Governo do Estado do Rio de Janeiro
Secretaria de Estado do Ambiente e Sustentabilidade - SEAS
Instituto Estadual do Ambiente - INEA
Diretoria de Recuperação Ambiental - DIRRAM

Projeto Executivo Pontes sobre Rio Bengalas

Ponte Estaca 179

Memorial Estrutural

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HYDRA ENG. E SANEAMENTO LTDA.

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1. DADOS DE OBRA

1.1. Normas consideradas

Aços laminados e soldados: ABNT NBR 8800:2008

1.2. Estados limites

E.L.U. Aço laminado	NBR 8800: 2008
Deslocamentos	Ações características

1.2.1. Situações de projeto

Para as distintas situações de projeto, as combinações de ações serão definidas de acordo com os seguintes critérios:

- **Situações permanentes ou transitórias**
  - **Com coeficientes de combinação**
  - **Sem coeficientes de combinação**
- **Combinações acidentais**
  - **Com coeficientes de combinação**
  - **Sem coeficientes de combinação**
- Onde:

G_k Ação permanente
P_k Ação de pré-tensão
Q_k Ação variável
A_d Ação acidental

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g_G Coeficiente parcial de segurança das ações permanentes
g_P Coeficiente parcial de segurança da ação de pré-tensão
$g_{Q,1}$ Coeficiente parcial de segurança da ação variável principal
$g_{Q,i}$ Coeficiente parcial de segurança das ações variáveis de acompanhamento
g_{Ad} Coeficiente parcial de segurança da ação acidental
$y_{p,1}$ Coeficiente de combinação da ação variável principal
$y_{a,i}$ Coeficiente de combinação das ações variáveis de acompanhamento

Para cada situação de projeto e estado limite, os coeficientes a utilizar serão:

E.L.U. Aço laminado: ABNT NBR 8800:2008

Normal				
	Coeficientes parciais de segurança (g)		Coeficientes de combinação (y)	
	Favorável	Desfavorável	Principal (y_p)	Acompanhamento (y_a)
Permanente (G)	1.000	1.500	-	-
Vento (Q)	0.000	1.400	1.000	0.600

Acidental				
	Coeficientes parciais de segurança (g)		Coeficientes de combinação (y)	
	Favorável	Desfavorável	Principal (y_p)	Acompanhamento (y_a)
Permanente (G)	1.000	1.300	-	-
Vento (Q)	0.000	1.000	0.000	0.000
Acidental (A)	1.000	1.000	-	-

Deslocamentos

Ações variáveis sem sismo		
	Coeficientes parciais de segurança (g)	
	Favorável	Desfavorável
Permanente (G)	1.000	1.000
Vento (Q)	0.000	1.000

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2. ESTRUTURA

2.1. Geometria

2.1.1. Nós

Referências:

D_x, D_y, D_z: Deslocamentos prescritos em eixos globais.

q_x, q_y, q_z: Rotações prescritas em eixos globais.

Ux, Uy, Uz: Vetor diretor da reta ou vetor normal ao plano de dependência

Cada grau de liberdade marca-se com 'X' se estiver restringido e, caso contrário, com '-'.

Nós														
Referência	Coordenadas			Vínculo c/ exterior										Vinculação interna
	X (m)	Y (m)	Z (m)	D_x	D_y	D_z	q_x	q_y	q_z	Dependências	Ux	Uy	Uz	
N1	0.000	0.000	0.500	X	X	X	-	-	-	-	-	-	-	Engastado
N2	5.260	-1.516	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N3	10.520	-3.032	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N4	15.780	-4.548	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N5	21.040	-6.064	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N6	26.300	-7.580	0.030	-	X	X	-	-	-	Reta	1.000	0.000	0.000	Engastado
N7	0.000	11.450	0.500	X	X	X	-	-	-	-	-	-	-	Engastado
N8	5.260	9.934	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N9	10.520	8.418	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N10	13.150	7.660	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N11	15.780	6.902	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N12	21.040	5.386	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N13	26.300	3.870	0.030	-	X	X	-	-	-	Reta	1.000	0.000	0.000	Engastado
N14	5.260	-1.516	6.980	-	-	-	-	-	-	-	-	-	-	Engastado
N15	10.520	-3.032	7.460	-	-	-	-	-	-	-	-	-	-	Engastado
N16	13.150	-3.790	7.556	-	-	-	-	-	-	-	-	-	-	Engastado
N17	15.780	-4.548	7.366	-	-	-	-	-	-	-	-	-	-	Engastado
N18	21.040	-6.064	6.698	-	-	-	-	-	-	-	-	-	-	Engastado
N19	5.260	9.934	6.980	-	-	-	-	-	-	-	-	-	-	Engastado
N20	10.520	8.418	7.460	-	-	-	-	-	-	-	-	-	-	Engastado

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Nós															
Referência	Coordenadas			Vínculo c/ exterior											Vinculação interna
	X (m)	Y (m)	Z (m)	D_x	D_y	D_z	q_x	q_y	q_z	Dependências	Ux	Uy	Uz	
N21	15.780	6.902	7.366	-	-	-	-	-	-	-	-	-	-	Engastado
N22	21.040	5.386	6.698	-	-	-	-	-	-	-	-	-	-	Engastado
N23	2.630	-0.758	6.740	-	-	-	-	-	-	-	-	-	-	Engastado
N24	2.630	-0.758	0.740	-	-	-	-	-	-	-	-	-	-	Engastado
N25	7.890	-2.274	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N26	7.890	-2.274	7.220	-	-	-	-	-	-	-	-	-	-	Engastado
N27	18.410	-5.306	7.032	-	-	-	-	-	-	-	-	-	-	Engastado
N28	18.410	-5.306	1.032	-	-	-	-	-	-	-	-	-	-	Engastado
N29	23.670	-6.822	0.364	-	-	-	-	-	-	-	-	-	-	Engastado
N30	23.670	-6.822	6.364	-	-	-	-	-	-	-	-	-	-	Engastado
N31	23.670	4.628	6.364	-	-	-	-	-	-	-	-	-	-	Engastado
N32	18.410	6.144	7.032	-	-	-	-	-	-	-	-	-	-	Engastado
N33	22.355	5.007	6.531	-	-	-	-	-	-	-	-	-	-	Engastado
N34	2.630	10.692	6.740	-	-	-	-	-	-	-	-	-	-	Engastado
N35	7.890	9.176	7.220	-	-	-	-	-	-	-	-	-	-	Engastado
N36	2.630	10.692	0.740	-	-	-	-	-	-	-	-	-	-	Engastado
N37	7.890	9.176	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N38	18.410	6.144	1.032	-	-	-	-	-	-	-	-	-	-	Engastado
N39	23.670	4.628	0.364	-	-	-	-	-	-	-	-	-	-	Engastado
N40	1.315	-0.379	6.620	-	-	-	-	-	-	-	-	-	-	Engastado
N41	1.315	11.071	6.620	-	-	-	-	-	-	-	-	-	-	Engastado
N42	3.945	10.313	6.860	-	-	-	-	-	-	-	-	-	-	Engastado
N43	3.945	-1.137	6.860	-	-	-	-	-	-	-	-	-	-	Engastado
N44	6.575	-1.895	7.100	-	-	-	-	-	-	-	-	-	-	Engastado
N45	6.575	9.555	7.100	-	-	-	-	-	-	-	-	-	-	Engastado
N46	9.205	-2.653	7.340	-	-	-	-	-	-	-	-	-	-	Engastado
N47	9.205	8.797	7.340	-	-	-	-	-	-	-	-	-	-	Engastado
N48	11.835	8.039	7.580	-	-	-	-	-	-	-	-	-	-	Engastado
N49	11.835	-3.411	7.580	-	-	-	-	-	-	-	-	-	-	Engastado
N50	14.465	7.281	7.533	-	-	-	-	-	-	-	-	-	-	Engastado
N51	14.465	-4.169	7.533	-	-	-	-	-	-	-	-	-	-	Engastado
N52	17.095	6.523	7.199	-	-	-	-	-	-	-	-	-	-	Engastado
N53	17.095	-4.927	7.199	-	-	-	-	-	-	-	-	-	-	Engastado

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Nós														
Referência	Coordenadas			Vínculo c/ exterior										Vinculação interna
	X (m)	Y (m)	Z (m)	D_x	D_y	D_z	q_x	q_y	q_z	Dependências	Ux	Uy	Uz	
N54	19.725	5.765	6.865	-	-	-	-	-	-	-	-	-	-	Engastado
N55	19.725	-5.685	6.865	-	-	-	-	-	-	-	-	-	-	Engastado
N56	24.985	4.249	6.197	-	-	-	-	-	-	-	-	-	-	Engastado
N57	24.985	-7.201	6.197	-	-	-	-	-	-	-	-	-	-	Engastado
N58	22.355	-6.443	6.531	-	-	-	-	-	-	-	-	-	-	Engastado
N59	1.315	-0.379	0.620	-	-	-	-	-	-	-	-	-	-	Engastado
N60	3.945	-1.137	0.860	-	-	-	-	-	-	-	-	-	-	Engastado
N61	6.575	-1.895	1.100	-	-	-	-	-	-	-	-	-	-	Engastado
N62	9.205	-2.653	1.340	-	-	-	-	-	-	-	-	-	-	Engastado
N63	17.095	-4.927	1.199	-	-	-	-	-	-	-	-	-	-	Engastado
N64	19.725	-5.685	0.865	-	-	-	-	-	-	-	-	-	-	Engastado
N65	22.355	-6.443	0.531	-	-	-	-	-	-	-	-	-	-	Engastado
N66	24.985	-7.201	0.197	-	-	-	-	-	-	-	-	-	-	Engastado
N67	24.985	4.249	0.197	-	-	-	-	-	-	-	-	-	-	Engastado
N68	22.355	5.007	0.531	-	-	-	-	-	-	-	-	-	-	Engastado
N69	19.725	5.765	0.865	-	-	-	-	-	-	-	-	-	-	Engastado
N70	17.095	6.523	1.199	-	-	-	-	-	-	-	-	-	-	Engastado
N71	14.465	7.281	1.390	-	-	-	-	-	-	-	-	-	-	Engastado
N72	11.835	8.039	1.437	-	-	-	-	-	-	-	-	-	-	Engastado
N73	9.205	8.797	1.340	-	-	-	-	-	-	-	-	-	-	Engastado
N74	6.575	9.555	1.100	-	-	-	-	-	-	-	-	-	-	Engastado
N75	3.945	10.313	0.860	-	-	-	-	-	-	-	-	-	-	Engastado
N76	1.315	11.071	0.620	-	-	-	-	-	-	-	-	-	-	Engastado
N77	0.000	5.725	0.500	-	-	-	-	-	-	-	-	-	-	Engastado
N78	2.630	4.967	0.740	-	-	-	-	-	-	-	-	-	-	Engastado
N79	5.260	4.209	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N80	7.890	3.451	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N81	10.520	2.693	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N82	13.150	1.935	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N83	15.780	1.177	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N84	18.410	0.419	1.032	-	-	-	-	-	-	-	-	-	-	Engastado
N85	21.040	-0.339	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N86	23.670	-1.097	0.364	-	-	-	-	-	-	-	-	-	-	Engastado

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Nós														
Referência	Coordenadas			Vínculo c/ exterior										Vinculação interna
	X (m)	Y (m)	Z (m)	D_x	D_y	D_z	q_x	q_y	q_z	Dependências	Ux	Uy	Uz	
N87	26.300	-1.855	0.030	-	-	-	-	-	-	-	-	-	-	Engastado
N88	1.315	5.346	6.620	-	-	-	-	-	-	-	-	-	-	Engastado
N89	3.945	4.588	6.860	-	-	-	-	-	-	-	-	-	-	Engastado
N90	6.575	3.830	7.100	-	-	-	-	-	-	-	-	-	-	Engastado
N91	9.205	3.072	7.340	-	-	-	-	-	-	-	-	-	-	Engastado
N92	11.835	2.314	7.580	-	-	-	-	-	-	-	-	-	-	Engastado
N93	14.465	1.556	7.533	-	-	-	-	-	-	-	-	-	-	Engastado
N94	17.095	0.798	7.199	-	-	-	-	-	-	-	-	-	-	Engastado
N95	19.725	0.040	6.865	-	-	-	-	-	-	-	-	-	-	Engastado
N96	24.985	-1.476	6.197	-	-	-	-	-	-	-	-	-	-	Engastado
N97	22.355	-0.718	6.531	-	-	-	-	-	-	-	-	-	-	Engastado
N98	26.300	-6.080	0.030	-	-	-	-	-	-	-	-	-	-	Engastado
N99	26.300	-5.680	0.030	-	-	-	-	-	-	-	-	-	-	Engastado
N100	26.300	-2.680	0.030	-	-	-	-	-	-	-	-	-	-	Engastado
N101	26.300	2.370	0.030	-	-	-	-	-	-	-	-	-	-	Engastado
N102	26.300	1.970	0.030	-	-	-	-	-	-	-	-	-	-	Engastado
N103	26.300	-1.030	0.030	-	-	-	-	-	-	-	-	-	-	Engastado
N104	23.670	-5.322	0.364	-	-	-	-	-	-	-	-	-	-	Engastado
N105	23.670	-4.922	0.364	-	-	-	-	-	-	-	-	-	-	Engastado
N106	23.670	-1.922	0.364	-	-	-	-	-	-	-	-	-	-	Engastado
N107	23.670	3.128	0.364	-	-	-	-	-	-	-	-	-	-	Engastado
N108	23.670	2.728	0.364	-	-	-	-	-	-	-	-	-	-	Engastado
N109	23.670	-0.272	0.364	-	-	-	-	-	-	-	-	-	-	Engastado
N110	21.040	-4.564	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N111	21.040	-4.164	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N112	21.040	-1.164	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N113	21.040	3.886	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N114	21.040	3.486	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N115	21.040	0.486	0.698	-	-	-	-	-	-	-	-	-	-	Engastado
N116	18.410	-3.806	1.032	-	-	-	-	-	-	-	-	-	-	Engastado
N117	18.410	-3.406	1.032	-	-	-	-	-	-	-	-	-	-	Engastado
N118	18.410	-0.406	1.032	-	-	-	-	-	-	-	-	-	-	Engastado
N119	18.410	4.644	1.032	-	-	-	-	-	-	-	-	-	-	Engastado

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Nós														
Referência	Coordenadas			Vínculo c/ exterior										Vinculação interna
	X (m)	Y (m)	Z (m)	D_x	D_y	D_z	q_x	q_y	q_z	Dependências	Ux	Uy	Uz	
N120	18.410	4.244	1.032	-	-	-	-	-	-	-	-	-	-	Engastado
N121	18.410	1.244	1.032	-	-	-	-	-	-	-	-	-	-	Engastado
N122	15.780	-3.048	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N123	15.780	-2.648	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N124	15.780	0.352	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N125	15.780	5.402	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N126	15.780	5.002	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N127	15.780	2.002	1.366	-	-	-	-	-	-	-	-	-	-	Engastado
N128	13.150	-2.290	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N129	13.150	-1.890	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N130	13.150	1.110	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N131	13.150	6.160	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N132	13.150	5.760	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N133	13.150	2.760	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N134	10.520	-1.532	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N135	10.520	-1.132	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N136	10.520	1.868	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N137	10.520	6.918	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N138	10.520	6.518	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N139	10.520	3.518	1.460	-	-	-	-	-	-	-	-	-	-	Engastado
N140	7.890	-0.774	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N141	7.890	-0.374	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N142	7.890	2.626	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N143	7.890	7.676	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N144	7.890	7.276	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N145	7.890	4.276	1.220	-	-	-	-	-	-	-	-	-	-	Engastado
N146	5.260	-0.016	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N147	5.260	0.384	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N148	5.260	3.384	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N149	5.260	8.434	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N150	5.260	8.034	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N151	5.260	5.034	0.980	-	-	-	-	-	-	-	-	-	-	Engastado
N152	2.630	0.742	0.740	-	-	-	-	-	-	-	-	-	-	Engastado

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Nós														
Referência	Coordenadas			Vínculo c/ exterior										Vinculação interna
	X (m)	Y (m)	Z (m)	D_x	D_y	D_z	q_x	q_y	q_z	Dependências	Ux	Uy	Uz	
N153	2.630	1.142	0.740	-	-	-	-	-	-	-	-	-	-	Engastado
N154	2.630	4.142	0.740	-	-	-	-	-	-	-	-	-	-	Engastado
N155	2.630	9.192	0.740	-	-	-	-	-	-	-	-	-	-	Engastado
N156	2.630	8.792	0.740	-	-	-	-	-	-	-	-	-	-	Engastado
N157	2.630	5.792	0.740	-	-	-	-	-	-	-	-	-	-	Engastado
N158	0.000	1.500	0.500	-	-	-	-	-	-	-	-	-	-	Engastado
N159	0.000	1.900	0.500	-	-	-	-	-	-	-	-	-	-	Engastado
N160	0.000	4.900	0.500	-	-	-	-	-	-	-	-	-	-	Engastado
N161	0.000	9.950	0.500	-	-	-	-	-	-	-	-	-	-	Engastado
N162	0.000	9.550	0.500	-	-	-	-	-	-	-	-	-	-	Engastado
N163	0.000	6.550	0.500	-	-	-	-	-	-	-	-	-	-	Engastado
N164	13.150	-3.790	1.413	-	-	-	-	-	-	-	-	-	-	Engastado
N165	11.835	-3.411	1.437	-	-	-	-	-	-	-	-	-	-	Engastado
N166	14.465	-4.169	1.390	-	-	-	-	-	-	-	-	-	-	Engastado
N167	11.835	2.314	1.437	-	-	-	-	-	-	-	-	-	-	Engastado
N168	14.465	1.556	1.390	-	-	-	-	-	-	-	-	-	-	Engastado
N169	13.150	7.660	7.556	-	-	-	-	-	-	-	-	-	-	Engastado
N170	1.554	-0.448	6.642	-	-	-	-	-	-	-	-	-	-	Engastado
N171	3.706	-1.068	6.838	-	-	-	-	-	-	-	-	-	-	Engastado
N172	4.184	-1.206	6.882	-	-	-	-	-	-	-	-	-	-	Engastado
N173	6.336	-1.826	7.078	-	-	-	-	-	-	-	-	-	-	Engastado
N174	6.814	-1.964	7.122	-	-	-	-	-	-	-	-	-	-	Engastado
N175	9.444	-2.722	7.362	-	-	-	-	-	-	-	-	-	-	Engastado
N176	8.966	-2.584	7.318	-	-	-	-	-	-	-	-	-	-	Engastado
N177	12.075	-3.480	7.576	-	-	-	-	-	-	-	-	-	-	Engastado
N178	11.596	-3.342	7.558	-	-	-	-	-	-	-	-	-	-	Engastado
N179	14.225	-4.100	7.537	-	-	-	-	-	-	-	-	-	-	Engastado
N180	14.703	-4.238	7.503	-	-	-	-	-	-	-	-	-	-	Engastado
N181	16.857	-4.858	7.229	-	-	-	-	-	-	-	-	-	-	Engastado
N182	17.333	-4.996	7.169	-	-	-	-	-	-	-	-	-	-	Engastado
N183	19.487	-5.616	6.895	-	-	-	-	-	-	-	-	-	-	Engastado
N184	19.963	-5.754	6.835	-	-	-	-	-	-	-	-	-	-	Engastado
N185	22.117	-6.374	6.561	-	-	-	-	-	-	-	-	-	-	Engastado

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Nós															
Referência	Coordenadas			Vínculo c/ exterior											Vinculação interna
	X (m)	Y (m)	Z (m)	D_x	D_y	D_z	q_x	q_y	q_z	Dependências	Ux	Uy	Uz	
N186	22.593	-6.512	6.501	-	-	-	-	-	-	-	-	-	-	Engastado
N187	24.747	-7.132	6.227	-	-	-	-	-	-	-	-	-	-	Engastado
N188	2.391	-0.689	0.718	-	-	-	-	-	-	-	-	-	-	Engastado
N189	2.869	-0.827	0.762	-	-	-	-	-	-	-	-	-	-	Engastado
N190	5.021	-1.447	0.958	-	-	-	-	-	-	-	-	-	-	Engastado
N191	5.499	-1.585	1.002	-	-	-	-	-	-	-	-	-	-	Engastado
N192	7.651	-2.205	1.198	-	-	-	-	-	-	-	-	-	-	Engastado
N193	8.129	-2.343	1.242	-	-	-	-	-	-	-	-	-	-	Engastado
N194	10.281	-2.963	1.438	-	-	-	-	-	-	-	-	-	-	Engastado
N195	10.760	-3.101	1.456	-	-	-	-	-	-	-	-	-	-	Engastado
N196	12.910	-3.721	1.417	-	-	-	-	-	-	-	-	-	-	Engastado
N197	13.390	-3.859	1.409	-	-	-	-	-	-	-	-	-	-	Engastado
N198	15.540	-4.479	1.370	-	-	-	-	-	-	-	-	-	-	Engastado
N199	16.018	-4.617	1.336	-	-	-	-	-	-	-	-	-	-	Engastado
N200	18.172	-5.237	1.062	-	-	-	-	-	-	-	-	-	-	Engastado
N201	18.648	-5.375	1.002	-	-	-	-	-	-	-	-	-	-	Engastado
N202	20.802	-5.995	0.728	-	-	-	-	-	-	-	-	-	-	Engastado
N203	21.278	-6.133	0.668	-	-	-	-	-	-	-	-	-	-	Engastado
N204	23.432	-6.753	0.394	-	-	-	-	-	-	-	-	-	-	Engastado
N205	23.908	-6.891	0.334	-	-	-	-	-	-	-	-	-	-	Engastado
N206	2.391	10.761	0.718	-	-	-	-	-	-	-	-	-	-	Engastado
N207	2.869	10.623	0.762	-	-	-	-	-	-	-	-	-	-	Engastado
N208	5.021	10.003	0.958	-	-	-	-	-	-	-	-	-	-	Engastado
N209	5.499	9.865	1.002	-	-	-	-	-	-	-	-	-	-	Engastado
N210	7.651	9.245	1.198	-	-	-	-	-	-	-	-	-	-	Engastado
N211	8.129	9.107	1.242	-	-	-	-	-	-	-	-	-	-	Engastado
N212	10.281	8.487	1.438	-	-	-	-	-	-	-	-	-	-	Engastado
N213	10.760	8.349	1.456	-	-	-	-	-	-	-	-	-	-	Engastado
N214	12.910	7.729	1.417	-	-	-	-	-	-	-	-	-	-	Engastado
N215	13.390	7.591	1.409	-	-	-	-	-	-	-	-	-	-	Engastado
N216	15.540	6.971	1.370	-	-	-	-	-	-	-	-	-	-	Engastado
N217	16.018	6.833	1.336	-	-	-	-	-	-	-	-	-	-	Engastado
N218	18.172	6.213	1.062	-	-	-	-	-	-	-	-	-	-	Engastado

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Nós														
Referência	Coordenadas			Vínculo c/ exterior										Vinculação interna
	X (m)	Y (m)	Z (m)	D_x	D_y	D_z	q_x	q_y	q_z	Dependências	Ux	Uy	Uz	
N219	18.648	6.075	1.002	-	-	-	-	-	-	-	-	-	-	Engastado
N220	20.802	5.455	0.728	-	-	-	-	-	-	-	-	-	-	Engastado
N221	21.278	5.317	0.668	-	-	-	-	-	-	-	-	-	-	Engastado
N222	23.432	4.697	0.394	-	-	-	-	-	-	-	-	-	-	Engastado
N223	23.908	4.559	0.334	-	-	-	-	-	-	-	-	-	-	Engastado
N224	24.747	4.318	6.227	-	-	-	-	-	-	-	-	-	-	Engastado
N225	22.593	4.938	6.501	-	-	-	-	-	-	-	-	-	-	Engastado
N226	22.117	5.076	6.561	-	-	-	-	-	-	-	-	-	-	Engastado
N227	19.963	5.696	6.835	-	-	-	-	-	-	-	-	-	-	Engastado
N228	19.487	5.834	6.895	-	-	-	-	-	-	-	-	-	-	Engastado
N229	17.333	6.454	7.169	-	-	-	-	-	-	-	-	-	-	Engastado
N230	16.857	6.592	7.229	-	-	-	-	-	-	-	-	-	-	Engastado
N231	14.703	7.212	7.503	-	-	-	-	-	-	-	-	-	-	Engastado
N232	14.225	7.350	7.537	-	-	-	-	-	-	-	-	-	-	Engastado
N233	12.075	7.970	7.576	-	-	-	-	-	-	-	-	-	-	Engastado
N234	11.596	8.108	7.558	-	-	-	-	-	-	-	-	-	-	Engastado
N235	9.444	8.728	7.362	-	-	-	-	-	-	-	-	-	-	Engastado
N236	8.966	8.866	7.318	-	-	-	-	-	-	-	-	-	-	Engastado
N237	6.814	9.486	7.122	-	-	-	-	-	-	-	-	-	-	Engastado
N238	6.336	9.624	7.078	-	-	-	-	-	-	-	-	-	-	Engastado
N239	4.184	10.244	6.882	-	-	-	-	-	-	-	-	-	-	Engastado
N240	3.706	10.382	6.838	-	-	-	-	-	-	-	-	-	-	Engastado
N241	1.554	11.002	6.642	-	-	-	-	-	-	-	-	-	-	Engastado

2.1.2. Barras

2.1.2.1. Materiais utilizados

Materiais utilizados							
Material		E (MPa)	n	G (MPa)	f_y (MPa)	$a_{\cdot t}$ (m/m°C)	g (kN/m³)
Tipo	Designação						
Aço laminado	A-588 345MPa	200000.00	0.300	77000.00	345.00	0.000012	77.01
	A-572 345MPa	200000.00	0.300	77000.00	345.00	0.000012	77.01

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Materiais utilizados							
Material		E (MPa)	n	G (MPa)	f_y (MPa)	$a_{\cdot t}$ (m/m°C)	g (kN/m³)
Tipo	Designação						

Notação:
E: Módulo de elasticidade
n: Módulo de poisson
G: Módulo de corte
f_y: Limite elástico
a_t: Coeficiente de dilatação
g: Peso específico

2.1.2.2. Descrição

Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
Aço laminado	A-588 345MPa	N1/N40	N1/N40	CVS 500x314 (CVS)	6.271	1.00	1.00	6.271	6.271
		N188/N170	N188/N170	CVS 500x314 (CVS)	5.987	1.00	1.00	5.987	5.987
		N189/N171	N189/N171	CVS 400x103 (CVS)	6.138	1.00	1.00	6.138	6.138
		N190/N172	N190/N172	CVS 400x103 (CVS)	5.987	1.00	1.00	5.987	5.987
		N191/N173	N191/N173	CVS 400x103 (CVS)	6.138	1.00	1.00	6.138	6.138
		N192/N174	N192/N174	CVS 400x103 (CVS)	5.987	1.00	1.00	5.987	5.987
		N193/N176	N193/N176	CVS 400x103 (CVS)	6.138	1.00	1.00	6.138	6.138
		N194/N175	N194/N175	CVS 400x103 (CVS)	5.987	1.00	1.00	5.987	5.987
		N195/N178	N195/N178	CVS 400x103 (CVS)	6.164	1.00	1.00	6.164	6.164
		N196/N177	N196/N177	CVS 400x103 (CVS)	6.219	1.00	1.00	6.219	6.219
		N197/N179	N197/N179	CVS 400x103 (CVS)	6.190	1.00	1.00	6.190	6.190
		N198/N180	N198/N180	CVS 400x103 (CVS)	6.194	1.00	1.00	6.194	6.194
		N199/N181	N199/N181	CVS 400x103 (CVS)	5.958	1.00	1.00	5.958	5.958
		N200/N182	N200/N182	CVS 400x103 (CVS)	6.168	1.00	1.00	6.168	6.168
		N201/N183	N201/N183	CVS 400x103 (CVS)	5.958	1.00	1.00	5.958	5.958
		N202/N184	N202/N184	CVS 400x103 (CVS)	6.168	1.00	1.00	6.168	6.168
		N203/N185	N203/N185	CVS 400x103 (CVS)	5.958	1.00	1.00	5.958	5.958
		N204/N186	N204/N186	CVS 400x103 (CVS)	6.168	1.00	1.00	6.168	6.168
		N205/N187	N205/N187	CVS 500x314 (CVS)	5.958	1.00	1.00	5.958	5.958
		N6/N57	N6/N57	CVS 500x314 (CVS)	6.317	1.00	1.00	6.317	6.317
		N216/N231	N216/N231	CVS 400x103 (CVS)	6.194	1.00	1.00	6.194	6.194
		N217/N230	N217/N230	CVS 400x103 (CVS)	5.958	1.00	1.00	5.958	5.958
		N218/N229	N218/N229	CVS 400x103 (CVS)	6.168	1.00	1.00	6.168	6.168

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N219/N228	N219/N228	CVS 400x103 (CVS)	5.958	1.00	1.00	5.958	5.958
		N220/N227	N220/N227	CVS 400x103 (CVS)	6.168	1.00	1.00	6.168	6.168
		N221/N226	N221/N226	CVS 400x103 (CVS)	5.958	1.00	1.00	5.958	5.958
		N222/N225	N222/N225	CVS 400x103 (CVS)	6.168	1.00	1.00	6.168	6.168
		N223/N224	N223/N224	CVS 500x314 (CVS)	5.958	1.00	1.00	5.958	5.958
		N13/N56	N13/N56	CVS 500x314 (CVS)	6.317	1.00	1.00	6.317	6.317
		N7/N41	N7/N41	CVS 500x314 (CVS)	6.271	1.00	1.00	6.271	6.271
		N206/N241	N206/N241	CVS 500x314 (CVS)	5.987	1.00	1.00	5.987	5.987
		N207/N240	N207/N240	CVS 400x103 (CVS)	6.138	1.00	1.00	6.138	6.138
		N208/N239	N208/N239	CVS 400x103 (CVS)	5.987	1.00	1.00	5.987	5.987
		N209/N238	N209/N238	CVS 400x103 (CVS)	6.138	1.00	1.00	6.138	6.138
		N210/N237	N210/N237	CVS 400x103 (CVS)	5.987	1.00	1.00	5.987	5.987
		N211/N236	N211/N236	CVS 400x103 (CVS)	6.138	1.00	1.00	6.138	6.138
		N212/N235	N212/N235	CVS 400x103 (CVS)	5.987	1.00	1.00	5.987	5.987
		N213/N234	N213/N234	CVS 400x103 (CVS)	6.164	1.00	1.00	6.164	6.164
		N214/N233	N214/N233	CVS 400x103 (CVS)	6.219	1.00	1.00	6.219	6.219
		N215/N232	N215/N232	CVS 400x103 (CVS)	6.190	1.00	1.00	6.190	6.190
		N1/N158	N1/N7	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N158/N159	N1/N7	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N159/N160	N1/N7	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N160/N77	N1/N7	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N77/N163	N1/N7	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N163/N162	N1/N7	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N162/N161	N1/N7	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N161/N7	N1/N7	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N24/N152	N24/N36	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N152/N153	N24/N36	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N153/N154	N24/N36	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N154/N78	N24/N36	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N78/N157	N24/N36	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N157/N156	N24/N36	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N156/N155	N24/N36	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N155/N36	N24/N36	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N2/N146	N2/N8	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N146/N147	N2/N8	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N147/N148	N2/N8	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N148/N79	N2/N8	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N79/N151	N2/N8	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N151/N150	N2/N8	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N150/N149	N2/N8	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N149/N8	N2/N8	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N25/N140	N25/N37	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N140/N141	N25/N37	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N141/N142	N25/N37	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N142/N80	N25/N37	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N80/N145	N25/N37	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N145/N144	N25/N37	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N144/N143	N25/N37	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N143/N37	N25/N37	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N3/N134	N3/N9	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N134/N135	N3/N9	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N135/N136	N3/N9	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N136/N81	N3/N9	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N81/N139	N3/N9	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N139/N138	N3/N9	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N138/N137	N3/N9	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N137/N9	N3/N9	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N164/N128	N164/N10	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N128/N129	N164/N10	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N129/N130	N164/N10	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N130/N82	N164/N10	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N82/N133	N164/N10	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N133/N132	N164/N10	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N132/N131	N164/N10	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N131/N10	N164/N10	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N4/N122	N4/N11	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N122/N123	N4/N11	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N123/N124	N4/N11	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N124/N83	N4/N11	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N83/N127	N4/N11	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N127/N126	N4/N11	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N126/N125	N4/N11	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N125/N11	N4/N11	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N28/N116	N28/N38	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N116/N117	N28/N38	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N117/N118	N28/N38	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N118/N84	N28/N38	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N84/N121	N28/N38	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N121/N120	N28/N38	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N120/N119	N28/N38	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N119/N38	N28/N38	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N5/N110	N5/N12	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N110/N111	N5/N12	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N111/N112	N5/N12	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N112/N85	N5/N12	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N85/N115	N5/N12	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N115/N114	N5/N12	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N114/N113	N5/N12	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N113/N12	N5/N12	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N29/N104	N29/N39	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N104/N105	N29/N39	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N105/N106	N29/N39	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N106/N86	N29/N39	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N86/N109	N29/N39	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N109/N108	N29/N39	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N108/N107	N29/N39	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N107/N39	N29/N39	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N6/N98	N6/N13	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N98/N99	N6/N13	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N99/N100	N6/N13	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N100/N87	N6/N13	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825
		N87/N103	N6/N13	CVS 600x210 (CVS)	0.825	1.00	1.00	0.825	0.825

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N103/N102	N6/N13	CVS 600x210 (CVS)	3.000	1.00	1.00	3.000	3.000
		N102/N101	N6/N13	CVS 600x210 (CVS)	0.400	1.00	1.00	0.400	0.400
		N101/N13	N6/N13	CVS 600x210 (CVS)	1.500	1.00	1.00	1.500	1.500
		N77/N78	N77/N78	VS 200x19 (VS)	2.748	1.00	1.00	2.748	2.748
		N78/N79	N78/N79	VS 200x19 (VS)	2.748	1.00	1.00	2.748	2.748
		N79/N80	N79/N80	VS 200x19 (VS)	2.748	1.00	1.00	2.748	2.748
		N80/N81	N80/N81	VS 200x19 (VS)	2.748	1.00	1.00	2.748	2.748
		N84/N83	N84/N83	VS 200x19 (VS)	2.757	1.00	1.00	2.757	2.757
		N85/N84	N85/N84	VS 200x19 (VS)	2.757	1.00	1.00	2.757	2.757
		N86/N85	N86/N85	VS 200x19 (VS)	2.757	1.00	1.00	2.757	2.757
		N87/N86	N87/N86	VS 200x19 (VS)	2.757	1.00	1.00	2.757	2.757
		N40/N88	N40/N41	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N88/N41	N40/N41	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N43/N89	N43/N42	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N89/N42	N43/N42	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N44/N90	N44/N45	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N90/N45	N44/N45	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N46/N91	N46/N47	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N91/N47	N46/N47	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N49/N92	N49/N48	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N92/N48	N49/N48	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N51/N93	N51/N50	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N93/N50	N51/N50	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N53/N94	N53/N52	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N94/N52	N53/N52	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N55/N95	N55/N54	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N95/N54	N55/N54	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N57/N96	N57/N56	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N96/N56	N57/N56	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N88/N89	N88/N89	VS 200x19 (VS)	2.748	1.00	1.00	2.748	2.748
		N89/N90	N89/N90	VS 200x19 (VS)	2.748	1.00	1.00	2.748	2.748
		N90/N91	N90/N91	VS 200x19 (VS)	2.748	1.00	1.00	2.748	2.748
		N91/N92	N91/N92	VS 200x19 (VS)	2.748	1.00	1.00	2.748	2.748
		N94/N93	N94/N93	VS 200x19 (VS)	2.757	1.00	1.00	2.757	2.757

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N95/N94	N95/N94	VS 200x19 (VS)	2.757	1.00	1.00	2.757	2.757
		N58/N97	N58/N33	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N97/N33	N58/N33	CVS 400x116 (CVS)	5.725	1.00	1.00	5.725	5.725
		N93/N92	N93/N92	VS 200x19 (VS)	2.737	1.00	1.00	2.737	2.737
		N4/N198	N4/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N198/N166	N4/N3	CVS 600x367 (CVS)	1.119	1.00	1.00	1.119	1.119
		N166/N197	N4/N3	CVS 600x367 (CVS)	1.119	1.00	1.00	1.119	1.119
		N197/N164	N4/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N164/N196	N4/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N196/N165	N4/N3	CVS 600x367 (CVS)	1.119	1.00	1.00	1.119	1.119
		N165/N195	N4/N3	CVS 600x367 (CVS)	1.119	1.00	1.00	1.119	1.119
		N195/N3	N4/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N11/N216	N11/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N216/N71	N11/N9	CVS 600x367 (CVS)	1.119	1.00	1.00	1.119	1.119
		N71/N215	N11/N9	CVS 600x367 (CVS)	1.119	1.00	1.00	1.119	1.119
		N215/N10	N11/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N10/N214	N11/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N214/N72	N11/N9	CVS 600x367 (CVS)	1.119	1.00	1.00	1.119	1.119
		N72/N213	N11/N9	CVS 600x367 (CVS)	1.119	1.00	1.00	1.119	1.119
		N213/N9	N11/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N82/N167	N82/N81	VS 200x19 (VS)	1.369	1.00	1.00	1.369	1.369
		N167/N81	N82/N81	VS 200x19 (VS)	1.369	1.00	1.00	1.369	1.369
		N83/N168	N83/N82	VS 200x19 (VS)	1.369	1.00	1.00	1.369	1.369
		N168/N82	N83/N82	VS 200x19 (VS)	1.369	1.00	1.00	1.369	1.369
		N13/N67	N13/N11	CVS 600x367 (CVS)	1.379	1.00	1.00	1.379	1.379
		N67/N223	N13/N11	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N223/N39	N13/N11	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N39/N222	N13/N11	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N222/N68	N13/N11	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N68/N221	N13/N11	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N221/N12	N13/N11	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N12/N220	N13/N11	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N220/N69	N13/N11	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N69/N219	N13/N11	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129

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HYDRA ENG. E SANEAMENTO LTDA.

Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N219/N38	N13/N11	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N38/N218	N13/N11	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N218/N70	N13/N11	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N70/N217	N13/N11	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N217/N11	N13/N11	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N7/N76	N7/N9	CVS 600x367 (CVS)	1.374	1.00	1.00	1.374	1.374
		N76/N206	N7/N9	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N206/N36	N7/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N36/N207	N7/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N207/N75	N7/N9	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N75/N208	N7/N9	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N208/N8	N7/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N8/N209	N7/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N209/N74	N7/N9	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N74/N210	N7/N9	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N210/N37	N7/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N37/N211	N7/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N211/N73	N7/N9	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N73/N212	N7/N9	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N212/N9	N7/N9	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N1/N59	N1/N3	CVS 600x367 (CVS)	1.374	1.00	1.00	1.374	1.374
		N59/N188	N1/N3	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N188/N24	N1/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N24/N189	N1/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N189/N60	N1/N3	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N60/N190	N1/N3	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N190/N2	N1/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N2/N191	N1/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N191/N61	N1/N3	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N61/N192	N1/N3	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N192/N25	N1/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N25/N193	N1/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N193/N62	N1/N3	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N62/N194	N1/N3	CVS 600x367 (CVS)	1.124	1.00	1.00	1.124	1.124

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N194/N3	N1/N3	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N6/N66	N6/N4	CVS 600x367 (CVS)	1.379	1.00	1.00	1.379	1.379
		N66/N205	N6/N4	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N205/N29	N6/N4	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N29/N204	N6/N4	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N204/N65	N6/N4	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N65/N203	N6/N4	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N203/N5	N6/N4	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N5/N202	N6/N4	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N202/N64	N6/N4	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N64/N201	N6/N4	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N201/N28	N6/N4	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N28/N200	N6/N4	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N200/N63	N6/N4	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N63/N199	N6/N4	CVS 600x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N199/N4	N6/N4	CVS 600x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N43/N172	N43/N49	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N172/N14	N43/N49	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N14/N173	N43/N49	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N173/N44	N43/N49	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N44/N174	N43/N49	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N174/N26	N43/N49	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N26/N176	N43/N49	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N176/N46	N43/N49	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N46/N175	N43/N49	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N175/N15	N43/N49	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N15/N178	N43/N49	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N178/N49	N43/N49	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N40/N170	N40/N43	CVS 550x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N170/N23	N40/N43	CVS 550x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N23/N171	N40/N43	CVS 550x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N171/N43	N40/N43	CVS 550x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N41/N241	N41/N42	CVS 550x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N241/N34	N41/N42	CVS 550x367 (CVS)	1.124	1.00	1.00	1.124	1.124

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Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N34/N240	N41/N42	CVS 550x367 (CVS)	1.124	1.00	1.00	1.124	1.124
		N240/N42	N41/N42	CVS 550x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N42/N239	N42/N48	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N239/N19	N42/N48	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N19/N238	N42/N48	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N238/N45	N42/N48	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N45/N237	N42/N48	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N237/N35	N42/N48	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N35/N236	N42/N48	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N236/N47	N42/N48	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N47/N235	N42/N48	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N235/N20	N42/N48	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N20/N234	N42/N48	CVS 550x245 (CVS)	1.124	1.00	1.00	1.124	1.124
		N234/N48	N42/N48	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N33/N226	N33/N50	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N226/N22	N33/N50	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N22/N227	N33/N50	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N227/N54	N33/N50	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N54/N228	N33/N50	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N228/N32	N33/N50	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N32/N229	N33/N50	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N229/N52	N33/N50	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N52/N230	N33/N50	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N230/N21	N33/N50	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N21/N231	N33/N50	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N231/N50	N33/N50	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N56/N224	N56/N33	CVS 550x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N224/N31	N56/N33	CVS 550x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N31/N225	N56/N33	CVS 550x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N225/N33	N56/N33	CVS 550x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N58/N185	N58/N51	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N185/N18	N58/N51	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N18/N184	N58/N51	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N184/N55	N58/N51	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N55/N183	N58/N51	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N183/N27	N58/N51	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N27/N182	N58/N51	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N182/N53	N58/N51	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N53/N181	N58/N51	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N181/N17	N58/N51	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N17/N180	N58/N51	CVS 550x245 (CVS)	1.129	1.00	1.00	1.129	1.129
		N180/N51	N58/N51	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N57/N187	N57/N58	CVS 550x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N187/N30	N57/N58	CVS 550x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N30/N186	N57/N58	CVS 550x367 (CVS)	1.129	1.00	1.00	1.129	1.129
		N186/N58	N57/N58	CVS 550x367 (CVS)	0.250	1.00	1.00	0.250	0.250
		N51/N179	N51/N49	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N179/N16	N51/N49	CVS 550x245 (CVS)	1.119	1.00	1.00	1.119	1.119
		N16/N177	N51/N49	CVS 550x245 (CVS)	1.119	1.00	1.00	1.119	1.119
		N177/N49	N51/N49	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N50/N232	N50/N48	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N232/N169	N50/N48	CVS 550x245 (CVS)	1.119	1.00	1.00	1.119	1.119
		N169/N233	N50/N48	CVS 550x245 (CVS)	1.119	1.00	1.00	1.119	1.119
		N233/N48	N50/N48	CVS 550x245 (CVS)	0.250	1.00	1.00	0.250	0.250
		N96/N97	N96/N97	VS 200x19 (VS)	2.757	1.00	1.00	2.757	2.757
		N97/N95	N97/N95	VS 200x19 (VS)	2.757	1.00	1.00	2.757	2.757
	A-572 345MPa	N57/N97	N57/N97	L 110 x 110 x 10 (L)	7.004	0.00	0.00	-	-
		N56/N97	N56/N97	L 110 x 110 x 10 (L)	5.630	0.00	0.00	-	-
		N58/N95	N58/N95	L 110 x 110 x 10 (L)	7.004	0.00	0.00	-	-
		N33/N95	N33/N95	L 110 x 110 x 10 (L)	5.630	0.00	0.00	-	-
		N55/N94	N55/N94	L 110 x 110 x 10 (L)	7.004	0.00	0.00	-	-
		N54/N94	N54/N94	L 110 x 110 x 10 (L)	5.630	0.00	0.00	-	-
		N53/N93	N53/N93	L 110 x 110 x 10 (L)	7.004	0.00	0.00	-	-
		N52/N93	N52/N93	L 110 x 110 x 10 (L)	5.630	0.00	0.00	-	-
		N41/N89	N41/N89	L 110 x 110 x 10 (L)	7.000	0.00	0.00	-	-
		N40/N89	N40/N89	L 110 x 110 x 10 (L)	5.625	0.00	0.00	-	-
		N42/N90	N42/N90	L 110 x 110 x 10 (L)	7.000	0.00	0.00	-	-
		N43/N90	N43/N90	L 110 x 110 x 10 (L)	5.625	0.00	0.00	-	-

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N47/N92	N47/N92	L 110 x 110 x 10 (L)	7.000	0.00	0.00	-	-
		N46/N92	N46/N92	L 110 x 110 x 10 (L)	5.625	0.00	0.00	-	-
		N93/N49	N93/N49	L 110 x 110 x 10 (L)	5.621	0.00	0.00	-	-
		N93/N48	N93/N48	L 110 x 110 x 10 (L)	6.996	0.00	0.00	-	-
		N45/N91	N45/N91	L 110 x 110 x 10 (L)	7.000	0.00	0.00	-	-
		N44/N91	N44/N91	L 110 x 110 x 10 (L)	5.625	0.00	0.00	-	-
		N88/N42	N88/N42	L 110 x 110 x 10 (L)	5.625	0.00	0.00	-	-
		N88/N43	N88/N43	L 110 x 110 x 10 (L)	7.000	0.00	0.00	-	-
		N89/N45	N89/N45	L 110 x 110 x 10 (L)	5.625	0.00	0.00	-	-
		N89/N44	N89/N44	L 110 x 110 x 10 (L)	7.000	0.00	0.00	-	-
		N90/N47	N90/N47	L 110 x 110 x 10 (L)	5.625	0.00	0.00	-	-
		N90/N46	N90/N46	L 110 x 110 x 10 (L)	7.000	0.00	0.00	-	-
		N91/N48	N91/N48	L 110 x 110 x 10 (L)	5.625	0.00	0.00	-	-
		N91/N49	N91/N49	L 110 x 110 x 10 (L)	7.000	0.00	0.00	-	-
		N50/N92	N50/N92	L 110 x 110 x 10 (L)	5.621	0.00	0.00	-	-
		N51/N92	N51/N92	L 110 x 110 x 10 (L)	6.996	0.00	0.00	-	-
		N94/N50	N94/N50	L 110 x 110 x 10 (L)	7.004	0.00	0.00	-	-
		N94/N51	N94/N51	L 110 x 110 x 10 (L)	5.630	0.00	0.00	-	-
		N95/N52	N95/N52	L 110 x 110 x 10 (L)	7.004	0.00	0.00	-	-
		N95/N53	N95/N53	L 110 x 110 x 10 (L)	5.630	0.00	0.00	-	-
		N97/N54	N97/N54	L 110 x 110 x 10 (L)	7.004	0.00	0.00	-	-
		N97/N55	N97/N55	L 110 x 110 x 10 (L)	5.630	0.00	0.00	-	-
		N96/N33	N96/N33	L 110 x 110 x 10 (L)	7.004	0.00	0.00	-	-
		N96/N58	N96/N58	L 110 x 110 x 10 (L)	5.630	0.00	0.00	-	-
		N79/N37	N79/N37	L 110 x 110 x 6 (L)	5.625	0.00	0.00	-	-
		N79/N25	N79/N25	L 110 x 110 x 6 (L)	7.000	0.00	0.00	-	-
		N78/N8	N78/N8	L 110 x 110 x 6 (L)	5.625	0.00	0.00	-	-
		N80/N9	N80/N9	L 110 x 110 x 6 (L)	5.625	0.00	0.00	-	-
		N78/N2	N78/N2	L 110 x 110 x 6 (L)	7.000	0.00	0.00	-	-
		N80/N3	N80/N3	L 110 x 110 x 6 (L)	7.000	0.00	0.00	-	-
		N84/N11	N84/N11	L 110 x 110 x 6 (L)	7.004	0.00	0.00	-	-
		N86/N12	N86/N12	L 110 x 110 x 6 (L)	7.004	0.00	0.00	-	-
		N85/N38	N85/N38	L 110 x 110 x 6 (L)	7.004	0.00	0.00	-	-
		N84/N4	N84/N4	L 110 x 110 x 6 (L)	5.630	0.00	0.00	-	-

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Descrição									
Material		Barra (Ni/Nf)	Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	b_{xy}	b_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designação								
		N86/N5	N86/N5	L 110 x 110 x 6 (L)	5.630	0.00	0.00	-	-
		N85/N28	N85/N28	L 110 x 110 x 6 (L)	5.630	0.00	0.00	-	-
		N4/N82	N4/N82	L 300 x 300 x 28 (L)	6.996	0.00	0.00	-	-
		N82/N3	N82/N3	L 300 x 300 x 28 (L)	5.621	0.00	0.00	-	-
		N11/N82	N11/N82	L 300 x 300 x 28 (L)	5.621	0.00	0.00	-	-
		N82/N9	N82/N9	L 300 x 300 x 28 (L)	6.996	0.00	0.00	-	-

Notação:
Ni: Nó inicial
Nf: Nó final
b_{xy}: Coeficiente de flambagem no plano 'XY'
b_{xz}: Coeficiente de flambagem no plano 'XZ'
$Lb_{Sup.}$: Espaçamento entre travamentos do banzo superior
$Lb_{Inf.}$: Espaçamento entre travamentos do banzo inferior

2.1.2.3. Características mecânicas

Tipos de peça	
Ref.	Peças
1	N1/N40, N188/N170, N205/N187, N6/N57, N223/N224, N13/N56, N7/N41 e N206/N241
2	N189/N171, N190/N172, N191/N173, N192/N174, N193/N176, N194/N175, N195/N178, N196/N177, N197/N179, N198/N180, N199/N181, N200/N182, N201/N183, N202/N184, N203/N185, N204/N186, N216/N231, N217/N230, N218/N229, N219/N228, N220/N227, N221/N226, N222/N225, N207/N240, N208/N239, N209/N238, N210/N237, N211/N236, N212/N235, N213/N234, N214/N233 e N215/N232
3	N1/N7, N24/N36, N2/N8, N25/N37, N3/N9, N164/N10, N4/N11, N28/N38, N5/N12, N29/N39 e N6/N13
4	N77/N78, N78/N79, N79/N80, N80/N81, N84/N83, N85/N84, N86/N85, N87/N86, N88/N89, N89/N90, N90/N91, N91/N92, N94/N93, N95/N94, N93/N92, N82/N81, N83/N82, N96/N97 e N97/N95
5	N40/N41, N43/N42, N44/N45, N46/N47, N49/N48, N51/N50, N53/N52, N55/N54, N57/N56 e N58/N33
6	N4/N3, N11/N9, N13/N11, N7/N9, N1/N3 e N6/N4
7	N43/N49, N42/N48, N33/N50, N58/N51, N51/N49 e N50/N48
8	N40/N43, N41/N42, N56/N33 e N57/N58
9	N57/N97, N56/N97, N58/N95, N33/N95, N55/N94, N54/N94, N53/N93, N52/N93, N41/N89, N40/N89, N42/N90, N43/N90, N47/N92, N46/N92, N93/N49, N93/N48, N45/N91, N44/N91, N88/N42, N88/N43, N89/N45, N89/N44, N90/N47, N90/N46, N91/N48, N91/N49, N50/N92, N51/N92, N94/N50, N94/N51, N95/N52, N95/N53, N97/N54, N97/N55, N96/N33 e N96/N58
10	N79/N37, N79/N25, N78/N8, N80/N9, N78/N2, N80/N3, N84/N11, N86/N12, N85/N38, N84/N4, N86/N5 e N85/N28
11	N4/N82, N82/N3, N11/N82 e N82/N9

Características mecânicas								
Material	Ref.	Descrição	A	Avy	Avz	Iyy	Izz	It

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Tipo	Designação			(cm²)	(cm²)	(cm²)	(cm4)	(cm4)	(cm4)
Aço laminado	A-588 345MPa	1	CVS 500x314, (CVS)	400.29	231.00	83.06	173662.07	31480.26	2141.98
		2	CVS 400x103, (CVS)	130.96	72.00	31.46	39355.27	7202.63	92.44
		3	CVS 600x210, (CVS)	268.03	134.40	79.95	172355.98	23912.28	375.52
		4	VS 200x19, (VS)	24.02	11.34	8.01	1679.25	181.61	2.67
		5	CVS 400x116, (CVS)	148.39	85.50	30.95	45160.68	8552.59	147.53
		6	CVS 600x367, (CVS) Espaç. entre enrijecedores: 500 mm. Espessura: 1 mm	466.69	264.00	103.22	297661.55	46981.29	2463.39
		7	CVS 550x245, (CVS) Espaç. entre enrijecedores: 500 mm. Espessura: 10 mm	312.00	150.00	100.80	161250.00	26713.50	603.99
		8	CVS 550x367, (CVS) Espaç. entre enrijecedores: 500 mm. Espessura: 10 mm	467.50	264.00	103.95	246423.56	46993.49	2512.20
	A-572 345MPa	9	L 110 x 110 x 10, (L)	21.20	10.00	10.00	238.00	238.00	7.00
		10	L 110 x 110 x 6, (L)	13.00	6.24	6.24	149.50	149.50	1.54
		11	L 300 x 300 x 28, (L)	159.10	76.16	76.16	13450.00	13450.00	418.55

Notação:
Ref.: Referência
A: Área da seção transversal
Avy: Área de esforço cortante da seção segundo o eixo local 'Y'
Avz: Área de esforço cortante da seção segundo o eixo local 'Z'
Iyy: Inércia da seção em torno do eixo local 'Y'
Izz: Inércia da seção em torno do eixo local 'Z'
It: Inércia à torção
As características mecânicas das peças correspondem à seção no ponto médio das mesmas.

2.1.2.4. Tabela de ferro

Tabela de ferro						
Material		Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	Volume (m³)	Peso (kg)
Tipo	Designação					
Aço laminado	A-588 345MPa	N1/N40	CVS 500x314 (CVS)	6.271	0.251	1970.56
		N188/N170	CVS 500x314 (CVS)	5.987	0.240	1881.36
		N189/N171	CVS 400x103 (CVS)	6.138	0.080	631.04
		N190/N172	CVS 400x103 (CVS)	5.987	0.078	615.51
		N191/N173	CVS 400x103 (CVS)	6.138	0.080	631.04
		N192/N174	CVS 400x103 (CVS)	5.987	0.078	615.51
		N193/N176	CVS 400x103 (CVS)	6.138	0.080	631.04
		N194/N175	CVS 400x103 (CVS)	5.987	0.078	615.51
		N195/N178	CVS 400x103 (CVS)	6.164	0.081	633.69
		N196/N177	CVS 400x103 (CVS)	6.219	0.081	639.37
		N197/N179	CVS 400x103 (CVS)	6.190	0.081	636.34
		N198/N180	CVS 400x103 (CVS)	6.194	0.081	636.75
		N199/N181	CVS 400x103 (CVS)	5.958	0.078	612.48
		N200/N182	CVS 400x103 (CVS)	6.168	0.081	634.13
		N201/N183	CVS 400x103 (CVS)	5.958	0.078	612.48
		N202/N184	CVS 400x103 (CVS)	6.168	0.081	634.13

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Tabela de ferro

Material		Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	Volume (m^3)	Peso (kg)
Tipo	Designação					
		N203/N185	CVS 400x103 (CVS)	5.958	0.078	612.48
		N204/N186	CVS 400x103 (CVS)	6.168	0.081	634.13
		N205/N187	CVS 500x314 (CVS)	5.958	0.238	1872.08
		N6/N57	CVS 500x314 (CVS)	6.317	0.253	1984.97
		N216/N231	CVS 400x103 (CVS)	6.194	0.081	636.75
		N217/N230	CVS 400x103 (CVS)	5.958	0.078	612.48
		N218/N229	CVS 400x103 (CVS)	6.168	0.081	634.13
		N219/N228	CVS 400x103 (CVS)	5.958	0.078	612.48
		N220/N227	CVS 400x103 (CVS)	6.168	0.081	634.13
		N221/N226	CVS 400x103 (CVS)	5.958	0.078	612.48
		N222/N225	CVS 400x103 (CVS)	6.168	0.081	634.13
		N223/N224	CVS 500x314 (CVS)	5.958	0.238	1872.08
		N13/N56	CVS 500x314 (CVS)	6.317	0.253	1984.97
		N7/N41	CVS 500x314 (CVS)	6.271	0.251	1970.56
		N206/N241	CVS 500x314 (CVS)	5.987	0.240	1881.36
		N207/N240	CVS 400x103 (CVS)	6.138	0.080	631.04
		N208/N239	CVS 400x103 (CVS)	5.987	0.078	615.51
		N209/N238	CVS 400x103 (CVS)	6.138	0.080	631.04
		N210/N237	CVS 400x103 (CVS)	5.987	0.078	615.51
		N211/N236	CVS 400x103 (CVS)	6.138	0.080	631.04
		N212/N235	CVS 400x103 (CVS)	5.987	0.078	615.51
		N213/N234	CVS 400x103 (CVS)	6.164	0.081	633.69
		N214/N233	CVS 400x103 (CVS)	6.219	0.081	639.37
		N215/N232	CVS 400x103 (CVS)	6.190	0.081	636.34
		N1/N7	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N24/N36	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N2/N8	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N25/N37	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N3/N9	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N164/N10	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N4/N11	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N28/N38	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N5/N12	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N29/N39	CVS 600x210 (CVS)	11.450	0.307	2409.14

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Tabela de ferro						
Material		Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	Volume (m^3)	Peso (kg)
Tipo	Designação					
		N6/N13	CVS 600x210 (CVS)	11.450	0.307	2409.14
		N77/N78	VS 200x19 (VS)	2.748	0.007	51.81
		N78/N79	VS 200x19 (VS)	2.748	0.007	51.81
		N79/N80	VS 200x19 (VS)	2.748	0.007	51.81
		N80/N81	VS 200x19 (VS)	2.748	0.007	51.81
		N84/N83	VS 200x19 (VS)	2.757	0.007	52.00
		N85/N84	VS 200x19 (VS)	2.757	0.007	52.00
		N86/N85	VS 200x19 (VS)	2.757	0.007	52.00
		N87/N86	VS 200x19 (VS)	2.757	0.007	52.00
		N40/N41	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N43/N42	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N44/N45	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N46/N47	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N49/N48	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N51/N50	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N53/N52	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N55/N54	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N57/N56	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N88/N89	VS 200x19 (VS)	2.748	0.007	51.81
		N89/N90	VS 200x19 (VS)	2.748	0.007	51.81
		N90/N91	VS 200x19 (VS)	2.748	0.007	51.81
		N91/N92	VS 200x19 (VS)	2.748	0.007	51.81
		N94/N93	VS 200x19 (VS)	2.757	0.007	52.00
		N95/N94	VS 200x19 (VS)	2.757	0.007	52.00
		N58/N33	CVS 400x116 (CVS)	11.450	0.170	1333.77
		N93/N92	VS 200x19 (VS)	2.737	0.007	51.62
		N4/N3	CVS 600x367 (CVS)	5.475	0.256	2005.74
		N11/N9	CVS 600x367 (CVS)	5.475	0.256	2005.74
		N82/N81	VS 200x19 (VS)	2.737	0.007	51.62
		N83/N82	VS 200x19 (VS)	2.737	0.007	51.62
		N13/N11	CVS 600x367 (CVS)	11.029	0.515	4040.63
		N7/N9	CVS 600x367 (CVS)	10.990	0.513	4026.27
		N1/N3	CVS 600x367 (CVS)	10.990	0.513	4026.27
		N6/N4	CVS 600x367 (CVS)	11.029	0.515	4040.63

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Tabela de ferro						
Material		Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	Volume (m^3)	Peso (kg)
Tipo	Designação					
		N43/N49	CVS 550x245 (CVS)	8.243	0.257	2018.79
		N40/N43	CVS 550x367 (CVS)	2.748	0.128	1008.32
		N41/N42	CVS 550x367 (CVS)	2.748	0.128	1008.32
		N42/N48	CVS 550x245 (CVS)	8.243	0.257	2018.79
		N33/N50	CVS 550x245 (CVS)	8.272	0.258	2026.00
		N56/N33	CVS 550x367 (CVS)	2.757	0.129	1011.92
		N58/N51	CVS 550x245 (CVS)	8.272	0.258	2026.00
		N57/N58	CVS 550x367 (CVS)	2.757	0.129	1011.92
		N51/N49	CVS 550x245 (CVS)	2.737	0.085	670.46
		N50/N48	CVS 550x245 (CVS)	2.737	0.085	670.46
		N96/N97	VS 200x19 (VS)	2.757	0.007	52.00
		N97/N95	VS 200x19 (VS)	2.757	0.007	52.00
	A-572 345MPa	N57/N97	L 110 x 110 x 10 (L)	7.004	0.015	116.56
		N56/N97	L 110 x 110 x 10 (L)	5.630	0.012	93.70
		N58/N95	L 110 x 110 x 10 (L)	7.004	0.015	116.56
		N33/N95	L 110 x 110 x 10 (L)	5.630	0.012	93.70
		N55/N94	L 110 x 110 x 10 (L)	7.004	0.015	116.56
		N54/N94	L 110 x 110 x 10 (L)	5.630	0.012	93.70
		N53/N93	L 110 x 110 x 10 (L)	7.004	0.015	116.56
		N52/N93	L 110 x 110 x 10 (L)	5.630	0.012	93.70
		N41/N89	L 110 x 110 x 10 (L)	7.000	0.015	116.50
		N40/N89	L 110 x 110 x 10 (L)	5.625	0.012	93.62
		N42/N90	L 110 x 110 x 10 (L)	7.000	0.015	116.50
		N43/N90	L 110 x 110 x 10 (L)	5.625	0.012	93.62
		N47/N92	L 110 x 110 x 10 (L)	7.000	0.015	116.50
		N46/N92	L 110 x 110 x 10 (L)	5.625	0.012	93.62
		N93/N49	L 110 x 110 x 10 (L)	5.621	0.012	93.54
		N93/N48	L 110 x 110 x 10 (L)	6.996	0.015	116.43
		N45/N91	L 110 x 110 x 10 (L)	7.000	0.015	116.50
		N44/N91	L 110 x 110 x 10 (L)	5.625	0.012	93.62
		N88/N42	L 110 x 110 x 10 (L)	5.625	0.012	93.62
		N88/N43	L 110 x 110 x 10 (L)	7.000	0.015	116.50
		N89/N45	L 110 x 110 x 10 (L)	5.625	0.012	93.62
		N89/N44	L 110 x 110 x 10 (L)	7.000	0.015	116.50

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Tabela de ferro

Material		Peça (Ni/Nf)	Perfil(Série)	Comprimento (m)	Volume (m^3)	Peso (kg)
Tipo	Designação					
		N90/N47	L 110 x 110 x 10 (L)	5.625	0.012	93.62
		N90/N46	L 110 x 110 x 10 (L)	7.000	0.015	116.50
		N91/N48	L 110 x 110 x 10 (L)	5.625	0.012	93.62
		N91/N49	L 110 x 110 x 10 (L)	7.000	0.015	116.50
		N50/N92	L 110 x 110 x 10 (L)	5.621	0.012	93.54
		N51/N92	L 110 x 110 x 10 (L)	6.996	0.015	116.43
		N94/N50	L 110 x 110 x 10 (L)	7.004	0.015	116.56
		N94/N51	L 110 x 110 x 10 (L)	5.630	0.012	93.70
		N95/N52	L 110 x 110 x 10 (L)	7.004	0.015	116.56
		N95/N53	L 110 x 110 x 10 (L)	5.630	0.012	93.70
		N97/N54	L 110 x 110 x 10 (L)	7.004	0.015	116.56
		N97/N55	L 110 x 110 x 10 (L)	5.630	0.012	93.70
		N96/N33	L 110 x 110 x 10 (L)	7.004	0.015	116.56
		N96/N58	L 110 x 110 x 10 (L)	5.630	0.012	93.70
		N79/N37	L 110 x 110 x 6 (L)	5.625	0.007	57.41
		N79/N25	L 110 x 110 x 6 (L)	7.000	0.009	71.44
		N78/N8	L 110 x 110 x 6 (L)	5.625	0.007	57.41
		N80/N9	L 110 x 110 x 6 (L)	5.625	0.007	57.41
		N78/N2	L 110 x 110 x 6 (L)	7.000	0.009	71.44
		N80/N3	L 110 x 110 x 6 (L)	7.000	0.009	71.44
		N84/N11	L 110 x 110 x 6 (L)	7.004	0.009	71.48
		N86/N12	L 110 x 110 x 6 (L)	7.004	0.009	71.48
		N85/N38	L 110 x 110 x 6 (L)	7.004	0.009	71.48
		N84/N4	L 110 x 110 x 6 (L)	5.630	0.007	57.46
		N86/N5	L 110 x 110 x 6 (L)	5.630	0.007	57.46
		N85/N28	L 110 x 110 x 6 (L)	5.630	0.007	57.46
		N4/N82	L 300 x 300 x 28 (L)	6.996	0.111	873.79
		N82/N3	L 300 x 300 x 28 (L)	5.621	0.089	701.97
		N11/N82	L 300 x 300 x 28 (L)	5.621	0.089	701.97
		N82/N9	L 300 x 300 x 28 (L)	6.996	0.111	873.79

Notação:
Ni: Nó inicial
Nf: Nó final

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2.1.2.5. Tabela resumo

Tabela resumo												
Material		Série	Perfil	Comprimento			Volume			Peso		
Tipo	Designação			Perfil (m)	Série (m)	Material (m)	Perfil (m³)	Série (m³)	Material (m³)	Perfil (kg)	Série (kg)	Material (kg)
			CVS 500x314	49.066			1.964			15417.95		
			CVS 400x103	195.045			2.554			20051.35		
			CVS 600x210	125.950			3.376			26500.52		
			CVS 400x116	114.500			1.699			13337.66		
			CVS 600x367	54.989			2.566			20145.27		
			CVS 550x245	38.504			1.201			9430.50		
			CVS 550x367	11.010			0.515			4040.47		
		CVS			589.065			13.876			108923.73	
			VS 200x19	52.252			0.126			985.30		
		VS			52.252			0.126			985.30	
	A-588 345MPa					641.317			14.001			109909.03
			L 110 x 110 x 10	227.314			0.482			3782.96		
			L 110 x 110 x 6	75.780			0.099			773.34		
			L 300 x 300 x 28	25.234			0.401			3151.52		
		L			328.328			0.982			7707.82	
	A-572 345MPa					328.328			0.982			7707.82
Aço laminado						969.645			14.983			117616.85

2.1.2.6. Quantitativos de superfícies

Aço laminado: Quantitativos das superfícies a pintar				
Série	Perfil	Superfície unitária (m²/m)	Comprimento (m)	Superfície (m²)
CVS	CVS 500x314	2.355	49.066	115.561
	CVS 400x103	1.981	195.045	386.385
	CVS 600x210	2.768	125.950	348.630
	CVS 400x116	1.981	114.500	226.825
	CVS 600x367	3.603	10.950	39.449
	CVS 600x367	3.597	22.059	79.336
	CVS 600x367	3.564	21.980	78.347
	CVS 550x245	3.480	16.485	57.365
	CVS 550x367	3.533	5.495	19.413
	CVS 550x245	3.477	16.544	57.522
	CVS 550x367	3.530	5.515	19.465
	CVS 550x245	3.621	5.475	19.823
VS	VS 200x19	0.871	52.252	45.485

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Aço laminado: Quantitativos das superfícies a pintar				
Série	Perfil	Superfície unitária (m²/m)	Comprimento (m)	Superfície (m²)
L	L 110 x 110 x 10	0.440	227.314	100.018
	L 110 x 110 x 6	0.440	75.780	33.343
	L 300 x 300 x 28	1.200	25.234	30.280
			Total	**1657.248**

2.2. Resultados

2.2.1. Barras

2.2.1.1. Esforços

Referências:

N: Esforço axial (kN)
Vy: Esforço cortante segundo o eixo local Y da barra. (kN)
Vz: Esforço cortante segundo o eixo local Z da barra. (kN)
Mt: Momento torsor (kN·m)
My: Momento fletor no plano 'XZ' (rotação da seção em relação ao eixo local 'Y' da barra). (kN·m)
Mz: Momento fletor no plano 'XY' (rotação da seção em relação ao eixo local 'Z' da barra). (kN·m)

2.2.1.1.1. Hipótese

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
N1/N40	Peso próprio	N	-300.910	-298.552	-296.193	-293.835	-291.477	-289.119	-286.761	-284.403	-282.044
		Vy	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140
		Vz	11.378	11.905	12.432	12.960	13.487	14.014	14.542	15.069	15.596
		Mt	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		My	54.46	45.34	35.80	25.85	15.48	4.70	-6.49	-18.10	-30.11
		Mz	-0.65	-0.55	-0.44	-0.33	-0.22	-0.11	0.00	0.11	0.22
	Guarda Corpo	N	-77.034	-77.034	-77.034	-77.034	-77.034	-77.034	-77.034	-77.034	-77.034
		Vy	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vz	3.509	3.509	3.509	3.509	3.509	3.509	3.509	3.509	3.509
		Mt	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		My	14.49	11.74	8.99	6.24	3.49	0.74	-2.01	-4.76	-7.51
		Mz	-0.39	-0.35	-0.30	-0.26	-0.21	-0.17	-0.13	-0.08	-0.04
	Laje	N	-572.207	-572.207	-572.207	-572.207	-572.207	-572.207	-572.207	-572.207	-572.207
		Vy	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408
		Vz	26.027	26.027	26.027	26.027	26.027	26.027	26.027	26.027	26.027
		Mt	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
		My	107.47	87.07	66.67	46.26	25.86	5.46	-14.94	-35.34	-55.75

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
		Mz	-2.86	-2.54	-2.22	-1.90	-1.58	-1.26	-0.94	-0.62	-0.30
	Pavimentação	N	-313.639	-313.639	-313.639	-313.639	-313.639	-313.639	-313.639	-313.639	-313.639
		Vy	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223
		Vz	14.264	14.264	14.264	14.264	14.264	14.264	14.264	14.264	14.264
		Mt	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		My	58.88	47.70	36.52	25.34	14.16	2.98	-8.21	-19.39	-30.57
		Mz	-1.56	-1.38	-1.21	-1.04	-0.86	-0.69	-0.51	-0.34	-0.16
	Recapeamento	N	-141.975	-141.975	-141.975	-141.975	-141.975	-141.975	-141.975	-141.975	-141.975
		Vy	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101
		Vz	6.457	6.457	6.457	6.457	6.457	6.457	6.457	6.457	6.457
		Mt	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
		My	26.66	21.60	16.54	11.48	6.42	1.35	-3.71	-8.77	-13.83
		Mz	-0.71	-0.63	-0.55	-0.47	-0.39	-0.31	-0.23	-0.15	-0.07
	Vento 0	N	28.566	28.566	28.566	28.566	28.566	28.566	28.566	28.566	28.566
		Vy	2.528	2.528	2.528	2.528	2.528	2.528	2.528	2.528	2.528
		Vz	-0.875	-0.875	-0.875	-0.875	-0.875	-0.875	-0.875	-0.875	-0.875
		Mt	-4.51	-4.51	-4.51	-4.51	-4.51	-4.51	-4.51	-4.51	-4.51
		My	-3.36	-2.67	-1.99	-1.30	-0.62	0.07	0.75	1.44	2.13
		Mz	11.30	9.32	7.34	5.36	3.38	1.39	-0.59	-2.57	-4.55
	Vento 180	N	-28.784	-28.827	-28.869	-28.912	-28.955	-28.997	-29.040	-29.082	-29.125
		Vy	-5.283	-4.605	-3.927	-3.249	-2.572	-1.894	-1.216	-0.538	0.140
		Vz	0.212	0.403	0.593	0.784	0.975	1.165	1.356	1.547	1.737
		Mt	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54
		My	3.35	3.11	2.72	2.18	1.49	0.65	-0.34	-1.48	-2.76
		Mz	-11.04	-7.16	-3.82	-1.01	1.27	3.02	4.24	4.93	5.09
	Multidão (Passeio)	N	-99.930	-99.930	-99.930	-99.930	-99.930	-99.930	-99.930	-99.930	-99.930
		Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vz	4.560	4.560	4.560	4.560	4.560	4.560	4.560	4.560	4.560
		Mt	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		My	18.84	15.26	11.69	8.11	4.54	0.96	-2.61	-6.18	-9.76
		Mz	-0.51	-0.46	-0.40	-0.34	-0.28	-0.22	-0.17	-0.11	-0.05
	Multidão - TB450	N	-326.410	-326.410	-326.410	-326.410	-326.410	-326.410	-326.410	-326.410	-326.410
		Vy	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228
		Vz	14.825	14.825	14.825	14.825	14.825	14.825	14.825	14.825	14.825
		Mt	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
		My	61.20	49.58	37.96	26.34	14.72	3.10	-8.52	-20.15	-31.77
		Mz	-1.61	-1.43	-1.25	-1.07	-0.89	-0.71	-0.53	-0.35	-0.18
	TB-450-A1	N	-68.849	-68.849	-68.849	-68.849	-68.849	-68.849	-68.849	-68.849	-68.849
		Vy	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209	-0.209

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
		Vz	3.488	3.488	3.488	3.488	3.488	3.488	3.488	3.488	3.488
		Mt	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
		My	16.56	13.82	11.09	8.35	5.62	2.88	0.15	-2.59	-5.32
		Mz	-1.51	-1.35	-1.19	-1.02	-0.86	-0.69	-0.53	-0.37	-0.20
	TB-450-A2	N	-163.025	-163.025	-163.025	-163.025	-163.025	-163.025	-163.025	-163.025	-163.025
		Vy	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471
		Vz	8.294	8.294	8.294	8.294	8.294	8.294	8.294	8.294	8.294
		Mt	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
		My	39.38	32.88	26.38	19.88	13.37	6.87	0.37	-6.13	-12.63
		Mz	-2.94	-2.57	-2.20	-1.83	-1.46	-1.09	-0.73	-0.36	0.01
	TB-450-B1	N	-83.420	-83.420	-83.420	-83.420	-83.420	-83.420	-83.420	-83.420	-83.420
		Vy	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vz	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440
		Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
		My	13.31	10.61	7.92	5.22	2.52	-0.17	-2.87	-5.56	-8.26
		Mz	0.17	0.13	0.09	0.05	0.01	-0.03	-0.07	-0.12	-0.16
	TB-450-B2	N	-197.218	-197.218	-197.218	-197.218	-197.218	-197.218	-197.218	-197.218	-197.218
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	8.719	8.719	8.719	8.719	8.719	8.719	8.719	8.719	8.719
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	34.25	27.41	20.58	13.74	6.91	0.07	-6.76	-13.60	-20.43
		Mz	-0.18	-0.15	-0.11	-0.08	-0.05	-0.01	0.02	0.05	0.09
	TB-450-C1	N	-142.296	-142.296	-142.296	-142.296	-142.296	-142.296	-142.296	-142.296	-142.296
		Vy	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057
		Vz	6.496	6.496	6.496	6.496	6.496	6.496	6.496	6.496	6.496
		Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
		My	25.20	20.10	15.01	9.92	4.83	-0.26	-5.36	-10.45	-15.54
		Mz	-0.24	-0.19	-0.15	-0.10	-0.06	-0.01	0.03	0.08	0.12
	TB-450-C2	N	-60.453	-60.453	-60.453	-60.453	-60.453	-60.453	-60.453	-60.453	-60.453
		Vy	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
		Vz	2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370
		Mt	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
		My	8.87	7.01	5.15	3.29	1.43	-0.42	-2.28	-4.14	-6.00
		Mz	0.28	0.22	0.16	0.10	0.04	-0.02	-0.08	-0.14	-0.20
	TB-450-D1	N	-36.364	-36.364	-36.364	-36.364	-36.364	-36.364	-36.364	-36.364	-36.364
		Vy	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
		Vz	1.377	1.377	1.377	1.377	1.377	1.377	1.377	1.377	1.377
		Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
		My	5.10	4.02	2.94	1.86	0.78	-0.30	-1.38	-2.46	-3.54

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
		Mz	0.22	0.17	0.13	0.08	0.04	0.00	-0.05	-0.09	-0.14
	TB-450-D2	N	-85.871	-85.871	-85.871	-85.871	-85.871	-85.871	-85.871	-85.871	-85.871
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	3.989	3.989	3.989	3.989	3.989	3.989	3.989	3.989	3.989
		Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
		My	15.52	12.39	9.26	6.13	3.01	-0.12	-3.25	-6.37	-9.50
		Mz	-0.21	-0.17	-0.14	-0.10	-0.07	-0.03	0.01	0.04	0.08
	TB-450-E1	N	-10.800	-10.800	-10.800	-10.800	-10.800	-10.800	-10.800	-10.800	-10.800
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	1.37	1.07	0.77	0.48	0.18	-0.11	-0.41	-0.71	-1.00
		Mz	0.09	0.08	0.06	0.04	0.02	0.00	-0.02	-0.04	-0.05
	TB-450-E2	N	-29.631	-29.631	-29.631	-29.631	-29.631	-29.631	-29.631	-29.631	-29.631
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	1.384	1.384	1.384	1.384	1.384	1.384	1.384	1.384	1.384
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	5.39	4.30	3.22	2.13	1.05	-0.04	-1.12	-2.20	-3.29
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.01	0.00	0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N188/N170	Peso próprio	N	199.227	201.509	203.792	206.074	208.357	210.639	212.922	215.204	217.487
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-19.366	-19.030	-18.695	-18.360	-18.024	-17.689	-17.353	-17.018	-16.683
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-66.68	-52.31	-38.20	-24.33	-10.71	2.65	15.76	28.62	41.24
		Mz	-0.01	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08	-0.10	-0.11
	Guarda Corpo	N	63.220	63.220	63.220	63.220	63.220	63.220	63.220	63.220	63.220
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-5.230	-5.230	-5.230	-5.230	-5.230	-5.230	-5.230	-5.230	-5.230
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-18.91	-15.00	-11.08	-7.17	-3.26	0.66	4.57	8.49	12.40
		Mz	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03
	Laje	N	469.618	469.618	469.618	469.618	469.618	469.618	469.618	469.618	469.618
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	-38.853	-38.853	-38.853	-38.853	-38.853	-38.853	-38.853	-38.853	-38.853
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		My	-140.49	-111.41	-82.33	-53.26	-24.18	4.90	33.98	63.06	92.13
		Mz	-0.05	-0.07	-0.09	-0.11	-0.13	-0.15	-0.17	-0.19	-0.21
	Pavimentação	N	257.428	257.428	257.428	257.428	257.428	257.428	257.428	257.428	257.428
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-21.316	-21.316	-21.316	-21.316	-21.316	-21.316	-21.316	-21.316	-21.316
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-77.07	-61.11	-45.16	-29.21	-13.26	2.70	18.65	34.60	50.56
		Mz	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08	-0.09	-0.10	-0.12
	Recapeamento	N	116.522	116.522	116.522	116.522	116.522	116.522	116.522	116.522	116.522
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-9.641	-9.641	-9.641	-9.641	-9.641	-9.641	-9.641	-9.641	-9.641
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-34.86	-27.64	-20.43	-13.21	-6.00	1.22	8.43	15.65	22.86
		Mz	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05
	Vento 0	N	-23.882	-23.882	-23.882	-23.882	-23.882	-23.882	-23.882	-23.882	-23.882
		Vy	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
		Vz	2.099	2.099	2.099	2.099	2.099	2.099	2.099	2.099	2.099
		Mt	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41
		My	7.46	5.89	4.32	2.75	1.18	-0.39	-1.96	-3.53	-5.10
		Mz	-1.07	-1.34	-1.61	-1.88	-2.15	-2.42	-2.69	-2.96	-3.23
	Vento 180	N	23.423	23.450	23.477	23.504	23.531	23.558	23.585	23.612	23.639
		Vy	2.055	1.408	0.761	0.113	-0.534	-1.181	-1.828	-2.476	-3.123
		Vz	-1.328	-1.513	-1.697	-1.882	-2.066	-2.251	-2.435	-2.620	-2.804
		Mt	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
		My	-6.91	-5.84	-4.64	-3.30	-1.83	-0.21	1.54	3.43	5.46
		Mz	-0.92	-2.22	-3.03	-3.36	-3.20	-2.56	-1.43	0.18	2.27
	Multidão (Passeio)	N	82.004	82.004	82.004	82.004	82.004	82.004	82.004	82.004	82.004
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-6.783	-6.783	-6.783	-6.783	-6.783	-6.783	-6.783	-6.783	-6.783
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.53	-19.46	-14.38	-9.30	-4.23	0.85	5.93	11.00	16.08
		Mz	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04
	Multidão - TB450	N	267.906	267.906	267.906	267.906	267.906	267.906	267.906	267.906	267.906
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-22.169	-22.169	-22.169	-22.169	-22.169	-22.169	-22.169	-22.169	-22.169
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-80.15	-63.56	-46.97	-30.38	-13.79	2.80	19.40	35.99	52.58
		Mz	-0.03	-0.04	-0.05	-0.07	-0.08	-0.09	-0.10	-0.11	-0.12
	TB-450-A1	N	55.263	55.263	55.263	55.263	55.263	55.263	55.263	55.263	55.263

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-2.307	-2.307	-2.307	-2.307	-2.307	-2.307	-2.307	-2.307	-2.307
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-9.50	-7.78	-6.05	-4.32	-2.60	-0.87	0.86	2.58	4.31
		Mz	-0.06	-0.08	-0.11	-0.14	-0.17	-0.19	-0.22	-0.25	-0.28
	TB-450-A2	N	130.801	130.801	130.801	130.801	130.801	130.801	130.801	130.801	130.801
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-5.450	-5.450	-5.450	-5.450	-5.450	-5.450	-5.450	-5.450	-5.450
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-22.48	-18.40	-14.32	-10.24	-6.16	-2.08	2.00	6.07	10.15
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03
	TB-450-B1	N	68.244	68.244	68.244	68.244	68.244	68.244	68.244	68.244	68.244
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-6.518	-6.518	-6.518	-6.518	-6.518	-6.518	-6.518	-6.518	-6.518
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-23.08	-18.20	-13.32	-8.44	-3.56	1.31	6.19	11.07	15.95
		Mz	-0.04	-0.04	-0.05	-0.06	-0.06	-0.07	-0.08	-0.08	-0.09
	TB-450-B2	N	160.844	160.844	160.844	160.844	160.844	160.844	160.844	160.844	160.844
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	-15.299	-15.299	-15.299	-15.299	-15.299	-15.299	-15.299	-15.299	-15.299
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-54.36	-42.91	-31.46	-20.01	-8.56	2.89	14.34	25.79	37.24
		Mz	0.04	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.11
	TB-450-C1	N	118.641	118.641	118.641	118.641	118.641	118.641	118.641	118.641	118.641
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-11.623	-11.623	-11.623	-11.623	-11.623	-11.623	-11.623	-11.623	-11.623
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-41.16	-32.46	-23.76	-15.06	-6.37	2.33	11.03	19.73	28.43
		Mz	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13
	TB-450-C2	N	50.720	50.720	50.720	50.720	50.720	50.720	50.720	50.720	50.720
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-5.008	-5.008	-5.008	-5.008	-5.008	-5.008	-5.008	-5.008	-5.008
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-17.61	-13.86	-10.11	-6.36	-2.62	1.13	4.88	8.63	12.37
		Mz	-0.05	-0.06	-0.07	-0.08	-0.09	-0.10	-0.10	-0.11	-0.12
	TB-450-D1	N	30.577	30.577	30.577	30.577	30.577	30.577	30.577	30.577	30.577
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031	-3.031
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		My	-10.64	-8.37	-6.10	-3.83	-1.57	0.70	2.97	5.24	7.51
		Mz	-0.03	-0.04	-0.05	-0.05	-0.06	-0.07	-0.07	-0.08	-0.09
	TB-450-D2	N	71.601	71.601	71.601	71.601	71.601	71.601	71.601	71.601	71.601
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-7.022	-7.022	-7.022	-7.022	-7.022	-7.022	-7.022	-7.022	-7.022
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-24.89	-19.63	-14.37	-9.12	-3.86	1.39	6.65	11.90	17.16
		Mz	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08
	TB-450-E1	N	9.105	9.105	9.105	9.105	9.105	9.105	9.105	9.105	9.105
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.906	-0.906	-0.906	-0.906	-0.906	-0.906	-0.906	-0.906	-0.906
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-3.17	-2.49	-1.81	-1.14	-0.46	0.22	0.90	1.58	2.25
		Mz	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.04
	TB-450-E2	N	24.702	24.702	24.702	24.702	24.702	24.702	24.702	24.702	24.702
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-2.422	-2.422	-2.422	-2.422	-2.422	-2.422	-2.422	-2.422	-2.422
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.59	-6.77	-4.96	-3.15	-1.33	0.48	2.29	4.10	5.92
		Mz	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N189/N171	Peso próprio	N	-141.499	-140.733	-139.967	-139.201	-138.435	-137.669	-136.903	-136.137	-135.371
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	1.571	1.681	1.790	1.900	2.010	2.120	2.229	2.339	2.449
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.34	11.09	9.76	8.34	6.84	5.26	3.59	1.84	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-37.296	-37.296	-37.296	-37.296	-37.296	-37.296	-37.296	-37.296	-37.296
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.74	3.27	2.81	2.34	1.87	1.40	0.94	0.47	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-277.028	-277.028	-277.028	-277.028	-277.028	-277.028	-277.028	-277.028	-277.028
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	4.527	4.527	4.527	4.527	4.527	4.527	4.527	4.527	4.527
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		My	27.79	24.31	20.84	17.37	13.89	10.42	6.95	3.47	0.00
		Mz	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	Pavimentação	N	-152.091	-152.091	-152.091	-152.091	-152.091	-152.091	-152.091	-152.091	-152.091
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	2.484	2.484	2.484	2.484	2.484	2.484	2.484	2.484	2.484
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.25	13.34	11.43	9.53	7.62	5.72	3.81	1.91	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Recapeamento	N	-68.745	-68.745	-68.745	-68.745	-68.745	-68.745	-68.745	-68.745	-68.745
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	1.123	1.123	1.123	1.123	1.123	1.123	1.123	1.123	1.123
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.90	6.03	5.17	4.31	3.45	2.59	1.72	0.86	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	15.358	15.358	15.358	15.358	15.358	15.358	15.358	15.358	15.358
		Vy	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101
		Vz	-0.242	-0.242	-0.242	-0.242	-0.242	-0.242	-0.242	-0.242	-0.242
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.49	-1.30	-1.11	-0.93	-0.74	-0.56	-0.37	-0.19	0.00
		Mz	-0.62	-0.55	-0.47	-0.39	-0.31	-0.23	-0.16	-0.08	0.00
	Vento 180	N	-15.300	-15.327	-15.355	-15.382	-15.409	-15.436	-15.463	-15.490	-15.517
		Vy	-2.612	-1.948	-1.285	-0.621	0.043	0.706	1.370	2.033	2.697
		Vz	-0.685	-0.496	-0.307	-0.117	0.072	0.261	0.450	0.640	0.829
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.44	0.89	1.20	1.37	1.38	1.25	0.98	0.56	0.00
		Mz	0.26	2.01	3.25	3.98	4.20	3.92	3.12	1.81	0.00
	Multidão (Passeio)	N	-48.374	-48.374	-48.374	-48.374	-48.374	-48.374	-48.374	-48.374	-48.374
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.85	4.25	3.64	3.03	2.43	1.82	1.21	0.61	0.00
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-158.064	-158.064	-158.064	-158.064	-158.064	-158.064	-158.064	-158.064	-158.064
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	2.583	2.583	2.583	2.583	2.583	2.583	2.583	2.583	2.583
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.85	13.87	11.89	9.91	7.93	5.94	3.96	1.98	0.00
		Mz	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-A1	N	-4.247	-4.247	-4.247	-4.247	-4.247	-4.247	-4.247	-4.247	-4.247
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		My	1.67	1.46	1.26	1.05	0.84	0.63	0.42	0.21	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-A2	N	-9.975	-9.975	-9.975	-9.975	-9.975	-9.975	-9.975	-9.975	-9.975
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.96	3.47	2.97	2.48	1.98	1.49	0.99	0.50	0.00
		Mz	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	TB-450-B1	N	-50.266	-50.266	-50.266	-50.266	-50.266	-50.266	-50.266	-50.266	-50.266
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.62	4.04	3.46	2.88	2.31	1.73	1.15	0.58	0.00
		Mz	-0.03	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	TB-450-B2	N	-118.348	-118.348	-118.348	-118.348	-118.348	-118.348	-118.348	-118.348	-118.348
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	1.776	1.776	1.776	1.776	1.776	1.776	1.776	1.776	1.776
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.90	9.54	8.18	6.81	5.45	4.09	2.73	1.36	0.00
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	TB-450-C1	N	-93.795	-93.795	-93.795	-93.795	-93.795	-93.795	-93.795	-93.795	-93.795
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	1.359	1.359	1.359	1.359	1.359	1.359	1.359	1.359	1.359
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.34	7.30	6.26	5.21	4.17	3.13	2.09	1.04	0.00
		Mz	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
	TB-450-C2	N	-40.141	-40.141	-40.141	-40.141	-40.141	-40.141	-40.141	-40.141	-40.141
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.55	3.10	2.66	2.22	1.77	1.33	0.89	0.44	0.00
		Mz	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	TB-450-D1	N	-24.310	-24.310	-24.310	-24.310	-24.310	-24.310	-24.310	-24.310	-24.310
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.14	1.88	1.61	1.34	1.07	0.80	0.54	0.27	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-D2	N	-56.798	-56.798	-56.798	-56.798	-56.798	-56.798	-56.798	-56.798	-56.798
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.823	0.823	0.823	0.823	0.823	0.823	0.823	0.823	0.823
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		My	5.05	4.42	3.79	3.16	2.52	1.89	1.26	0.63	0.00
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	TB-450-E1	N	-7.246	-7.246	-7.246	-7.246	-7.246	-7.246	-7.246	-7.246	-7.246
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.64	0.56	0.48	0.40	0.32	0.24	0.16	0.08	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-19.597	-19.597	-19.597	-19.597	-19.597	-19.597	-19.597	-19.597	-19.597
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.74	1.52	1.31	1.09	0.87	0.65	0.44	0.22	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N190/N172	Peso próprio	N	138.106	138.853	139.600	140.346	141.093	141.840	142.587	143.334	144.080
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-10.507	-10.397	-10.287	-10.177	-10.068	-9.958	-9.848	-9.738	-9.629
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-30.29	-22.46	-14.72	-7.07	0.51	8.00	15.42	22.74	29.99
		Mz	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
	Guarda Corpo	N	44.035	44.035	44.035	44.035	44.035	44.035	44.035	44.035	44.035
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-2.899	-2.899	-2.899	-2.899	-2.899	-2.899	-2.899	-2.899	-2.899
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.61	-6.44	-4.27	-2.10	0.07	2.24	4.41	6.58	8.75
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Laje	N	327.070	327.070	327.070	327.070	327.070	327.070	327.070	327.070	327.070
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-21.528	-21.528	-21.528	-21.528	-21.528	-21.528	-21.528	-21.528	-21.528
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-63.93	-47.82	-31.71	-15.60	0.51	16.62	32.74	48.85	64.96
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
	Pavimentação	N	179.486	179.486	179.486	179.486	179.486	179.486	179.486	179.486	179.486
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-11.820	-11.820	-11.820	-11.820	-11.820	-11.820	-11.820	-11.820	-11.820
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		My	-35.11	-26.26	-17.41	-8.57	0.28	9.12	17.97	26.82	35.66
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	Recapeamento	N	81.159	81.159	81.159	81.159	81.159	81.159	81.159	81.159	81.159
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-5.342	-5.342	-5.342	-5.342	-5.342	-5.342	-5.342	-5.342	-5.342
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.87	-11.87	-7.87	-3.87	0.13	4.13	8.12	12.12	16.12
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 0	N	-17.569	-17.569	-17.569	-17.569	-17.569	-17.569	-17.569	-17.569	-17.569
		Vy	-0.567	-0.567	-0.567	-0.567	-0.567	-0.567	-0.567	-0.567	-0.567
		Vz	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179	1.179
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.47	2.59	1.71	0.82	-0.06	-0.94	-1.82	-2.71	-3.59
		Mz	-3.72	-3.29	-2.87	-2.45	-2.02	-1.60	-1.17	-0.75	-0.32
	Vento 180	N	17.720	17.747	17.774	17.801	17.828	17.855	17.882	17.910	17.937
		Vy	3.110	2.462	1.815	1.168	0.521	-0.127	-0.774	-1.421	-2.068
		Vz	-0.460	-0.645	-0.829	-1.014	-1.198	-1.383	-1.568	-1.752	-1.937
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.82	-2.40	-1.85	-1.16	-0.34	0.63	1.73	2.98	4.36
		Mz	2.95	0.87	-0.73	-1.85	-2.48	-2.63	-2.29	-1.47	-0.17
	Multidão (Passeio)	N	57.121	57.121	57.121	57.121	57.121	57.121	57.121	57.121	57.121
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-3.760	-3.760	-3.760	-3.760	-3.760	-3.760	-3.760	-3.760	-3.760
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-11.17	-8.35	-5.54	-2.72	0.09	2.90	5.72	8.53	11.34
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Multidão - TB450	N	186.595	186.595	186.595	186.595	186.595	186.595	186.595	186.595	186.595
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-12.282	-12.282	-12.282	-12.282	-12.282	-12.282	-12.282	-12.282	-12.282
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-36.48	-27.28	-18.09	-8.90	0.29	9.49	18.68	27.87	37.06
		Mz	0.02	0.02	0.01	0.00	0.00	-0.01	-0.01	-0.02	-0.03
	TB-450-A1	N	14.504	14.504	14.504	14.504	14.504	14.504	14.504	14.504	14.504
		Vy	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		Vz	-0.524	-0.524	-0.524	-0.524	-0.524	-0.524	-0.524	-0.524	-0.524
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.28	-0.89	-0.50	-0.11	0.29	0.68	1.07	1.46	1.85
		Mz	-0.15	-0.13	-0.12	-0.10	-0.08	-0.06	-0.05	-0.03	-0.01
	TB-450-A2	N	34.305	34.305	34.305	34.305	34.305	34.305	34.305	34.305	34.305

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	-1.232	-1.232	-1.232	-1.232	-1.232	-1.232	-1.232	-1.232	-1.232
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.01	-2.09	-1.17	-0.24	0.68	1.60	2.52	3.45	4.37
		Mz	-0.15	-0.13	-0.11	-0.09	-0.07	-0.05	-0.03	-0.01	0.01
	TB-450-B1	N	55.816	55.816	55.816	55.816	55.816	55.816	55.816	55.816	55.816
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-3.587	-3.587	-3.587	-3.587	-3.587	-3.587	-3.587	-3.587	-3.587
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.65	-7.96	-5.28	-2.59	0.09	2.78	5.46	8.15	10.83
		Mz	0.03	0.02	0.01	0.01	0.00	0.00	-0.01	-0.02	-0.02
	TB-450-B2	N	131.780	131.780	131.780	131.780	131.780	131.780	131.780	131.780	131.780
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-8.451	-8.451	-8.451	-8.451	-8.451	-8.451	-8.451	-8.451	-8.451
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-25.08	-18.75	-12.43	-6.10	0.22	6.55	12.87	19.20	25.52
		Mz	0.20	0.17	0.15	0.12	0.10	0.07	0.05	0.03	0.00
	TB-450-C1	N	102.847	102.847	102.847	102.847	102.847	102.847	102.847	102.847	102.847
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-7.436	-7.436	-7.436	-7.436	-7.436	-7.436	-7.436	-7.436	-7.436
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-22.43	-16.87	-11.30	-5.74	-0.17	5.39	10.96	16.52	22.09
		Mz	0.20	0.18	0.15	0.13	0.10	0.08	0.05	0.03	0.00
	TB-450-C2	N	43.785	43.785	43.785	43.785	43.785	43.785	43.785	43.785	43.785
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-3.175	-3.175	-3.175	-3.175	-3.175	-3.175	-3.175	-3.175	-3.175
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.58	-7.20	-4.83	-2.45	-0.08	2.30	4.68	7.05	9.43
		Mz	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
	TB-450-D1	N	26.555	26.555	26.555	26.555	26.555	26.555	26.555	26.555	26.555
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.84	-4.39	-2.95	-1.50	-0.05	1.39	2.84	4.28	5.73
		Mz	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01
	TB-450-D2	N	62.481	62.481	62.481	62.481	62.481	62.481	62.481	62.481	62.481
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-4.526	-4.526	-4.526	-4.526	-4.526	-4.526	-4.526	-4.526	-4.526
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		My	-13.67	-10.28	-6.90	-3.51	-0.12	3.27	6.65	10.04	13.43
		Mz	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
	TB-450-E1	N	7.898	7.898	7.898	7.898	7.898	7.898	7.898	7.898	7.898
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.576	-0.576	-0.576	-0.576	-0.576	-0.576	-0.576	-0.576	-0.576
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.74	-1.31	-0.88	-0.45	-0.02	0.41	0.85	1.28	1.71
		Mz	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	-0.01
	TB-450-E2	N	21.565	21.565	21.565	21.565	21.565	21.565	21.565	21.565	21.565
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.72	-3.55	-2.38	-1.21	-0.04	1.13	2.30	3.47	4.63
		Mz	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N191/N173	Peso próprio	N	-137.884	-137.118	-136.352	-135.586	-134.820	-134.054	-133.288	-132.522	-131.756
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	8.167	8.276	8.386	8.496	8.606	8.715	8.825	8.935	9.045
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.44	20.13	13.74	7.26	0.70	-5.95	-12.68	-19.49	-26.39
		Mz	0.02	0.01	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04
	Guarda Corpo	N	-35.424	-35.424	-35.424	-35.424	-35.424	-35.424	-35.424	-35.424	-35.424
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	2.476	2.476	2.476	2.476	2.476	2.476	2.476	2.476	2.476
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.73	5.83	3.93	2.03	0.13	-1.77	-3.67	-5.57	-7.47
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-263.083	-263.083	-263.083	-263.083	-263.083	-263.083	-263.083	-263.083	-263.083
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	18.389	18.389	18.389	18.389	18.389	18.389	18.389	18.389	18.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	57.42	43.31	29.20	15.09	0.98	-13.13	-27.24	-41.35	-55.46
		Mz	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
	Pavimentação	N	-144.687	-144.687	-144.687	-144.687	-144.687	-144.687	-144.687	-144.687	-144.687
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	10.106	10.106	10.106	10.106	10.106	10.106	10.106	10.106	10.106
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		My	31.56	23.80	16.05	8.29	0.54	-7.22	-14.97	-22.73	-30.48
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	Recapeamento	N	-65.292	-65.292	-65.292	-65.292	-65.292	-65.292	-65.292	-65.292	-65.292
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	4.564	4.564	4.564	4.564	4.564	4.564	4.564	4.564	4.564
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.25	10.75	7.25	3.75	0.24	-3.26	-6.76	-10.26	-13.76
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 0	N	18.864	18.864	18.864	18.864	18.864	18.864	18.864	18.864	18.864
		Vy	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635
		Vz	-1.130	-1.130	-1.130	-1.130	-1.130	-1.130	-1.130	-1.130	-1.130
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.41	-2.55	-1.68	-0.81	0.05	0.92	1.79	2.66	3.52
		Mz	4.12	3.64	3.15	2.66	2.17	1.69	1.20	0.71	0.22
	Vento 180	N	-18.960	-18.987	-19.014	-19.042	-19.069	-19.096	-19.123	-19.150	-19.177
		Vy	-3.257	-2.594	-1.930	-1.267	-0.603	0.061	0.724	1.388	2.051
		Vz	0.380	0.569	0.758	0.948	1.137	1.326	1.516	1.705	1.894
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.70	2.33	1.82	1.17	0.37	-0.58	-1.67	-2.90	-4.28
		Mz	-3.51	-1.26	0.47	1.70	2.42	2.63	2.32	1.51	0.20
	Multidão (Passeio)	N	-45.948	-45.948	-45.948	-45.948	-45.948	-45.948	-45.948	-45.948	-45.948
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	3.212	3.212	3.212	3.212	3.212	3.212	3.212	3.212	3.212
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.03	7.57	5.10	2.64	0.17	-2.29	-4.76	-7.22	-9.69
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-150.121	-150.121	-150.121	-150.121	-150.121	-150.121	-150.121	-150.121	-150.121
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	10.492	10.492	10.492	10.492	10.492	10.492	10.492	10.492	10.492
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	32.76	24.71	16.66	8.61	0.56	-7.49	-15.54	-23.59	-31.64
		Mz	-0.04	-0.04	-0.04	-0.04	-0.04	-0.03	-0.03	-0.03	-0.03
	TB-450-A1	N	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	0.00	0.04	0.09	0.13	0.17	0.21	0.26	0.30
		Mz	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.00
	TB-450-A2	N	15.250	15.250	15.250	15.250	15.250	15.250	15.250	15.250	15.250
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		My	-0.13	-0.02	0.09	0.19	0.30	0.41	0.52	0.62	0.73
		Mz	0.18	0.15	0.13	0.11	0.09	0.07	0.05	0.03	0.01
	TB-450-B1	N	-37.838	-37.838	-37.838	-37.838	-37.838	-37.838	-37.838	-37.838	-37.838
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	2.805	2.805	2.805	2.805	2.805	2.805	2.805	2.805	2.805
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.94	6.79	4.64	2.49	0.33	-1.82	-3.97	-6.12	-8.28
		Mz	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01
	TB-450-B2	N	-89.055	-89.055	-89.055	-89.055	-89.055	-89.055	-89.055	-89.055	-89.055
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	6.608	6.608	6.608	6.608	6.608	6.608	6.608	6.608	6.608
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.07	16.00	10.93	5.86	0.79	-4.28	-9.35	-14.42	-19.50
		Mz	-0.17	-0.15	-0.13	-0.11	-0.08	-0.06	-0.04	-0.02	0.00
	TB-450-C1	N	-114.898	-114.898	-114.898	-114.898	-114.898	-114.898	-114.898	-114.898	-114.898
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	7.304	7.304	7.304	7.304	7.304	7.304	7.304	7.304	7.304
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.42	16.81	11.21	5.60	0.00	-5.61	-11.21	-16.82	-22.42
		Mz	-0.19	-0.17	-0.15	-0.13	-0.11	-0.09	-0.07	-0.04	-0.02
	TB-450-C2	N	-48.990	-48.990	-48.990	-48.990	-48.990	-48.990	-48.990	-48.990	-48.990
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114	3.114
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.56	7.17	4.78	2.39	0.00	-2.39	-4.78	-7.17	-9.56
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
	TB-450-D1	N	-30.054	-30.054	-30.054	-30.054	-30.054	-30.054	-30.054	-30.054	-30.054
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	1.918	1.918	1.918	1.918	1.918	1.918	1.918	1.918	1.918
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.88	4.41	2.94	1.47	-0.01	-1.48	-2.95	-4.42	-5.89
		Mz	0.09	0.08	0.07	0.06	0.04	0.03	0.02	0.01	0.00
	TB-450-D2	N	-70.510	-70.510	-70.510	-70.510	-70.510	-70.510	-70.510	-70.510	-70.510
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	4.497	4.497	4.497	4.497	4.497	4.497	4.497	4.497	4.497
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.78	10.33	6.88	3.43	-0.02	-3.47	-6.92	-10.37	-13.83
		Mz	-0.07	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	0.00
	TB-450-E1	N	-8.954	-8.954	-8.954	-8.954	-8.954	-8.954	-8.954	-8.954	-8.954
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		My	1.75	1.31	0.88	0.44	0.00	-0.44	-0.88	-1.32	-1.76
		Mz	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
	TB-450-E2	N	-24.350	-24.350	-24.350	-24.350	-24.350	-24.350	-24.350	-24.350	-24.350
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	1.553	1.553	1.553	1.553	1.553	1.553	1.553	1.553	1.553
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.76	3.57	2.38	1.18	-0.01	-1.20	-2.39	-3.58	-4.78
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N192/N174	Peso próprio	N	108.306	109.053	109.800	110.547	111.293	112.040	112.787	113.534	114.280
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-8.411	-8.301	-8.192	-8.082	-7.972	-7.862	-7.753	-7.643	-7.533
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.73	-17.48	-11.31	-5.22	0.79	6.71	12.56	18.32	24.00
		Mz	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
	Guarda Corpo	N	35.078	35.078	35.078	35.078	35.078	35.078	35.078	35.078	35.078
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-2.270	-2.270	-2.270	-2.270	-2.270	-2.270	-2.270	-2.270	-2.270
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.63	-4.93	-3.23	-1.53	0.16	1.86	3.56	5.26	6.96
		Mz	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
	Laje	N	260.442	260.442	260.442	260.442	260.442	260.442	260.442	260.442	260.442
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	-16.852	-16.852	-16.852	-16.852	-16.852	-16.852	-16.852	-16.852	-16.852
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-49.23	-36.62	-24.00	-11.39	1.22	13.83	26.45	39.06	51.67
		Mz	0.28	0.24	0.21	0.18	0.15	0.11	0.08	0.05	0.02
	Pavimentação	N	143.188	143.188	143.188	143.188	143.188	143.188	143.188	143.188	143.188
		Vy	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vz	-9.273	-9.273	-9.273	-9.273	-9.273	-9.273	-9.273	-9.273	-9.273
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-27.09	-20.15	-13.21	-6.27	0.67	7.61	14.55	21.49	28.43
		Mz	0.16	0.14	0.12	0.10	0.08	0.07	0.05	0.03	0.01
	Recapeamento	N	64.634	64.634	64.634	64.634	64.634	64.634	64.634	64.634	64.634
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-4.183	-4.183	-4.183	-4.183	-4.183	-4.183	-4.183	-4.183	-4.183

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.22	-9.09	-5.96	-2.83	0.30	3.43	6.56	9.69	12.82
		Mz	0.07	0.06	0.05	0.05	0.04	0.03	0.02	0.01	0.00
	Vento 0	N	-17.340	-17.340	-17.340	-17.340	-17.340	-17.340	-17.340	-17.340	-17.340
		Vy	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467
		Vz	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267	1.267
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.75	2.80	1.85	0.90	-0.05	-0.99	-1.94	-2.89	-3.84
		Mz	-3.04	-2.69	-2.34	-1.99	-1.64	-1.29	-0.94	-0.59	-0.24
	Vento 180	N	17.334	17.361	17.389	17.416	17.443	17.470	17.497	17.524	17.551
		Vy	3.001	2.354	1.706	1.059	0.412	-0.235	-0.883	-1.530	-2.177
		Vz	-0.535	-0.719	-0.904	-1.088	-1.273	-1.457	-1.642	-1.826	-2.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.06	-2.59	-1.99	-1.24	-0.36	0.66	1.82	3.12	4.56
		Mz	2.22	0.22	-1.30	-2.34	-2.89	-2.95	-2.53	-1.63	-0.24
	Multidão (Passeio)	N	45.516	45.516	45.516	45.516	45.516	45.516	45.516	45.516	45.516
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-2.945	-2.945	-2.945	-2.945	-2.945	-2.945	-2.945	-2.945	-2.945
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.60	-6.40	-4.20	-1.99	0.21	2.42	4.62	6.82	9.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	148.568	148.568	148.568	148.568	148.568	148.568	148.568	148.568	148.568
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	-9.615	-9.615	-9.615	-9.615	-9.615	-9.615	-9.615	-9.615	-9.615
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-28.09	-20.89	-13.70	-6.50	0.70	7.89	15.09	22.29	29.48
		Mz	0.22	0.20	0.17	0.14	0.12	0.09	0.07	0.04	0.02
	TB-450-A1	N	-6.016	-6.016	-6.016	-6.016	-6.016	-6.016	-6.016	-6.016	-6.016
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.46	1.12	0.79	0.46	0.13	-0.21	-0.54	-0.87	-1.20
		Mz	-0.10	-0.09	-0.08	-0.07	-0.06	-0.05	-0.03	-0.02	-0.01
	TB-450-A2	N	-14.337	-14.337	-14.337	-14.337	-14.337	-14.337	-14.337	-14.337	-14.337
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.47	2.68	1.89	1.10	0.30	-0.49	-1.28	-2.08	-2.87
		Mz	-0.10	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
	TB-450-B1	N	39.712	39.712	39.712	39.712	39.712	39.712	39.712	39.712	39.712
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-1.964	-1.964	-1.964	-1.964	-1.964	-1.964	-1.964	-1.964	-1.964
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.48	-4.01	-2.54	-1.07	0.40	1.87	3.34	4.81	6.28
		Mz	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	TB-450-B2	N	93.538	93.538	93.538	93.538	93.538	93.538	93.538	93.538	93.538
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-4.613	-4.613	-4.613	-4.613	-4.613	-4.613	-4.613	-4.613	-4.613
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.86	-9.41	-5.96	-2.50	0.95	4.40	7.85	11.31	14.76
		Mz	0.12	0.11	0.09	0.08	0.07	0.05	0.04	0.03	0.01
	TB-450-C1	N	109.281	109.281	109.281	109.281	109.281	109.281	109.281	109.281	109.281
		Vy	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
		Vz	-7.896	-7.896	-7.896	-7.896	-7.896	-7.896	-7.896	-7.896	-7.896
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.55	-17.64	-11.73	-5.82	0.09	6.00	11.91	17.81	23.72
		Mz	0.38	0.34	0.30	0.25	0.21	0.16	0.12	0.07	0.03
	TB-450-C2	N	46.479	46.479	46.479	46.479	46.479	46.479	46.479	46.479	46.479
		Vy	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Vz	-3.364	-3.364	-3.364	-3.364	-3.364	-3.364	-3.364	-3.364	-3.364
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.03	-7.51	-5.00	-2.48	0.04	2.56	5.08	7.59	10.11
		Mz	0.26	0.23	0.20	0.17	0.14	0.11	0.08	0.05	0.02
	TB-450-D1	N	29.227	29.227	29.227	29.227	29.227	29.227	29.227	29.227	29.227
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-2.126	-2.126	-2.126	-2.126	-2.126	-2.126	-2.126	-2.126	-2.126
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.37	-4.78	-3.19	-1.60	-0.01	1.58	3.18	4.77	6.36
		Mz	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
	TB-450-D2	N	68.597	68.597	68.597	68.597	68.597	68.597	68.597	68.597	68.597
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-4.984	-4.984	-4.984	-4.984	-4.984	-4.984	-4.984	-4.984	-4.984
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.93	-11.20	-7.47	-3.74	-0.01	3.72	7.45	11.18	14.91
		Mz	0.04	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00
	TB-450-E1	N	8.709	8.709	8.709	8.709	8.709	8.709	8.709	8.709	8.709
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.634	-0.634	-0.634	-0.634	-0.634	-0.634	-0.634	-0.634	-0.634

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.90	-1.43	-0.95	-0.48	0.00	0.47	0.95	1.42	1.90
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-E2	N	23.699	23.699	23.699	23.699	23.699	23.699	23.699	23.699	23.699
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.16	-3.87	-2.59	-1.30	-0.01	1.28	2.57	3.86	5.15
		Mz	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N193/N176	Peso próprio	N	-91.541	-90.775	-90.009	-89.243	-88.477	-87.711	-86.945	-86.179	-85.413
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	5.386	5.496	5.606	5.716	5.825	5.935	6.045	6.155	6.264
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.28	14.11	9.85	5.51	1.08	-3.43	-8.03	-12.71	-17.47
		Mz	-0.14	-0.13	-0.13	-0.12	-0.11	-0.10	-0.09	-0.08	-0.08
	Guarda Corpo	N	-21.596	-21.596	-21.596	-21.596	-21.596	-21.596	-21.596	-21.596	-21.596
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	1.640	1.640	1.640	1.640	1.640	1.640	1.640	1.640	1.640
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.27	4.02	2.76	1.50	0.24	-1.02	-2.27	-3.53	-4.79
		Mz	-0.05	-0.05	-0.04	-0.04	-0.04	-0.04	-0.03	-0.03	-0.03
	Laje	N	-160.192	-160.192	-160.192	-160.192	-160.192	-160.192	-160.192	-160.192	-160.192
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	12.161	12.161	12.161	12.161	12.161	12.161	12.161	12.161	12.161
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	39.12	29.79	20.46	11.13	1.80	-7.53	-16.86	-26.19	-35.52
		Mz	-0.54	-0.51	-0.49	-0.46	-0.43	-0.40	-0.37	-0.34	-0.32
	Pavimentação	N	-88.435	-88.435	-88.435	-88.435	-88.435	-88.435	-88.435	-88.435	-88.435
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	6.702	6.702	6.702	6.702	6.702	6.702	6.702	6.702	6.702
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.56	16.42	11.27	6.13	0.99	-4.15	-9.30	-14.44	-19.58
		Mz	-0.31	-0.29	-0.28	-0.26	-0.24	-0.23	-0.21	-0.19	-0.18
	Recapeamento	N	-39.765	-39.765	-39.765	-39.765	-39.765	-39.765	-39.765	-39.765	-39.765
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	3.018	3.018	3.018	3.018	3.018	3.018	3.018	3.018	3.018

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.71	7.39	5.08	2.76	0.45	-1.87	-4.19	-6.50	-8.82
		Mz	-0.14	-0.13	-0.12	-0.12	-0.11	-0.10	-0.09	-0.09	-0.08
	Vento 0	N	17.388	17.388	17.388	17.388	17.388	17.388	17.388	17.388	17.388
		Vy	0.552	0.552	0.552	0.552	0.552	0.552	0.552	0.552	0.552
		Vz	-1.043	-1.043	-1.043	-1.043	-1.043	-1.043	-1.043	-1.043	-1.043
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.31	-2.51	-1.71	-0.91	-0.11	0.68	1.48	2.28	3.08
		Mz	4.36	3.94	3.52	3.09	2.67	2.25	1.82	1.40	0.98
	Vento 180	N	-17.406	-17.434	-17.461	-17.488	-17.515	-17.542	-17.569	-17.596	-17.623
		Vy	-3.171	-2.508	-1.844	-1.181	-0.517	0.146	0.810	1.474	2.137
		Vz	0.289	0.478	0.667	0.856	1.046	1.235	1.424	1.614	1.803
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.59	2.29	1.85	1.27	0.54	-0.34	-1.36	-2.52	-3.83
		Mz	-3.83	-1.65	0.02	1.18	1.83	1.98	1.61	0.73	-0.65
	Multidão (Passeio)	N	-28.044	-28.044	-28.044	-28.044	-28.044	-28.044	-28.044	-28.044	-28.044
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	2.129	2.129	2.129	2.129	2.129	2.129	2.129	2.129	2.129
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.85	5.21	3.58	1.94	0.31	-1.32	-2.96	-4.59	-6.22
		Mz	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	Multidão - TB450	N	-91.352	-91.352	-91.352	-91.352	-91.352	-91.352	-91.352	-91.352	-91.352
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	6.933	6.933	6.933	6.933	6.933	6.933	6.933	6.933	6.933
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.31	16.99	11.67	6.35	1.03	-4.29	-9.61	-14.93	-20.25
		Mz	-0.41	-0.39	-0.36	-0.34	-0.32	-0.30	-0.28	-0.25	-0.23
	TB-450-A1	N	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.75	-1.30	-0.85	-0.39	0.06	0.51	0.96	1.42	1.87
		Mz	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01
	TB-450-A2	N	22.048	22.048	22.048	22.048	22.048	22.048	22.048	22.048	22.048
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-1.405	-1.405	-1.405	-1.405	-1.405	-1.405	-1.405	-1.405	-1.405
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.17	-3.09	-2.02	-0.94	0.14	1.22	2.30	3.37	4.45
		Mz	0.12	0.10	0.09	0.08	0.06	0.05	0.04	0.03	0.01
	TB-450-B1	N	2.565	2.565	2.565	2.565	2.565	2.565	2.565	2.565	2.565
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.41	1.92	1.43	0.94	0.46	-0.03	-0.52	-1.01	-1.50
		Mz	-0.06	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01
	TB-450-B2	N	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.63	4.49	3.35	2.21	1.07	-0.07	-1.21	-2.35	-3.49
		Mz	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00	0.01
	TB-450-C1	N	-104.725	-104.725	-104.725	-104.725	-104.725	-104.725	-104.725	-104.725	-104.725
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	6.792	6.792	6.792	6.792	6.792	6.792	6.792	6.792	6.792
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.40	16.19	10.98	5.76	0.55	-4.66	-9.87	-15.08	-20.29
		Mz	-0.56	-0.53	-0.49	-0.46	-0.42	-0.39	-0.35	-0.32	-0.29
	TB-450-C2	N	-44.404	-44.404	-44.404	-44.404	-44.404	-44.404	-44.404	-44.404	-44.404
		Vy	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034
		Vz	2.875	2.875	2.875	2.875	2.875	2.875	2.875	2.875	2.875
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.07	6.87	4.66	2.46	0.25	-1.96	-4.16	-6.37	-8.57
		Mz	-0.49	-0.46	-0.44	-0.41	-0.38	-0.36	-0.33	-0.31	-0.28
	TB-450-D1	N	-30.412	-30.412	-30.412	-30.412	-30.412	-30.412	-30.412	-30.412	-30.412
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	1.970	1.970	1.970	1.970	1.970	1.970	1.970	1.970	1.970
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.10	4.59	3.08	1.57	0.06	-1.45	-2.97	-4.48	-5.99
		Mz	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.00	0.00
	TB-450-D2	N	-71.469	-71.469	-71.469	-71.469	-71.469	-71.469	-71.469	-71.469	-71.469
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	4.626	4.626	4.626	4.626	4.626	4.626	4.626	4.626	4.626
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.33	10.78	7.23	3.68	0.13	-3.42	-6.97	-10.52	-14.07
		Mz	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-E1	N	-9.094	-9.094	-9.094	-9.094	-9.094	-9.094	-9.094	-9.094	-9.094
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.82	1.37	0.92	0.47	0.02	-0.43	-0.89	-1.34	-1.79
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	TB-450-E2	N	-24.790	-24.790	-24.790	-24.790	-24.790	-24.790	-24.790	-24.790	-24.790
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604	1.604

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.97	3.73	2.50	1.27	0.04	-1.19	-2.42	-3.65	-4.88
		Mz	-0.05	-0.04	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N194/N175	Peso próprio	N	66.210	66.957	67.704	68.450	69.197	69.944	70.691	71.437	72.184
		Vy	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353
		Vz	-4.763	-4.653	-4.544	-4.434	-4.324	-4.214	-4.105	-3.995	-3.885
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.76	-9.24	-5.79	-2.44	0.84	4.04	7.15	10.18	13.13
		Mz	2.06	1.79	1.53	1.26	1.00	0.73	0.47	0.20	-0.06
	Guarda Corpo	N	22.418	22.418	22.418	22.418	22.418	22.418	22.418	22.418	22.418
		Vy	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108
		Vz	-1.192	-1.192	-1.192	-1.192	-1.192	-1.192	-1.192	-1.192	-1.192
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.40	-2.50	-1.61	-0.72	0.17	1.06	1.96	2.85	3.74
		Mz	0.63	0.55	0.47	0.39	0.31	0.23	0.15	0.07	-0.01
	Laje	N	166.488	166.488	166.488	166.488	166.488	166.488	166.488	166.488	166.488
		Vy	1.147	1.147	1.147	1.147	1.147	1.147	1.147	1.147	1.147
		Vz	-8.820	-8.820	-8.820	-8.820	-8.820	-8.820	-8.820	-8.820	-8.820
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-25.12	-18.52	-11.92	-5.32	1.28	7.88	14.48	21.08	27.68
		Mz	6.75	5.89	5.03	4.17	3.31	2.46	1.60	0.74	-0.12
	Pavimentação	N	91.873	91.873	91.873	91.873	91.873	91.873	91.873	91.873	91.873
		Vy	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651
		Vz	-4.870	-4.870	-4.870	-4.870	-4.870	-4.870	-4.870	-4.870	-4.870
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.88	-10.23	-6.59	-2.94	0.70	4.35	7.99	11.64	15.28
		Mz	3.83	3.34	2.85	2.37	1.88	1.39	0.91	0.42	-0.07
	Recapeamento	N	41.330	41.330	41.330	41.330	41.330	41.330	41.330	41.330	41.330
		Vy	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291
		Vz	-2.189	-2.189	-2.189	-2.189	-2.189	-2.189	-2.189	-2.189	-2.189
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.24	-4.60	-2.96	-1.32	0.32	1.96	3.59	5.23	6.87
		Mz	1.71	1.50	1.28	1.06	0.84	0.62	0.41	0.19	-0.03
	Vento 0	N	-17.559	-17.559	-17.559	-17.559	-17.559	-17.559	-17.559	-17.559	-17.559
		Vy	-5.921	-5.921	-5.921	-5.921	-5.921	-5.921	-5.921	-5.921	-5.921

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Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vz	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.79	2.09	1.39	0.69	-0.01	-0.70	-1.40	-2.10	-2.80
		Mz	-34.49	-30.06	-25.63	-21.20	-16.77	-12.34	-7.90	-3.47	0.96
	Vento 180	N	17.596	17.624	17.651	17.678	17.705	17.732	17.759	17.786	17.813
		Vy	8.710	8.062	7.415	6.768	6.121	5.474	4.826	4.179	3.532
		Vz	-0.199	-0.384	-0.568	-0.753	-0.937	-1.122	-1.306	-1.491	-1.675
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.10	-1.88	-1.53	-1.03	-0.40	0.37	1.28	2.32	3.51
		Mz	35.20	28.92	23.13	17.82	13.00	8.66	4.81	1.44	-1.45
	Multidão (Passeio)	N	29.071	29.071	29.071	29.071	29.071	29.071	29.071	29.071	29.071
		Vy	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
		Vz	-1.553	-1.553	-1.553	-1.553	-1.553	-1.553	-1.553	-1.553	-1.553
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.43	-3.26	-2.10	-0.94	0.22	1.39	2.55	3.71	4.87
		Mz	0.39	0.34	0.29	0.24	0.19	0.14	0.09	0.04	-0.01
	Multidão - TB450	N	95.045	95.045	95.045	95.045	95.045	95.045	95.045	95.045	95.045
		Vy	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848
		Vz	-5.017	-5.017	-5.017	-5.017	-5.017	-5.017	-5.017	-5.017	-5.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.29	-10.53	-6.78	-3.02	0.73	4.49	8.24	11.99	15.75
		Mz	4.99	4.36	3.72	3.09	2.45	1.82	1.18	0.55	-0.09
	TB-450-A1	N	-9.494	-9.494	-9.494	-9.494	-9.494	-9.494	-9.494	-9.494	-9.494
		Vy	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069
		Vz	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.20	1.65	1.11	0.56	0.02	-0.52	-1.07	-1.61	-2.16
		Mz	-0.41	-0.36	-0.30	-0.25	-0.20	-0.15	-0.10	-0.05	0.00
	TB-450-A2	N	-22.562	-22.562	-22.562	-22.562	-22.562	-22.562	-22.562	-22.562	-22.562
		Vy	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073
		Vz	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.22	3.93	2.64	1.34	0.05	-1.25	-2.54	-3.84	-5.13
		Mz	-0.43	-0.37	-0.32	-0.26	-0.21	-0.15	-0.10	-0.04	0.01
	TB-450-B1	N	0.932	0.932	0.932	0.932	0.932	0.932	0.932	0.932	0.932
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	0.558	0.558	0.558	0.558	0.558	0.558	0.558	0.558	0.558
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.07	1.65	1.23	0.81	0.39	-0.02	-0.44	-0.86	-1.28

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Mz	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.00	-0.01
	TB-450-B2	N	1.848	1.848	1.848	1.848	1.848	1.848	1.848	1.848	1.848
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.93	3.93	2.93	1.93	0.93	-0.07	-1.07	-2.07	-3.08
		Mz	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.01	0.02
	TB-450-C1	N	104.153	104.153	104.153	104.153	104.153	104.153	104.153	104.153	104.153
		Vy	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066
		Vz	-5.955	-5.955	-5.955	-5.955	-5.955	-5.955	-5.955	-5.955	-5.955
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.39	-12.93	-8.48	-4.02	0.44	4.89	9.35	13.81	18.26
		Mz	6.29	5.49	4.69	3.90	3.10	2.30	1.50	0.70	-0.09
	TB-450-C2	N	44.395	44.395	44.395	44.395	44.395	44.395	44.395	44.395	44.395
		Vy	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067
		Vz	-2.495	-2.495	-2.495	-2.495	-2.495	-2.495	-2.495	-2.495	-2.495
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.28	-5.42	-3.55	-1.68	0.19	2.05	3.92	5.79	7.65
		Mz	6.28	5.48	4.68	3.88	3.08	2.28	1.48	0.69	-0.11
	TB-450-D1	N	30.259	30.259	30.259	30.259	30.259	30.259	30.259	30.259	30.259
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-2.084	-2.084	-2.084	-2.084	-2.084	-2.084	-2.084	-2.084	-2.084
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.24	-4.68	-3.12	-1.56	-0.01	1.55	3.11	4.67	6.23
		Mz	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-D2	N	71.097	71.097	71.097	71.097	71.097	71.097	71.097	71.097	71.097
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	-4.900	-4.900	-4.900	-4.900	-4.900	-4.900	-4.900	-4.900	-4.900
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.68	-11.02	-7.35	-3.68	-0.01	3.65	7.32	10.99	14.65
		Mz	0.13	0.12	0.10	0.08	0.07	0.05	0.03	0.01	0.00
	TB-450-E1	N	9.089	9.089	9.089	9.089	9.089	9.089	9.089	9.089	9.089
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.88	-1.41	-0.94	-0.47	-0.01	0.46	0.93	1.40	1.87
		Mz	0.18	0.15	0.13	0.11	0.08	0.06	0.04	0.02	-0.01
	TB-450-E2	N	24.771	24.771	24.771	24.771	24.771	24.771	24.771	24.771	24.771
		Vy	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vz	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.14	-3.86	-2.58	-1.30	-0.01	1.27	2.55	3.83	5.11
		Mz	0.43	0.38	0.32	0.26	0.21	0.15	0.10	0.04	-0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
N195/N178	Peso próprio	N	-21.016	-20.247	-19.478	-18.709	-17.939	-17.170	-16.401	-15.631	-14.862
		Vy	-0.334	-0.334	-0.334	-0.334	-0.334	-0.334	-0.334	-0.334	-0.334
		Vz	1.822	1.932	2.041	2.151	2.260	2.370	2.480	2.589	2.699
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.35	5.91	4.38	2.76	1.06	-0.72	-2.59	-4.54	-6.58
		Mz	-2.02	-1.76	-1.50	-1.24	-0.99	-0.73	-0.47	-0.22	0.04
	Guarda Corpo	N	-1.481	-1.481	-1.481	-1.481	-1.481	-1.481	-1.481	-1.481	-1.481
		Vy	-0.105	-0.105	-0.105	-0.105	-0.105	-0.105	-0.105	-0.105	-0.105
		Vz	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.12	1.64	1.17	0.70	0.22	-0.25	-0.72	-1.20	-1.67
		Mz	-0.63	-0.55	-0.47	-0.39	-0.31	-0.23	-0.15	-0.07	0.01
	Laje	N	-9.423	-9.423	-9.423	-9.423	-9.423	-9.423	-9.423	-9.423	-9.423
		Vy	-1.113	-1.113	-1.113	-1.113	-1.113	-1.113	-1.113	-1.113	-1.113
		Vz	4.504	4.504	4.504	4.504	4.504	4.504	4.504	4.504	4.504
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.55	12.08	8.61	5.14	1.67	-1.80	-5.27	-8.74	-12.21
		Mz	-6.73	-5.87	-5.01	-4.15	-3.30	-2.44	-1.58	-0.72	0.13
	Pavimentação	N	-5.332	-5.332	-5.332	-5.332	-5.332	-5.332	-5.332	-5.332	-5.332
		Vy	-0.631	-0.631	-0.631	-0.631	-0.631	-0.631	-0.631	-0.631	-0.631
		Vz	2.491	2.491	2.491	2.491	2.491	2.491	2.491	2.491	2.491
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.60	6.68	4.76	2.84	0.92	-1.00	-2.92	-4.83	-6.75
		Mz	-3.81	-3.33	-2.84	-2.36	-1.87	-1.38	-0.90	-0.41	0.08
	Recapeamento	N	-2.317	-2.317	-2.317	-2.317	-2.317	-2.317	-2.317	-2.317	-2.317
		Vy	-0.283	-0.283	-0.283	-0.283	-0.283	-0.283	-0.283	-0.283	-0.283
		Vz	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.86	3.00	2.14	1.28	0.42	-0.45	-1.31	-2.17	-3.03
		Mz	-1.71	-1.49	-1.27	-1.05	-0.84	-0.62	-0.40	-0.18	0.03
	Vento 0	N	-2.389	-2.389	-2.389	-2.389	-2.389	-2.389	-2.389	-2.389	-2.389

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
		Vy	5.659	5.659	5.659	5.659	5.659	5.659	5.659	5.659	5.659
		Vz	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-1.61	-1.27	-0.94	-0.60	-0.26	0.07	0.41	0.74	1.08
		Mz	33.03	28.67	24.31	19.95	15.59	11.23	6.87	2.51	-1.85
	Vento 180	N	2.743	2.716	2.689	2.662	2.635	2.608	2.581	2.554	2.527
		Vy	-8.552	-7.886	-7.219	-6.553	-5.887	-5.220	-4.554	-3.887	-3.221
		Vz	-0.329	-0.139	0.052	0.242	0.432	0.622	0.812	1.002	1.192
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	0.86	1.04	1.07	0.96	0.70	0.29	-0.26	-0.96	-1.81
		Mz	-33.93	-27.59	-21.77	-16.47	-11.68	-7.40	-3.63	-0.38	2.36
	Multidão (Passeio)	N	-2.249	-2.249	-2.249	-2.249	-2.249	-2.249	-2.249	-2.249	-2.249
		Vy	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064
		Vz	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.78	2.16	1.53	0.91	0.29	-0.33	-0.96	-1.58	-2.20
		Mz	-0.39	-0.34	-0.29	-0.24	-0.19	-0.14	-0.09	-0.04	0.01
	Multidão - TB450	N	-4.536	-4.536	-4.536	-4.536	-4.536	-4.536	-4.536	-4.536	-4.536
		Vy	-0.822	-0.822	-0.822	-0.822	-0.822	-0.822	-0.822	-0.822	-0.822
		Vz	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.79	6.83	4.87	2.92	0.96	-1.00	-2.96	-4.92	-6.87
		Mz	-4.97	-4.34	-3.70	-3.07	-2.44	-1.80	-1.17	-0.54	0.10
	TB-450-A1	N	11.758	11.758	11.758	11.758	11.758	11.758	11.758	11.758	11.758
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.13	-1.60	-1.06	-0.52	0.02	0.56	1.10	1.63	2.17
		Mz	0.37	0.32	0.27	0.22	0.17	0.12	0.07	0.03	-0.02
	TB-450-A2	N	28.100	28.100	28.100	28.100	28.100	28.100	28.100	28.100	28.100
		Vy	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
		Vz	-1.665	-1.665	-1.665	-1.665	-1.665	-1.665	-1.665	-1.665	-1.665
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.08	-3.80	-2.52	-1.23	0.05	1.33	2.61	3.90	5.18
		Mz	0.41	0.36	0.30	0.25	0.19	0.14	0.09	0.03	-0.02
	TB-450-B1	N	29.658	29.658	29.658	29.658	29.658	29.658	29.658	29.658	29.658
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-1.316	-1.316	-1.316	-1.316	-1.316	-1.316	-1.316	-1.316	-1.316
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
		My	-3.83	-2.82	-1.80	-0.79	0.23	1.24	2.25	3.27	4.28
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	TB-450-B2	N	69.978	69.978	69.978	69.978	69.978	69.978	69.978	69.978	69.978
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-3.111	-3.111	-3.111	-3.111	-3.111	-3.111	-3.111	-3.111	-3.111
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.06	-6.66	-4.26	-1.87	0.53	2.93	5.32	7.72	10.12
		Mz	0.09	0.08	0.07	0.06	0.05	0.04	0.02	0.01	0.00
	TB-450-C1	N	-25.799	-25.799	-25.799	-25.799	-25.799	-25.799	-25.799	-25.799	-25.799
		Vy	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033
		Vz	3.566	3.566	3.566	3.566	3.566	3.566	3.566	3.566	3.566
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.02	9.27	6.53	3.78	1.03	-1.72	-4.47	-7.21	-9.96
		Mz	-6.26	-5.46	-4.66	-3.87	-3.07	-2.28	-1.48	-0.68	0.11
	TB-450-C2	N	-8.687	-8.687	-8.687	-8.687	-8.687	-8.687	-8.687	-8.687	-8.687
		Vy	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031
		Vz	1.439	1.439	1.439	1.439	1.439	1.439	1.439	1.439	1.439
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.89	3.78	2.67	1.56	0.45	-0.65	-1.76	-2.87	-3.98
		Mz	-6.23	-5.43	-4.64	-3.84	-3.05	-2.25	-1.46	-0.67	0.13
	TB-450-D1	N	-25.850	-25.850	-25.850	-25.850	-25.850	-25.850	-25.850	-25.850	-25.850
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	1.899	1.899	1.899	1.899	1.899	1.899	1.899	1.899	1.899
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.92	4.45	2.99	1.53	0.06	-1.40	-2.86	-4.32	-5.79
		Mz	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00
	TB-450-D2	N	-61.159	-61.159	-61.159	-61.159	-61.159	-61.159	-61.159	-61.159	-61.159
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	4.481	4.481	4.481	4.481	4.481	4.481	4.481	4.481	4.481
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.96	10.50	7.05	3.60	0.15	-3.31	-6.76	-10.21	-13.66
		Mz	-0.14	-0.12	-0.10	-0.08	-0.06	-0.05	-0.03	-0.01	0.01
	TB-450-E1	N	-7.841	-7.841	-7.841	-7.841	-7.841	-7.841	-7.841	-7.841	-7.841
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.80	1.36	0.91	0.46	0.02	-0.43	-0.88	-1.32	-1.77
		Mz	-0.17	-0.14	-0.12	-0.10	-0.08	-0.06	-0.03	-0.01	0.01
	TB-450-E2	N	-21.600	-21.600	-21.600	-21.600	-21.600	-21.600	-21.600	-21.600	-21.600

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
		Vy	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073
		Vz	1.590	1.590	1.590	1.590	1.590	1.590	1.590	1.590	1.590
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.94	3.72	2.49	1.27	0.04	-1.18	-2.41	-3.63	-4.86
		Mz	-0.42	-0.37	-0.31	-0.26	-0.20	-0.14	-0.09	-0.03	0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
N196/N177	Peso próprio	N	18.168	18.944	19.721	20.497	21.273	22.050	22.826	23.602	24.379
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-1.063	-0.953	-0.844	-0.734	-0.625	-0.515	-0.406	-0.296	-0.187
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.78	-1.00	-0.30	0.31	0.84	1.28	1.64	1.91	2.10
		Mz	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.09
	Guarda Corpo	N	8.556	8.556	8.556	8.556	8.556	8.556	8.556	8.556	8.556
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.35	-0.22	-0.10	0.03	0.16	0.29	0.41	0.54	0.67
		Mz	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03
	Laje	N	61.881	61.881	61.881	61.881	61.881	61.881	61.881	61.881	61.881
		Vy	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vz	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167	-1.167
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.45	-1.54	-0.63	0.27	1.18	2.09	2.99	3.90	4.81
		Mz	0.60	0.56	0.53	0.49	0.46	0.42	0.39	0.35	0.31
	Pavimentação	N	34.185	34.185	34.185	34.185	34.185	34.185	34.185	34.185	34.185
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.35	-0.85	-0.35	0.15	0.65	1.15	1.66	2.16	2.66
		Mz	0.34	0.32	0.30	0.28	0.26	0.24	0.22	0.20	0.18
	Recapeamento	N	15.335	15.335	15.335	15.335	15.335	15.335	15.335	15.335	15.335
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-0.289	-0.289	-0.289	-0.289	-0.289	-0.289	-0.289	-0.289	-0.289
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.61	-0.38	-0.16	0.07	0.29	0.52	0.74	0.97	1.19
		Mz	0.15	0.14	0.13	0.13	0.12	0.11	0.10	0.09	0.08

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
	Vento 0	N	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.37	-0.33	-0.29	-0.25	-0.21	-0.17	-0.13	-0.09	-0.05
		Mz	-0.76	-0.75	-0.75	-0.74	-0.74	-0.73	-0.73	-0.73	-0.72
	Vento 180	N	-0.847	-0.820	-0.793	-0.766	-0.739	-0.712	-0.685	-0.658	-0.630
		Vy	2.671	1.998	1.326	0.654	-0.018	-0.691	-1.363	-2.035	-2.708
		Vz	0.829	0.637	0.445	0.253	0.061	-0.131	-0.323	-0.515	-0.706
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	1.15	0.59	0.16	-0.11	-0.23	-0.20	-0.03	0.30	0.78
		Mz	0.22	-1.59	-2.88	-3.65	-3.90	-3.63	-2.83	-1.51	0.34
	Multidão (Passeio)	N	11.443	11.443	11.443	11.443	11.443	11.443	11.443	11.443	11.443
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.48	-0.31	-0.14	0.03	0.21	0.38	0.55	0.73	0.90
		Mz	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02
	Multidão - TB450	N	34.425	34.425	34.425	34.425	34.425	34.425	34.425	34.425	34.425
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.32	-0.82	-0.32	0.17	0.67	1.17	1.67	2.16	2.66
		Mz	0.44	0.42	0.39	0.36	0.34	0.31	0.29	0.26	0.23
	TB-450-A1	N	-9.453	-9.453	-9.453	-9.453	-9.453	-9.453	-9.453	-9.453	-9.453
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.14	1.61	1.07	0.54	0.01	-0.53	-1.06	-1.60	-2.13
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A2	N	-22.599	-22.599	-22.599	-22.599	-22.599	-22.599	-22.599	-22.599	-22.599
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.12	3.84	2.57	1.29	0.02	-1.26	-2.54	-3.81	-5.09
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-B1	N	-23.362	-23.362	-23.362	-23.362	-23.362	-23.362	-23.362	-23.362	-23.362
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	1.728	1.728	1.728	1.728	1.728	1.728	1.728	1.728	1.728

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.52	4.18	2.84	1.49	0.15	-1.19	-2.54	-3.88	-5.22
		Mz	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	TB-450-B2	N	-55.149	-55.149	-55.149	-55.149	-55.149	-55.149	-55.149	-55.149	-55.149
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	4.080	4.080	4.080	4.080	4.080	4.080	4.080	4.080	4.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.04	9.86	6.69	3.52	0.35	-2.82	-5.99	-9.16	-12.34
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-C1	N	49.263	49.263	49.263	49.263	49.263	49.263	49.263	49.263	49.263
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	-1.070	-1.070	-1.070	-1.070	-1.070	-1.070	-1.070	-1.070	-1.070
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.46	-1.63	-0.79	0.04	0.87	1.70	2.53	3.37	4.20
		Mz	0.58	0.54	0.51	0.48	0.44	0.41	0.37	0.34	0.30
	TB-450-C2	N	18.577	18.577	18.577	18.577	18.577	18.577	18.577	18.577	18.577
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.80	-0.51	-0.21	0.08	0.37	0.66	0.95	1.24	1.53
		Mz	0.53	0.50	0.47	0.44	0.41	0.38	0.35	0.32	0.30
	TB-450-D1	N	29.678	29.678	29.678	29.678	29.678	29.678	29.678	29.678	29.678
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.67	-4.25	-2.82	-1.40	0.02	1.45	2.87	4.29	5.71
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	70.136	70.136	70.136	70.136	70.136	70.136	70.136	70.136	70.136
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-4.331	-4.331	-4.331	-4.331	-4.331	-4.331	-4.331	-4.331	-4.331
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.42	-10.05	-6.69	-3.32	0.05	3.41	6.78	10.15	13.52
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	9.249	9.249	9.249	9.249	9.249	9.249	9.249	9.249	9.249
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.80	-1.35	-0.90	-0.45	0.00	0.44	0.89	1.34	1.79
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
	TB-450-E2	N	25.452	25.452	25.452	25.452	25.452	25.452	25.452	25.452	25.452
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-1.591	-1.591	-1.591	-1.591	-1.591	-1.591	-1.591	-1.591	-1.591
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.96	-3.72	-2.49	-1.25	-0.01	1.22	2.46	3.70	4.93
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
N197/N179	Peso próprio	N	18.677	19.449	20.222	20.994	21.767	22.539	23.312	24.085	24.857
		Vy	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213
		Vz	-1.105	-0.995	-0.886	-0.776	-0.667	-0.557	-0.448	-0.338	-0.229
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.91	-1.09	-0.37	0.28	0.83	1.31	1.70	2.00	2.22
		Mz	-0.30	-0.13	0.03	0.19	0.36	0.52	0.69	0.85	1.02
	Guarda Corpo	N	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.36	-0.23	-0.11	0.02	0.15	0.28	0.41	0.54	0.67
		Mz	-0.05	-0.05	-0.05	-0.04	-0.04	-0.04	-0.03	-0.03	-0.03
	Laje	N	63.137	63.137	63.137	63.137	63.137	63.137	63.137	63.137	63.137
		Vy	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057
		Vz	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253	-1.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.74	-1.78	-0.81	0.16	1.13	2.10	3.07	4.04	5.01
		Mz	-0.57	-0.53	-0.48	-0.44	-0.40	-0.35	-0.31	-0.26	-0.22
	Pavimentação	N	34.934	34.934	34.934	34.934	34.934	34.934	34.934	34.934	34.934
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.53	-0.99	-0.45	0.09	0.63	1.17	1.71	2.24	2.78
		Mz	-0.33	-0.30	-0.27	-0.25	-0.22	-0.20	-0.17	-0.15	-0.12
	Recapeamento	N	15.665	15.665	15.665	15.665	15.665	15.665	15.665	15.665	15.665
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.68	-0.44	-0.20	0.04	0.28	0.52	0.76	1.00	1.25

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
		Mz	-0.15	-0.13	-0.12	-0.11	-0.10	-0.09	-0.08	-0.07	-0.05
	Vento 0	N	-6.709	-6.709	-6.709	-6.709	-6.709	-6.709	-6.709	-6.709	-6.709
		Vy	3.662	3.662	3.662	3.662	3.662	3.662	3.662	3.662	3.662
		Vz	0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.599
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	1.51	1.04	0.58	0.12	-0.35	-0.81	-1.28	-1.74	-2.20
		Mz	4.52	1.69	-1.14	-3.98	-6.81	-9.64	-12.47	-15.31	-18.14
	Vento 180	N	6.674	6.647	6.620	6.592	6.565	6.538	6.511	6.484	6.457
		Vy	-6.191	-5.522	-4.853	-4.184	-3.515	-2.846	-2.177	-1.507	-0.838
		Vz	-1.359	-1.168	-0.977	-0.786	-0.595	-0.404	-0.213	-0.022	0.169
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-2.25	-1.27	-0.44	0.24	0.77	1.16	1.40	1.49	1.43
		Mz	-3.81	0.73	4.74	8.24	11.21	13.67	15.62	17.04	17.95
	Multidão (Passeio)	N	11.300	11.300	11.300	11.300	11.300	11.300	11.300	11.300	11.300
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.215	-0.215	-0.215	-0.215	-0.215	-0.215	-0.215	-0.215	-0.215
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.46	-0.30	-0.13	0.03	0.20	0.37	0.53	0.70	0.86
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.04	-0.04
	Multidão - TB450	N	35.663	35.663	35.663	35.663	35.663	35.663	35.663	35.663	35.663
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048
		Vz	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722	-0.722
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.59	-1.03	-0.47	0.09	0.64	1.20	1.76	2.32	2.88
		Mz	-0.43	-0.39	-0.35	-0.32	-0.28	-0.24	-0.20	-0.17	-0.13
	TB-450-A1	N	10.318	10.318	10.318	10.318	10.318	10.318	10.318	10.318	10.318
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.04	-1.53	-1.03	-0.52	-0.01	0.49	1.00	1.51	2.02
		Mz	0.05	0.01	-0.02	-0.06	-0.09	-0.12	-0.16	-0.19	-0.23
	TB-450-A2	N	24.742	24.742	24.742	24.742	24.742	24.742	24.742	24.742	24.742
		Vy	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vz	-1.574	-1.574	-1.574	-1.574	-1.574	-1.574	-1.574	-1.574	-1.574
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.90	-3.68	-2.46	-1.24	-0.02	1.19	2.41	3.63	4.85
		Mz	0.06	0.02	-0.02	-0.05	-0.09	-0.12	-0.16	-0.19	-0.23
	TB-450-B1	N	29.435	29.435	29.435	29.435	29.435	29.435	29.435	29.435	29.435
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
		Vz	-1.854	-1.854	-1.854	-1.854	-1.854	-1.854	-1.854	-1.854	-1.854
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.72	-4.29	-2.85	-1.42	0.02	1.45	2.88	4.32	5.75
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
	TB-450-B2	N	69.397	69.397	69.397	69.397	69.397	69.397	69.397	69.397	69.397
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-4.369	-4.369	-4.369	-4.369	-4.369	-4.369	-4.369	-4.369	-4.369
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.49	-10.11	-6.73	-3.34	0.04	3.42	6.80	10.18	13.56
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04
	TB-450-C1	N	51.895	51.895	51.895	51.895	51.895	51.895	51.895	51.895	51.895
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.02	-2.05	-1.08	-0.11	0.86	1.83	2.79	3.76	4.73
		Mz	-0.54	-0.51	-0.47	-0.44	-0.40	-0.37	-0.33	-0.29	-0.26
	TB-450-C2	N	21.490	21.490	21.490	21.490	21.490	21.490	21.490	21.490	21.490
		Vy	-0.104	-0.104	-0.104	-0.104	-0.104	-0.104	-0.104	-0.104	-0.104
		Vz	-0.573	-0.573	-0.573	-0.573	-0.573	-0.573	-0.573	-0.573	-0.573
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.41	-0.97	-0.53	-0.08	0.36	0.80	1.24	1.69	2.13
		Mz	-0.54	-0.46	-0.38	-0.30	-0.22	-0.14	-0.06	0.02	0.10
	TB-450-D1	N	-23.177	-23.177	-23.177	-23.177	-23.177	-23.177	-23.177	-23.177	-23.177
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	1.755	1.755	1.755	1.755	1.755	1.755	1.755	1.755	1.755
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.57	4.22	2.86	1.50	0.14	-1.21	-2.57	-3.93	-5.29
		Mz	0.01	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04
	TB-450-D2	N	-55.099	-55.099	-55.099	-55.099	-55.099	-55.099	-55.099	-55.099	-55.099
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	4.165	4.165	4.165	4.165	4.165	4.165	4.165	4.165	4.165
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.23	10.00	6.78	3.56	0.34	-2.89	-6.11	-9.33	-12.55
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	TB-450-E1	N	-8.249	-8.249	-8.249	-8.249	-8.249	-8.249	-8.249	-8.249	-8.249
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.90	1.43	0.95	0.48	0.01	-0.47	-0.94	-1.41	-1.89

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
		Mz	-0.02	-0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.08
	TB-450-E2	N	-22.882	-22.882	-22.882	-22.882	-22.882	-22.882	-22.882	-22.882	-22.882
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	1.695	1.695	1.695	1.695	1.695	1.695	1.695	1.695	1.695
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.26	3.95	2.64	1.33	0.02	-1.29	-2.61	-3.92	-5.23
		Mz	-0.06	-0.03	0.01	0.04	0.07	0.11	0.14	0.18	0.21

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
N198/N180	Peso próprio	N	-21.359	-20.586	-19.813	-19.040	-18.267	-17.494	-16.721	-15.948	-15.175
		Vy	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515
		Vz	1.838	1.948	2.057	2.167	2.277	2.387	2.496	2.606	2.716
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.46	6.00	4.44	2.81	1.09	-0.72	-2.61	-4.58	-6.64
		Mz	2.00	1.60	1.21	0.81	0.41	0.01	-0.39	-0.79	-1.19
	Guarda Corpo	N	-1.605	-1.605	-1.605	-1.605	-1.605	-1.605	-1.605	-1.605	-1.605
		Vy	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
		Vz	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.11	1.64	1.17	0.70	0.23	-0.24	-0.71	-1.18	-1.65
		Mz	0.44	0.39	0.33	0.27	0.22	0.16	0.11	0.05	0.00
	Laje	N	-11.303	-11.303	-11.303	-11.303	-11.303	-11.303	-11.303	-11.303	-11.303
		Vy	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
		Vz	4.515	4.515	4.515	4.515	4.515	4.515	4.515	4.515	4.515
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.73	12.23	8.73	5.24	1.74	-1.75	-5.25	-8.75	-12.24
		Mz	4.82	4.20	3.58	2.96	2.34	1.72	1.10	0.49	-0.13
	Pavimentação	N	-6.429	-6.429	-6.429	-6.429	-6.429	-6.429	-6.429	-6.429	-6.429
		Vy	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455
		Vz	2.501	2.501	2.501	2.501	2.501	2.501	2.501	2.501	2.501
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.71	6.77	4.83	2.90	0.96	-0.97	-2.91	-4.85	-6.78
		Mz	2.74	2.39	2.03	1.68	1.33	0.98	0.63	0.27	-0.08
	Recapeamento	N	-2.802	-2.802	-2.802	-2.802	-2.802	-2.802	-2.802	-2.802	-2.802
		Vy	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
		Vz	1.121	1.121	1.121	1.121	1.121	1.121	1.121	1.121	1.121
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
		My	3.91	3.04	2.17	1.30	0.43	-0.44	-1.30	-2.17	-3.04
		Mz	1.23	1.07	0.91	0.75	0.60	0.44	0.28	0.12	-0.04
	Vento 0	N	7.636	7.636	7.636	7.636	7.636	7.636	7.636	7.636	7.636
		Vy	-8.160	-8.160	-8.160	-8.160	-8.160	-8.160	-8.160	-8.160	-8.160
		Vz	-1.455	-1.455	-1.455	-1.455	-1.455	-1.455	-1.455	-1.455	-1.455
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-4.94	-3.81	-2.68	-1.56	-0.43	0.69	1.82	2.95	4.07
		Mz	-29.58	-23.26	-16.94	-10.62	-4.31	2.01	8.33	14.65	20.97
	Vento 180	N	-7.541	-7.514	-7.487	-7.459	-7.432	-7.405	-7.378	-7.351	-7.324
		Vy	10.902	10.233	9.563	8.893	8.224	7.554	6.885	6.215	5.546
		Vz	2.234	2.043	1.852	1.661	1.470	1.279	1.088	0.897	0.706
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	5.76	4.10	2.60	1.24	0.02	-1.04	-1.96	-2.72	-3.34
		Mz	30.11	21.92	14.26	7.12	0.49	-5.62	-11.21	-16.28	-20.83
	Multidão (Passeio)	N	-2.204	-2.204	-2.204	-2.204	-2.204	-2.204	-2.204	-2.204	-2.204
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	0.784	0.784	0.784	0.784	0.784	0.784	0.784	0.784	0.784
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.73	2.12	1.51	0.90	0.30	-0.31	-0.92	-1.52	-2.13
		Mz	0.24	0.22	0.19	0.16	0.13	0.10	0.07	0.05	0.02
	Multidão - TB450	N	-6.146	-6.146	-6.146	-6.146	-6.146	-6.146	-6.146	-6.146	-6.146
		Vy	0.605	0.605	0.605	0.605	0.605	0.605	0.605	0.605	0.605
		Vz	2.585	2.585	2.585	2.585	2.585	2.585	2.585	2.585	2.585
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.01	7.01	5.01	3.01	1.00	-1.00	-3.00	-5.00	-7.00
		Mz	3.61	3.14	2.67	2.21	1.74	1.27	0.80	0.33	-0.13
	TB-450-A1	N	-8.835	-8.835	-8.835	-8.835	-8.835	-8.835	-8.835	-8.835	-8.835
		Vy	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095
		Vz	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.95	1.46	0.98	0.50	0.01	-0.47	-0.95	-1.44	-1.92
		Mz	-0.33	-0.26	-0.19	-0.11	-0.04	0.03	0.11	0.18	0.25
	TB-450-A2	N	-21.231	-21.231	-21.231	-21.231	-21.231	-21.231	-21.231	-21.231	-21.231
		Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
		Vz	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513	1.513
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.73	3.55	2.38	1.21	0.04	-1.13	-2.30	-3.48	-4.65
		Mz	-0.33	-0.26	-0.19	-0.11	-0.04	0.04	0.11	0.19	0.26
	TB-450-B1	N	-26.007	-26.007	-26.007	-26.007	-26.007	-26.007	-26.007	-26.007	-26.007

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	1.863	1.863	1.863	1.863	1.863	1.863	1.863	1.863	1.863
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.84	4.40	2.95	1.51	0.07	-1.37	-2.82	-4.26	-5.70
		Mz	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04
	TB-450-B2	N	-61.341	-61.341	-61.341	-61.341	-61.341	-61.341	-61.341	-61.341	-61.341
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	4.390	4.390	4.390	4.390	4.390	4.390	4.390	4.390	4.390
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.75	10.36	6.96	3.56	0.16	-3.24	-6.64	-10.04	-13.43
		Mz	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03
	TB-450-C1	N	-28.974	-28.974	-28.974	-28.974	-28.974	-28.974	-28.974	-28.974	-28.974
		Vy	0.772	0.772	0.772	0.772	0.772	0.772	0.772	0.772	0.772
		Vz	3.695	3.695	3.695	3.695	3.695	3.695	3.695	3.695	3.695
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.53	9.66	6.80	3.94	1.08	-1.78	-4.64	-7.50	-10.36
		Mz	4.72	4.12	3.52	2.92	2.32	1.73	1.13	0.53	-0.07
	TB-450-C2	N	-11.977	-11.977	-11.977	-11.977	-11.977	-11.977	-11.977	-11.977	-11.977
		Vy	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787
		Vz	1.615	1.615	1.615	1.615	1.615	1.615	1.615	1.615	1.615
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.49	4.24	2.99	1.74	0.49	-0.76	-2.01	-3.27	-4.52
		Mz	4.45	3.84	3.23	2.62	2.01	1.40	0.79	0.18	-0.43
	TB-450-D1	N	29.806	29.806	29.806	29.806	29.806	29.806	29.806	29.806	29.806
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-1.298	-1.298	-1.298	-1.298	-1.298	-1.298	-1.298	-1.298	-1.298
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.79	-2.79	-1.78	-0.78	0.23	1.23	2.24	3.24	4.25
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	TB-450-D2	N	70.735	70.735	70.735	70.735	70.735	70.735	70.735	70.735	70.735
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	-3.089	-3.089	-3.089	-3.089	-3.089	-3.089	-3.089	-3.089	-3.089
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.03	-6.64	-4.25	-1.85	0.54	2.93	5.32	7.71	10.10
		Mz	-0.11	-0.10	-0.08	-0.06	-0.05	-0.03	-0.01	0.00	0.02
	TB-450-E1	N	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388
		Vy	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Vz	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
		My	-1.82	-1.36	-0.90	-0.44	0.02	0.48	0.94	1.40	1.86
		Mz	0.16	0.13	0.10	0.06	0.03	0.00	-0.03	-0.06	-0.10
	TB-450-E2	N	28.797	28.797	28.797	28.797	28.797	28.797	28.797	28.797	28.797
		Vy	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099
		Vz	-1.656	-1.656	-1.656	-1.656	-1.656	-1.656	-1.656	-1.656	-1.656
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.07	-3.79	-2.50	-1.22	0.06	1.34	2.62	3.91	5.19
		Mz	0.36	0.29	0.21	0.13	0.06	-0.02	-0.10	-0.17	-0.25

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N199/N181	Peso próprio	N	65.668	66.411	67.154	67.897	68.640	69.382	70.125	70.868	71.611
		Vy	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321	-0.321
		Vz	-4.822	-4.712	-4.602	-4.492	-4.382	-4.273	-4.163	-4.053	-3.943
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.93	-9.38	-5.91	-2.52	0.78	4.00	7.14	10.20	13.18
		Mz	-1.83	-1.59	-1.35	-1.11	-0.88	-0.64	-0.40	-0.16	0.08
	Guarda Corpo	N	22.060	22.060	22.060	22.060	22.060	22.060	22.060	22.060	22.060
		Vy	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078
		Vz	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.41	-2.52	-1.63	-0.73	0.16	1.05	1.95	2.84	3.73
		Mz	-0.45	-0.40	-0.34	-0.28	-0.22	-0.17	-0.11	-0.05	0.01
	Laje	N	163.949	163.949	163.949	163.949	163.949	163.949	163.949	163.949	163.949
		Vy	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841
		Vz	-8.921	-8.921	-8.921	-8.921	-8.921	-8.921	-8.921	-8.921	-8.921
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-25.41	-18.77	-12.13	-5.48	1.16	7.80	14.44	21.09	27.73
		Mz	-4.93	-4.30	-3.67	-3.05	-2.42	-1.79	-1.17	-0.54	0.09
	Pavimentação	N	90.488	90.488	90.488	90.488	90.488	90.488	90.488	90.488	90.488
		Vy	-0.478	-0.478	-0.478	-0.478	-0.478	-0.478	-0.478	-0.478	-0.478
		Vz	-4.929	-4.929	-4.929	-4.929	-4.929	-4.929	-4.929	-4.929	-4.929
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.05	-10.38	-6.71	-3.04	0.63	4.31	7.98	11.65	15.32
		Mz	-2.80	-2.44	-2.09	-1.73	-1.37	-1.02	-0.66	-0.31	0.05
	Recapeamento	N	40.702	40.702	40.702	40.702	40.702	40.702	40.702	40.702	40.702
		Vy	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214
		Vz	-2.215	-2.215	-2.215	-2.215	-2.215	-2.215	-2.215	-2.215	-2.215

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.31	-4.66	-3.01	-1.36	0.29	1.94	3.59	5.24	6.89
		Mz	-1.25	-1.09	-0.93	-0.77	-0.61	-0.46	-0.30	-0.14	0.02
	Vento 0	N	-25.764	-25.764	-25.764	-25.764	-25.764	-25.764	-25.764	-25.764	-25.764
		Vy	4.763	4.763	4.763	4.763	4.763	4.763	4.763	4.763	4.763
		Vz	1.878	1.878	1.878	1.878	1.878	1.878	1.878	1.878	1.878
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	5.95	4.55	3.15	1.75	0.35	-1.05	-2.45	-3.84	-5.24
		Mz	26.98	23.43	19.89	16.34	12.79	9.25	5.70	2.15	-1.39
	Vento 180	N	25.962	25.935	25.908	25.881	25.853	25.826	25.799	25.772	25.745
		Vy	-7.486	-6.842	-6.198	-5.554	-4.910	-4.266	-3.622	-2.978	-2.334
		Vz	-2.638	-2.454	-2.271	-2.087	-1.903	-1.720	-1.536	-1.353	-1.169
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-6.73	-4.84	-3.08	-1.46	0.03	1.38	2.59	3.67	4.61
		Mz	-27.38	-22.05	-17.19	-12.81	-8.92	-5.50	-2.56	-0.11	1.87
	Multidão (Passeio)	N	28.580	28.580	28.580	28.580	28.580	28.580	28.580	28.580	28.580
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	-1.552	-1.552	-1.552	-1.552	-1.552	-1.552	-1.552	-1.552	-1.552
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.41	-3.25	-2.10	-0.94	0.21	1.37	2.52	3.68	4.83
		Mz	-0.26	-0.23	-0.19	-0.16	-0.13	-0.09	-0.06	-0.03	0.01
	Multidão - TB450	N	93.666	93.666	93.666	93.666	93.666	93.666	93.666	93.666	93.666
		Vy	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627
		Vz	-5.102	-5.102	-5.102	-5.102	-5.102	-5.102	-5.102	-5.102	-5.102
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.55	-10.75	-6.95	-3.15	0.65	4.45	8.25	12.05	15.84
		Mz	-3.67	-3.21	-2.74	-2.27	-1.80	-1.34	-0.87	-0.40	0.06
	TB-450-A1	N	9.770	9.770	9.770	9.770	9.770	9.770	9.770	9.770	9.770
		Vy	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
		Vz	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.05	-1.54	-1.03	-0.52	0.00	0.51	1.02	1.53	2.04
		Mz	0.29	0.25	0.21	0.17	0.13	0.10	0.06	0.02	-0.02
	TB-450-A2	N	23.745	23.745	23.745	23.745	23.745	23.745	23.745	23.745	23.745
		Vy	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vz	-1.671	-1.671	-1.671	-1.671	-1.671	-1.671	-1.671	-1.671	-1.671
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.99	-3.75	-2.50	-1.26	-0.01	1.23	2.48	3.72	4.96
		Mz	0.30	0.26	0.22	0.18	0.14	0.10	0.06	0.02	-0.02

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
	TB-450-B1	N	29.884	29.884	29.884	29.884	29.884	29.884	29.884	29.884	29.884
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-2.098	-2.098	-2.098	-2.098	-2.098	-2.098	-2.098	-2.098	-2.098
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.26	-4.70	-3.14	-1.57	-0.01	1.55	3.11	4.68	6.24
		Mz	-0.03	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00
	TB-450-B2	N	70.277	70.277	70.277	70.277	70.277	70.277	70.277	70.277	70.277
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-4.937	-4.937	-4.937	-4.937	-4.937	-4.937	-4.937	-4.937	-4.937
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.73	-11.06	-7.38	-3.70	-0.03	3.65	7.32	11.00	14.68
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-C1	N	103.702	103.702	103.702	103.702	103.702	103.702	103.702	103.702	103.702
		Vy	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814
		Vz	-6.162	-6.162	-6.162	-6.162	-6.162	-6.162	-6.162	-6.162	-6.162
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-18.01	-13.42	-8.83	-4.25	0.34	4.93	9.52	14.11	18.70
		Mz	-4.78	-4.17	-3.56	-2.96	-2.35	-1.74	-1.14	-0.53	0.07
	TB-450-C2	N	44.450	44.450	44.450	44.450	44.450	44.450	44.450	44.450	44.450
		Vy	-0.762	-0.762	-0.762	-0.762	-0.762	-0.762	-0.762	-0.762	-0.762
		Vz	-2.667	-2.667	-2.667	-2.667	-2.667	-2.667	-2.667	-2.667	-2.667
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.84	-5.85	-3.87	-1.88	0.11	2.09	4.08	6.06	8.05
		Mz	-4.46	-3.89	-3.32	-2.75	-2.19	-1.62	-1.05	-0.48	0.08
	TB-450-D1	N	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.10	1.67	1.25	0.82	0.39	-0.03	-0.46	-0.89	-1.31
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	1.673	1.673	1.673	1.673	1.673	1.673	1.673	1.673	1.673
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.06	4.03	2.99	1.96	0.92	-0.11	-1.15	-2.18	-3.22
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-E1	N	-8.027	-8.027	-8.027	-8.027	-8.027	-8.027	-8.027	-8.027	-8.027
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.89	1.42	0.95	0.48	0.01	-0.46	-0.93	-1.40	-1.86
		Mz	-0.14	-0.12	-0.10	-0.09	-0.07	-0.05	-0.03	-0.01	0.01
	TB-450-E2	N	-22.635	-22.635	-22.635	-22.635	-22.635	-22.635	-22.635	-22.635	-22.635
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	1.773	1.773	1.773	1.773	1.773	1.773	1.773	1.773	1.773
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.31	3.99	2.67	1.35	0.03	-1.29	-2.61	-3.93	-5.25
		Mz	-0.35	-0.30	-0.26	-0.21	-0.16	-0.12	-0.07	-0.03	0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N200/N182	Peso próprio	N	-91.724	-90.954	-90.184	-89.414	-88.645	-87.875	-87.105	-86.335	-85.565
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	5.226	5.336	5.445	5.555	5.665	5.775	5.885	5.995	6.105
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	17.88	13.81	9.65	5.41	1.09	-3.32	-7.82	-12.40	-17.06
		Mz	0.10	0.09	0.09	0.08	0.07	0.07	0.06	0.05	0.05
	Guarda Corpo	N	-21.510	-21.510	-21.510	-21.510	-21.510	-21.510	-21.510	-21.510	-21.510
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	1.588	1.588	1.588	1.588	1.588	1.588	1.588	1.588	1.588
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.14	3.91	2.69	1.46	0.24	-0.98	-2.21	-3.43	-4.66
		Mz	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02
	Laje	N	-159.770	-159.770	-159.770	-159.770	-159.770	-159.770	-159.770	-159.770	-159.770
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	11.785	11.785	11.785	11.785	11.785	11.785	11.785	11.785	11.785
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.13	29.05	19.96	10.87	1.78	-7.30	-16.39	-25.48	-34.56
		Mz	0.42	0.39	0.37	0.34	0.31	0.28	0.25	0.23	0.20
	Pavimentação	N	-88.224	-88.224	-88.224	-88.224	-88.224	-88.224	-88.224	-88.224	-88.224
		Vy	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Vz	6.496	6.496	6.496	6.496	6.496	6.496	6.496	6.496	6.496
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.01	16.01	11.00	5.99	0.98	-4.03	-9.04	-14.05	-19.06
		Mz	0.24	0.22	0.21	0.19	0.18	0.16	0.14	0.13	0.11
	Recapeamento	N	-39.665	-39.665	-39.665	-39.665	-39.665	-39.665	-39.665	-39.665	-39.665
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	2.925	2.925	2.925	2.925	2.925	2.925	2.925	2.925	2.925

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.47	7.21	4.95	2.70	0.44	-1.81	-4.07	-6.32	-8.58
		Mz	0.11	0.10	0.09	0.09	0.08	0.07	0.06	0.06	0.05
	Vento 0	N	24.848	24.848	24.848	24.848	24.848	24.848	24.848	24.848	24.848
		Vy	-0.567	-0.567	-0.567	-0.567	-0.567	-0.567	-0.567	-0.567	-0.567
		Vz	-1.448	-1.448	-1.448	-1.448	-1.448	-1.448	-1.448	-1.448	-1.448
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.55	-3.43	-2.31	-1.20	-0.08	1.04	2.15	3.27	4.38
		Mz	-3.86	-3.43	-2.99	-2.55	-2.11	-1.68	-1.24	-0.80	-0.37
	Vento 180	N	-25.124	-25.097	-25.070	-25.043	-25.016	-24.988	-24.961	-24.934	-24.907
		Vy	3.203	2.536	1.870	1.203	0.536	-0.131	-0.798	-1.464	-2.131
		Vz	2.214	2.024	1.834	1.644	1.453	1.263	1.073	0.883	0.692
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.31	3.68	2.19	0.85	-0.35	-1.39	-2.29	-3.05	-3.66
		Mz	3.36	1.14	-0.55	-1.74	-2.41	-2.57	-2.21	-1.34	0.05
	Multidão (Passeio)	N	-27.886	-27.886	-27.886	-27.886	-27.886	-27.886	-27.886	-27.886	-27.886
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	2.060	2.060	2.060	2.060	2.060	2.060	2.060	2.060	2.060
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.67	5.08	3.49	1.90	0.31	-1.28	-2.87	-4.45	-6.04
		Mz	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Multidão - TB450	N	-91.233	-91.233	-91.233	-91.233	-91.233	-91.233	-91.233	-91.233	-91.233
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	6.724	6.724	6.724	6.724	6.724	6.724	6.724	6.724	6.724
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.76	16.57	11.39	6.20	1.02	-4.17	-9.35	-14.53	-19.72
		Mz	0.32	0.30	0.28	0.26	0.24	0.22	0.19	0.17	0.15
	TB-450-A1	N	-9.913	-9.913	-9.913	-9.913	-9.913	-9.913	-9.913	-9.913	-9.913
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.95	1.47	0.98	0.50	0.02	-0.47	-0.95	-1.43	-1.91
		Mz	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01
	TB-450-A2	N	-24.077	-24.077	-24.077	-24.077	-24.077	-24.077	-24.077	-24.077	-24.077
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.73	3.56	2.39	1.21	0.04	-1.13	-2.30	-3.47	-4.64
		Mz	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00
	TB-450-B1	N	-30.424	-30.424	-30.424	-30.424	-30.424	-30.424	-30.424	-30.424	-30.424
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	1.918	1.918	1.918	1.918	1.918	1.918	1.918	1.918	1.918

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.97	4.50	3.02	1.54	0.06	-1.42	-2.90	-4.38	-5.86
		Mz	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00
	TB-450-B2	N	-71.561	-71.561	-71.561	-71.561	-71.561	-71.561	-71.561	-71.561	-71.561
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	4.512	4.512	4.512	4.512	4.512	4.512	4.512	4.512	4.512
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.05	10.57	7.09	3.61	0.14	-3.34	-6.82	-10.30	-13.78
		Mz	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	TB-450-C1	N	-105.802	-105.802	-105.802	-105.802	-105.802	-105.802	-105.802	-105.802	-105.802
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	6.665	6.665	6.665	6.665	6.665	6.665	6.665	6.665	6.665
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.10	15.96	10.82	5.68	0.54	-4.60	-9.74	-14.88	-20.02
		Mz	0.37	0.35	0.33	0.31	0.29	0.27	0.25	0.24	0.22
	TB-450-C2	N	-45.238	-45.238	-45.238	-45.238	-45.238	-45.238	-45.238	-45.238	-45.238
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	2.838	2.838	2.838	2.838	2.838	2.838	2.838	2.838	2.838
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.98	6.79	4.60	2.42	0.23	-1.96	-4.15	-6.34	-8.52
		Mz	0.45	0.42	0.39	0.35	0.32	0.29	0.25	0.22	0.19
	TB-450-D1	N	2.552	2.552	2.552	2.552	2.552	2.552	2.552	2.552	2.552
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.36	1.89	1.41	0.93	0.45	-0.02	-0.50	-0.98	-1.46
		Mz	0.10	0.09	0.07	0.06	0.05	0.04	0.03	0.01	0.00
	TB-450-D2	N	6.660	6.660	6.660	6.660	6.660	6.660	6.660	6.660	6.660
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	1.426	1.426	1.426	1.426	1.426	1.426	1.426	1.426	1.426
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.47	4.37	3.27	2.17	1.07	-0.03	-1.13	-2.23	-3.33
		Mz	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-E1	N	7.902	7.902	7.902	7.902	7.902	7.902	7.902	7.902	7.902
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.47	-1.09	-0.71	-0.33	0.05	0.43	0.81	1.19	1.57
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	22.516	22.516	22.516	22.516	22.516	22.516	22.516	22.516	22.516
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-1.409	-1.409	-1.409	-1.409	-1.409	-1.409	-1.409	-1.409	-1.409

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.20	-3.12	-2.03	-0.94	0.14	1.23	2.32	3.40	4.49
		Mz	-0.03	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N201/N183	Peso próprio	N	106.499	107.242	107.985	108.728	109.471	110.214	110.957	111.700	112.443
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-8.411	-8.302	-8.192	-8.082	-7.972	-7.862	-7.752	-7.642	-7.532
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.62	-17.40	-11.26	-5.20	0.78	6.67	12.49	18.22	23.87
		Mz	-0.03	-0.03	-0.03	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04
	Guarda Corpo	N	34.507	34.507	34.507	34.507	34.507	34.507	34.507	34.507	34.507
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-2.262	-2.262	-2.262	-2.262	-2.262	-2.262	-2.262	-2.262	-2.262
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.57	-4.89	-3.21	-1.52	0.16	1.85	3.53	5.22	6.90
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	Laje	N	256.136	256.136	256.136	256.136	256.136	256.136	256.136	256.136	256.136
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	-16.791	-16.791	-16.791	-16.791	-16.791	-16.791	-16.791	-16.791	-16.791
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-48.81	-36.31	-23.80	-11.30	1.21	13.71	26.22	38.72	51.23
		Mz	-0.29	-0.26	-0.22	-0.19	-0.15	-0.12	-0.09	-0.05	-0.02
	Pavimentação	N	140.821	140.821	140.821	140.821	140.821	140.821	140.821	140.821	140.821
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-9.240	-9.240	-9.240	-9.240	-9.240	-9.240	-9.240	-9.240	-9.240
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-26.87	-19.98	-13.10	-6.22	0.66	7.54	14.42	21.30	28.19
		Mz	-0.16	-0.15	-0.13	-0.11	-0.09	-0.07	-0.05	-0.03	-0.01
	Recapeamento	N	63.564	63.564	63.564	63.564	63.564	63.564	63.564	63.564	63.564
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.11	-9.01	-5.91	-2.80	0.30	3.40	6.51	9.61	12.71
		Mz	-0.07	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	Vento 0	N	-21.015	-21.015	-21.015	-21.015	-21.015	-21.015	-21.015	-21.015	-21.015
		Vy	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vz	1.620	1.620	1.620	1.620	1.620	1.620	1.620	1.620	1.620
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.83	3.62	2.41	1.21	0.00	-1.21	-2.41	-3.62	-4.83
		Mz	2.74	2.44	2.14	1.84	1.54	1.24	0.94	0.63	0.33
	Vento 180	N	21.060	21.033	21.006	20.979	20.951	20.924	20.897	20.870	20.843
		Vy	-2.920	-2.276	-1.632	-0.988	-0.344	0.300	0.944	1.588	2.232
		Vz	-2.357	-2.174	-1.990	-1.806	-1.623	-1.439	-1.255	-1.072	-0.888
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.53	-3.84	-2.29	-0.88	0.40	1.54	2.54	3.41	4.14
		Mz	-1.89	0.05	1.50	2.48	2.98	2.99	2.53	1.59	0.17
	Multidão (Passeio)	N	44.790	44.790	44.790	44.790	44.790	44.790	44.790	44.790	44.790
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-2.935	-2.935	-2.935	-2.935	-2.935	-2.935	-2.935	-2.935	-2.935
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.53	-6.35	-4.16	-1.97	0.21	2.40	4.58	6.77	8.95
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Multidão - TB450	N	146.073	146.073	146.073	146.073	146.073	146.073	146.073	146.073	146.073
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-9.579	-9.579	-9.579	-9.579	-9.579	-9.579	-9.579	-9.579	-9.579
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-27.85	-20.71	-13.58	-6.44	0.69	7.82	14.96	22.09	29.22
		Mz	-0.22	-0.19	-0.17	-0.14	-0.12	-0.09	-0.07	-0.04	-0.01
	TB-450-A1	N	9.359	9.359	9.359	9.359	9.359	9.359	9.359	9.359	9.359
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.06	-1.55	-1.03	-0.52	0.00	0.51	1.03	1.54	2.06
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	22.702	22.702	22.702	22.702	22.702	22.702	22.702	22.702	22.702
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-1.679	-1.679	-1.679	-1.679	-1.679	-1.679	-1.679	-1.679	-1.679
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.01	-3.76	-2.51	-1.26	-0.01	1.24	2.49	3.74	4.99
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	28.768	28.768	28.768	28.768	28.768	28.768	28.768	28.768	28.768
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-2.127	-2.127	-2.127	-2.127	-2.127	-2.127	-2.127	-2.127	-2.127
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.34	-4.76	-3.17	-1.59	-0.01	1.58	3.16	4.75	6.33

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Mz	-0.04	-0.03	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-B2	N	67.608	67.608	67.608	67.608	67.608	67.608	67.608	67.608	67.608
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-4.997	-4.997	-4.997	-4.997	-4.997	-4.997	-4.997	-4.997	-4.997
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.90	-11.18	-7.46	-3.74	-0.02	3.70	7.43	11.15	14.87
		Mz	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01
	TB-450-C1	N	107.802	107.802	107.802	107.802	107.802	107.802	107.802	107.802	107.802
		Vy	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034
		Vz	-7.931	-7.931	-7.931	-7.931	-7.931	-7.931	-7.931	-7.931	-7.931
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.55	-17.65	-11.74	-5.83	0.07	5.98	11.88	17.79	23.70
		Mz	-0.22	-0.19	-0.17	-0.14	-0.12	-0.09	-0.06	-0.04	-0.01
	TB-450-C2	N	45.748	45.748	45.748	45.748	45.748	45.748	45.748	45.748	45.748
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048
		Vz	-3.374	-3.374	-3.374	-3.374	-3.374	-3.374	-3.374	-3.374	-3.374
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.02	-7.51	-4.99	-2.48	0.03	2.54	5.06	7.57	10.08
		Mz	-0.31	-0.27	-0.24	-0.20	-0.17	-0.13	-0.09	-0.06	-0.02
	TB-450-D1	N	39.567	39.567	39.567	39.567	39.567	39.567	39.567	39.567	39.567
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.48	-4.01	-2.54	-1.07	0.41	1.88	3.35	4.82	6.29
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	TB-450-D2	N	92.967	92.967	92.967	92.967	92.967	92.967	92.967	92.967	92.967
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-4.622	-4.622	-4.622	-4.622	-4.622	-4.622	-4.622	-4.622	-4.622
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.81	-9.37	-5.93	-2.49	0.96	4.40	7.84	11.28	14.72
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-4.664	-4.664	-4.664	-4.664	-4.664	-4.664	-4.664	-4.664	-4.664
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.363
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.20	0.93	0.66	0.39	0.12	-0.15	-0.42	-0.69	-0.96
		Mz	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00
	TB-450-E2	N	-14.649	-14.649	-14.649	-14.649	-14.649	-14.649	-14.649	-14.649	-14.649
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vz	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.61	2.79	1.96	1.13	0.30	-0.53	-1.36	-2.19	-3.01
		Mz	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N202/N184	Peso próprio	N	-134.722	-133.952	-133.183	-132.413	-131.643	-130.873	-130.104	-129.334	-128.564
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	7.851	7.961	8.071	8.181	8.291	8.401	8.510	8.620	8.730
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.54	19.44	13.26	7.00	0.65	-5.79	-12.31	-18.91	-25.60
		Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
	Guarda Corpo	N	-34.425	-34.425	-34.425	-34.425	-34.425	-34.425	-34.425	-34.425	-34.425
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	2.381	2.381	2.381	2.381	2.381	2.381	2.381	2.381	2.381
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.46	5.62	3.79	1.95	0.12	-1.72	-3.55	-5.39	-7.23
		Mz	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	Laje	N	-255.554	-255.554	-255.554	-255.554	-255.554	-255.554	-255.554	-255.554	-255.554
		Vy	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Vz	17.674	17.674	17.674	17.674	17.674	17.674	17.674	17.674	17.674
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	55.38	41.75	28.13	14.50	0.87	-12.76	-26.39	-40.01	-53.64
		Mz	0.14	0.13	0.11	0.09	0.08	0.06	0.05	0.03	0.01
	Pavimentação	N	-140.554	-140.554	-140.554	-140.554	-140.554	-140.554	-140.554	-140.554	-140.554
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	9.713	9.713	9.713	9.713	9.713	9.713	9.713	9.713	9.713
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	30.43	22.94	15.45	7.96	0.47	-7.02	-14.50	-21.99	-29.48
		Mz	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.01
	Recapeamento	N	-63.422	-63.422	-63.422	-63.422	-63.422	-63.422	-63.422	-63.422	-63.422
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	4.386	4.386	4.386	4.386	4.386	4.386	4.386	4.386	4.386
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.74	10.36	6.98	3.60	0.22	-3.17	-6.55	-9.93	-13.31
		Mz	0.04	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00
	Vento 0	N	22.148	22.148	22.148	22.148	22.148	22.148	22.148	22.148	22.148
		Vy	-0.629	-0.629	-0.629	-0.629	-0.629	-0.629	-0.629	-0.629	-0.629
		Vz	-1.380	-1.380	-1.380	-1.380	-1.380	-1.380	-1.380	-1.380	-1.380

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.24	-3.17	-2.11	-1.04	0.02	1.08	2.15	3.21	4.28
		Mz	-4.20	-3.72	-3.23	-2.74	-2.26	-1.77	-1.29	-0.80	-0.32
	Vento 180	N	-22.215	-22.187	-22.160	-22.133	-22.106	-22.079	-22.052	-22.024	-21.997
		Vy	3.273	2.606	1.939	1.273	0.606	-0.061	-0.728	-1.395	-2.061
		Vz	2.142	1.952	1.762	1.571	1.381	1.191	1.001	0.810	0.620
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	4.99	3.41	1.98	0.69	-0.45	-1.44	-2.28	-2.98	-3.53
		Mz	3.64	1.38	-0.37	-1.61	-2.34	-2.55	-2.24	-1.42	-0.09
	Multidão (Passeio)	N	-44.675	-44.675	-44.675	-44.675	-44.675	-44.675	-44.675	-44.675	-44.675
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090	3.090
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.68	7.30	4.92	2.53	0.15	-2.23	-4.61	-6.99	-9.38
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-145.766	-145.766	-145.766	-145.766	-145.766	-145.766	-145.766	-145.766	-145.766
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	31.59	23.81	16.04	8.27	0.50	-7.28	-15.05	-22.82	-30.59
		Mz	0.12	0.10	0.09	0.08	0.06	0.05	0.04	0.02	0.01
	TB-450-A1	N	-9.572	-9.572	-9.572	-9.572	-9.572	-9.572	-9.572	-9.572	-9.572
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.85	1.39	0.92	0.46	-0.01	-0.47	-0.93	-1.40	-1.86
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A2	N	-23.227	-23.227	-23.227	-23.227	-23.227	-23.227	-23.227	-23.227	-23.227
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	1.458	1.458	1.458	1.458	1.458	1.458	1.458	1.458	1.458
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.48	3.36	2.24	1.11	-0.01	-1.14	-2.26	-3.39	-4.51
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	TB-450-B1	N	-29.462	-29.462	-29.462	-29.462	-29.462	-29.462	-29.462	-29.462	-29.462
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	1.850	1.850	1.850	1.850	1.850	1.850	1.850	1.850	1.850
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.69	4.26	2.84	1.41	-0.02	-1.44	-2.87	-4.30	-5.72
		Mz	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00
	TB-450-B2	N	-69.234	-69.234	-69.234	-69.234	-69.234	-69.234	-69.234	-69.234	-69.234
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	4.346	4.346	4.346	4.346	4.346	4.346	4.346	4.346	4.346

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.37	10.01	6.66	3.31	-0.04	-3.39	-6.74	-10.09	-13.44
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	TB-450-C1	N	-112.782	-112.782	-112.782	-112.782	-112.782	-112.782	-112.782	-112.782	-112.782
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	7.059	7.059	7.059	7.059	7.059	7.059	7.059	7.059	7.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.74	16.30	10.85	5.41	-0.03	-5.48	-10.92	-16.36	-21.80
		Mz	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	TB-450-C2	N	-47.903	-47.903	-47.903	-47.903	-47.903	-47.903	-47.903	-47.903	-47.903
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	2.998	2.998	2.998	2.998	2.998	2.998	2.998	2.998	2.998
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.23	6.92	4.61	2.30	-0.02	-2.33	-4.64	-6.95	-9.26
		Mz	0.23	0.21	0.18	0.15	0.13	0.10	0.08	0.05	0.02
	TB-450-D1	N	-37.052	-37.052	-37.052	-37.052	-37.052	-37.052	-37.052	-37.052	-37.052
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	2.723	2.723	2.723	2.723	2.723	2.723	2.723	2.723	2.723
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.71	6.61	4.51	2.41	0.31	-1.79	-3.89	-5.99	-8.09
		Mz	0.20	0.17	0.15	0.13	0.10	0.08	0.05	0.03	0.00
	TB-450-D2	N	-86.982	-86.982	-86.982	-86.982	-86.982	-86.982	-86.982	-86.982	-86.982
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	6.400	6.400	6.400	6.400	6.400	6.400	6.400	6.400	6.400
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.48	15.55	10.61	5.68	0.74	-4.19	-9.13	-14.06	-19.00
		Mz	0.02	0.02	0.02	0.01	0.01	0.00	0.00	-0.01	-0.01
	TB-450-E1	N	5.585	5.585	5.585	5.585	5.585	5.585	5.585	5.585	5.585
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.10	0.10
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-E2	N	16.439	16.439	16.439	16.439	16.439	16.439	16.439	16.439	16.439
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.30	-0.15	-0.01	0.14	0.28	0.43	0.58	0.72	0.87
		Mz	-0.15	-0.13	-0.12	-0.10	-0.08	-0.06	-0.04	-0.02	0.00

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N203/N185	Peso próprio	N	133.181	133.924	134.667	135.410	136.153	136.896	137.639	138.382	139.125
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-10.021	-9.911	-9.801	-9.691	-9.581	-9.471	-9.361	-9.251	-9.141
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-29.00	-21.58	-14.24	-6.98	0.19	7.29	14.30	21.23	28.08
		Mz	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
	Guarda Corpo	N	42.606	42.606	42.606	42.606	42.606	42.606	42.606	42.606	42.606
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-2.758	-2.758	-2.758	-2.758	-2.758	-2.758	-2.758	-2.758	-2.758
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.23	-6.18	-4.13	-2.07	-0.02	2.04	4.09	6.14	8.20
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Laje	N	316.330	316.330	316.330	316.330	316.330	316.330	316.330	316.330	316.330
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	-20.476	-20.476	-20.476	-20.476	-20.476	-20.476	-20.476	-20.476	-20.476
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-61.14	-45.89	-30.64	-15.39	-0.14	15.11	30.36	45.61	60.86
		Mz	-0.15	-0.13	-0.12	-0.10	-0.08	-0.06	-0.04	-0.03	-0.01
	Pavimentação	N	173.584	173.584	173.584	173.584	173.584	173.584	173.584	173.584	173.584
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-11.243	-11.243	-11.243	-11.243	-11.243	-11.243	-11.243	-11.243	-11.243
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-33.57	-25.20	-16.83	-8.45	-0.08	8.29	16.67	25.04	33.41
		Mz	-0.09	-0.08	-0.07	-0.06	-0.04	-0.03	-0.02	-0.01	0.00
	Recapeamento	N	78.492	78.492	78.492	78.492	78.492	78.492	78.492	78.492	78.492
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-5.081	-5.081	-5.081	-5.081	-5.081	-5.081	-5.081	-5.081	-5.081
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.17	-11.39	-7.60	-3.82	-0.03	3.75	7.53	11.32	15.10
		Mz	-0.04	-0.03	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Vento 0	N	-20.289	-20.289	-20.289	-20.289	-20.289	-20.289	-20.289	-20.289	-20.289
		Vy	0.652	0.652	0.652	0.652	0.652	0.652	0.652	0.652	0.652
		Vz	1.413	1.413	1.413	1.413	1.413	1.413	1.413	1.413	1.413
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.26	3.21	2.15	1.10	0.05	-1.00	-2.06	-3.11	-4.16
		Mz	3.90	3.41	2.92	2.44	1.95	1.47	0.98	0.49	0.01
	Vento 180	N	20.285	20.258	20.231	20.204	20.177	20.149	20.122	20.095	20.068
		Vy	-3.178	-2.534	-1.890	-1.246	-0.602	0.042	0.686	1.330	1.974
		Vz	-2.146	-1.963	-1.779	-1.595	-1.412	-1.228	-1.044	-0.861	-0.677
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		My	-4.95	-3.42	-2.03	-0.77	0.35	1.33	2.18	2.89	3.46
		Mz	-3.10	-0.98	0.67	1.84	2.53	2.74	2.47	1.72	0.49
	Multidão (Passeio)	N	55.294	55.294	55.294	55.294	55.294	55.294	55.294	55.294	55.294
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-3.580	-3.580	-3.580	-3.580	-3.580	-3.580	-3.580	-3.580	-3.580
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.69	-8.02	-5.36	-2.69	-0.02	2.64	5.31	7.97	10.64
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	180.399	180.399	180.399	180.399	180.399	180.399	180.399	180.399	180.399
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-11.678	-11.678	-11.678	-11.678	-11.678	-11.678	-11.678	-11.678	-11.678
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-34.87	-26.17	-17.47	-8.78	-0.08	8.62	17.31	26.01	34.71
		Mz	-0.12	-0.10	-0.09	-0.07	-0.06	-0.05	-0.03	-0.02	0.00
	TB-450-A1	N	8.340	8.340	8.340	8.340	8.340	8.340	8.340	8.340	8.340
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.599	-0.599	-0.599	-0.599	-0.599	-0.599	-0.599	-0.599	-0.599
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.82	-1.37	-0.93	-0.48	-0.03	0.41	0.86	1.30	1.75
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-A2	N	20.231	20.231	20.231	20.231	20.231	20.231	20.231	20.231	20.231
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-1.454	-1.454	-1.454	-1.454	-1.454	-1.454	-1.454	-1.454	-1.454
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.42	-3.33	-2.25	-1.17	-0.08	1.00	2.08	3.16	4.25
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-B1	N	25.695	25.695	25.695	25.695	25.695	25.695	25.695	25.695	25.695
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	-1.846	-1.846	-1.846	-1.846	-1.846	-1.846	-1.846	-1.846	-1.846
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.60	-4.23	-2.86	-1.48	-0.11	1.27	2.64	4.02	5.39
		Mz	-0.07	-0.06	-0.05	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	TB-450-B2	N	60.289	60.289	60.289	60.289	60.289	60.289	60.289	60.289	60.289
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-4.335	-4.335	-4.335	-4.335	-4.335	-4.335	-4.335	-4.335	-4.335
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.16	-9.93	-6.71	-3.48	-0.25	2.98	6.21	9.43	12.66
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-C1	N	99.133	99.133	99.133	99.133	99.133	99.133	99.133	99.133	99.133

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-7.113	-7.113	-7.113	-7.113	-7.113	-7.113	-7.113	-7.113	-7.113
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-21.58	-16.28	-10.98	-5.68	-0.39	4.91	10.21	15.50	20.80
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	42.123	42.123	42.123	42.123	42.123	42.123	42.123	42.123	42.123
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-3.021	-3.021	-3.021	-3.021	-3.021	-3.021	-3.021	-3.021	-3.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.16	-6.91	-4.66	-2.41	-0.16	2.09	4.34	6.59	8.83
		Mz	-0.21	-0.18	-0.16	-0.13	-0.10	-0.08	-0.05	-0.02	0.01
	TB-450-D1	N	54.558	54.558	54.558	54.558	54.558	54.558	54.558	54.558	54.558
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-3.446	-3.446	-3.446	-3.446	-3.446	-3.446	-3.446	-3.446	-3.446
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.28	-7.72	-5.15	-2.58	-0.02	2.55	5.12	7.68	10.25
		Mz	-0.18	-0.16	-0.13	-0.11	-0.09	-0.06	-0.04	-0.02	0.01
	TB-450-D2	N	128.404	128.404	128.404	128.404	128.404	128.404	128.404	128.404	128.404
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-8.107	-8.107	-8.107	-8.107	-8.107	-8.107	-8.107	-8.107	-8.107
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.19	-18.15	-12.12	-6.08	-0.04	6.00	12.03	18.07	24.11
		Mz	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-E1	N	14.283	14.283	14.283	14.283	14.283	14.283	14.283	14.283	14.283
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.508	-0.508	-0.508	-0.508	-0.508	-0.508	-0.508	-0.508	-0.508
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.30	-0.92	-0.55	-0.17	0.21	0.59	0.97	1.35	1.72
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	TB-450-E2	N	33.343	33.343	33.343	33.343	33.343	33.343	33.343	33.343	33.343
		Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vz	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.64	-1.83	-1.01	-0.20	0.61	1.42	2.24	3.05	3.86
		Mz	0.12	0.10	0.09	0.07	0.05	0.04	0.02	0.00	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N204/N186	Peso próprio	N	-136.643	-135.873	-135.104	-134.334	-133.564	-132.794	-132.024	-131.255	-130.485
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	7.234	7.344	7.454	7.564	7.674	7.784	7.894	8.004	8.114
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.61	16.99	11.28	5.49	-0.38	-6.34	-12.39	-18.52	-24.73
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04
	Guarda Corpo	N	-35.888	-35.888	-35.888	-35.888	-35.888	-35.888	-35.888	-35.888	-35.888
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	2.210	2.210	2.210	2.210	2.210	2.210	2.210	2.210	2.210
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.64	4.94	3.23	1.53	-0.17	-1.88	-3.58	-5.29	-6.99
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-266.436	-266.436	-266.436	-266.436	-266.436	-266.436	-266.436	-266.436	-266.436
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	16.409	16.409	16.409	16.409	16.409	16.409	16.409	16.409	16.409
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.31	36.66	24.01	11.36	-1.29	-13.95	-26.60	-39.25	-51.90
		Mz	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00	0.01
	Pavimentação	N	-146.272	-146.272	-146.272	-146.272	-146.272	-146.272	-146.272	-146.272	-146.272
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	9.004	9.004	9.004	9.004	9.004	9.004	9.004	9.004	9.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.06	20.11	13.17	6.23	-0.71	-7.65	-14.60	-21.54	-28.48
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01
	Recapeamento	N	-66.114	-66.114	-66.114	-66.114	-66.114	-66.114	-66.114	-66.114	-66.114
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	4.072	4.072	4.072	4.072	4.072	4.072	4.072	4.072	4.072
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.24	9.10	5.96	2.82	-0.32	-3.46	-6.60	-9.74	-12.88
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	18.152	18.152	18.152	18.152	18.152	18.152	18.152	18.152	18.152
		Vy	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197
		Vz	-1.030	-1.030	-1.030	-1.030	-1.030	-1.030	-1.030	-1.030	-1.030
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-3.07	-2.27	-1.48	-0.68	0.11	0.91	1.70	2.50	3.29
		Mz	0.64	0.49	0.34	0.18	0.03	-0.12	-0.27	-0.42	-0.58
	Vento 180	N	-18.387	-18.360	-18.333	-18.306	-18.279	-18.251	-18.224	-18.197	-18.170
		Vy	2.534	1.867	1.201	0.534	-0.133	-0.800	-1.467	-2.133	-2.800
		Vz	1.789	1.598	1.408	1.218	1.028	0.837	0.647	0.457	0.267
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	3.80	2.50	1.34	0.33	-0.54	-1.26	-1.83	-2.26	-2.53

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mz	-0.24	-1.94	-3.12	-3.79	-3.94	-3.58	-2.71	-1.32	0.58
	Multidão (Passeio)	N	-46.577	-46.577	-46.577	-46.577	-46.577	-46.577	-46.577	-46.577	-46.577
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	2.868	2.868	2.868	2.868	2.868	2.868	2.868	2.868	2.868
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.62	6.41	4.20	1.99	-0.23	-2.44	-4.65	-6.86	-9.07
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-151.945	-151.945	-151.945	-151.945	-151.945	-151.945	-151.945	-151.945	-151.945
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	9.358	9.358	9.358	9.358	9.358	9.358	9.358	9.358	9.358
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	28.12	20.91	13.69	6.48	-0.74	-7.95	-15.17	-22.38	-29.60
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01
	TB-450-A1	N	-7.584	-7.584	-7.584	-7.584	-7.584	-7.584	-7.584	-7.584	-7.584
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.26	0.93	0.61	0.28	-0.05	-0.38	-0.70	-1.03	-1.36
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-A2	N	-18.401	-18.401	-18.401	-18.401	-18.401	-18.401	-18.401	-18.401	-18.401
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.06	2.26	1.47	0.67	-0.12	-0.91	-1.71	-2.50	-3.30
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-23.367	-23.367	-23.367	-23.367	-23.367	-23.367	-23.367	-23.367	-23.367
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	1.308	1.308	1.308	1.308	1.308	1.308	1.308	1.308	1.308
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.88	2.87	1.87	0.86	-0.15	-1.16	-2.17	-3.18	-4.19
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01
	TB-450-B2	N	-54.852	-54.852	-54.852	-54.852	-54.852	-54.852	-54.852	-54.852	-54.852
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	3.071	3.071	3.071	3.071	3.071	3.071	3.071	3.071	3.071
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.11	6.75	4.38	2.01	-0.36	-2.72	-5.09	-7.46	-9.83
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-90.425	-90.425	-90.425	-90.425	-90.425	-90.425	-90.425	-90.425	-90.425
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	5.063	5.063	5.063	5.063	5.063	5.063	5.063	5.063	5.063
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.03	11.13	7.22	3.32	-0.58	-4.49	-8.39	-12.30	-16.20

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mz	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	TB-450-C2	N	-38.398	-38.398	-38.398	-38.398	-38.398	-38.398	-38.398	-38.398	-38.398
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	2.151	2.151	2.151	2.151	2.151	2.151	2.151	2.151	2.151
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.39	4.73	3.07	1.41	-0.25	-1.91	-3.57	-5.22	-6.88
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02	0.02
	TB-450-D1	N	-48.907	-48.907	-48.907	-48.907	-48.907	-48.907	-48.907	-48.907	-48.907
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	2.758	2.758	2.758	2.758	2.758	2.758	2.758	2.758	2.758
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.28	6.15	4.03	1.90	-0.22	-2.35	-4.48	-6.60	-8.73
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
	TB-450-D2	N	-115.126	-115.126	-115.126	-115.126	-115.126	-115.126	-115.126	-115.126	-115.126
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	6.491	6.491	6.491	6.491	6.491	6.491	6.491	6.491	6.491
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.49	14.49	9.48	4.48	-0.53	-5.53	-10.54	-15.54	-20.55
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
	TB-450-E1	N	-5.963	-5.963	-5.963	-5.963	-5.963	-5.963	-5.963	-5.963	-5.963
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.58	1.95	1.32	0.69	0.06	-0.57	-1.20	-1.83	-2.46
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-8.747	-8.747	-8.747	-8.747	-8.747	-8.747	-8.747	-8.747	-8.747
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	2.055	2.055	2.055	2.055	2.055	2.055	2.055	2.055	2.055
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.53	4.95	3.36	1.78	0.19	-1.39	-2.98	-4.56	-6.15
		Mz	-0.04	-0.04	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N205/N187	Peso próprio	N	188.268	190.538	192.809	195.080	197.351	199.622	201.893	204.164	206.435
		Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vz	-18.460	-18.124	-17.788	-17.452	-17.116	-16.780	-16.444	-16.108	-15.771
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-63.19	-49.57	-36.19	-23.07	-10.20	2.42	14.79	26.91	38.78

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Mz	0.00	-0.02	-0.03	-0.05	-0.07	-0.08	-0.10	-0.11	-0.13
	Guarda Corpo	N	60.120	60.120	60.120	60.120	60.120	60.120	60.120	60.120	60.120
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-4.970	-4.970	-4.970	-4.970	-4.970	-4.970	-4.970	-4.970	-4.970
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.92	-14.21	-10.51	-6.81	-3.11	0.59	4.29	7.99	11.70
		Mz	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04
	Laje	N	446.410	446.410	446.410	446.410	446.410	446.410	446.410	446.410	446.410
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	-36.902	-36.902	-36.902	-36.902	-36.902	-36.902	-36.902	-36.902	-36.902
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-133.02	-105.54	-78.05	-50.57	-23.09	4.39	31.87	59.35	86.83
		Mz	-0.06	-0.09	-0.12	-0.14	-0.17	-0.20	-0.22	-0.25	-0.28
	Pavimentação	N	244.683	244.683	244.683	244.683	244.683	244.683	244.683	244.683	244.683
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	-20.244	-20.244	-20.244	-20.244	-20.244	-20.244	-20.244	-20.244	-20.244
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-72.96	-57.89	-42.81	-27.73	-12.66	2.42	17.49	32.57	47.65
		Mz	-0.03	-0.05	-0.06	-0.08	-0.09	-0.11	-0.12	-0.14	-0.15
	Recapeamento	N	110.760	110.760	110.760	110.760	110.760	110.760	110.760	110.760	110.760
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-9.156	-9.156	-9.156	-9.156	-9.156	-9.156	-9.156	-9.156	-9.156
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-33.01	-26.19	-19.37	-12.55	-5.73	1.09	7.91	14.73	21.55
		Mz	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06	-0.06	-0.07
	Vento 0	N	-21.977	-21.977	-21.977	-21.977	-21.977	-21.977	-21.977	-21.977	-21.977
		Vy	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287
		Vz	2.139	2.139	2.139	2.139	2.139	2.139	2.139	2.139	2.139
		Mt	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
		My	7.73	6.13	4.54	2.95	1.35	-0.24	-1.83	-3.43	-5.02
		Mz	0.96	1.17	1.38	1.60	1.81	2.02	2.24	2.45	2.67
	Vento 180	N	22.713	22.686	22.659	22.632	22.604	22.577	22.550	22.523	22.496
		Vy	-2.114	-1.470	-0.826	-0.182	0.462	1.106	1.750	2.394	3.038
		Vz	-2.939	-2.755	-2.572	-2.388	-2.205	-2.021	-1.837	-1.654	-1.470
		Mt	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39
		My	-8.40	-6.28	-4.29	-2.45	-0.74	0.84	2.28	3.57	4.74
		Mz	1.06	2.39	3.25	3.62	3.52	2.93	1.87	0.33	-1.70
	Multidão (Passeio)	N	78.022	78.022	78.022	78.022	78.022	78.022	78.022	78.022	78.022
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006

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Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vz	-6.450	-6.450	-6.450	-6.450	-6.450	-6.450	-6.450	-6.450	-6.450
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.25	-18.45	-13.64	-8.84	-4.04	0.77	5.57	10.38	15.18
		Mz	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05
	Multidão - TB450	N	254.564	254.564	254.564	254.564	254.564	254.564	254.564	254.564	254.564
		Vy	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Vz	-21.044	-21.044	-21.044	-21.044	-21.044	-21.044	-21.044	-21.044	-21.044
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-75.86	-60.18	-44.51	-28.84	-13.17	2.50	18.18	33.85	49.52
		Mz	-0.04	-0.05	-0.07	-0.08	-0.10	-0.11	-0.13	-0.14	-0.16
	TB-450-A1	N	9.296	9.296	9.296	9.296	9.296	9.296	9.296	9.296	9.296
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.924	-0.924	-0.924	-0.924	-0.924	-0.924	-0.924	-0.924	-0.924
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.24	-2.56	-1.87	-1.18	-0.49	0.19	0.88	1.57	2.26
		Mz	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03
	TB-450-A2	N	22.558	22.558	22.558	22.558	22.558	22.558	22.558	22.558	22.558
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-2.240	-2.240	-2.240	-2.240	-2.240	-2.240	-2.240	-2.240	-2.240
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.87	-6.20	-4.54	-2.87	-1.20	0.47	2.14	3.81	5.48
		Mz	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-B1	N	28.647	28.647	28.647	28.647	28.647	28.647	28.647	28.647	28.647
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-2.845	-2.845	-2.845	-2.845	-2.845	-2.845	-2.845	-2.845	-2.845
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-10.00	-7.88	-5.76	-3.64	-1.52	0.59	2.71	4.83	6.95
		Mz	-0.03	-0.03	-0.04	-0.05	-0.05	-0.06	-0.07	-0.07	-0.08
	TB-450-B2	N	67.257	67.257	67.257	67.257	67.257	67.257	67.257	67.257	67.257
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-6.679	-6.679	-6.679	-6.679	-6.679	-6.679	-6.679	-6.679	-6.679
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-23.47	-18.49	-13.52	-8.54	-3.57	1.40	6.38	11.35	16.33
		Mz	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05
	TB-450-C1	N	111.235	111.235	111.235	111.235	111.235	111.235	111.235	111.235	111.235
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-11.026	-11.026	-11.026	-11.026	-11.026	-11.026	-11.026	-11.026	-11.026
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-38.74	-30.53	-22.32	-14.11	-5.90	2.31	10.52	18.74	26.95

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Mz	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06
	TB-450-C2	N	47.229	47.229	47.229	47.229	47.229	47.229	47.229	47.229	47.229
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-4.681	-4.681	-4.681	-4.681	-4.681	-4.681	-4.681	-4.681	-4.681
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-16.45	-12.97	-9.48	-6.00	-2.51	0.98	4.46	7.95	11.43
		Mz	-0.03	-0.04	-0.04	-0.05	-0.06	-0.06	-0.07	-0.08	-0.08
	TB-450-D1	N	64.862	64.862	64.862	64.862	64.862	64.862	64.862	64.862	64.862
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-6.230	-6.230	-6.230	-6.230	-6.230	-6.230	-6.230	-6.230	-6.230
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-22.00	-17.36	-12.72	-8.08	-3.44	1.20	5.84	10.47	15.11
		Mz	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06
	TB-450-D2	N	152.754	152.754	152.754	152.754	152.754	152.754	152.754	152.754	152.754
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-14.672	-14.672	-14.672	-14.672	-14.672	-14.672	-14.672	-14.672	-14.672
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-51.81	-40.88	-29.95	-19.03	-8.10	2.83	13.75	24.68	35.60
		Mz	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04
	TB-450-E1	N	44.534	44.534	44.534	44.534	44.534	44.534	44.534	44.534	44.534
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-2.091	-2.091	-2.091	-2.091	-2.091	-2.091	-2.091	-2.091	-2.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.33	-6.77	-5.21	-3.65	-2.10	-0.54	1.02	2.58	4.13
		Mz	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08
	TB-450-E2	N	128.169	128.169	128.169	128.169	128.169	128.169	128.169	128.169	128.169
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-5.217	-5.217	-5.217	-5.217	-5.217	-5.217	-5.217	-5.217	-5.217
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-21.70	-17.81	-13.92	-10.04	-6.15	-2.27	1.62	5.50	9.39
		Mz	-0.04	-0.04	-0.05	-0.06	-0.07	-0.08	-0.09	-0.10	-0.11

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
N6/N57	Peso próprio	N	-300.122	-297.746	-295.370	-292.993	-290.617	-288.241	-285.865	-283.488	-281.112
		Vy	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164
		Vz	11.028	11.556	12.083	12.610	13.138	13.665	14.192	14.720	15.247
		Mt	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
		My	54.22	45.30	35.97	26.22	16.05	5.47	-5.53	-16.94	-28.77
		Mz	-0.65	-0.52	-0.39	-0.26	-0.13	-0.01	0.12	0.25	0.38
	Guarda Corpo	N	-76.737	-76.737	-76.737	-76.737	-76.737	-76.737	-76.737	-76.737	-76.737
		Vy	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060
		Vz	3.432	3.432	3.432	3.432	3.432	3.432	3.432	3.432	3.432
		Mt	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		My	14.51	11.80	9.09	6.38	3.67	0.96	-1.75	-4.46	-7.17
		Mz	-0.39	-0.34	-0.30	-0.25	-0.20	-0.15	-0.11	-0.06	-0.01
	Laje	N	-569.802	-569.802	-569.802	-569.802	-569.802	-569.802	-569.802	-569.802	-569.802
		Vy	-0.437	-0.437	-0.437	-0.437	-0.437	-0.437	-0.437	-0.437	-0.437
		Vz	25.483	25.483	25.483	25.483	25.483	25.483	25.483	25.483	25.483
		Mt	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
		My	107.77	87.65	67.53	47.41	27.28	7.16	-12.96	-33.08	-53.20
		Mz	-2.86	-2.51	-2.17	-1.82	-1.48	-1.13	-0.79	-0.44	-0.10
	Pavimentação	N	-312.302	-312.302	-312.302	-312.302	-312.302	-312.302	-312.302	-312.302	-312.302
		Vy	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239
		Vz	13.964	13.964	13.964	13.964	13.964	13.964	13.964	13.964	13.964
		Mt	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
		My	59.04	48.01	36.99	25.96	14.93	3.91	-7.12	-18.15	-29.17
		Mz	-1.56	-1.37	-1.18	-1.00	-0.81	-0.62	-0.43	-0.24	-0.05
	Recapeamento	N	-141.375	-141.375	-141.375	-141.375	-141.375	-141.375	-141.375	-141.375	-141.375
		Vy	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108
		Vz	6.323	6.323	6.323	6.323	6.323	6.323	6.323	6.323	6.323
		Mt	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
		My	26.74	21.75	16.75	11.76	6.77	1.78	-3.22	-8.21	-13.20
		Mz	-0.71	-0.62	-0.54	-0.45	-0.37	-0.28	-0.20	-0.11	-0.02
	Vento 0	N	28.373	28.373	28.373	28.373	28.373	28.373	28.373	28.373	28.373
		Vy	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370
		Vz	-1.907	-1.907	-1.907	-1.907	-1.907	-1.907	-1.907	-1.907	-1.907
		Mt	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58
		My	-8.04	-6.54	-5.03	-3.52	-2.02	-0.51	0.99	2.50	4.00
		Mz	-10.45	-8.58	-6.71	-4.84	-2.97	-1.09	0.78	2.65	4.52
	Vento 180	N	-28.266	-28.223	-28.180	-28.138	-28.095	-28.052	-28.010	-27.967	-27.924
		Vy	5.141	4.459	3.776	3.093	2.410	1.727	1.044	0.361	-0.321
		Vz	2.556	2.363	2.171	1.979	1.787	1.595	1.403	1.211	1.018
		Mt	-4.61	-4.61	-4.61	-4.61	-4.61	-4.61	-4.61	-4.61	-4.61
		My	7.97	6.03	4.24	2.60	1.11	-0.22	-1.41	-2.44	-3.32
		Mz	10.20	6.41	3.16	0.45	-1.72	-3.36	-4.45	-5.00	-5.02
	Multidão (Passeio)	N	-99.587	-99.587	-99.587	-99.587	-99.587	-99.587	-99.587	-99.587	-99.587

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
		Vy	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
		Vz	4.453	4.453	4.453	4.453	4.453	4.453	4.453	4.453	4.453
		Mt	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		My	18.83	15.31	11.80	8.28	4.77	1.25	-2.27	-5.78	-9.30
		Mz	-0.51	-0.45	-0.39	-0.33	-0.26	-0.20	-0.14	-0.08	-0.01
	Multidão - TB450	N	-324.928	-324.928	-324.928	-324.928	-324.928	-324.928	-324.928	-324.928	-324.928
		Vy	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246
		Vz	14.533	14.533	14.533	14.533	14.533	14.533	14.533	14.533	14.533
		Mt	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		My	61.46	49.99	38.51	27.03	15.56	4.08	-7.39	-18.87	-30.34
		Mz	-1.61	-1.42	-1.22	-1.03	-0.84	-0.64	-0.45	-0.25	-0.06
	TB-450-A1	N	-11.741	-11.741	-11.741	-11.741	-11.741	-11.741	-11.741	-11.741	-11.741
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	1.99	1.59	1.19	0.79	0.39	0.00	-0.40	-0.80	-1.20
		Mz	0.01	0.01	0.00	0.00	-0.01	-0.01	-0.02	-0.03	-0.03
	TB-450-A2	N	-28.491	-28.491	-28.491	-28.491	-28.491	-28.491	-28.491	-28.491	-28.491
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	1.227	1.227	1.227	1.227	1.227	1.227	1.227	1.227	1.227
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	4.83	3.86	2.90	1.93	0.96	-0.01	-0.98	-1.95	-2.92
		Mz	0.04	0.03	0.02	0.01	0.00	0.00	-0.01	-0.02	-0.03
	TB-450-B1	N	-36.188	-36.188	-36.188	-36.188	-36.188	-36.188	-36.188	-36.188	-36.188
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	1.567	1.567	1.567	1.567	1.567	1.567	1.567	1.567	1.567
		Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
		My	6.18	4.94	3.70	2.47	1.23	-0.01	-1.24	-2.48	-3.72
		Mz	0.17	0.14	0.11	0.07	0.04	0.00	-0.03	-0.06	-0.10
	TB-450-B2	N	-84.930	-84.930	-84.930	-84.930	-84.930	-84.930	-84.930	-84.930	-84.930
		Vy	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039
		Vz	3.638	3.638	3.638	3.638	3.638	3.638	3.638	3.638	3.638
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	14.32	11.45	8.58	5.70	2.83	-0.04	-2.92	-5.79	-8.66
		Mz	-0.17	-0.14	-0.10	-0.07	-0.04	-0.01	0.02	0.05	0.08
	TB-450-C1	N	-140.545	-140.545	-140.545	-140.545	-140.545	-140.545	-140.545	-140.545	-140.545
		Vy	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vz	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020	6.020
		Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
		My	23.72	18.96	14.21	9.45	4.70	-0.05	-4.81	-9.56	-14.32
		Mz	-0.24	-0.19	-0.15	-0.11	-0.07	-0.02	0.02	0.06	0.11
	TB-450-C2	N	-59.691	-59.691	-59.691	-59.691	-59.691	-59.691	-59.691	-59.691	-59.691
		Vy	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
		Vz	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582	2.582
		Mt	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
		My	10.19	8.15	6.11	4.07	2.03	-0.01	-2.04	-4.08	-6.12
		Mz	0.28	0.23	0.18	0.14	0.09	0.04	-0.01	-0.06	-0.11
	TB-450-D1	N	-83.651	-83.651	-83.651	-83.651	-83.651	-83.651	-83.651	-83.651	-83.651
		Vy	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
		Vz	3.559	3.559	3.559	3.559	3.559	3.559	3.559	3.559	3.559
		Mt	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
		My	14.27	11.46	8.65	5.84	3.03	0.22	-2.59	-5.40	-8.21
		Mz	0.23	0.19	0.16	0.12	0.08	0.04	0.01	-0.03	-0.07
	TB-450-D2	N	-196.981	-196.981	-196.981	-196.981	-196.981	-196.981	-196.981	-196.981	-196.981
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	8.330	8.330	8.330	8.330	8.330	8.330	8.330	8.330	8.330
		Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
		My	33.37	26.80	20.22	13.64	7.06	0.48	-6.09	-12.67	-19.25
		Mz	-0.21	-0.17	-0.14	-0.10	-0.06	-0.03	0.01	0.05	0.08
	TB-450-E1	N	-57.036	-57.036	-57.036	-57.036	-57.036	-57.036	-57.036	-57.036	-57.036
		Vy	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091
		Vz	2.538	2.538	2.538	2.538	2.538	2.538	2.538	2.538	2.538
		Mt	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		My	12.10	10.09	8.09	6.09	4.08	2.08	0.07	-1.93	-3.94
		Mz	-0.60	-0.53	-0.46	-0.39	-0.32	-0.24	-0.17	-0.10	-0.03
	TB-450-E2	N	-164.221	-164.221	-164.221	-164.221	-164.221	-164.221	-164.221	-164.221	-164.221
		Vy	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484	-0.484
		Vz	8.261	8.261	8.261	8.261	8.261	8.261	8.261	8.261	8.261
		Mt	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
		My	39.95	33.43	26.91	20.39	13.86	7.34	0.82	-5.71	-12.23
		Mz	-3.08	-2.70	-2.32	-1.93	-1.55	-1.17	-0.79	-0.40	-0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
N216/N231	Peso próprio	N	-21.077	-20.304	-19.531	-18.758	-17.985	-17.212	-16.439	-15.666	-14.893
		Vy	-0.556	-0.556	-0.556	-0.556	-0.556	-0.556	-0.556	-0.556	-0.556
		Vz	1.768	1.877	1.987	2.097	2.206	2.316	2.426	2.536	2.645

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.24	5.83	4.34	2.75	1.09	-0.66	-2.50	-4.42	-6.42
		Mz	-2.20	-1.77	-1.34	-0.91	-0.48	-0.05	0.38	0.81	1.24
	Guarda Corpo	N	-1.442	-1.442	-1.442	-1.442	-1.442	-1.442	-1.442	-1.442	-1.442
		Vy	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103
		Vz	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.07	1.61	1.15	0.69	0.23	-0.23	-0.69	-1.16	-1.62
		Mz	-0.62	-0.54	-0.46	-0.38	-0.30	-0.22	-0.14	-0.06	0.02
	Laje	N	-9.108	-9.108	-9.108	-9.108	-9.108	-9.108	-9.108	-9.108	-9.108
		Vy	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104	-1.104
		Vz	4.368	4.368	4.368	4.368	4.368	4.368	4.368	4.368	4.368
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.23	11.85	8.47	5.08	1.70	-1.68	-5.06	-8.44	-11.82
		Mz	-6.57	-5.71	-4.86	-4.00	-3.15	-2.29	-1.44	-0.58	0.27
	Pavimentação	N	-5.006	-5.006	-5.006	-5.006	-5.006	-5.006	-5.006	-5.006	-5.006
		Vy	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627	-0.627
		Vz	2.396	2.396	2.396	2.396	2.396	2.396	2.396	2.396	2.396
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.36	6.50	4.64	2.79	0.93	-0.92	-2.78	-4.63	-6.49
		Mz	-3.72	-3.24	-2.75	-2.27	-1.78	-1.30	-0.81	-0.33	0.16
	Recapeamento	N	-2.239	-2.239	-2.239	-2.239	-2.239	-2.239	-2.239	-2.239	-2.239
		Vy	-0.280	-0.280	-0.280	-0.280	-0.280	-0.280	-0.280	-0.280	-0.280
		Vz	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.78	2.94	2.10	1.26	0.42	-0.42	-1.25	-2.09	-2.93
		Mz	-1.67	-1.45	-1.23	-1.02	-0.80	-0.58	-0.36	-0.15	0.07
	Vento 0	N	2.962	2.935	2.908	2.880	2.853	2.826	2.799	2.772	2.745
		Vy	-12.258	-11.588	-10.919	-10.249	-9.580	-8.910	-8.241	-7.571	-6.902
		Vz	-0.635	-0.444	-0.253	-0.061	0.130	0.321	0.512	0.703	0.894
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	0.14	0.55	0.82	0.94	0.92	0.74	0.42	-0.05	-0.67
		Mz	-37.99	-28.76	-20.04	-11.85	-4.17	2.99	9.62	15.75	21.35
	Vento 180	N	-2.656	-2.656	-2.656	-2.656	-2.656	-2.656	-2.656	-2.656	-2.656
		Vy	9.472	9.472	9.472	9.472	9.472	9.472	9.472	9.472	9.472
		Vz	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-0.88	-0.78	-0.69	-0.59	-0.49	-0.39	-0.29	-0.19	-0.09
		Mz	37.18	29.85	22.51	15.18	7.84	0.51	-6.82	-14.16	-21.49

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
	Multidão (Passeio)	N	-2.202	-2.202	-2.202	-2.202	-2.202	-2.202	-2.202	-2.202	-2.202
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.73	2.12	1.51	0.90	0.30	-0.31	-0.92	-1.53	-2.14
		Mz	-0.38	-0.33	-0.29	-0.24	-0.19	-0.14	-0.10	-0.05	0.00
	Multidão - TB450	N	-4.346	-4.346	-4.346	-4.346	-4.346	-4.346	-4.346	-4.346	-4.346
		Vy	-0.820	-0.820	-0.820	-0.820	-0.820	-0.820	-0.820	-0.820	-0.820
		Vz	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.60	6.69	4.79	2.88	0.98	-0.93	-2.84	-4.74	-6.65
		Mz	-4.85	-4.21	-3.58	-2.95	-2.31	-1.68	-1.04	-0.41	0.23
	TB-450-A1	N	-21.650	-21.650	-21.650	-21.650	-21.650	-21.650	-21.650	-21.650	-21.650
		Vy	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119
		Vz	1.555	1.555	1.555	1.555	1.555	1.555	1.555	1.555	1.555
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.87	3.66	2.46	1.25	0.05	-1.15	-2.36	-3.56	-4.77
		Mz	-0.48	-0.39	-0.30	-0.21	-0.12	-0.02	0.07	0.16	0.25
	TB-450-A2	N	-9.273	-9.273	-9.273	-9.273	-9.273	-9.273	-9.273	-9.273	-9.273
		Vy	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108
		Vz	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.09	1.57	1.06	0.54	0.02	-0.49	-1.01	-1.53	-2.04
		Mz	-0.44	-0.36	-0.27	-0.19	-0.10	-0.02	0.06	0.15	0.23
	TB-450-B1	N	-61.300	-61.300	-61.300	-61.300	-61.300	-61.300	-61.300	-61.300	-61.300
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	4.389	4.389	4.389	4.389	4.389	4.389	4.389	4.389	4.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.75	10.35	6.96	3.56	0.16	-3.24	-6.64	-10.03	-13.43
		Mz	-0.12	-0.11	-0.09	-0.07	-0.05	-0.04	-0.02	0.00	0.01
	TB-450-B2	N	-26.024	-26.024	-26.024	-26.024	-26.024	-26.024	-26.024	-26.024	-26.024
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	1.864	1.864	1.864	1.864	1.864	1.864	1.864	1.864	1.864
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.84	4.40	2.95	1.51	0.07	-1.38	-2.82	-4.26	-5.71
		Mz	0.05	0.04	0.02	0.01	-0.01	-0.03	-0.04	-0.06	-0.07
	TB-450-C1	N	-8.915	-8.915	-8.915	-8.915	-8.915	-8.915	-8.915	-8.915	-8.915
		Vy	-1.075	-1.075	-1.075	-1.075	-1.075	-1.075	-1.075	-1.075	-1.075
		Vz	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.81	3.72	2.63	1.55	0.46	-0.63	-1.72	-2.81	-3.90
		Mz	-6.11	-5.28	-4.44	-3.61	-2.78	-1.95	-1.11	-0.28	0.55
	TB-450-C2	N	-25.999	-25.999	-25.999	-25.999	-25.999	-25.999	-25.999	-25.999	-25.999
		Vy	-1.020	-1.020	-1.020	-1.020	-1.020	-1.020	-1.020	-1.020	-1.020
		Vz	3.492	3.492	3.492	3.492	3.492	3.492	3.492	3.492	3.492
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.85	9.15	6.45	3.74	1.04	-1.66	-4.37	-7.07	-9.78
		Mz	-6.10	-5.31	-4.52	-3.73	-2.95	-2.16	-1.37	-0.58	0.21
	TB-450-D1	N	70.725	70.725	70.725	70.725	70.725	70.725	70.725	70.725	70.725
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	-3.086	-3.086	-3.086	-3.086	-3.086	-3.086	-3.086	-3.086	-3.086
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.02	-6.63	-4.24	-1.85	0.54	2.93	5.32	7.71	10.09
		Mz	0.10	0.08	0.06	0.04	0.02	0.00	-0.02	-0.04	-0.07
	TB-450-D2	N	29.859	29.859	29.859	29.859	29.859	29.859	29.859	29.859	29.859
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.80	-2.79	-1.78	-0.78	0.23	1.23	2.24	3.24	4.25
		Mz	-0.08	-0.07	-0.06	-0.05	-0.05	-0.04	-0.03	-0.02	-0.02
	TB-450-E1	N	24.341	24.341	24.341	24.341	24.341	24.341	24.341	24.341	24.341
		Vy	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
		Vz	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.31	-3.22	-2.13	-1.04	0.05	1.14	2.23	3.32	4.41
		Mz	0.22	0.17	0.13	0.08	0.04	0.00	-0.05	-0.09	-0.14
	TB-450-E2	N	11.847	11.847	11.847	11.847	11.847	11.847	11.847	11.847	11.847
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	-0.684	-0.684	-0.684	-0.684	-0.684	-0.684	-0.684	-0.684	-0.684
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.10	-1.57	-1.04	-0.51	0.02	0.55	1.08	1.61	2.14
		Mz	0.43	0.35	0.26	0.17	0.08	0.00	-0.09	-0.18	-0.27

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N217/N230	Peso próprio	N	65.507	66.250	66.993	67.736	68.479	69.222	69.965	70.708	71.451
		Vy	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vz	-4.792	-4.682	-4.572	-4.462	-4.352	-4.242	-4.132	-4.022	-3.912
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.80	-9.27	-5.83	-2.46	0.82	4.02	7.14	10.17	13.13
		Mz	2.00	1.74	1.48	1.23	0.97	0.71	0.45	0.20	-0.06
	Guarda Corpo	N	22.158	22.158	22.158	22.158	22.158	22.158	22.158	22.158	22.158
		Vy	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Vz	-1.194	-1.194	-1.194	-1.194	-1.194	-1.194	-1.194	-1.194	-1.194
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.39	-2.50	-1.61	-0.72	0.17	1.06	1.95	2.84	3.72
		Mz	0.63	0.55	0.47	0.39	0.31	0.23	0.15	0.07	-0.01
	Laje	N	164.479	164.479	164.479	164.479	164.479	164.479	164.479	164.479	164.479
		Vy	1.141	1.141	1.141	1.141	1.141	1.141	1.141	1.141	1.141
		Vz	-8.831	-8.831	-8.831	-8.831	-8.831	-8.831	-8.831	-8.831	-8.831
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-25.07	-18.49	-11.92	-5.34	1.24	7.82	14.39	20.97	27.55
		Mz	6.70	5.85	5.00	4.15	3.30	2.45	1.60	0.75	-0.10
	Pavimentação	N	90.225	90.225	90.225	90.225	90.225	90.225	90.225	90.225	90.225
		Vy	0.647	0.647	0.647	0.647	0.647	0.647	0.647	0.647	0.647
		Vz	-4.845	-4.845	-4.845	-4.845	-4.845	-4.845	-4.845	-4.845	-4.845
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.75	-10.15	-6.54	-2.93	0.68	4.29	7.89	11.50	15.11
		Mz	3.80	3.32	2.84	2.35	1.87	1.39	0.91	0.43	-0.06
	Recapeamento	N	40.830	40.830	40.830	40.830	40.830	40.830	40.830	40.830	40.830
		Vy	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290
		Vz	-2.192	-2.192	-2.192	-2.192	-2.192	-2.192	-2.192	-2.192	-2.192
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.22	-4.59	-2.96	-1.32	0.31	1.94	3.57	5.20	6.84
		Mz	1.70	1.49	1.27	1.05	0.84	0.62	0.41	0.19	-0.02
	Vento 0	N	15.574	15.601	15.628	15.655	15.682	15.709	15.737	15.764	15.791
		Vy	8.926	8.282	7.638	6.994	6.350	5.706	5.062	4.418	3.774
		Vz	-0.203	-0.387	-0.571	-0.754	-0.938	-1.122	-1.305	-1.489	-1.672
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-2.04	-1.82	-1.47	-0.97	-0.34	0.42	1.33	2.37	3.54
		Mz	35.79	29.39	23.46	18.01	13.04	8.55	4.54	1.01	-2.04
	Vento 180	N	-15.535	-15.535	-15.535	-15.535	-15.535	-15.535	-15.535	-15.535	-15.535
		Vy	-6.151	-6.151	-6.151	-6.151	-6.151	-6.151	-6.151	-6.151	-6.151
		Vz	0.935	0.935	0.935	0.935	0.935	0.935	0.935	0.935	0.935
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	2.73	2.03	1.33	0.64	-0.06	-0.76	-1.45	-2.15	-2.85

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Mz	-35.09	-30.51	-25.93	-21.35	-16.77	-12.19	-7.60	-3.02	1.56
	Multidão (Passeio)	N	28.750	28.750	28.750	28.750	28.750	28.750	28.750	28.750	28.750
		Vy	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
		Vz	-1.557	-1.557	-1.557	-1.557	-1.557	-1.557	-1.557	-1.557	-1.557
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.42	-3.26	-2.10	-0.94	0.22	1.38	2.54	3.69	4.85
		Mz	0.39	0.34	0.29	0.24	0.19	0.14	0.09	0.04	0.00
	Multidão - TB450	N	93.856	93.856	93.856	93.856	93.856	93.856	93.856	93.856	93.856
		Vy	0.843	0.843	0.843	0.843	0.843	0.843	0.843	0.843	0.843
		Vz	-5.021	-5.021	-5.021	-5.021	-5.021	-5.021	-5.021	-5.021	-5.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.25	-10.51	-6.77	-3.03	0.71	4.45	8.19	11.92	15.66
		Mz	4.95	4.32	3.69	3.07	2.44	1.81	1.18	0.55	-0.07
	TB-450-A1	N	24.509	24.509	24.509	24.509	24.509	24.509	24.509	24.509	24.509
		Vy	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Vz	-1.727	-1.727	-1.727	-1.727	-1.727	-1.727	-1.727	-1.727	-1.727
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.16	-3.88	-2.59	-1.30	-0.02	1.27	2.55	3.84	5.13
		Mz	0.45	0.39	0.33	0.27	0.21	0.15	0.10	0.04	-0.02
	TB-450-A2	N	10.536	10.536	10.536	10.536	10.536	10.536	10.536	10.536	10.536
		Vy	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074
		Vz	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.22	-1.67	-1.12	-0.56	-0.01	0.55	1.10	1.65	2.21
		Mz	0.42	0.37	0.31	0.26	0.20	0.15	0.09	0.04	-0.02
	TB-450-B1	N	70.275	70.275	70.275	70.275	70.275	70.275	70.275	70.275	70.275
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-4.936	-4.936	-4.936	-4.936	-4.936	-4.936	-4.936	-4.936	-4.936
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.73	-11.06	-7.38	-3.70	-0.03	3.65	7.32	11.00	14.67
		Mz	0.11	0.10	0.08	0.07	0.05	0.04	0.02	0.01	-0.01
	TB-450-B2	N	29.883	29.883	29.883	29.883	29.883	29.883	29.883	29.883	29.883
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-2.098	-2.098	-2.098	-2.098	-2.098	-2.098	-2.098	-2.098	-2.098
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.26	-4.70	-3.14	-1.57	-0.01	1.55	3.11	4.68	6.24
		Mz	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00	0.00	0.01
	TB-450-C1	N	43.961	43.961	43.961	43.961	43.961	43.961	43.961	43.961	43.961
		Vy	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vz	-2.513	-2.513	-2.513	-2.513	-2.513	-2.513	-2.513	-2.513	-2.513
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.30	-5.43	-3.56	-1.69	0.18	2.05	3.92	5.80	7.67
		Mz	6.22	5.43	4.64	3.85	3.06	2.27	1.48	0.69	-0.10
	TB-450-C2	N	103.302	103.302	103.302	103.302	103.302	103.302	103.302	103.302	103.302
		Vy	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064
		Vz	-6.005	-6.005	-6.005	-6.005	-6.005	-6.005	-6.005	-6.005	-6.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.46	-12.99	-8.52	-4.05	0.43	4.90	9.37	13.84	18.31
		Mz	6.25	5.46	4.66	3.87	3.08	2.29	1.49	0.70	-0.09
	TB-450-D1	N	1.689	1.689	1.689	1.689	1.689	1.689	1.689	1.689	1.689
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	1.388	1.388	1.388	1.388	1.388	1.388	1.388	1.388	1.388
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.05	4.02	2.99	1.95	0.92	-0.11	-1.15	-2.18	-3.21
		Mz	-0.08	-0.07	-0.05	-0.04	-0.03	-0.02	-0.01	0.00	0.01
	TB-450-D2	N	0.930	0.930	0.930	0.930	0.930	0.930	0.930	0.930	0.930
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	0.575	0.575	0.575	0.575	0.575	0.575	0.575	0.575	0.575
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.10	1.68	1.25	0.82	0.39	-0.04	-0.47	-0.89	-1.32
		Mz	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
	TB-450-E1	N	-19.269	-19.269	-19.269	-19.269	-19.269	-19.269	-19.269	-19.269	-19.269
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	1.506	1.506	1.506	1.506	1.506	1.506	1.506	1.506	1.506
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.52	3.40	2.28	1.16	0.04	-1.09	-2.21	-3.33	-4.45
		Mz	-0.20	-0.18	-0.15	-0.12	-0.10	-0.07	-0.05	-0.02	0.01
	TB-450-E2	N	-9.400	-9.400	-9.400	-9.400	-9.400	-9.400	-9.400	-9.400	-9.400
		Vy	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073
		Vz	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.22	1.67	1.12	0.57	0.02	-0.53	-1.08	-1.63	-2.18
		Mz	-0.42	-0.37	-0.31	-0.26	-0.20	-0.15	-0.09	-0.04	0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N218/N229	Peso próprio	N	-91.815	-91.045	-90.276	-89.506	-88.736	-87.966	-87.196	-86.427	-85.657

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	5.239	5.349	5.459	5.569	5.679	5.789	5.899	6.009	6.119
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	17.93	13.84	9.68	5.43	1.09	-3.33	-7.84	-12.43	-17.10
		Mz	-0.12	-0.11	-0.11	-0.11	-0.10	-0.10	-0.09	-0.09	-0.08
	Guarda Corpo	N	-21.584	-21.584	-21.584	-21.584	-21.584	-21.584	-21.584	-21.584	-21.584
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	1.594	1.594	1.594	1.594	1.594	1.594	1.594	1.594	1.594
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.16	3.93	2.70	1.47	0.24	-0.99	-2.22	-3.45	-4.67
		Mz	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.03	-0.03	-0.03
	Laje	N	-160.033	-160.033	-160.033	-160.033	-160.033	-160.033	-160.033	-160.033	-160.033
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	11.821	11.821	11.821	11.821	11.821	11.821	11.821	11.821	11.821
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.27	29.15	20.04	10.92	1.81	-7.31	-16.42	-25.53	-34.65
		Mz	-0.50	-0.48	-0.45	-0.43	-0.41	-0.39	-0.36	-0.34	-0.32
	Pavimentação	N	-87.799	-87.799	-87.799	-87.799	-87.799	-87.799	-87.799	-87.799	-87.799
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	6.480	6.480	6.480	6.480	6.480	6.480	6.480	6.480	6.480
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.98	15.98	10.98	5.99	0.99	-4.01	-9.00	-14.00	-19.00
		Mz	-0.28	-0.27	-0.26	-0.24	-0.23	-0.22	-0.21	-0.19	-0.18
	Recapeamento	N	-39.724	-39.724	-39.724	-39.724	-39.724	-39.724	-39.724	-39.724	-39.724
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	2.934	2.934	2.934	2.934	2.934	2.934	2.934	2.934	2.934
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.50	7.24	4.97	2.71	0.45	-1.81	-4.08	-6.34	-8.60
		Mz	-0.13	-0.12	-0.12	-0.11	-0.10	-0.10	-0.09	-0.09	-0.08
	Vento 0	N	-18.460	-18.487	-18.515	-18.542	-18.569	-18.596	-18.623	-18.650	-18.678
		Vy	-3.221	-2.554	-1.887	-1.220	-0.554	0.113	0.780	1.447	2.114
		Vz	0.309	0.500	0.690	0.880	1.070	1.261	1.451	1.641	1.831
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.67	2.36	1.90	1.29	0.54	-0.36	-1.40	-2.59	-3.93
		Mz	-3.84	-1.61	0.10	1.30	1.98	2.15	1.81	0.95	-0.42
	Vento 180	N	18.512	18.512	18.512	18.512	18.512	18.512	18.512	18.512	18.512
		Vy	0.585	0.585	0.585	0.585	0.585	0.585	0.585	0.585	0.585
		Vz	-1.070	-1.070	-1.070	-1.070	-1.070	-1.070	-1.070	-1.070	-1.070
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.42	-2.59	-1.76	-0.94	-0.11	0.71	1.54	2.36	3.19
		Mz	4.33	3.88	3.43	2.98	2.53	2.07	1.62	1.17	0.72
	Multidão (Passeio)	N	-28.044	-28.044	-28.044	-28.044	-28.044	-28.044	-28.044	-28.044	-28.044

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	2.071	2.071	2.071	2.071	2.071	2.071	2.071	2.071	2.071
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.70	5.10	3.51	1.91	0.31	-1.28	-2.88	-4.48	-6.08
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	Multidão - TB450	N	-91.222	-91.222	-91.222	-91.222	-91.222	-91.222	-91.222	-91.222	-91.222
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	6.737	6.737	6.737	6.737	6.737	6.737	6.737	6.737	6.737
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.81	16.62	11.43	6.23	1.04	-4.16	-9.35	-14.55	-19.74
		Mz	-0.38	-0.36	-0.34	-0.32	-0.30	-0.28	-0.27	-0.25	-0.23
	TB-450-A1	N	-24.875	-24.875	-24.875	-24.875	-24.875	-24.875	-24.875	-24.875	-24.875
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	1.567	1.567	1.567	1.567	1.567	1.567	1.567	1.567	1.567
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.88	3.67	2.46	1.25	0.05	-1.16	-2.37	-3.58	-4.79
		Mz	-0.04	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01
	TB-450-A2	N	-10.714	-10.714	-10.714	-10.714	-10.714	-10.714	-10.714	-10.714	-10.714
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.10	1.58	1.06	0.54	0.02	-0.50	-1.02	-1.54	-2.06
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01
	TB-450-B1	N	-71.553	-71.553	-71.553	-71.553	-71.553	-71.553	-71.553	-71.553	-71.553
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	4.512	4.512	4.512	4.512	4.512	4.512	4.512	4.512	4.512
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.05	10.57	7.09	3.61	0.14	-3.34	-6.82	-10.30	-13.78
		Mz	0.02	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01
	TB-450-B2	N	-30.416	-30.416	-30.416	-30.416	-30.416	-30.416	-30.416	-30.416	-30.416
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	1.918	1.918	1.918	1.918	1.918	1.918	1.918	1.918	1.918
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.97	4.49	3.01	1.54	0.06	-1.42	-2.90	-4.38	-5.86
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-C1	N	-44.526	-44.526	-44.526	-44.526	-44.526	-44.526	-44.526	-44.526	-44.526
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	2.807	2.807	2.807	2.807	2.807	2.807	2.807	2.807	2.807
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.91	6.74	4.58	2.41	0.25	-1.91	-4.08	-6.24	-8.41
		Mz	-0.57	-0.53	-0.49	-0.45	-0.41	-0.38	-0.34	-0.30	-0.26
	TB-450-C2	N	-105.073	-105.073	-105.073	-105.073	-105.073	-105.073	-105.073	-105.073	-105.073

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	6.638	6.638	6.638	6.638	6.638	6.638	6.638	6.638	6.638
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.03	15.92	10.80	5.68	0.56	-4.56	-9.67	-14.79	-19.91
		Mz	-0.47	-0.45	-0.43	-0.40	-0.38	-0.35	-0.33	-0.31	-0.28
	TB-450-D1	N	6.644	6.644	6.644	6.644	6.644	6.644	6.644	6.644	6.644
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	1.426	1.426	1.426	1.426	1.426	1.426	1.426	1.426	1.426
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.47	4.37	3.27	2.17	1.07	-0.03	-1.13	-2.23	-3.33
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	2.598	2.598	2.598	2.598	2.598	2.598	2.598	2.598	2.598
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.35	1.87	1.40	0.93	0.45	-0.02	-0.50	-0.97	-1.44
		Mz	-0.10	-0.09	-0.08	-0.07	-0.06	-0.05	-0.03	-0.02	-0.01
	TB-450-E1	N	18.961	18.961	18.961	18.961	18.961	18.961	18.961	18.961	18.961
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	-1.180	-1.180	-1.180	-1.180	-1.180	-1.180	-1.180	-1.180	-1.180
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.51	-2.60	-1.69	-0.78	0.13	1.04	1.95	2.86	3.77
		Mz	0.12	0.10	0.09	0.07	0.06	0.05	0.03	0.02	0.00
	TB-450-E2	N	9.371	9.371	9.371	9.371	9.371	9.371	9.371	9.371	9.371
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-0.583	-0.583	-0.583	-0.583	-0.583	-0.583	-0.583	-0.583	-0.583
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.74	-1.29	-0.84	-0.39	0.06	0.51	0.96	1.41	1.86
		Mz	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N219/N228	Peso próprio	N	106.970	107.713	108.456	109.199	109.942	110.684	111.427	112.170	112.913
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-8.441	-8.331	-8.221	-8.112	-8.002	-7.892	-7.782	-7.672	-7.562
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.71	-17.46	-11.30	-5.22	0.78	6.70	12.54	18.29	23.96
		Mz	0.04	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01
	Guarda Corpo	N	34.666	34.666	34.666	34.666	34.666	34.666	34.666	34.666	34.666

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-2.273	-2.273	-2.273	-2.273	-2.273	-2.273	-2.273	-2.273	-2.273
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.61	-4.91	-3.22	-1.53	0.16	1.86	3.55	5.24	6.93
		Mz	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	Laje	N	257.320	257.320	257.320	257.320	257.320	257.320	257.320	257.320	257.320
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	-16.872	-16.872	-16.872	-16.872	-16.872	-16.872	-16.872	-16.872	-16.872
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-49.04	-36.48	-23.91	-11.35	1.21	13.78	26.34	38.91	51.47
		Mz	0.26	0.22	0.19	0.16	0.13	0.10	0.07	0.03	0.00
	Pavimentação	N	140.905	140.905	140.905	140.905	140.905	140.905	140.905	140.905	140.905
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	-9.243	-9.243	-9.243	-9.243	-9.243	-9.243	-9.243	-9.243	-9.243
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-26.87	-19.99	-13.10	-6.22	0.66	7.55	14.43	21.31	28.20
		Mz	0.15	0.13	0.11	0.09	0.07	0.06	0.04	0.02	0.00
	Recapeamento	N	63.858	63.858	63.858	63.858	63.858	63.858	63.858	63.858	63.858
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-4.187	-4.187	-4.187	-4.187	-4.187	-4.187	-4.187	-4.187	-4.187
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.17	-9.05	-5.94	-2.82	0.30	3.42	6.54	9.66	12.77
		Mz	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
	Vento 0	N	18.491	18.518	18.545	18.572	18.600	18.627	18.654	18.681	18.708
		Vy	2.923	2.279	1.635	0.991	0.347	-0.297	-0.941	-1.585	-2.229
		Vz	-0.624	-0.808	-0.991	-1.175	-1.359	-1.542	-1.726	-1.909	-2.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.30	-2.76	-2.09	-1.29	-0.34	0.74	1.95	3.31	4.80
		Mz	1.92	-0.02	-1.48	-2.45	-2.95	-2.97	-2.51	-1.57	-0.15
	Vento 180	N	-18.548	-18.548	-18.548	-18.548	-18.548	-18.548	-18.548	-18.548	-18.548
		Vy	-0.406	-0.406	-0.406	-0.406	-0.406	-0.406	-0.406	-0.406	-0.406
		Vz	1.357	1.357	1.357	1.357	1.357	1.357	1.357	1.357	1.357
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.99	2.98	1.97	0.95	-0.06	-1.07	-2.08	-3.09	-4.10
		Mz	-2.77	-2.47	-2.17	-1.86	-1.56	-1.26	-0.96	-0.65	-0.35
	Multidão (Passeio)	N	44.994	44.994	44.994	44.994	44.994	44.994	44.994	44.994	44.994
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		My	-8.58	-6.38	-4.18	-1.99	0.21	2.41	4.61	6.80	9.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	146.754	146.754	146.754	146.754	146.754	146.754	146.754	146.754	146.754
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-9.623	-9.623	-9.623	-9.623	-9.623	-9.623	-9.623	-9.623	-9.623
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-27.97	-20.81	-13.64	-6.47	0.69	7.86	15.03	22.19	29.36
		Mz	0.21	0.18	0.16	0.13	0.11	0.08	0.06	0.03	0.01
	TB-450-A1	N	23.426	23.426	23.426	23.426	23.426	23.426	23.426	23.426	23.426
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.17	-3.88	-2.59	-1.30	-0.01	1.28	2.57	3.86	5.16
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	10.088	10.088	10.088	10.088	10.088	10.088	10.088	10.088	10.088
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.747	-0.747	-0.747	-0.747	-0.747	-0.747	-0.747	-0.747	-0.747
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.23	-1.67	-1.11	-0.56	0.00	0.55	1.11	1.67	2.22
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	67.626	67.626	67.626	67.626	67.626	67.626	67.626	67.626	67.626
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-4.999	-4.999	-4.999	-4.999	-4.999	-4.999	-4.999	-4.999	-4.999
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.91	-11.19	-7.46	-3.74	-0.02	3.70	7.43	11.15	14.87
		Mz	-0.05	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01
	TB-450-B2	N	28.747	28.747	28.747	28.747	28.747	28.747	28.747	28.747	28.747
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-2.126	-2.126	-2.126	-2.126	-2.126	-2.126	-2.126	-2.126	-2.126
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.34	-4.76	-3.17	-1.59	-0.01	1.58	3.16	4.74	6.33
		Mz	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00
	TB-450-C1	N	45.930	45.930	45.930	45.930	45.930	45.930	45.930	45.930	45.930
		Vy	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
		Vz	-3.378	-3.378	-3.378	-3.378	-3.378	-3.378	-3.378	-3.378	-3.378
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.03	-7.51	-4.99	-2.48	0.04	2.55	5.07	7.59	10.10
		Mz	0.38	0.33	0.29	0.25	0.20	0.16	0.11	0.07	0.03
	TB-450-C2	N	108.051	108.051	108.051	108.051	108.051	108.051	108.051	108.051	108.051

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	-7.940	-7.940	-7.940	-7.940	-7.940	-7.940	-7.940	-7.940	-7.940
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.57	-17.66	-11.75	-5.83	0.08	5.99	11.90	17.82	23.73
		Mz	0.27	0.24	0.21	0.18	0.14	0.11	0.08	0.05	0.02
	TB-450-D1	N	92.956	92.956	92.956	92.956	92.956	92.956	92.956	92.956	92.956
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-4.622	-4.622	-4.622	-4.622	-4.622	-4.622	-4.622	-4.622	-4.622
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.81	-9.37	-5.93	-2.48	0.96	4.40	7.84	11.28	14.72
		Mz	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.00
	TB-450-D2	N	39.502	39.502	39.502	39.502	39.502	39.502	39.502	39.502	39.502
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-1.970	-1.970	-1.970	-1.970	-1.970	-1.970	-1.970	-1.970	-1.970
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.46	-3.99	-2.53	-1.06	0.41	1.87	3.34	4.81	6.27
		Mz	0.09	0.08	0.07	0.06	0.05	0.03	0.02	0.01	0.00
	TB-450-E1	N	-11.302	-11.302	-11.302	-11.302	-11.302	-11.302	-11.302	-11.302	-11.302
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.90	2.25	1.60	0.94	0.29	-0.36	-1.02	-1.67	-2.32
		Mz	-0.11	-0.10	-0.08	-0.07	-0.06	-0.04	-0.03	-0.02	-0.01
	TB-450-E2	N	-6.025	-6.025	-6.025	-6.025	-6.025	-6.025	-6.025	-6.025	-6.025
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.49	1.15	0.81	0.47	0.13	-0.21	-0.56	-0.90	-1.24
		Mz	-0.10	-0.09	-0.08	-0.07	-0.06	-0.05	-0.03	-0.02	-0.01

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N220/N227	Peso próprio	N	-135.176	-134.406	-133.636	-132.866	-132.097	-131.327	-130.557	-129.787	-129.017
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	7.883	7.993	8.103	8.213	8.323	8.433	8.543	8.653	8.763
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.64	19.52	13.31	7.02	0.65	-5.81	-12.36	-18.99	-25.70
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
	Guarda Corpo	N	-34.598	-34.598	-34.598	-34.598	-34.598	-34.598	-34.598	-34.598	-34.598
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.49	5.65	3.81	1.96	0.12	-1.73	-3.57	-5.42	-7.26
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-256.880	-256.880	-256.880	-256.880	-256.880	-256.880	-256.880	-256.880	-256.880
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	17.759	17.759	17.759	17.759	17.759	17.759	17.759	17.759	17.759
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	55.64	41.95	28.26	14.56	0.87	-12.82	-26.51	-40.21	-53.90
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	Pavimentação	N	-140.692	-140.692	-140.692	-140.692	-140.692	-140.692	-140.692	-140.692	-140.692
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	9.723	9.723	9.723	9.723	9.723	9.723	9.723	9.723	9.723
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	30.46	22.97	15.47	7.97	0.48	-7.02	-14.52	-22.02	-29.51
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Recapeamento	N	-63.752	-63.752	-63.752	-63.752	-63.752	-63.752	-63.752	-63.752	-63.752
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	4.407	4.407	4.407	4.407	4.407	4.407	4.407	4.407	4.407
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.81	10.41	7.01	3.61	0.22	-3.18	-6.58	-9.98	-13.38
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 0	N	-19.841	-19.868	-19.895	-19.922	-19.949	-19.977	-20.004	-20.031	-20.058
		Vy	-3.198	-2.532	-1.865	-1.198	-0.531	0.136	0.802	1.469	2.136
		Vz	0.422	0.612	0.802	0.993	1.183	1.373	1.563	1.754	1.944
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	2.85	2.45	1.91	1.21	0.37	-0.61	-1.74	-3.02	-4.45
		Mz	-3.23	-1.02	0.67	1.85	2.52	2.67	2.31	1.44	0.05
	Vento 180	N	19.891	19.891	19.891	19.891	19.891	19.891	19.891	19.891	19.891
		Vy	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557	0.557
		Vz	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.60	-2.68	-1.77	-0.86	0.05	0.96	1.87	2.79	3.70
		Mz	3.80	3.37	2.94	2.51	2.08	1.65	1.22	0.79	0.36
	Multidão (Passeio)	N	-44.891	-44.891	-44.891	-44.891	-44.891	-44.891	-44.891	-44.891	-44.891
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104	3.104
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.72	7.33	4.94	2.55	0.15	-2.24	-4.63	-7.03	-9.42

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-146.545	-146.545	-146.545	-146.545	-146.545	-146.545	-146.545	-146.545	-146.545
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	10.130	10.130	10.130	10.130	10.130	10.130	10.130	10.130	10.130
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	31.74	23.93	16.12	8.31	0.50	-7.31	-15.12	-22.94	-30.75
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-A1	N	-23.980	-23.980	-23.980	-23.980	-23.980	-23.980	-23.980	-23.980	-23.980
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	1.506	1.506	1.506	1.506	1.506	1.506	1.506	1.506	1.506
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.63	3.47	2.31	1.15	-0.01	-1.18	-2.34	-3.50	-4.66
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	TB-450-A2	N	-10.328	-10.328	-10.328	-10.328	-10.328	-10.328	-10.328	-10.328	-10.328
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.00	1.50	0.99	0.49	-0.01	-0.51	-1.01	-1.51	-2.01
		Mz	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	TB-450-B1	N	-69.248	-69.248	-69.248	-69.248	-69.248	-69.248	-69.248	-69.248	-69.248
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	4.349	4.349	4.349	4.349	4.349	4.349	4.349	4.349	4.349
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.37	10.02	6.67	3.31	-0.04	-3.39	-6.74	-10.10	-13.45
		Mz	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.00
	TB-450-B2	N	-29.447	-29.447	-29.447	-29.447	-29.447	-29.447	-29.447	-29.447	-29.447
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	1.848	1.848	1.848	1.848	1.848	1.848	1.848	1.848	1.848
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.68	4.26	2.83	1.41	-0.02	-1.44	-2.87	-4.29	-5.72
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00
	TB-450-C1	N	-48.203	-48.203	-48.203	-48.203	-48.203	-48.203	-48.203	-48.203	-48.203
		Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vz	3.014	3.014	3.014	3.014	3.014	3.014	3.014	3.014	3.014
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.28	6.96	4.63	2.31	-0.02	-2.34	-4.66	-6.99	-9.31
		Mz	-0.21	-0.19	-0.16	-0.14	-0.12	-0.09	-0.07	-0.05	-0.03
	TB-450-C2	N	-113.132	-113.132	-113.132	-113.132	-113.132	-113.132	-113.132	-113.132	-113.132
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.81	16.35	10.89	5.43	-0.03	-5.49	-10.95	-16.41	-21.87

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-D1	N	-86.976	-86.976	-86.976	-86.976	-86.976	-86.976	-86.976	-86.976	-86.976
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	6.400	6.400	6.400	6.400	6.400	6.400	6.400	6.400	6.400
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.48	15.55	10.61	5.68	0.74	-4.19	-9.13	-14.06	-19.00
		Mz	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.01
	TB-450-D2	N	-36.999	-36.999	-36.999	-36.999	-36.999	-36.999	-36.999	-36.999	-36.999
		Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vz	2.717	2.717	2.717	2.717	2.717	2.717	2.717	2.717	2.717
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.69	6.60	4.50	2.41	0.31	-1.78	-3.88	-5.97	-8.07
		Mz	-0.19	-0.16	-0.14	-0.12	-0.10	-0.07	-0.05	-0.03	0.00
	TB-450-E1	N	13.515	13.515	13.515	13.515	13.515	13.515	13.515	13.515	13.515
		Vy	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28
		Mz	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.03	0.01
	TB-450-E2	N	6.785	6.785	6.785	6.785	6.785	6.785	6.785	6.785	6.785
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.04	0.02	0.07	0.12	0.17	0.23	0.28	0.33
		Mz	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N221/N226	Peso próprio	N	133.686	134.429	135.172	135.915	136.658	137.401	138.144	138.887	139.630
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-10.056	-9.946	-9.836	-9.726	-9.616	-9.506	-9.396	-9.286	-9.176
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-29.11	-21.66	-14.29	-7.01	0.19	7.31	14.35	21.31	28.18
		Mz	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	-0.01	0.00
	Guarda Corpo	N	42.764	42.764	42.764	42.764	42.764	42.764	42.764	42.764	42.764
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-2.770	-2.770	-2.770	-2.770	-2.770	-2.770	-2.770	-2.770	-2.770
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.27	-6.21	-4.14	-2.08	-0.02	2.04	4.11	6.17	8.23

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Laje	N	317.582	317.582	317.582	317.582	317.582	317.582	317.582	317.582	317.582
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-20.566	-20.566	-20.566	-20.566	-20.566	-20.566	-20.566	-20.566	-20.566
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-61.41	-46.09	-30.78	-15.46	-0.14	15.17	30.49	45.80	61.12
		Mz	-0.04	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02
	Pavimentação	N	173.755	173.755	173.755	173.755	173.755	173.755	173.755	173.755	173.755
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-11.255	-11.255	-11.255	-11.255	-11.255	-11.255	-11.255	-11.255	-11.255
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-33.61	-25.23	-16.84	-8.46	-0.08	8.30	16.68	25.07	33.45
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Recapeamento	N	78.804	78.804	78.804	78.804	78.804	78.804	78.804	78.804	78.804
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-5.104	-5.104	-5.104	-5.104	-5.104	-5.104	-5.104	-5.104	-5.104
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.24	-11.44	-7.64	-3.84	-0.04	3.76	7.57	11.37	15.17
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Vento 0	N	18.128	18.155	18.182	18.209	18.237	18.264	18.291	18.318	18.345
		Vy	3.111	2.467	1.823	1.179	0.535	-0.109	-0.754	-1.398	-2.042
		Vz	-0.485	-0.668	-0.852	-1.036	-1.219	-1.403	-1.586	-1.770	-1.954
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.92	-2.49	-1.93	-1.23	-0.39	0.59	1.70	2.95	4.34
		Mz	2.71	0.64	-0.96	-2.08	-2.72	-2.88	-2.55	-1.75	-0.47
	Vento 180	N	-18.118	-18.118	-18.118	-18.118	-18.118	-18.118	-18.118	-18.118	-18.118
		Vy	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587
		Vz	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.62	2.71	1.80	0.90	-0.01	-0.92	-1.83	-2.74	-3.65
		Mz	-3.52	-3.08	-2.65	-2.21	-1.77	-1.33	-0.90	-0.46	-0.02
	Multidão (Passeio)	N	55.483	55.483	55.483	55.483	55.483	55.483	55.483	55.483	55.483
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-3.594	-3.594	-3.594	-3.594	-3.594	-3.594	-3.594	-3.594	-3.594
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.73	-8.05	-5.38	-2.70	-0.03	2.65	5.33	8.00	10.68
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Multidão - TB450	N	181.154	181.154	181.154	181.154	181.154	181.154	181.154	181.154	181.154
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vz	-11.732	-11.732	-11.732	-11.732	-11.732	-11.732	-11.732	-11.732	-11.732
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-35.03	-26.29	-17.56	-8.82	-0.08	8.65	17.39	26.13	34.87
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A1	N	20.879	20.879	20.879	20.879	20.879	20.879	20.879	20.879	20.879
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-1.501	-1.501	-1.501	-1.501	-1.501	-1.501	-1.501	-1.501	-1.501
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.56	-3.44	-2.32	-1.20	-0.09	1.03	2.15	3.27	4.38
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00
	TB-450-A2	N	8.993	8.993	8.993	8.993	8.993	8.993	8.993	8.993	8.993
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.96	-1.48	-1.00	-0.52	-0.04	0.44	0.93	1.41	1.89
		Mz	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-B1	N	60.320	60.320	60.320	60.320	60.320	60.320	60.320	60.320	60.320
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-4.337	-4.337	-4.337	-4.337	-4.337	-4.337	-4.337	-4.337	-4.337
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.17	-9.94	-6.71	-3.48	-0.25	2.98	6.21	9.44	12.67
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	TB-450-B2	N	25.661	25.661	25.661	25.661	25.661	25.661	25.661	25.661	25.661
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-1.843	-1.843	-1.843	-1.843	-1.843	-1.843	-1.843	-1.843	-1.843
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.60	-4.22	-2.85	-1.48	-0.11	1.27	2.64	4.01	5.39
		Mz	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.00
	TB-450-C1	N	42.497	42.497	42.497	42.497	42.497	42.497	42.497	42.497	42.497
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-3.043	-3.043	-3.043	-3.043	-3.043	-3.043	-3.043	-3.043	-3.043
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.23	-6.96	-4.69	-2.43	-0.16	2.11	4.37	6.64	8.91
		Mz	0.20	0.17	0.15	0.12	0.10	0.07	0.04	0.02	-0.01
	TB-450-C2	N	99.606	99.606	99.606	99.606	99.606	99.606	99.606	99.606	99.606
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-7.144	-7.144	-7.144	-7.144	-7.144	-7.144	-7.144	-7.144	-7.144
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-21.67	-16.35	-11.03	-5.71	-0.39	4.93	10.25	15.57	20.89

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	TB-450-D1	N	128.414	128.414	128.414	128.414	128.414	128.414	128.414	128.414	128.414
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-8.106	-8.106	-8.106	-8.106	-8.106	-8.106	-8.106	-8.106	-8.106
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.19	-18.15	-12.11	-6.08	-0.04	6.00	12.03	18.07	24.11
		Mz	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.00	0.00
	TB-450-D2	N	54.499	54.499	54.499	54.499	54.499	54.499	54.499	54.499	54.499
		Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vz	-3.439	-3.439	-3.439	-3.439	-3.439	-3.439	-3.439	-3.439	-3.439
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.26	-7.70	-5.14	-2.58	-0.01	2.55	5.11	7.67	10.23
		Mz	0.18	0.15	0.13	0.11	0.08	0.06	0.04	0.02	-0.01
	TB-450-E1	N	33.499	33.499	33.499	33.499	33.499	33.499	33.499	33.499	33.499
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.03	-2.15	-1.27	-0.38	0.50	1.38	2.26	3.14	4.02
		Mz	-0.15	-0.13	-0.11	-0.09	-0.07	-0.05	-0.03	-0.01	0.01
	TB-450-E2	N	14.197	14.197	14.197	14.197	14.197	14.197	14.197	14.197	14.197
		Vy	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025
		Vz	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.15	-0.80	-0.45	-0.10	0.26	0.61	0.96	1.31	1.66
		Mz	-0.15	-0.13	-0.12	-0.10	-0.08	-0.06	-0.04	-0.02	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N222/N225	Peso próprio	N	-137.100	-136.330	-135.561	-134.791	-134.021	-133.251	-132.481	-131.712	-130.942
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	7.260	7.370	7.480	7.590	7.700	7.810	7.920	8.030	8.140
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.68	17.04	11.32	5.51	-0.39	-6.37	-12.43	-18.58	-24.81
		Mz	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Guarda Corpo	N	-36.036	-36.036	-36.036	-36.036	-36.036	-36.036	-36.036	-36.036	-36.036
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.218
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		My	6.67	4.96	3.25	1.53	-0.18	-1.89	-3.60	-5.31	-7.02
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-267.613	-267.613	-267.613	-267.613	-267.613	-267.613	-267.613	-267.613	-267.613
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	16.473	16.473	16.473	16.473	16.473	16.473	16.473	16.473	16.473
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.50	36.80	24.10	11.40	-1.30	-14.00	-26.71	-39.41	-52.11
		Mz	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	Pavimentação	N	-146.448	-146.448	-146.448	-146.448	-146.448	-146.448	-146.448	-146.448	-146.448
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	9.012	9.012	9.012	9.012	9.012	9.012	9.012	9.012	9.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.08	20.13	13.18	6.24	-0.71	-7.66	-14.61	-21.56	-28.51
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Recapeamento	N	-66.407	-66.407	-66.407	-66.407	-66.407	-66.407	-66.407	-66.407	-66.407
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	4.088	4.088	4.088	4.088	4.088	4.088	4.088	4.088	4.088
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.28	9.13	5.98	2.83	-0.32	-3.48	-6.63	-9.78	-12.93
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-15.686	-15.713	-15.740	-15.767	-15.794	-15.821	-15.849	-15.876	-15.903
		Vy	-2.537	-1.870	-1.203	-0.536	0.131	0.797	1.464	2.131	2.798
		Vz	0.196	0.387	0.577	0.767	0.957	1.148	1.338	1.528	1.718
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	2.11	1.88	1.51	0.99	0.33	-0.48	-1.44	-2.55	-3.80
		Mz	0.26	1.96	3.14	3.81	3.97	3.61	2.74	1.35	-0.55
	Vento 180	N	15.941	15.941	15.941	15.941	15.941	15.941	15.941	15.941	15.941
		Vy	-0.195	-0.195	-0.195	-0.195	-0.195	-0.195	-0.195	-0.195	-0.195
		Vz	-0.956	-0.956	-0.956	-0.956	-0.956	-0.956	-0.956	-0.956	-0.956
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-2.85	-2.11	-1.37	-0.64	0.10	0.84	1.57	2.31	3.05
		Mz	-0.66	-0.51	-0.36	-0.21	-0.06	0.09	0.24	0.39	0.54
	Multidão (Passeio)	N	-46.754	-46.754	-46.754	-46.754	-46.754	-46.754	-46.754	-46.754	-46.754
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	2.878	2.878	2.878	2.878	2.878	2.878	2.878	2.878	2.878
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.65	6.43	4.21	1.99	-0.23	-2.45	-4.67	-6.88	-9.10
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-152.658	-152.658	-152.658	-152.658	-152.658	-152.658	-152.658	-152.658	-152.658
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	9.397	9.397	9.397	9.397	9.397	9.397	9.397	9.397	9.397
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		My	28.24	20.99	13.75	6.50	-0.74	-7.99	-15.23	-22.48	-29.72
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-A1	N	-18.991	-18.991	-18.991	-18.991	-18.991	-18.991	-18.991	-18.991	-18.991
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063	1.063
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.16	2.34	1.52	0.70	-0.12	-0.94	-1.76	-2.58	-3.40
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-A2	N	-8.180	-8.180	-8.180	-8.180	-8.180	-8.180	-8.180	-8.180	-8.180
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.36	1.01	0.65	0.30	-0.05	-0.41	-0.76	-1.11	-1.47
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-54.882	-54.882	-54.882	-54.882	-54.882	-54.882	-54.882	-54.882	-54.882
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	3.071	3.071	3.071	3.071	3.071	3.071	3.071	3.071	3.071
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.12	6.75	4.38	2.01	-0.36	-2.72	-5.09	-7.46	-9.83
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01
	TB-450-B2	N	-23.335	-23.335	-23.335	-23.335	-23.335	-23.335	-23.335	-23.335	-23.335
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.88	2.87	1.86	0.86	-0.15	-1.16	-2.17	-3.18	-4.18
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-38.749	-38.749	-38.749	-38.749	-38.749	-38.749	-38.749	-38.749	-38.749
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.45	4.77	3.10	1.42	-0.25	-1.92	-3.60	-5.27	-6.95
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
	TB-450-C2	N	-90.873	-90.873	-90.873	-90.873	-90.873	-90.873	-90.873	-90.873	-90.873
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	5.087	5.087	5.087	5.087	5.087	5.087	5.087	5.087	5.087
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.10	11.18	7.26	3.34	-0.59	-4.51	-8.43	-12.35	-16.28
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00	0.01	0.01
	TB-450-D1	N	-115.127	-115.127	-115.127	-115.127	-115.127	-115.127	-115.127	-115.127	-115.127
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	6.491	6.491	6.491	6.491	6.491	6.491	6.491	6.491	6.491
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		My	19.49	14.49	9.48	4.48	-0.53	-5.53	-10.54	-15.54	-20.55
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-D2	N	-48.847	-48.847	-48.847	-48.847	-48.847	-48.847	-48.847	-48.847	-48.847
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.27	6.15	4.03	1.90	-0.22	-2.35	-4.47	-6.60	-8.72
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-E1	N	-13.845	-13.845	-13.845	-13.845	-13.845	-13.845	-13.845	-13.845	-13.845
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	1.917	1.917	1.917	1.917	1.917	1.917	1.917	1.917	1.917
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.05	4.57	3.09	1.61	0.14	-1.34	-2.82	-4.30	-5.77
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-E2	N	-3.823	-3.823	-3.823	-3.823	-3.823	-3.823	-3.823	-3.823	-3.823
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.78	2.10	1.43	0.75	0.08	-0.59	-1.27	-1.94	-2.62
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N223/N224	Peso próprio	N	188.850	191.121	193.392	195.663	197.934	200.204	202.475	204.746	207.017
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-18.514	-18.178	-17.842	-17.506	-17.170	-16.834	-16.498	-16.162	-15.826
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-63.38	-49.72	-36.31	-23.14	-10.23	2.43	14.84	27.00	38.91
		Mz	-0.02	-0.03	-0.05	-0.06	-0.08	-0.09	-0.11	-0.12	-0.14
	Guarda Corpo	N	60.294	60.294	60.294	60.294	60.294	60.294	60.294	60.294	60.294
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-4.989	-4.989	-4.989	-4.989	-4.989	-4.989	-4.989	-4.989	-4.989
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.98	-14.26	-10.55	-6.83	-3.12	0.60	4.31	8.03	11.74
		Mz	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03
	Laje	N	447.799	447.799	447.799	447.799	447.799	447.799	447.799	447.799	447.799
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	-37.047	-37.047	-37.047	-37.047	-37.047	-37.047	-37.047	-37.047	-37.047
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		My	-133.52	-105.93	-78.34	-50.75	-23.16	4.43	32.02	59.61	87.20
		Mz	-0.05	-0.07	-0.10	-0.12	-0.14	-0.16	-0.18	-0.20	-0.22
	Pavimentação	N	244.869	244.869	244.869	244.869	244.869	244.869	244.869	244.869	244.869
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-20.267	-20.267	-20.267	-20.267	-20.267	-20.267	-20.267	-20.267	-20.267
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-73.04	-57.94	-42.85	-27.76	-12.66	2.43	17.52	32.61	47.71
		Mz	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08	-0.10	-0.11	-0.12
	Recapeamento	N	111.107	111.107	111.107	111.107	111.107	111.107	111.107	111.107	111.107
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-9.193	-9.193	-9.193	-9.193	-9.193	-9.193	-9.193	-9.193	-9.193
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-33.13	-26.28	-19.44	-12.59	-5.75	1.10	7.95	14.79	21.64
		Mz	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05
	Vento 0	N	23.588	23.615	23.642	23.669	23.696	23.723	23.751	23.778	23.805
		Vy	2.116	1.472	0.828	0.184	-0.460	-1.104	-1.748	-2.392	-3.036
		Vz	-1.366	-1.550	-1.733	-1.917	-2.101	-2.284	-2.468	-2.652	-2.835
		Mt	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
		My	-6.91	-5.82	-4.60	-3.24	-1.74	-0.11	1.66	3.57	5.61
		Mz	-1.08	-2.42	-3.27	-3.65	-3.55	-2.96	-1.90	-0.36	1.66
	Vento 180	N	-24.352	-24.352	-24.352	-24.352	-24.352	-24.352	-24.352	-24.352	-24.352
		Vy	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287
		Vz	2.171	2.171	2.171	2.171	2.171	2.171	2.171	2.171	2.171
		Mt	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38
		My	7.59	5.97	4.36	2.74	1.12	-0.50	-2.11	-3.73	-5.35
		Mz	-0.93	-1.15	-1.36	-1.58	-1.79	-2.00	-2.22	-2.43	-2.64
	Multidão (Passeio)	N	78.228	78.228	78.228	78.228	78.228	78.228	78.228	78.228	78.228
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-6.472	-6.472	-6.472	-6.472	-6.472	-6.472	-6.472	-6.472	-6.472
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.33	-18.51	-13.69	-8.87	-4.05	0.77	5.59	10.41	15.23
		Mz	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04
	Multidão - TB450	N	255.410	255.410	255.410	255.410	255.410	255.410	255.410	255.410	255.410
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-21.132	-21.132	-21.132	-21.132	-21.132	-21.132	-21.132	-21.132	-21.132
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-76.16	-60.42	-44.68	-28.95	-13.21	2.53	18.27	34.00	49.74
		Mz	-0.03	-0.04	-0.05	-0.07	-0.08	-0.09	-0.10	-0.11	-0.13
	TB-450-A1	N	23.275	23.275	23.275	23.275	23.275	23.275	23.275	23.275	23.275

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-2.312	-2.312	-2.312	-2.312	-2.312	-2.312	-2.312	-2.312	-2.312
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.12	-6.40	-4.68	-2.96	-1.24	0.48	2.21	3.93	5.65
		Mz	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03
	TB-450-A2	N	10.007	10.007	10.007	10.007	10.007	10.007	10.007	10.007	10.007
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.995	-0.995	-0.995	-0.995	-0.995	-0.995	-0.995	-0.995	-0.995
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.50	-2.76	-2.01	-1.27	-0.53	0.21	0.95	1.69	2.43
		Mz	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-B1	N	67.208	67.208	67.208	67.208	67.208	67.208	67.208	67.208	67.208
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-6.678	-6.678	-6.678	-6.678	-6.678	-6.678	-6.678	-6.678	-6.678
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-23.47	-18.49	-13.52	-8.55	-3.57	1.40	6.37	11.35	16.32
		Mz	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06	-0.06	-0.07	-0.07
	TB-450-B2	N	28.684	28.684	28.684	28.684	28.684	28.684	28.684	28.684	28.684
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-2.846	-2.846	-2.846	-2.846	-2.846	-2.846	-2.846	-2.846	-2.846
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-10.00	-7.88	-5.76	-3.64	-1.52	0.60	2.72	4.84	6.96
		Mz	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06
	TB-450-C1	N	47.824	47.824	47.824	47.824	47.824	47.824	47.824	47.824	47.824
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-4.734	-4.734	-4.734	-4.734	-4.734	-4.734	-4.734	-4.734	-4.734
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-16.63	-13.11	-9.58	-6.06	-2.53	0.99	4.52	8.04	11.57
		Mz	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.07	0.07
	TB-450-C2	N	111.702	111.702	111.702	111.702	111.702	111.702	111.702	111.702	111.702
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-11.076	-11.076	-11.076	-11.076	-11.076	-11.076	-11.076	-11.076	-11.076
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-38.93	-30.68	-22.43	-14.18	-5.93	2.32	10.56	18.81	27.06
		Mz	-0.02	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06	-0.07	-0.07
	TB-450-D1	N	152.693	152.693	152.693	152.693	152.693	152.693	152.693	152.693	152.693
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-14.668	-14.668	-14.668	-14.668	-14.668	-14.668	-14.668	-14.668	-14.668
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		My	-51.80	-40.87	-29.95	-19.03	-8.10	2.82	13.74	24.67	35.59
		Mz	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04	-0.04
	TB-450-D2	N	64.910	64.910	64.910	64.910	64.910	64.910	64.910	64.910	64.910
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-6.231	-6.231	-6.231	-6.231	-6.231	-6.231	-6.231	-6.231	-6.231
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-22.00	-17.36	-12.72	-8.08	-3.44	1.20	5.84	10.48	15.12
		Mz	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05
	TB-450-E1	N	105.018	105.018	105.018	105.018	105.018	105.018	105.018	105.018	105.018
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-4.915	-4.915	-4.915	-4.915	-4.915	-4.915	-4.915	-4.915	-4.915
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-19.58	-15.92	-12.26	-8.60	-4.94	-1.28	2.38	6.04	9.70
		Mz	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	TB-450-E2	N	54.256	54.256	54.256	54.256	54.256	54.256	54.256	54.256	54.256
		Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vz	-2.221	-2.221	-2.221	-2.221	-2.221	-2.221	-2.221	-2.221	-2.221
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-9.21	-7.56	-5.90	-4.25	-2.60	-0.94	0.71	2.36	4.02
		Mz	-0.04	-0.07	-0.09	-0.11	-0.14	-0.16	-0.18	-0.21	-0.23

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
N13/N56	Peso próprio	N	-300.745	-298.369	-295.993	-293.616	-291.240	-288.864	-286.488	-284.111	-281.735
		Vy	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150
		Vz	11.055	11.583	12.110	12.637	13.165	13.692	14.219	14.747	15.274
		Mt	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		My	54.32	45.39	36.03	26.26	16.08	5.47	-5.55	-16.98	-28.84
		Mz	-0.65	-0.53	-0.41	-0.29	-0.17	-0.06	0.06	0.18	0.30
	Guarda Corpo	N	-76.953	-76.953	-76.953	-76.953	-76.953	-76.953	-76.953	-76.953	-76.953
		Vy	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057
		Vz	3.441	3.441	3.441	3.441	3.441	3.441	3.441	3.441	3.441
		Mt	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		My	14.55	11.83	9.11	6.40	3.68	0.96	-1.76	-4.47	-7.19
		Mz	-0.39	-0.35	-0.30	-0.25	-0.21	-0.16	-0.12	-0.07	-0.03
	Laje	N	-571.533	-571.533	-571.533	-571.533	-571.533	-571.533	-571.533	-571.533	-571.533
		Vy	-0.419	-0.419	-0.419	-0.419	-0.419	-0.419	-0.419	-0.419	-0.419
		Vz	25.561	25.561	25.561	25.561	25.561	25.561	25.561	25.561	25.561

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
		Mt	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
		My	108.06	87.88	67.70	47.51	27.33	7.14	-13.04	-33.22	-53.41
		Mz	-2.86	-2.53	-2.20	-1.87	-1.54	-1.21	-0.88	-0.55	-0.22
	Pavimentação	N	-312.524	-312.524	-312.524	-312.524	-312.524	-312.524	-312.524	-312.524	-312.524
		Vy	-0.229	-0.229	-0.229	-0.229	-0.229	-0.229	-0.229	-0.229	-0.229
		Vz	13.976	13.976	13.976	13.976	13.976	13.976	13.976	13.976	13.976
		Mt	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
		My	59.08	48.04	37.01	25.97	14.93	3.90	-7.14	-18.17	-29.21
		Mz	-1.56	-1.38	-1.20	-1.02	-0.84	-0.66	-0.48	-0.30	-0.12
	Recapeamento	N	-141.807	-141.807	-141.807	-141.807	-141.807	-141.807	-141.807	-141.807	-141.807
		Vy	-0.104	-0.104	-0.104	-0.104	-0.104	-0.104	-0.104	-0.104	-0.104
		Vz	6.342	6.342	6.342	6.342	6.342	6.342	6.342	6.342	6.342
		Mt	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
		My	26.81	21.80	16.80	11.79	6.78	1.77	-3.24	-8.24	-13.25
		Mz	-0.71	-0.63	-0.55	-0.46	-0.38	-0.30	-0.22	-0.14	-0.05
	Vento 0	N	-30.386	-30.429	-30.472	-30.514	-30.557	-30.600	-30.642	-30.685	-30.728
		Vy	-5.150	-4.468	-3.785	-3.102	-2.419	-1.736	-1.053	-0.370	0.313
		Vz	-0.104	0.088	0.280	0.473	0.665	0.857	1.049	1.241	1.433
		Mt	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61
		My	2.00	2.00	1.86	1.56	1.11	0.51	-0.24	-1.15	-2.20
		Mz	-10.21	-6.41	-3.15	-0.44	1.74	3.38	4.49	5.05	5.07
	Vento 180	N	30.288	30.288	30.288	30.288	30.288	30.288	30.288	30.288	30.288
		Vy	2.388	2.388	2.388	2.388	2.388	2.388	2.388	2.388	2.388
		Vz	-0.544	-0.544	-0.544	-0.544	-0.544	-0.544	-0.544	-0.544	-0.544
		Mt	-4.59	-4.59	-4.59	-4.59	-4.59	-4.59	-4.59	-4.59	-4.59
		My	-1.91	-1.48	-1.05	-0.62	-0.19	0.24	0.67	1.10	1.53
		Mz	10.50	8.61	6.73	4.84	2.96	1.07	-0.81	-2.70	-4.58
	Multidão (Passeio)	N	-99.841	-99.841	-99.841	-99.841	-99.841	-99.841	-99.841	-99.841	-99.841
		Vy	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076
		Vz	4.464	4.464	4.464	4.464	4.464	4.464	4.464	4.464	4.464
		Mt	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		My	18.87	15.35	11.82	8.30	4.77	1.25	-2.28	-5.80	-9.33
		Mz	-0.51	-0.45	-0.39	-0.33	-0.27	-0.21	-0.15	-0.09	-0.03
	Multidão - TB450	N	-325.985	-325.985	-325.985	-325.985	-325.985	-325.985	-325.985	-325.985	-325.985
		Vy	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235
		Vz	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580
		Mt	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		My	61.64	50.13	38.61	27.10	15.59	4.07	-7.44	-18.95	-30.47
		Mz	-1.61	-1.43	-1.24	-1.06	-0.87	-0.69	-0.50	-0.31	-0.13

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
	TB-450-A1	N	-29.395	-29.395	-29.395	-29.395	-29.395	-29.395	-29.395	-29.395	-29.395
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	1.264	1.264	1.264	1.264	1.264	1.264	1.264	1.264	1.264
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	4.98	3.98	2.98	1.98	0.99	-0.01	-1.01	-2.01	-3.01
		Mz	0.01	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04
	TB-450-A2	N	-12.640	-12.640	-12.640	-12.640	-12.640	-12.640	-12.640	-12.640	-12.640
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	2.15	1.72	1.29	0.86	0.43	0.00	-0.44	-0.87	-1.30
		Mz	0.04	0.03	0.02	0.01	0.00	0.00	-0.01	-0.02	-0.03
	TB-450-B1	N	-84.888	-84.888	-84.888	-84.888	-84.888	-84.888	-84.888	-84.888	-84.888
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	3.659	3.659	3.659	3.659	3.659	3.659	3.659	3.659	3.659
		Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
		My	14.42	11.53	8.64	5.75	2.86	-0.03	-2.92	-5.81	-8.70
		Mz	0.16	0.13	0.09	0.06	0.02	-0.01	-0.04	-0.08	-0.11
	TB-450-B2	N	-36.210	-36.210	-36.210	-36.210	-36.210	-36.210	-36.210	-36.210	-36.210
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	1.546	1.546	1.546	1.546	1.546	1.546	1.546	1.546	1.546
		Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
		My	6.08	4.86	3.64	2.42	1.20	-0.02	-1.24	-2.46	-3.68
		Mz	-0.15	-0.13	-0.10	-0.07	-0.04	-0.02	0.01	0.04	0.07
	TB-450-C1	N	-60.419	-60.419	-60.419	-60.419	-60.419	-60.419	-60.419	-60.419	-60.419
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	2.580	2.580	2.580	2.580	2.580	2.580	2.580	2.580	2.580
		Mt	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
		My	10.16	8.12	6.09	4.05	2.01	-0.02	-2.06	-4.10	-6.14
		Mz	-0.21	-0.18	-0.14	-0.10	-0.07	-0.03	0.01	0.04	0.08
	TB-450-C2	N	-141.177	-141.177	-141.177	-141.177	-141.177	-141.177	-141.177	-141.177	-141.177
		Vy	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
		Vz	6.082	6.082	6.082	6.082	6.082	6.082	6.082	6.082	6.082
		Mt	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
		My	23.98	19.17	14.37	9.57	4.77	-0.03	-4.84	-9.64	-14.44
		Mz	0.26	0.21	0.16	0.11	0.06	0.01	-0.04	-0.09	-0.14
	TB-450-D1	N	-196.927	-196.927	-196.927	-196.927	-196.927	-196.927	-196.927	-196.927	-196.927
		Vy	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vz	8.355	8.355	8.355	8.355	8.355	8.355	8.355	8.355	8.355

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
		Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
		My	33.49	26.89	20.29	13.70	7.10	0.50	-6.10	-12.69	-19.29
		Mz	0.19	0.16	0.12	0.08	0.05	0.01	-0.03	-0.06	-0.10
	TB-450-D2	N	-83.679	-83.679	-83.679	-83.679	-83.679	-83.679	-83.679	-83.679	-83.679
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	3.532	3.532	3.532	3.532	3.532	3.532	3.532	3.532	3.532
		Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
		My	14.15	11.36	8.57	5.78	2.99	0.20	-2.59	-5.38	-8.17
		Mz	-0.19	-0.16	-0.13	-0.10	-0.07	-0.04	-0.01	0.02	0.05
	TB-450-E1	N	-134.506	-134.506	-134.506	-134.506	-134.506	-134.506	-134.506	-134.506	-134.506
		Vy	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200
		Vz	6.001	6.001	6.001	6.001	6.001	6.001	6.001	6.001	6.001
		Mt	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
		My	28.61	23.88	19.14	14.40	9.66	4.92	0.18	-4.55	-9.29
		Mz	-1.27	-1.11	-0.95	-0.80	-0.64	-0.48	-0.32	-0.16	-0.01
	TB-450-E2	N	-69.479	-69.479	-69.479	-69.479	-69.479	-69.479	-69.479	-69.479	-69.479
		Vy	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235
		Vz	3.474	3.474	3.474	3.474	3.474	3.474	3.474	3.474	3.474
		Mt	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
		My	16.79	14.05	11.30	8.56	5.82	3.07	0.33	-2.41	-5.16
		Mz	-1.61	-1.42	-1.24	-1.05	-0.87	-0.68	-0.49	-0.31	-0.12

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
N7/N41	Peso próprio	N	-297.709	-295.351	-292.993	-290.634	-288.276	-285.918	-283.560	-281.202	-278.844
		Vy	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175
		Vz	11.107	11.634	12.162	12.689	13.216	13.744	14.271	14.798	15.326
		Mt	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		My	53.45	44.53	35.21	25.47	15.31	4.75	-6.23	-17.63	-29.43
		Mz	-0.65	-0.51	-0.37	-0.24	-0.10	0.04	0.18	0.31	0.45
	Guarda Corpo	N	-76.004	-76.004	-76.004	-76.004	-76.004	-76.004	-76.004	-76.004	-76.004
		Vy	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060
		Vz	3.476	3.476	3.476	3.476	3.476	3.476	3.476	3.476	3.476
		Mt	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		My	14.41	11.69	8.96	6.24	3.51	0.79	-1.94	-4.66	-7.39
		Mz	-0.39	-0.34	-0.29	-0.25	-0.20	-0.15	-0.10	-0.06	-0.01
	Laje	N	-564.286	-564.286	-564.286	-564.286	-564.286	-564.286	-564.286	-564.286	-564.286
		Vy	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
		Vz	25.851	25.851	25.851	25.851	25.851	25.851	25.851	25.851	25.851
		Mt	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
		My	107.21	86.95	66.69	46.42	26.16	5.89	-14.37	-34.63	-54.90
		Mz	-2.84	-2.49	-2.15	-1.80	-1.46	-1.11	-0.77	-0.42	-0.07
	Pavimentação	N	-308.547	-308.547	-308.547	-308.547	-308.547	-308.547	-308.547	-308.547	-308.547
		Vy	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241
		Vz	14.133	14.133	14.133	14.133	14.133	14.133	14.133	14.133	14.133
		Mt	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
		My	58.61	47.53	36.45	25.37	14.29	3.21	-7.87	-18.94	-30.02
		Mz	-1.55	-1.36	-1.17	-0.98	-0.79	-0.61	-0.42	-0.23	-0.04
	Recapeamento	N	-140.005	-140.005	-140.005	-140.005	-140.005	-140.005	-140.005	-140.005	-140.005
		Vy	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109
		Vz	6.415	6.415	6.415	6.415	6.415	6.415	6.415	6.415	6.415
		Mt	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
		My	26.60	21.58	16.55	11.52	6.49	1.46	-3.57	-8.59	-13.62
		Mz	-0.70	-0.62	-0.53	-0.45	-0.36	-0.28	-0.19	-0.10	-0.02
	Vento 0	N	-26.743	-26.701	-26.658	-26.615	-26.573	-26.530	-26.487	-26.445	-26.402
		Vy	5.291	4.613	3.935	3.257	2.579	1.901	1.223	0.545	-0.133
		Vz	2.975	2.784	2.593	2.403	2.212	2.021	1.831	1.640	1.449
		Mt	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54	-4.54
		My	9.88	7.62	5.51	3.56	1.75	0.09	-1.42	-2.78	-3.99
		Mz	11.06	7.18	3.83	1.01	-1.28	-3.03	-4.26	-4.95	-5.11
	Vento 180	N	26.886	26.886	26.886	26.886	26.886	26.886	26.886	26.886	26.886
		Vy	-2.526	-2.526	-2.526	-2.526	-2.526	-2.526	-2.526	-2.526	-2.526
		Vz	-2.307	-2.307	-2.307	-2.307	-2.307	-2.307	-2.307	-2.307	-2.307
		Mt	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
		My	-9.84	-8.03	-6.23	-4.42	-2.61	-0.80	1.01	2.82	4.63
		Mz	-11.28	-9.30	-7.32	-5.34	-3.36	-1.38	0.60	2.58	4.56
	Multidão (Passeio)	N	-98.650	-98.650	-98.650	-98.650	-98.650	-98.650	-98.650	-98.650	-98.650
		Vy	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080
		Vz	4.503	4.503	4.503	4.503	4.503	4.503	4.503	4.503	4.503
		Mt	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		My	18.66	15.13	11.61	8.08	4.55	1.02	-2.51	-6.04	-9.57
		Mz	-0.51	-0.45	-0.39	-0.32	-0.26	-0.20	-0.13	-0.07	-0.01
	Multidão - TB450	N	-321.744	-321.744	-321.744	-321.744	-321.744	-321.744	-321.744	-321.744	-321.744
		Vy	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248	-0.248
		Vz	14.763	14.763	14.763	14.763	14.763	14.763	14.763	14.763	14.763
		Mt	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		My	61.24	49.67	38.10	26.52	14.95	3.38	-8.19	-19.77	-31.34

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
		Mz	-1.60	-1.40	-1.21	-1.02	-0.82	-0.63	-0.43	-0.24	-0.05
	TB-450-A1	N	-162.333	-162.333	-162.333	-162.333	-162.333	-162.333	-162.333	-162.333	-162.333
		Vy	-0.460	-0.460	-0.460	-0.460	-0.460	-0.460	-0.460	-0.460	-0.460
		Vz	8.316	8.316	8.316	8.316	8.316	8.316	8.316	8.316	8.316
		Mt	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
		My	39.55	33.03	26.51	20.00	13.48	6.96	0.44	-6.08	-12.60
		Mz	-2.98	-2.62	-2.26	-1.90	-1.54	-1.18	-0.81	-0.45	-0.09
	TB-450-A2	N	-68.552	-68.552	-68.552	-68.552	-68.552	-68.552	-68.552	-68.552	-68.552
		Vy	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230	-0.230
		Vz	3.533	3.533	3.533	3.533	3.533	3.533	3.533	3.533	3.533
		Mt	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
		My	16.80	14.03	11.26	8.49	5.72	2.95	0.19	-2.58	-5.35
		Mz	-1.49	-1.30	-1.12	-0.94	-0.76	-0.58	-0.40	-0.22	-0.04
	TB-450-B1	N	-194.900	-194.900	-194.900	-194.900	-194.900	-194.900	-194.900	-194.900	-194.900
		Vy	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
		Vz	8.639	8.639	8.639	8.639	8.639	8.639	8.639	8.639	8.639
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	34.05	27.28	20.51	13.73	6.96	0.19	-6.58	-13.35	-20.13
		Mz	0.16	0.13	0.09	0.06	0.03	-0.01	-0.04	-0.07	-0.11
	TB-450-B2	N	-82.465	-82.465	-82.465	-82.465	-82.465	-82.465	-82.465	-82.465	-82.465
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	3.380	3.380	3.380	3.380	3.380	3.380	3.380	3.380	3.380
		Mt	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
		My	13.11	10.46	7.82	5.17	2.52	-0.13	-2.78	-5.43	-8.08
		Mz	-0.14	-0.10	-0.07	-0.03	0.00	0.04	0.07	0.11	0.14
	TB-450-C1	N	-58.937	-58.937	-58.937	-58.937	-58.937	-58.937	-58.937	-58.937	-58.937
		Vy	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062
		Vz	2.319	2.319	2.319	2.319	2.319	2.319	2.319	2.319	2.319
		Mt	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
		My	8.72	6.91	5.09	3.27	1.45	-0.36	-2.18	-4.00	-5.82
		Mz	-0.21	-0.17	-0.12	-0.07	-0.02	0.03	0.08	0.13	0.17
	TB-450-C2	N	-139.666	-139.666	-139.666	-139.666	-139.666	-139.666	-139.666	-139.666	-139.666
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	6.460	6.460	6.460	6.460	6.460	6.460	6.460	6.460	6.460
		Mt	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
		My	25.19	20.13	15.07	10.00	4.94	-0.12	-5.19	-10.25	-15.32
		Mz	0.26	0.21	0.16	0.11	0.06	0.01	-0.05	-0.10	-0.15
	TB-450-D1	N	-84.722	-84.722	-84.722	-84.722	-84.722	-84.722	-84.722	-84.722	-84.722
		Vy	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
		Vz	3.976	3.976	3.976	3.976	3.976	3.976	3.976	3.976	3.976
		Mt	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
		My	15.54	12.42	9.31	6.19	3.07	-0.04	-3.16	-6.28	-9.39
		Mz	0.21	0.17	0.13	0.09	0.05	0.01	-0.03	-0.07	-0.11
	TB-450-D2	N	-35.905	-35.905	-35.905	-35.905	-35.905	-35.905	-35.905	-35.905	-35.905
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048
		Vz	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	4.97	3.92	2.87	1.82	0.77	-0.28	-1.33	-2.38	-3.43
		Mz	-0.19	-0.15	-0.12	-0.08	-0.04	0.00	0.03	0.07	0.11
	TB-450-E1	N	-24.408	-24.408	-24.408	-24.408	-24.408	-24.408	-24.408	-24.408	-24.408
		Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vz	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	4.65	3.72	2.80	1.87	0.94	0.02	-0.91	-1.84	-2.77
		Mz	0.09	0.07	0.06	0.04	0.02	0.01	-0.01	-0.03	-0.05
	TB-450-E2	N	-11.741	-11.741	-11.741	-11.741	-11.741	-11.741	-11.741	-11.741	-11.741
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	1.57	1.23	0.90	0.57	0.23	-0.10	-0.44	-0.77	-1.10
		Mz	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	0.00	0.01	0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N206/N241	Peso próprio	N	190.278	192.560	194.843	197.125	199.408	201.691	203.973	206.256	208.538
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	-18.353	-18.017	-17.682	-17.346	-17.011	-16.676	-16.340	-16.005	-15.669
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-62.79	-49.18	-35.82	-22.71	-9.86	2.75	15.10	27.21	39.06
		Mz	0.01	-0.01	-0.03	-0.05	-0.07	-0.09	-0.11	-0.13	-0.15
	Guarda Corpo	N	60.587	60.587	60.587	60.587	60.587	60.587	60.587	60.587	60.587
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-4.928	-4.928	-4.928	-4.928	-4.928	-4.928	-4.928	-4.928	-4.928
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.77	-14.09	-10.40	-6.71	-3.02	0.67	4.36	8.04	11.73
		Mz	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
	Laje	N	449.792	449.792	449.792	449.792	449.792	449.792	449.792	449.792	449.792

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	-36.578	-36.578	-36.578	-36.578	-36.578	-36.578	-36.578	-36.578	-36.578
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-131.94	-104.56	-77.19	-49.81	-22.43	4.94	32.32	59.69	87.07
		Mz	-0.06	-0.09	-0.12	-0.16	-0.19	-0.22	-0.25	-0.28	-0.32
	Pavimentação	N	245.948	245.948	245.948	245.948	245.948	245.948	245.948	245.948	245.948
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	-20.009	-20.009	-20.009	-20.009	-20.009	-20.009	-20.009	-20.009	-20.009
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-72.17	-57.19	-42.22	-27.24	-12.27	2.71	17.68	32.66	47.63
		Mz	-0.03	-0.05	-0.07	-0.08	-0.10	-0.12	-0.14	-0.15	-0.17
	Recapeamento	N	111.598	111.598	111.598	111.598	111.598	111.598	111.598	111.598	111.598
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-9.076	-9.076	-9.076	-9.076	-9.076	-9.076	-9.076	-9.076	-9.076
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-32.74	-25.94	-19.15	-12.36	-5.57	1.23	8.02	14.81	21.60
		Mz	-0.01	-0.02	-0.03	-0.04	-0.05	-0.05	-0.06	-0.07	-0.08
	Vento 0	N	21.522	21.494	21.467	21.440	21.413	21.386	21.359	21.332	21.305
		Vy	-2.091	-1.444	-0.797	-0.150	0.498	1.145	1.792	2.439	3.087
		Vz	-2.722	-2.537	-2.353	-2.168	-1.984	-1.799	-1.614	-1.430	-1.245
		Mt	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43
		My	-7.78	-5.81	-3.98	-2.29	-0.74	0.68	1.96	3.09	4.10
		Mz	0.84	2.16	3.00	3.35	3.22	2.61	1.51	-0.07	-2.14
	Vento 180	N	-20.836	-20.836	-20.836	-20.836	-20.836	-20.836	-20.836	-20.836	-20.836
		Vy	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320
		Vz	1.927	1.927	1.927	1.927	1.927	1.927	1.927	1.927	1.927
		Mt	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
		My	7.12	5.68	4.24	2.80	1.35	-0.09	-1.53	-2.97	-4.41
		Mz	1.15	1.39	1.63	1.87	2.11	2.35	2.59	2.83	3.07
	Multidão (Passeio)	N	78.647	78.647	78.647	78.647	78.647	78.647	78.647	78.647	78.647
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.07	-18.28	-13.50	-8.71	-3.92	0.87	5.66	10.45	15.24
		Mz	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05
	Multidão - TB450	N	256.444	256.444	256.444	256.444	256.444	256.444	256.444	256.444	256.444
		Vy	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vz	-20.853	-20.853	-20.853	-20.853	-20.853	-20.853	-20.853	-20.853	-20.853
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		My	-75.22	-59.62	-44.01	-28.40	-12.80	2.81	18.42	34.02	49.63
		Mz	-0.04	-0.05	-0.07	-0.09	-0.11	-0.13	-0.15	-0.16	-0.18
	TB-450-A1	N	128.625	128.625	128.625	128.625	128.625	128.625	128.625	128.625	128.625
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-5.189	-5.189	-5.189	-5.189	-5.189	-5.189	-5.189	-5.189	-5.189
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-21.51	-17.62	-13.74	-9.86	-5.98	-2.09	1.79	5.67	9.56
		Mz	-0.05	-0.06	-0.08	-0.09	-0.10	-0.12	-0.13	-0.15	-0.16
	TB-450-A2	N	54.295	54.295	54.295	54.295	54.295	54.295	54.295	54.295	54.295
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	-2.186	-2.186	-2.186	-2.186	-2.186	-2.186	-2.186	-2.186	-2.186
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.07	-7.44	-5.80	-4.16	-2.53	-0.89	0.74	2.38	4.02
		Mz	0.01	-0.01	-0.03	-0.06	-0.08	-0.10	-0.12	-0.15	-0.17
	TB-450-B1	N	153.748	153.748	153.748	153.748	153.748	153.748	153.748	153.748	153.748
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-14.485	-14.485	-14.485	-14.485	-14.485	-14.485	-14.485	-14.485	-14.485
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-51.26	-40.42	-29.58	-18.74	-7.90	2.94	13.78	24.63	35.47
		Mz	-0.05	-0.06	-0.07	-0.07	-0.08	-0.09	-0.10	-0.11	-0.12
	TB-450-B2	N	65.264	65.264	65.264	65.264	65.264	65.264	65.264	65.264	65.264
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-6.172	-6.172	-6.172	-6.172	-6.172	-6.172	-6.172	-6.172	-6.172
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-21.76	-17.14	-12.52	-7.90	-3.28	1.34	5.96	10.58	15.20
		Mz	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.08
	TB-450-C1	N	47.709	47.709	47.709	47.709	47.709	47.709	47.709	47.709	47.709
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-4.665	-4.665	-4.665	-4.665	-4.665	-4.665	-4.665	-4.665	-4.665
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-16.33	-12.84	-9.35	-5.86	-2.37	1.13	4.62	8.11	11.60
		Mz	0.05	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.11
	TB-450-C2	N	112.319	112.319	112.319	112.319	112.319	112.319	112.319	112.319	112.319
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-10.907	-10.907	-10.907	-10.907	-10.907	-10.907	-10.907	-10.907	-10.907
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-38.47	-30.31	-22.14	-13.98	-5.82	2.34	10.51	18.67	26.83
		Mz	-0.06	-0.07	-0.08	-0.09	-0.10	-0.11	-0.12	-0.13	-0.14
	TB-450-D1	N	68.130	68.130	68.130	68.130	68.130	68.130	68.130	68.130	68.130

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-6.624	-6.624	-6.624	-6.624	-6.624	-6.624	-6.624	-6.624	-6.624
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-23.38	-18.42	-13.46	-8.50	-3.55	1.41	6.37	11.33	16.28
		Mz	-0.04	-0.04	-0.05	-0.06	-0.07	-0.07	-0.08	-0.09	-0.10
	TB-450-D2	N	29.136	29.136	29.136	29.136	29.136	29.136	29.136	29.136	29.136
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-2.860	-2.860	-2.860	-2.860	-2.860	-2.860	-2.860	-2.860	-2.860
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-9.99	-7.85	-5.71	-3.57	-1.43	0.71	2.85	5.00	7.14
		Mz	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07
	TB-450-E1	N	19.600	19.600	19.600	19.600	19.600	19.600	19.600	19.600	19.600
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-1.903	-1.903	-1.903	-1.903	-1.903	-1.903	-1.903	-1.903	-1.903
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-6.73	-5.30	-3.88	-2.45	-1.03	0.39	1.82	3.24	4.67
		Mz	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04	-0.04
	TB-450-E2	N	9.538	9.538	9.538	9.538	9.538	9.538	9.538	9.538	9.538
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.938	-0.938	-0.938	-0.938	-0.938	-0.938	-0.938	-0.938	-0.938
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.27	-2.57	-1.87	-1.17	-0.46	0.24	0.94	1.64	2.34
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N207/N240	Peso próprio	N	-135.970	-135.204	-134.438	-133.672	-132.906	-132.140	-131.374	-130.608	-129.842
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	7.365	7.474	7.584	7.694	7.804	7.913	8.023	8.133	8.243
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.87	17.17	11.40	5.53	-0.41	-6.44	-12.55	-18.75	-25.04
		Mz	0.02	0.00	-0.01	-0.02	-0.03	-0.05	-0.06	-0.07	-0.08
	Guarda Corpo	N	-35.647	-35.647	-35.647	-35.647	-35.647	-35.647	-35.647	-35.647	-35.647
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	2.245	2.245	2.245	2.245	2.245	2.245	2.245	2.245	2.245
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.71	4.99	3.26	1.54	-0.18	-1.90	-3.63	-5.35	-7.07
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-264.578	-264.578	-264.578	-264.578	-264.578	-264.578	-264.578	-264.578	-264.578

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	16.667	16.667	16.667	16.667	16.667	16.667	16.667	16.667	16.667
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.81	37.02	24.23	11.45	-1.34	-14.13	-26.92	-39.71	-52.50
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03
	Pavimentação	N	-144.780	-144.780	-144.780	-144.780	-144.780	-144.780	-144.780	-144.780	-144.780
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	9.118	9.118	9.118	9.118	9.118	9.118	9.118	9.118	9.118
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.25	20.25	13.26	6.26	-0.74	-7.73	-14.73	-21.72	-28.72
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Recapeamento	N	-65.651	-65.651	-65.651	-65.651	-65.651	-65.651	-65.651	-65.651	-65.651
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	4.136	4.136	4.136	4.136	4.136	4.136	4.136	4.136	4.136
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.36	9.19	6.01	2.84	-0.33	-3.51	-6.68	-9.85	-13.03
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 0	N	-16.735	-16.708	-16.681	-16.654	-16.627	-16.600	-16.573	-16.545	-16.518
		Vy	2.511	1.847	1.184	0.520	-0.143	-0.807	-1.471	-2.134	-2.798
		Vz	1.733	1.544	1.354	1.165	0.976	0.786	0.597	0.408	0.219
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	3.63	2.37	1.26	0.30	-0.53	-1.20	-1.73	-2.12	-2.36
		Mz	-0.31	-1.98	-3.15	-3.80	-3.94	-3.58	-2.71	-1.32	0.57
	Vento 180	N	16.543	16.543	16.543	16.543	16.543	16.543	16.543	16.543	16.543
		Vy	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
		Vz	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-2.91	-2.15	-1.40	-0.65	0.10	0.85	1.61	2.36	3.11
		Mz	0.67	0.52	0.36	0.20	0.04	-0.12	-0.28	-0.43	-0.59
	Multidão (Passeio)	N	-46.278	-46.278	-46.278	-46.278	-46.278	-46.278	-46.278	-46.278	-46.278
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	2.914	2.914	2.914	2.914	2.914	2.914	2.914	2.914	2.914
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.71	6.47	4.24	2.00	-0.24	-2.47	-4.71	-6.94	-9.18
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Multidão - TB450	N	-150.848	-150.848	-150.848	-150.848	-150.848	-150.848	-150.848	-150.848	-150.848
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	9.503	9.503	9.503	9.503	9.503	9.503	9.503	9.503	9.503
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	28.40	21.11	13.82	6.53	-0.77	-8.06	-15.35	-22.64	-29.93
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A1	N	-8.569	-8.569	-8.569	-8.569	-8.569	-8.569	-8.569	-8.569	-8.569

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	2.082	2.082	2.082	2.082	2.082	2.082	2.082	2.082	2.082
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.58	4.98	3.38	1.78	0.19	-1.41	-3.01	-4.61	-6.20
		Mz	-0.04	-0.04	-0.04	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02
	TB-450-A2	N	-3.595	-3.595	-3.595	-3.595	-3.595	-3.595	-3.595	-3.595	-3.595
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.879	0.879	0.879	0.879	0.879	0.879	0.879	0.879	0.879
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.78	2.10	1.43	0.75	0.08	-0.60	-1.27	-1.94	-2.62
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-114.099	-114.099	-114.099	-114.099	-114.099	-114.099	-114.099	-114.099	-114.099
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	6.583	6.583	6.583	6.583	6.583	6.583	6.583	6.583	6.583
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.66	14.61	9.56	4.51	-0.55	-5.60	-10.65	-15.70	-20.75
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.01
	TB-450-B2	N	-48.420	-48.420	-48.420	-48.420	-48.420	-48.420	-48.420	-48.420	-48.420
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	2.787	2.787	2.787	2.787	2.787	2.787	2.787	2.787	2.787
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.32	6.18	4.04	1.91	-0.23	-2.37	-4.51	-6.65	-8.79
		Mz	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00
	TB-450-C1	N	-38.150	-38.150	-38.150	-38.150	-38.150	-38.150	-38.150	-38.150	-38.150
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179	2.179
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.43	4.76	3.09	1.42	-0.26	-1.93	-3.60	-5.27	-6.94
		Mz	0.04	0.03	0.03	0.02	0.01	0.01	0.00	0.00	-0.01
	TB-450-C2	N	-89.925	-89.925	-89.925	-89.925	-89.925	-89.925	-89.925	-89.925	-89.925
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	5.158	5.158	5.158	5.158	5.158	5.158	5.158	5.158	5.158
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.23	11.27	7.32	3.36	-0.60	-4.56	-8.51	-12.47	-16.43
		Mz	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01
	TB-450-D1	N	-54.732	-54.732	-54.732	-54.732	-54.732	-54.732	-54.732	-54.732	-54.732
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.27	6.86	4.45	2.04	-0.37	-2.78	-5.19	-7.59	-10.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01
	TB-450-D2	N	-23.367	-23.367	-23.367	-23.367	-23.367	-23.367	-23.367	-23.367	-23.367

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	1.332	1.332	1.332	1.332	1.332	1.332	1.332	1.332	1.332
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.93	2.91	1.89	0.86	-0.16	-1.18	-2.20	-3.22	-4.25
		Mz	0.02	0.01	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.01
	TB-450-E1	N	-15.753	-15.753	-15.753	-15.753	-15.753	-15.753	-15.753	-15.753	-15.753
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.67	1.98	1.28	0.59	-0.11	-0.80	-1.49	-2.19	-2.88
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-7.649	-7.649	-7.649	-7.649	-7.649	-7.649	-7.649	-7.649	-7.649
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.29	0.95	0.62	0.28	-0.05	-0.39	-0.72	-1.05	-1.39
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N208/N239	Peso próprio	N	134.003	134.750	135.497	136.243	136.990	137.737	138.484	139.230	139.977
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-9.905	-9.796	-9.686	-9.576	-9.466	-9.357	-9.247	-9.137	-9.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-28.79	-21.42	-14.13	-6.92	0.20	7.25	14.21	21.09	27.88
		Mz	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03
	Guarda Corpo	N	42.798	42.798	42.798	42.798	42.798	42.798	42.798	42.798	42.798
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-2.722	-2.722	-2.722	-2.722	-2.722	-2.722	-2.722	-2.722	-2.722
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.17	-6.13	-4.09	-2.05	-0.02	2.02	4.06	6.09	8.13
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Laje	N	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701	317.701
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	-20.205	-20.205	-20.205	-20.205	-20.205	-20.205	-20.205	-20.205	-20.205
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-60.61	-45.49	-30.37	-15.25	-0.13	14.99	30.12	45.24	60.36
		Mz	-0.19	-0.16	-0.14	-0.11	-0.09	-0.07	-0.04	-0.02	0.01
	Pavimentação	N	173.812	173.812	173.812	173.812	173.812	173.812	173.812	173.812	173.812

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	-11.057	-11.057	-11.057	-11.057	-11.057	-11.057	-11.057	-11.057	-11.057
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-33.17	-24.90	-16.62	-8.35	-0.07	8.20	16.48	24.76	33.03
		Mz	-0.11	-0.09	-0.08	-0.06	-0.05	-0.04	-0.02	-0.01	0.00
	Recapeamento	N	78.831	78.831	78.831	78.831	78.831	78.831	78.831	78.831	78.831
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-5.014	-5.014	-5.014	-5.014	-5.014	-5.014	-5.014	-5.014	-5.014
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.04	-11.29	-7.54	-3.78	-0.03	3.72	7.47	11.23	14.98
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	0.00	0.00
	Vento 0	N	19.124	19.097	19.070	19.043	19.016	18.989	18.962	18.935	18.907
		Vy	-3.239	-2.592	-1.945	-1.297	-0.650	-0.003	0.644	1.291	1.939
		Vz	-2.027	-1.842	-1.658	-1.473	-1.289	-1.104	-0.919	-0.735	-0.550
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.60	-3.15	-1.84	-0.67	0.36	1.26	2.01	2.63	3.11
		Mz	-3.42	-1.24	0.46	1.67	2.40	2.65	2.41	1.68	0.47
	Vento 180	N	-19.160	-19.160	-19.160	-19.160	-19.160	-19.160	-19.160	-19.160	-19.160
		Vy	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696
		Vz	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292	1.292
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.91	2.94	1.98	1.01	0.04	-0.93	-1.89	-2.86	-3.83
		Mz	4.17	3.65	3.13	2.61	2.09	1.57	1.05	0.53	0.01
	Multidão (Passeio)	N	55.554	55.554	55.554	55.554	55.554	55.554	55.554	55.554	55.554
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.60	-7.96	-5.31	-2.67	-0.02	2.62	5.27	7.91	10.56
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	181.151	181.151	181.151	181.151	181.151	181.151	181.151	181.151	181.151
		Vy	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025
		Vz	-11.520	-11.520	-11.520	-11.520	-11.520	-11.520	-11.520	-11.520	-11.520
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-34.56	-25.94	-17.32	-8.69	-0.07	8.55	17.17	25.79	34.42
		Mz	-0.14	-0.12	-0.10	-0.09	-0.07	-0.05	-0.03	-0.01	0.01
	TB-450-A1	N	33.307	33.307	33.307	33.307	33.307	33.307	33.307	33.307	33.307
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-1.079	-1.079	-1.079	-1.079	-1.079	-1.079	-1.079	-1.079	-1.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		My	-2.63	-1.82	-1.01	-0.20	0.61	1.41	2.22	3.03	3.84
		Mz	0.04	0.04	0.03	0.02	0.02	0.01	0.00	-0.01	-0.01
	TB-450-A2	N	14.057	14.057	14.057	14.057	14.057	14.057	14.057	14.057	14.057
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.454	-0.454	-0.454	-0.454	-0.454	-0.454	-0.454	-0.454	-0.454
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.10	-0.76	-0.42	-0.08	0.26	0.60	0.94	1.28	1.62
		Mz	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.01	0.01
	TB-450-B1	N	128.739	128.739	128.739	128.739	128.739	128.739	128.739	128.739	128.739
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	-7.980	-7.980	-7.980	-7.980	-7.980	-7.980	-7.980	-7.980	-7.980
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.93	-17.95	-11.98	-6.01	-0.04	5.94	11.91	17.88	23.85
		Mz	-0.20	-0.18	-0.15	-0.13	-0.10	-0.08	-0.05	-0.03	0.00
	TB-450-B2	N	54.490	54.490	54.490	54.490	54.490	54.490	54.490	54.490	54.490
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-3.385	-3.385	-3.385	-3.385	-3.385	-3.385	-3.385	-3.385	-3.385
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.15	-7.62	-5.08	-2.55	-0.02	2.52	5.05	7.58	10.12
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.02
	TB-450-C1	N	42.198	42.198	42.198	42.198	42.198	42.198	42.198	42.198	42.198
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-2.976	-2.976	-2.976	-2.976	-2.976	-2.976	-2.976	-2.976	-2.976
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.07	-6.84	-4.62	-2.39	-0.16	2.07	4.29	6.52	8.75
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
	TB-450-C2	N	99.935	99.935	99.935	99.935	99.935	99.935	99.935	99.935	99.935
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	-7.028	-7.028	-7.028	-7.028	-7.028	-7.028	-7.028	-7.028	-7.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-21.42	-16.16	-10.90	-5.64	-0.38	4.88	10.14	15.40	20.66
		Mz	-0.23	-0.20	-0.17	-0.14	-0.11	-0.09	-0.06	-0.03	0.00
	TB-450-D1	N	61.009	61.009	61.009	61.009	61.009	61.009	61.009	61.009	61.009
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-4.298	-4.298	-4.298	-4.298	-4.298	-4.298	-4.298	-4.298	-4.298
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.11	-9.90	-6.68	-3.46	-0.24	2.97	6.19	9.41	12.62
		Mz	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	TB-450-D2	N	25.870	25.870	25.870	25.870	25.870	25.870	25.870	25.870	25.870

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.58	-4.21	-2.84	-1.47	-0.11	1.26	2.63	4.00	5.37
		Mz	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.01	0.00
	TB-450-E1	N	17.581	17.581	17.581	17.581	17.581	17.581	17.581	17.581	17.581
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-1.238	-1.238	-1.238	-1.238	-1.238	-1.238	-1.238	-1.238	-1.238
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.78	-2.85	-1.92	-1.00	-0.07	0.86	1.78	2.71	3.64
		Mz	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	-0.01	0.00
	TB-450-E2	N	8.462	8.462	8.462	8.462	8.462	8.462	8.462	8.462	8.462
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.599	-0.599	-0.599	-0.599	-0.599	-0.599	-0.599	-0.599	-0.599
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.83	-1.38	-0.93	-0.48	-0.03	0.41	0.86	1.31	1.76
		Mz	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N209/N238	Peso próprio	N	-133.843	-133.077	-132.311	-131.545	-130.779	-130.013	-129.247	-128.481	-127.715
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	8.008	8.118	8.228	8.337	8.447	8.557	8.667	8.776	8.886
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.88	19.69	13.42	7.06	0.62	-5.90	-12.51	-19.20	-25.98
		Mz	-0.05	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03
	Guarda Corpo	N	-34.163	-34.163	-34.163	-34.163	-34.163	-34.163	-34.163	-34.163	-34.163
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.55	5.69	3.83	1.97	0.11	-1.75	-3.61	-5.47	-7.33
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	Laje	N	-253.542	-253.542	-253.542	-253.542	-253.542	-253.542	-253.542	-253.542	-253.542
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	17.995	17.995	17.995	17.995	17.995	17.995	17.995	17.995	17.995
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	56.05	42.24	28.44	14.63	0.82	-12.98	-26.79	-40.60	-54.41
		Mz	0.16	0.15	0.13	0.11	0.09	0.07	0.05	0.04	0.02
	Pavimentação	N	-138.858	-138.858	-138.858	-138.858	-138.858	-138.858	-138.858	-138.858	-138.858

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	9.852	9.852	9.852	9.852	9.852	9.852	9.852	9.852	9.852
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	30.69	23.13	15.57	8.01	0.45	-7.11	-14.67	-22.23	-29.79
		Mz	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01
	Recapeamento	N	-62.921	-62.921	-62.921	-62.921	-62.921	-62.921	-62.921	-62.921	-62.921
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	4.465	4.465	4.465	4.465	4.465	4.465	4.465	4.465	4.465
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.91	10.48	7.06	3.63	0.20	-3.22	-6.65	-10.07	-13.50
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	Vento 0	N	-20.481	-20.454	-20.426	-20.399	-20.372	-20.345	-20.318	-20.291	-20.264
		Vy	3.327	2.663	1.999	1.336	0.672	0.009	-0.655	-1.318	-1.982
		Vz	2.067	1.878	1.688	1.499	1.310	1.120	0.931	0.742	0.552
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.73	3.21	1.84	0.62	-0.46	-1.39	-2.18	-2.82	-3.31
		Mz	3.88	1.59	-0.20	-1.48	-2.25	-2.51	-2.27	-1.51	-0.24
	Vento 180	N	20.448	20.448	20.448	20.448	20.448	20.448	20.448	20.448	20.448
		Vy	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702
		Vz	-1.311	-1.311	-1.311	-1.311	-1.311	-1.311	-1.311	-1.311	-1.311
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.99	-2.99	-1.98	-0.97	0.03	1.04	2.04	3.05	4.06
		Mz	-4.49	-3.95	-3.41	-2.87	-2.33	-1.79	-1.25	-0.71	-0.18
	Multidão (Passeio)	N	-44.350	-44.350	-44.350	-44.350	-44.350	-44.350	-44.350	-44.350	-44.350
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	3.147	3.147	3.147	3.147	3.147	3.147	3.147	3.147	3.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.80	7.39	4.97	2.56	0.14	-2.27	-4.69	-7.10	-9.52
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-144.580	-144.580	-144.580	-144.580	-144.580	-144.580	-144.580	-144.580	-144.580
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	10.261	10.261	10.261	10.261	10.261	10.261	10.261	10.261	10.261
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	31.96	24.09	16.21	8.34	0.47	-7.40	-15.28	-23.15	-31.02
		Mz	0.13	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.01
	TB-450-A1	N	16.304	16.304	16.304	16.304	16.304	16.304	16.304	16.304	16.304
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184	-0.184
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.28	-0.14	0.00	0.14	0.28	0.42	0.56	0.71	0.85
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	TB-450-A2	N	6.916	6.916	6.916	6.916	6.916	6.916	6.916	6.916	6.916

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.13	-0.06	0.00	0.06	0.12	0.18	0.24	0.30	0.36
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01
	TB-450-B1	N	-85.994	-85.994	-85.994	-85.994	-85.994	-85.994	-85.994	-85.994	-85.994
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	6.500	6.500	6.500	6.500	6.500	6.500	6.500	6.500	6.500
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.68	15.69	10.70	5.71	0.73	-4.26	-9.25	-14.24	-19.22
		Mz	0.17	0.15	0.13	0.10	0.08	0.06	0.04	0.01	-0.01
	TB-450-B2	N	-36.535	-36.535	-36.535	-36.535	-36.535	-36.535	-36.535	-36.535	-36.535
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	2.758	2.758	2.758	2.758	2.758	2.758	2.758	2.758	2.758
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.77	6.66	4.54	2.42	0.31	-1.81	-3.92	-6.04	-8.16
		Mz	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.01	0.01
	TB-450-C1	N	-47.473	-47.473	-47.473	-47.473	-47.473	-47.473	-47.473	-47.473	-47.473
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	3.045	3.045	3.045	3.045	3.045	3.045	3.045	3.045	3.045
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.32	6.99	4.65	2.31	-0.02	-2.36	-4.70	-7.03	-9.37
		Mz	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
	TB-450-C2	N	-112.021	-112.021	-112.021	-112.021	-112.021	-112.021	-112.021	-112.021	-112.021
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	7.191	7.191	7.191	7.191	7.191	7.191	7.191	7.191	7.191
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.02	16.50	10.98	5.47	-0.05	-5.57	-11.09	-16.60	-22.12
		Mz	0.22	0.19	0.17	0.14	0.12	0.09	0.07	0.04	0.02
	TB-450-D1	N	-69.013	-69.013	-69.013	-69.013	-69.013	-69.013	-69.013	-69.013	-69.013
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	4.444	4.444	4.444	4.444	4.444	4.444	4.444	4.444	4.444
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.59	10.18	6.77	3.36	-0.05	-3.46	-6.87	-10.28	-13.69
		Mz	0.07	0.06	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-D2	N	-29.372	-29.372	-29.372	-29.372	-29.372	-29.372	-29.372	-29.372	-29.372
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	1.890	1.890	1.890	1.890	1.890	1.890	1.890	1.890	1.890
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.78	4.33	2.88	1.43	-0.02	-1.47	-2.92	-4.37	-5.82
		Mz	-0.09	-0.08	-0.07	-0.06	-0.05	-0.03	-0.02	-0.01	0.00
	TB-450-E1	N	-19.890	-19.890	-19.890	-19.890	-19.890	-19.890	-19.890	-19.890	-19.890

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	1.281	1.281	1.281	1.281	1.281	1.281	1.281	1.281	1.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.92	2.93	1.95	0.97	-0.02	-1.00	-1.98	-2.96	-3.95
		Mz	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00
	TB-450-E2	N	-9.616	-9.616	-9.616	-9.616	-9.616	-9.616	-9.616	-9.616	-9.616
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.89	1.42	0.94	0.47	-0.01	-0.48	-0.96	-1.43	-1.91
		Mz	-0.05	-0.04	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N210/N237	Peso próprio	N	107.468	108.214	108.961	109.708	110.455	111.201	111.948	112.695	113.442
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-8.329	-8.220	-8.110	-8.000	-7.890	-7.781	-7.671	-7.561	-7.451
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.49	-17.29	-11.18	-5.15	0.79	6.66	12.44	18.14	23.76
		Mz	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
	Guarda Corpo	N	34.742	34.742	34.742	34.742	34.742	34.742	34.742	34.742	34.742
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-2.238	-2.238	-2.238	-2.238	-2.238	-2.238	-2.238	-2.238	-2.238
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.53	-4.86	-3.18	-1.51	0.17	1.84	3.52	5.19	6.87
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00
	Laje	N	257.814	257.814	257.814	257.814	257.814	257.814	257.814	257.814	257.814
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	-16.612	-16.612	-16.612	-16.612	-16.612	-16.612	-16.612	-16.612	-16.612
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-48.50	-36.07	-23.64	-11.20	1.23	13.66	26.09	38.53	50.96
		Mz	-0.32	-0.28	-0.25	-0.21	-0.17	-0.14	-0.10	-0.07	-0.03
	Pavimentação	N	141.172	141.172	141.172	141.172	141.172	141.172	141.172	141.172	141.172
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	-9.100	-9.100	-9.100	-9.100	-9.100	-9.100	-9.100	-9.100	-9.100
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-26.57	-19.76	-12.95	-6.14	0.67	7.48	14.29	21.10	27.91
		Mz	-0.18	-0.16	-0.14	-0.12	-0.10	-0.08	-0.06	-0.04	-0.02

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
	Recapeamento	N	63.979	63.979	63.979	63.979	63.979	63.979	63.979	63.979	63.979
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-4.123	-4.123	-4.123	-4.123	-4.123	-4.123	-4.123	-4.123	-4.123
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.04	-8.95	-5.87	-2.78	0.30	3.39	6.48	9.56	12.65
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01
	Vento 0	N	19.704	19.677	19.650	19.623	19.596	19.569	19.542	19.515	19.487
		Vy	-2.989	-2.342	-1.695	-1.047	-0.400	0.247	0.894	1.542	2.189
		Vz	-2.238	-2.053	-1.869	-1.684	-1.500	-1.315	-1.130	-0.946	-0.761
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.18	-3.57	-2.11	-0.78	0.41	1.47	2.38	3.16	3.80
		Mz	-2.14	-0.14	1.37	2.39	2.94	2.99	2.57	1.65	0.26
	Vento 180	N	-19.693	-19.693	-19.693	-19.693	-19.693	-19.693	-19.693	-19.693	-19.693
		Vy	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456
		Vz	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.48	3.36	2.23	1.11	-0.01	-1.13	-2.26	-3.38	-4.50
		Mz	2.95	2.61	2.27	1.93	1.59	1.25	0.91	0.56	0.22
	Multidão (Passeio)	N	45.109	45.109	45.109	45.109	45.109	45.109	45.109	45.109	45.109
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-2.905	-2.905	-2.905	-2.905	-2.905	-2.905	-2.905	-2.905	-2.905
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.48	-6.31	-4.13	-1.96	0.21	2.39	4.56	6.74	8.91
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Multidão - TB450	N	146.994	146.994	146.994	146.994	146.994	146.994	146.994	146.994	146.994
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-9.474	-9.474	-9.474	-9.474	-9.474	-9.474	-9.474	-9.474	-9.474
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-27.66	-20.57	-13.48	-6.39	0.70	7.79	14.88	21.97	29.06
		Mz	-0.24	-0.21	-0.19	-0.16	-0.13	-0.10	-0.08	-0.05	-0.02
	TB-450-A1	N	-14.610	-14.610	-14.610	-14.610	-14.610	-14.610	-14.610	-14.610	-14.610
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	1.086	1.086	1.086	1.086	1.086	1.086	1.086	1.086	1.086
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.56	2.74	1.93	1.12	0.30	-0.51	-1.32	-2.13	-2.95
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-6.204	-6.204	-6.204	-6.204	-6.204	-6.204	-6.204	-6.204	-6.204
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.51	1.16	0.82	0.47	0.13	-0.22	-0.56	-0.91	-1.25
		Mz	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	TB-450-B1	N	93.149	93.149	93.149	93.149	93.149	93.149	93.149	93.149	93.149
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	-4.562	-4.562	-4.562	-4.562	-4.562	-4.562	-4.562	-4.562	-4.562
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.70	-9.29	-5.87	-2.46	0.95	4.37	7.78	11.20	14.61
		Mz	-0.12	-0.11	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01
	TB-450-B2	N	39.534	39.534	39.534	39.534	39.534	39.534	39.534	39.534	39.534
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-1.943	-1.943	-1.943	-1.943	-1.943	-1.943	-1.943	-1.943	-1.943
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.41	-3.96	-2.50	-1.05	0.40	1.86	3.31	4.77	6.22
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	45.980	45.980	45.980	45.980	45.980	45.980	45.980	45.980	45.980
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-3.328	-3.328	-3.328	-3.328	-3.328	-3.328	-3.328	-3.328	-3.328
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.93	-7.44	-4.95	-2.46	0.03	2.53	5.02	7.51	10.00
		Mz	-0.18	-0.16	-0.14	-0.12	-0.10	-0.07	-0.05	-0.03	-0.01
	TB-450-C2	N	108.648	108.648	108.648	108.648	108.648	108.648	108.648	108.648	108.648
		Vy	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052
		Vz	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840	-7.840
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-23.39	-17.52	-11.65	-5.78	0.08	5.95	11.82	17.69	23.56
		Mz	-0.34	-0.30	-0.26	-0.22	-0.18	-0.14	-0.10	-0.06	-0.03
	TB-450-D1	N	68.393	68.393	68.393	68.393	68.393	68.393	68.393	68.393	68.393
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-4.958	-4.958	-4.958	-4.958	-4.958	-4.958	-4.958	-4.958	-4.958
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.85	-11.14	-7.43	-3.72	-0.01	3.70	7.41	11.12	14.83
		Mz	-0.05	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01
	TB-450-D2	N	29.086	29.086	29.086	29.086	29.086	29.086	29.086	29.086	29.086
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-2.111	-2.111	-2.111	-2.111	-2.111	-2.111	-2.111	-2.111	-2.111
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.32	-4.74	-3.16	-1.58	0.00	1.58	3.15	4.73	6.31
		Mz	0.06	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
	TB-450-E1	N	19.728	19.728	19.728	19.728	19.728	19.728	19.728	19.728	19.728
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-1.431	-1.431	-1.431	-1.431	-1.431	-1.431	-1.431	-1.431	-1.431
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.29	-3.22	-2.15	-1.08	0.00	1.07	2.14	3.21	4.28
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-E2	N	9.533	9.533	9.533	9.533	9.533	9.533	9.533	9.533	9.533
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.07	-1.56	-1.04	-0.52	0.00	0.52	1.03	1.55	2.07
		Mz	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N211/N236	Peso próprio	N	-91.258	-90.492	-89.726	-88.960	-88.194	-87.428	-86.662	-85.896	-85.130
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	5.347	5.457	5.566	5.676	5.786	5.896	6.005	6.115	6.225
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.14	14.00	9.77	5.46	1.06	-3.42	-7.99	-12.64	-17.37
		Mz	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.08
	Guarda Corpo	N	-21.397	-21.397	-21.397	-21.397	-21.397	-21.397	-21.397	-21.397	-21.397
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.21	3.97	2.72	1.48	0.23	-1.01	-2.25	-3.50	-4.74
		Mz	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02
	Laje	N	-158.868	-158.868	-158.868	-158.868	-158.868	-158.868	-158.868	-158.868	-158.868
		Vy	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Vz	12.031	12.031	12.031	12.031	12.031	12.031	12.031	12.031	12.031
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.66	29.43	20.20	10.97	1.74	-7.49	-16.73	-25.96	-35.19
		Mz	0.46	0.42	0.39	0.36	0.33	0.30	0.27	0.24	0.21
	Pavimentação	N	-87.174	-87.174	-87.174	-87.174	-87.174	-87.174	-87.174	-87.174	-87.174
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	6.596	6.596	6.596	6.596	6.596	6.596	6.596	6.596	6.596
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.19	16.13	11.07	6.01	0.95	-4.11	-9.17	-14.23	-19.29
		Mz	0.26	0.24	0.22	0.21	0.19	0.17	0.15	0.14	0.12

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
	Recapeamento	N	-39.440	-39.440	-39.440	-39.440	-39.440	-39.440	-39.440	-39.440	-39.440
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	2.986	2.986	2.986	2.986	2.986	2.986	2.986	2.986	2.986
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.60	7.31	5.01	2.72	0.43	-1.86	-4.15	-6.44	-8.73
		Mz	0.12	0.11	0.10	0.09	0.08	0.08	0.07	0.06	0.05
	Vento 0	N	-24.042	-24.015	-23.988	-23.960	-23.933	-23.906	-23.879	-23.852	-23.825
		Vy	3.182	2.518	1.855	1.191	0.528	-0.136	-0.800	-1.463	-2.127
		Vz	2.144	1.955	1.766	1.576	1.387	1.198	1.008	0.819	0.630
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.06	3.48	2.06	0.77	-0.36	-1.35	-2.20	-2.90	-3.46
		Mz	3.64	1.46	-0.22	-1.39	-2.05	-2.20	-1.84	-0.97	0.41
	Vento 180	N	23.806	23.806	23.806	23.806	23.806	23.806	23.806	23.806	23.806
		Vy	-0.562	-0.562	-0.562	-0.562	-0.562	-0.562	-0.562	-0.562	-0.562
		Vz	-1.383	-1.383	-1.383	-1.383	-1.383	-1.383	-1.383	-1.383	-1.383
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.31	-3.25	-2.18	-1.12	-0.06	1.00	2.06	3.12	4.18
		Mz	-4.19	-3.76	-3.33	-2.90	-2.47	-2.04	-1.61	-1.17	-0.74
	Multidão (Passeio)	N	-27.753	-27.753	-27.753	-27.753	-27.753	-27.753	-27.753	-27.753	-27.753
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	2.105	2.105	2.105	2.105	2.105	2.105	2.105	2.105	2.105
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.76	5.15	3.53	1.92	0.30	-1.31	-2.93	-4.54	-6.16
		Mz	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Multidão - TB450	N	-90.682	-90.682	-90.682	-90.682	-90.682	-90.682	-90.682	-90.682	-90.682
		Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vz	6.862	6.862	6.862	6.862	6.862	6.862	6.862	6.862	6.862
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.05	16.79	11.52	6.26	0.99	-4.27	-9.54	-14.80	-20.07
		Mz	0.35	0.33	0.30	0.28	0.25	0.23	0.21	0.18	0.16
	TB-450-A1	N	22.218	22.218	22.218	22.218	22.218	22.218	22.218	22.218	22.218
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-1.423	-1.423	-1.423	-1.423	-1.423	-1.423	-1.423	-1.423	-1.423
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.23	-3.14	-2.05	-0.96	0.14	1.23	2.32	3.41	4.51
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
	TB-450-A2	N	9.403	9.403	9.403	9.403	9.403	9.403	9.403	9.403	9.403
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.79	-1.33	-0.87	-0.41	0.06	0.52	0.98	1.45	1.91

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Mz	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
	TB-450-B1	N	6.684	6.684	6.684	6.684	6.684	6.684	6.684	6.684	6.684
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.54	4.42	3.30	2.18	1.06	-0.06	-1.18	-2.30	-3.42
		Mz	0.06	0.05	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02
	TB-450-B2	N	2.647	2.647	2.647	2.647	2.647	2.647	2.647	2.647	2.647
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	0.628	0.628	0.628	0.628	0.628	0.628	0.628	0.628	0.628
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.38	1.89	1.41	0.93	0.45	-0.03	-0.51	-1.00	-1.48
		Mz	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01
	TB-450-C1	N	-44.815	-44.815	-44.815	-44.815	-44.815	-44.815	-44.815	-44.815	-44.815
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	2.883	2.883	2.883	2.883	2.883	2.883	2.883	2.883	2.883
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.07	6.86	4.65	2.43	0.22	-1.99	-4.20	-6.42	-8.63
		Mz	0.36	0.34	0.32	0.30	0.28	0.26	0.24	0.22	0.19
	TB-450-C2	N	-105.097	-105.097	-105.097	-105.097	-105.097	-105.097	-105.097	-105.097	-105.097
		Vy	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Vz	6.792	6.792	6.792	6.792	6.792	6.792	6.792	6.792	6.792
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.36	16.15	10.94	5.73	0.52	-4.69	-9.90	-15.11	-20.33
		Mz	0.47	0.43	0.40	0.37	0.34	0.31	0.27	0.24	0.21
	TB-450-D1	N	-71.339	-71.339	-71.339	-71.339	-71.339	-71.339	-71.339	-71.339	-71.339
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	4.613	4.613	4.613	4.613	4.613	4.613	4.613	4.613	4.613
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.28	10.74	7.20	3.66	0.12	-3.42	-6.96	-10.50	-14.04
		Mz	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00
	TB-450-D2	N	-30.327	-30.327	-30.327	-30.327	-30.327	-30.327	-30.327	-30.327	-30.327
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	1.961	1.961	1.961	1.961	1.961	1.961	1.961	1.961	1.961
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.07	4.57	3.06	1.56	0.05	-1.45	-2.96	-4.46	-5.97
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-E1	N	-20.649	-20.649	-20.649	-20.649	-20.649	-20.649	-20.649	-20.649	-20.649
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	1.336	1.336	1.336	1.336	1.336	1.336	1.336	1.336	1.336
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.13	3.11	2.08	1.06	0.03	-0.99	-2.02	-3.04	-4.07

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-9.942	-9.942	-9.942	-9.942	-9.942	-9.942	-9.942	-9.942	-9.942
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.99	1.50	1.01	0.51	0.02	-0.48	-0.97	-1.47	-1.96
		Mz	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N212/N235	Peso próprio	N	66.093	66.839	67.586	68.333	69.080	69.826	70.573	71.320	72.067
		Vy	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313
		Vz	-4.784	-4.674	-4.564	-4.455	-4.345	-4.235	-4.126	-4.016	-3.906
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.86	-9.32	-5.86	-2.48	0.81	4.02	7.15	10.19	13.16
		Mz	-1.84	-1.61	-1.38	-1.14	-0.91	-0.67	-0.44	-0.20	0.03
	Guarda Corpo	N	22.216	22.216	22.216	22.216	22.216	22.216	22.216	22.216	22.216
		Vy	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077
		Vz	-1.191	-1.191	-1.191	-1.191	-1.191	-1.191	-1.191	-1.191	-1.191
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.40	-2.51	-1.62	-0.73	0.16	1.06	1.95	2.84	3.73
		Mz	-0.45	-0.40	-0.34	-0.28	-0.22	-0.17	-0.11	-0.05	0.01
	Laje	N	165.039	165.039	165.039	165.039	165.039	165.039	165.039	165.039	165.039
		Vy	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839
		Vz	-8.854	-8.854	-8.854	-8.854	-8.854	-8.854	-8.854	-8.854	-8.854
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-25.31	-18.68	-12.05	-5.43	1.20	7.82	14.45	21.08	27.70
		Mz	-4.95	-4.32	-3.70	-3.07	-2.44	-1.81	-1.19	-0.56	0.07
	Pavimentação	N	90.542	90.542	90.542	90.542	90.542	90.542	90.542	90.542	90.542
		Vy	-0.476	-0.476	-0.476	-0.476	-0.476	-0.476	-0.476	-0.476	-0.476
		Vz	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.90	-10.26	-6.62	-2.98	0.65	4.29	7.93	11.57	15.20
		Mz	-2.81	-2.45	-2.10	-1.74	-1.39	-1.03	-0.67	-0.32	0.04
	Recapeamento	N	40.971	40.971	40.971	40.971	40.971	40.971	40.971	40.971	40.971
		Vy	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213
		Vz	-2.198	-2.198	-2.198	-2.198	-2.198	-2.198	-2.198	-2.198	-2.198
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		My	-6.28	-4.64	-2.99	-1.35	0.30	1.94	3.59	5.23	6.88
		Mz	-1.26	-1.10	-0.94	-0.78	-0.62	-0.46	-0.30	-0.14	0.02
	Vento 0	N	23.693	23.666	23.639	23.612	23.584	23.557	23.530	23.503	23.476
		Vy	-7.767	-7.119	-6.472	-5.825	-5.178	-4.531	-3.883	-3.236	-2.589
		Vz	-2.529	-2.344	-2.160	-1.975	-1.790	-1.606	-1.421	-1.237	-1.052
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.42	-4.60	-2.91	-1.36	0.05	1.32	2.45	3.44	4.30
		Mz	-29.66	-24.09	-19.00	-14.40	-10.28	-6.65	-3.50	-0.84	1.34
	Vento 180	N	-23.466	-23.466	-23.466	-23.466	-23.466	-23.466	-23.466	-23.466	-23.466
		Vy	5.025	5.025	5.025	5.025	5.025	5.025	5.025	5.025	5.025
		Vz	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.63	4.31	2.98	1.66	0.34	-0.98	-2.31	-3.63	-4.95
		Mz	29.23	25.47	21.71	17.94	14.18	10.42	6.66	2.90	-0.86
	Multidão (Passeio)	N	28.797	28.797	28.797	28.797	28.797	28.797	28.797	28.797	28.797
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	-1.542	-1.542	-1.542	-1.542	-1.542	-1.542	-1.542	-1.542	-1.542
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.40	-3.24	-2.09	-0.94	0.22	1.37	2.53	3.68	4.83
		Mz	-0.25	-0.22	-0.19	-0.16	-0.12	-0.09	-0.06	-0.03	0.00
	Multidão - TB450	N	94.248	94.248	94.248	94.248	94.248	94.248	94.248	94.248	94.248
		Vy	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628
		Vz	-5.061	-5.061	-5.061	-5.061	-5.061	-5.061	-5.061	-5.061	-5.061
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.48	-10.69	-6.90	-3.12	0.67	4.46	8.24	12.03	15.82
		Mz	-3.71	-3.24	-2.77	-2.30	-1.83	-1.36	-0.89	-0.42	0.05
	TB-450-A1	N	-22.704	-22.704	-22.704	-22.704	-22.704	-22.704	-22.704	-22.704	-22.704
		Vy	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062	-0.062
		Vz	1.740	1.740	1.740	1.740	1.740	1.740	1.740	1.740	1.740
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.25	3.95	2.65	1.34	0.04	-1.26	-2.57	-3.87	-5.17
		Mz	-0.36	-0.32	-0.27	-0.22	-0.18	-0.13	-0.08	-0.04	0.01
	TB-450-A2	N	-9.609	-9.609	-9.609	-9.609	-9.609	-9.609	-9.609	-9.609	-9.609
		Vy	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
		Vz	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.22	1.67	1.12	0.57	0.01	-0.54	-1.09	-1.64	-2.19
		Mz	-0.33	-0.29	-0.25	-0.20	-0.16	-0.12	-0.07	-0.03	0.01
	TB-450-B1	N	1.636	1.636	1.636	1.636	1.636	1.636	1.636	1.636	1.636

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.97	3.96	2.95	1.94	0.93	-0.08	-1.09	-2.10	-3.11
		Mz	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00	-0.01
	TB-450-B2	N	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.07	1.65	1.23	0.81	0.39	-0.03	-0.45	-0.87	-1.29
		Mz	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00	0.01
	TB-450-C1	N	44.549	44.549	44.549	44.549	44.549	44.549	44.549	44.549	44.549
		Vy	-0.762	-0.762	-0.762	-0.762	-0.762	-0.762	-0.762	-0.762	-0.762
		Vz	-2.623	-2.623	-2.623	-2.623	-2.623	-2.623	-2.623	-2.623	-2.623
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.74	-5.77	-3.81	-1.85	0.12	2.08	4.04	6.00	7.97
		Mz	-4.48	-3.91	-3.34	-2.77	-2.20	-1.63	-1.06	-0.49	0.08
	TB-450-C2	N	104.265	104.265	104.265	104.265	104.265	104.265	104.265	104.265	104.265
		Vy	-0.815	-0.815	-0.815	-0.815	-0.815	-0.815	-0.815	-0.815	-0.815
		Vz	-6.089	-6.089	-6.089	-6.089	-6.089	-6.089	-6.089	-6.089	-6.089
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.87	-13.31	-8.75	-4.20	0.36	4.92	9.47	14.03	18.59
		Mz	-4.82	-4.21	-3.60	-2.99	-2.38	-1.77	-1.16	-0.55	0.06
	TB-450-D1	N	70.993	70.993	70.993	70.993	70.993	70.993	70.993	70.993	70.993
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-4.896	-4.896	-4.896	-4.896	-4.896	-4.896	-4.896	-4.896	-4.896
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.67	-11.01	-7.34	-3.68	-0.02	3.65	7.31	10.98	14.64
		Mz	-0.03	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	-0.01	0.00
	TB-450-D2	N	30.192	30.192	30.192	30.192	30.192	30.192	30.192	30.192	30.192
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-2.080	-2.080	-2.080	-2.080	-2.080	-2.080	-2.080	-2.080	-2.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.23	-4.68	-3.12	-1.56	-0.01	1.55	3.11	4.66	6.22
		Mz	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
	TB-450-E1	N	20.643	20.643	20.643	20.643	20.643	20.643	20.643	20.643	20.643
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	-1.428	-1.428	-1.428	-1.428	-1.428	-1.428	-1.428	-1.428	-1.428
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		My	-4.29	-3.22	-2.15	-1.08	-0.01	1.06	2.13	3.20	4.26
		Mz	0.13	0.12	0.10	0.08	0.06	0.05	0.03	0.01	-0.01
	TB-450-E2	N	9.950	9.950	9.950	9.950	9.950	9.950	9.950	9.950	9.950
		Vy	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Vz	-0.686	-0.686	-0.686	-0.686	-0.686	-0.686	-0.686	-0.686	-0.686
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.05	-1.54	-1.03	-0.51	0.00	0.51	1.02	1.54	2.05
		Mz	0.31	0.27	0.23	0.19	0.15	0.11	0.07	0.03	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
N213/N234	Peso próprio	N	-21.170	-20.401	-19.631	-18.862	-18.093	-17.324	-16.554	-15.785	-15.016
		Vy	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296
		Vz	1.860	1.970	2.080	2.189	2.299	2.408	2.518	2.628	2.737
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.49	6.02	4.46	2.81	1.08	-0.73	-2.63	-4.61	-6.68
		Mz	1.79	1.57	1.34	1.11	0.88	0.65	0.43	0.20	-0.03
	Guarda Corpo	N	-1.622	-1.622	-1.622	-1.622	-1.622	-1.622	-1.622	-1.622	-1.622
		Vy	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
		Vz	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.14	1.66	1.18	0.71	0.23	-0.25	-0.73	-1.21	-1.69
		Mz	0.44	0.38	0.33	0.27	0.21	0.16	0.10	0.05	-0.01
	Laje	N	-11.428	-11.428	-11.428	-11.428	-11.428	-11.428	-11.428	-11.428	-11.428
		Vy	0.793	0.793	0.793	0.793	0.793	0.793	0.793	0.793	0.793
		Vz	4.623	4.623	4.623	4.623	4.623	4.623	4.623	4.623	4.623
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.95	12.39	8.82	5.26	1.70	-1.86	-5.43	-8.99	-12.55
		Mz	4.80	4.19	3.58	2.97	2.35	1.74	1.13	0.52	-0.09
	Pavimentação	N	-6.339	-6.339	-6.339	-6.339	-6.339	-6.339	-6.339	-6.339	-6.339
		Vy	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450
		Vz	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541	2.541
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.76	6.81	4.85	2.89	0.93	-1.02	-2.98	-4.94	-6.90
		Mz	2.72	2.38	2.03	1.68	1.34	0.99	0.64	0.30	-0.05
	Recapeamento	N	-2.833	-2.833	-2.833	-2.833	-2.833	-2.833	-2.833	-2.833	-2.833
		Vy	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202
		Vz	1.148	1.148	1.148	1.148	1.148	1.148	1.148	1.148	1.148

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.96	3.08	2.19	1.31	0.42	-0.46	-1.35	-2.23	-3.12
		Mz	1.22	1.07	0.91	0.75	0.60	0.44	0.29	0.13	-0.02
	Vento 0	N	-5.833	-5.806	-5.779	-5.752	-5.725	-5.698	-5.671	-5.644	-5.616
		Vy	7.586	6.919	6.253	5.587	4.920	4.254	3.588	2.921	2.255
		Vz	2.068	1.878	1.688	1.498	1.308	1.118	0.927	0.737	0.547
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	5.35	3.83	2.46	1.23	0.15	-0.78	-1.57	-2.21	-2.71
		Mz	28.10	22.51	17.44	12.88	8.83	5.29	2.27	-0.23	-2.23
	Vento 180	N	5.907	5.907	5.907	5.907	5.907	5.907	5.907	5.907	5.907
		Vy	-4.741	-4.741	-4.741	-4.741	-4.741	-4.741	-4.741	-4.741	-4.741
		Vz	-1.286	-1.286	-1.286	-1.286	-1.286	-1.286	-1.286	-1.286	-1.286
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-4.53	-3.53	-2.54	-1.55	-0.56	0.43	1.42	2.41	3.40
		Mz	-27.50	-23.84	-20.19	-16.54	-12.88	-9.23	-5.58	-1.92	1.73
	Multidão (Passeio)	N	-2.229	-2.229	-2.229	-2.229	-2.229	-2.229	-2.229	-2.229	-2.229
		Vy	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Vz	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.77	2.15	1.53	0.91	0.29	-0.33	-0.95	-1.57	-2.19
		Mz	0.24	0.21	0.18	0.15	0.12	0.09	0.06	0.03	0.00
	Multidão - TB450	N	-6.212	-6.212	-6.212	-6.212	-6.212	-6.212	-6.212	-6.212	-6.212
		Vy	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
		Vz	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.13	7.09	5.05	3.02	0.98	-1.06	-3.10	-5.13	-7.17
		Mz	3.60	3.14	2.68	2.22	1.77	1.31	0.85	0.39	-0.07
	TB-450-A1	N	28.524	28.524	28.524	28.524	28.524	28.524	28.524	28.524	28.524
		Vy	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
		Vz	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.11	-3.82	-2.53	-1.24	0.06	1.35	2.64	3.94	5.23
		Mz	0.33	0.28	0.24	0.20	0.15	0.11	0.06	0.02	-0.03
	TB-450-A2	N	12.156	12.156	12.156	12.156	12.156	12.156	12.156	12.156	12.156
		Vy	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
		Vz	-0.711	-0.711	-0.711	-0.711	-0.711	-0.711	-0.711	-0.711	-0.711
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.16	-1.62	-1.07	-0.52	0.03	0.57	1.12	1.67	2.22
		Mz	0.32	0.28	0.24	0.19	0.15	0.11	0.07	0.02	-0.02

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
	TB-450-B1	N	70.038	70.038	70.038	70.038	70.038	70.038	70.038	70.038	70.038
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	-3.117	-3.117	-3.117	-3.117	-3.117	-3.117	-3.117	-3.117	-3.117
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.08	-6.68	-4.28	-1.87	0.53	2.93	5.33	7.73	10.13
		Mz	-0.10	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.02	0.00
	TB-450-B2	N	29.649	29.649	29.649	29.649	29.649	29.649	29.649	29.649	29.649
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-1.316	-1.316	-1.316	-1.316	-1.316	-1.316	-1.316	-1.316	-1.316
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.83	-2.82	-1.80	-0.79	0.23	1.24	2.25	3.27	4.28
		Mz	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.00
	TB-450-C1	N	-11.634	-11.634	-11.634	-11.634	-11.634	-11.634	-11.634	-11.634	-11.634
		Vy	0.722	0.722	0.722	0.722	0.722	0.722	0.722	0.722	0.722
		Vz	1.626	1.626	1.626	1.626	1.626	1.626	1.626	1.626	1.626
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.49	4.24	2.99	1.73	0.48	-0.77	-2.02	-3.28	-4.53
		Mz	4.37	3.81	3.25	2.70	2.14	1.58	1.03	0.47	-0.09
	TB-450-C2	N	-28.704	-28.704	-28.704	-28.704	-28.704	-28.704	-28.704	-28.704	-28.704
		Vy	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774
		Vz	3.760	3.760	3.760	3.760	3.760	3.760	3.760	3.760	3.760
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.65	9.76	6.86	3.96	1.06	-1.83	-4.73	-7.63	-10.52
		Mz	4.70	4.10	3.50	2.91	2.31	1.71	1.12	0.52	-0.08
	TB-450-D1	N	-61.197	-61.197	-61.197	-61.197	-61.197	-61.197	-61.197	-61.197	-61.197
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	4.481	4.481	4.481	4.481	4.481	4.481	4.481	4.481	4.481
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.96	10.50	7.05	3.60	0.14	-3.31	-6.76	-10.21	-13.67
		Mz	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00
	TB-450-D2	N	-25.831	-25.831	-25.831	-25.831	-25.831	-25.831	-25.831	-25.831	-25.831
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	1.897	1.897	1.897	1.897	1.897	1.897	1.897	1.897	1.897
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.91	4.45	2.99	1.53	0.06	-1.40	-2.86	-4.32	-5.78
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-E1	N	-18.223	-18.223	-18.223	-18.223	-18.223	-18.223	-18.223	-18.223	-18.223
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	1.332	1.332	1.332	1.332	1.332	1.332	1.332	1.332	1.332

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.14	3.11	2.08	1.06	0.03	-1.00	-2.02	-3.05	-4.08
		Mz	-0.12	-0.11	-0.09	-0.07	-0.06	-0.04	-0.02	-0.01	0.01
	TB-450-E2	N	-8.800	-8.800	-8.800	-8.800	-8.800	-8.800	-8.800	-8.800	-8.800
		Vy	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052
		Vz	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.98	1.49	1.00	0.50	0.01	-0.48	-0.97	-1.47	-1.96
		Mz	-0.30	-0.26	-0.22	-0.18	-0.14	-0.10	-0.06	-0.02	0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
N214/N233	Peso próprio	N	18.695	19.472	20.248	21.024	21.801	22.577	23.353	24.130	24.906
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-1.084	-0.974	-0.865	-0.755	-0.646	-0.536	-0.427	-0.317	-0.208
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.85	-1.05	-0.34	0.29	0.84	1.30	1.67	1.96	2.17
		Mz	-0.06	-0.06	-0.07	-0.07	-0.07	-0.08	-0.08	-0.09	-0.09
	Guarda Corpo	N	8.685	8.685	8.685	8.685	8.685	8.685	8.685	8.685	8.685
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.38	-0.24	-0.11	0.02	0.16	0.29	0.43	0.56	0.69
		Mz	-0.05	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03	-0.03	-0.02
	Laje	N	63.759	63.759	63.759	63.759	63.759	63.759	63.759	63.759	63.759
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	-1.285	-1.285	-1.285	-1.285	-1.285	-1.285	-1.285	-1.285	-1.285
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.83	-1.83	-0.83	0.17	1.17	2.17	3.16	4.16	5.16
		Mz	-0.55	-0.51	-0.48	-0.44	-0.40	-0.36	-0.33	-0.29	-0.25
	Pavimentação	N	34.995	34.995	34.995	34.995	34.995	34.995	34.995	34.995	34.995
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.56	-1.01	-0.46	0.09	0.64	1.19	1.74	2.29	2.84
		Mz	-0.31	-0.29	-0.27	-0.25	-0.23	-0.21	-0.18	-0.16	-0.14
	Recapeamento	N	15.818	15.818	15.818	15.818	15.818	15.818	15.818	15.818	15.818
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
		Vz	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.70	-0.46	-0.21	0.04	0.29	0.54	0.79	1.03	1.28
		Mz	-0.14	-0.13	-0.12	-0.11	-0.10	-0.09	-0.08	-0.07	-0.06
	Vento 0	N	11.879	11.852	11.825	11.798	11.771	11.744	11.716	11.689	11.662
		Vy	-2.691	-2.019	-1.347	-0.674	-0.002	0.670	1.343	2.015	2.687
		Vz	-1.307	-1.115	-0.923	-0.731	-0.540	-0.348	-0.156	0.036	0.228
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-2.29	-1.34	-0.55	0.09	0.58	0.93	1.13	1.17	1.07
		Mz	-0.07	1.76	3.07	3.86	4.12	3.86	3.08	1.77	-0.05
	Vento 180	N	-11.960	-11.960	-11.960	-11.960	-11.960	-11.960	-11.960	-11.960	-11.960
		Vy	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vz	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538	0.538
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	1.52	1.11	0.69	0.27	-0.15	-0.57	-0.98	-1.40	-1.82
		Mz	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47	0.45
	Multidão (Passeio)	N	11.416	11.416	11.416	11.416	11.416	11.416	11.416	11.416	11.416
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.48	-0.31	-0.14	0.04	0.21	0.38	0.55	0.72	0.89
		Mz	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.01
	Multidão - TB450	N	36.007	36.007	36.007	36.007	36.007	36.007	36.007	36.007	36.007
		Vy	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Vz	-0.739	-0.739	-0.739	-0.739	-0.739	-0.739	-0.739	-0.739	-0.739
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.64	-1.06	-0.49	0.09	0.66	1.24	1.81	2.39	2.96
		Mz	-0.41	-0.38	-0.35	-0.32	-0.30	-0.27	-0.24	-0.21	-0.18
	TB-450-A1	N	-22.896	-22.896	-22.896	-22.896	-22.896	-22.896	-22.896	-22.896	-22.896
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.20	3.90	2.61	1.31	0.02	-1.27	-2.57	-3.86	-5.16
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A2	N	-9.728	-9.728	-9.728	-9.728	-9.728	-9.728	-9.728	-9.728	-9.728
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.709	0.709	0.709	0.709	0.709	0.709	0.709	0.709	0.709
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.21	1.66	1.11	0.56	0.01	-0.54	-1.09	-1.65	-2.20

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-B1	N	-55.212	-55.212	-55.212	-55.212	-55.212	-55.212	-55.212	-55.212	-55.212
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	4.081	4.081	4.081	4.081	4.081	4.081	4.081	4.081	4.081
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.04	9.87	6.69	3.52	0.35	-2.82	-6.00	-9.17	-12.34
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-23.354	-23.354	-23.354	-23.354	-23.354	-23.354	-23.354	-23.354	-23.354
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	1.728	1.728	1.728	1.728	1.728	1.728	1.728	1.728	1.728
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.52	4.18	2.84	1.49	0.15	-1.19	-2.54	-3.88	-5.22
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-C1	N	21.419	21.419	21.419	21.419	21.419	21.419	21.419	21.419	21.419
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	-0.555	-0.555	-0.555	-0.555	-0.555	-0.555	-0.555	-0.555	-0.555
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.37	-0.94	-0.51	-0.07	0.36	0.79	1.22	1.65	2.08
		Mz	-0.46	-0.43	-0.40	-0.37	-0.34	-0.30	-0.27	-0.24	-0.21
	TB-450-C2	N	52.044	52.044	52.044	52.044	52.044	52.044	52.044	52.044	52.044
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	-1.248	-1.248	-1.248	-1.248	-1.248	-1.248	-1.248	-1.248	-1.248
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.02	-2.05	-1.08	-0.11	0.86	1.83	2.80	3.77	4.74
		Mz	-0.53	-0.49	-0.45	-0.42	-0.38	-0.35	-0.31	-0.28	-0.24
	TB-450-D1	N	70.169	70.169	70.169	70.169	70.169	70.169	70.169	70.169	70.169
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-4.332	-4.332	-4.332	-4.332	-4.332	-4.332	-4.332	-4.332	-4.332
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.42	-10.06	-6.69	-3.32	0.05	3.42	6.78	10.15	13.52
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	29.653	29.653	29.653	29.653	29.653	29.653	29.653	29.653	29.653
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830	-1.830
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.67	-4.25	-2.82	-1.40	0.02	1.44	2.87	4.29	5.71
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-E1	N	21.450	21.450	21.450	21.450	21.450	21.450	21.450	21.450	21.450
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
		Vz	-1.341	-1.341	-1.341	-1.341	-1.341	-1.341	-1.341	-1.341	-1.341
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.18	-3.14	-2.10	-1.06	-0.01	1.03	2.07	3.11	4.16
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	10.343	10.343	10.343	10.343	10.343	10.343	10.343	10.343	10.343
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.648	-0.648	-0.648	-0.648	-0.648	-0.648	-0.648	-0.648	-0.648
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.02	-1.52	-1.01	-0.51	-0.01	0.50	1.00	1.50	2.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
N215/N232	Peso próprio	N	18.196	18.969	19.742	20.514	21.287	22.059	22.832	23.604	24.377
		Vy	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
		Vz	-1.056	-0.947	-0.837	-0.728	-0.618	-0.509	-0.399	-0.290	-0.180
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.78	-1.01	-0.32	0.29	0.81	1.25	1.60	1.86	2.05
		Mz	0.30	0.13	-0.04	-0.21	-0.39	-0.56	-0.73	-0.90	-1.07
	Guarda Corpo	N	8.442	8.442	8.442	8.442	8.442	8.442	8.442	8.442	8.442
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.33	-0.21	-0.09	0.03	0.15	0.28	0.40	0.52	0.64
		Mz	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.02
	Laje	N	61.008	61.008	61.008	61.008	61.008	61.008	61.008	61.008	61.008
		Vy	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
		Vz	-1.121	-1.121	-1.121	-1.121	-1.121	-1.121	-1.121	-1.121	-1.121
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.33	-1.47	-0.60	0.27	1.14	2.00	2.87	3.74	4.61
		Mz	0.61	0.56	0.50	0.45	0.39	0.34	0.28	0.23	0.17
	Pavimentação	N	33.428	33.428	33.428	33.428	33.428	33.428	33.428	33.428	33.428
		Vy	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Vz	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.28	-0.80	-0.33	0.15	0.62	1.10	1.57	2.05	2.52
		Mz	0.35	0.32	0.28	0.25	0.22	0.19	0.16	0.13	0.09
	Recapeamento	N	15.118	15.118	15.118	15.118	15.118	15.118	15.118	15.118	15.118

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.58	-0.36	-0.15	0.07	0.28	0.50	0.71	0.93	1.14
		Mz	0.16	0.14	0.13	0.11	0.10	0.09	0.07	0.06	0.04
	Vento 0	N	-3.983	-3.956	-3.929	-3.901	-3.874	-3.847	-3.820	-3.793	-3.766
		Vy	6.253	5.584	4.915	4.246	3.576	2.907	2.238	1.569	0.900
		Vz	1.201	1.010	0.819	0.628	0.437	0.246	0.055	-0.136	-0.327
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	2.09	1.23	0.53	-0.03	-0.45	-0.71	-0.83	-0.80	-0.62
		Mz	4.22	-0.36	-4.42	-7.97	-10.99	-13.50	-15.49	-16.97	-17.92
	Vento 180	N	3.622	3.622	3.622	3.622	3.622	3.622	3.622	3.622	3.622
		Vy	-3.726	-3.726	-3.726	-3.726	-3.726	-3.726	-3.726	-3.726	-3.726
		Vz	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-1.33	-0.99	-0.65	-0.32	0.02	0.36	0.69	1.03	1.37
		Mz	-4.92	-2.04	0.84	3.72	6.61	9.49	12.37	15.25	18.14
	Multidão (Passeio)	N	11.300	11.300	11.300	11.300	11.300	11.300	11.300	11.300	11.300
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.47	-0.30	-0.13	0.03	0.20	0.37	0.54	0.70	0.87
		Mz	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
	Multidão - TB450	N	33.913	33.913	33.913	33.913	33.913	33.913	33.913	33.913	33.913
		Vy	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
		Vz	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.25	-0.77	-0.30	0.17	0.65	1.12	1.59	2.06	2.54
		Mz	0.46	0.41	0.37	0.32	0.28	0.24	0.19	0.15	0.10
	TB-450-A1	N	25.150	25.150	25.150	25.150	25.150	25.150	25.150	25.150	25.150
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.98	-3.74	-2.50	-1.26	-0.02	1.22	2.46	3.70	4.94
		Mz	0.05	0.02	-0.01	-0.05	-0.08	-0.11	-0.15	-0.18	-0.21
	TB-450-A2	N	10.745	10.745	10.745	10.745	10.745	10.745	10.745	10.745	10.745
		Vy	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Vz	-0.683	-0.683	-0.683	-0.683	-0.683	-0.683	-0.683	-0.683	-0.683
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
		My	-2.12	-1.60	-1.07	-0.54	-0.01	0.52	1.05	1.58	2.11
		Mz	0.06	0.03	0.00	-0.03	-0.07	-0.10	-0.13	-0.16	-0.19
	TB-450-B1	N	69.355	69.355	69.355	69.355	69.355	69.355	69.355	69.355	69.355
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-4.369	-4.369	-4.369	-4.369	-4.369	-4.369	-4.369	-4.369	-4.369
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.48	-10.10	-6.72	-3.34	0.04	3.42	6.80	10.18	13.56
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-B2	N	29.449	29.449	29.449	29.449	29.449	29.449	29.449	29.449	29.449
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-1.855	-1.855	-1.855	-1.855	-1.855	-1.855	-1.855	-1.855	-1.855
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.72	-4.29	-2.85	-1.42	0.02	1.45	2.89	4.32	5.76
		Mz	-0.01	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07
	TB-450-C1	N	18.543	18.543	18.543	18.543	18.543	18.543	18.543	18.543	18.543
		Vy	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116
		Vz	-0.376	-0.376	-0.376	-0.376	-0.376	-0.376	-0.376	-0.376	-0.376
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.81	-0.52	-0.22	0.07	0.36	0.65	0.94	1.23	1.52
		Mz	0.60	0.51	0.42	0.33	0.24	0.15	0.06	-0.03	-0.12
	TB-450-C2	N	48.985	48.985	48.985	48.985	48.985	48.985	48.985	48.985	48.985
		Vy	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
		Vz	-1.065	-1.065	-1.065	-1.065	-1.065	-1.065	-1.065	-1.065	-1.065
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.44	-1.61	-0.79	0.04	0.86	1.68	2.51	3.33	4.16
		Mz	0.59	0.54	0.49	0.44	0.39	0.34	0.30	0.25	0.20
	TB-450-D1	N	-55.074	-55.074	-55.074	-55.074	-55.074	-55.074	-55.074	-55.074	-55.074
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	4.164	4.164	4.164	4.164	4.164	4.164	4.164	4.164	4.164
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.23	10.00	6.78	3.56	0.34	-2.88	-6.11	-9.33	-12.55
		Mz	-0.01	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.06
	TB-450-D2	N	-23.222	-23.222	-23.222	-23.222	-23.222	-23.222	-23.222	-23.222	-23.222
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.58	4.22	2.86	1.50	0.14	-1.21	-2.57	-3.93	-5.29
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
	TB-450-E1	N	-19.332	-19.332	-19.332	-19.332	-19.332	-19.332	-19.332	-19.332	-19.332

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
		Vy	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		Vz	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.45	3.34	2.23	1.12	0.01	-1.10	-2.21	-3.32	-4.42
		Mz	-0.03	-0.01	0.01	0.03	0.05	0.06	0.08	0.10	0.12
	TB-450-E2	N	-9.348	-9.348	-9.348	-9.348	-9.348	-9.348	-9.348	-9.348	-9.348
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	0.692	0.692	0.692	0.692	0.692	0.692	0.692	0.692	0.692
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.15	1.61	1.08	0.54	0.01	-0.53	-1.06	-1.60	-2.14
		Mz	-0.06	-0.03	0.01	0.04	0.08	0.11	0.15	0.19	0.22

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N1/N158	Peso próprio	N	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098
		Vy	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252
		Vz	-11.922	-11.535	-11.148	-10.761	-10.374	-9.987	-9.600	-9.213	-8.826
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.20	4.33	6.38	8.36	10.27	12.11	13.87	15.56
		Mz	0.00	0.05	0.09	0.14	0.19	0.24	0.28	0.33	0.38
	Guarda Corpo	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-7.632	-7.632	-7.632	-7.632	-7.632	-7.632	-7.632	-7.632	-7.632
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	1.43	2.86	4.29	5.72	7.16	8.59	10.02	11.45
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-56.697	-54.841	-52.984	-51.127	-49.270	-47.413	-45.556	-43.699	-41.842
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	10.46	20.57	30.33	39.74	48.80	57.52	65.89	73.90
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-30.938	-29.849	-28.760	-27.670	-26.581	-25.492	-24.402	-23.313	-22.223
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.00	5.70	11.19	16.48	21.57	26.45	31.13	35.60	39.87
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-14.063	-13.568	-13.073	-12.577	-12.082	-11.587	-11.092	-10.597	-10.102
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.59	5.09	7.49	9.80	12.02	14.15	16.18	18.12
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-9.903	-8.666	-7.428	-6.190	-4.952	-3.714	-2.476	-1.238	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	1.74	3.25	4.53	5.57	6.38	6.96	7.31	7.43
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-32.325	-32.325	-32.325	-32.325	-32.325	-32.325	-32.325	-32.325	-32.325
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	6.06	12.12	18.18	24.24	30.30	36.37	42.43	48.49
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-25.879	-25.879	-25.879	-25.879	-25.879	-25.879	-25.879	-25.879	-25.879
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.85	9.70	14.56	19.41	24.26	29.11	33.97	38.82

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-61.272	-61.272	-61.272	-61.272	-61.272	-61.272	-61.272	-61.272	-61.272
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.49	22.98	34.47	45.95	57.44	68.93	80.42	91.91
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
	TB-450-D2	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N158/N159	Peso próprio	N	-0.098	-0.098	-0.098
		Vy	-0.252	-0.252	-0.252
		Vz	-8.826	-8.413	-8.000
		Mt	0.00	0.00	0.00
		My	15.56	17.29	18.93
		Mz	0.38	0.43	0.48
	Guarda Corpo	N	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000
		Vz	-7.632	-3.816	0.000
		Mt	0.00	0.00	0.00
		My	11.45	12.59	12.97
		Mz	0.00	0.00	0.00
	Laje	N	-0.037	-0.037	-0.037

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vy	0.000	0.000	0.000
		Vz	-41.842	-39.862	-37.881
		Mt	0.00	0.00	0.00
		My	73.90	82.08	89.85
		Mz	0.00	0.00	0.00
	Pavimentação	N	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000
		Vz	-22.223	-22.223	-22.223
		Mt	0.00	0.00	0.00
		My	39.87	44.32	48.76
		Mz	0.00	0.00	0.00
	Recapeamento	N	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000
		Vz	-10.102	-10.102	-10.102
		Mt	0.00	0.00	0.00
		My	18.12	20.14	22.16
		Mz	0.00	0.00	0.00
	Vento 0	N	1.603	1.603	1.603
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	Vento 180	N	1.593	1.593	1.593
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	7.43	7.43	7.43

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	-0.021	-0.021	-0.021
		Vy	0.000	0.000	0.000
		Vz	-32.325	-32.325	-32.325
		Mt	0.00	0.00	0.00
		My	48.49	54.95	61.42
		Mz	0.00	0.00	0.00
	TB-450-A1	N	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000
		Vz	-25.879	-25.879	-25.879
		Mt	0.00	0.00	0.00
		My	38.82	43.99	49.17
		Mz	0.00	0.00	0.00
	TB-450-A2	N	0.926	0.926	0.926
		Vy	0.000	0.000	0.000
		Vz	-61.272	-61.272	-61.272
		Mt	0.00	0.00	0.00
		My	91.91	104.16	116.42
		Mz	0.00	0.00	0.00
	TB-450-B1	N	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-B2	N	0.005	0.005	0.005
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-C1	N	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-C2	N	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-D1	N	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-D2	N	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-E1	N	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-E2	N	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N159/N160	Peso próprio	N	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098
		Vy	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252
		Vz	-8.000	-7.116	-6.231	-5.789	-4.904	-4.020	-3.135	-2.693	-1.808
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.93	22.17	25.03	26.31	28.61	30.52	32.05	32.68	33.64
		Mz	0.48	0.59	0.69	0.75	0.86	0.96	1.07	1.13	1.23
	Guarda Corpo	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.97	12.97	12.97	12.97	12.97	12.97	12.97	12.97	12.97
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-37.881	-33.636	-29.392	-27.270	-23.026	-18.781	-14.537	-12.415	-8.170
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	89.85	105.17	118.68	124.75	135.53	144.49	151.63	154.51	158.93
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-22.223	-19.733	-17.243	-15.998	-13.508	-11.018	-8.528	-7.283	-4.793
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.76	57.75	65.68	69.24	75.56	80.82	85.00	86.70	89.29
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-10.102	-8.970	-7.838	-7.272	-6.140	-5.008	-3.877	-3.311	-2.179
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.16	26.25	29.85	31.47	34.35	36.73	38.64	39.41	40.58
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-32.325	-28.703	-25.081	-23.270	-19.649	-16.027	-12.405	-10.594	-6.972
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	61.42	74.49	86.02	91.20	100.40	108.04	114.13	116.60	120.36
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-25.879	-25.879	-25.879	-25.879	-25.879	-25.879	-25.879	-25.879	-25.879
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.17	60.26	71.35	76.90	87.99	99.08	110.17	115.72	126.81
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-61.272	-48.822	-36.372	-30.147	-17.697	-5.246	7.204	13.429	25.879
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	116.42	140.01	158.26	165.39	175.64	180.56	180.14	177.93	169.51
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
	TB-450-C1	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N160/N77	Peso próprio	N	-0.098	-0.098	-0.098	-0.098	-0.098
		Vy	-0.252	-0.252	-0.252	-0.252	-0.252
		Vz	-1.808	-1.383	-0.957	-0.531	-0.105
		Mt	0.00	0.00	0.00	0.00	0.00
		My	33.64	33.97	34.21	34.36	34.43
		Mz	1.23	1.28	1.34	1.39	1.44
	Guarda Corpo	N	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	12.97	12.97	12.97	12.97	12.97
		Mz	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.037	-0.037	-0.037	-0.037	-0.037
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-8.170	-6.128	-4.085	-2.043	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	158.93	160.40	161.45	162.09	162.30
		Mz	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.020	-0.020	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-4.793	-3.595	-2.397	-1.198	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	89.29	90.15	90.77	91.14	91.26
		Mz	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-2.179	-1.634	-1.089	-0.545	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	40.58	40.98	41.26	41.43	41.48
		Mz	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.603	1.603	1.603	1.603	1.603
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.593	1.593	1.593	1.593	1.593
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	7.43	7.43	7.43	7.43	7.43
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.021	-0.021	-0.021	-0.021	-0.021
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-6.972	-5.229	-3.486	-1.743	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	120.36	121.62	122.52	123.06	123.24
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.948	-0.948	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-25.879	-25.879	-25.879	-25.879	-25.879
		Mt	0.00	0.00	0.00	0.00	0.00
		My	126.81	132.14	137.48	142.82	148.16
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.926	0.926	0.926	0.926	0.926
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	25.879	25.879	25.879	25.879	25.879
		Mt	0.00	0.00	0.00	0.00	0.00
		My	169.51	164.17	158.83	153.49	148.16
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.005	0.005	0.005	0.005	0.005
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N77/N163	Peso próprio	N	0.046	0.046	0.046	0.046	0.046
		Vy	0.247	0.247	0.247	0.247	0.247
		Vz	0.103	0.529	0.955	1.380	1.806
		Mt	0.00	0.00	0.00	0.00	0.00
		My	34.42	34.35	34.20	33.96	33.63
		Mz	1.41	1.36	1.31	1.26	1.21
	Guarda Corpo	N	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	12.97	12.97	12.97	12.97	12.97
		Mz	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.037	-0.037	-0.037	-0.037	-0.037
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	2.043	4.085	6.128	8.170
		Mt	0.00	0.00	0.00	0.00	0.00
		My	162.30	162.09	161.45	160.40	158.93
		Mz	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	Pavimentação	N	-0.020	-0.020	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	1.198	2.397	3.595	4.793
		Mt	0.00	0.00	0.00	0.00	0.00
		My	91.26	91.14	90.77	90.15	89.29
		Mz	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.545	1.089	1.634	2.179
		Mt	0.00	0.00	0.00	0.00	0.00
		My	41.48	41.43	41.26	40.98	40.58
		Mz	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.603	1.603	1.603	1.603	1.603
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.593	1.593	1.593	1.593	1.593
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	7.43	7.43	7.43	7.43	7.43
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.021	-0.021	-0.021	-0.021	-0.021
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	1.743	3.486	5.229	6.972
		Mt	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	123.24	123.06	122.52	121.62	120.36
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.948	-0.948	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-25.879	-25.879	-25.879	-25.879	-25.879
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.16	153.49	158.83	164.17	169.51
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.926	0.926	0.926	0.926	0.926
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	25.879	25.879	25.879	25.879	25.879
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.16	142.82	137.48	132.14	126.81
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.005	0.005	0.005	0.005	0.005
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N163/N162	Peso próprio	N	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vy	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	1.806	2.691	3.575	4.018	4.902	5.787	6.671	7.114	7.998
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	33.63	32.67	31.32	30.51	28.60	26.31	23.64	22.16	18.92
		Mz	1.21	1.10	1.00	0.94	0.84	0.73	0.63	0.57	0.47
	Guarda Corpo	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.97	12.97	12.97	12.97	12.97	12.97	12.97	12.97	12.97
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	8.170	12.415	16.659	18.781	23.026	27.270	31.514	33.636	37.881
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	158.93	154.51	148.28	144.49	135.53	124.75	112.15	105.17	89.85
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	4.793	7.283	9.773	11.018	13.508	15.998	18.488	19.733	22.223
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	89.29	86.70	83.04	80.82	75.56	69.24	61.85	57.75	48.76
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	2.179	3.311	4.442	5.008	6.140	7.272	8.404	8.970	10.102
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	40.58	39.41	37.75	36.73	34.35	31.47	28.11	26.25	22.16
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	6.972	10.594	14.216	16.027	19.649	23.270	26.892	28.703	32.325
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	120.36	116.60	111.28	108.04	100.40	91.20	80.45	74.49	61.42
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-25.879	-13.429	-0.979	5.246	17.697	30.147	42.597	48.822	61.272
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	169.51	177.93	181.02	180.56	175.64	165.39	149.80	140.01	116.42
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	25.879	25.879	25.879	25.879	25.879	25.879	25.879	25.879	25.879
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	126.81	115.72	104.62	99.08	87.99	76.90	65.81	60.26	49.17
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N162/N161	Peso próprio	N	0.046	0.046	0.046
		Vy	0.247	0.247	0.247
		Vz	7.998	8.411	8.824
		Mt	0.00	0.00	0.00
		My	18.92	17.28	15.56
		Mz	0.47	0.42	0.37
	Guarda Corpo	N	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000
		Vz	0.000	3.816	7.632
		Mt	0.00	0.00	0.00
		My	12.97	12.59	11.45
		Mz	0.00	0.00	0.00
	Laje	N	-0.037	-0.037	-0.037
		Vy	0.000	0.000	0.000
		Vz	37.881	39.862	41.842
		Mt	0.00	0.00	0.00
		My	89.85	82.08	73.90
		Mz	0.00	0.00	0.00
	Pavimentação	N	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000
		Vz	22.223	22.223	22.223
		Mt	0.00	0.00	0.00
		My	48.76	44.32	39.87
		Mz	0.00	0.00	0.00
	Recapeamento	N	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000
		Vz	10.102	10.102	10.102
		Mt	0.00	0.00	0.00
		My	22.16	20.14	18.12
		Mz	0.00	0.00	0.00
	Vento 0	N	1.603	1.603	1.603
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	Vento 180	N	1.593	1.593	1.593
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	7.43	7.43	7.43
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	-0.021	-0.021	-0.021
		Vy	0.000	0.000	0.000
		Vz	32.325	32.325	32.325
		Mt	0.00	0.00	0.00
		My	61.42	54.95	48.49
		Mz	0.00	0.00	0.00
	TB-450-A1	N	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000
		Vz	61.272	61.272	61.272
		Mt	0.00	0.00	0.00
		My	116.42	104.16	91.91
		Mz	0.00	0.00	0.00
	TB-450-A2	N	0.926	0.926	0.926
		Vy	0.000	0.000	0.000
		Vz	25.879	25.879	25.879
		Mt	0.00	0.00	0.00
		My	49.17	43.99	38.82
		Mz	0.00	0.00	0.00
	TB-450-B1	N	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-B2	N	0.005	0.005	0.005
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-C1	N	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-C2	N	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-D1	N	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-D2	N	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	TB-450-E1	N	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-E2	N	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N161/N7	Peso próprio	N	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vy	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247
		Vz	8.824	9.211	9.598	9.985	10.372	10.759	11.146	11.533	11.920
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.56	13.87	12.10	10.27	8.36	6.38	4.32	2.20	0.00
		Mz	0.37	0.32	0.28	0.23	0.18	0.14	0.09	0.05	0.00
	Guarda Corpo	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	7.632	7.632	7.632	7.632	7.632	7.632	7.632	7.632	7.632
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.45	10.02	8.59	7.16	5.72	4.29	2.86	1.43	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	41.842	43.699	45.556	47.413	49.270	51.127	52.984	54.841	56.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	73.90	65.89	57.52	48.80	39.74	30.33	20.57	10.46	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	22.223	23.313	24.402	25.492	26.581	27.670	28.760	29.849	30.938
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	39.87	35.60	31.13	26.45	21.57	16.48	11.19	5.70	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	10.102	10.597	11.092	11.587	12.082	12.577	13.073	13.568	14.063
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.12	16.18	14.15	12.02	9.80	7.49	5.09	2.59	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	1.238	2.476	3.714	4.952	6.190	7.428	8.666	9.903
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.43	7.31	6.96	6.38	5.57	4.53	3.25	1.74	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	32.325	32.325	32.325	32.325	32.325	32.325	32.325	32.325	32.325
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.49	42.43	36.37	30.30	24.24	18.18	12.12	6.06	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	61.272	61.272	61.272	61.272	61.272	61.272	61.272	61.272	61.272
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	91.91	80.42	68.93	57.44	45.95	34.47	22.98	11.49	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	25.879	25.879	25.879	25.879	25.879	25.879	25.879	25.879	25.879
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.82	33.97	29.11	24.26	19.41	14.56	9.70	4.85	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.187 m	0.375 m	0.562 m	0.750 m	0.937 m	1.125 m	1.312 m	1.500 m
N24/N152	Peso próprio	N	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	-12.382	-11.995	-11.608	-11.221	-10.834	-10.447	-10.060	-9.673	-9.286
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.29	4.50	6.64	8.71	10.70	12.62	14.47	16.25
		Mz	0.00	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12
	Guarda Corpo	N	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	-15.263	-15.263	-15.263	-15.263	-15.263	-15.263	-15.263	-15.263	-15.263
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.86	5.72	8.59	11.45	14.31	17.17	20.03	22.90
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
	Laje	N	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.187 m	0.375 m	0.562 m	0.750 m	0.937 m	1.125 m	1.312 m	1.500 m
		Vy	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
		Vz	-113.407	-109.694	-105.980	-102.266	-98.552	-94.838	-91.125	-87.411	-83.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	20.92	41.14	60.66	79.48	97.62	115.05	131.79	147.83
		Mz	0.00	-0.09	-0.19	-0.28	-0.38	-0.47	-0.56	-0.66	-0.75
	Pavimentação	N	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961
		Vy	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290
		Vz	-61.886	-59.707	-57.528	-55.349	-53.170	-50.992	-48.813	-46.634	-44.455
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.40	22.39	32.97	43.15	52.91	62.27	71.22	79.76
		Mz	0.00	-0.05	-0.11	-0.16	-0.22	-0.27	-0.33	-0.38	-0.44
	Recapeamento	N	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
		Vy	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Vz	-28.129	-27.139	-26.149	-25.158	-24.168	-23.178	-22.187	-21.197	-20.207
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.18	10.18	14.99	19.61	24.05	28.30	32.37	36.25
		Mz	0.00	-0.02	-0.05	-0.07	-0.10	-0.12	-0.15	-0.17	-0.19
	Vento 0	N	78.604	78.604	78.604	78.604	78.604	78.604	78.604	78.604	78.604
		Vy	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736
		Vz	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.30	-0.60	-0.90	-1.19	-1.49	-1.79	-2.09	-2.39
		Mz	0.00	-0.14	-0.28	-0.41	-0.55	-0.69	-0.83	-0.97	-1.10
	Vento 180	N	-69.270	-69.270	-69.270	-69.270	-69.270	-69.270	-69.270	-69.270	-69.270
		Vy	-0.607	-0.607	-0.607	-0.607	-0.607	-0.607	-0.607	-0.607	-0.607
		Vz	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.30	0.60	0.90	1.20	1.50	1.80	2.10	2.40
		Mz	0.00	0.11	0.23	0.34	0.46	0.57	0.68	0.80	0.91
	Multidão (Passeio)	N	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-19.801	-17.325	-14.849	-12.373	-9.897	-7.422	-4.946	-2.470	0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.48	6.50	9.05	11.14	12.76	13.92	14.62	14.85
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
	Multidão - TB450	N	1.215	1.215	1.215	1.215	1.215	1.215	1.215	1.215	1.215
		Vy	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448
		Vz	-64.669	-64.669	-64.669	-64.669	-64.669	-64.669	-64.669	-64.669	-64.669
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.187 m	0.375 m	0.562 m	0.750 m	0.937 m	1.125 m	1.312 m	1.500 m
		My	0.00	12.13	24.25	36.38	48.50	60.63	72.75	84.88	97.00
		Mz	0.00	-0.08	-0.17	-0.25	-0.34	-0.42	-0.50	-0.59	-0.67
	TB-450-A1	N	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
		Vy	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601
		Vz	-51.688	-51.688	-51.688	-51.688	-51.688	-51.688	-51.688	-51.688	-51.688
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	9.69	19.38	29.07	38.77	48.46	58.15	67.84	77.53
		Mz	0.00	0.11	0.23	0.34	0.45	0.56	0.68	0.79	0.90
	TB-450-A2	N	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022
		Vy	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594
		Vz	-122.463	-122.463	-122.463	-122.463	-122.463	-122.463	-122.463	-122.463	-122.463
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	22.96	45.92	68.89	91.85	114.81	137.77	160.73	183.70
		Mz	0.00	0.11	0.22	0.33	0.45	0.56	0.67	0.78	0.89
	TB-450-B1	N	1.609	1.609	1.609	1.609	1.609	1.609	1.609	1.609	1.609
		Vy	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
		Vz	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05
		Mz	0.00	-0.13	-0.25	-0.38	-0.50	-0.63	-0.75	-0.88	-1.00
	TB-450-B2	N	-1.396	-1.396	-1.396	-1.396	-1.396	-1.396	-1.396	-1.396	-1.396
		Vy	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650
		Vz	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.03	0.05	0.07	0.09	0.10	0.12	0.14
		Mz	0.00	-0.12	-0.24	-0.37	-0.49	-0.61	-0.73	-0.85	-0.97
	TB-450-C1	N	-1.445	-1.445	-1.445	-1.445	-1.445	-1.445	-1.445	-1.445	-1.445
		Vy	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562
		Vz	-0.089	-0.089	-0.089	-0.089	-0.089	-0.089	-0.089	-0.089	-0.089
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.13
		Mz	0.00	-0.11	-0.21	-0.32	-0.42	-0.53	-0.63	-0.74	-0.84
	TB-450-C2	N	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395
		Vy	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	-0.11	-0.23	-0.34	-0.46	-0.57	-0.69	-0.80	-0.92
	TB-450-D1	N	1.594	1.594	1.594	1.594	1.594	1.594	1.594	1.594	1.594

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.187 m	0.375 m	0.562 m	0.750 m	0.937 m	1.125 m	1.312 m	1.500 m
		Vy	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050
		Vz	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07
	TB-450-D2	N	-1.529	-1.529	-1.529	-1.529	-1.529	-1.529	-1.529	-1.529	-1.529
		Vy	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076
		Vz	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
		Mz	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.11
	TB-450-E1	N	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05
	TB-450-E2	N	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N152/N153	Peso próprio	N	-0.054	-0.054	-0.054
		Vy	-0.081	-0.081	-0.081
		Vz	-9.286	-8.873	-8.460
		Mt	0.00	0.00	0.00
		My	16.25	18.07	19.80
		Mz	0.12	0.14	0.15
	Guarda Corpo	N	0.184	0.184	0.184
		Vy	0.028	0.028	0.028
		Vz	-15.263	-7.631	0.001
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	22.90	25.18	25.95
		Mz	-0.04	-0.05	-0.05
	Laje	N	1.756	1.756	1.756
		Vy	0.500	0.500	0.500
		Vz	-83.697	-79.736	-75.774
		Mt	0.00	0.00	0.00
		My	147.83	164.17	179.72
		Mz	-0.75	-0.85	-0.95
	Pavimentação	N	0.961	0.961	0.961
		Vy	0.290	0.290	0.290
		Vz	-44.455	-44.455	-44.455
		Mt	0.00	0.00	0.00
		My	79.76	88.65	97.54
		Mz	-0.44	-0.49	-0.55
	Recapeamento	N	0.443	0.443	0.443
		Vy	0.130	0.130	0.130
		Vz	-20.207	-20.207	-20.207
		Mt	0.00	0.00	0.00
		My	36.25	40.29	44.33
		Mz	-0.19	-0.22	-0.25
	Vento 0	N	78.604	78.604	78.604
		Vy	0.736	0.736	0.736
		Vz	1.593	1.593	1.593
		Mt	0.00	0.00	0.00
		My	-2.39	-2.71	-3.03
		Mz	-1.10	-1.25	-1.40
	Vento 180	N	-69.270	-69.270	-69.270
		Vy	-0.607	-0.607	-0.607
		Vz	-1.602	-1.602	-1.602
		Mt	0.00	0.00	0.00
		My	2.40	2.72	3.04
		Mz	0.91	1.03	1.15
	Multidão (Passeio)	N	0.158	0.158	0.158
		Vy	-0.026	-0.026	-0.026

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.006	0.006	0.006
		Mt	0.00	0.00	0.00
		My	14.85	14.84	14.84
		Mz	0.04	0.04	0.05
	Multidão - TB450	N	1.215	1.215	1.215
		Vy	0.448	0.448	0.448
		Vz	-64.669	-64.669	-64.669
		Mt	0.00	0.00	0.00
		My	97.00	109.94	122.87
		Mz	-0.67	-0.76	-0.85
	TB-450-A1	N	0.487	0.487	0.487
		Vy	-0.601	-0.601	-0.601
		Vz	-51.688	-51.688	-51.688
		Mt	0.00	0.00	0.00
		My	77.53	87.87	98.21
		Mz	0.90	1.02	1.14
	TB-450-A2	N	1.022	1.022	1.022
		Vy	-0.594	-0.594	-0.594
		Vz	-122.463	-122.463	-122.463
		Mt	0.00	0.00	0.00
		My	183.70	208.19	232.68
		Mz	0.89	1.01	1.13
	TB-450-B1	N	1.609	1.609	1.609
		Vy	0.670	0.670	0.670
		Vz	-0.031	-0.031	-0.031
		Mt	0.00	0.00	0.00
		My	0.05	0.05	0.06
		Mz	-1.00	-1.14	-1.27
	TB-450-B2	N	-1.396	-1.396	-1.396
		Vy	0.650	0.650	0.650
		Vz	-0.091	-0.091	-0.091
		Mt	0.00	0.00	0.00
		My	0.14	0.15	0.17
		Mz	-0.97	-1.10	-1.23

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	TB-450-C1	N	-1.445	-1.445	-1.445
		Vy	0.562	0.562	0.562
		Vz	-0.089	-0.089	-0.089
		Mt	0.00	0.00	0.00
		My	0.13	0.15	0.17
		Mz	-0.84	-0.95	-1.07
	TB-450-C2	N	2.395	2.395	2.395
		Vy	0.613	0.613	0.613
		Vz	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00
		My	0.02	0.02	0.02
		Mz	-0.92	-1.04	-1.16
	TB-450-D1	N	1.594	1.594	1.594
		Vy	-0.050	-0.050	-0.050
		Vz	0.040	0.040	0.040
		Mt	0.00	0.00	0.00
		My	-0.06	-0.07	-0.08
		Mz	0.07	0.08	0.09
	TB-450-D2	N	-1.529	-1.529	-1.529
		Vy	-0.076	-0.076	-0.076
		Vz	-0.026	-0.026	-0.026
		Mt	0.00	0.00	0.00
		My	0.04	0.04	0.05
		Mz	0.11	0.13	0.14
	TB-450-E1	N	0.679	0.679	0.679
		Vy	-0.031	-0.031	-0.031
		Vz	0.018	0.018	0.018
		Mt	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03
		Mz	0.05	0.05	0.06
	TB-450-E2	N	-0.590	-0.590	-0.590
		Vy	-0.048	-0.048	-0.048
		Vz	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	0.01	0.01	0.02
		Mz	0.07	0.08	0.09

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N153/N154	Peso próprio	N	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	-8.460	-7.576	-6.691	-6.249	-5.364	-4.479	-3.595	-3.153	-2.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.80	23.24	26.29	27.68	30.17	32.28	34.01	34.73	35.89
		Mz	0.15	0.19	0.22	0.24	0.28	0.31	0.35	0.36	0.40
	Guarda Corpo	N	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.95	25.95	25.95	25.95	25.95	25.95	25.94	25.94	25.94
		Mz	-0.05	-0.07	-0.08	-0.08	-0.10	-0.11	-0.12	-0.13	-0.14
	Laje	N	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756
		Vy	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
		Vz	-75.774	-67.286	-58.797	-54.552	-46.064	-37.575	-29.086	-24.842	-16.353
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	179.72	210.38	237.40	249.54	271.10	289.02	303.31	309.09	317.91
		Mz	-0.95	-1.16	-1.38	-1.49	-1.70	-1.92	-2.13	-2.24	-2.45
	Pavimentação	N	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961
		Vy	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290
		Vz	-44.455	-39.475	-34.495	-32.005	-27.025	-22.045	-17.065	-14.575	-9.595
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.54	115.52	131.37	138.50	151.15	161.66	170.04	173.43	178.61
		Mz	-0.55	-0.68	-0.80	-0.86	-0.99	-1.11	-1.24	-1.30	-1.42
	Recapeamento	N	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
		Vy	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Vz	-20.207	-17.943	-15.679	-14.548	-12.284	-10.020	-7.757	-6.625	-4.361
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.33	52.51	59.71	62.95	68.70	73.48	77.29	78.83	81.19
		Mz	-0.25	-0.30	-0.36	-0.39	-0.44	-0.50	-0.55	-0.58	-0.64
	Vento 0	N	78.604	78.604	78.604	78.604	78.604	78.604	78.604	78.604	78.604
		Vy	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593	1.593
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.03	-3.71	-4.39	-4.73	-5.42	-6.10	-6.78	-7.12	-7.81
		Mz	-1.40	-1.71	-2.03	-2.19	-2.50	-2.82	-3.13	-3.29	-3.61
	Vento 180	N	-69.270	-69.270	-69.270	-69.270	-69.270	-69.270	-69.270	-69.270	-69.270
		Vy	-0.607	-0.607	-0.607	-0.607	-0.607	-0.607	-0.607	-0.607	-0.607
		Vz	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602	-1.602
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.04	3.73	4.42	4.76	5.45	6.13	6.82	7.16	7.85
		Mz	1.15	1.41	1.67	1.80	2.06	2.32	2.58	2.71	2.97
	Multidão (Passeio)	N	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.84	14.84	14.84	14.84	14.83	14.83	14.83	14.83	14.83
		Mz	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.13
	Multidão - TB450	N	1.215	1.215	1.215	1.215	1.215	1.215	1.215	1.215	1.215
		Vy	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448
		Vz	-64.669	-57.425	-50.182	-46.560	-39.316	-32.072	-24.829	-21.207	-13.963
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	122.87	149.03	172.09	182.46	200.86	216.16	228.35	233.28	240.82
		Mz	-0.85	-1.04	-1.23	-1.33	-1.52	-1.71	-1.91	-2.00	-2.19
	TB-450-A1	N	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
		Vy	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601	-0.601
		Vz	-51.688	-51.688	-51.688	-51.688	-51.688	-51.688	-51.688	-51.688	-51.688
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	98.21	120.36	142.51	153.59	175.74	197.89	220.04	231.12	253.27
		Mz	1.14	1.40	1.66	1.78	2.04	2.30	2.56	2.69	2.94
	TB-450-A2	N	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022
		Vy	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594
		Vz	-122.463	-97.563	-72.663	-60.213	-35.313	-10.413	14.488	26.938	51.838
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	232.68	279.83	316.31	330.54	351.01	360.81	359.94	355.50	338.62
		Mz	1.13	1.38	1.64	1.76	2.02	2.27	2.53	2.65	2.91
	TB-450-B1	N	1.609	1.609	1.609	1.609	1.609	1.609	1.609	1.609	1.609
		Vy	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
		Vz	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.07	0.09	0.09	0.11	0.12	0.13	0.14	0.15

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	-1.27	-1.56	-1.85	-1.99	-2.28	-2.56	-2.85	-2.99	-3.28
	TB-450-B2	N	-1.396	-1.396	-1.396	-1.396	-1.396	-1.396	-1.396	-1.396	-1.396
		Vy	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650
		Vz	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.17	0.21	0.25	0.27	0.31	0.35	0.39	0.41	0.45
		Mz	-1.23	-1.51	-1.79	-1.93	-2.21	-2.49	-2.77	-2.91	-3.18
	TB-450-C1	N	-1.445	-1.445	-1.445	-1.445	-1.445	-1.445	-1.445	-1.445	-1.445
		Vy	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562	0.562
		Vz	-0.089	-0.089	-0.089	-0.089	-0.089	-0.089	-0.089	-0.089	-0.089
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.17	0.21	0.25	0.27	0.30	0.34	0.38	0.40	0.44
		Mz	-1.07	-1.31	-1.55	-1.67	-1.91	-2.15	-2.39	-2.51	-2.75
	TB-450-C2	N	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395
		Vy	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06
		Mz	-1.16	-1.43	-1.69	-1.82	-2.08	-2.35	-2.61	-2.74	-3.00
	TB-450-D1	N	1.594	1.594	1.594	1.594	1.594	1.594	1.594	1.594	1.594
		Vy	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050
		Vz	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.09	-0.11	-0.12	-0.13	-0.15	-0.17	-0.18	-0.19
		Mz	0.09	0.12	0.14	0.15	0.17	0.19	0.21	0.22	0.24
	TB-450-D2	N	-1.529	-1.529	-1.529	-1.529	-1.529	-1.529	-1.529	-1.529	-1.529
		Vy	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076	-0.076
		Vz	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.13
		Mz	0.14	0.18	0.21	0.23	0.26	0.29	0.32	0.34	0.37
	TB-450-E1	N	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.04	-0.05	-0.05	-0.06	-0.07	-0.08	-0.08	-0.09
		Mz	0.06	0.07	0.09	0.09	0.11	0.12	0.13	0.14	0.15
	TB-450-E2	N	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04
		Mz	0.09	0.11	0.13	0.14	0.16	0.19	0.21	0.22	0.24

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N154/N78	Peso próprio	N	-0.054	-0.054	-0.054	-0.054	-0.054
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	-2.268	-1.842	-1.417	-0.991	-0.565
		Mt	0.00	0.00	0.00	0.00	0.00
		My	35.89	36.32	36.65	36.90	37.06
		Mz	0.40	0.42	0.43	0.45	0.47
	Guarda Corpo	N	0.184	0.184	0.184	0.184	0.184
		Vy	0.028	0.028	0.028	0.028	0.028
		Vz	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.94	25.94	25.94	25.94	25.94
		Mz	-0.14	-0.14	-0.15	-0.15	-0.16
	Laje	N	1.756	1.756	1.756	1.756	1.756
		Vy	0.500	0.500	0.500	0.500	0.500
		Vz	-16.353	-12.268	-8.183	-4.098	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00
		My	317.91	320.87	322.97	324.24	324.66
		Mz	-2.45	-2.55	-2.66	-2.76	-2.86
	Pavimentação	N	0.961	0.961	0.961	0.961	0.961
		Vy	0.290	0.290	0.290	0.290	0.290
		Vz	-9.595	-7.199	-4.802	-2.405	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00
		My	178.61	180.35	181.58	182.33	182.58
		Mz	-1.42	-1.48	-1.54	-1.60	-1.66
	Recapeamento	N	0.443	0.443	0.443	0.443	0.443
		Vy	0.130	0.130	0.130	0.130	0.130

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	-4.361	-3.272	-2.182	-1.093	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00
		My	81.19	81.97	82.54	82.87	82.99
		Mz	-0.64	-0.66	-0.69	-0.72	-0.74
	Vento 0	N	78.604	78.604	78.604	78.604	78.604
		Vy	0.736	0.736	0.736	0.736	0.736
		Vz	1.593	1.593	1.593	1.593	1.593
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-7.81	-8.14	-8.46	-8.79	-9.12
		Mz	-3.61	-3.76	-3.91	-4.06	-4.21
	Vento 180	N	-69.270	-69.270	-69.270	-69.270	-69.270
		Vy	-0.607	-0.607	-0.607	-0.607	-0.607
		Vz	-1.602	-1.602	-1.602	-1.602	-1.602
		Mt	0.00	0.00	0.00	0.00	0.00
		My	7.85	8.18	8.51	8.84	9.17
		Mz	2.97	3.10	3.22	3.35	3.47
	Multidão (Passeio)	N	0.158	0.158	0.158	0.158	0.158
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	0.006	0.006	0.006	0.006	0.006
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.83	14.82	14.82	14.82	14.82
		Mz	0.13	0.13	0.14	0.14	0.15
	Multidão - TB450	N	1.215	1.215	1.215	1.215	1.215
		Vy	0.448	0.448	0.448	0.448	0.448
		Vz	-13.963	-10.477	-6.991	-3.505	-0.019
		Mt	0.00	0.00	0.00	0.00	0.00
		My	240.82	243.34	245.14	246.22	246.59
		Mz	-2.19	-2.29	-2.38	-2.47	-2.56
	TB-450-A1	N	0.487	0.487	0.487	0.487	0.487
		Vy	-0.601	-0.601	-0.601	-0.601	-0.601
		Vz	-51.688	-51.688	-51.688	-51.688	-51.688
		Mt	0.00	0.00	0.00	0.00	0.00
		My	253.27	263.93	274.59	285.25	295.92
		Mz	2.94	3.07	3.19	3.31	3.44

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	TB-450-A2	N	1.022	1.022	1.022	1.022	1.022
		Vy	-0.594	-0.594	-0.594	-0.594	-0.594
		Vz	51.838	51.838	51.838	51.838	51.838
		Mt	0.00	0.00	0.00	0.00	0.00
		My	338.62	327.93	317.24	306.54	295.85
		Mz	2.91	3.03	3.15	3.28	3.40
	TB-450-B1	N	1.609	1.609	1.609	1.609	1.609
		Vy	0.670	0.670	0.670	0.670	0.670
		Vz	-0.031	-0.031	-0.031	-0.031	-0.031
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.16	0.16	0.17	0.18
		Mz	-3.28	-3.42	-3.56	-3.69	-3.83
	TB-450-B2	N	-1.396	-1.396	-1.396	-1.396	-1.396
		Vy	0.650	0.650	0.650	0.650	0.650
		Vz	-0.091	-0.091	-0.091	-0.091	-0.091
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.45	0.46	0.48	0.50	0.52
		Mz	-3.18	-3.32	-3.45	-3.59	-3.72
	TB-450-C1	N	-1.445	-1.445	-1.445	-1.445	-1.445
		Vy	0.562	0.562	0.562	0.562	0.562
		Vz	-0.089	-0.089	-0.089	-0.089	-0.089
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.44	0.46	0.48	0.49	0.51
		Mz	-2.75	-2.87	-2.98	-3.10	-3.22
	TB-450-C2	N	2.395	2.395	2.395	2.395	2.395
		Vy	0.613	0.613	0.613	0.613	0.613
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.06	0.07	0.07	0.07
		Mz	-3.00	-3.13	-3.26	-3.38	-3.51
	TB-450-D1	N	1.594	1.594	1.594	1.594	1.594
		Vy	-0.050	-0.050	-0.050	-0.050	-0.050
		Vz	0.040	0.040	0.040	0.040	0.040
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	-0.19	-0.20	-0.21	-0.22	-0.23
		Mz	0.24	0.25	0.26	0.27	0.28
	TB-450-D2	N	-1.529	-1.529	-1.529	-1.529	-1.529
		Vy	-0.076	-0.076	-0.076	-0.076	-0.076
		Vz	-0.026	-0.026	-0.026	-0.026	-0.026
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.13	0.14	0.14	0.15
		Mz	0.37	0.39	0.40	0.42	0.43
	TB-450-E1	N	0.679	0.679	0.679	0.679	0.679
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	0.018	0.018	0.018	0.018	0.018
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.09	-0.10	-0.10	-0.10
		Mz	0.15	0.16	0.16	0.17	0.18
	TB-450-E2	N	-0.590	-0.590	-0.590	-0.590	-0.590
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.04	0.04	0.05
		Mz	0.24	0.25	0.26	0.27	0.28

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
N78/N157	Peso próprio	N	0.164	0.164	0.164	0.164	0.164
		Vy	0.086	0.086	0.086	0.086	0.086
		Vz	0.560	0.986	1.411	1.837	2.263
		Mt	0.00	0.00	0.00	0.00	0.00
		My	37.03	36.87	36.62	36.29	35.87
		Mz	0.49	0.48	0.46	0.44	0.42
	Guarda Corpo	N	-0.167	-0.167	-0.167	-0.167	-0.167
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	0.006	0.006	0.006	0.006	0.006

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.99	25.98	25.98	25.98	25.98
		Mz	-0.17	-0.16	-0.15	-0.15	-0.14
	Laje	N	-1.534	-1.534	-1.534	-1.534	-1.534
		Vy	-0.516	-0.516	-0.516	-0.516	-0.516
		Vz	0.080	4.165	8.250	12.336	16.421
		Mt	0.00	0.00	0.00	0.00	0.00
		My	325.05	324.61	323.33	321.21	318.24
		Mz	-2.95	-2.85	-2.74	-2.63	-2.53
	Pavimentação	N	-0.835	-0.835	-0.835	-0.835	-0.835
		Vy	-0.299	-0.299	-0.299	-0.299	-0.299
		Vz	0.045	2.442	4.839	7.235	9.632
		Mt	0.00	0.00	0.00	0.00	0.00
		My	182.79	182.53	181.78	180.53	178.79
		Mz	-1.71	-1.65	-1.59	-1.53	-1.47
	Recapeamento	N	-0.386	-0.386	-0.386	-0.386	-0.386
		Vy	-0.134	-0.134	-0.134	-0.134	-0.134
		Vz	0.020	1.110	2.199	3.289	4.378
		Mt	0.00	0.00	0.00	0.00	0.00
		My	83.08	82.97	82.63	82.06	81.27
		Mz	-0.77	-0.74	-0.71	-0.68	-0.66
	Vento 0	N	-69.595	-69.595	-69.595	-69.595	-69.595
		Vy	-0.706	-0.706	-0.706	-0.706	-0.706
		Vz	1.725	1.725	1.725	1.725	1.725
		Mt	0.00	0.00	0.00	0.00	0.00
		My	9.88	9.52	9.16	8.81	8.45
		Mz	-4.04	-3.90	-3.75	-3.61	-3.46
	Vento 180	N	78.558	78.558	78.558	78.558	78.558
		Vy	0.573	0.573	0.573	0.573	0.573
		Vz	-1.710	-1.710	-1.710	-1.710	-1.710
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-9.79	-9.43	-9.08	-8.73	-8.38
		Mz	3.28	3.16	3.04	2.92	2.81
	Multidão (Passeio)	N	-0.156	-0.156	-0.156	-0.156	-0.156

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
		Vy	0.027	0.027	0.027	0.027	0.027
		Vz	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.86	14.86	14.86	14.86
		Mz	0.15	0.15	0.14	0.14	0.13
	Multidão - TB450	N	-1.035	-1.035	-1.035	-1.035	-1.035
		Vy	-0.462	-0.462	-0.462	-0.462	-0.462
		Vz	0.064	3.550	7.036	10.522	14.008
		Mt	0.00	0.00	0.00	0.00	0.00
		My	246.84	246.47	245.38	243.57	241.04
		Mz	-2.64	-2.55	-2.45	-2.36	-2.26
	TB-450-A1	N	-0.385	-0.385	-0.385	-0.385	-0.385
		Vy	0.621	0.621	0.621	0.621	0.621
		Vz	-51.800	-51.800	-51.800	-51.800	-51.800
		Mt	0.00	0.00	0.00	0.00	0.00
		My	296.07	306.75	317.44	328.12	338.81
		Mz	3.56	3.43	3.30	3.17	3.04
	TB-450-A2	N	-0.886	-0.886	-0.886	-0.886	-0.886
		Vy	0.614	0.614	0.614	0.614	0.614
		Vz	51.728	51.728	51.728	51.728	51.728
		Mt	0.00	0.00	0.00	0.00	0.00
		My	296.14	285.47	274.80	264.13	253.47
		Mz	3.52	3.39	3.26	3.14	3.01
	TB-450-B1	N	-1.537	-1.537	-1.537	-1.537	-1.537
		Vy	-0.691	-0.691	-0.691	-0.691	-0.691
		Vz	0.093	0.093	0.093	0.093	0.093
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.53	0.51	0.49	0.48	0.46
		Mz	-3.96	-3.81	-3.67	-3.53	-3.39
	TB-450-B2	N	0.957	0.957	0.957	0.957	0.957
		Vy	-0.673	-0.673	-0.673	-0.673	-0.673
		Vz	0.030	0.030	0.030	0.030	0.030
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.17	0.16	0.16	0.15	0.15

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
		Mz	-3.85	-3.71	-3.57	-3.43	-3.30
	TB-450-C1	N	1.561	1.561	1.561	1.561	1.561
		Vy	-0.582	-0.582	-0.582	-0.582	-0.582
		Vz	0.015	0.015	0.015	0.015	0.015
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.09	0.08	0.08	0.08	0.07
		Mz	-3.33	-3.21	-3.09	-2.97	-2.85
	TB-450-C2	N	-1.919	-1.919	-1.919	-1.919	-1.919
		Vy	-0.632	-0.632	-0.632	-0.632	-0.632
		Vz	0.101	0.101	0.101	0.101	0.101
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.58	0.56	0.54	0.52	0.50
		Mz	-3.62	-3.49	-3.36	-3.23	-3.10
	TB-450-D1	N	-1.484	-1.484	-1.484	-1.484	-1.484
		Vy	0.053	0.053	0.053	0.053	0.053
		Vz	0.030	0.030	0.030	0.030	0.030
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.17	0.17	0.16	0.15	0.15
		Mz	0.30	0.29	0.28	0.27	0.26
	TB-450-D2	N	1.410	1.410	1.410	1.410	1.410
		Vy	0.077	0.077	0.077	0.077	0.077
		Vz	-0.040	-0.040	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.23	-0.22	-0.21	-0.20	-0.19
		Mz	0.44	0.43	0.41	0.40	0.38
	TB-450-E1	N	-0.652	-0.652	-0.652	-0.652	-0.652
		Vy	0.032	0.032	0.032	0.032	0.032
		Vz	0.012	0.012	0.012	0.012	0.012
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.07	0.07	0.06	0.06
		Mz	0.19	0.18	0.17	0.17	0.16
	TB-450-E2	N	0.543	0.543	0.543	0.543	0.543
		Vy	0.050	0.050	0.050	0.050	0.050
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.10	-0.09	-0.09	-0.09	-0.08
		Mz	0.28	0.27	0.26	0.25	0.24

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N157/N156	Peso próprio	N	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
		Vy	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
		Vz	2.263	3.147	4.032	4.474	5.359	6.243	7.128	7.570	8.455
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	35.87	34.71	33.17	32.26	30.15	27.66	24.80	23.22	19.79
		Mz	0.42	0.39	0.35	0.33	0.29	0.26	0.22	0.20	0.16
	Guarda Corpo	N	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.98	25.98	25.98	25.97	25.97	25.97	25.97	25.96	25.96
		Mz	-0.14	-0.13	-0.12	-0.11	-0.10	-0.09	-0.07	-0.07	-0.05
	Laje	N	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534
		Vy	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516
		Vz	16.421	24.910	33.398	37.643	46.131	54.620	63.109	67.353	75.842
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	318.24	309.39	296.89	289.28	271.33	249.74	224.51	210.54	179.85
		Mz	-2.53	-2.31	-2.09	-1.97	-1.75	-1.53	-1.31	-1.20	-0.98
	Pavimentação	N	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835
		Vy	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299
		Vz	9.632	14.612	19.592	22.082	27.062	32.042	37.022	39.512	44.492
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	178.79	173.60	166.27	161.80	151.27	138.61	123.81	115.61	97.61
		Mz	-1.47	-1.34	-1.21	-1.15	-1.02	-0.89	-0.76	-0.70	-0.57
	Recapeamento	N	-0.386	-0.386	-0.386	-0.386	-0.386	-0.386	-0.386	-0.386	-0.386
		Vy	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
		Vz	4.378	6.642	8.905	10.037	12.301	14.564	16.828	17.960	20.224
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	81.27	78.91	75.58	73.55	68.76	63.00	56.28	52.55	44.37
		Mz	-0.66	-0.60	-0.54	-0.51	-0.45	-0.40	-0.34	-0.31	-0.25
	Vento 0	N	-69.595	-69.595	-69.595	-69.595	-69.595	-69.595	-69.595	-69.595	-69.595

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706
		Vz	1.725	1.725	1.725	1.725	1.725	1.725	1.725	1.725	1.725
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.45	7.71	6.97	6.60	5.86	5.13	4.39	4.02	3.28
		Mz	-3.46	-3.16	-2.86	-2.70	-2.40	-2.10	-1.80	-1.65	-1.34
	Vento 180	N	78.558	78.558	78.558	78.558	78.558	78.558	78.558	78.558	78.558
		Vy	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573
		Vz	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.38	-7.64	-6.91	-6.55	-5.81	-5.08	-4.35	-3.98	-3.25
		Mz	2.81	2.56	2.32	2.19	1.95	1.70	1.46	1.33	1.09
	Multidão (Passeio)	N	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.86	14.86	14.86	14.86	14.86	14.86	14.86	14.86
		Mz	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05
	Multidão - TB450	N	-1.035	-1.035	-1.035	-1.035	-1.035	-1.035	-1.035	-1.035	-1.035
		Vy	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462
		Vz	14.008	21.252	28.495	32.117	39.361	46.605	53.848	57.470	64.714
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	241.04	233.48	222.82	216.33	201.01	182.59	161.07	149.14	122.96
		Mz	-2.26	-2.07	-1.87	-1.77	-1.57	-1.37	-1.17	-1.08	-0.88
	TB-450-A1	N	-0.385	-0.385	-0.385	-0.385	-0.385	-0.385	-0.385	-0.385	-0.385
		Vy	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621
		Vz	-51.800	-26.900	-1.999	10.451	35.351	60.251	85.151	97.601	122.502
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	338.81	355.67	361.86	360.96	351.14	330.66	299.50	279.92	232.75
		Mz	3.04	2.78	2.51	2.38	2.11	1.85	1.58	1.45	1.18
	TB-450-A2	N	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886
		Vy	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614
		Vz	51.728	51.728	51.728	51.728	51.728	51.728	51.728	51.728	51.728
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	253.47	231.30	209.13	198.04	175.87	153.70	131.54	120.45	98.28
		Mz	3.01	2.75	2.48	2.35	2.09	1.83	1.56	1.43	1.17
	TB-450-B1	N	-1.537	-1.537	-1.537	-1.537	-1.537	-1.537	-1.537	-1.537	-1.537
		Vy	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691
		Vz	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	0.46	0.42	0.38	0.36	0.32	0.28	0.24	0.22	0.18
		Mz	-3.39	-3.09	-2.79	-2.65	-2.35	-2.05	-1.76	-1.61	-1.31
	TB-450-B2	N	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957
		Vy	-0.673	-0.673	-0.673	-0.673	-0.673	-0.673	-0.673	-0.673	-0.673
		Vz	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06
		Mz	-3.30	-3.01	-2.72	-2.58	-2.29	-2.00	-1.71	-1.57	-1.28
	TB-450-C1	N	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561
		Vy	-0.582	-0.582	-0.582	-0.582	-0.582	-0.582	-0.582	-0.582	-0.582
		Vz	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.07	0.06	0.06	0.05	0.04	0.04	0.03	0.03
		Mz	-2.85	-2.60	-2.35	-2.23	-1.98	-1.73	-1.48	-1.35	-1.11
	TB-450-C2	N	-1.919	-1.919	-1.919	-1.919	-1.919	-1.919	-1.919	-1.919	-1.919
		Vy	-0.632	-0.632	-0.632	-0.632	-0.632	-0.632	-0.632	-0.632	-0.632
		Vz	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.50	0.45	0.41	0.39	0.34	0.30	0.26	0.24	0.19
		Mz	-3.10	-2.83	-2.56	-2.42	-2.15	-1.88	-1.61	-1.47	-1.20
	TB-450-D1	N	-1.484	-1.484	-1.484	-1.484	-1.484	-1.484	-1.484	-1.484	-1.484
		Vy	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vz	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.14	0.12	0.12	0.10	0.09	0.08	0.07	0.06
		Mz	0.26	0.23	0.21	0.20	0.18	0.16	0.13	0.12	0.10
	TB-450-D2	N	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410
		Vy	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
		Vz	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.19	-0.18	-0.16	-0.15	-0.13	-0.12	-0.10	-0.09	-0.08
		Mz	0.38	0.35	0.31	0.30	0.26	0.23	0.20	0.18	0.15
	TB-450-E1	N	-0.652	-0.652	-0.652	-0.652	-0.652	-0.652	-0.652	-0.652	-0.652
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02
		Mz	0.16	0.15	0.13	0.12	0.11	0.10	0.08	0.08	0.06
	TB-450-E2	N	0.543	0.543	0.543	0.543	0.543	0.543	0.543	0.543	0.543

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.08	-0.07	-0.06	-0.06	-0.05	-0.04	-0.04	-0.03
		Mz	0.24	0.22	0.20	0.19	0.17	0.15	0.13	0.12	0.09

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N156/N155	Peso próprio	N	0.164	0.164	0.164
		Vy	0.086	0.086	0.086
		Vz	8.455	8.868	9.281
		Mt	0.00	0.00	0.00
		My	19.79	18.06	16.24
		Mz	0.16	0.15	0.13
	Guarda Corpo	N	-0.167	-0.167	-0.167
		Vy	-0.029	-0.029	-0.029
		Vz	0.006	7.639	15.271
		Mt	0.00	0.00	0.00
		My	25.96	25.20	22.91
		Mz	-0.05	-0.05	-0.04
	Laje	N	-1.534	-1.534	-1.534
		Vy	-0.516	-0.516	-0.516
		Vz	75.842	79.803	83.765
		Mt	0.00	0.00	0.00
		My	179.85	164.29	147.93
		Mz	-0.98	-0.88	-0.77
	Pavimentação	N	-0.835	-0.835	-0.835
		Vy	-0.299	-0.299	-0.299
		Vz	44.492	44.492	44.492
		Mt	0.00	0.00	0.00
		My	97.61	88.71	79.81
		Mz	-0.57	-0.51	-0.45
	Recapeamento	N	-0.386	-0.386	-0.386

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vy	-0.134	-0.134	-0.134
		Vz	20.224	20.224	20.224
		Mt	0.00	0.00	0.00
		My	44.37	40.32	36.28
		Mz	-0.25	-0.23	-0.20
	Vento 0	N	-69.595	-69.595	-69.595
		Vy	-0.706	-0.706	-0.706
		Vz	1.725	1.725	1.725
		Mt	0.00	0.00	0.00
		My	3.28	2.93	2.59
		Mz	-1.34	-1.20	-1.06
	Vento 180	N	78.558	78.558	78.558
		Vy	0.573	0.573	0.573
		Vz	-1.710	-1.710	-1.710
		Mt	0.00	0.00	0.00
		My	-3.25	-2.91	-2.56
		Mz	1.09	0.97	0.86
	Multidão (Passeio)	N	-0.156	-0.156	-0.156
		Vy	0.027	0.027	0.027
		Vz	0.001	0.001	0.001
		Mt	0.00	0.00	0.00
		My	14.86	14.86	14.86
		Mz	0.05	0.05	0.04
	Multidão - TB450	N	-1.035	-1.035	-1.035
		Vy	-0.462	-0.462	-0.462
		Vz	64.714	64.714	64.714
		Mt	0.00	0.00	0.00
		My	122.96	110.01	97.07
		Mz	-0.88	-0.79	-0.69
	TB-450-A1	N	-0.385	-0.385	-0.385
		Vy	0.621	0.621	0.621
		Vz	122.502	122.502	122.502
		Mt	0.00	0.00	0.00
		My	232.75	208.25	183.75

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mz	1.18	1.06	0.93
	TB-450-A2	N	-0.886	-0.886	-0.886
		Vy	0.614	0.614	0.614
		Vz	51.728	51.728	51.728
		Mt	0.00	0.00	0.00
		My	98.28	87.94	77.59
		Mz	1.17	1.04	0.92
	TB-450-B1	N	-1.537	-1.537	-1.537
		Vy	-0.691	-0.691	-0.691
		Vz	0.093	0.093	0.093
		Mt	0.00	0.00	0.00
		My	0.18	0.16	0.14
		Mz	-1.31	-1.17	-1.04
	TB-450-B2	N	0.957	0.957	0.957
		Vy	-0.673	-0.673	-0.673
		Vz	0.030	0.030	0.030
		Mt	0.00	0.00	0.00
		My	0.06	0.05	0.04
		Mz	-1.28	-1.14	-1.01
	TB-450-C1	N	1.561	1.561	1.561
		Vy	-0.582	-0.582	-0.582
		Vz	0.015	0.015	0.015
		Mt	0.00	0.00	0.00
		My	0.03	0.03	0.02
		Mz	-1.11	-0.99	-0.87
	TB-450-C2	N	-1.919	-1.919	-1.919
		Vy	-0.632	-0.632	-0.632
		Vz	0.101	0.101	0.101
		Mt	0.00	0.00	0.00
		My	0.19	0.17	0.15
		Mz	-1.20	-1.07	-0.95
	TB-450-D1	N	-1.484	-1.484	-1.484
		Vy	0.053	0.053	0.053
		Vz	0.030	0.030	0.030

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mt	0.00	0.00	0.00
		My	0.06	0.05	0.05
		Mz	0.10	0.09	0.08
	TB-450-D2	N	1.410	1.410	1.410
		Vy	0.077	0.077	0.077
		Vz	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00
		My	-0.08	-0.07	-0.06
		Mz	0.15	0.13	0.12
	TB-450-E1	N	-0.652	-0.652	-0.652
		Vy	0.032	0.032	0.032
		Vz	0.012	0.012	0.012
		Mt	0.00	0.00	0.00
		My	0.02	0.02	0.02
		Mz	0.06	0.06	0.05
	TB-450-E2	N	0.543	0.543	0.543
		Vy	0.050	0.050	0.050
		Vz	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03
		Mz	0.09	0.08	0.07

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N155/N36	Peso próprio	N	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
		Vy	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
		Vz	9.281	9.668	10.055	10.442	10.829	11.216	11.603	11.990	12.377
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.24	14.47	12.62	10.70	8.70	6.64	4.50	2.28	0.00
		Mz	0.13	0.11	0.10	0.08	0.06	0.05	0.03	0.02	0.00
	Guarda Corpo	N	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	15.271	15.271	15.271	15.271	15.271	15.271	15.271	15.271	15.271
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	22.91	20.04	17.18	14.32	11.45	8.59	5.73	2.86	0.00
		Mz	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Laje	N	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534
		Vy	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516
		Vz	83.765	87.478	91.192	94.906	98.620	102.334	106.047	109.761	113.475
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	147.93	131.88	115.13	97.68	79.54	60.70	41.16	20.93	0.00
		Mz	-0.77	-0.68	-0.58	-0.48	-0.39	-0.29	-0.19	-0.10	0.00
	Pavimentação	N	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835
		Vy	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299
		Vz	44.492	46.671	48.850	51.028	53.207	55.386	57.565	59.743	61.922
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	79.81	71.26	62.31	52.95	43.17	32.99	22.40	11.41	0.00
		Mz	-0.45	-0.39	-0.34	-0.28	-0.22	-0.17	-0.11	-0.06	0.00
	Recapeamento	N	-0.386	-0.386	-0.386	-0.386	-0.386	-0.386	-0.386	-0.386	-0.386
		Vy	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
		Vz	20.224	21.214	22.204	23.195	24.185	25.175	26.166	27.156	28.146
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.28	32.39	28.32	24.07	19.62	15.00	10.18	5.18	0.00
		Mz	-0.20	-0.18	-0.15	-0.13	-0.10	-0.08	-0.05	-0.03	0.00
	Vento 0	N	-69.595	-69.595	-69.595	-69.595	-69.595	-69.595	-69.595	-69.595	-69.595
		Vy	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706
		Vz	1.725	1.725	1.725	1.725	1.725	1.725	1.725	1.725	1.725
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.59	2.26	1.94	1.62	1.29	0.97	0.65	0.32	0.00
		Mz	-1.06	-0.93	-0.79	-0.66	-0.53	-0.40	-0.26	-0.13	0.00
	Vento 180	N	78.558	78.558	78.558	78.558	78.558	78.558	78.558	78.558	78.558
		Vy	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573
		Vz	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.56	-2.24	-1.92	-1.60	-1.28	-0.96	-0.64	-0.32	0.00
		Mz	0.86	0.75	0.64	0.54	0.43	0.32	0.21	0.11	0.00
	Multidão (Passeio)	N	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	0.001	2.477	4.953	7.429	9.905	12.381	14.857	17.332	19.808
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.62	13.93	12.77	11.14	9.05	6.50	3.48	0.00
		Mz	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
	Multidão - TB450	N	-1.035	-1.035	-1.035	-1.035	-1.035	-1.035	-1.035	-1.035	-1.035

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462
		Vz	64.714	64.714	64.714	64.714	64.714	64.714	64.714	64.714	64.714
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.07	84.94	72.80	60.67	48.54	36.40	24.27	12.13	0.00
		Mz	-0.69	-0.61	-0.52	-0.43	-0.35	-0.26	-0.17	-0.09	0.00
	TB-450-A1	N	-0.385	-0.385	-0.385	-0.385	-0.385	-0.385	-0.385	-0.385	-0.385
		Vy	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621	0.621
		Vz	122.502	122.502	122.502	122.502	122.502	122.502	122.502	122.502	122.502
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	183.75	160.78	137.81	114.85	91.88	68.91	45.94	22.97	0.00
		Mz	0.93	0.82	0.70	0.58	0.47	0.35	0.23	0.12	0.00
	TB-450-A2	N	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886
		Vy	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614
		Vz	51.728	51.728	51.728	51.728	51.728	51.728	51.728	51.728	51.728
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	77.59	67.89	58.19	48.49	38.80	29.10	19.40	9.70	0.00
		Mz	0.92	0.81	0.69	0.58	0.46	0.35	0.23	0.12	0.00
	TB-450-B1	N	-1.537	-1.537	-1.537	-1.537	-1.537	-1.537	-1.537	-1.537	-1.537
		Vy	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691	-0.691
		Vz	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.14	0.12	0.10	0.09	0.07	0.05	0.03	0.02	0.00
		Mz	-1.04	-0.91	-0.78	-0.65	-0.52	-0.39	-0.26	-0.13	0.00
	TB-450-B2	N	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957
		Vy	-0.673	-0.673	-0.673	-0.673	-0.673	-0.673	-0.673	-0.673	-0.673
		Vz	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
		Mz	-1.01	-0.88	-0.76	-0.63	-0.50	-0.38	-0.25	-0.13	0.00
	TB-450-C1	N	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561
		Vy	-0.582	-0.582	-0.582	-0.582	-0.582	-0.582	-0.582	-0.582	-0.582
		Vz	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
		Mz	-0.87	-0.76	-0.65	-0.55	-0.44	-0.33	-0.22	-0.11	0.00
	TB-450-C2	N	-1.919	-1.919	-1.919	-1.919	-1.919	-1.919	-1.919	-1.919	-1.919
		Vy	-0.632	-0.632	-0.632	-0.632	-0.632	-0.632	-0.632	-0.632	-0.632
		Vz	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.15	0.13	0.11	0.10	0.08	0.06	0.04	0.02	0.00
		Mz	-0.95	-0.83	-0.71	-0.59	-0.47	-0.36	-0.24	-0.12	0.00
	TB-450-D1	N	-1.484	-1.484	-1.484	-1.484	-1.484	-1.484	-1.484	-1.484	-1.484
		Vy	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vz	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-D2	N	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410
		Vy	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
		Vz	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.00
	TB-450-E1	N	-0.652	-0.652	-0.652	-0.652	-0.652	-0.652	-0.652	-0.652	-0.652
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.00
	TB-450-E2	N	0.543	0.543	0.543	0.543	0.543	0.543	0.543	0.543	0.543
		Vy	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N2/N146	Peso próprio	N	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-12.386	-11.999	-11.612	-11.225	-10.838	-10.451	-10.064	-9.677	-9.290
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.29	4.50	6.64	8.71	10.71	12.63	14.48	16.26
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
	Guarda Corpo	N	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vy	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vz	-15.267	-15.267	-15.267	-15.267	-15.267	-15.267	-15.267	-15.267	-15.267

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.86	5.73	8.59	11.45	14.31	17.18	20.04	22.90
		Mz	0.00	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.06	-0.07
	Laje	N	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712
		Vy	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642
		Vz	-113.441	-109.727	-106.013	-102.299	-98.586	-94.872	-91.158	-87.444	-83.730
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	20.92	41.15	60.68	79.51	97.65	115.09	131.83	147.88
		Mz	0.00	-0.12	-0.24	-0.36	-0.48	-0.60	-0.72	-0.84	-0.96
	Pavimentação	N	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012
		Vy	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
		Vz	-61.904	-59.725	-57.546	-55.368	-53.189	-51.010	-48.831	-46.652	-44.474
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.40	22.40	32.98	43.16	52.93	62.29	71.24	79.78
		Mz	0.00	-0.07	-0.14	-0.21	-0.28	-0.35	-0.42	-0.48	-0.55
	Recapeamento	N	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446
		Vy	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
		Vz	-28.138	-27.147	-26.157	-25.167	-24.176	-23.186	-22.196	-21.205	-20.215
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.18	10.18	14.99	19.62	24.06	28.31	32.38	36.26
		Mz	0.00	-0.03	-0.06	-0.09	-0.12	-0.15	-0.19	-0.22	-0.25
	Vento 0	N	37.728	37.728	37.728	37.728	37.728	37.728	37.728	37.728	37.728
		Vy	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179
		Vz	0.759	0.759	0.759	0.759	0.759	0.759	0.759	0.759	0.759
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.14	-0.28	-0.43	-0.57	-0.71	-0.85	-1.00	-1.14
		Mz	0.00	-0.03	-0.07	-0.10	-0.13	-0.17	-0.20	-0.23	-0.27
	Vento 180	N	-27.830	-27.830	-27.830	-27.830	-27.830	-27.830	-27.830	-27.830	-27.830
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	-0.770	-0.770	-0.770	-0.770	-0.770	-0.770	-0.770	-0.770	-0.770
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.14	0.29	0.43	0.58	0.72	0.87	1.01	1.15
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.07
	Multidão (Passeio)	N	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-19.805	-17.329	-14.853	-12.377	-9.902	-7.426	-4.950	-2.474	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.48	6.50	9.05	11.14	12.76	13.92	14.62	14.85
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
	Multidão - TB450	N	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581
		Vy	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
		Vz	-64.691	-64.691	-64.691	-64.691	-64.691	-64.691	-64.691	-64.691	-64.691
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	12.13	24.26	36.39	48.52	60.65	72.78	84.91	97.04
		Mz	0.00	-0.10	-0.20	-0.30	-0.40	-0.50	-0.60	-0.70	-0.80
	TB-450-A1	N	2.128	2.128	2.128	2.128	2.128	2.128	2.128	2.128	2.128
		Vy	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259
		Vz	-25.844	-25.844	-25.844	-25.844	-25.844	-25.844	-25.844	-25.844	-25.844
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.85	9.69	14.54	19.38	24.23	29.07	33.92	38.77
		Mz	0.00	0.05	0.10	0.15	0.19	0.24	0.29	0.34	0.39
	TB-450-A2	N	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229
		Vy	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260
		Vz	-61.234	-61.234	-61.234	-61.234	-61.234	-61.234	-61.234	-61.234	-61.234
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.48	22.96	34.44	45.93	57.41	68.89	80.37	91.85
		Mz	0.00	0.05	0.10	0.15	0.19	0.24	0.29	0.34	0.39
	TB-450-B1	N	-1.255	-1.255	-1.255	-1.255	-1.255	-1.255	-1.255	-1.255	-1.255
		Vy	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.363
		Vz	-25.901	-25.901	-25.901	-25.901	-25.901	-25.901	-25.901	-25.901	-25.901
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.86	9.71	14.57	19.43	24.28	29.14	34.00	38.85
		Mz	0.00	-0.07	-0.14	-0.20	-0.27	-0.34	-0.41	-0.48	-0.55
	TB-450-B2	N	-2.146	-2.146	-2.146	-2.146	-2.146	-2.146	-2.146	-2.146	-2.146
		Vy	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
		Vz	-61.319	-61.319	-61.319	-61.319	-61.319	-61.319	-61.319	-61.319	-61.319
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.50	22.99	34.49	45.99	57.49	68.98	80.48	91.98
		Mz	0.00	-0.07	-0.13	-0.20	-0.27	-0.33	-0.40	-0.47	-0.54
	TB-450-C1	N	-3.501	-3.501	-3.501	-3.501	-3.501	-3.501	-3.501	-3.501	-3.501
		Vy	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631
		Vz	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.12
		Mz	0.00	-0.12	-0.24	-0.36	-0.47	-0.59	-0.71	-0.83	-0.95
	TB-450-C2	N	-2.048	-2.048	-2.048	-2.048	-2.048	-2.048	-2.048	-2.048	-2.048
		Vy	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660
		Vz	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06
		Mz	0.00	-0.12	-0.25	-0.37	-0.49	-0.62	-0.74	-0.87	-0.99
	TB-450-D1	N	0.827	0.827	0.827	0.827	0.827	0.827	0.827	0.827	0.827
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03
		Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.06
	TB-450-D2	N	-0.411	-0.411	-0.411	-0.411	-0.411	-0.411	-0.411	-0.411	-0.411
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07
	TB-450-E1	N	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386
		Vy	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	TB-450-E2	N	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144
		Vy	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N146/N147	Peso próprio	N	0.064	0.064	0.064
		Vy	-0.026	-0.026	-0.026
		Vz	-9.290	-8.877	-8.465
		Mt	0.00	0.00	0.00
		My	16.26	18.07	19.81
		Mz	0.04	0.04	0.05

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Guarda Corpo	N	-0.084	-0.084	-0.084
		Vy	0.046	0.046	0.046
		Vz	-15.267	-7.635	-0.003
		Mt	0.00	0.00	0.00
		My	22.90	25.19	25.95
		Mz	-0.07	-0.08	-0.09
	Laje	N	-1.712	-1.712	-1.712
		Vy	0.642	0.642	0.642
		Vz	-83.730	-79.769	-75.808
		Mt	0.00	0.00	0.00
		My	147.88	164.23	179.79
		Mz	-0.96	-1.09	-1.22
	Pavimentação	N	-1.012	-1.012	-1.012
		Vy	0.369	0.369	0.369
		Vz	-44.474	-44.474	-44.474
		Mt	0.00	0.00	0.00
		My	79.78	88.68	97.57
		Mz	-0.55	-0.63	-0.70
	Recapeamento	N	-0.446	-0.446	-0.446
		Vy	0.165	0.165	0.165
		Vz	-20.215	-20.215	-20.215
		Mt	0.00	0.00	0.00
		My	36.26	40.31	44.35
		Mz	-0.25	-0.28	-0.31
	Vento 0	N	37.728	37.728	37.728
		Vy	0.179	0.179	0.179
		Vz	0.759	0.759	0.759
		Mt	0.00	0.00	0.00
		My	-1.14	-1.29	-1.44
		Mz	-0.27	-0.30	-0.34
	Vento 180	N	-27.830	-27.830	-27.830
		Vy	-0.049	-0.049	-0.049
		Vz	-0.770	-0.770	-0.770
		Mt	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	1.15	1.31	1.46
		Mz	0.07	0.08	0.09
	Multidão (Passeio)	N	0.121	0.121	0.121
		Vy	-0.005	-0.005	-0.005
		Vz	0.002	0.002	0.002
		Mt	0.00	0.00	0.00
		My	14.85	14.85	14.85
		Mz	0.01	0.01	0.01
	Multidão - TB450	N	-1.581	-1.581	-1.581
		Vy	0.535	0.535	0.535
		Vz	-64.691	-64.691	-64.691
		Mt	0.00	0.00	0.00
		My	97.04	109.97	122.91
		Mz	-0.80	-0.91	-1.02
	TB-450-A1	N	2.128	2.128	2.128
		Vy	-0.259	-0.259	-0.259
		Vz	-25.844	-25.844	-25.844
		Mt	0.00	0.00	0.00
		My	38.77	43.93	49.10
		Mz	0.39	0.44	0.49
	TB-450-A2	N	2.229	2.229	2.229
		Vy	-0.260	-0.260	-0.260
		Vz	-61.234	-61.234	-61.234
		Mt	0.00	0.00	0.00
		My	91.85	104.10	116.34
		Mz	0.39	0.44	0.49
	TB-450-B1	N	-1.255	-1.255	-1.255
		Vy	0.363	0.363	0.363
		Vz	-25.901	-25.901	-25.901
		Mt	0.00	0.00	0.00
		My	38.85	44.03	49.21
		Mz	-0.55	-0.62	-0.69
	TB-450-B2	N	-2.146	-2.146	-2.146
		Vy	0.357	0.357	0.357

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	-61.319	-61.319	-61.319
		Mt	0.00	0.00	0.00
		My	91.98	104.24	116.51
		Mz	-0.54	-0.61	-0.68
	TB-450-C1	N	-3.501	-3.501	-3.501
		Vy	0.631	0.631	0.631
		Vz	-0.080	-0.080	-0.080
		Mt	0.00	0.00	0.00
		My	0.12	0.14	0.15
		Mz	-0.95	-1.07	-1.20
	TB-450-C2	N	-2.048	-2.048	-2.048
		Vy	0.660	0.660	0.660
		Vz	-0.042	-0.042	-0.042
		Mt	0.00	0.00	0.00
		My	0.06	0.07	0.08
		Mz	-0.99	-1.12	-1.25
	TB-450-D1	N	0.827	0.827	0.827
		Vy	-0.043	-0.043	-0.043
		Vz	0.021	0.021	0.021
		Mt	0.00	0.00	0.00
		My	-0.03	-0.04	-0.04
		Mz	0.06	0.07	0.08
	TB-450-D2	N	-0.411	-0.411	-0.411
		Vy	-0.049	-0.049	-0.049
		Vz	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00
		My	0.02	0.02	0.02
		Mz	0.07	0.08	0.09
	TB-450-E1	N	0.386	0.386	0.386
		Vy	-0.032	-0.032	-0.032
		Vz	0.010	0.010	0.010
		Mt	0.00	0.00	0.00
		My	-0.01	-0.02	-0.02
		Mz	0.05	0.05	0.06

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	TB-450-E2	N	-0.144	-0.144	-0.144
		Vy	-0.041	-0.041	-0.041
		Vz	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00
		My	0.01	0.01	0.01
		Mz	0.06	0.07	0.08

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N147/N148	Peso próprio	N	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-8.465	-7.580	-6.695	-6.253	-5.368	-4.484	-3.599	-3.157	-2.272
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.81	23.25	26.31	27.69	30.18	32.29	34.03	34.75	35.91
		Mz	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13
	Guarda Corpo	N	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vy	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.95	25.96	25.96	25.96	25.96	25.96	25.96	25.96	25.96
		Mz	-0.09	-0.11	-0.13	-0.14	-0.16	-0.17	-0.19	-0.20	-0.22
	Laje	N	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712	-1.712
		Vy	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642
		Vz	-75.808	-67.319	-58.830	-54.586	-46.097	-37.608	-29.120	-24.875	-16.387
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	179.79	210.46	237.49	249.64	271.21	289.15	303.45	309.24	318.08
		Mz	-1.22	-1.50	-1.77	-1.91	-2.18	-2.46	-2.74	-2.87	-3.15
	Pavimentação	N	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012
		Vy	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
		Vz	-44.474	-39.494	-34.514	-32.024	-27.044	-22.064	-17.084	-14.593	-9.613
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.57	115.57	131.42	138.55	151.21	161.73	170.12	173.52	178.70
		Mz	-0.70	-0.86	-1.02	-1.10	-1.25	-1.41	-1.57	-1.65	-1.81
	Recapeamento	N	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446
		Vy	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
		Vz	-20.215	-17.951	-15.688	-14.556	-12.292	-10.029	-7.765	-6.633	-4.369

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.35	52.53	59.74	62.98	68.73	73.51	77.33	78.87	81.23
		Mz	-0.31	-0.38	-0.46	-0.49	-0.56	-0.63	-0.70	-0.74	-0.81
	Vento 0	N	37.728	37.728	37.728	37.728	37.728	37.728	37.728	37.728	37.728
		Vy	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179
		Vz	0.759	0.759	0.759	0.759	0.759	0.759	0.759	0.759	0.759
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.44	-1.77	-2.09	-2.25	-2.58	-2.91	-3.23	-3.39	-3.72
		Mz	-0.34	-0.42	-0.49	-0.53	-0.61	-0.68	-0.76	-0.80	-0.88
	Vento 180	N	-27.830	-27.830	-27.830	-27.830	-27.830	-27.830	-27.830	-27.830	-27.830
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	-0.770	-0.770	-0.770	-0.770	-0.770	-0.770	-0.770	-0.770	-0.770
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.46	1.79	2.12	2.29	2.62	2.95	3.28	3.44	3.77
		Mz	0.09	0.12	0.14	0.15	0.17	0.19	0.21	0.22	0.24
	Multidão (Passeio)	N	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85
		Mz	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03
	Multidão - TB450	N	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581
		Vy	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
		Vz	-64.691	-57.447	-50.203	-46.581	-39.338	-32.094	-24.850	-21.228	-13.985
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	122.91	149.08	172.15	182.52	200.93	216.24	228.44	233.38	240.92
		Mz	-1.02	-1.25	-1.48	-1.59	-1.82	-2.05	-2.28	-2.39	-2.62
	TB-450-A1	N	2.128	2.128	2.128	2.128	2.128	2.128	2.128	2.128	2.128
		Vy	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259
		Vz	-25.844	-25.844	-25.844	-25.844	-25.844	-25.844	-25.844	-25.844	-25.844
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.10	60.18	71.25	76.79	87.87	98.94	110.02	115.56	126.63
		Mz	0.49	0.60	0.71	0.77	0.88	0.99	1.10	1.16	1.27
	TB-450-A2	N	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229
		Vy	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260
		Vz	-61.234	-48.784	-36.334	-30.108	-17.658	-5.208	7.242	13.467	25.917
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	116.34	139.92	158.16	165.28	175.51	180.41	179.98	177.76	169.32
		Mz	0.49	0.60	0.72	0.77	0.88	0.99	1.10	1.16	1.27

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
	TB-450-B1	N	-1.255	-1.255	-1.255	-1.255	-1.255	-1.255	-1.255	-1.255	-1.255
		Vy	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.363
		Vz	-25.901	-25.901	-25.901	-25.901	-25.901	-25.901	-25.901	-25.901	-25.901
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.21	60.31	71.41	76.96	88.06	99.16	110.26	115.82	126.92
		Mz	-0.69	-0.85	-1.00	-1.08	-1.24	-1.39	-1.55	-1.62	-1.78
	TB-450-B2	N	-2.146	-2.146	-2.146	-2.146	-2.146	-2.146	-2.146	-2.146	-2.146
		Vy	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
		Vz	-61.319	-48.869	-36.419	-30.194	-17.744	-5.293	7.157	13.382	25.832
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	116.51	140.12	158.39	165.53	175.80	180.74	180.34	178.14	169.74
		Mz	-0.68	-0.83	-0.98	-1.06	-1.21	-1.37	-1.52	-1.60	-1.75
	TB-450-C1	N	-3.501	-3.501	-3.501	-3.501	-3.501	-3.501	-3.501	-3.501	-3.501
		Vy	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631	0.631
		Vz	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.19	0.22	0.24	0.27	0.31	0.34	0.36	0.39
		Mz	-1.20	-1.47	-1.74	-1.88	-2.15	-2.42	-2.69	-2.82	-3.09
	TB-450-C2	N	-2.048	-2.048	-2.048	-2.048	-2.048	-2.048	-2.048	-2.048	-2.048
		Vy	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660	0.660
		Vz	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.08	0.10	0.11	0.12	0.14	0.16	0.18	0.19	0.20
		Mz	-1.25	-1.54	-1.82	-1.96	-2.24	-2.53	-2.81	-2.95	-3.23
	TB-450-D1	N	0.827	0.827	0.827	0.827	0.827	0.827	0.827	0.827	0.827
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.05	-0.06	-0.06	-0.07	-0.08	-0.09	-0.09	-0.10
		Mz	0.08	0.10	0.12	0.13	0.15	0.17	0.18	0.19	0.21
	TB-450-D2	N	-0.411	-0.411	-0.411	-0.411	-0.411	-0.411	-0.411	-0.411	-0.411
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06
		Mz	0.09	0.11	0.13	0.14	0.17	0.19	0.21	0.22	0.24
	TB-450-E1	N	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386
		Vy	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04	-0.04	-0.04	-0.05
		Mz	0.06	0.07	0.09	0.10	0.11	0.12	0.14	0.14	0.16
	TB-450-E2	N	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144
		Vy	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.08	0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.20

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N148/N79	Peso próprio	N	0.064	0.064	0.064	0.064	0.064
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-2.272	-1.847	-1.421	-0.995	-0.569
		Mt	0.00	0.00	0.00	0.00	0.00
		My	35.91	36.34	36.68	36.92	37.09
		Mz	0.13	0.13	0.14	0.14	0.15
	Guarda Corpo	N	-0.084	-0.084	-0.084	-0.084	-0.084
		Vy	0.046	0.046	0.046	0.046	0.046
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.96	25.96	25.96	25.96	25.97
		Mz	-0.22	-0.23	-0.24	-0.25	-0.26
	Laje	N	-1.712	-1.712	-1.712	-1.712	-1.712
		Vy	0.642	0.642	0.642	0.642	0.642
		Vz	-16.387	-12.302	-8.216	-4.131	-0.046
		Mt	0.00	0.00	0.00	0.00	0.00
		My	318.08	321.04	323.15	324.43	324.86
		Mz	-3.15	-3.28	-3.41	-3.55	-3.68
	Pavimentação	N	-1.012	-1.012	-1.012	-1.012	-1.012
		Vy	0.369	0.369	0.369	0.369	0.369
		Vz	-9.613	-7.217	-4.820	-2.424	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	178.70	180.44	181.68	182.43	182.68
		Mz	-1.81	-1.88	-1.96	-2.04	-2.11
	Recapeamento	N	-0.446	-0.446	-0.446	-0.446	-0.446
		Vy	0.165	0.165	0.165	0.165	0.165
		Vz	-4.369	-3.280	-2.191	-1.101	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00
		My	81.23	82.02	82.58	82.92	83.03
		Mz	-0.81	-0.84	-0.88	-0.91	-0.95
	Vento 0	N	37.728	37.728	37.728	37.728	37.728
		Vy	0.179	0.179	0.179	0.179	0.179
		Vz	0.759	0.759	0.759	0.759	0.759
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.72	-3.87	-4.03	-4.19	-4.34
		Mz	-0.88	-0.91	-0.95	-0.99	-1.02
	Vento 180	N	-27.830	-27.830	-27.830	-27.830	-27.830
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	-0.770	-0.770	-0.770	-0.770	-0.770
		Mt	0.00	0.00	0.00	0.00	0.00
		My	3.77	3.93	4.09	4.25	4.41
		Mz	0.24	0.25	0.26	0.27	0.28
	Multidão (Passeio)	N	0.121	0.121	0.121	0.121	0.121
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.85	14.85	14.84	14.84	14.84
		Mz	0.03	0.03	0.03	0.03	0.03
	Multidão - TB450	N	-1.581	-1.581	-1.581	-1.581	-1.581
		Vy	0.535	0.535	0.535	0.535	0.535
		Vz	-13.985	-10.499	-7.013	-3.527	-0.041
		Mt	0.00	0.00	0.00	0.00	0.00
		My	240.92	243.45	245.26	246.34	246.71
		Mz	-2.62	-2.73	-2.84	-2.95	-3.06
	TB-450-A1	N	2.128	2.128	2.128	2.128	2.128
		Vy	-0.259	-0.259	-0.259	-0.259	-0.259

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	-25.844	-25.844	-25.844	-25.844	-25.844
		Mt	0.00	0.00	0.00	0.00	0.00
		My	126.63	131.96	137.29	142.62	147.95
		Mz	1.27	1.32	1.38	1.43	1.48
	TB-450-A2	N	2.229	2.229	2.229	2.229	2.229
		Vy	-0.260	-0.260	-0.260	-0.260	-0.260
		Vz	25.917	25.917	25.917	25.917	25.917
		Mt	0.00	0.00	0.00	0.00	0.00
		My	169.32	163.97	158.63	153.28	147.94
		Mz	1.27	1.33	1.38	1.43	1.49
	TB-450-B1	N	-1.255	-1.255	-1.255	-1.255	-1.255
		Vy	0.363	0.363	0.363	0.363	0.363
		Vz	-25.901	-25.901	-25.901	-25.901	-25.901
		Mt	0.00	0.00	0.00	0.00	0.00
		My	126.92	132.26	137.60	142.94	148.28
		Mz	-1.78	-1.86	-1.93	-2.01	-2.08
	TB-450-B2	N	-2.146	-2.146	-2.146	-2.146	-2.146
		Vy	0.357	0.357	0.357	0.357	0.357
		Vz	25.832	25.832	25.832	25.832	25.832
		Mt	0.00	0.00	0.00	0.00	0.00
		My	169.74	164.41	159.08	153.75	148.43
		Mz	-1.75	-1.82	-1.90	-1.97	-2.04
	TB-450-C1	N	-3.501	-3.501	-3.501	-3.501	-3.501
		Vy	0.631	0.631	0.631	0.631	0.631
		Vz	-0.080	-0.080	-0.080	-0.080	-0.080
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.39	0.41	0.42	0.44	0.46
		Mz	-3.09	-3.22	-3.35	-3.49	-3.62
	TB-450-C2	N	-2.048	-2.048	-2.048	-2.048	-2.048
		Vy	0.660	0.660	0.660	0.660	0.660
		Vz	-0.042	-0.042	-0.042	-0.042	-0.042
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.20	0.21	0.22	0.23	0.24
		Mz	-3.23	-3.37	-3.50	-3.64	-3.78

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	TB-450-D1	N	0.827	0.827	0.827	0.827	0.827
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.021	0.021	0.021	0.021	0.021
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.10	-0.11	-0.11	-0.11	-0.12
		Mz	0.21	0.22	0.23	0.24	0.25
	TB-450-D2	N	-0.411	-0.411	-0.411	-0.411	-0.411
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.06	0.06	0.07	0.07
		Mz	0.24	0.25	0.26	0.27	0.28
	TB-450-E1	N	0.386	0.386	0.386	0.386	0.386
		Vy	-0.032	-0.032	-0.032	-0.032	-0.032
		Vz	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.05	-0.05	-0.05	-0.06
		Mz	0.16	0.16	0.17	0.18	0.18
	TB-450-E2	N	-0.144	-0.144	-0.144	-0.144	-0.144
		Vy	-0.041	-0.041	-0.041	-0.041	-0.041
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.02	0.02
		Mz	0.20	0.21	0.22	0.22	0.23

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N79/N151	Peso próprio	N	0.178	0.178	0.178	0.178	0.178
		Vy	0.029	0.029	0.029	0.029	0.029
		Vz	0.566	0.992	1.417	1.843	2.269
		Mt	0.00	0.00	0.00	0.00	0.00
		My	37.07	36.90	36.66	36.32	35.90

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	0.16	0.16	0.15	0.15	0.14
	Guarda Corpo	N	-0.246	-0.246	-0.246	-0.246	-0.246
		Vy	-0.047	-0.047	-0.047	-0.047	-0.047
		Vz	0.006	0.006	0.006	0.006	0.006
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.98	25.98	25.98	25.98	25.98
		Mz	-0.27	-0.26	-0.25	-0.24	-0.23
	Laje	N	-3.289	-3.289	-3.289	-3.289	-3.289
		Vy	-0.663	-0.663	-0.663	-0.663	-0.663
		Vz	0.073	4.158	8.244	12.329	16.414
		Mt	0.00	0.00	0.00	0.00	0.00
		My	325.01	324.58	323.30	321.18	318.21
		Mz	-3.80	-3.66	-3.52	-3.39	-3.25
	Pavimentação	N	-1.874	-1.874	-1.874	-1.874	-1.874
		Vy	-0.381	-0.381	-0.381	-0.381	-0.381
		Vz	0.042	2.438	4.835	7.232	9.628
		Mt	0.00	0.00	0.00	0.00	0.00
		My	182.76	182.51	181.76	180.51	178.78
		Mz	-2.18	-2.10	-2.03	-1.95	-1.87
	Recapeamento	N	-0.844	-0.844	-0.844	-0.844	-0.844
		Vy	-0.171	-0.171	-0.171	-0.171	-0.171
		Vz	0.019	1.108	2.198	3.287	4.376
		Mt	0.00	0.00	0.00	0.00	0.00
		My	83.07	82.96	82.62	82.05	81.26
		Mz	-0.98	-0.94	-0.91	-0.87	-0.84
	Vento 0	N	-31.335	-31.335	-31.335	-31.335	-31.335
		Vy	-0.160	-0.160	-0.160	-0.160	-0.160
		Vz	0.790	0.790	0.790	0.790	0.790
		Mt	0.00	0.00	0.00	0.00	0.00
		My	4.52	4.36	4.20	4.03	3.87
		Mz	-0.91	-0.88	-0.85	-0.81	-0.78
	Vento 180	N	41.049	41.049	41.049	41.049	41.049
		Vy	0.026	0.026	0.026	0.026	0.026
		Vz	-0.776	-0.776	-0.776	-0.776	-0.776

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-4.44	-4.28	-4.12	-3.96	-3.80
		Mz	0.15	0.14	0.14	0.13	0.13
	Multidão (Passeio)	N	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.005	0.005	0.005	0.005	0.005
		Vz	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.86	14.86	14.86	14.86
		Mz	0.03	0.03	0.03	0.03	0.03
	Multidão - TB450	N	-2.689	-2.689	-2.689	-2.689	-2.689
		Vy	-0.553	-0.553	-0.553	-0.553	-0.553
		Vz	0.059	3.545	7.031	10.517	14.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	246.81	246.44	245.35	243.54	241.01
		Mz	-3.16	-3.05	-2.94	-2.82	-2.71
	TB-450-A1	N	1.283	1.283	1.283	1.283	1.283
		Vy	0.268	0.268	0.268	0.268	0.268
		Vz	-25.892	-25.892	-25.892	-25.892	-25.892
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.08	153.42	158.76	164.10	169.44
		Mz	1.53	1.48	1.42	1.37	1.31
	TB-450-A2	N	1.124	1.124	1.124	1.124	1.124
		Vy	0.269	0.269	0.269	0.269	0.269
		Vz	25.869	25.869	25.869	25.869	25.869
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.10	142.76	137.43	132.09	126.76
		Mz	1.54	1.48	1.43	1.37	1.32
	TB-450-B1	N	-2.468	-2.468	-2.468	-2.468	-2.468
		Vy	-0.375	-0.375	-0.375	-0.375	-0.375
		Vz	-25.834	-25.834	-25.834	-25.834	-25.834
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.41	153.74	159.07	164.40	169.73
		Mz	-2.15	-2.07	-1.99	-1.92	-1.84
	TB-450-B2	N	-1.115	-1.115	-1.115	-1.115	-1.115

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.369	-0.369	-0.369	-0.369	-0.369
		Vz	25.898	25.898	25.898	25.898	25.898
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.27	142.93	137.58	132.24	126.90
		Mz	-2.12	-2.04	-1.96	-1.89	-1.81
	TB-450-C1	N	-1.975	-1.975	-1.975	-1.975	-1.975
		Vy	-0.653	-0.653	-0.653	-0.653	-0.653
		Vz	0.037	0.037	0.037	0.037	0.037
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.21	0.21	0.20	0.19	0.18
		Mz	-3.74	-3.61	-3.47	-3.34	-3.20
	TB-450-C2	N	-4.169	-4.169	-4.169	-4.169	-4.169
		Vy	-0.681	-0.681	-0.681	-0.681	-0.681
		Vz	0.081	0.081	0.081	0.081	0.081
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.46	0.45	0.43	0.41	0.40
		Mz	-3.90	-3.76	-3.62	-3.48	-3.34
	TB-450-D1	N	-0.643	-0.643	-0.643	-0.643	-0.643
		Vy	0.045	0.045	0.045	0.045	0.045
		Vz	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.07	0.07	0.07	0.06
		Mz	0.26	0.25	0.24	0.23	0.22
	TB-450-D2	N	1.069	1.069	1.069	1.069	1.069
		Vy	0.050	0.050	0.050	0.050	0.050
		Vz	-0.021	-0.021	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.12	-0.11	-0.11	-0.11	-0.10
		Mz	0.28	0.27	0.26	0.25	0.24
	TB-450-E1	N	-0.200	-0.200	-0.200	-0.200	-0.200
		Vy	0.033	0.033	0.033	0.033	0.033
		Vz	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.02	0.02

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	0.19	0.18	0.18	0.17	0.16
	TB-450-E2	N	0.539	0.539	0.539	0.539	0.539
		Vy	0.042	0.042	0.042	0.042	0.042
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.06	-0.06	-0.06	-0.05
		Mz	0.24	0.23	0.22	0.21	0.20

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N151/N150	Peso próprio	N	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	2.269	3.153	4.038	4.480	5.365	6.249	7.134	7.576	8.461
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	35.90	34.73	33.19	32.28	30.17	27.68	24.81	23.24	19.80
		Mz	0.14	0.13	0.12	0.11	0.10	0.09	0.07	0.07	0.05
	Guarda Corpo	N	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246
		Vy	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		Vz	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.98	25.98	25.97	25.97	25.97	25.97	25.96	25.96	25.96
		Mz	-0.23	-0.21	-0.19	-0.18	-0.16	-0.14	-0.12	-0.11	-0.09
	Laje	N	-3.289	-3.289	-3.289	-3.289	-3.289	-3.289	-3.289	-3.289	-3.289
		Vy	-0.663	-0.663	-0.663	-0.663	-0.663	-0.663	-0.663	-0.663	-0.663
		Vz	16.414	24.903	33.391	37.636	46.124	54.613	63.102	67.346	75.835
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	318.21	309.36	296.87	289.26	271.31	249.72	224.50	210.52	179.84
		Mz	-3.25	-2.97	-2.68	-2.54	-2.26	-1.97	-1.69	-1.54	-1.26
	Pavimentação	N	-1.874	-1.874	-1.874	-1.874	-1.874	-1.874	-1.874	-1.874	-1.874
		Vy	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381
		Vz	9.628	14.608	19.588	22.078	27.058	32.038	37.018	39.508	44.488
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	178.78	173.58	166.25	161.79	151.26	138.60	123.80	115.60	97.60
		Mz	-1.87	-1.70	-1.54	-1.46	-1.30	-1.13	-0.97	-0.89	-0.72
	Recapeamento	N	-0.844	-0.844	-0.844	-0.844	-0.844	-0.844	-0.844	-0.844	-0.844
		Vy	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	4.376	6.640	8.904	10.035	12.299	14.563	16.826	17.958	20.222
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	81.26	78.90	75.57	73.54	68.75	63.00	56.27	52.55	44.36
		Mz	-0.84	-0.76	-0.69	-0.65	-0.58	-0.51	-0.43	-0.40	-0.32
	Vento 0	N	-31.335	-31.335	-31.335	-31.335	-31.335	-31.335	-31.335	-31.335	-31.335
		Vy	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160
		Vz	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.87	3.53	3.19	3.02	2.68	2.35	2.01	1.84	1.50
		Mz	-0.78	-0.71	-0.64	-0.61	-0.54	-0.47	-0.41	-0.37	-0.30
	Vento 180	N	41.049	41.049	41.049	41.049	41.049	41.049	41.049	41.049	41.049
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.80	-3.47	-3.14	-2.97	-2.64	-2.31	-1.97	-1.81	-1.48
		Mz	0.13	0.12	0.10	0.10	0.09	0.08	0.07	0.06	0.05
	Multidão (Passeio)	N	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.86	14.86	14.86	14.86	14.86	14.86	14.86	14.86
		Mz	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
	Multidão - TB450	N	-2.689	-2.689	-2.689	-2.689	-2.689	-2.689	-2.689	-2.689	-2.689
		Vy	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553
		Vz	14.003	21.246	28.490	32.112	39.356	46.599	53.843	57.465	64.709
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	241.01	233.46	222.80	216.31	200.99	182.58	161.05	149.13	122.95
		Mz	-2.71	-2.47	-2.23	-2.12	-1.88	-1.64	-1.41	-1.29	-1.05
	TB-450-A1	N	1.283	1.283	1.283	1.283	1.283	1.283	1.283	1.283	1.283
		Vy	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268
		Vz	-25.892	-13.442	-0.992	5.234	17.684	30.134	42.584	48.809	61.259
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	169.44	177.87	180.96	180.51	175.60	165.35	149.77	139.98	116.39
		Mz	1.31	1.20	1.08	1.03	0.91	0.80	0.68	0.62	0.51
	TB-450-A2	N	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124
		Vy	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269
		Vz	25.869	25.869	25.869	25.869	25.869	25.869	25.869	25.869	25.869
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	126.76	115.67	104.58	99.04	87.95	76.87	65.78	60.24	49.15

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	1.32	1.20	1.09	1.03	0.91	0.80	0.68	0.63	0.51
	TB-450-B1	N	-2.468	-2.468	-2.468	-2.468	-2.468	-2.468	-2.468	-2.468	-2.468
		Vy	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375
		Vz	-25.834	-13.384	-0.934	5.291	17.742	30.192	42.642	48.867	61.317
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	169.73	178.13	181.20	180.73	175.80	165.52	149.92	140.11	116.50
		Mz	-1.84	-1.68	-1.52	-1.44	-1.28	-1.11	-0.95	-0.87	-0.71
	TB-450-B2	N	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115
		Vy	-0.369	-0.369	-0.369	-0.369	-0.369	-0.369	-0.369	-0.369	-0.369
		Vz	25.898	25.898	25.898	25.898	25.898	25.898	25.898	25.898	25.898
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	126.90	115.80	104.70	99.15	88.05	76.95	65.86	60.31	49.21
		Mz	-1.81	-1.65	-1.49	-1.41	-1.26	-1.10	-0.94	-0.86	-0.70
	TB-450-C1	N	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975
		Vy	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653
		Vz	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.18	0.17	0.15	0.14	0.13	0.11	0.10	0.09	0.07
		Mz	-3.20	-2.92	-2.64	-2.50	-2.22	-1.94	-1.66	-1.52	-1.24
	TB-450-C2	N	-4.169	-4.169	-4.169	-4.169	-4.169	-4.169	-4.169	-4.169	-4.169
		Vy	-0.681	-0.681	-0.681	-0.681	-0.681	-0.681	-0.681	-0.681	-0.681
		Vz	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.40	0.36	0.33	0.31	0.27	0.24	0.21	0.19	0.15
		Mz	-3.34	-3.04	-2.75	-2.61	-2.32	-2.02	-1.73	-1.59	-1.29
	TB-450-D1	N	-0.643	-0.643	-0.643	-0.643	-0.643	-0.643	-0.643	-0.643	-0.643
		Vy	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02
		Mz	0.22	0.20	0.18	0.17	0.15	0.13	0.11	0.11	0.09
	TB-450-D2	N	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069
		Vy	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
		Vz	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.10	-0.09	-0.08	-0.08	-0.07	-0.06	-0.05	-0.05	-0.04
		Mz	0.24	0.22	0.20	0.19	0.17	0.15	0.13	0.12	0.09
	TB-450-E1	N	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.16	0.15	0.13	0.13	0.11	0.10	0.08	0.08	0.06
	TB-450-E2	N	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539
		Vy	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03	-0.03	-0.02
		Mz	0.20	0.19	0.17	0.16	0.14	0.12	0.11	0.10	0.08

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N150/N149	Peso próprio	N	0.178	0.178	0.178
		Vy	0.029	0.029	0.029
		Vz	8.461	8.874	9.287
		Mt	0.00	0.00	0.00
		My	19.80	18.07	16.25
		Mz	0.05	0.05	0.04
	Guarda Corpo	N	-0.246	-0.246	-0.246
		Vy	-0.047	-0.047	-0.047
		Vz	0.006	7.638	15.270
		Mt	0.00	0.00	0.00
		My	25.96	25.20	22.91
		Mz	-0.09	-0.08	-0.07
	Laje	N	-3.289	-3.289	-3.289
		Vy	-0.663	-0.663	-0.663
		Vz	75.835	79.796	83.758
		Mt	0.00	0.00	0.00
		My	179.84	164.27	147.92
		Mz	-1.26	-1.13	-1.00
	Pavimentação	N	-1.874	-1.874	-1.874
		Vy	-0.381	-0.381	-0.381
		Vz	44.488	44.488	44.488

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mt	0.00	0.00	0.00
		My	97.60	88.70	79.81
		Mz	-0.72	-0.65	-0.57
	Recapeamento	N	-0.844	-0.844	-0.844
		Vy	-0.171	-0.171	-0.171
		Vz	20.222	20.222	20.222
		Mt	0.00	0.00	0.00
		My	44.36	40.32	36.27
		Mz	-0.32	-0.29	-0.26
	Vento 0	N	-31.335	-31.335	-31.335
		Vy	-0.160	-0.160	-0.160
		Vz	0.790	0.790	0.790
		Mt	0.00	0.00	0.00
		My	1.50	1.34	1.18
		Mz	-0.30	-0.27	-0.24
	Vento 180	N	41.049	41.049	41.049
		Vy	0.026	0.026	0.026
		Vz	-0.776	-0.776	-0.776
		Mt	0.00	0.00	0.00
		My	-1.48	-1.32	-1.16
		Mz	0.05	0.04	0.04
	Multidão (Passeio)	N	-0.009	-0.009	-0.009
		Vy	0.005	0.005	0.005
		Vz	0.001	0.001	0.001
		Mt	0.00	0.00	0.00
		My	14.86	14.86	14.86
		Mz	0.01	0.01	0.01
	Multidão - TB450	N	-2.689	-2.689	-2.689
		Vy	-0.553	-0.553	-0.553
		Vz	64.709	64.709	64.709
		Mt	0.00	0.00	0.00
		My	122.95	110.00	97.06
		Mz	-1.05	-0.94	-0.83
	TB-450-A1	N	1.283	1.283	1.283

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vy	0.268	0.268	0.268
		Vz	61.259	61.259	61.259
		Mt	0.00	0.00	0.00
		My	116.39	104.14	91.89
		Mz	0.51	0.46	0.40
	TB-450-A2	N	1.124	1.124	1.124
		Vy	0.269	0.269	0.269
		Vz	25.869	25.869	25.869
		Mt	0.00	0.00	0.00
		My	49.15	43.98	38.80
		Mz	0.51	0.46	0.40
	TB-450-B1	N	-2.468	-2.468	-2.468
		Vy	-0.375	-0.375	-0.375
		Vz	61.317	61.317	61.317
		Mt	0.00	0.00	0.00
		My	116.50	104.24	91.98
		Mz	-0.71	-0.64	-0.56
	TB-450-B2	N	-1.115	-1.115	-1.115
		Vy	-0.369	-0.369	-0.369
		Vz	25.898	25.898	25.898
		Mt	0.00	0.00	0.00
		My	49.21	44.03	38.85
		Mz	-0.70	-0.63	-0.55
	TB-450-C1	N	-1.975	-1.975	-1.975
		Vy	-0.653	-0.653	-0.653
		Vz	0.037	0.037	0.037
		Mt	0.00	0.00	0.00
		My	0.07	0.06	0.06
		Mz	-1.24	-1.11	-0.98
	TB-450-C2	N	-4.169	-4.169	-4.169
		Vy	-0.681	-0.681	-0.681
		Vz	0.081	0.081	0.081
		Mt	0.00	0.00	0.00
		My	0.15	0.14	0.12

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mz	-1.29	-1.16	-1.02
	TB-450-D1	N	-0.643	-0.643	-0.643
		Vy	0.045	0.045	0.045
		Vz	0.013	0.013	0.013
		Mt	0.00	0.00	0.00
		My	0.02	0.02	0.02
		Mz	0.09	0.08	0.07
	TB-450-D2	N	1.069	1.069	1.069
		Vy	0.050	0.050	0.050
		Vz	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03
		Mz	0.09	0.08	0.07
	TB-450-E1	N	-0.200	-0.200	-0.200
		Vy	0.033	0.033	0.033
		Vz	0.004	0.004	0.004
		Mt	0.00	0.00	0.00
		My	0.01	0.01	0.01
		Mz	0.06	0.06	0.05
	TB-450-E2	N	0.539	0.539	0.539
		Vy	0.042	0.042	0.042
		Vz	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02
		Mz	0.08	0.07	0.06

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N149/N8	Peso próprio	N	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	9.287	9.674	10.061	10.448	10.835	11.222	11.609	11.996	12.383
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.25	14.47	12.62	10.70	8.71	6.64	4.50	2.29	0.00

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	Guarda Corpo	N	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246
		Vy	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		Vz	15.270	15.270	15.270	15.270	15.270	15.270	15.270	15.270	15.270
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.91	20.04	17.18	14.32	11.45	8.59	5.73	2.86	0.00
		Mz	-0.07	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	0.00
	Laje	N	-3.289	-3.289	-3.289	-3.289	-3.289	-3.289	-3.289	-3.289	-3.289
		Vy	-0.663	-0.663	-0.663	-0.663	-0.663	-0.663	-0.663	-0.663	-0.663
		Vz	83.758	87.471	91.185	94.899	98.613	102.327	106.040	109.754	113.468
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	147.92	131.87	115.12	97.67	79.53	60.69	41.16	20.93	0.00
		Mz	-1.00	-0.87	-0.75	-0.62	-0.50	-0.37	-0.25	-0.12	0.00
	Pavimentação	N	-1.874	-1.874	-1.874	-1.874	-1.874	-1.874	-1.874	-1.874	-1.874
		Vy	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381
		Vz	44.488	46.667	48.846	51.025	53.203	55.382	57.561	59.740	61.919
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	79.81	71.26	62.30	52.94	43.17	32.99	22.40	11.41	0.00
		Mz	-0.57	-0.50	-0.43	-0.36	-0.29	-0.21	-0.14	-0.07	0.00
	Recapeamento	N	-0.844	-0.844	-0.844	-0.844	-0.844	-0.844	-0.844	-0.844	-0.844
		Vy	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171
		Vz	20.222	21.212	22.203	23.193	24.183	25.174	26.164	27.154	28.145
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.27	32.39	28.32	24.06	19.62	15.00	10.18	5.18	0.00
		Mz	-0.26	-0.22	-0.19	-0.16	-0.13	-0.10	-0.06	-0.03	0.00
	Vento 0	N	-31.335	-31.335	-31.335	-31.335	-31.335	-31.335	-31.335	-31.335	-31.335
		Vy	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160
		Vz	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.18	1.04	0.89	0.74	0.59	0.44	0.30	0.15	0.00
		Mz	-0.24	-0.21	-0.18	-0.15	-0.12	-0.09	-0.06	-0.03	0.00
	Vento 180	N	41.049	41.049	41.049	41.049	41.049	41.049	41.049	41.049	41.049
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.16	-1.02	-0.87	-0.73	-0.58	-0.44	-0.29	-0.15	0.00
		Mz	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
	Multidão (Passeio)	N	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.001	2.477	4.953	7.429	9.904	12.380	14.856	17.332	19.808
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.62	13.93	12.77	11.14	9.05	6.50	3.48	0.00
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.689	-2.689	-2.689	-2.689	-2.689	-2.689	-2.689	-2.689	-2.689
		Vy	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553
		Vz	64.709	64.709	64.709	64.709	64.709	64.709	64.709	64.709	64.709
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.06	84.93	72.80	60.66	48.53	36.40	24.27	12.13	0.00
		Mz	-0.83	-0.73	-0.62	-0.52	-0.41	-0.31	-0.21	-0.10	0.00
	TB-450-A1	N	1.283	1.283	1.283	1.283	1.283	1.283	1.283	1.283	1.283
		Vy	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268
		Vz	61.259	61.259	61.259	61.259	61.259	61.259	61.259	61.259	61.259
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	91.89	80.40	68.92	57.43	45.94	34.46	22.97	11.49	0.00
		Mz	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.05	0.00
	TB-450-A2	N	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124
		Vy	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269
		Vz	25.869	25.869	25.869	25.869	25.869	25.869	25.869	25.869	25.869
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.80	33.95	29.10	24.25	19.40	14.55	9.70	4.85	0.00
		Mz	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.05	0.00
	TB-450-B1	N	-2.468	-2.468	-2.468	-2.468	-2.468	-2.468	-2.468	-2.468	-2.468
		Vy	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375
		Vz	61.317	61.317	61.317	61.317	61.317	61.317	61.317	61.317	61.317
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	91.98	80.48	68.98	57.48	45.99	34.49	22.99	11.50	0.00
		Mz	-0.56	-0.49	-0.42	-0.35	-0.28	-0.21	-0.14	-0.07	0.00
	TB-450-B2	N	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115
		Vy	-0.369	-0.369	-0.369	-0.369	-0.369	-0.369	-0.369	-0.369	-0.369
		Vz	25.898	25.898	25.898	25.898	25.898	25.898	25.898	25.898	25.898
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.85	33.99	29.14	24.28	19.42	14.57	9.71	4.86	0.00
		Mz	-0.55	-0.48	-0.42	-0.35	-0.28	-0.21	-0.14	-0.07	0.00
	TB-450-C1	N	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975	-1.975

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653
		Vz	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00
		Mz	-0.98	-0.86	-0.73	-0.61	-0.49	-0.37	-0.24	-0.12	0.00
	TB-450-C2	N	-4.169	-4.169	-4.169	-4.169	-4.169	-4.169	-4.169	-4.169	-4.169
		Vy	-0.681	-0.681	-0.681	-0.681	-0.681	-0.681	-0.681	-0.681	-0.681
		Vz	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.12	0.11	0.09	0.08	0.06	0.05	0.03	0.02	0.00
		Mz	-1.02	-0.89	-0.77	-0.64	-0.51	-0.38	-0.26	-0.13	0.00
	TB-450-D1	N	-0.643	-0.643	-0.643	-0.643	-0.643	-0.643	-0.643	-0.643	-0.643
		Vy	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
	TB-450-D2	N	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069
		Vy	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
		Vz	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00
		Mz	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-E1	N	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.00
	TB-450-E2	N	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539
		Vy	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	0.06	0.05	0.05	0.04	0.03	0.02	0.02	0.01	0.00

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N25/N140	Peso próprio	N	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930
		Vy	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095
		Vz	-12.378	-11.991	-11.604	-11.217	-10.830	-10.443	-10.056	-9.669	-9.282
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.28	4.50	6.64	8.70	10.70	12.62	14.47	16.25
		Mz	0.00	0.02	0.04	0.05	0.07	0.09	0.11	0.13	0.14
	Guarda Corpo	N	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	-15.262	-15.262	-15.262	-15.262	-15.262	-15.262	-15.262	-15.262	-15.262
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.86	5.72	8.59	11.45	14.31	17.17	20.03	22.89
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05
	Laje	N	6.255	6.255	6.255	6.255	6.255	6.255	6.255	6.255	6.255
		Vy	0.501	0.501	0.501	0.501	0.501	0.501	0.501	0.501	0.501
		Vz	-113.382	-109.668	-105.955	-102.241	-98.527	-94.813	-91.099	-87.386	-83.672
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	20.91	41.13	60.64	79.47	97.59	115.02	131.75	147.79
		Mz	0.00	-0.09	-0.19	-0.28	-0.38	-0.47	-0.56	-0.66	-0.75
	Pavimentação	N	3.550	3.550	3.550	3.550	3.550	3.550	3.550	3.550	3.550
		Vy	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287
		Vz	-61.870	-59.691	-57.513	-55.334	-53.155	-50.976	-48.798	-46.619	-44.440
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.40	22.38	32.96	43.13	52.90	62.25	71.20	79.73
		Mz	0.00	-0.05	-0.11	-0.16	-0.22	-0.27	-0.32	-0.38	-0.43
	Recapeamento	N	1.590	1.590	1.590	1.590	1.590	1.590	1.590	1.590	1.590
		Vy	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129
		Vz	-28.123	-27.132	-26.142	-25.152	-24.161	-23.171	-22.181	-21.190	-20.200
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.18	10.17	14.98	19.61	24.04	28.30	32.36	36.24
		Mz	0.00	-0.02	-0.05	-0.07	-0.10	-0.12	-0.14	-0.17	-0.19
	Vento 0	N	17.519	17.519	17.519	17.519	17.519	17.519	17.519	17.519	17.519
		Vy	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402
		Vz	0.629	0.629	0.629	0.629	0.629	0.629	0.629	0.629	0.629
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.12	-0.24	-0.35	-0.47	-0.59	-0.71	-0.83	-0.94
		Mz	0.00	-0.08	-0.15	-0.23	-0.30	-0.38	-0.45	-0.53	-0.60
	Vento 180	N	-9.197	-9.197	-9.197	-9.197	-9.197	-9.197	-9.197	-9.197	-9.197
		Vy	-0.349	-0.349	-0.349	-0.349	-0.349	-0.349	-0.349	-0.349	-0.349
		Vz	-0.626	-0.626	-0.626	-0.626	-0.626	-0.626	-0.626	-0.626	-0.626
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.00	0.12	0.23	0.35	0.47	0.59	0.70	0.82	0.94
		Mz	0.00	0.07	0.13	0.20	0.26	0.33	0.39	0.46	0.52
	Multidão (Passeio)	N	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-19.803	-17.328	-14.852	-12.376	-9.900	-7.424	-4.948	-2.472	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.48	6.50	9.05	11.14	12.76	13.92	14.62	14.85
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	4.660	4.660	4.660	4.660	4.660	4.660	4.660	4.660	4.660
		Vy	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414
		Vz	-64.645	-64.645	-64.645	-64.645	-64.645	-64.645	-64.645	-64.645	-64.645
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	12.12	24.24	36.36	48.48	60.60	72.73	84.85	96.97
		Mz	0.00	-0.08	-0.16	-0.23	-0.31	-0.39	-0.47	-0.54	-0.62
	TB-450-A1	N	1.303	1.303	1.303	1.303	1.303	1.303	1.303	1.303	1.303
		Vy	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	-0.02	-0.03	-0.05	-0.06	-0.08	-0.09	-0.11	-0.12
	TB-450-A2	N	1.049	1.049	1.049	1.049	1.049	1.049	1.049	1.049	1.049
		Vy	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.03	-0.04	-0.06	-0.07	-0.09	-0.10	-0.12
	TB-450-B1	N	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581
		Vy	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076
		Vz	-51.765	-51.765	-51.765	-51.765	-51.765	-51.765	-51.765	-51.765	-51.765
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	9.71	19.41	29.12	38.82	48.53	58.24	67.94	77.65
		Mz	0.00	-0.01	-0.03	-0.04	-0.06	-0.07	-0.09	-0.10	-0.11
	TB-450-B2	N	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251
		Vy	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Vz	-122.550	-122.550	-122.550	-122.550	-122.550	-122.550	-122.550	-122.550	-122.550
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	22.98	45.96	68.93	91.91	114.89	137.87	160.85	183.83
		Mz	0.00	-0.01	-0.03	-0.04	-0.06	-0.07	-0.09	-0.10	-0.12
	TB-450-C1	N	5.870	5.870	5.870	5.870	5.870	5.870	5.870	5.870	5.870

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.08	-0.16	-0.24	-0.32	-0.40	-0.48	-0.56	-0.64
	TB-450-C2	N	6.304	6.304	6.304	6.304	6.304	6.304	6.304	6.304	6.304
		Vy	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
		Mz	0.00	-0.08	-0.16	-0.24	-0.32	-0.41	-0.49	-0.57	-0.65
	TB-450-D1	N	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681
		Vy	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03
	TB-450-D2	N	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613
		Vy	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05
	TB-450-E1	N	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05
	TB-450-E2	N	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07

Esforços em barras, por hipóteses/ações			
Barra	Hipótese	Esforço	Posições na barra

Adib José Francisco Junior
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			0.000 m	0.200 m	0.400 m
N140/N141	Peso próprio	N	1.930	1.930	1.930
		Vy	-0.095	-0.095	-0.095
		Vz	-9.282	-8.870	-8.457
		Mt	0.00	0.00	0.00
		My	16.25	18.06	19.79
		Mz	0.14	0.16	0.18
	Guarda Corpo	N	0.578	0.578	0.578
		Vy	0.036	0.036	0.036
		Vz	-15.262	-7.630	0.002
		Mt	0.00	0.00	0.00
		My	22.89	25.18	25.95
		Mz	-0.05	-0.06	-0.07
	Laje	N	6.255	6.255	6.255
		Vy	0.501	0.501	0.501
		Vz	-83.672	-79.710	-75.749
		Mt	0.00	0.00	0.00
		My	147.79	164.13	179.67
		Mz	-0.75	-0.85	-0.95
	Pavimentação	N	3.550	3.550	3.550
		Vy	0.287	0.287	0.287
		Vz	-44.440	-44.440	-44.440
		Mt	0.00	0.00	0.00
		My	79.73	88.62	97.51
		Mz	-0.43	-0.49	-0.55
	Recapeamento	N	1.590	1.590	1.590
		Vy	0.129	0.129	0.129
		Vz	-20.200	-20.200	-20.200
		Mt	0.00	0.00	0.00
		My	36.24	40.28	44.32
		Mz	-0.19	-0.22	-0.24
	Vento 0	N	17.519	17.519	17.519
		Vy	0.402	0.402	0.402
		Vz	0.629	0.629	0.629
		Mt	0.00	0.00	0.00
		My	-0.94	-1.07	-1.20
		Mz	-0.60	-0.68	-0.76

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Vento 180	N	-9.197	-9.197	-9.197
		Vy	-0.349	-0.349	-0.349
		Vz	-0.626	-0.626	-0.626
		Mt	0.00	0.00	0.00
		My	0.94	1.06	1.19
		Mz	0.52	0.59	0.66
	Multidão (Passeio)	N	0.333	0.333	0.333
		Vy	-0.002	-0.002	-0.002
		Vz	0.004	0.004	0.004
		Mt	0.00	0.00	0.00
		My	14.85	14.85	14.85
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	4.660	4.660	4.660
		Vy	0.414	0.414	0.414
		Vz	-64.645	-64.645	-64.645
		Mt	0.00	0.00	0.00
		My	96.97	109.90	122.82
		Mz	-0.62	-0.70	-0.79
	TB-450-A1	N	1.303	1.303	1.303
		Vy	0.082	0.082	0.082
		Vz	0.007	0.007	0.007
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	-0.12	-0.14	-0.16
	TB-450-A2	N	1.049	1.049	1.049
		Vy	0.077	0.077	0.077
		Vz	0.003	0.003	0.003
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	-0.12	-0.13	-0.15
	TB-450-B1	N	-1.581	-1.581	-1.581
		Vy	0.076	0.076	0.076
		Vz	-51.765	-51.765	-51.765
		Mt	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	77.65	88.00	98.35
		Mz	-0.11	-0.13	-0.14
	TB-450-B2	N	-1.251	-1.251	-1.251
		Vy	0.078	0.078	0.078
		Vz	-122.550	-122.550	-122.550
		Mt	0.00	0.00	0.00
		My	183.83	208.34	232.85
		Mz	-0.12	-0.13	-0.15
	TB-450-C1	N	5.870	5.870	5.870
		Vy	0.428	0.428	0.428
		Vz	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	-0.64	-0.73	-0.81
	TB-450-C2	N	6.304	6.304	6.304
		Vy	0.433	0.433	0.433
		Vz	0.010	0.010	0.010
		Mt	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02
		Mz	-0.65	-0.74	-0.82
	TB-450-D1	N	0.681	0.681	0.681
		Vy	-0.023	-0.023	-0.023
		Vz	0.017	0.017	0.017
		Mt	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03
		Mz	0.03	0.04	0.04
	TB-450-D2	N	-0.613	-0.613	-0.613
		Vy	-0.034	-0.034	-0.034
		Vz	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00
		My	0.02	0.02	0.02
		Mz	0.05	0.06	0.06
	TB-450-E1	N	0.204	0.204	0.204
		Vy	-0.035	-0.035	-0.035

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.008	0.008	0.008
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	0.05	0.06	0.07
	TB-450-E2	N	-0.295	-0.295	-0.295
		Vy	-0.048	-0.048	-0.048
		Vz	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00
		My	0.01	0.01	0.01
		Mz	0.07	0.08	0.09

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N141/N142	Peso próprio	N	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930
		Vy	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095
		Vz	-8.457	-7.572	-6.688	-6.245	-5.361	-4.476	-3.591	-3.149	-2.265
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.79	23.23	26.28	27.67	30.16	32.26	33.99	34.72	35.88
		Mz	0.18	0.22	0.26	0.28	0.32	0.36	0.41	0.43	0.47
	Guarda Corpo	N	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.95	25.94	25.94	25.94	25.94	25.94	25.94	25.94	25.94
		Mz	-0.07	-0.08	-0.10	-0.11	-0.12	-0.14	-0.15	-0.16	-0.18
	Laje	N	6.255	6.255	6.255	6.255	6.255	6.255	6.255	6.255	6.255
		Vy	0.501	0.501	0.501	0.501	0.501	0.501	0.501	0.501	0.501
		Vz	-75.749	-67.260	-58.772	-54.527	-46.039	-37.550	-29.061	-24.817	-16.328
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	179.67	210.32	237.33	249.47	271.02	288.93	303.20	308.97	317.79
		Mz	-0.95	-1.17	-1.38	-1.49	-1.70	-1.92	-2.13	-2.24	-2.46
	Pavimentação	N	3.550	3.550	3.550	3.550	3.550	3.550	3.550	3.550	3.550
		Vy	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287
		Vz	-44.440	-39.460	-34.480	-31.990	-27.010	-22.030	-17.050	-14.560	-9.580
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.51	115.49	131.33	138.45	151.10	161.60	169.98	173.37	178.54

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	-0.55	-0.67	-0.79	-0.85	-0.98	-1.10	-1.22	-1.28	-1.41
	Recapeamento	N	1.590	1.590	1.590	1.590	1.590	1.590	1.590	1.590	1.590
		Vy	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129
		Vz	-20.200	-17.936	-15.673	-14.541	-12.277	-10.014	-7.750	-6.618	-4.354
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.32	52.49	59.70	62.93	68.68	73.46	77.26	78.80	81.15
		Mz	-0.24	-0.30	-0.35	-0.38	-0.44	-0.49	-0.55	-0.58	-0.63
	Vento 0	N	17.519	17.519	17.519	17.519	17.519	17.519	17.519	17.519	17.519
		Vy	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402
		Vz	0.629	0.629	0.629	0.629	0.629	0.629	0.629	0.629	0.629
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.20	-1.47	-1.74	-1.87	-2.14	-2.41	-2.68	-2.81	-3.08
		Mz	-0.76	-0.94	-1.11	-1.19	-1.37	-1.54	-1.71	-1.80	-1.97
	Vento 180	N	-9.197	-9.197	-9.197	-9.197	-9.197	-9.197	-9.197	-9.197	-9.197
		Vy	-0.349	-0.349	-0.349	-0.349	-0.349	-0.349	-0.349	-0.349	-0.349
		Vz	-0.626	-0.626	-0.626	-0.626	-0.626	-0.626	-0.626	-0.626	-0.626
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.19	1.46	1.73	1.86	2.13	2.40	2.66	2.80	3.07
		Mz	0.66	0.81	0.96	1.04	1.19	1.34	1.48	1.56	1.71
	Multidão (Passeio)	N	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.85	14.85	14.85	14.84	14.84	14.84	14.84	14.84	14.84
		Mz	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Multidão - TB450	N	4.660	4.660	4.660	4.660	4.660	4.660	4.660	4.660	4.660
		Vy	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414
		Vz	-64.645	-57.401	-50.157	-46.535	-39.292	-32.048	-24.804	-21.182	-13.939
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	122.82	148.98	172.03	182.39	200.78	216.06	228.25	233.17	240.70
		Mz	-0.79	-0.96	-1.14	-1.23	-1.41	-1.59	-1.76	-1.85	-2.03
	TB-450-A1	N	1.303	1.303	1.303	1.303	1.303	1.303	1.303	1.303	1.303
		Vy	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.04
		Mz	-0.16	-0.19	-0.23	-0.24	-0.28	-0.31	-0.35	-0.37	-0.40
	TB-450-A2	N	1.049	1.049	1.049	1.049	1.049	1.049	1.049	1.049	1.049
		Vy	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.15	-0.18	-0.21	-0.23	-0.26	-0.30	-0.33	-0.35	-0.38
	TB-450-B1	N	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581	-1.581
		Vy	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076
		Vz	-51.765	-51.765	-51.765	-51.765	-51.765	-51.765	-51.765	-51.765	-51.765
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	98.35	120.54	142.72	153.82	176.00	198.19	220.37	231.47	253.65
		Mz	-0.14	-0.18	-0.21	-0.23	-0.26	-0.29	-0.32	-0.34	-0.37
	TB-450-B2	N	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251	-1.251
		Vy	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Vz	-122.550	-97.650	-72.750	-60.300	-35.399	-10.499	14.401	26.851	51.751
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	232.85	280.03	316.54	330.80	351.31	361.14	360.31	355.89	339.04
		Mz	-0.15	-0.18	-0.22	-0.23	-0.27	-0.30	-0.33	-0.35	-0.38
	TB-450-C1	N	5.870	5.870	5.870	5.870	5.870	5.870	5.870	5.870	5.870
		Vy	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.81	-1.00	-1.18	-1.27	-1.46	-1.64	-1.82	-1.92	-2.10
	TB-450-C2	N	6.304	6.304	6.304	6.304	6.304	6.304	6.304	6.304	6.304
		Vy	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05
		Mz	-0.82	-1.01	-1.19	-1.29	-1.47	-1.66	-1.84	-1.94	-2.12
	TB-450-D1	N	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681
		Vy	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.04	-0.05	-0.05	-0.06	-0.07	-0.07	-0.08	-0.08
		Mz	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.11
	TB-450-D2	N	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613
		Vy	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.06	0.08	0.09	0.10	0.12	0.13	0.15	0.15	0.17
	TB-450-E1	N	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.04
		Mz	0.07	0.08	0.10	0.11	0.12	0.14	0.15	0.16	0.17
	TB-450-E2	N	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295	-0.295
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
		Mz	0.09	0.11	0.13	0.14	0.16	0.18	0.20	0.22	0.24

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
N142/N80	Peso próprio	N	1.930	1.930	1.930	1.930	1.930
		Vy	-0.095	-0.095	-0.095	-0.095	-0.095
		Vz	-2.265	-1.839	-1.413	-0.987	-0.562
		Mt	0.00	0.00	0.00	0.00	0.00
		My	35.88	36.30	36.63	36.88	37.04
		Mz	0.47	0.49	0.51	0.53	0.55
	Guarda Corpo	N	0.578	0.578	0.578	0.578	0.578
		Vy	0.036	0.036	0.036	0.036	0.036
		Vz	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.94	25.94	25.94	25.94	25.94
		Mz	-0.18	-0.19	-0.19	-0.20	-0.21
	Laje	N	6.255	6.255	6.255	6.255	6.255
		Vy	0.501	0.501	0.501	0.501	0.501
		Vz	-16.328	-12.243	-8.158	-4.073	0.013
		Mt	0.00	0.00	0.00	0.00	0.00
		My	317.79	320.74	322.84	324.10	324.52
		Mz	-2.46	-2.56	-2.66	-2.77	-2.87

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
	Pavimentação	N	3.550	3.550	3.550	3.550	3.550
		Vy	0.287	0.287	0.287	0.287	0.287
		Vz	-9.580	-7.183	-4.787	-2.390	0.007
		Mt	0.00	0.00	0.00	0.00	0.00
		My	178.54	180.27	181.50	182.24	182.49
		Mz	-1.41	-1.47	-1.52	-1.58	-1.64
	Recapeamento	N	1.590	1.590	1.590	1.590	1.590
		Vy	0.129	0.129	0.129	0.129	0.129
		Vz	-4.354	-3.265	-2.176	-1.086	0.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	81.15	81.94	82.50	82.84	82.95
		Mz	-0.63	-0.66	-0.68	-0.71	-0.74
	Vento 0	N	17.519	17.519	17.519	17.519	17.519
		Vy	0.402	0.402	0.402	0.402	0.402
		Vz	0.629	0.629	0.629	0.629	0.629
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.08	-3.21	-3.34	-3.47	-3.60
		Mz	-1.97	-2.05	-2.14	-2.22	-2.30
	Vento 180	N	-9.197	-9.197	-9.197	-9.197	-9.197
		Vy	-0.349	-0.349	-0.349	-0.349	-0.349
		Vz	-0.626	-0.626	-0.626	-0.626	-0.626
		Mt	0.00	0.00	0.00	0.00	0.00
		My	3.07	3.20	3.32	3.45	3.58
		Mz	1.71	1.78	1.85	1.92	2.00
	Multidão (Passeio)	N	0.333	0.333	0.333	0.333	0.333
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.84	14.84	14.84	14.84	14.84
		Mz	0.01	0.01	0.01	0.01	0.01
	Multidão - TB450	N	4.660	4.660	4.660	4.660	4.660
		Vy	0.414	0.414	0.414	0.414	0.414
		Vz	-13.939	-10.453	-6.967	-3.481	0.005
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
		My	240.70	243.22	245.01	246.09	246.45
		Mz	-2.03	-2.12	-2.20	-2.29	-2.37
	TB-450-A1	N	1.303	1.303	1.303	1.303	1.303
		Vy	0.082	0.082	0.082	0.082	0.082
		Vz	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.04
		Mz	-0.40	-0.42	-0.43	-0.45	-0.47
	TB-450-A2	N	1.049	1.049	1.049	1.049	1.049
		Vy	0.077	0.077	0.077	0.077	0.077
		Vz	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.38	-0.39	-0.41	-0.43	-0.44
	TB-450-B1	N	-1.581	-1.581	-1.581	-1.581	-1.581
		Vy	0.076	0.076	0.076	0.076	0.076
		Vz	-51.765	-51.765	-51.765	-51.765	-51.765
		Mt	0.00	0.00	0.00	0.00	0.00
		My	253.65	264.33	275.00	285.68	296.36
		Mz	-0.37	-0.39	-0.40	-0.42	-0.43
	TB-450-B2	N	-1.251	-1.251	-1.251	-1.251	-1.251
		Vy	0.078	0.078	0.078	0.078	0.078
		Vz	51.751	51.751	51.751	51.751	51.751
		Mt	0.00	0.00	0.00	0.00	0.00
		My	339.04	328.37	317.70	307.02	296.35
		Mz	-0.38	-0.40	-0.42	-0.43	-0.45
	TB-450-C1	N	5.870	5.870	5.870	5.870	5.870
		Vy	0.428	0.428	0.428	0.428	0.428
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	-2.10	-2.19	-2.28	-2.36	-2.45
	TB-450-C2	N	6.304	6.304	6.304	6.304	6.304
		Vy	0.433	0.433	0.433	0.433	0.433

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
		Vz	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.05	-0.05	-0.06	-0.06
		Mz	-2.12	-2.21	-2.30	-2.39	-2.48
	TB-450-D1	N	0.681	0.681	0.681	0.681	0.681
		Vy	-0.023	-0.023	-0.023	-0.023	-0.023
		Vz	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.09	-0.09	-0.09	-0.10
		Mz	0.11	0.12	0.12	0.13	0.13
	TB-450-D2	N	-0.613	-0.613	-0.613	-0.613	-0.613
		Vy	-0.034	-0.034	-0.034	-0.034	-0.034
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.06	0.07	0.07	0.07
		Mz	0.17	0.17	0.18	0.19	0.20
	TB-450-E1	N	0.204	0.204	0.204	0.204	0.204
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.04
		Mz	0.17	0.18	0.19	0.20	0.20
	TB-450-E2	N	-0.295	-0.295	-0.295	-0.295	-0.295
		Vy	-0.048	-0.048	-0.048	-0.048	-0.048
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.02	0.03
		Mz	0.24	0.25	0.26	0.27	0.28

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N80/N145	Peso próprio	N	1.963	1.963	1.963	1.963	1.963

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	0.100	0.100	0.100	0.100	0.100
		Vz	0.561	0.986	1.412	1.838	2.264
		Mt	0.00	0.00	0.00	0.00	0.00
		My	37.04	36.88	36.63	36.29	35.87
		Mz	0.58	0.55	0.53	0.51	0.49
	Guarda Corpo	N	0.066	0.066	0.066	0.066	0.066
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	0.009	0.009	0.009	0.009	0.009
		Mt	0.00	0.00	0.00	0.00	0.00
		My	26.00	26.00	26.00	26.00	25.99
		Mz	-0.21	-0.21	-0.20	-0.19	-0.18
	Laje	N	0.714	0.714	0.714	0.714	0.714
		Vy	-0.516	-0.516	-0.516	-0.516	-0.516
		Vz	0.105	4.191	8.276	12.361	16.446
		Mt	0.00	0.00	0.00	0.00	0.00
		My	325.20	324.75	323.47	321.34	318.37
		Mz	-2.95	-2.85	-2.74	-2.63	-2.53
	Pavimentação	N	0.420	0.420	0.420	0.420	0.420
		Vy	-0.296	-0.296	-0.296	-0.296	-0.296
		Vz	0.060	2.457	4.853	7.250	9.646
		Mt	0.00	0.00	0.00	0.00	0.00
		My	182.87	182.61	181.86	180.61	178.87
		Mz	-1.69	-1.63	-1.57	-1.51	-1.45
	Recapeamento	N	0.182	0.182	0.182	0.182	0.182
		Vy	-0.133	-0.133	-0.133	-0.133	-0.133
		Vz	0.027	1.116	2.206	3.295	4.384
		Mt	0.00	0.00	0.00	0.00	0.00
		My	83.12	83.00	82.66	82.09	81.30
		Mz	-0.76	-0.73	-0.70	-0.68	-0.65
	Vento 0	N	-42.005	-42.005	-42.005	-42.005	-42.005
		Vy	-0.394	-0.394	-0.394	-0.394	-0.394
		Vz	0.702	0.702	0.702	0.702	0.702
		Mt	0.00	0.00	0.00	0.00	0.00
		My	4.02	3.87	3.73	3.58	3.44

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	-2.25	-2.17	-2.09	-2.01	-1.93
	Vento 180	N	49.530	49.530	49.530	49.530	49.530
		Vy	0.339	0.339	0.339	0.339	0.339
		Vz	-0.688	-0.688	-0.688	-0.688	-0.688
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.94	-3.80	-3.66	-3.52	-3.37
		Mz	1.94	1.87	1.80	1.73	1.66
	Multidão (Passeio)	N	0.037	0.037	0.037	0.037	0.037
		Vy	0.002	0.002	0.002	0.002	0.002
		Vz	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.87	14.87	14.87	14.87	14.87
		Mz	0.01	0.01	0.01	0.01	0.01
	Multidão - TB450	N	0.535	0.535	0.535	0.535	0.535
		Vy	-0.427	-0.427	-0.427	-0.427	-0.427
		Vz	0.082	3.568	7.054	10.540	14.026
		Mt	0.00	0.00	0.00	0.00	0.00
		My	246.95	246.57	245.48	243.66	241.13
		Mz	-2.44	-2.36	-2.27	-2.18	-2.09
	TB-450-A1	N	-0.082	-0.082	-0.082	-0.082	-0.082
		Vy	-0.084	-0.084	-0.084	-0.084	-0.084
		Vz	0.023	0.023	0.023	0.023	0.023
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.12	0.12	0.12	0.11
		Mz	-0.48	-0.46	-0.45	-0.43	-0.41
	TB-450-A2	N	0.140	0.140	0.140	0.140	0.140
		Vy	-0.079	-0.079	-0.079	-0.079	-0.079
		Vz	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.10	0.09	0.09	0.09	0.08
		Mz	-0.45	-0.44	-0.42	-0.41	-0.39
	TB-450-B1	N	-1.556	-1.556	-1.556	-1.556	-1.556
		Vy	-0.078	-0.078	-0.078	-0.078	-0.078
		Vz	-51.751	-51.751	-51.751	-51.751	-51.751

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	296.35	307.02	317.70	328.37	339.04
		Mz	-0.45	-0.43	-0.42	-0.40	-0.38
	TB-450-B2	N	-1.376	-1.376	-1.376	-1.376	-1.376
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	51.766	51.766	51.766	51.766	51.766
		Mt	0.00	0.00	0.00	0.00	0.00
		My	296.36	285.68	275.01	264.33	253.65
		Mz	-0.46	-0.45	-0.43	-0.41	-0.40
	TB-450-C1	N	2.140	2.140	2.140	2.140	2.140
		Vy	-0.441	-0.441	-0.441	-0.441	-0.441
		Vz	0.079	0.079	0.079	0.079	0.079
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.45	0.44	0.42	0.40	0.39
		Mz	-2.53	-2.44	-2.34	-2.25	-2.16
	TB-450-C2	N	1.581	1.581	1.581	1.581	1.581
		Vy	-0.446	-0.446	-0.446	-0.446	-0.446
		Vz	0.090	0.090	0.090	0.090	0.090
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.52	0.50	0.48	0.46	0.44
		Mz	-2.55	-2.46	-2.37	-2.28	-2.19
	TB-450-D1	N	-0.641	-0.641	-0.641	-0.641	-0.641
		Vy	0.024	0.024	0.024	0.024	0.024
		Vz	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.07	0.07	0.07	0.06
		Mz	0.14	0.13	0.13	0.12	0.12
	TB-450-D2	N	0.782	0.782	0.782	0.782	0.782
		Vy	0.035	0.035	0.035	0.035	0.035
		Vz	-0.019	-0.019	-0.019	-0.019	-0.019
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.11	-0.10	-0.10	-0.09	-0.09
		Mz	0.20	0.19	0.18	0.18	0.17
	TB-450-E1	N	-0.176	-0.176	-0.176	-0.176	-0.176

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	0.037	0.037	0.037	0.037	0.037
		Vz	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01
		Mz	0.21	0.20	0.20	0.19	0.18
	TB-450-E2	N	0.528	0.528	0.528	0.528	0.528
		Vy	0.049	0.049	0.049	0.049	0.049
		Vz	-0.013	-0.013	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.07	-0.07	-0.07	-0.07
		Mz	0.28	0.27	0.26	0.25	0.24

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N145/N144	Peso próprio	N	1.963	1.963	1.963	1.963	1.963	1.963	1.963	1.963	1.963
		Vy	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
		Vz	2.264	3.148	4.033	4.475	5.360	6.244	7.129	7.571	8.456
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	35.87	34.71	33.17	32.26	30.15	27.67	24.80	23.23	19.79
		Mz	0.49	0.45	0.41	0.38	0.34	0.30	0.26	0.23	0.19
	Guarda Corpo	N	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.99	25.99	25.99	25.98	25.98	25.98	25.97	25.97	25.97
		Mz	-0.18	-0.17	-0.15	-0.14	-0.13	-0.11	-0.09	-0.09	-0.07
	Laje	N	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714
		Vy	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516
		Vz	16.446	24.935	33.424	37.668	46.157	54.645	63.134	67.378	75.867
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	318.37	309.50	297.00	289.38	271.42	249.82	224.58	210.59	179.90
		Mz	-2.53	-2.31	-2.09	-1.98	-1.75	-1.53	-1.31	-1.20	-0.98
	Pavimentação	N	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420
		Vy	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296
		Vz	9.646	14.627	19.607	22.097	27.077	32.057	37.037	39.527	44.507
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	178.87	173.66	166.33	161.86	151.32	138.65	123.85	115.64	97.64
		Mz	-1.45	-1.32	-1.19	-1.13	-1.00	-0.88	-0.75	-0.69	-0.56
	Recapeamento	N	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182
		Vy	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
		Vz	4.384	6.648	8.912	10.044	12.307	14.571	16.835	17.966	20.230
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	81.30	78.94	75.60	73.57	68.78	63.02	56.29	52.56	44.38
		Mz	-0.65	-0.59	-0.54	-0.51	-0.45	-0.39	-0.34	-0.31	-0.25
	Vento 0	N	-42.005	-42.005	-42.005	-42.005	-42.005	-42.005	-42.005	-42.005	-42.005
		Vy	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394
		Vz	0.702	0.702	0.702	0.702	0.702	0.702	0.702	0.702	0.702
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.44	3.14	2.84	2.69	2.39	2.09	1.79	1.63	1.33
		Mz	-1.93	-1.76	-1.59	-1.51	-1.34	-1.17	-1.00	-0.92	-0.75
	Vento 180	N	49.530	49.530	49.530	49.530	49.530	49.530	49.530	49.530	49.530
		Vy	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339
		Vz	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.37	-3.08	-2.78	-2.64	-2.34	-2.05	-1.75	-1.60	-1.31
		Mz	1.66	1.52	1.37	1.30	1.15	1.01	0.86	0.79	0.64
	Multidão (Passeio)	N	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.87	14.87	14.87	14.87	14.87	14.86	14.86	14.86	14.86
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
	Multidão - TB450	N	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
		Vy	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
		Vz	14.026	21.270	28.514	32.135	39.379	46.623	53.866	57.488	64.732
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	241.13	233.56	222.90	216.40	201.07	182.65	161.11	149.18	122.99
		Mz	-2.09	-1.91	-1.73	-1.63	-1.45	-1.27	-1.09	-0.99	-0.81
	TB-450-A1	N	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vy	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vz	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.11	0.10	0.09	0.09	0.08	0.07	0.06	0.05	0.04
		Mz	-0.41	-0.38	-0.34	-0.32	-0.29	-0.25	-0.21	-0.20	-0.16
	TB-450-A2	N	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.08	0.08	0.07	0.06	0.06	0.05	0.04	0.04	0.03
		Mz	-0.39	-0.36	-0.32	-0.30	-0.27	-0.24	-0.20	-0.18	-0.15
	TB-450-B1	N	-1.556	-1.556	-1.556	-1.556	-1.556	-1.556	-1.556	-1.556	-1.556
		Vy	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078
		Vz	-51.751	-26.851	-1.951	10.499	35.399	60.299	85.200	97.650	122.550
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	339.04	355.89	362.06	361.14	351.31	330.80	299.62	280.03	232.84
		Mz	-0.38	-0.35	-0.32	-0.30	-0.27	-0.23	-0.20	-0.18	-0.15
	TB-450-B2	N	-1.376	-1.376	-1.376	-1.376	-1.376	-1.376	-1.376	-1.376	-1.376
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	51.766	51.766	51.766	51.766	51.766	51.766	51.766	51.766	51.766
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	253.65	231.47	209.28	198.19	176.00	153.82	131.63	120.54	98.35
		Mz	-0.40	-0.36	-0.33	-0.31	-0.28	-0.24	-0.21	-0.19	-0.15
	TB-450-C1	N	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140
		Vy	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441
		Vz	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.39	0.35	0.32	0.30	0.27	0.23	0.20	0.18	0.15
		Mz	-2.16	-1.97	-1.78	-1.69	-1.50	-1.31	-1.12	-1.03	-0.84
	TB-450-C2	N	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581
		Vy	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446
		Vz	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.44	0.40	0.37	0.35	0.31	0.27	0.23	0.21	0.17
		Mz	-2.19	-1.99	-1.80	-1.71	-1.52	-1.33	-1.13	-1.04	-0.85
	TB-450-D1	N	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02
		Mz	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05
	TB-450-D2	N	0.782	0.782	0.782	0.782	0.782	0.782	0.782	0.782	0.782
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	-0.09	-0.08	-0.08	-0.07	-0.06	-0.06	-0.05	-0.04	-0.04
		Mz	0.17	0.16	0.14	0.13	0.12	0.10	0.09	0.08	0.07
	TB-450-E1	N	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.18	0.16	0.15	0.14	0.12	0.11	0.09	0.09	0.07
	TB-450-E2	N	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528
		Vy	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
		Vz	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.06	-0.05	-0.05	-0.05	-0.04	-0.03	-0.03	-0.03
		Mz	0.24	0.22	0.20	0.19	0.17	0.15	0.13	0.12	0.09

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N144/N143	Peso próprio	N	1.963	1.963	1.963
		Vy	0.100	0.100	0.100
		Vz	8.456	8.869	9.281
		Mt	0.00	0.00	0.00
		My	19.79	18.06	16.24
		Mz	0.19	0.17	0.15
	Guarda Corpo	N	0.066	0.066	0.066
		Vy	-0.037	-0.037	-0.037
		Vz	0.009	7.641	15.273
		Mt	0.00	0.00	0.00
		My	25.97	25.20	22.91
		Mz	-0.07	-0.06	-0.06
	Laje	N	0.714	0.714	0.714
		Vy	-0.516	-0.516	-0.516
		Vz	75.867	79.828	83.790
		Mt	0.00	0.00	0.00
		My	179.90	164.33	147.97
		Mz	-0.98	-0.88	-0.77

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Pavimentação	N	0.420	0.420	0.420
		Vy	-0.296	-0.296	-0.296
		Vz	44.507	44.507	44.507
		Mt	0.00	0.00	0.00
		My	97.64	88.73	79.83
		Mz	-0.56	-0.50	-0.44
	Recapeamento	N	0.182	0.182	0.182
		Vy	-0.133	-0.133	-0.133
		Vz	20.230	20.230	20.230
		Mt	0.00	0.00	0.00
		My	44.38	40.33	36.29
		Mz	-0.25	-0.23	-0.20
	Vento 0	N	-42.005	-42.005	-42.005
		Vy	-0.394	-0.394	-0.394
		Vz	0.702	0.702	0.702
		Mt	0.00	0.00	0.00
		My	1.33	1.19	1.05
		Mz	-0.75	-0.67	-0.59
	Vento 180	N	49.530	49.530	49.530
		Vy	0.339	0.339	0.339
		Vz	-0.688	-0.688	-0.688
		Mt	0.00	0.00	0.00
		My	-1.31	-1.17	-1.03
		Mz	0.64	0.58	0.51
	Multidão (Passeio)	N	0.037	0.037	0.037
		Vy	0.002	0.002	0.002
		Vz	0.003	0.003	0.003
		Mt	0.00	0.00	0.00
		My	14.86	14.86	14.86
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	0.535	0.535	0.535
		Vy	-0.427	-0.427	-0.427
		Vz	64.732	64.732	64.732
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	122.99	110.04	97.10
		Mz	-0.81	-0.73	-0.64
	TB-450-A1	N	-0.082	-0.082	-0.082
		Vy	-0.084	-0.084	-0.084
		Vz	0.023	0.023	0.023
		Mt	0.00	0.00	0.00
		My	0.04	0.04	0.03
		Mz	-0.16	-0.14	-0.13
	TB-450-A2	N	0.140	0.140	0.140
		Vy	-0.079	-0.079	-0.079
		Vz	0.017	0.017	0.017
		Mt	0.00	0.00	0.00
		My	0.03	0.03	0.03
		Mz	-0.15	-0.14	-0.12
	TB-450-B1	N	-1.556	-1.556	-1.556
		Vy	-0.078	-0.078	-0.078
		Vz	122.550	122.550	122.550
		Mt	0.00	0.00	0.00
		My	232.84	208.33	183.82
		Mz	-0.15	-0.13	-0.12
	TB-450-B2	N	-1.376	-1.376	-1.376
		Vy	-0.081	-0.081	-0.081
		Vz	51.766	51.766	51.766
		Mt	0.00	0.00	0.00
		My	98.35	88.00	77.65
		Mz	-0.15	-0.14	-0.12
	TB-450-C1	N	2.140	2.140	2.140
		Vy	-0.441	-0.441	-0.441
		Vz	0.079	0.079	0.079
		Mt	0.00	0.00	0.00
		My	0.15	0.13	0.12
		Mz	-0.84	-0.75	-0.66
	TB-450-C2	N	1.581	1.581	1.581
		Vy	-0.446	-0.446	-0.446

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.090	0.090	0.090
		Mt	0.00	0.00	0.00
		My	0.17	0.15	0.14
		Mz	-0.85	-0.76	-0.67
	TB-450-D1	N	-0.641	-0.641	-0.641
		Vy	0.024	0.024	0.024
		Vz	0.013	0.013	0.013
		Mt	0.00	0.00	0.00
		My	0.02	0.02	0.02
		Mz	0.05	0.04	0.04
	TB-450-D2	N	0.782	0.782	0.782
		Vy	0.035	0.035	0.035
		Vz	-0.019	-0.019	-0.019
		Mt	0.00	0.00	0.00
		My	-0.04	-0.03	-0.03
		Mz	0.07	0.06	0.05
	TB-450-E1	N	-0.176	-0.176	-0.176
		Vy	0.037	0.037	0.037
		Vz	0.001	0.001	0.001
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.07	0.06	0.06
	TB-450-E2	N	0.528	0.528	0.528
		Vy	0.049	0.049	0.049
		Vz	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02
		Mz	0.09	0.08	0.07

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N143/N37	Peso próprio	N	1.963	1.963	1.963	1.963	1.963	1.963	1.963	1.963	1.963
		Vy	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	9.281	9.668	10.055	10.442	10.829	11.217	11.604	11.991	12.378
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.24	14.47	12.62	10.70	8.70	6.64	4.50	2.28	0.00
		Mz	0.15	0.13	0.11	0.09	0.08	0.06	0.04	0.02	0.00
	Guarda Corpo	N	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	15.273	15.273	15.273	15.273	15.273	15.273	15.273	15.273	15.273
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.91	20.05	17.18	14.32	11.46	8.59	5.73	2.86	0.00
		Mz	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
	Laje	N	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714
		Vy	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516	-0.516
		Vz	83.790	87.504	91.217	94.931	98.645	102.359	106.073	109.786	113.500
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	147.97	131.91	115.15	97.70	79.55	60.71	41.17	20.93	0.00
		Mz	-0.77	-0.68	-0.58	-0.48	-0.39	-0.29	-0.19	-0.10	0.00
	Pavimentação	N	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420
		Vy	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296
		Vz	44.507	46.685	48.864	51.043	53.222	55.401	57.579	59.758	61.937
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	79.83	71.28	62.33	52.96	43.18	33.00	22.41	11.41	0.00
		Mz	-0.44	-0.39	-0.33	-0.28	-0.22	-0.17	-0.11	-0.06	0.00
	Recapeamento	N	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182
		Vy	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
		Vz	20.230	21.220	22.211	23.201	24.191	25.182	26.172	27.162	28.153
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.29	32.40	28.33	24.07	19.63	15.00	10.19	5.19	0.00
		Mz	-0.20	-0.17	-0.15	-0.12	-0.10	-0.07	-0.05	-0.02	0.00
	Vento 0	N	-42.005	-42.005	-42.005	-42.005	-42.005	-42.005	-42.005	-42.005	-42.005
		Vy	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394
		Vz	0.702	0.702	0.702	0.702	0.702	0.702	0.702	0.702	0.702
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.05	0.92	0.79	0.66	0.53	0.39	0.26	0.13	0.00
		Mz	-0.59	-0.52	-0.44	-0.37	-0.30	-0.22	-0.15	-0.07	0.00
	Vento 180	N	49.530	49.530	49.530	49.530	49.530	49.530	49.530	49.530	49.530
		Vy	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339
		Vz	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688	-0.688
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.03	-0.90	-0.77	-0.65	-0.52	-0.39	-0.26	-0.13	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.51	0.44	0.38	0.32	0.25	0.19	0.13	0.06	0.00
	Multidão (Passeio)	N	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.003	2.479	4.955	7.431	9.907	12.383	14.858	17.334	19.810
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.63	13.93	12.77	11.14	9.05	6.50	3.48	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
		Vy	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
		Vz	64.732	64.732	64.732	64.732	64.732	64.732	64.732	64.732	64.732
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.10	84.96	72.82	60.69	48.55	36.41	24.27	12.14	0.00
		Mz	-0.64	-0.56	-0.48	-0.40	-0.32	-0.24	-0.16	-0.08	0.00
	TB-450-A1	N	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vy	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vz	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
		Mz	-0.13	-0.11	-0.09	-0.08	-0.06	-0.05	-0.03	-0.02	0.00
	TB-450-A2	N	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
		Vy	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00
		Mz	-0.12	-0.10	-0.09	-0.07	-0.06	-0.04	-0.03	-0.01	0.00
	TB-450-B1	N	-1.556	-1.556	-1.556	-1.556	-1.556	-1.556	-1.556	-1.556	-1.556
		Vy	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078	-0.078
		Vz	122.550	122.550	122.550	122.550	122.550	122.550	122.550	122.550	122.550
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	183.82	160.85	137.87	114.89	91.91	68.93	45.96	22.98	0.00
		Mz	-0.12	-0.10	-0.09	-0.07	-0.06	-0.04	-0.03	-0.01	0.00
	TB-450-B2	N	-1.376	-1.376	-1.376	-1.376	-1.376	-1.376	-1.376	-1.376	-1.376
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	51.766	51.766	51.766	51.766	51.766	51.766	51.766	51.766	51.766
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	77.65	67.94	58.24	48.53	38.82	29.12	19.41	9.71	0.00
		Mz	-0.12	-0.11	-0.09	-0.08	-0.06	-0.05	-0.03	-0.02	0.00
	TB-450-C1	N	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140
		Vy	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.00
		Mz	-0.66	-0.58	-0.50	-0.41	-0.33	-0.25	-0.17	-0.08	0.00
	TB-450-C2	N	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581	1.581
		Vy	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446	-0.446
		Vz	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.14	0.12	0.10	0.08	0.07	0.05	0.03	0.02	0.00
		Mz	-0.67	-0.59	-0.50	-0.42	-0.33	-0.25	-0.17	-0.08	0.00
	TB-450-D1	N	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
	TB-450-D2	N	0.782	0.782	0.782	0.782	0.782	0.782	0.782	0.782	0.782
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.00
	TB-450-E1	N	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.00
	TB-450-E2	N	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528
		Vy	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
		Vz	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	0.07	0.06	0.06	0.05	0.04	0.03	0.02	0.01	0.00

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N3/N134	Peso próprio	N	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-12.178	-11.791	-11.404	-11.017	-10.630	-10.243	-9.856	-9.469	-9.082
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.25	4.42	6.52	8.55	10.51	12.39	14.21	15.95
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.06
	Guarda Corpo	N	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-15.204	-15.204	-15.204	-15.204	-15.204	-15.204	-15.204	-15.204	-15.204
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.85	5.70	8.55	11.40	14.25	17.11	19.96	22.81
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-14.368	-14.368	-14.368	-14.368	-14.368	-14.368	-14.368	-14.368	-14.368
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	-112.652	-108.945	-105.239	-101.532	-97.826	-94.119	-90.413	-86.707	-83.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	20.77	40.85	60.24	78.93	96.92	114.22	130.83	146.74
		Mz	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07
	Pavimentação	N	-7.773	-7.773	-7.773	-7.773	-7.773	-7.773	-7.773	-7.773	-7.773
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-62.056	-59.882	-57.707	-55.533	-53.358	-51.184	-49.010	-46.835	-44.661
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.43	22.46	33.07	43.28	53.08	62.47	71.46	80.04
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
	Recapeamento	N	-3.540	-3.540	-3.540	-3.540	-3.540	-3.540	-3.540	-3.540	-3.540
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	-27.957	-26.969	-25.980	-24.992	-24.003	-23.015	-22.027	-21.038	-20.050
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.15	10.11	14.89	19.49	23.89	28.12	32.15	36.01
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
	Vento 0	N	-6.540	-6.540	-6.540	-6.540	-6.540	-6.540	-6.540	-6.540	-6.540
		Vy	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065
		Vz	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.12	-0.24	-0.36	-0.48	-0.60	-0.71	-0.83	-0.95
		Mz	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.08	0.10
	Vento 180	N	12.211	12.211	12.211	12.211	12.211	12.211	12.211	12.211	12.211
		Vy	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
		Vz	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.00	0.10	0.21	0.31	0.41	0.52	0.62	0.73	0.83
		Mz	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08
	Multidão (Passeio)	N	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-19.775	-17.304	-14.833	-12.362	-9.892	-7.421	-4.950	-2.479	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.48	6.49	9.04	11.13	12.75	13.91	14.60	14.84
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.485	-7.485	-7.485	-7.485	-7.485	-7.485	-7.485	-7.485	-7.485
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	-64.150	-64.150	-64.150	-64.150	-64.150	-64.150	-64.150	-64.150	-64.150
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	12.03	24.06	36.08	48.11	60.14	72.17	84.20	96.22
		Mz	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06
	TB-450-A1	N	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.04	0.07	0.11	0.15	0.19	0.22	0.26	0.30
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03
	TB-450-A2	N	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.04	0.07	0.11	0.15	0.19	0.22	0.26	0.30
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03
	TB-450-B1	N	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984
		Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vz	-25.586	-25.586	-25.586	-25.586	-25.586	-25.586	-25.586	-25.586	-25.586
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.80	9.59	14.39	19.19	23.99	28.78	33.58	38.38
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	TB-450-B2	N	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-60.993	-60.993	-60.993	-60.993	-60.993	-60.993	-60.993	-60.993	-60.993
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.44	22.87	34.31	45.74	57.18	68.62	80.05	91.49
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	TB-450-C1	N	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	-60.607	-60.607	-60.607	-60.607	-60.607	-60.607	-60.607	-60.607	-60.607
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.36	22.73	34.09	45.46	56.82	68.18	79.55	90.91
		Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.06
	TB-450-C2	N	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	-25.320	-25.320	-25.320	-25.320	-25.320	-25.320	-25.320	-25.320	-25.320
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.75	9.50	14.24	18.99	23.74	28.49	33.23	37.98
		Mz	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07
	TB-450-D1	N	-1.824	-1.824	-1.824	-1.824	-1.824	-1.824	-1.824	-1.824	-1.824
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.07
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
	TB-450-E1	N	-2.866	-2.866	-2.866	-2.866	-2.866	-2.866	-2.866	-2.866	-2.866
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01

Esforços em barras, por hipóteses/ações			
Barra	Hipótese	Esforço	Posições na barra

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			0.000 m	0.200 m	0.400 m
N134/N135	Peso próprio	N	-6.398	-6.398	-6.398
		Vy	0.037	0.037	0.037
		Vz	-9.082	-8.669	-8.257
		Mt	0.00	0.00	0.00
		My	15.95	17.72	19.41
		Mz	-0.06	-0.06	-0.07
	Guarda Corpo	N	-2.106	-2.106	-2.106
		Vy	-0.003	-0.003	-0.003
		Vz	-15.204	-7.587	0.030
		Mt	0.00	0.00	0.00
		My	22.81	25.09	25.84
		Mz	0.00	0.01	0.01
	Laje	N	-14.368	-14.368	-14.368
		Vy	-0.045	-0.045	-0.045
		Vz	-83.000	-79.086	-75.172
		Mt	0.00	0.00	0.00
		My	146.74	162.95	178.37
		Mz	0.07	0.08	0.08
	Pavimentação	N	-7.773	-7.773	-7.773
		Vy	-0.026	-0.026	-0.026
		Vz	-44.661	-44.661	-44.661
		Mt	0.00	0.00	0.00
		My	80.04	88.97	97.90
		Mz	0.04	0.04	0.05
	Recapeamento	N	-3.540	-3.540	-3.540
		Vy	-0.011	-0.011	-0.011
		Vz	-20.050	-20.050	-20.050
		Mt	0.00	0.00	0.00
		My	36.01	40.02	44.03
		Mz	0.02	0.02	0.02
	Vento 0	N	-6.540	-6.540	-6.540
		Vy	-0.065	-0.065	-0.065
		Vz	0.636	0.636	0.636
		Mt	0.00	0.00	0.00
		My	-0.95	-1.08	-1.21
		Mz	0.10	0.11	0.12

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Vento 180	N	12.211	12.211	12.211
		Vy	0.056	0.056	0.056
		Vz	-0.553	-0.553	-0.553
		Mt	0.00	0.00	0.00
		My	0.83	0.94	1.05
		Mz	-0.08	-0.10	-0.11
	Multidão (Passeio)	N	-3.003	-3.003	-3.003
		Vy	0.001	0.001	0.001
		Vz	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00
		My	14.84	14.84	14.84
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	-7.485	-7.485	-7.485
		Vy	-0.038	-0.038	-0.038
		Vz	-64.150	-64.150	-64.150
		Mt	0.00	0.00	0.00
		My	96.22	109.05	121.88
		Mz	0.06	0.06	0.07
	TB-450-A1	N	0.045	0.045	0.045
		Vy	0.020	0.020	0.020
		Vz	-0.199	-0.199	-0.199
		Mt	0.00	0.00	0.00
		My	0.30	0.34	0.38
		Mz	-0.03	-0.03	-0.04
	TB-450-A2	N	0.107	0.107	0.107
		Vy	0.020	0.020	0.020
		Vz	-0.198	-0.198	-0.198
		Mt	0.00	0.00	0.00
		My	0.30	0.34	0.38
		Mz	-0.03	-0.03	-0.04
	TB-450-B1	N	-6.984	-6.984	-6.984
		Vy	-0.030	-0.030	-0.030
		Vz	-25.586	-25.586	-25.586
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	38.38	43.50	48.61
		Mz	0.04	0.05	0.06
	TB-450-B2	N	-6.533	-6.533	-6.533
		Vy	-0.028	-0.028	-0.028
		Vz	-60.993	-60.993	-60.993
		Mt	0.00	0.00	0.00
		My	91.49	103.69	115.89
		Mz	0.04	0.05	0.05
	TB-450-C1	N	1.765	1.765	1.765
		Vy	-0.043	-0.043	-0.043
		Vz	-60.607	-60.607	-60.607
		Mt	0.00	0.00	0.00
		My	90.91	103.03	115.15
		Mz	0.06	0.07	0.08
	TB-450-C2	N	1.253	1.253	1.253
		Vy	-0.046	-0.046	-0.046
		Vz	-25.320	-25.320	-25.320
		Mt	0.00	0.00	0.00
		My	37.98	43.04	48.11
		Mz	0.07	0.08	0.09
	TB-450-D1	N	-1.824	-1.824	-1.824
		Vy	0.002	0.002	0.002
		Vz	-0.024	-0.024	-0.024
		Mt	0.00	0.00	0.00
		My	0.04	0.04	0.05
		Mz	0.00	0.00	0.00
	TB-450-D2	N	-1.738	-1.738	-1.738
		Vy	0.005	0.005	0.005
		Vz	-0.047	-0.047	-0.047
		Mt	0.00	0.00	0.00
		My	0.07	0.08	0.09
		Mz	-0.01	-0.01	-0.01
	TB-450-E1	N	-2.866	-2.866	-2.866
		Vy	0.002	0.002	0.002

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	-0.023	-0.023	-0.023
		Mt	0.00	0.00	0.00
		My	0.03	0.04	0.04
		Mz	0.00	0.00	0.00
	TB-450-E2	N	-3.317	-3.317	-3.317
		Vy	0.004	0.004	0.004
		Vz	-0.038	-0.038	-0.038
		Mt	0.00	0.00	0.00
		My	0.06	0.07	0.07
		Mz	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N135/N136	Peso próprio	N	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398	-6.398
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-8.257	-7.372	-6.487	-6.045	-5.160	-4.276	-3.391	-2.949	-2.064
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.41	22.76	25.73	27.07	29.48	31.50	33.14	33.82	34.89
		Mz	-0.07	-0.09	-0.10	-0.11	-0.12	-0.14	-0.16	-0.16	-0.18
	Guarda Corpo	N	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.84	25.83	25.82	25.81	25.80	25.78	25.77	25.77	25.75
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Laje	N	-14.368	-14.368	-14.368	-14.368	-14.368	-14.368	-14.368	-14.368	-14.368
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	-75.172	-66.700	-58.228	-53.993	-45.521	-37.049	-28.577	-24.341	-15.869
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	178.37	208.77	235.54	247.57	268.89	286.59	300.65	306.32	314.94
		Mz	0.08	0.10	0.12	0.13	0.15	0.17	0.19	0.20	0.22
	Pavimentação	N	-7.773	-7.773	-7.773	-7.773	-7.773	-7.773	-7.773	-7.773	-7.773
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-44.661	-39.578	-34.495	-31.954	-26.871	-21.788	-16.705	-14.164	-9.081
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.90	115.95	131.83	138.95	151.55	161.98	170.23	173.53	178.51

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.13
	Recapeamento	N	-3.540	-3.540	-3.540	-3.540	-3.540	-3.540	-3.540	-3.540	-3.540
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	-20.050	-17.791	-15.532	-14.402	-12.143	-9.884	-7.625	-6.495	-4.236
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.03	52.13	59.27	62.48	68.17	72.89	76.64	78.15	80.45
		Mz	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06
	Vento 0	N	-6.540	-6.540	-6.540	-6.540	-6.540	-6.540	-6.540	-6.540	-6.540
		Vy	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065
		Vz	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.21	-1.48	-1.75	-1.89	-2.16	-2.43	-2.71	-2.84	-3.11
		Mz	0.12	0.15	0.18	0.19	0.22	0.25	0.28	0.29	0.32
	Vento 180	N	12.211	12.211	12.211	12.211	12.211	12.211	12.211	12.211	12.211
		Vy	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
		Vz	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553	-0.553
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.05	1.29	1.52	1.64	1.88	2.12	2.35	2.47	2.71
		Mz	-0.11	-0.13	-0.15	-0.17	-0.19	-0.22	-0.24	-0.25	-0.28
	Multidão (Passeio)	N	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.84	14.84	14.85	14.85	14.85	14.86	14.86	14.86	14.86
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.485	-7.485	-7.485	-7.485	-7.485	-7.485	-7.485	-7.485	-7.485
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	-64.150	-56.920	-49.691	-46.077	-38.847	-31.618	-24.389	-20.774	-13.545
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	121.88	147.83	170.67	180.93	199.13	214.23	226.23	231.07	238.43
		Mz	0.07	0.09	0.10	0.11	0.13	0.14	0.16	0.17	0.19
	TB-450-A1	N	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.38	0.46	0.55	0.59	0.68	0.76	0.85	0.89	0.98
		Mz	-0.04	-0.05	-0.06	-0.06	-0.07	-0.08	-0.09	-0.09	-0.10
	TB-450-A2	N	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.38	0.46	0.55	0.59	0.67	0.76	0.84	0.88	0.97
		Mz	-0.04	-0.05	-0.06	-0.06	-0.07	-0.08	-0.09	-0.09	-0.10
	TB-450-B1	N	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984
		Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vz	-25.586	-25.586	-25.586	-25.586	-25.586	-25.586	-25.586	-25.586	-25.586
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.61	59.58	70.54	76.03	86.99	97.96	108.92	114.40	125.37
		Mz	0.06	0.07	0.08	0.09	0.10	0.11	0.13	0.13	0.15
	TB-450-B2	N	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533	-6.533
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-60.993	-48.543	-36.093	-29.868	-17.418	-4.967	7.483	13.708	26.158
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	115.89	139.36	157.49	164.56	174.69	179.49	178.95	176.68	168.14
		Mz	0.05	0.07	0.08	0.08	0.10	0.11	0.12	0.13	0.14
	TB-450-C1	N	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765	1.765
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	-60.607	-48.206	-35.806	-29.606	-17.205	-4.804	7.596	13.796	26.197
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	115.15	138.47	156.47	163.48	173.51	178.23	177.63	175.34	166.77
		Mz	0.08	0.10	0.12	0.13	0.15	0.16	0.18	0.19	0.21
	TB-450-C2	N	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	-25.320	-25.320	-25.320	-25.320	-25.320	-25.320	-25.320	-25.320	-25.320
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.11	58.96	69.81	75.24	86.09	96.94	107.79	113.22	124.07
		Mz	0.09	0.11	0.13	0.14	0.16	0.18	0.20	0.21	0.23
	TB-450-D1	N	-1.824	-1.824	-1.824	-1.824	-1.824	-1.824	-1.824	-1.824	-1.824
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12
		Mz	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-D2	N	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738	-1.738
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.09	0.11	0.13	0.14	0.16	0.18	0.20	0.21	0.23

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-E1	N	-2.866	-2.866	-2.866	-2.866	-2.866	-2.866	-2.866	-2.866	-2.866
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.11
		Mz	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-E2	N	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.09	0.11	0.11	0.13	0.15	0.16	0.17	0.19
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N136/N81	Peso próprio	N	-6.398	-6.398	-6.398	-6.398	-6.398
		Vy	0.037	0.037	0.037	0.037	0.037
		Vz	-2.064	-1.639	-1.213	-0.787	-0.362
		Mt	0.00	0.00	0.00	0.00	0.00
		My	34.89	35.28	35.57	35.78	35.90
		Mz	-0.18	-0.19	-0.20	-0.20	-0.21
	Guarda Corpo	N	-2.106	-2.106	-2.106	-2.106	-2.106
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.030	0.030	0.030	0.030	0.030
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.75	25.75	25.74	25.73	25.73
		Mz	0.01	0.02	0.02	0.02	0.02
	Laje	N	-14.368	-14.368	-14.368	-14.368	-14.368
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	-15.869	-11.792	-7.715	-3.638	0.439
		Mt	0.00	0.00	0.00	0.00	0.00
		My	314.94	317.79	319.80	320.97	321.30
		Mz	0.22	0.23	0.24	0.25	0.26

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	Pavimentação	N	-7.773	-7.773	-7.773	-7.773	-7.773
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-9.081	-6.689	-4.297	-1.905	0.487
		Mt	0.00	0.00	0.00	0.00	0.00
		My	178.51	180.14	181.27	181.91	182.06
		Mz	0.13	0.13	0.14	0.14	0.15
	Recapeamento	N	-3.540	-3.540	-3.540	-3.540	-3.540
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	-4.236	-3.149	-2.061	-0.974	0.113
		Mt	0.00	0.00	0.00	0.00	0.00
		My	80.45	81.22	81.75	82.07	82.15
		Mz	0.06	0.06	0.06	0.06	0.07
	Vento 0	N	-6.540	-6.540	-6.540	-6.540	-6.540
		Vy	-0.065	-0.065	-0.065	-0.065	-0.065
		Vz	0.636	0.636	0.636	0.636	0.636
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.11	-3.25	-3.38	-3.51	-3.64
		Mz	0.32	0.33	0.34	0.36	0.37
	Vento 180	N	12.211	12.211	12.211	12.211	12.211
		Vy	0.056	0.056	0.056	0.056	0.056
		Vz	-0.553	-0.553	-0.553	-0.553	-0.553
		Mt	0.00	0.00	0.00	0.00	0.00
		My	2.71	2.82	2.94	3.05	3.17
		Mz	-0.28	-0.29	-0.30	-0.31	-0.32
	Multidão (Passeio)	N	-3.003	-3.003	-3.003	-3.003	-3.003
		Vy	0.001	0.001	0.001	0.001	0.001
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.87	14.87	14.87	14.87
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.485	-7.485	-7.485	-7.485	-7.485
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	-13.545	-10.066	-6.587	-3.108	0.372
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	238.43	240.86	242.58	243.58	243.86
		Mz	0.19	0.19	0.20	0.21	0.22
	TB-450-A1	N	0.045	0.045	0.045	0.045	0.045
		Vy	0.020	0.020	0.020	0.020	0.020
		Vz	-0.199	-0.199	-0.199	-0.199	-0.199
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.98	1.02	1.06	1.10	1.14
		Mz	-0.10	-0.10	-0.11	-0.11	-0.12
	TB-450-A2	N	0.107	0.107	0.107	0.107	0.107
		Vy	0.020	0.020	0.020	0.020	0.020
		Vz	-0.198	-0.198	-0.198	-0.198	-0.198
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.97	1.01	1.05	1.09	1.13
		Mz	-0.10	-0.10	-0.11	-0.11	-0.12
	TB-450-B1	N	-6.984	-6.984	-6.984	-6.984	-6.984
		Vy	-0.030	-0.030	-0.030	-0.030	-0.030
		Vz	-25.586	-25.586	-25.586	-25.586	-25.586
		Mt	0.00	0.00	0.00	0.00	0.00
		My	125.37	130.65	135.92	141.20	146.48
		Mz	0.15	0.15	0.16	0.16	0.17
	TB-450-B2	N	-6.533	-6.533	-6.533	-6.533	-6.533
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	26.158	26.158	26.158	26.158	26.158
		Mt	0.00	0.00	0.00	0.00	0.00
		My	168.14	162.74	157.35	151.95	146.56
		Mz	0.14	0.14	0.15	0.16	0.16
	TB-450-C1	N	1.765	1.765	1.765	1.765	1.765
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	26.197	26.197	26.197	26.197	26.197
		Mt	0.00	0.00	0.00	0.00	0.00
		My	166.77	161.36	155.96	150.56	145.16
		Mz	0.21	0.22	0.23	0.24	0.25
	TB-450-C2	N	1.253	1.253	1.253	1.253	1.253
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	-25.320	-25.320	-25.320	-25.320	-25.320
		Mt	0.00	0.00	0.00	0.00	0.00
		My	124.07	129.29	134.51	139.74	144.96
		Mz	0.23	0.24	0.25	0.26	0.27
	TB-450-D1	N	-1.824	-1.824	-1.824	-1.824	-1.824
		Vy	0.002	0.002	0.002	0.002	0.002
		Vz	-0.024	-0.024	-0.024	-0.024	-0.024
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.12	0.12	0.13	0.13	0.14
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-D2	N	-1.738	-1.738	-1.738	-1.738	-1.738
		Vy	0.005	0.005	0.005	0.005	0.005
		Vz	-0.047	-0.047	-0.047	-0.047	-0.047
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.23	0.24	0.25	0.26	0.27
		Mz	-0.02	-0.02	-0.03	-0.03	-0.03
	TB-450-E1	N	-2.866	-2.866	-2.866	-2.866	-2.866
		Vy	0.002	0.002	0.002	0.002	0.002
		Vz	-0.023	-0.023	-0.023	-0.023	-0.023
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.11	0.12	0.12	0.13	0.13
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-E2	N	-3.317	-3.317	-3.317	-3.317	-3.317
		Vy	0.004	0.004	0.004	0.004	0.004
		Vz	-0.038	-0.038	-0.038	-0.038	-0.038
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.19	0.20	0.20	0.21	0.22
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N81/N139	Peso próprio	N	-6.419	-6.419	-6.419	-6.419	-6.419

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	0.362	0.787	1.213	1.639	2.064
		Mt	0.00	0.00	0.00	0.00	0.00
		My	35.90	35.78	35.57	35.28	34.89
		Mz	-0.21	-0.20	-0.20	-0.19	-0.18
	Guarda Corpo	N	-2.104	-2.104	-2.104	-2.104	-2.104
		Vy	0.003	0.003	0.003	0.003	0.003
		Vz	-0.030	-0.030	-0.030	-0.030	-0.030
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.73	25.73	25.74	25.75	25.75
		Mz	0.02	0.02	0.02	0.02	0.01
	Laje	N	-14.342	-14.342	-14.342	-14.342	-14.342
		Vy	0.045	0.045	0.045	0.045	0.045
		Vz	-0.439	3.638	7.715	11.792	15.869
		Mt	0.00	0.00	0.00	0.00	0.00
		My	321.30	320.97	319.80	317.79	314.94
		Mz	0.26	0.25	0.24	0.23	0.22
	Pavimentação	N	-7.758	-7.758	-7.758	-7.758	-7.758
		Vy	0.026	0.026	0.026	0.026	0.026
		Vz	-0.018	2.374	4.766	7.157	9.549
		Mt	0.00	0.00	0.00	0.00	0.00
		My	182.06	181.82	181.08	179.85	178.13
		Mz	0.15	0.14	0.14	0.13	0.13
	Recapeamento	N	-3.534	-3.534	-3.534	-3.534	-3.534
		Vy	0.011	0.011	0.011	0.011	0.011
		Vz	-0.113	0.974	2.061	3.149	4.236
		Mt	0.00	0.00	0.00	0.00	0.00
		My	82.15	82.07	81.75	81.22	80.45
		Mz	0.07	0.06	0.06	0.06	0.06
	Vento 0	N	-6.503	-6.503	-6.503	-6.503	-6.503
		Vy	0.065	0.065	0.065	0.065	0.065
		Vz	-0.636	-0.636	-0.636	-0.636	-0.636
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.64	-3.51	-3.38	-3.25	-3.11

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	0.37	0.36	0.34	0.33	0.32
	Vento 180	N	12.178	12.178	12.178	12.178	12.178
		Vy	-0.056	-0.056	-0.056	-0.056	-0.056
		Vz	0.553	0.553	0.553	0.553	0.553
		Mt	0.00	0.00	0.00	0.00	0.00
		My	3.17	3.05	2.94	2.82	2.71
		Mz	-0.32	-0.31	-0.30	-0.29	-0.28
	Multidão (Passeio)	N	-3.003	-3.003	-3.003	-3.003	-3.003
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.87	14.87	14.87	14.87	14.86
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.464	-7.464	-7.464	-7.464	-7.464
		Vy	0.038	0.038	0.038	0.038	0.038
		Vz	-0.372	3.108	6.587	10.066	13.545
		Mt	0.00	0.00	0.00	0.00	0.00
		My	243.86	243.58	242.58	240.86	238.43
		Mz	0.22	0.21	0.20	0.19	0.19
	TB-450-A1	N	0.033	0.033	0.033	0.033	0.033
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	0.199	0.199	0.199	0.199	0.199
		Mt	0.00	0.00	0.00	0.00	0.00
		My	1.14	1.10	1.06	1.02	0.98
		Mz	-0.12	-0.11	-0.11	-0.10	-0.10
	TB-450-A2	N	0.095	0.095	0.095	0.095	0.095
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	0.198	0.198	0.198	0.198	0.198
		Mt	0.00	0.00	0.00	0.00	0.00
		My	1.13	1.09	1.05	1.01	0.97
		Mz	-0.12	-0.11	-0.11	-0.10	-0.10
	TB-450-B1	N	-6.967	-6.967	-6.967	-6.967	-6.967
		Vy	0.030	0.030	0.030	0.030	0.030
		Vz	-26.172	-26.172	-26.172	-26.172	-26.172

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	146.48	151.88	157.27	162.67	168.07
		Mz	0.17	0.16	0.16	0.15	0.15
	TB-450-B2	N	-6.517	-6.517	-6.517	-6.517	-6.517
		Vy	0.028	0.028	0.028	0.028	0.028
		Vz	25.600	25.600	25.600	25.600	25.600
		Mt	0.00	0.00	0.00	0.00	0.00
		My	146.56	141.28	136.00	130.72	125.44
		Mz	0.16	0.16	0.15	0.14	0.14
	TB-450-C1	N	1.790	1.790	1.790	1.790	1.790
		Vy	0.043	0.043	0.043	0.043	0.043
		Vz	25.355	25.355	25.355	25.355	25.355
		Mt	0.00	0.00	0.00	0.00	0.00
		My	145.16	139.93	134.70	129.47	124.24
		Mz	0.25	0.24	0.23	0.22	0.21
	TB-450-C2	N	1.279	1.279	1.279	1.279	1.279
		Vy	0.046	0.046	0.046	0.046	0.046
		Vz	-26.232	-26.232	-26.232	-26.232	-26.232
		Mt	0.00	0.00	0.00	0.00	0.00
		My	144.96	150.37	155.78	161.19	166.60
		Mz	0.27	0.26	0.25	0.24	0.23
	TB-450-D1	N	-1.826	-1.826	-1.826	-1.826	-1.826
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.024	0.024	0.024	0.024	0.024
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.14	0.13	0.13	0.12	0.12
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-D2	N	-1.741	-1.741	-1.741	-1.741	-1.741
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.047	0.047	0.047	0.047	0.047
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.27	0.26	0.25	0.24	0.23
		Mz	-0.03	-0.03	-0.03	-0.02	-0.02
	TB-450-E1	N	-2.867	-2.867	-2.867	-2.867	-2.867

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.023	0.023	0.023	0.023	0.023
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.13	0.12	0.12	0.11
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-E2	N	-3.319	-3.319	-3.319	-3.319	-3.319
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.038	0.038	0.038	0.038	0.038
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.22	0.21	0.20	0.20	0.19
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N139/N138	Peso próprio	N	-6.419	-6.419	-6.419	-6.419	-6.419	-6.419	-6.419	-6.419	-6.419
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	2.064	2.949	3.834	4.276	5.160	6.045	6.930	7.372	8.257
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	34.89	33.82	32.37	31.50	29.48	27.07	24.29	22.76	19.41
		Mz	-0.18	-0.16	-0.15	-0.14	-0.12	-0.11	-0.09	-0.09	-0.07
	Guarda Corpo	N	-2.104	-2.104	-2.104	-2.104	-2.104	-2.104	-2.104	-2.104	-2.104
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.75	25.77	25.78	25.78	25.80	25.81	25.82	25.83	25.84
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Laje	N	-14.342	-14.342	-14.342	-14.342	-14.342	-14.342	-14.342	-14.342	-14.342
		Vy	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vz	15.869	24.341	32.813	37.049	45.521	53.993	62.464	66.700	75.172
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	314.94	306.32	294.07	286.59	268.89	247.57	222.61	208.77	178.37
		Mz	0.22	0.20	0.18	0.17	0.15	0.13	0.11	0.10	0.08
	Pavimentação	N	-7.758	-7.758	-7.758	-7.758	-7.758	-7.758	-7.758	-7.758	-7.758
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	9.549	14.520	19.490	21.975	26.945	31.915	36.885	39.370	44.340
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	178.13	172.97	165.68	161.24	150.76	138.14	123.40	115.23	97.29
		Mz	0.13	0.11	0.10	0.10	0.09	0.08	0.07	0.06	0.05
	Recapeamento	N	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	4.236	6.495	8.754	9.884	12.143	14.402	16.661	17.791	20.050
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	80.45	78.15	74.89	72.89	68.17	62.48	55.83	52.13	44.03
		Mz	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02
	Vento 0	N	-6.503	-6.503	-6.503	-6.503	-6.503	-6.503	-6.503	-6.503	-6.503
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.11	-2.84	-2.57	-2.43	-2.16	-1.89	-1.62	-1.48	-1.21
		Mz	0.32	0.29	0.26	0.25	0.22	0.19	0.16	0.15	0.12
	Vento 180	N	12.178	12.178	12.178	12.178	12.178	12.178	12.178	12.178	12.178
		Vy	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vz	0.553	0.553	0.553	0.553	0.553	0.553	0.553	0.553	0.553
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.71	2.47	2.24	2.12	1.88	1.64	1.41	1.29	1.05
		Mz	-0.28	-0.25	-0.23	-0.22	-0.19	-0.17	-0.14	-0.13	-0.11
	Multidão (Passeio)	N	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.86	14.86	14.86	14.86	14.85	14.85	14.85	14.84	14.84
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.464	-7.464	-7.464	-7.464	-7.464	-7.464	-7.464	-7.464	-7.464
		Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz	13.545	20.774	28.003	31.618	38.847	46.077	53.306	56.920	64.150
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	238.43	231.07	220.62	214.23	199.13	180.93	159.64	147.83	121.88
		Mz	0.19	0.17	0.15	0.14	0.13	0.11	0.10	0.09	0.07
	TB-450-A1	N	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.98	0.89	0.81	0.76	0.68	0.59	0.51	0.46	0.38
		Mz	-0.10	-0.09	-0.08	-0.08	-0.07	-0.06	-0.05	-0.05	-0.04
	TB-450-A2	N	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.97	0.88	0.80	0.76	0.67	0.59	0.50	0.46	0.38
		Mz	-0.10	-0.09	-0.08	-0.08	-0.07	-0.06	-0.05	-0.05	-0.04
	TB-450-B1	N	-6.967	-6.967	-6.967	-6.967	-6.967	-6.967	-6.967	-6.967	-6.967
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	-26.172	-13.722	-1.272	4.953	17.403	29.854	42.304	48.529	60.979
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	168.07	176.62	179.83	179.44	174.65	164.52	149.06	139.33	115.86
		Mz	0.15	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06
	TB-450-B2	N	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	25.600	25.600	25.600	25.600	25.600	25.600	25.600	25.600	25.600
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	125.44	114.47	103.50	98.01	87.04	76.07	65.10	59.61	48.64
		Mz	0.14	0.13	0.11	0.11	0.10	0.08	0.07	0.07	0.05
	TB-450-C1	N	1.790	1.790	1.790	1.790	1.790	1.790	1.790	1.790	1.790
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	25.355	25.355	25.355	25.355	25.355	25.355	25.355	25.355	25.355
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	124.24	113.37	102.51	97.07	86.21	75.34	64.47	59.04	48.17
		Mz	0.21	0.19	0.17	0.16	0.15	0.13	0.11	0.10	0.08
	TB-450-C2	N	1.279	1.279	1.279	1.279	1.279	1.279	1.279	1.279	1.279
		Vy	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vz	-26.232	-13.831	-1.430	4.770	17.170	29.571	41.971	48.172	60.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	166.60	175.18	178.45	178.10	173.39	163.38	148.05	138.39	115.09
		Mz	0.23	0.21	0.19	0.18	0.16	0.14	0.12	0.11	0.09
	TB-450-D1	N	-1.826	-1.826	-1.826	-1.826	-1.826	-1.826	-1.826	-1.826	-1.826
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00
	TB-450-D2	N	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	0.23	0.21	0.19	0.18	0.16	0.14	0.12	0.11	0.09
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01
	TB-450-E1	N	-2.867	-2.867	-2.867	-2.867	-2.867	-2.867	-2.867	-2.867	-2.867
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.11	0.10	0.09	0.09	0.08	0.07	0.06	0.05	0.04
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00
	TB-450-E2	N	-3.319	-3.319	-3.319	-3.319	-3.319	-3.319	-3.319	-3.319	-3.319
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.19	0.17	0.16	0.15	0.13	0.11	0.10	0.09	0.07
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N138/N137	Peso próprio	N	-6.419	-6.419	-6.419
		Vy	-0.037	-0.037	-0.037
		Vz	8.257	8.669	9.082
		Mt	0.00	0.00	0.00
		My	19.41	17.72	15.95
		Mz	-0.07	-0.06	-0.06
	Guarda Corpo	N	-2.104	-2.104	-2.104
		Vy	0.003	0.003	0.003
		Vz	-0.030	7.587	15.204
		Mt	0.00	0.00	0.00
		My	25.84	25.09	22.81
		Mz	0.01	0.01	0.00
	Laje	N	-14.342	-14.342	-14.342
		Vy	0.045	0.045	0.045
		Vz	75.172	79.086	83.000
		Mt	0.00	0.00	0.00
		My	178.37	162.95	146.74
		Mz	0.08	0.08	0.07

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Pavimentação	N	-7.758	-7.758	-7.758
		Vy	0.026	0.026	0.026
		Vz	44.340	44.340	44.340
		Mt	0.00	0.00	0.00
		My	97.29	88.43	79.56
		Mz	0.05	0.04	0.04
	Recapeamento	N	-3.534	-3.534	-3.534
		Vy	0.011	0.011	0.011
		Vz	20.050	20.050	20.050
		Mt	0.00	0.00	0.00
		My	44.03	40.02	36.01
		Mz	0.02	0.02	0.02
	Vento 0	N	-6.503	-6.503	-6.503
		Vy	0.065	0.065	0.065
		Vz	-0.636	-0.636	-0.636
		Mt	0.00	0.00	0.00
		My	-1.21	-1.08	-0.95
		Mz	0.12	0.11	0.10
	Vento 180	N	12.178	12.178	12.178
		Vy	-0.056	-0.056	-0.056
		Vz	0.553	0.553	0.553
		Mt	0.00	0.00	0.00
		My	1.05	0.94	0.83
		Mz	-0.11	-0.10	-0.08
	Multidão (Passeio)	N	-3.003	-3.003	-3.003
		Vy	-0.001	-0.001	-0.001
		Vz	0.008	0.008	0.008
		Mt	0.00	0.00	0.00
		My	14.84	14.84	14.84
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	-7.464	-7.464	-7.464
		Vy	0.038	0.038	0.038
		Vz	64.150	64.150	64.150
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	121.88	109.05	96.22
		Mz	0.07	0.06	0.06
	TB-450-A1	N	0.033	0.033	0.033
		Vy	-0.020	-0.020	-0.020
		Vz	0.199	0.199	0.199
		Mt	0.00	0.00	0.00
		My	0.38	0.34	0.30
		Mz	-0.04	-0.03	-0.03
	TB-450-A2	N	0.095	0.095	0.095
		Vy	-0.020	-0.020	-0.020
		Vz	0.198	0.198	0.198
		Mt	0.00	0.00	0.00
		My	0.38	0.34	0.30
		Mz	-0.04	-0.03	-0.03
	TB-450-B1	N	-6.967	-6.967	-6.967
		Vy	0.030	0.030	0.030
		Vz	60.979	60.979	60.979
		Mt	0.00	0.00	0.00
		My	115.86	103.66	91.47
		Mz	0.06	0.05	0.04
	TB-450-B2	N	-6.517	-6.517	-6.517
		Vy	0.028	0.028	0.028
		Vz	25.600	25.600	25.600
		Mt	0.00	0.00	0.00
		My	48.64	43.52	38.40
		Mz	0.05	0.05	0.04
	TB-450-C1	N	1.790	1.790	1.790
		Vy	0.043	0.043	0.043
		Vz	25.355	25.355	25.355
		Mt	0.00	0.00	0.00
		My	48.17	43.10	38.03
		Mz	0.08	0.07	0.06
	TB-450-C2	N	1.279	1.279	1.279
		Vy	0.046	0.046	0.046

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	60.572	60.572	60.572
		Mt	0.00	0.00	0.00
		My	115.09	102.97	90.86
		Mz	0.09	0.08	0.07
	TB-450-D1	N	-1.826	-1.826	-1.826
		Vy	-0.002	-0.002	-0.002
		Vz	0.024	0.024	0.024
		Mt	0.00	0.00	0.00
		My	0.05	0.04	0.04
		Mz	0.00	0.00	0.00
	TB-450-D2	N	-1.741	-1.741	-1.741
		Vy	-0.005	-0.005	-0.005
		Vz	0.047	0.047	0.047
		Mt	0.00	0.00	0.00
		My	0.09	0.08	0.07
		Mz	-0.01	-0.01	-0.01
	TB-450-E1	N	-2.867	-2.867	-2.867
		Vy	-0.002	-0.002	-0.002
		Vz	0.023	0.023	0.023
		Mt	0.00	0.00	0.00
		My	0.04	0.04	0.03
		Mz	0.00	0.00	0.00
	TB-450-E2	N	-3.319	-3.319	-3.319
		Vy	-0.004	-0.004	-0.004
		Vz	0.038	0.038	0.038
		Mt	0.00	0.00	0.00
		My	0.07	0.07	0.06
		Mz	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N137/N9	Peso próprio	N	-6.419	-6.419	-6.419	-6.419	-6.419	-6.419	-6.419	-6.419	-6.419
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	9.082	9.469	9.856	10.243	10.630	11.017	11.404	11.791	12.178
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.95	14.21	12.39	10.51	8.55	6.52	4.42	2.25	0.00
		Mz	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
	Guarda Corpo	N	-2.104	-2.104	-2.104	-2.104	-2.104	-2.104	-2.104	-2.104	-2.104
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	15.204	15.204	15.204	15.204	15.204	15.204	15.204	15.204	15.204
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.81	19.96	17.11	14.25	11.40	8.55	5.70	2.85	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-14.342	-14.342	-14.342	-14.342	-14.342	-14.342	-14.342	-14.342	-14.342
		Vy	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vz	83.000	86.707	90.413	94.119	97.826	101.532	105.239	108.945	112.652
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	146.74	130.83	114.22	96.92	78.93	60.24	40.85	20.77	0.00
		Mz	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
	Pavimentação	N	-7.758	-7.758	-7.758	-7.758	-7.758	-7.758	-7.758	-7.758	-7.758
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	44.340	46.515	48.689	50.864	53.038	55.212	57.387	59.561	61.736
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	79.56	71.04	62.11	52.78	43.04	32.89	22.34	11.37	0.00
		Mz	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
	Recapeamento	N	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534	-3.534
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	20.050	21.038	22.027	23.015	24.003	24.992	25.980	26.969	27.957
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.01	32.15	28.12	23.89	19.49	14.89	10.11	5.15	0.00
		Mz	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	Vento 0	N	-6.503	-6.503	-6.503	-6.503	-6.503	-6.503	-6.503	-6.503	-6.503
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.95	-0.83	-0.71	-0.60	-0.48	-0.36	-0.24	-0.12	0.00
		Mz	0.10	0.08	0.07	0.06	0.05	0.04	0.02	0.01	0.00
	Vento 180	N	12.178	12.178	12.178	12.178	12.178	12.178	12.178	12.178	12.178
		Vy	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vz	0.553	0.553	0.553	0.553	0.553	0.553	0.553	0.553	0.553

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.83	0.73	0.62	0.52	0.41	0.31	0.21	0.10	0.00
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	Multidão (Passeio)	N	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003	-3.003
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.008	2.479	4.950	7.421	9.892	12.362	14.833	17.304	19.775
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.84	14.60	13.91	12.75	11.13	9.04	6.49	3.48	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.464	-7.464	-7.464	-7.464	-7.464	-7.464	-7.464	-7.464	-7.464
		Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz	64.150	64.150	64.150	64.150	64.150	64.150	64.150	64.150	64.150
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	96.22	84.20	72.17	60.14	48.11	36.08	24.06	12.03	0.00
		Mz	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00
	TB-450-A1	N	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.30	0.26	0.22	0.19	0.15	0.11	0.07	0.04	0.00
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	TB-450-A2	N	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.30	0.26	0.22	0.19	0.15	0.11	0.07	0.04	0.00
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	TB-450-B1	N	-6.967	-6.967	-6.967	-6.967	-6.967	-6.967	-6.967	-6.967	-6.967
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	60.979	60.979	60.979	60.979	60.979	60.979	60.979	60.979	60.979
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	91.47	80.03	68.60	57.17	45.73	34.30	22.87	11.43	0.00
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	TB-450-B2	N	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517	-6.517
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	25.600	25.600	25.600	25.600	25.600	25.600	25.600	25.600	25.600
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	38.40	33.60	28.80	24.00	19.20	14.40	9.60	4.80	0.00
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	TB-450-C1	N	1.790	1.790	1.790	1.790	1.790	1.790	1.790	1.790	1.790
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	25.355	25.355	25.355	25.355	25.355	25.355	25.355	25.355	25.355
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.03	33.28	28.52	23.77	19.02	14.26	9.51	4.75	0.00
		Mz	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.00
	TB-450-C2	N	1.279	1.279	1.279	1.279	1.279	1.279	1.279	1.279	1.279
		Vy	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vz	60.572	60.572	60.572	60.572	60.572	60.572	60.572	60.572	60.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	90.86	79.50	68.14	56.79	45.43	34.07	22.71	11.36	0.00
		Mz	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
	TB-450-D1	N	-1.826	-1.826	-1.826	-1.826	-1.826	-1.826	-1.826	-1.826	-1.826
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-2.867	-2.867	-2.867	-2.867	-2.867	-2.867	-2.867	-2.867	-2.867
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-3.319	-3.319	-3.319	-3.319	-3.319	-3.319	-3.319	-3.319	-3.319
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N164/N128	Peso próprio	N	2.636	2.636	2.636	2.636	2.636	2.636	2.636	2.636	2.636
		Vy	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Vz	-17.320	-16.933	-16.546	-16.159	-15.772	-15.385	-14.998	-14.611	-14.224
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.21	6.35	9.42	12.41	15.33	18.18	20.96	23.66
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
	Guarda Corpo	N	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-13.815	-13.815	-13.815	-13.815	-13.815	-13.815	-13.815	-13.815	-13.815
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.59	5.18	7.77	10.36	12.95	15.54	18.13	20.72
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	Laje	N	3.388	3.388	3.388	3.388	3.388	3.388	3.388	3.388	3.388
		Vy	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
		Vz	-97.750	-94.051	-90.352	-86.653	-82.954	-79.255	-75.556	-71.857	-68.158
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	17.98	35.27	51.86	67.76	82.97	97.48	111.30	124.43
		Mz	0.00	-0.03	-0.05	-0.08	-0.10	-0.13	-0.16	-0.18	-0.21
	Pavimentação	N	1.964	1.964	1.964	1.964	1.964	1.964	1.964	1.964	1.964
		Vy	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Vz	-54.188	-52.018	-49.848	-47.678	-45.508	-43.338	-41.167	-38.997	-36.827
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	9.96	19.51	28.65	37.39	45.72	53.64	61.15	68.26
		Mz	0.00	-0.01	-0.03	-0.04	-0.06	-0.07	-0.09	-0.10	-0.12
	Recapeamento	N	0.869	0.869	0.869	0.869	0.869	0.869	0.869	0.869	0.869
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	-24.193	-23.206	-22.220	-21.233	-20.247	-19.261	-18.274	-17.288	-16.301
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.44	8.70	12.78	16.66	20.37	23.89	27.22	30.37
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05
	Vento 0	N	54.881	54.881	54.881	54.881	54.881	54.881	54.881	54.881	54.881
		Vy	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358
		Vz	-9.698	-9.698	-9.698	-9.698	-9.698	-9.698	-9.698	-9.698	-9.698
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	1.82	3.64	5.46	7.27	9.09	10.91	12.73	14.55

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.00	0.07	0.13	0.20	0.27	0.34	0.40	0.47	0.54
	Vento 180	N	-48.582	-48.582	-48.582	-48.582	-48.582	-48.582	-48.582	-48.582	-48.582
		Vy	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355
		Vz	10.982	10.982	10.982	10.982	10.982	10.982	10.982	10.982	10.982
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.06	-4.12	-6.18	-8.24	-10.30	-12.35	-14.41	-16.47
		Mz	0.00	-0.07	-0.13	-0.20	-0.27	-0.33	-0.40	-0.47	-0.53
	Multidão (Passeio)	N	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-18.928	-16.462	-13.996	-11.530	-9.064	-6.598	-4.132	-1.666	0.800
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.32	6.17	8.57	10.50	11.97	12.97	13.52	13.60
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
	Multidão - TB450	N	2.759	2.759	2.759	2.759	2.759	2.759	2.759	2.759	2.759
		Vy	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
		Vz	-53.188	-53.188	-53.188	-53.188	-53.188	-53.188	-53.188	-53.188	-53.188
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	9.97	19.95	29.92	39.89	49.86	59.84	69.81	79.78
		Mz	0.00	-0.02	-0.04	-0.06	-0.07	-0.09	-0.11	-0.13	-0.15
	TB-450-A1	N	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.17
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-B2	N	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.04	0.06	0.09	0.11	0.13	0.15	0.17

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	TB-450-C1	N	5.712	5.712	5.712	5.712	5.712	5.712	5.712	5.712	5.712
		Vy	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Vz	-106.065	-106.065	-106.065	-106.065	-106.065	-106.065	-106.065	-106.065	-106.065
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	19.89	39.77	59.66	79.55	99.44	119.32	139.21	159.10
		Mz	0.00	-0.04	-0.07	-0.11	-0.14	-0.18	-0.21	-0.25	-0.28
	TB-450-C2	N	2.711	2.711	2.711	2.711	2.711	2.711	2.711	2.711	2.711
		Vy	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Vz	-38.827	-38.827	-38.827	-38.827	-38.827	-38.827	-38.827	-38.827	-38.827
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	7.28	14.56	21.84	29.12	36.40	43.68	50.96	58.24
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
	TB-450-D1	N	-0.324	-0.324	-0.324	-0.324	-0.324	-0.324	-0.324	-0.324	-0.324
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.05	0.07	0.09	0.12	0.14	0.17	0.19
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
	TB-450-E1	N	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.02	-0.04	-0.05	-0.07	-0.09	-0.11	-0.13	-0.14
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações			
Barra	Hipótese	Esforço	Posições na barra

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

			0.000 m	0.200 m	0.400 m
N128/N129	Peso próprio	N	2.636	2.636	2.636
		Vy	0.039	0.039	0.039
		Vz	-14.224	-13.812	-13.399
		Mt	0.00	0.00	0.00
		My	23.66	26.46	29.18
		Mz	-0.06	-0.07	-0.07
	Guarda Corpo	N	0.256	0.256	0.256
		Vy	0.014	0.014	0.014
		Vz	-13.815	-6.213	1.389
		Mt	0.00	0.00	0.00
		My	20.72	22.73	23.21
		Mz	-0.02	-0.02	-0.03
	Laje	N	3.388	3.388	3.388
		Vy	0.139	0.139	0.139
		Vz	-68.158	-64.291	-60.424
		Mt	0.00	0.00	0.00
		My	124.43	137.68	150.15
		Mz	-0.21	-0.24	-0.26
	Pavimentação	N	1.964	1.964	1.964
		Vy	0.079	0.079	0.079
		Vz	-36.827	-36.827	-36.827
		Mt	0.00	0.00	0.00
		My	68.26	75.63	82.99
		Mz	-0.12	-0.13	-0.15
	Recapeamento	N	0.869	0.869	0.869
		Vy	0.035	0.035	0.035
		Vz	-16.301	-16.301	-16.301
		Mt	0.00	0.00	0.00
		My	30.37	33.63	36.89
		Mz	-0.05	-0.06	-0.07
	Vento 0	N	54.881	54.881	54.881
		Vy	-0.358	-0.358	-0.358
		Vz	-9.698	-9.698	-9.698
		Mt	0.00	0.00	0.00
		My	14.55	16.49	18.43
		Mz	0.54	0.61	0.68

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Vento 180	N	-48.582	-48.582	-48.582
		Vy	0.355	0.355	0.355
		Vz	10.982	10.982	10.982
		Mt	0.00	0.00	0.00
		My	-16.47	-18.67	-20.87
		Mz	-0.53	-0.60	-0.67
	Multidão (Passeio)	N	0.017	0.017	0.017
		Vy	0.011	0.011	0.011
		Vz	0.800	0.800	0.800
		Mt	0.00	0.00	0.00
		My	13.60	13.44	13.28
		Mz	-0.02	-0.02	-0.02
	Multidão - TB450	N	2.759	2.759	2.759
		Vy	0.098	0.098	0.098
		Vz	-53.188	-53.188	-53.188
		Mt	0.00	0.00	0.00
		My	79.78	90.42	101.06
		Mz	-0.15	-0.17	-0.19
	TB-450-A1	N	0.734	0.734	0.734
		Vy	0.000	0.000	0.000
		Vz	-0.110	-0.110	-0.110
		Mt	0.00	0.00	0.00
		My	0.17	0.19	0.21
		Mz	0.00	0.00	0.00
	TB-450-A2	N	0.651	0.651	0.651
		Vy	0.001	0.001	0.001
		Vz	-0.157	-0.157	-0.157
		Mt	0.00	0.00	0.00
		My	0.24	0.27	0.30
		Mz	0.00	0.00	0.00
	TB-450-B1	N	-0.563	-0.563	-0.563
		Vy	0.010	0.010	0.010
		Vz	-0.035	-0.035	-0.035
		Mt	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	0.05	0.06	0.07
		Mz	-0.01	-0.02	-0.02
	TB-450-B2	N	-0.091	-0.091	-0.091
		Vy	-0.003	-0.003	-0.003
		Vz	-0.115	-0.115	-0.115
		Mt	0.00	0.00	0.00
		My	0.17	0.20	0.22
		Mz	0.01	0.01	0.01
	TB-450-C1	N	5.712	5.712	5.712
		Vy	0.187	0.187	0.187
		Vz	-106.065	-106.065	-106.065
		Mt	0.00	0.00	0.00
		My	159.10	180.31	201.52
		Mz	-0.28	-0.32	-0.36
	TB-450-C2	N	2.711	2.711	2.711
		Vy	0.039	0.039	0.039
		Vz	-38.827	-38.827	-38.827
		Mt	0.00	0.00	0.00
		My	58.24	66.01	73.77
		Mz	-0.06	-0.07	-0.07
	TB-450-D1	N	-0.324	-0.324	-0.324
		Vy	0.003	0.003	0.003
		Vz	-0.126	-0.126	-0.126
		Mt	0.00	0.00	0.00
		My	0.19	0.21	0.24
		Mz	0.00	-0.01	-0.01
	TB-450-D2	N	-0.096	-0.096	-0.096
		Vy	0.006	0.006	0.006
		Vz	0.013	0.013	0.013
		Mt	0.00	0.00	0.00
		My	-0.02	-0.02	-0.03
		Mz	-0.01	-0.01	-0.01
	TB-450-E1	N	-0.444	-0.444	-0.444
		Vy	0.003	0.003	0.003

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.005	0.005	0.005
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	0.00	-0.01	-0.01
	TB-450-E2	N	-1.029	-1.029	-1.029
		Vy	0.003	0.003	0.003
		Vz	0.096	0.096	0.096
		Mt	0.00	0.00	0.00
		My	-0.14	-0.16	-0.18
		Mz	0.00	0.00	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N129/N130	Peso próprio	N	2.636	2.636	2.636	2.636	2.636	2.636	2.636	2.636	2.636
		Vy	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Vz	-13.399	-12.514	-11.630	-11.187	-10.303	-9.418	-8.533	-8.091	-7.206
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	29.18	34.74	39.91	42.35	46.96	51.19	55.03	56.81	60.09
		Mz	-0.07	-0.09	-0.11	-0.12	-0.13	-0.15	-0.17	-0.17	-0.19
	Guarda Corpo	N	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	1.389	1.389	1.389	1.389	1.389	1.389	1.389	1.389	1.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	23.21	22.61	22.02	21.72	21.12	20.53	19.93	19.64	19.04
		Mz	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06	-0.06	-0.07
	Laje	N	3.388	3.388	3.388	3.388	3.388	3.388	3.388	3.388	3.388
		Vy	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
		Vz	-60.424	-51.969	-43.514	-39.287	-30.832	-22.377	-13.922	-9.695	-1.240
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	150.15	174.23	194.69	203.56	218.59	229.99	237.77	240.30	242.64
		Mz	-0.26	-0.32	-0.38	-0.41	-0.47	-0.53	-0.59	-0.62	-0.68
	Pavimentação	N	1.964	1.964	1.964	1.964	1.964	1.964	1.964	1.964	1.964
		Vy	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Vz	-36.827	-31.642	-26.456	-23.863	-18.677	-13.492	-8.306	-5.713	-0.527
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	82.99	97.66	110.11	115.51	124.62	131.51	136.19	137.69	139.02

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	-0.15	-0.18	-0.22	-0.24	-0.27	-0.30	-0.34	-0.35	-0.39
	Recapeamento	N	0.869	0.869	0.869	0.869	0.869	0.869	0.869	0.869	0.869
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	-16.301	-14.047	-11.792	-10.665	-8.410	-6.155	-3.901	-2.774	-0.519
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.89	43.39	48.93	51.34	55.42	58.55	60.70	61.42	62.12
		Mz	-0.07	-0.08	-0.10	-0.10	-0.12	-0.13	-0.15	-0.16	-0.17
	Vento 0	N	54.881	54.881	54.881	54.881	54.881	54.881	54.881	54.881	54.881
		Vy	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358
		Vz	-9.698	-9.698	-9.698	-9.698	-9.698	-9.698	-9.698	-9.698	-9.698
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.43	22.58	26.74	28.82	32.97	37.13	41.29	43.36	47.52
		Mz	0.68	0.83	0.99	1.06	1.22	1.37	1.52	1.60	1.75
	Vento 180	N	-48.582	-48.582	-48.582	-48.582	-48.582	-48.582	-48.582	-48.582	-48.582
		Vy	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355
		Vz	10.982	10.982	10.982	10.982	10.982	10.982	10.982	10.982	10.982
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-20.87	-25.57	-30.28	-32.63	-37.34	-42.04	-46.75	-49.10	-53.81
		Mz	-0.67	-0.83	-0.98	-1.05	-1.21	-1.36	-1.51	-1.59	-1.74
	Multidão (Passeio)	N	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.28	12.93	12.59	12.42	12.08	11.73	11.39	11.22	10.88
		Mz	-0.02	-0.03	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06
	Multidão - TB450	N	2.759	2.759	2.759	2.759	2.759	2.759	2.759	2.759	2.759
		Vy	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
		Vz	-53.188	-45.973	-38.758	-35.151	-27.936	-20.721	-13.506	-9.899	-2.684
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	101.06	122.31	140.46	148.38	161.90	172.33	179.66	182.17	184.87
		Mz	-0.19	-0.23	-0.27	-0.29	-0.33	-0.38	-0.42	-0.44	-0.48
	TB-450-A1	N	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110	-0.110
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.21	0.26	0.30	0.33	0.37	0.42	0.47	0.49	0.54
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.30	0.37	0.43	0.47	0.53	0.60	0.67	0.70	0.77
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.08	0.10	0.11	0.12	0.14	0.15	0.16	0.17
		Mz	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04	-0.04	-0.04	-0.05
	TB-450-B2	N	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091	-0.091
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.22	0.27	0.32	0.34	0.39	0.44	0.49	0.51	0.56
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
	TB-450-C1	N	5.712	5.712	5.712	5.712	5.712	5.712	5.712	5.712	5.712
		Vy	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Vz	-106.065	-81.264	-56.463	-44.062	-19.261	5.540	30.341	42.742	67.543
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	201.52	241.66	271.18	281.95	295.52	298.46	290.77	282.94	259.31
		Mz	-0.36	-0.44	-0.52	-0.56	-0.64	-0.72	-0.80	-0.84	-0.92
	TB-450-C2	N	2.711	2.711	2.711	2.711	2.711	2.711	2.711	2.711	2.711
		Vy	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Vz	-38.827	-38.827	-38.827	-38.827	-38.827	-38.827	-38.827	-38.827	-38.827
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	73.77	90.41	107.05	115.37	132.01	148.65	165.29	173.61	190.25
		Mz	-0.07	-0.09	-0.11	-0.11	-0.13	-0.15	-0.16	-0.17	-0.19
	TB-450-D1	N	-0.324	-0.324	-0.324	-0.324	-0.324	-0.324	-0.324	-0.324	-0.324
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.24	0.29	0.35	0.37	0.43	0.48	0.54	0.56	0.62
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
	TB-450-D2	N	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06	-0.06	-0.07

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03
	TB-450-E1	N	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-E2	N	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.18	-0.22	-0.27	-0.29	-0.33	-0.37	-0.41	-0.43	-0.47
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N130/N82	Peso próprio	N	2.636	2.636	2.636	2.636	2.636
		Vy	0.039	0.039	0.039	0.039	0.039
		Vz	-7.206	-6.781	-6.355	-5.929	-5.504
		Mt	0.00	0.00	0.00	0.00	0.00
		My	60.09	61.53	62.89	64.15	65.33
		Mz	-0.19	-0.20	-0.21	-0.21	-0.22
	Guarda Corpo	N	0.256	0.256	0.256	0.256	0.256
		Vy	0.014	0.014	0.014	0.014	0.014
		Vz	1.389	1.389	1.389	1.389	1.389
		Mt	0.00	0.00	0.00	0.00	0.00
		My	19.04	18.75	18.47	18.18	17.90
		Mz	-0.07	-0.07	-0.08	-0.08	-0.08
	Laje	N	3.388	3.388	3.388	3.388	3.388
		Vy	0.139	0.139	0.139	0.139	0.139
		Vz	-1.240	2.829	6.898	10.967	15.036
		Mt	0.00	0.00	0.00	0.00	0.00
		My	242.64	242.48	241.48	239.63	236.95
		Mz	-0.68	-0.71	-0.74	-0.77	-0.80

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	Pavimentação	N	1.964	1.964	1.964	1.964	1.964
		Vy	0.079	0.079	0.079	0.079	0.079
		Vz	-0.527	1.860	4.247	6.634	9.021
		Mt	0.00	0.00	0.00	0.00	0.00
		My	139.02	138.89	138.26	137.14	135.52
		Mz	-0.39	-0.40	-0.42	-0.44	-0.45
	Recapeamento	N	0.869	0.869	0.869	0.869	0.869
		Vy	0.035	0.035	0.035	0.035	0.035
		Vz	-0.519	0.566	1.651	2.736	3.821
		Mt	0.00	0.00	0.00	0.00	0.00
		My	62.12	62.12	61.89	61.44	60.76
		Mz	-0.17	-0.18	-0.19	-0.19	-0.20
	Vento 0	N	54.881	54.881	54.881	54.881	54.881
		Vy	-0.358	-0.358	-0.358	-0.358	-0.358
		Vz	-9.698	-9.698	-9.698	-9.698	-9.698
		Mt	0.00	0.00	0.00	0.00	0.00
		My	47.52	49.52	51.52	53.52	55.52
		Mz	1.75	1.83	1.90	1.97	2.05
	Vento 180	N	-48.582	-48.582	-48.582	-48.582	-48.582
		Vy	0.355	0.355	0.355	0.355	0.355
		Vz	10.982	10.982	10.982	10.982	10.982
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-53.81	-56.08	-58.34	-60.61	-62.87
		Mz	-1.74	-1.81	-1.88	-1.96	-2.03
	Multidão (Passeio)	N	0.017	0.017	0.017	0.017	0.017
		Vy	0.011	0.011	0.011	0.011	0.011
		Vz	0.800	0.800	0.800	0.800	0.800
		Mt	0.00	0.00	0.00	0.00	0.00
		My	10.88	10.71	10.55	10.38	10.22
		Mz	-0.06	-0.06	-0.06	-0.06	-0.06
	Multidão - TB450	N	2.759	2.759	2.759	2.759	2.759
		Vy	0.098	0.098	0.098	0.098	0.098
		Vz	-2.684	0.788	4.260	7.732	11.204
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	184.87	185.06	184.54	183.30	181.35
		Mz	-0.48	-0.50	-0.52	-0.54	-0.56
	TB-450-A1	N	0.734	0.734	0.734	0.734	0.734
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-0.110	-0.110	-0.110	-0.110	-0.110
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.54	0.56	0.59	0.61	0.63
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.651	0.651	0.651	0.651	0.651
		Vy	0.001	0.001	0.001	0.001	0.001
		Vz	-0.157	-0.157	-0.157	-0.157	-0.157
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.77	0.80	0.83	0.87	0.90
		Mz	0.00	-0.01	-0.01	-0.01	-0.01
	TB-450-B1	N	-0.563	-0.563	-0.563	-0.563	-0.563
		Vy	0.010	0.010	0.010	0.010	0.010
		Vz	-0.035	-0.035	-0.035	-0.035	-0.035
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.17	0.18	0.19	0.20	0.20
		Mz	-0.05	-0.05	-0.05	-0.05	-0.06
	TB-450-B2	N	-0.091	-0.091	-0.091	-0.091	-0.091
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.115	-0.115	-0.115	-0.115	-0.115
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.56	0.59	0.61	0.63	0.66
		Mz	0.02	0.02	0.02	0.02	0.02
	TB-450-C1	N	5.712	5.712	5.712	5.712	5.712
		Vy	0.187	0.187	0.187	0.187	0.187
		Vz	67.543	67.543	67.543	67.543	67.543
		Mt	0.00	0.00	0.00	0.00	0.00
		My	259.31	245.38	231.44	217.51	203.58
		Mz	-0.92	-0.96	-1.00	-1.03	-1.07
	TB-450-C2	N	2.711	2.711	2.711	2.711	2.711
		Vy	0.039	0.039	0.039	0.039	0.039

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	-38.827	-38.827	-38.827	-38.827	-38.827
		Mt	0.00	0.00	0.00	0.00	0.00
		My	190.25	198.26	206.27	214.27	222.28
		Mz	-0.19	-0.20	-0.20	-0.21	-0.22
	TB-450-D1	N	-0.324	-0.324	-0.324	-0.324	-0.324
		Vy	0.003	0.003	0.003	0.003	0.003
		Vz	-0.126	-0.126	-0.126	-0.126	-0.126
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.62	0.64	0.67	0.70	0.72
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-D2	N	-0.096	-0.096	-0.096	-0.096	-0.096
		Vy	0.006	0.006	0.006	0.006	0.006
		Vz	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.07	-0.07	-0.07	-0.08
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03
	TB-450-E1	N	-0.444	-0.444	-0.444	-0.444	-0.444
		Vy	0.003	0.003	0.003	0.003	0.003
		Vz	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	-0.01	-0.02	-0.02	-0.02	-0.02
	TB-450-E2	N	-1.029	-1.029	-1.029	-1.029	-1.029
		Vy	0.003	0.003	0.003	0.003	0.003
		Vz	0.096	0.096	0.096	0.096	0.096
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.47	-0.49	-0.51	-0.53	-0.55
		Mz	-0.01	-0.01	-0.01	-0.02	-0.02

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N82/N133	Peso próprio	N	3.703	3.703	3.703	3.703	3.703

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	5.476	5.902	6.328	6.753	7.179
		Mt	0.00	0.00	0.00	0.00	0.00
		My	65.18	64.00	62.74	61.39	59.96
		Mz	-0.10	-0.10	-0.09	-0.09	-0.08
	Guarda Corpo	N	1.370	1.370	1.370	1.370	1.370
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-1.397	-1.397	-1.397	-1.397	-1.397
		Mt	0.00	0.00	0.00	0.00	0.00
		My	17.85	18.14	18.42	18.71	19.00
		Mz	-0.05	-0.05	-0.05	-0.04	-0.04
	Laje	N	15.543	15.543	15.543	15.543	15.543
		Vy	-0.106	-0.106	-0.106	-0.106	-0.106
		Vz	-15.083	-11.014	-6.945	-2.876	1.193
		Mt	0.00	0.00	0.00	0.00	0.00
		My	236.68	239.38	241.23	242.24	242.41
		Mz	-0.61	-0.59	-0.57	-0.54	-0.52
	Pavimentação	N	8.838	8.838	8.838	8.838	8.838
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	-8.078	-5.691	-3.304	-0.917	1.470
		Mt	0.00	0.00	0.00	0.00	0.00
		My	135.55	136.97	137.90	138.33	138.28
		Mz	-0.35	-0.33	-0.32	-0.31	-0.30
	Recapeamento	N	3.959	3.959	3.959	3.959	3.959
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	-3.833	-2.748	-1.663	-0.577	0.508
		Mt	0.00	0.00	0.00	0.00	0.00
		My	60.69	61.37	61.83	62.06	62.07
		Mz	-0.16	-0.15	-0.14	-0.14	-0.13
	Vento 0	N	4.114	4.114	4.114	4.114	4.114
		Vy	-0.243	-0.243	-0.243	-0.243	-0.243
		Vz	-10.631	-10.631	-10.631	-10.631	-10.631
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-60.86	-58.67	-56.48	-54.29	-52.09

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	-1.39	-1.34	-1.29	-1.24	-1.19
	Vento 180	N	4.584	4.584	4.584	4.584	4.584
		Vy	0.245	0.245	0.245	0.245	0.245
		Vz	9.351	9.351	9.351	9.351	9.351
		Mt	0.00	0.00	0.00	0.00	0.00
		My	53.53	51.60	49.67	47.75	45.82
		Mz	1.40	1.35	1.30	1.25	1.20
	Multidão (Passeio)	N	0.639	0.639	0.639	0.639	0.639
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.814	-0.814	-0.814	-0.814	-0.814
		Mt	0.00	0.00	0.00	0.00	0.00
		My	10.14	10.31	10.47	10.64	10.81
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01
	Multidão - TB450	N	11.852	11.852	11.852	11.852	11.852
		Vy	-0.085	-0.085	-0.085	-0.085	-0.085
		Vz	-11.223	-7.751	-4.278	-0.806	2.666
		Mt	0.00	0.00	0.00	0.00	0.00
		My	181.25	183.20	184.44	184.97	184.78
		Mz	-0.49	-0.47	-0.45	-0.43	-0.42
	TB-450-A1	N	-0.408	-0.408	-0.408	-0.408	-0.408
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.111	-0.111	-0.111	-0.111	-0.111
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.63	-0.61	-0.59	-0.57	-0.54
		Mz	-0.11	-0.10	-0.10	-0.10	-0.09
	TB-450-A2	N	-0.241	-0.241	-0.241	-0.241	-0.241
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.072	-0.072	-0.072	-0.072	-0.072
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.41	-0.40	-0.38	-0.37	-0.35
		Mz	-0.11	-0.10	-0.10	-0.10	-0.09
	TB-450-B1	N	-0.115	-0.115	-0.115	-0.115	-0.115
		Vy	0.042	0.042	0.042	0.042	0.042
		Vz	-0.016	-0.016	-0.016	-0.016	-0.016

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.09	-0.08	-0.08	-0.08
		Mz	0.24	0.23	0.22	0.21	0.21
	TB-450-B2	N	-0.420	-0.420	-0.420	-0.420	-0.420
		Vy	0.029	0.029	0.029	0.029	0.029
		Vz	0.103	0.103	0.103	0.103	0.103
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.59	0.57	0.55	0.53	0.51
		Mz	0.16	0.16	0.15	0.15	0.14
	TB-450-C1	N	13.994	13.994	13.994	13.994	13.994
		Vy	-0.082	-0.082	-0.082	-0.082	-0.082
		Vz	38.865	38.865	38.865	38.865	38.865
		Mt	0.00	0.00	0.00	0.00	0.00
		My	222.50	214.49	206.47	198.45	190.44
		Mz	-0.47	-0.45	-0.44	-0.42	-0.40
	TB-450-C2	N	17.524	17.524	17.524	17.524	17.524
		Vy	-0.194	-0.194	-0.194	-0.194	-0.194
		Vz	-67.503	-67.503	-67.503	-67.503	-67.503
		Mt	0.00	0.00	0.00	0.00	0.00
		My	203.81	217.73	231.65	245.58	259.50
		Mz	-1.11	-1.07	-1.03	-0.99	-0.95
	TB-450-D1	N	-0.232	-0.232	-0.232	-0.232	-0.232
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	0.081	0.081	0.081	0.081	0.081
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.47	0.45	0.43	0.41	0.40
		Mz	-0.10	-0.10	-0.09	-0.09	-0.09
	TB-450-D2	N	-0.514	-0.514	-0.514	-0.514	-0.514
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01
		Mz	-0.07	-0.07	-0.07	-0.06	-0.06
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	0.025	0.025	0.025	0.025	0.025
		Vz	0.078	0.078	0.078	0.078	0.078
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.44	0.43	0.41	0.40	0.38
		Mz	0.14	0.14	0.13	0.13	0.12
	TB-450-E2	N	0.200	0.200	0.200	0.200	0.200
		Vy	0.029	0.029	0.029	0.029	0.029
		Vz	0.105	0.105	0.105	0.105	0.105
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.60	0.58	0.56	0.54	0.52
		Mz	0.17	0.16	0.16	0.15	0.14

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N133/N132	Peso próprio	N	3.703	3.703	3.703	3.703	3.703	3.703	3.703	3.703	3.703
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	7.179	8.064	8.948	9.390	10.275	11.160	12.044	12.487	13.371
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	59.96	56.69	53.04	51.08	46.87	42.27	37.30	34.67	29.13
		Mz	-0.08	-0.08	-0.07	-0.07	-0.06	-0.05	-0.04	-0.04	-0.03
	Guarda Corpo	N	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-1.397	-1.397	-1.397	-1.397	-1.397	-1.397	-1.397	-1.397	-1.397
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.00	19.60	20.20	20.50	21.10	21.70	22.29	22.59	23.19
		Mz	-0.04	-0.04	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02
	Laje	N	15.543	15.543	15.543	15.543	15.543	15.543	15.543	15.543	15.543
		Vy	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106
		Vz	1.193	9.648	18.103	22.330	30.785	39.240	47.695	51.923	60.377
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	242.41	240.09	234.14	229.81	218.43	203.42	184.80	174.12	150.06
		Mz	-0.52	-0.48	-0.43	-0.41	-0.36	-0.32	-0.27	-0.25	-0.20
	Pavimentação	N	8.838	8.838	8.838	8.838	8.838	8.838	8.838	8.838	8.838
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	1.470	6.430	11.390	13.871	18.831	23.791	28.751	31.231	36.192
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	138.28	136.58	132.77	130.06	123.05	113.92	102.66	96.23	81.78
		Mz	-0.30	-0.27	-0.25	-0.23	-0.21	-0.18	-0.15	-0.14	-0.12
	Recapeamento	N	3.959	3.959	3.959	3.959	3.959	3.959	3.959	3.959	3.959
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	0.508	2.762	5.017	6.144	8.399	10.653	12.908	14.035	16.290
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	62.07	61.37	59.70	58.50	55.39	51.30	46.25	43.37	36.87
		Mz	-0.13	-0.12	-0.11	-0.10	-0.09	-0.08	-0.07	-0.06	-0.05
	Vento 0	N	4.114	4.114	4.114	4.114	4.114	4.114	4.114	4.114	4.114
		Vy	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243
		Vz	-10.631	-10.631	-10.631	-10.631	-10.631	-10.631	-10.631	-10.631	-10.631
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-52.09	-47.54	-42.98	-40.70	-36.15	-31.59	-27.03	-24.76	-20.20
		Mz	-1.19	-1.08	-0.98	-0.93	-0.82	-0.72	-0.62	-0.56	-0.46
	Vento 180	N	4.584	4.584	4.584	4.584	4.584	4.584	4.584	4.584	4.584
		Vy	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245
		Vz	9.351	9.351	9.351	9.351	9.351	9.351	9.351	9.351	9.351
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	45.82	41.81	37.80	35.80	31.79	27.78	23.78	21.77	17.77
		Mz	1.20	1.09	0.99	0.94	0.83	0.73	0.62	0.57	0.47
	Multidão (Passeio)	N	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814	-0.814
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.81	11.16	11.51	11.68	12.03	12.38	12.73	12.90	13.25
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Multidão - TB450	N	11.852	11.852	11.852	11.852	11.852	11.852	11.852	11.852	11.852
		Vy	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085
		Vz	2.666	9.881	17.096	20.703	27.918	35.133	42.348	45.955	53.170
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	184.78	182.09	176.31	172.26	161.84	148.33	131.73	122.26	101.02
		Mz	-0.42	-0.38	-0.34	-0.32	-0.29	-0.25	-0.22	-0.20	-0.16
	TB-450-A1	N	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.54	-0.50	-0.45	-0.42	-0.38	-0.33	-0.28	-0.26	-0.21
		Mz	-0.09	-0.08	-0.08	-0.07	-0.06	-0.06	-0.05	-0.04	-0.04
	TB-450-A2	N	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.35	-0.32	-0.29	-0.28	-0.25	-0.21	-0.18	-0.17	-0.14
		Mz	-0.09	-0.08	-0.08	-0.07	-0.06	-0.06	-0.05	-0.04	-0.04
	TB-450-B1	N	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115
		Vy	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
		Vz	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.07	-0.06	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03
		Mz	0.21	0.19	0.17	0.16	0.14	0.12	0.11	0.10	0.08
	TB-450-B2	N	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.51	0.46	0.42	0.40	0.35	0.31	0.26	0.24	0.20
		Mz	0.14	0.13	0.12	0.11	0.10	0.09	0.07	0.07	0.05
	TB-450-C1	N	13.994	13.994	13.994	13.994	13.994	13.994	13.994	13.994	13.994
		Vy	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vz	38.865	38.865	38.865	38.865	38.865	38.865	38.865	38.865	38.865
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	190.44	173.78	157.13	148.80	132.14	115.48	98.83	90.50	73.84
		Mz	-0.40	-0.37	-0.33	-0.31	-0.28	-0.24	-0.21	-0.19	-0.16
	TB-450-C2	N	17.524	17.524	17.524	17.524	17.524	17.524	17.524	17.524	17.524
		Vy	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194
		Vz	-67.503	-42.702	-17.901	-5.501	19.301	44.102	68.903	81.303	106.104
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	259.50	283.12	296.10	298.61	295.65	282.07	257.85	241.76	201.60
		Mz	-0.95	-0.87	-0.78	-0.74	-0.66	-0.58	-0.49	-0.45	-0.37
	TB-450-D1	N	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.40	0.36	0.33	0.31	0.28	0.24	0.21	0.19	0.15
		Mz	-0.09	-0.08	-0.07	-0.07	-0.06	-0.05	-0.05	-0.04	-0.03
	TB-450-D2	N	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
		Mz	-0.06	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03	-0.02
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vz	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.38	0.35	0.31	0.30	0.26	0.23	0.20	0.18	0.15
		Mz	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05
	TB-450-E2	N	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.52	0.47	0.43	0.40	0.36	0.31	0.27	0.24	0.20
		Mz	0.14	0.13	0.12	0.11	0.10	0.09	0.07	0.07	0.06

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N132/N131	Peso próprio	N	3.703	3.703	3.703
		Vy	-0.017	-0.017	-0.017
		Vz	13.371	13.784	14.197
		Mt	0.00	0.00	0.00
		My	29.13	26.42	23.62
		Mz	-0.03	-0.03	-0.03
	Guarda Corpo	N	1.370	1.370	1.370
		Vy	-0.008	-0.008	-0.008
		Vz	-1.397	6.205	13.807
		Mt	0.00	0.00	0.00
		My	23.19	22.71	20.71
		Mz	-0.02	-0.01	-0.01
	Laje	N	15.543	15.543	15.543
		Vy	-0.106	-0.106	-0.106
		Vz	60.377	64.244	68.111
		Mt	0.00	0.00	0.00
		My	150.06	137.60	124.36
		Mz	-0.20	-0.18	-0.16

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Pavimentação	N	8.838	8.838	8.838
		Vy	-0.061	-0.061	-0.061
		Vz	36.192	36.192	36.192
		Mt	0.00	0.00	0.00
		My	81.78	74.55	67.31
		Mz	-0.12	-0.10	-0.09
	Recapeamento	N	3.959	3.959	3.959
		Vy	-0.027	-0.027	-0.027
		Vz	16.290	16.290	16.290
		Mt	0.00	0.00	0.00
		My	36.87	33.61	30.35
		Mz	-0.05	-0.05	-0.04
	Vento 0	N	4.114	4.114	4.114
		Vy	-0.243	-0.243	-0.243
		Vz	-10.631	-10.631	-10.631
		Mt	0.00	0.00	0.00
		My	-20.20	-18.07	-15.95
		Mz	-0.46	-0.41	-0.36
	Vento 180	N	4.584	4.584	4.584
		Vy	0.245	0.245	0.245
		Vz	9.351	9.351	9.351
		Mt	0.00	0.00	0.00
		My	17.77	15.90	14.03
		Mz	0.47	0.42	0.37
	Multidão (Passeio)	N	0.639	0.639	0.639
		Vy	-0.002	-0.002	-0.002
		Vz	-0.814	-0.814	-0.814
		Mt	0.00	0.00	0.00
		My	13.25	13.41	13.58
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	11.852	11.852	11.852
		Vy	-0.085	-0.085	-0.085
		Vz	53.170	53.170	53.170
		Mt	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	101.02	90.39	79.75
		Mz	-0.16	-0.14	-0.13
	TB-450-A1	N	-0.408	-0.408	-0.408
		Vy	-0.019	-0.019	-0.019
		Vz	-0.111	-0.111	-0.111
		Mt	0.00	0.00	0.00
		My	-0.21	-0.19	-0.17
		Mz	-0.04	-0.03	-0.03
	TB-450-A2	N	-0.241	-0.241	-0.241
		Vy	-0.019	-0.019	-0.019
		Vz	-0.072	-0.072	-0.072
		Mt	0.00	0.00	0.00
		My	-0.14	-0.12	-0.11
		Mz	-0.04	-0.03	-0.03
	TB-450-B1	N	-0.115	-0.115	-0.115
		Vy	0.042	0.042	0.042
		Vz	-0.016	-0.016	-0.016
		Mt	0.00	0.00	0.00
		My	-0.03	-0.03	-0.02
		Mz	0.08	0.07	0.06
	TB-450-B2	N	-0.420	-0.420	-0.420
		Vy	0.029	0.029	0.029
		Vz	0.103	0.103	0.103
		Mt	0.00	0.00	0.00
		My	0.20	0.18	0.15
		Mz	0.05	0.05	0.04
	TB-450-C1	N	13.994	13.994	13.994
		Vy	-0.082	-0.082	-0.082
		Vz	38.865	38.865	38.865
		Mt	0.00	0.00	0.00
		My	73.84	66.07	58.30
		Mz	-0.16	-0.14	-0.12
	TB-450-C2	N	17.524	17.524	17.524
		Vy	-0.194	-0.194	-0.194

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	106.104	106.104	106.104
		Mt	0.00	0.00	0.00
		My	201.60	180.38	159.16
		Mz	-0.37	-0.33	-0.29
	TB-450-D1	N	-0.232	-0.232	-0.232
		Vy	-0.018	-0.018	-0.018
		Vz	0.081	0.081	0.081
		Mt	0.00	0.00	0.00
		My	0.15	0.14	0.12
		Mz	-0.03	-0.03	-0.03
	TB-450-D2	N	-0.514	-0.514	-0.514
		Vy	-0.012	-0.012	-0.012
		Vz	0.002	0.002	0.002
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	-0.02	-0.02	-0.02
	TB-450-E1	N	-0.002	-0.002	-0.002
		Vy	0.025	0.025	0.025
		Vz	0.078	0.078	0.078
		Mt	0.00	0.00	0.00
		My	0.15	0.13	0.12
		Mz	0.05	0.04	0.04
	TB-450-E2	N	0.200	0.200	0.200
		Vy	0.029	0.029	0.029
		Vz	0.105	0.105	0.105
		Mt	0.00	0.00	0.00
		My	0.20	0.18	0.16
		Mz	0.06	0.05	0.04

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N131/N10	Peso próprio	N	3.703	3.703	3.703	3.703	3.703	3.703	3.703	3.703	3.703
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	14.197	14.584	14.971	15.358	15.745	16.132	16.519	16.906	17.293
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	23.62	20.92	18.15	15.31	12.39	9.40	6.34	3.21	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	Guarda Corpo	N	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	13.807	13.807	13.807	13.807	13.807	13.807	13.807	13.807	13.807
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.71	18.12	15.53	12.94	10.36	7.77	5.18	2.59	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Laje	N	15.543	15.543	15.543	15.543	15.543	15.543	15.543	15.543	15.543
		Vy	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106
		Vz	68.111	71.810	75.509	79.208	82.907	86.606	90.305	94.004	97.703
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	124.36	111.24	97.43	82.93	67.73	51.84	35.25	17.97	0.00
		Mz	-0.16	-0.14	-0.12	-0.10	-0.08	-0.06	-0.04	-0.02	0.00
	Pavimentação	N	8.838	8.838	8.838	8.838	8.838	8.838	8.838	8.838	8.838
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	36.192	38.362	40.532	42.702	44.872	47.042	49.212	51.382	53.552
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	67.31	60.32	52.92	45.12	36.91	28.29	19.27	9.84	0.00
		Mz	-0.09	-0.08	-0.07	-0.06	-0.05	-0.03	-0.02	-0.01	0.00
	Recapeamento	N	3.959	3.959	3.959	3.959	3.959	3.959	3.959	3.959	3.959
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	16.290	17.277	18.263	19.249	20.236	21.222	22.209	23.195	24.181
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	30.35	27.21	23.87	20.36	16.66	12.77	8.70	4.44	0.00
		Mz	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Vento 0	N	4.114	4.114	4.114	4.114	4.114	4.114	4.114	4.114	4.114
		Vy	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243
		Vz	-10.631	-10.631	-10.631	-10.631	-10.631	-10.631	-10.631	-10.631	-10.631
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.95	-13.95	-11.96	-9.97	-7.97	-5.98	-3.99	-1.99	0.00
		Mz	-0.36	-0.32	-0.27	-0.23	-0.18	-0.14	-0.09	-0.05	0.00
	Vento 180	N	4.584	4.584	4.584	4.584	4.584	4.584	4.584	4.584	4.584
		Vy	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245
		Vz	9.351	9.351	9.351	9.351	9.351	9.351	9.351	9.351	9.351
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.03	12.27	10.52	8.77	7.01	5.26	3.51	1.75	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.37	0.32	0.28	0.23	0.18	0.14	0.09	0.05	0.00
	Multidão (Passeio)	N	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.814	1.652	4.118	6.584	9.050	11.516	13.982	16.448	18.914
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.58	13.50	12.96	11.95	10.49	8.56	6.17	3.32	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	11.852	11.852	11.852	11.852	11.852	11.852	11.852	11.852	11.852
		Vy	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085
		Vz	53.170	53.170	53.170	53.170	53.170	53.170	53.170	53.170	53.170
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	79.75	69.79	59.82	49.85	39.88	29.91	19.94	9.97	0.00
		Mz	-0.13	-0.11	-0.10	-0.08	-0.06	-0.05	-0.03	-0.02	0.00
	TB-450-A1	N	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408	-0.408
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.17	-0.15	-0.12	-0.10	-0.08	-0.06	-0.04	-0.02	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-A2	N	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241	-0.241
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.11	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-B1	N	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115
		Vy	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
		Vz	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.00
	TB-450-B2	N	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.14	0.12	0.10	0.08	0.06	0.04	0.02	0.00
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	TB-450-C1	N	13.994	13.994	13.994	13.994	13.994	13.994	13.994	13.994	13.994
		Vy	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	38.865	38.865	38.865	38.865	38.865	38.865	38.865	38.865	38.865
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	58.30	51.01	43.72	36.44	29.15	21.86	14.57	7.29	0.00
		Mz	-0.12	-0.11	-0.09	-0.08	-0.06	-0.05	-0.03	-0.02	0.00
	TB-450-C2	N	17.524	17.524	17.524	17.524	17.524	17.524	17.524	17.524	17.524
		Vy	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194
		Vz	106.104	106.104	106.104	106.104	106.104	106.104	106.104	106.104	106.104
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	159.16	139.26	119.37	99.47	79.58	59.68	39.79	19.89	0.00
		Mz	-0.29	-0.25	-0.22	-0.18	-0.15	-0.11	-0.07	-0.04	0.00
	TB-450-D1	N	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.12	0.11	0.09	0.08	0.06	0.05	0.03	0.02	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-D2	N	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-E1	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vz	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.00
		Mz	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
	TB-450-E2	N	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.16	0.14	0.12	0.10	0.08	0.06	0.04	0.02	0.00
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N4/N122	Peso próprio	N	-4.646	-4.646	-4.646	-4.646	-4.646	-4.646	-4.646	-4.646	-4.646

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-12.189	-11.802	-11.415	-11.028	-10.641	-10.254	-9.867	-9.480	-9.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.25	4.43	6.53	8.56	10.52	12.41	14.22	15.96
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.06
	Guarda Corpo	N	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408
		Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz	-15.245	-15.245	-15.245	-15.245	-15.245	-15.245	-15.245	-15.245	-15.245
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.86	5.72	8.58	11.43	14.29	17.15	20.01	22.87
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
	Laje	N	-6.995	-6.995	-6.995	-6.995	-6.995	-6.995	-6.995	-6.995	-6.995
		Vy	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364
		Vz	-112.998	-109.284	-105.571	-101.857	-98.144	-94.430	-90.716	-87.003	-83.289
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	20.84	40.98	60.43	79.18	97.23	114.59	131.25	147.22
		Mz	0.00	-0.07	-0.14	-0.20	-0.27	-0.34	-0.41	-0.48	-0.55
	Pavimentação	N	-3.634	-3.634	-3.634	-3.634	-3.634	-3.634	-3.634	-3.634	-3.634
		Vy	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203
		Vz	-62.247	-60.068	-57.890	-55.711	-53.532	-51.354	-49.175	-46.996	-44.818
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.47	22.53	33.18	43.42	53.25	62.67	71.69	80.30
		Mz	0.00	-0.04	-0.08	-0.11	-0.15	-0.19	-0.23	-0.27	-0.30
	Recapeamento	N	-1.670	-1.670	-1.670	-1.670	-1.670	-1.670	-1.670	-1.670	-1.670
		Vy	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
		Vz	-28.044	-27.053	-26.063	-25.073	-24.082	-23.092	-22.102	-21.112	-20.121
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.17	10.14	14.94	19.55	23.97	28.21	32.26	36.12
		Mz	0.00	-0.02	-0.03	-0.05	-0.07	-0.09	-0.10	-0.12	-0.14
	Vento 0	N	15.281	15.281	15.281	15.281	15.281	15.281	15.281	15.281	15.281
		Vy	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
		Vz	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.11	0.21	0.32	0.43	0.54	0.64	0.75	0.86
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.09
	Vento 180	N	-9.635	-9.635	-9.635	-9.635	-9.635	-9.635	-9.635	-9.635	-9.635
		Vy	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
		Vz	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.00	-0.12	-0.24	-0.37	-0.49	-0.61	-0.73	-0.85	-0.97
		Mz	0.00	-0.01	-0.03	-0.04	-0.05	-0.07	-0.08	-0.09	-0.10
	Multidão (Passeio)	N	-2.562	-2.562	-2.562	-2.562	-2.562	-2.562	-2.562	-2.562	-2.562
		Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vz	-19.819	-17.344	-14.868	-12.392	-9.916	-7.441	-4.965	-2.489	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.48	6.50	9.06	11.15	12.78	13.94	14.64	14.87
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.05
	Multidão - TB450	N	-2.065	-2.065	-2.065	-2.065	-2.065	-2.065	-2.065	-2.065	-2.065
		Vy	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254
		Vz	-64.371	-64.371	-64.371	-64.371	-64.371	-64.371	-64.371	-64.371	-64.371
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	12.07	24.14	36.21	48.28	60.35	72.42	84.49	96.56
		Mz	0.00	-0.05	-0.10	-0.14	-0.19	-0.24	-0.29	-0.33	-0.38
	TB-450-A1	N	-2.726	-2.726	-2.726	-2.726	-2.726	-2.726	-2.726	-2.726	-2.726
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	TB-450-A2	N	-2.777	-2.777	-2.777	-2.777	-2.777	-2.777	-2.777	-2.777	-2.777
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	TB-450-B1	N	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	TB-450-B2	N	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	4.458	4.458	4.458	4.458	4.458	4.458	4.458	4.458	4.458

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
		Vz	-60.598	-60.598	-60.598	-60.598	-60.598	-60.598	-60.598	-60.598	-60.598
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.36	22.72	34.09	45.45	56.81	68.17	79.53	90.90
		Mz	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08
	TB-450-C2	N	4.666	4.666	4.666	4.666	4.666	4.666	4.666	4.666	4.666
		Vy	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
		Vz	-25.315	-25.315	-25.315	-25.315	-25.315	-25.315	-25.315	-25.315	-25.315
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.75	9.49	14.24	18.99	23.73	28.48	33.23	37.97
		Mz	0.00	-0.01	-0.03	-0.04	-0.05	-0.07	-0.08	-0.10	-0.11
	TB-450-D1	N	-5.415	-5.415	-5.415	-5.415	-5.415	-5.415	-5.415	-5.415	-5.415
		Vy	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273
		Vz	-25.747	-25.747	-25.747	-25.747	-25.747	-25.747	-25.747	-25.747	-25.747
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.83	9.66	14.48	19.31	24.14	28.97	33.79	38.62
		Mz	0.00	-0.05	-0.10	-0.15	-0.20	-0.26	-0.31	-0.36	-0.41
	TB-450-D2	N	-4.858	-4.858	-4.858	-4.858	-4.858	-4.858	-4.858	-4.858	-4.858
		Vy	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270
		Vz	-61.309	-61.309	-61.309	-61.309	-61.309	-61.309	-61.309	-61.309	-61.309
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.50	22.99	34.49	45.98	57.48	68.97	80.47	91.96
		Mz	0.00	-0.05	-0.10	-0.15	-0.20	-0.25	-0.30	-0.35	-0.41
	TB-450-E1	N	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.04	0.08	0.12	0.17	0.21	0.25	0.29	0.33
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
	TB-450-E2	N	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.05	0.10	0.16	0.21	0.26	0.31	0.36	0.41
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04

Esforços em barras, por hipóteses/ações			
Barra	Hipótese	Esforço	Posições na barra

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

			0.000 m	0.200 m	0.400 m
N122/N123	Peso próprio	N	-4.646	-4.646	-4.646
		Vy	0.037	0.037	0.037
		Vz	-9.093	-8.680	-8.267
		Mt	0.00	0.00	0.00
		My	15.96	17.74	19.43
		Mz	-0.06	-0.06	-0.07
	Guarda Corpo	N	-1.408	-1.408	-1.408
		Vy	0.038	0.038	0.038
		Vz	-15.245	-7.614	0.018
		Mt	0.00	0.00	0.00
		My	22.87	25.15	25.91
		Mz	-0.06	-0.06	-0.07
	Laje	N	-6.995	-6.995	-6.995
		Vy	0.364	0.364	0.364
		Vz	-83.289	-79.368	-75.446
		Mt	0.00	0.00	0.00
		My	147.22	163.48	178.96
		Mz	-0.55	-0.62	-0.69
	Pavimentação	N	-3.634	-3.634	-3.634
		Vy	0.203	0.203	0.203
		Vz	-44.818	-44.818	-44.818
		Mt	0.00	0.00	0.00
		My	80.30	89.26	98.23
		Mz	-0.30	-0.34	-0.38
	Recapeamento	N	-1.670	-1.670	-1.670
		Vy	0.092	0.092	0.092
		Vz	-20.121	-20.121	-20.121
		Mt	0.00	0.00	0.00
		My	36.12	40.15	44.17
		Mz	-0.14	-0.16	-0.17
	Vento 0	N	15.281	15.281	15.281
		Vy	-0.058	-0.058	-0.058
		Vz	-0.572	-0.572	-0.572
		Mt	0.00	0.00	0.00
		My	0.86	0.97	1.09
		Mz	0.09	0.10	0.11

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Vento 180	N	-9.635	-9.635	-9.635
		Vy	0.070	0.070	0.070
		Vz	0.650	0.650	0.650
		Mt	0.00	0.00	0.00
		My	-0.97	-1.10	-1.23
		Mz	-0.10	-0.12	-0.13
	Multidão (Passeio)	N	-2.562	-2.562	-2.562
		Vy	0.031	0.031	0.031
		Vz	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00
		My	14.87	14.88	14.88
		Mz	-0.05	-0.05	-0.06
	Multidão - TB450	N	-2.065	-2.065	-2.065
		Vy	0.254	0.254	0.254
		Vz	-64.371	-64.371	-64.371
		Mt	0.00	0.00	0.00
		My	96.56	109.43	122.30
		Mz	-0.38	-0.43	-0.48
	TB-450-A1	N	-2.726	-2.726	-2.726
		Vy	0.016	0.016	0.016
		Vz	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00
		My	0.04	0.05	0.05
		Mz	-0.02	-0.03	-0.03
	TB-450-A2	N	-2.777	-2.777	-2.777
		Vy	0.016	0.016	0.016
		Vz	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00
		My	0.04	0.05	0.05
		Mz	-0.02	-0.03	-0.03
	TB-450-B1	N	-0.905	-0.905	-0.905
		Vy	0.003	0.003	0.003
		Vz	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	0.02	0.03	0.03
		Mz	-0.01	-0.01	-0.01
	TB-450-B2	N	-0.500	-0.500	-0.500
		Vy	0.001	0.001	0.001
		Vz	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00
		My	0.06	0.07	0.08
		Mz	0.00	0.00	0.00
	TB-450-C1	N	4.458	4.458	4.458
		Vy	0.056	0.056	0.056
		Vz	-60.598	-60.598	-60.598
		Mt	0.00	0.00	0.00
		My	90.90	103.02	115.14
		Mz	-0.08	-0.09	-0.11
	TB-450-C2	N	4.666	4.666	4.666
		Vy	0.073	0.073	0.073
		Vz	-25.315	-25.315	-25.315
		Mt	0.00	0.00	0.00
		My	37.97	43.03	48.10
		Mz	-0.11	-0.12	-0.14
	TB-450-D1	N	-5.415	-5.415	-5.415
		Vy	0.273	0.273	0.273
		Vz	-25.747	-25.747	-25.747
		Mt	0.00	0.00	0.00
		My	38.62	43.77	48.92
		Mz	-0.41	-0.46	-0.52
	TB-450-D2	N	-4.858	-4.858	-4.858
		Vy	0.270	0.270	0.270
		Vz	-61.309	-61.309	-61.309
		Mt	0.00	0.00	0.00
		My	91.96	104.23	116.49
		Mz	-0.41	-0.46	-0.51
	TB-450-E1	N	0.419	0.419	0.419
		Vy	-0.022	-0.022	-0.022

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	-0.221	-0.221	-0.221
		Mt	0.00	0.00	0.00
		My	0.33	0.38	0.42
		Mz	0.03	0.04	0.04
	TB-450-E2	N	0.663	0.663	0.663
		Vy	-0.028	-0.028	-0.028
		Vz	-0.277	-0.277	-0.277
		Mt	0.00	0.00	0.00
		My	0.41	0.47	0.53
		Mz	0.04	0.05	0.05

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N123/N124	Peso próprio	N	-4.646	-4.646	-4.646	-4.646	-4.646	-4.646	-4.646	-4.646	-4.646
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-8.267	-7.383	-6.498	-6.056	-5.171	-4.287	-3.402	-2.960	-2.075
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.43	22.79	25.76	27.11	29.51	31.54	33.19	33.87	34.95
		Mz	-0.07	-0.09	-0.10	-0.11	-0.13	-0.14	-0.16	-0.16	-0.18
	Guarda Corpo	N	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408	-1.408
		Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.91	25.91	25.90	25.89	25.89	25.88	25.87	25.87	25.86
		Mz	-0.07	-0.09	-0.10	-0.11	-0.13	-0.14	-0.16	-0.17	-0.18
	Laje	N	-6.995	-6.995	-6.995	-6.995	-6.995	-6.995	-6.995	-6.995	-6.995
		Vy	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364
		Vz	-75.446	-66.958	-58.469	-54.225	-45.737	-37.249	-28.761	-24.517	-16.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	178.96	209.48	236.35	248.43	269.85	287.63	301.78	307.49	316.17
		Mz	-0.69	-0.85	-1.00	-1.08	-1.24	-1.39	-1.55	-1.63	-1.78
	Pavimentação	N	-3.634	-3.634	-3.634	-3.634	-3.634	-3.634	-3.634	-3.634	-3.634
		Vy	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203
		Vz	-44.818	-39.725	-34.633	-32.087	-26.994	-21.902	-16.809	-14.263	-9.170
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	98.23	116.34	132.28	139.42	152.08	162.56	170.86	174.19	179.21

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	-0.38	-0.47	-0.56	-0.60	-0.69	-0.78	-0.86	-0.91	-0.99
	Recapeamento	N	-1.670	-1.670	-1.670	-1.670	-1.670	-1.670	-1.670	-1.670	-1.670
		Vy	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
		Vz	-20.121	-17.858	-15.594	-14.463	-12.199	-9.935	-7.672	-6.540	-4.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.17	52.31	59.48	62.70	68.41	73.16	76.93	78.45	80.77
		Mz	-0.17	-0.21	-0.25	-0.27	-0.31	-0.35	-0.39	-0.41	-0.45
	Vento 0	N	15.281	15.281	15.281	15.281	15.281	15.281	15.281	15.281	15.281
		Vy	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
		Vz	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.09	1.33	1.58	1.70	1.94	2.19	2.43	2.56	2.80
		Mz	0.11	0.14	0.16	0.17	0.20	0.22	0.25	0.26	0.29
	Vento 180	N	-9.635	-9.635	-9.635	-9.635	-9.635	-9.635	-9.635	-9.635	-9.635
		Vy	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
		Vz	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.23	-1.51	-1.79	-1.93	-2.21	-2.49	-2.77	-2.90	-3.18
		Mz	-0.13	-0.16	-0.19	-0.21	-0.24	-0.27	-0.30	-0.31	-0.34
	Multidão (Passeio)	N	-2.562	-2.562	-2.562	-2.562	-2.562	-2.562	-2.562	-2.562	-2.562
		Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vz	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.88	14.89	14.89	14.89	14.90	14.91	14.91	14.91	14.92
		Mz	-0.06	-0.07	-0.09	-0.09	-0.11	-0.12	-0.13	-0.14	-0.15
	Multidão - TB450	N	-2.065	-2.065	-2.065	-2.065	-2.065	-2.065	-2.065	-2.065	-2.065
		Vy	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254
		Vz	-64.371	-57.128	-49.884	-46.263	-39.020	-31.776	-24.533	-20.911	-13.668
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	122.30	148.34	171.27	181.57	199.85	215.02	227.08	231.95	239.36
		Mz	-0.48	-0.59	-0.70	-0.76	-0.86	-0.97	-1.08	-1.14	-1.25
	TB-450-A1	N	-2.726	-2.726	-2.726	-2.726	-2.726	-2.726	-2.726	-2.726	-2.726
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.06	0.08	0.08	0.09	0.10	0.12	0.12	0.13
		Mz	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06	-0.07	-0.07	-0.08
	TB-450-A2	N	-2.777	-2.777	-2.777	-2.777	-2.777	-2.777	-2.777	-2.777	-2.777
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13
		Mz	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06	-0.07	-0.07	-0.08
	TB-450-B1	N	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
	TB-450-B2	N	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	4.458	4.458	4.458	4.458	4.458	4.458	4.458	4.458	4.458
		Vy	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
		Vz	-60.598	-48.197	-35.797	-29.597	-17.196	-4.795	7.605	13.805	26.206
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	115.14	138.45	156.45	163.45	173.48	178.19	177.59	175.30	166.72
		Mz	-0.11	-0.13	-0.15	-0.17	-0.19	-0.21	-0.24	-0.25	-0.27
	TB-450-C2	N	4.666	4.666	4.666	4.666	4.666	4.666	4.666	4.666	4.666
		Vy	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
		Vz	-25.315	-25.315	-25.315	-25.315	-25.315	-25.315	-25.315	-25.315	-25.315
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.10	58.95	69.80	75.22	86.07	96.92	107.77	113.19	124.04
		Mz	-0.14	-0.17	-0.20	-0.22	-0.25	-0.28	-0.31	-0.33	-0.36
	TB-450-D1	N	-5.415	-5.415	-5.415	-5.415	-5.415	-5.415	-5.415	-5.415	-5.415
		Vy	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273
		Vz	-25.747	-25.747	-25.747	-25.747	-25.747	-25.747	-25.747	-25.747	-25.747
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.92	59.95	70.99	76.51	87.54	98.57	109.61	115.13	126.16
		Mz	-0.52	-0.64	-0.75	-0.81	-0.93	-1.05	-1.16	-1.22	-1.34
	TB-450-D2	N	-4.858	-4.858	-4.858	-4.858	-4.858	-4.858	-4.858	-4.858	-4.858
		Vy	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270
		Vz	-61.309	-48.811	-36.313	-30.064	-17.566	-5.068	7.430	13.679	26.178
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	116.49	140.09	158.33	165.44	175.64	180.49	179.99	177.73	169.19

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	-0.51	-0.63	-0.75	-0.80	-0.92	-1.03	-1.15	-1.21	-1.32
	TB-450-E1	N	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.42	0.51	0.61	0.66	0.75	0.85	0.94	0.99	1.08
		Mz	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.10	0.11
	TB-450-E2	N	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277	-0.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.53	0.64	0.76	0.82	0.94	1.06	1.18	1.24	1.36
		Mz	0.05	0.07	0.08	0.08	0.10	0.11	0.12	0.13	0.14

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N124/N83	Peso próprio	N	-4.646	-4.646	-4.646	-4.646	-4.646
		Vy	0.037	0.037	0.037	0.037	0.037
		Vz	-2.075	-1.649	-1.224	-0.798	-0.372
		Mt	0.00	0.00	0.00	0.00	0.00
		My	34.95	35.33	35.63	35.84	35.96
		Mz	-0.18	-0.19	-0.20	-0.20	-0.21
	Guarda Corpo	N	-1.408	-1.408	-1.408	-1.408	-1.408
		Vy	0.038	0.038	0.038	0.038	0.038
		Vz	0.018	0.018	0.018	0.018	0.018
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.86	25.85	25.85	25.85	25.84
		Mz	-0.18	-0.19	-0.20	-0.21	-0.22
	Laje	N	-6.995	-6.995	-6.995	-6.995	-6.995
		Vy	0.364	0.364	0.364	0.364	0.364
		Vz	-16.028	-11.943	-7.859	-3.774	0.311
		Mt	0.00	0.00	0.00	0.00	0.00
		My	316.17	319.06	321.10	322.30	322.66
		Mz	-1.78	-1.86	-1.93	-2.01	-2.08

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	Pavimentação	N	-3.634	-3.634	-3.634	-3.634	-3.634
		Vy	0.203	0.203	0.203	0.203	0.203
		Vz	-9.170	-6.774	-4.377	-1.981	0.416
		Mt	0.00	0.00	0.00	0.00	0.00
		My	179.21	180.85	182.00	182.66	182.82
		Mz	-0.99	-1.03	-1.08	-1.12	-1.16
	Recapeamento	N	-1.670	-1.670	-1.670	-1.670	-1.670
		Vy	0.092	0.092	0.092	0.092	0.092
		Vz	-4.277	-3.187	-2.098	-1.009	0.081
		Mt	0.00	0.00	0.00	0.00	0.00
		My	80.77	81.54	82.08	82.40	82.50
		Mz	-0.45	-0.47	-0.49	-0.51	-0.53
	Vento 0	N	15.281	15.281	15.281	15.281	15.281
		Vy	-0.058	-0.058	-0.058	-0.058	-0.058
		Vz	-0.572	-0.572	-0.572	-0.572	-0.572
		Mt	0.00	0.00	0.00	0.00	0.00
		My	2.80	2.92	3.04	3.16	3.27
		Mz	0.29	0.30	0.31	0.32	0.33
	Vento 180	N	-9.635	-9.635	-9.635	-9.635	-9.635
		Vy	0.070	0.070	0.070	0.070	0.070
		Vz	0.650	0.650	0.650	0.650	0.650
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.18	-3.32	-3.45	-3.58	-3.72
		Mz	-0.34	-0.35	-0.37	-0.38	-0.40
	Multidão (Passeio)	N	-2.562	-2.562	-2.562	-2.562	-2.562
		Vy	0.031	0.031	0.031	0.031	0.031
		Vz	-0.013	-0.013	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.92	14.92	14.93	14.93	14.93
		Mz	-0.15	-0.16	-0.16	-0.17	-0.18
	Multidão - TB450	N	-2.065	-2.065	-2.065	-2.065	-2.065
		Vy	0.254	0.254	0.254	0.254	0.254
		Vz	-13.668	-10.182	-6.696	-3.211	0.275
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	239.36	241.82	243.56	244.59	244.89
		Mz	-1.25	-1.30	-1.35	-1.40	-1.46
	TB-450-A1	N	-2.726	-2.726	-2.726	-2.726	-2.726
		Vy	0.016	0.016	0.016	0.016	0.016
		Vz	-0.027	-0.027	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.14	0.14	0.15	0.16
		Mz	-0.08	-0.08	-0.08	-0.09	-0.09
	TB-450-A2	N	-2.777	-2.777	-2.777	-2.777	-2.777
		Vy	0.016	0.016	0.016	0.016	0.016
		Vz	-0.027	-0.027	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.14	0.14	0.15	0.15
		Mz	-0.08	-0.08	-0.08	-0.09	-0.09
	TB-450-B1	N	-0.905	-0.905	-0.905	-0.905	-0.905
		Vy	0.003	0.003	0.003	0.003	0.003
		Vz	-0.015	-0.015	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.08	0.08	0.08	0.09
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-B2	N	-0.500	-0.500	-0.500	-0.500	-0.500
		Vy	0.001	0.001	0.001	0.001	0.001
		Vz	-0.040	-0.040	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.19	0.20	0.21	0.22	0.23
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	4.458	4.458	4.458	4.458	4.458
		Vy	0.056	0.056	0.056	0.056	0.056
		Vz	26.206	26.206	26.206	26.206	26.206
		Mt	0.00	0.00	0.00	0.00	0.00
		My	166.72	161.32	155.91	150.51	145.10
		Mz	-0.27	-0.28	-0.30	-0.31	-0.32
	TB-450-C2	N	4.666	4.666	4.666	4.666	4.666
		Vy	0.073	0.073	0.073	0.073	0.073

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	-25.315	-25.315	-25.315	-25.315	-25.315
		Mt	0.00	0.00	0.00	0.00	0.00
		My	124.04	129.26	134.48	139.71	144.93
		Mz	-0.36	-0.37	-0.39	-0.40	-0.42
	TB-450-D1	N	-5.415	-5.415	-5.415	-5.415	-5.415
		Vy	0.273	0.273	0.273	0.273	0.273
		Vz	-25.747	-25.747	-25.747	-25.747	-25.747
		Mt	0.00	0.00	0.00	0.00	0.00
		My	126.16	131.47	136.78	142.09	147.40
		Mz	-1.34	-1.39	-1.45	-1.51	-1.56
	TB-450-D2	N	-4.858	-4.858	-4.858	-4.858	-4.858
		Vy	0.270	0.270	0.270	0.270	0.270
		Vz	26.178	26.178	26.178	26.178	26.178
		Mt	0.00	0.00	0.00	0.00	0.00
		My	169.19	163.79	158.39	152.99	147.59
		Mz	-1.32	-1.38	-1.44	-1.49	-1.55
	TB-450-E1	N	0.419	0.419	0.419	0.419	0.419
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-0.221	-0.221	-0.221	-0.221	-0.221
		Mt	0.00	0.00	0.00	0.00	0.00
		My	1.08	1.13	1.17	1.22	1.26
		Mz	0.11	0.11	0.12	0.12	0.13
	TB-450-E2	N	0.663	0.663	0.663	0.663	0.663
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-0.277	-0.277	-0.277	-0.277	-0.277
		Mt	0.00	0.00	0.00	0.00	0.00
		My	1.36	1.41	1.47	1.53	1.58
		Mz	0.14	0.14	0.15	0.15	0.16

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N83/N127	Peso próprio	N	-4.667	-4.667	-4.667	-4.667	-4.667

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	0.372	0.798	1.224	1.649	2.075
		Mt	0.00	0.00	0.00	0.00	0.00
		My	35.96	35.84	35.63	35.33	34.95
		Mz	-0.21	-0.20	-0.20	-0.19	-0.18
	Guarda Corpo	N	-1.430	-1.430	-1.430	-1.430	-1.430
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	-0.018	-0.018	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00	0.00	0.00
		My	25.84	25.85	25.85	25.85	25.86
		Mz	-0.22	-0.21	-0.20	-0.19	-0.18
	Laje	N	-7.205	-7.205	-7.205	-7.205	-7.205
		Vy	-0.364	-0.364	-0.364	-0.364	-0.364
		Vz	-0.311	3.774	7.859	11.943	16.028
		Mt	0.00	0.00	0.00	0.00	0.00
		My	322.66	322.30	321.10	319.06	316.17
		Mz	-2.08	-2.01	-1.93	-1.86	-1.78
	Pavimentação	N	-3.750	-3.750	-3.750	-3.750	-3.750
		Vy	-0.203	-0.203	-0.203	-0.203	-0.203
		Vz	0.053	2.450	4.846	7.243	9.639
		Mt	0.00	0.00	0.00	0.00	0.00
		My	182.82	182.56	181.81	180.56	178.82
		Mz	-1.16	-1.12	-1.08	-1.03	-0.99
	Recapeamento	N	-1.723	-1.723	-1.723	-1.723	-1.723
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	-0.081	1.009	2.098	3.187	4.277
		Mt	0.00	0.00	0.00	0.00	0.00
		My	82.50	82.40	82.08	81.54	80.77
		Mz	-0.53	-0.51	-0.49	-0.47	-0.45
	Vento 0	N	15.309	15.309	15.309	15.309	15.309
		Vy	0.061	0.061	0.061	0.061	0.061
		Vz	0.572	0.572	0.572	0.572	0.572
		Mt	0.00	0.00	0.00	0.00	0.00
		My	3.27	3.16	3.04	2.92	2.80

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	0.35	0.34	0.33	0.31	0.30
	Vento 180	N	-9.670	-9.670	-9.670	-9.670	-9.670
		Vy	-0.072	-0.072	-0.072	-0.072	-0.072
		Vz	-0.650	-0.650	-0.650	-0.650	-0.650
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.72	-3.59	-3.45	-3.32	-3.18
		Mz	-0.41	-0.40	-0.38	-0.37	-0.35
	Multidão (Passeio)	N	-2.580	-2.580	-2.580	-2.580	-2.580
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.93	14.93	14.93	14.92	14.92
		Mz	-0.18	-0.17	-0.16	-0.16	-0.15
	Multidão - TB450	N	-2.212	-2.212	-2.212	-2.212	-2.212
		Vy	-0.254	-0.254	-0.254	-0.254	-0.254
		Vz	-0.275	3.211	6.696	10.182	13.668
		Mt	0.00	0.00	0.00	0.00	0.00
		My	244.89	244.59	243.56	241.82	239.36
		Mz	-1.46	-1.40	-1.35	-1.30	-1.25
	TB-450-A1	N	-2.735	-2.735	-2.735	-2.735	-2.735
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.027	0.027	0.027	0.027	0.027
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.16	0.15	0.14	0.14	0.13
		Mz	-0.09	-0.09	-0.08	-0.08	-0.08
	TB-450-A2	N	-2.786	-2.786	-2.786	-2.786	-2.786
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.027	0.027	0.027	0.027	0.027
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.15	0.14	0.14	0.13
		Mz	-0.09	-0.09	-0.08	-0.08	-0.08
	TB-450-B1	N	-0.907	-0.907	-0.907	-0.907	-0.907
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.015	0.015	0.015	0.015	0.015

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.09	0.08	0.08	0.08	0.07
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-B2	N	-0.500	-0.500	-0.500	-0.500	-0.500
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.040	0.040	0.040	0.040	0.040
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.23	0.22	0.21	0.20	0.19
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	4.425	4.425	4.425	4.425	4.425
		Vy	-0.055	-0.055	-0.055	-0.055	-0.055
		Vz	25.346	25.346	25.346	25.346	25.346
		Mt	0.00	0.00	0.00	0.00	0.00
		My	145.10	139.88	134.65	129.42	124.19
		Mz	-0.32	-0.30	-0.29	-0.28	-0.27
	TB-450-C2	N	4.625	4.625	4.625	4.625	4.625
		Vy	-0.073	-0.073	-0.073	-0.073	-0.073
		Vz	-26.237	-26.237	-26.237	-26.237	-26.237
		Mt	0.00	0.00	0.00	0.00	0.00
		My	144.93	150.34	155.75	161.16	166.57
		Mz	-0.42	-0.40	-0.39	-0.37	-0.36
	TB-450-D1	N	-5.572	-5.572	-5.572	-5.572	-5.572
		Vy	-0.274	-0.274	-0.274	-0.274	-0.274
		Vz	-26.210	-26.210	-26.210	-26.210	-26.210
		Mt	0.00	0.00	0.00	0.00	0.00
		My	147.40	152.81	158.21	163.62	169.02
		Mz	-1.57	-1.51	-1.45	-1.40	-1.34
	TB-450-D2	N	-5.016	-5.016	-5.016	-5.016	-5.016
		Vy	-0.269	-0.269	-0.269	-0.269	-0.269
		Vz	25.780	25.780	25.780	25.780	25.780
		Mt	0.00	0.00	0.00	0.00	0.00
		My	147.59	142.27	136.96	131.64	126.32
		Mz	-1.54	-1.49	-1.43	-1.37	-1.32
	TB-450-E1	N	0.432	0.432	0.432	0.432	0.432

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	0.022	0.022	0.022	0.022	0.022
		Vz	0.221	0.221	0.221	0.221	0.221
		Mt	0.00	0.00	0.00	0.00	0.00
		My	1.26	1.22	1.17	1.13	1.08
		Mz	0.13	0.12	0.12	0.11	0.11
	TB-450-E2	N	0.680	0.680	0.680	0.680	0.680
		Vy	0.028	0.028	0.028	0.028	0.028
		Vz	0.277	0.277	0.277	0.277	0.277
		Mt	0.00	0.00	0.00	0.00	0.00
		My	1.58	1.53	1.47	1.41	1.36
		Mz	0.16	0.15	0.15	0.14	0.14

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N127/N126	Peso próprio	N	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	2.075	2.960	3.844	4.287	5.171	6.056	6.940	7.383	8.267
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	34.95	33.87	32.41	31.54	29.51	27.11	24.32	22.79	19.43
		Mz	-0.18	-0.16	-0.15	-0.14	-0.13	-0.11	-0.09	-0.09	-0.07
	Guarda Corpo	N	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.86	25.87	25.87	25.88	25.89	25.89	25.90	25.91	25.91
		Mz	-0.18	-0.17	-0.15	-0.14	-0.13	-0.11	-0.10	-0.09	-0.07
	Laje	N	-7.205	-7.205	-7.205	-7.205	-7.205	-7.205	-7.205	-7.205	-7.205
		Vy	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364
		Vz	16.028	24.517	33.005	37.249	45.737	54.225	62.714	66.958	75.446
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	316.17	307.49	295.16	287.63	269.85	248.43	223.37	209.48	178.96
		Mz	-1.78	-1.63	-1.47	-1.39	-1.24	-1.08	-0.93	-0.85	-0.69
	Pavimentação	N	-3.750	-3.750	-3.750	-3.750	-3.750	-3.750	-3.750	-3.750	-3.750
		Vy	-0.203	-0.203	-0.203	-0.203	-0.203	-0.203	-0.203	-0.203	-0.203
		Vz	9.639	14.619	19.599	22.088	27.068	32.048	37.028	39.518	44.497
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	178.82	173.62	166.29	161.82	151.29	138.62	123.82	115.62	97.62
		Mz	-0.99	-0.91	-0.82	-0.78	-0.69	-0.60	-0.52	-0.47	-0.38
	Recapeamento	N	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	4.277	6.540	8.804	9.935	12.199	14.463	16.726	17.858	20.121
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	80.77	78.45	75.16	73.16	68.41	62.70	56.02	52.31	44.17
		Mz	-0.45	-0.41	-0.37	-0.35	-0.31	-0.27	-0.23	-0.21	-0.17
	Vento 0	N	15.309	15.309	15.309	15.309	15.309	15.309	15.309	15.309	15.309
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.80	2.56	2.31	2.19	1.94	1.70	1.45	1.33	1.09
		Mz	0.30	0.27	0.25	0.23	0.21	0.18	0.16	0.14	0.12
	Vento 180	N	-9.670	-9.670	-9.670	-9.670	-9.670	-9.670	-9.670	-9.670	-9.670
		Vy	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
		Vz	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.18	-2.91	-2.63	-2.49	-2.21	-1.93	-1.65	-1.51	-1.23
		Mz	-0.35	-0.32	-0.29	-0.28	-0.25	-0.21	-0.18	-0.17	-0.14
	Multidão (Passeio)	N	-2.580	-2.580	-2.580	-2.580	-2.580	-2.580	-2.580	-2.580	-2.580
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.92	14.91	14.91	14.91	14.90	14.89	14.89	14.89	14.88
		Mz	-0.15	-0.14	-0.13	-0.12	-0.11	-0.09	-0.08	-0.07	-0.06
	Multidão - TB450	N	-2.212	-2.212	-2.212	-2.212	-2.212	-2.212	-2.212	-2.212	-2.212
		Vy	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254
		Vz	13.668	20.911	28.155	31.776	39.020	46.263	53.506	57.128	64.371
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	239.36	231.95	221.44	215.02	199.85	181.57	160.19	148.34	122.30
		Mz	-1.25	-1.14	-1.03	-0.97	-0.86	-0.76	-0.65	-0.59	-0.48
	TB-450-A1	N	-2.735	-2.735	-2.735	-2.735	-2.735	-2.735	-2.735	-2.735	-2.735
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05
		Mz	-0.08	-0.07	-0.06	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03
	TB-450-A2	N	-2.786	-2.786	-2.786	-2.786	-2.786	-2.786	-2.786	-2.786	-2.786

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05
		Mz	-0.08	-0.07	-0.06	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03
	TB-450-B1	N	-0.907	-0.907	-0.907	-0.907	-0.907	-0.907	-0.907	-0.907	-0.907
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.03
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-B2	N	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.19	0.18	0.16	0.15	0.14	0.12	0.10	0.09	0.08
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	4.425	4.425	4.425	4.425	4.425	4.425	4.425	4.425	4.425
		Vy	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vz	25.346	25.346	25.346	25.346	25.346	25.346	25.346	25.346	25.346
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	124.19	113.33	102.47	97.04	86.18	75.31	64.45	59.02	48.16
		Mz	-0.27	-0.25	-0.22	-0.21	-0.19	-0.16	-0.14	-0.13	-0.10
	TB-450-C2	N	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625
		Vy	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073
		Vz	-26.237	-13.836	-1.436	4.764	17.165	29.565	41.966	48.166	60.567
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	166.57	175.16	178.43	178.07	173.38	163.36	148.03	138.38	115.08
		Mz	-0.36	-0.33	-0.30	-0.28	-0.25	-0.22	-0.19	-0.17	-0.14
	TB-450-D1	N	-5.572	-5.572	-5.572	-5.572	-5.572	-5.572	-5.572	-5.572	-5.572
		Vy	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274
		Vz	-26.210	-13.712	-1.214	5.035	17.533	30.031	42.529	48.778	61.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	169.02	177.58	180.78	180.37	175.53	165.34	149.79	140.01	116.43
		Mz	-1.34	-1.22	-1.11	-1.05	-0.93	-0.81	-0.70	-0.64	-0.52
	TB-450-D2	N	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016
		Vy	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269
		Vz	25.780	25.780	25.780	25.780	25.780	25.780	25.780	25.780	25.780
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	126.32	115.27	104.22	98.70	87.65	76.60	65.55	60.03	48.98
		Mz	-1.32	-1.20	-1.09	-1.03	-0.92	-0.80	-0.68	-0.63	-0.51
	TB-450-E1	N	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432
		Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vz	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.08	0.99	0.89	0.85	0.75	0.66	0.56	0.51	0.42
		Mz	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.04
	TB-450-E2	N	0.680	0.680	0.680	0.680	0.680	0.680	0.680	0.680	0.680
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.36	1.24	1.12	1.06	0.94	0.82	0.70	0.64	0.53
		Mz	0.14	0.12	0.11	0.11	0.09	0.08	0.07	0.06	0.05

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N126/N125	Peso próprio	N	-4.667	-4.667	-4.667
		Vy	-0.037	-0.037	-0.037
		Vz	8.267	8.680	9.093
		Mt	0.00	0.00	0.00
		My	19.43	17.74	15.96
		Mz	-0.07	-0.06	-0.06
	Guarda Corpo	N	-1.430	-1.430	-1.430
		Vy	-0.038	-0.038	-0.038
		Vz	-0.018	7.614	15.245
		Mt	0.00	0.00	0.00
		My	25.91	25.15	22.87
		Mz	-0.07	-0.06	-0.06
	Laje	N	-7.205	-7.205	-7.205
		Vy	-0.364	-0.364	-0.364
		Vz	75.446	79.368	83.289
		Mt	0.00	0.00	0.00
		My	178.96	163.48	147.22
		Mz	-0.69	-0.62	-0.55

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Pavimentação	N	-3.750	-3.750	-3.750
		Vy	-0.203	-0.203	-0.203
		Vz	44.497	44.497	44.497
		Mt	0.00	0.00	0.00
		My	97.62	88.72	79.82
		Mz	-0.38	-0.34	-0.30
	Recapeamento	N	-1.723	-1.723	-1.723
		Vy	-0.092	-0.092	-0.092
		Vz	20.121	20.121	20.121
		Mt	0.00	0.00	0.00
		My	44.17	40.15	36.12
		Mz	-0.17	-0.16	-0.14
	Vento 0	N	15.309	15.309	15.309
		Vy	0.061	0.061	0.061
		Vz	0.572	0.572	0.572
		Mt	0.00	0.00	0.00
		My	1.09	0.97	0.86
		Mz	0.12	0.10	0.09
	Vento 180	N	-9.670	-9.670	-9.670
		Vy	-0.072	-0.072	-0.072
		Vz	-0.650	-0.650	-0.650
		Mt	0.00	0.00	0.00
		My	-1.23	-1.10	-0.97
		Mz	-0.14	-0.12	-0.11
	Multidão (Passeio)	N	-2.580	-2.580	-2.580
		Vy	-0.031	-0.031	-0.031
		Vz	0.013	0.013	0.013
		Mt	0.00	0.00	0.00
		My	14.88	14.88	14.87
		Mz	-0.06	-0.05	-0.05
	Multidão - TB450	N	-2.212	-2.212	-2.212
		Vy	-0.254	-0.254	-0.254
		Vz	64.371	64.371	64.371
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	122.30	109.43	96.56
		Mz	-0.48	-0.43	-0.38
	TB-450-A1	N	-2.735	-2.735	-2.735
		Vy	-0.016	-0.016	-0.016
		Vz	0.027	0.027	0.027
		Mt	0.00	0.00	0.00
		My	0.05	0.05	0.04
		Mz	-0.03	-0.03	-0.02
	TB-450-A2	N	-2.786	-2.786	-2.786
		Vy	-0.016	-0.016	-0.016
		Vz	0.027	0.027	0.027
		Mt	0.00	0.00	0.00
		My	0.05	0.05	0.04
		Mz	-0.03	-0.03	-0.02
	TB-450-B1	N	-0.907	-0.907	-0.907
		Vy	-0.003	-0.003	-0.003
		Vz	0.015	0.015	0.015
		Mt	0.00	0.00	0.00
		My	0.03	0.03	0.02
		Mz	-0.01	-0.01	-0.01
	TB-450-B2	N	-0.500	-0.500	-0.500
		Vy	-0.001	-0.001	-0.001
		Vz	0.040	0.040	0.040
		Mt	0.00	0.00	0.00
		My	0.08	0.07	0.06
		Mz	0.00	0.00	0.00
	TB-450-C1	N	4.425	4.425	4.425
		Vy	-0.055	-0.055	-0.055
		Vz	25.346	25.346	25.346
		Mt	0.00	0.00	0.00
		My	48.16	43.09	38.02
		Mz	-0.10	-0.09	-0.08
	TB-450-C2	N	4.625	4.625	4.625
		Vy	-0.073	-0.073	-0.073

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	60.567	60.567	60.567
		Mt	0.00	0.00	0.00
		My	115.08	102.96	90.85
		Mz	-0.14	-0.12	-0.11
	TB-450-D1	N	-5.572	-5.572	-5.572
		Vy	-0.274	-0.274	-0.274
		Vz	61.277	61.277	61.277
		Mt	0.00	0.00	0.00
		My	116.43	104.17	91.91
		Mz	-0.52	-0.47	-0.41
	TB-450-D2	N	-5.016	-5.016	-5.016
		Vy	-0.269	-0.269	-0.269
		Vz	25.780	25.780	25.780
		Mt	0.00	0.00	0.00
		My	48.98	43.83	38.67
		Mz	-0.51	-0.46	-0.40
	TB-450-E1	N	0.432	0.432	0.432
		Vy	0.022	0.022	0.022
		Vz	0.221	0.221	0.221
		Mt	0.00	0.00	0.00
		My	0.42	0.38	0.33
		Mz	0.04	0.04	0.03
	TB-450-E2	N	0.680	0.680	0.680
		Vy	0.028	0.028	0.028
		Vz	0.277	0.277	0.277
		Mt	0.00	0.00	0.00
		My	0.53	0.47	0.41
		Mz	0.05	0.05	0.04

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N125/N11	Peso próprio	N	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667	-4.667
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	9.093	9.480	9.867	10.254	10.641	11.028	11.415	11.802	12.189
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.96	14.22	12.41	10.52	8.56	6.53	4.43	2.25	0.00
		Mz	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
	Guarda Corpo	N	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	15.245	15.245	15.245	15.245	15.245	15.245	15.245	15.245	15.245
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.87	20.01	17.15	14.29	11.43	8.58	5.72	2.86	0.00
		Mz	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
	Laje	N	-7.205	-7.205	-7.205	-7.205	-7.205	-7.205	-7.205	-7.205	-7.205
		Vy	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364
		Vz	83.289	87.003	90.716	94.430	98.144	101.857	105.571	109.284	112.998
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	147.22	131.25	114.59	97.23	79.18	60.43	40.98	20.84	0.00
		Mz	-0.55	-0.48	-0.41	-0.34	-0.27	-0.20	-0.14	-0.07	0.00
	Pavimentação	N	-3.750	-3.750	-3.750	-3.750	-3.750	-3.750	-3.750	-3.750	-3.750
		Vy	-0.203	-0.203	-0.203	-0.203	-0.203	-0.203	-0.203	-0.203	-0.203
		Vz	44.497	46.676	48.855	51.033	53.212	55.390	57.569	59.748	61.926
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	79.82	71.27	62.31	52.95	43.18	33.00	22.41	11.41	0.00
		Mz	-0.30	-0.27	-0.23	-0.19	-0.15	-0.11	-0.08	-0.04	0.00
	Recapeamento	N	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723	-1.723
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	20.121	21.112	22.102	23.092	24.082	25.073	26.063	27.053	28.044
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.12	32.26	28.21	23.97	19.55	14.94	10.15	5.17	0.00
		Mz	-0.14	-0.12	-0.10	-0.09	-0.07	-0.05	-0.03	-0.02	0.00
	Vento 0	N	15.309	15.309	15.309	15.309	15.309	15.309	15.309	15.309	15.309
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.86	0.75	0.64	0.54	0.43	0.32	0.21	0.11	0.00
		Mz	0.09	0.08	0.07	0.06	0.05	0.03	0.02	0.01	0.00
	Vento 180	N	-9.670	-9.670	-9.670	-9.670	-9.670	-9.670	-9.670	-9.670	-9.670
		Vy	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
		Vz	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650	-0.650
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.97	-0.85	-0.73	-0.61	-0.49	-0.37	-0.24	-0.12	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	-0.11	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
	Multidão (Passeio)	N	-2.580	-2.580	-2.580	-2.580	-2.580	-2.580	-2.580	-2.580	-2.580
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	0.013	2.489	4.965	7.441	9.916	12.392	14.868	17.344	19.819
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.87	14.64	13.94	12.78	11.15	9.06	6.50	3.48	0.00
		Mz	-0.05	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Multidão - TB450	N	-2.212	-2.212	-2.212	-2.212	-2.212	-2.212	-2.212	-2.212	-2.212
		Vy	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254
		Vz	64.371	64.371	64.371	64.371	64.371	64.371	64.371	64.371	64.371
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	96.56	84.49	72.42	60.35	48.28	36.21	24.14	12.07	0.00
		Mz	-0.38	-0.33	-0.29	-0.24	-0.19	-0.14	-0.10	-0.05	0.00
	TB-450-A1	N	-2.735	-2.735	-2.735	-2.735	-2.735	-2.735	-2.735	-2.735	-2.735
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-A2	N	-2.786	-2.786	-2.786	-2.786	-2.786	-2.786	-2.786	-2.786	-2.786
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-B1	N	-0.907	-0.907	-0.907	-0.907	-0.907	-0.907	-0.907	-0.907	-0.907
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	4.425	4.425	4.425	4.425	4.425	4.425	4.425	4.425	4.425
		Vy	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	25.346	25.346	25.346	25.346	25.346	25.346	25.346	25.346	25.346
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.02	33.27	28.51	23.76	19.01	14.26	9.50	4.75	0.00
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	TB-450-C2	N	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625
		Vy	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073	-0.073
		Vz	60.567	60.567	60.567	60.567	60.567	60.567	60.567	60.567	60.567
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	90.85	79.49	68.14	56.78	45.43	34.07	22.71	11.36	0.00
		Mz	-0.11	-0.10	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
	TB-450-D1	N	-5.572	-5.572	-5.572	-5.572	-5.572	-5.572	-5.572	-5.572	-5.572
		Vy	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274
		Vz	61.277	61.277	61.277	61.277	61.277	61.277	61.277	61.277	61.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	91.91	80.43	68.94	57.45	45.96	34.47	22.98	11.49	0.00
		Mz	-0.41	-0.36	-0.31	-0.26	-0.21	-0.15	-0.10	-0.05	0.00
	TB-450-D2	N	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016
		Vy	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269	-0.269
		Vz	25.780	25.780	25.780	25.780	25.780	25.780	25.780	25.780	25.780
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.67	33.84	29.00	24.17	19.33	14.50	9.67	4.83	0.00
		Mz	-0.40	-0.35	-0.30	-0.25	-0.20	-0.15	-0.10	-0.05	0.00
	TB-450-E1	N	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432
		Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vz	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.33	0.29	0.25	0.21	0.17	0.12	0.08	0.04	0.00
		Mz	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00
	TB-450-E2	N	0.680	0.680	0.680	0.680	0.680	0.680	0.680	0.680	0.680
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.41	0.36	0.31	0.26	0.21	0.16	0.10	0.05	0.00
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N28/N116	Peso próprio	N	2.122	2.122	2.122	2.122	2.122	2.122	2.122	2.122	2.122

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103
		Vz	-12.371	-11.984	-11.597	-11.210	-10.823	-10.436	-10.049	-9.662	-9.274
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.28	4.49	6.63	8.70	10.69	12.61	14.46	16.23
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.12	-0.14	-0.15
	Guarda Corpo	N	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-15.327	-15.327	-15.327	-15.327	-15.327	-15.327	-15.327	-15.327	-15.327
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.87	5.75	8.62	11.50	14.37	17.24	20.12	22.99
		Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
	Laje	N	3.598	3.598	3.598	3.598	3.598	3.598	3.598	3.598	3.598
		Vy	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313
		Vz	-113.879	-110.150	-106.422	-102.694	-98.966	-95.238	-91.510	-87.782	-84.053
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	21.00	41.31	60.91	79.82	98.02	115.53	132.34	148.45
		Mz	0.00	0.06	0.12	0.18	0.23	0.29	0.35	0.41	0.47
	Pavimentação	N	2.066	2.066	2.066	2.066	2.066	2.066	2.066	2.066	2.066
		Vy	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182
		Vz	-62.142	-59.955	-57.768	-55.580	-53.393	-51.206	-49.019	-46.832	-44.645
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.45	22.48	33.11	43.33	53.13	62.53	71.51	80.09
		Mz	0.00	0.03	0.07	0.10	0.14	0.17	0.21	0.24	0.27
	Recapeamento	N	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	-28.246	-27.252	-26.258	-25.264	-24.270	-23.275	-22.281	-21.287	-20.293
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.20	10.22	15.05	19.69	24.15	28.42	32.51	36.40
		Mz	0.00	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12
	Vento 0	N	28.598	28.598	28.598	28.598	28.598	28.598	28.598	28.598	28.598
		Vy	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353
		Vz	0.693	0.693	0.693	0.693	0.693	0.693	0.693	0.693	0.693
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.13	-0.26	-0.39	-0.52	-0.65	-0.78	-0.91	-1.04
		Mz	0.00	-0.07	-0.13	-0.20	-0.26	-0.33	-0.40	-0.46	-0.53
	Vento 180	N	-20.604	-20.604	-20.604	-20.604	-20.604	-20.604	-20.604	-20.604	-20.604
		Vy	-0.398	-0.398	-0.398	-0.398	-0.398	-0.398	-0.398	-0.398	-0.398
		Vz	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.00	0.13	0.26	0.39	0.52	0.65	0.79	0.92	1.05
		Mz	0.00	0.07	0.15	0.22	0.30	0.37	0.45	0.52	0.60
	Multidão (Passeio)	N	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-19.883	-17.397	-14.912	-12.427	-9.941	-7.456	-4.970	-2.485	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.50	6.52	9.09	11.18	12.81	13.98	14.68	14.91
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
	Multidão - TB450	N	2.724	2.724	2.724	2.724	2.724	2.724	2.724	2.724	2.724
		Vy	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276
		Vz	-64.938	-64.938	-64.938	-64.938	-64.938	-64.938	-64.938	-64.938	-64.938
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	12.18	24.35	36.53	48.70	60.88	73.06	85.23	97.41
		Mz	0.00	0.05	0.10	0.16	0.21	0.26	0.31	0.36	0.41
	TB-450-A1	N	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vy	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05	-0.05	-0.06
	TB-450-A2	N	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098
		Vy	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		Mz	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05	-0.05	-0.06
	TB-450-B1	N	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	TB-450-B2	N	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
	TB-450-C1	N	5.576	5.576	5.576	5.576	5.576	5.576	5.576	5.576	5.576

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445
		Vz	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
		Mz	0.00	0.08	0.17	0.25	0.33	0.42	0.50	0.58	0.67
	TB-450-C2	N	2.524	2.524	2.524	2.524	2.524	2.524	2.524	2.524	2.524
		Vy	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459
		Vz	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.12
		Mz	0.00	0.09	0.17	0.26	0.34	0.43	0.52	0.60	0.69
	TB-450-D1	N	-2.279	-2.279	-2.279	-2.279	-2.279	-2.279	-2.279	-2.279	-2.279
		Vy	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
		Vz	-51.964	-51.964	-51.964	-51.964	-51.964	-51.964	-51.964	-51.964	-51.964
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	9.74	19.49	29.23	38.97	48.72	58.46	68.20	77.95
		Mz	0.00	-0.03	-0.06	-0.09	-0.13	-0.16	-0.19	-0.22	-0.25
	TB-450-D2	N	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
		Vz	-122.971	-122.971	-122.971	-122.971	-122.971	-122.971	-122.971	-122.971	-122.971
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	23.06	46.11	69.17	92.23	115.29	138.34	161.40	184.46
		Mz	0.00	-0.03	-0.07	-0.10	-0.14	-0.17	-0.20	-0.24	-0.27
	TB-450-E1	N	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
		Mz	0.00	0.02	0.03	0.05	0.07	0.09	0.10	0.12	0.14
	TB-450-E2	N	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690
		Vy	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119
		Vz	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
		Mz	0.00	0.02	0.04	0.07	0.09	0.11	0.13	0.16	0.18

Esforços em barras, por hipóteses/ações			
Barra	Hipótese	Esforço	Posições na barra

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			0.000 m	0.200 m	0.400 m
N116/N117	Peso próprio	N	2.122	2.122	2.122
		Vy	0.103	0.103	0.103
		Vz	-9.274	-8.862	-8.449
		Mt	0.00	0.00	0.00
		My	16.23	18.05	19.78
		Mz	-0.15	-0.17	-0.20
	Guarda Corpo	N	0.322	0.322	0.322
		Vy	-0.019	-0.019	-0.019
		Vz	-15.327	-7.665	-0.003
		Mt	0.00	0.00	0.00
		My	22.99	25.29	26.06
		Mz	0.03	0.03	0.04
	Laje	N	3.598	3.598	3.598
		Vy	-0.313	-0.313	-0.313
		Vz	-84.053	-80.077	-76.100
		Mt	0.00	0.00	0.00
		My	148.45	164.86	180.48
		Mz	0.47	0.53	0.59
	Pavimentação	N	2.066	2.066	2.066
		Vy	-0.182	-0.182	-0.182
		Vz	-44.645	-44.645	-44.645
		Mt	0.00	0.00	0.00
		My	80.09	89.02	97.95
		Mz	0.27	0.31	0.35
	Recapeamento	N	0.916	0.916	0.916
		Vy	-0.081	-0.081	-0.081
		Vz	-20.293	-20.293	-20.293
		Mt	0.00	0.00	0.00
		My	36.40	40.46	44.52
		Mz	0.12	0.14	0.15
	Vento 0	N	28.598	28.598	28.598
		Vy	0.353	0.353	0.353
		Vz	0.693	0.693	0.693
		Mt	0.00	0.00	0.00
		My	-1.04	-1.18	-1.32
		Mz	-0.53	-0.60	-0.67

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Vento 180	N	-20.604	-20.604	-20.604
		Vy	-0.398	-0.398	-0.398
		Vz	-0.698	-0.698	-0.698
		Mt	0.00	0.00	0.00
		My	1.05	1.19	1.33
		Mz	0.60	0.68	0.76
	Multidão (Passeio)	N	0.162	0.162	0.162
		Vy	0.013	0.013	0.013
		Vz	0.001	0.001	0.001
		Mt	0.00	0.00	0.00
		My	14.91	14.91	14.91
		Mz	-0.02	-0.02	-0.02
	Multidão - TB450	N	2.724	2.724	2.724
		Vy	-0.276	-0.276	-0.276
		Vz	-64.938	-64.938	-64.938
		Mt	0.00	0.00	0.00
		My	97.41	110.39	123.38
		Mz	0.41	0.47	0.52
	TB-450-A1	N	0.008	0.008	0.008
		Vy	0.041	0.041	0.041
		Vz	0.008	0.008	0.008
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.02
		Mz	-0.06	-0.07	-0.08
	TB-450-A2	N	-0.098	-0.098	-0.098
		Vy	0.041	0.041	0.041
		Vz	0.005	0.005	0.005
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	-0.06	-0.07	-0.08
	TB-450-B1	N	-0.434	-0.434	-0.434
		Vy	0.015	0.015	0.015
		Vz	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	0.01	0.01	0.01
		Mz	-0.02	-0.03	-0.03
	TB-450-B2	N	0.583	0.583	0.583
		Vy	0.019	0.019	0.019
		Vz	0.011	0.011	0.011
		Mt	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02
		Mz	-0.03	-0.03	-0.04
	TB-450-C1	N	5.576	5.576	5.576
		Vy	-0.445	-0.445	-0.445
		Vz	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00
		My	0.03	0.03	0.04
		Mz	0.67	0.76	0.85
	TB-450-C2	N	2.524	2.524	2.524
		Vy	-0.459	-0.459	-0.459
		Vz	-0.077	-0.077	-0.077
		Mt	0.00	0.00	0.00
		My	0.12	0.13	0.15
		Mz	0.69	0.78	0.87
	TB-450-D1	N	-2.279	-2.279	-2.279
		Vy	0.167	0.167	0.167
		Vz	-51.964	-51.964	-51.964
		Mt	0.00	0.00	0.00
		My	77.95	88.34	98.73
		Mz	-0.25	-0.28	-0.32
	TB-450-D2	N	-0.004	-0.004	-0.004
		Vy	0.181	0.181	0.181
		Vz	-122.971	-122.971	-122.971
		Mt	0.00	0.00	0.00
		My	184.46	209.05	233.64
		Mz	-0.27	-0.31	-0.34
	TB-450-E1	N	0.676	0.676	0.676
		Vy	-0.092	-0.092	-0.092

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00
		My	0.03	0.03	0.04
		Mz	0.14	0.16	0.17
	TB-450-E2	N	0.690	0.690	0.690
		Vy	-0.119	-0.119	-0.119
		Vz	-0.025	-0.025	-0.025
		Mt	0.00	0.00	0.00
		My	0.04	0.04	0.05
		Mz	0.18	0.20	0.23

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N117/N118	Peso próprio	N	2.122	2.122	2.122	2.122	2.122	2.122	2.122	2.122	2.122
		Vy	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103
		Vz	-8.449	-7.564	-6.680	-6.237	-5.353	-4.468	-3.584	-3.141	-2.257
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.78	23.21	26.26	27.65	30.13	32.23	33.96	34.68	35.84
		Mz	-0.20	-0.24	-0.28	-0.31	-0.35	-0.39	-0.44	-0.46	-0.50
	Guarda Corpo	N	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.07
		Mz	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.09
	Laje	N	3.598	3.598	3.598	3.598	3.598	3.598	3.598	3.598	3.598
		Vy	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313
		Vz	-76.100	-67.579	-59.057	-54.796	-46.275	-37.753	-29.232	-24.971	-16.450
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	180.48	211.27	238.40	250.60	272.26	290.27	304.62	310.43	319.30
		Mz	0.59	0.73	0.86	0.93	1.06	1.20	1.33	1.40	1.53
	Pavimentação	N	2.066	2.066	2.066	2.066	2.066	2.066	2.066	2.066	2.066
		Vy	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182
		Vz	-44.645	-39.645	-34.646	-32.146	-27.147	-22.148	-17.149	-14.649	-9.650
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.95	116.01	131.93	139.09	151.79	162.35	170.78	174.18	179.39

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.35	0.42	0.50	0.54	0.62	0.70	0.78	0.82	0.89
	Recapeamento	N	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	-20.293	-18.021	-15.748	-14.612	-12.340	-10.067	-7.795	-6.659	-4.386
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.52	52.73	59.97	63.22	69.00	73.80	77.62	79.17	81.54
		Mz	0.15	0.19	0.22	0.24	0.28	0.31	0.34	0.36	0.40
	Vento 0	N	28.598	28.598	28.598	28.598	28.598	28.598	28.598	28.598	28.598
		Vy	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353
		Vz	0.693	0.693	0.693	0.693	0.693	0.693	0.693	0.693	0.693
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.32	-1.61	-1.91	-2.06	-2.36	-2.65	-2.95	-3.10	-3.40
		Mz	-0.67	-0.82	-0.97	-1.05	-1.20	-1.35	-1.50	-1.58	-1.73
	Vento 180	N	-20.604	-20.604	-20.604	-20.604	-20.604	-20.604	-20.604	-20.604	-20.604
		Vy	-0.398	-0.398	-0.398	-0.398	-0.398	-0.398	-0.398	-0.398	-0.398
		Vz	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.33	1.63	1.92	2.07	2.37	2.67	2.97	3.12	3.42
		Mz	0.76	0.93	1.10	1.18	1.35	1.53	1.70	1.78	1.95
	Multidão (Passeio)	N	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91
		Mz	-0.02	-0.03	-0.04	-0.04	-0.04	-0.05	-0.05	-0.06	-0.06
	Multidão - TB450	N	2.724	2.724	2.724	2.724	2.724	2.724	2.724	2.724	2.724
		Vy	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276
		Vz	-64.938	-57.666	-50.395	-46.759	-39.487	-32.216	-24.944	-21.308	-14.036
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	123.38	149.65	172.81	183.22	201.70	217.07	229.31	234.27	241.84
		Mz	0.52	0.64	0.76	0.82	0.94	1.06	1.17	1.23	1.35
	TB-450-A1	N	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vy	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04	-0.04
		Mz	-0.08	-0.09	-0.11	-0.12	-0.14	-0.16	-0.17	-0.18	-0.20
	TB-450-A2	N	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098	-0.098
		Vy	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03
		Mz	-0.08	-0.10	-0.11	-0.12	-0.14	-0.16	-0.18	-0.18	-0.20
	TB-450-B1	N	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04
		Mz	-0.03	-0.03	-0.04	-0.04	-0.05	-0.06	-0.06	-0.07	-0.07
	TB-450-B2	N	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.03	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06
		Mz	-0.04	-0.04	-0.05	-0.06	-0.06	-0.07	-0.08	-0.09	-0.09
	TB-450-C1	N	5.576	5.576	5.576	5.576	5.576	5.576	5.576	5.576	5.576
		Vy	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445
		Vz	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.05	0.05	0.06	0.07	0.08	0.08	0.09
		Mz	0.85	1.04	1.23	1.32	1.51	1.70	1.90	1.99	2.18
	TB-450-C2	N	2.524	2.524	2.524	2.524	2.524	2.524	2.524	2.524	2.524
		Vy	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459
		Vz	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077	-0.077
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.18	0.21	0.23	0.26	0.29	0.33	0.34	0.38
		Mz	0.87	1.07	1.27	1.36	1.56	1.76	1.95	2.05	2.25
	TB-450-D1	N	-2.279	-2.279	-2.279	-2.279	-2.279	-2.279	-2.279	-2.279	-2.279
		Vy	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
		Vz	-51.964	-51.964	-51.964	-51.964	-51.964	-51.964	-51.964	-51.964	-51.964
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	98.73	121.00	143.27	154.41	176.68	198.95	221.22	232.35	254.62
		Mz	-0.32	-0.39	-0.46	-0.50	-0.57	-0.64	-0.71	-0.75	-0.82
	TB-450-D2	N	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
		Vz	-122.971	-97.975	-72.978	-60.480	-35.484	-10.488	14.509	27.007	52.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	233.64	280.99	317.62	331.92	352.49	362.34	361.48	357.03	340.10

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	-0.34	-0.42	-0.50	-0.54	-0.62	-0.69	-0.77	-0.81	-0.89
	TB-450-E1	N	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.09	0.10
		Mz	0.17	0.21	0.25	0.27	0.31	0.35	0.39	0.41	0.45
	TB-450-E2	N	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690
		Vy	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119	-0.119
		Vz	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.06	0.07	0.07	0.08	0.10	0.11	0.11	0.12
		Mz	0.23	0.28	0.33	0.35	0.40	0.45	0.50	0.53	0.58

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N118/N84	Peso próprio	N	2.122	2.122	2.122	2.122	2.122
		Vy	0.103	0.103	0.103	0.103	0.103
		Vz	-2.257	-1.831	-1.405	-0.979	-0.554
		Mt	0.00	0.00	0.00	0.00	0.00
		My	35.84	36.26	36.59	36.84	37.00
		Mz	-0.50	-0.53	-0.55	-0.57	-0.59
	Guarda Corpo	N	0.322	0.322	0.322	0.322	0.322
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	26.07	26.07	26.07	26.07	26.07
		Mz	0.09	0.10	0.10	0.10	0.11
	Laje	N	3.598	3.598	3.598	3.598	3.598
		Vy	-0.313	-0.313	-0.313	-0.313	-0.313
		Vz	-16.450	-12.349	-8.248	-4.147	-0.046
		Mt	0.00	0.00	0.00	0.00	0.00
		My	319.30	322.27	324.40	325.68	326.11
		Mz	1.53	1.60	1.66	1.73	1.79

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	Pavimentação	N	2.066	2.066	2.066	2.066	2.066
		Vy	-0.182	-0.182	-0.182	-0.182	-0.182
		Vz	-9.650	-7.244	-4.838	-2.432	-0.026
		Mt	0.00	0.00	0.00	0.00	0.00
		My	179.39	181.13	182.38	183.13	183.38
		Mz	0.89	0.93	0.97	1.01	1.04
	Recapeamento	N	0.916	0.916	0.916	0.916	0.916
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	-4.386	-3.293	-2.199	-1.105	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00
		My	81.54	82.33	82.90	83.24	83.35
		Mz	0.40	0.41	0.43	0.45	0.46
	Vento 0	N	28.598	28.598	28.598	28.598	28.598
		Vy	0.353	0.353	0.353	0.353	0.353
		Vz	0.693	0.693	0.693	0.693	0.693
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.40	-3.54	-3.68	-3.83	-3.97
		Mz	-1.73	-1.80	-1.87	-1.95	-2.02
	Vento 180	N	-20.604	-20.604	-20.604	-20.604	-20.604
		Vy	-0.398	-0.398	-0.398	-0.398	-0.398
		Vz	-0.698	-0.698	-0.698	-0.698	-0.698
		Mt	0.00	0.00	0.00	0.00	0.00
		My	3.42	3.56	3.71	3.85	4.00
		Mz	1.95	2.03	2.12	2.20	2.28
	Multidão (Passeio)	N	0.162	0.162	0.162	0.162	0.162
		Vy	0.013	0.013	0.013	0.013	0.013
		Vz	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.91	14.91	14.91	14.91	14.91
		Mz	-0.06	-0.07	-0.07	-0.07	-0.07
	Multidão - TB450	N	2.724	2.724	2.724	2.724	2.724
		Vy	-0.276	-0.276	-0.276	-0.276	-0.276
		Vz	-14.036	-10.537	-7.037	-3.538	-0.038
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	241.84	244.38	246.19	247.28	247.65
		Mz	1.35	1.41	1.46	1.52	1.58
	TB-450-A1	N	0.008	0.008	0.008	0.008	0.008
		Vy	0.041	0.041	0.041	0.041	0.041
		Vz	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.05
		Mz	-0.20	-0.21	-0.22	-0.22	-0.23
	TB-450-A2	N	-0.098	-0.098	-0.098	-0.098	-0.098
		Vy	0.041	0.041	0.041	0.041	0.041
		Vz	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	-0.20	-0.21	-0.22	-0.23	-0.24
	TB-450-B1	N	-0.434	-0.434	-0.434	-0.434	-0.434
		Vy	0.015	0.015	0.015	0.015	0.015
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.04	0.04	0.04
		Mz	-0.07	-0.08	-0.08	-0.08	-0.08
	TB-450-B2	N	0.583	0.583	0.583	0.583	0.583
		Vy	0.019	0.019	0.019	0.019	0.019
		Vz	0.011	0.011	0.011	0.011	0.011
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.06	-0.06	-0.06	-0.06
		Mz	-0.09	-0.10	-0.10	-0.11	-0.11
	TB-450-C1	N	5.576	5.576	5.576	5.576	5.576
		Vy	-0.445	-0.445	-0.445	-0.445	-0.445
		Vz	-0.018	-0.018	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.09	0.09	0.10	0.10	0.11
		Mz	2.18	2.27	2.37	2.46	2.55
	TB-450-C2	N	2.524	2.524	2.524	2.524	2.524
		Vy	-0.459	-0.459	-0.459	-0.459	-0.459

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	-0.077	-0.077	-0.077	-0.077	-0.077
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.38	0.39	0.41	0.42	0.44
		Mz	2.25	2.34	2.44	2.53	2.63
	TB-450-D1	N	-2.279	-2.279	-2.279	-2.279	-2.279
		Vy	0.167	0.167	0.167	0.167	0.167
		Vz	-51.964	-51.964	-51.964	-51.964	-51.964
		Mt	0.00	0.00	0.00	0.00	0.00
		My	254.62	265.34	276.06	286.77	297.49
		Mz	-0.82	-0.85	-0.89	-0.92	-0.96
	TB-450-D2	N	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.181	0.181	0.181	0.181	0.181
		Vz	52.003	52.003	52.003	52.003	52.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	340.10	329.37	318.65	307.92	297.19
		Mz	-0.89	-0.93	-0.96	-1.00	-1.04
	TB-450-E1	N	0.676	0.676	0.676	0.676	0.676
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	-0.021	-0.021	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.10	0.10	0.11	0.11	0.12
		Mz	0.45	0.47	0.49	0.51	0.53
	TB-450-E2	N	0.690	0.690	0.690	0.690	0.690
		Vy	-0.119	-0.119	-0.119	-0.119	-0.119
		Vz	-0.025	-0.025	-0.025	-0.025	-0.025
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.12	0.13	0.13	0.14	0.14
		Mz	0.58	0.61	0.63	0.65	0.68

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N84/N121	Peso próprio	N	1.702	1.702	1.702	1.702	1.702

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.097	-0.097	-0.097	-0.097	-0.097
		Vz	0.563	0.989	1.415	1.841	2.266
		Mt	0.00	0.00	0.00	0.00	0.00
		My	37.05	36.89	36.64	36.31	35.88
		Mz	-0.55	-0.53	-0.51	-0.49	-0.47
	Guarda Corpo	N	0.411	0.411	0.411	0.411	0.411
		Vy	0.018	0.018	0.018	0.018	0.018
		Vz	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00
		My	26.06	26.06	26.06	26.06	26.06
		Mz	0.10	0.10	0.10	0.09	0.09
	Laje	N	4.374	4.374	4.374	4.374	4.374
		Vy	0.303	0.303	0.303	0.303	0.303
		Vz	0.032	4.133	8.234	12.335	16.436
		Mt	0.00	0.00	0.00	0.00	0.00
		My	326.03	325.60	324.33	322.20	319.24
		Mz	1.74	1.67	1.61	1.55	1.49
	Pavimentação	N	2.466	2.466	2.466	2.466	2.466
		Vy	0.177	0.177	0.177	0.177	0.177
		Vz	0.019	2.425	4.831	7.237	9.643
		Mt	0.00	0.00	0.00	0.00	0.00
		My	183.34	183.09	182.34	181.10	179.36
		Mz	1.01	0.97	0.94	0.90	0.87
	Recapeamento	N	1.110	1.110	1.110	1.110	1.110
		Vy	0.078	0.078	0.078	0.078	0.078
		Vz	0.008	1.102	2.196	3.289	4.383
		Mt	0.00	0.00	0.00	0.00	0.00
		My	83.34	83.22	82.88	82.31	81.52
		Mz	0.45	0.43	0.42	0.40	0.38
	Vento 0	N	-29.429	-29.429	-29.429	-29.429	-29.429
		Vy	-0.357	-0.357	-0.357	-0.357	-0.357
		Vz	0.603	0.603	0.603	0.603	0.603
		Mt	0.00	0.00	0.00	0.00	0.00
		My	3.45	3.33	3.20	3.08	2.96

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	-2.04	-1.97	-1.90	-1.82	-1.75
	Vento 180	N	37.378	37.378	37.378	37.378	37.378
		Vy	0.401	0.401	0.401	0.401	0.401
		Vz	-0.597	-0.597	-0.597	-0.597	-0.597
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.42	-3.29	-3.17	-3.05	-2.92
		Mz	2.30	2.21	2.13	2.05	1.97
	Multidão (Passeio)	N	0.252	0.252	0.252	0.252	0.252
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.90	14.90	14.90	14.90	14.90
		Mz	-0.07	-0.07	-0.07	-0.06	-0.06
	Multidão - TB450	N	3.231	3.231	3.231	3.231	3.231
		Vy	0.267	0.267	0.267	0.267	0.267
		Vz	0.030	3.530	7.029	10.529	14.028
		Mt	0.00	0.00	0.00	0.00	0.00
		My	247.60	247.24	246.15	244.34	241.80
		Mz	1.53	1.47	1.42	1.36	1.31
	TB-450-A1	N	-0.271	-0.271	-0.271	-0.271	-0.271
		Vy	-0.039	-0.039	-0.039	-0.039	-0.039
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.23	-0.22	-0.21	-0.20	-0.19
	TB-450-A2	N	-0.120	-0.120	-0.120	-0.120	-0.120
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03	-0.03	-0.03
		Mz	-0.23	-0.22	-0.21	-0.20	-0.20
	TB-450-B1	N	0.361	0.361	0.361	0.361	0.361
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.06	-0.06	-0.06	-0.05
		Mz	-0.08	-0.08	-0.08	-0.07	-0.07
	TB-450-B2	N	-0.223	-0.223	-0.223	-0.223	-0.223
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.03	0.03	0.03
		Mz	-0.11	-0.10	-0.10	-0.10	-0.09
	TB-450-C1	N	2.503	2.503	2.503	2.503	2.503
		Vy	0.430	0.430	0.430	0.430	0.430
		Vz	0.093	0.093	0.093	0.093	0.093
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.53	0.51	0.49	0.47	0.45
		Mz	2.46	2.37	2.29	2.20	2.11
	TB-450-C2	N	4.496	4.496	4.496	4.496	4.496
		Vy	0.445	0.445	0.445	0.445	0.445
		Vz	0.038	0.038	0.038	0.038	0.038
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.22	0.21	0.20	0.19	0.19
		Mz	2.55	2.46	2.36	2.27	2.18
	TB-450-D1	N	0.060	0.060	0.060	0.060	0.060
		Vy	-0.161	-0.161	-0.161	-0.161	-0.161
		Vz	-52.005	-52.005	-52.005	-52.005	-52.005
		Mt	0.00	0.00	0.00	0.00	0.00
		My	297.18	307.91	318.63	329.36	340.09
		Mz	-0.92	-0.89	-0.86	-0.82	-0.79
	TB-450-D2	N	-2.159	-2.159	-2.159	-2.159	-2.159
		Vy	-0.176	-0.176	-0.176	-0.176	-0.176
		Vz	51.958	51.958	51.958	51.958	51.958
		Mt	0.00	0.00	0.00	0.00	0.00
		My	297.46	286.74	276.03	265.31	254.59
		Mz	-1.01	-0.97	-0.94	-0.90	-0.86
	TB-450-E1	N	1.535	1.535	1.535	1.535	1.535

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	0.089	0.089	0.089	0.089	0.089
		Vz	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01
		Mz	0.51	0.49	0.47	0.45	0.44
	TB-450-E2	N	1.660	1.660	1.660	1.660	1.660
		Vy	0.115	0.115	0.115	0.115	0.115
		Vz	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.03	0.02	0.02	0.02
		Mz	0.66	0.63	0.61	0.59	0.56

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N121/N120	Peso próprio	N	1.702	1.702	1.702	1.702	1.702	1.702	1.702	1.702	1.702
		Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
		Vz	2.266	3.151	4.035	4.478	5.362	6.247	7.132	7.574	8.458
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	35.88	34.72	33.18	32.27	30.16	27.67	24.81	23.23	19.80
		Mz	-0.47	-0.43	-0.39	-0.37	-0.33	-0.29	-0.25	-0.23	-0.18
	Guarda Corpo	N	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.06	26.06	26.06	26.06	26.05	26.05	26.05	26.05	26.05
		Mz	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.03
	Laje	N	4.374	4.374	4.374	4.374	4.374	4.374	4.374	4.374	4.374
		Vy	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303
		Vz	16.436	24.958	33.479	37.740	46.261	54.783	63.304	67.565	76.086
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	319.24	310.37	297.85	290.21	272.21	250.56	225.26	211.24	180.45
		Mz	1.49	1.36	1.23	1.16	1.03	0.90	0.77	0.71	0.58
	Pavimentação	N	2.466	2.466	2.466	2.466	2.466	2.466	2.466	2.466	2.466
		Vy	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177
		Vz	9.643	14.642	19.642	22.141	27.140	32.140	37.139	39.639	44.638
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	179.36	174.15	166.81	162.33	151.77	139.07	124.22	115.99	97.93
		Mz	0.87	0.79	0.71	0.68	0.60	0.52	0.45	0.41	0.34
	Recapeamento	N	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110
		Vy	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Vz	4.383	6.655	8.928	10.064	12.336	14.609	16.881	18.017	20.290
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	81.52	79.16	75.82	73.78	68.98	63.21	56.46	52.72	44.52
		Mz	0.38	0.35	0.32	0.30	0.27	0.23	0.20	0.18	0.15
	Vento 0	N	-29.429	-29.429	-29.429	-29.429	-29.429	-29.429	-29.429	-29.429	-29.429
		Vy	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357
		Vz	0.603	0.603	0.603	0.603	0.603	0.603	0.603	0.603	0.603
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.96	2.70	2.44	2.31	2.05	1.79	1.53	1.40	1.15
		Mz	-1.75	-1.60	-1.44	-1.37	-1.21	-1.06	-0.91	-0.83	-0.68
	Vento 180	N	37.378	37.378	37.378	37.378	37.378	37.378	37.378	37.378	37.378
		Vy	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.401
		Vz	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.92	-2.67	-2.41	-2.28	-2.03	-1.77	-1.52	-1.39	-1.13
		Mz	1.97	1.79	1.62	1.54	1.36	1.19	1.02	0.93	0.76
	Multidão (Passeio)	N	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.90	14.90	14.90	14.90	14.90	14.90	14.91	14.91	14.91
		Mz	-0.06	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03	-0.02
	Multidão - TB450	N	3.231	3.231	3.231	3.231	3.231	3.231	3.231	3.231	3.231
		Vy	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267
		Vz	14.028	21.300	28.572	32.208	39.479	46.751	54.022	57.658	64.930
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	241.80	234.23	223.55	217.04	201.67	183.20	161.60	149.64	123.37
		Mz	1.31	1.19	1.08	1.02	0.91	0.79	0.68	0.62	0.51
	TB-450-A1	N	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271
		Vy	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00
		Mz	-0.19	-0.18	-0.16	-0.15	-0.13	-0.12	-0.10	-0.09	-0.07
	TB-450-A2	N	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01
		Mz	-0.20	-0.18	-0.16	-0.15	-0.14	-0.12	-0.10	-0.09	-0.08
	TB-450-B1	N	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.05	-0.04	-0.04	-0.04	-0.03	-0.03	-0.03	-0.02
		Mz	-0.07	-0.06	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03
	TB-450-B2	N	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.01
		Mz	-0.09	-0.08	-0.08	-0.07	-0.06	-0.06	-0.05	-0.04	-0.04
	TB-450-C1	N	2.503	2.503	2.503	2.503	2.503	2.503	2.503	2.503	2.503
		Vy	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
		Vz	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.45	0.41	0.37	0.35	0.32	0.28	0.24	0.22	0.18
		Mz	2.11	1.92	1.74	1.65	1.46	1.28	1.09	1.00	0.82
	TB-450-C2	N	4.496	4.496	4.496	4.496	4.496	4.496	4.496	4.496	4.496
		Vy	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445
		Vz	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.19	0.17	0.15	0.15	0.13	0.11	0.10	0.09	0.07
		Mz	2.18	1.99	1.80	1.70	1.51	1.32	1.13	1.04	0.85
	TB-450-D1	N	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060
		Vy	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161
		Vz	-52.005	-27.009	-2.013	10.485	35.482	60.478	85.474	97.972	122.969
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	340.09	357.02	363.24	362.33	352.48	331.92	300.64	280.98	233.64
		Mz	-0.79	-0.72	-0.65	-0.62	-0.55	-0.48	-0.41	-0.38	-0.31
	TB-450-D2	N	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159
		Vy	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176
		Vz	51.958	51.958	51.958	51.958	51.958	51.958	51.958	51.958	51.958
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	254.59	232.33	210.06	198.92	176.66	154.39	132.12	120.99	98.72
		Mz	-0.86	-0.79	-0.71	-0.67	-0.60	-0.52	-0.45	-0.41	-0.33
	TB-450-E1	N	1.535	1.535	1.535	1.535	1.535	1.535	1.535	1.535	1.535
		Vy	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
		Mz	0.44	0.40	0.36	0.34	0.30	0.26	0.23	0.21	0.17
	TB-450-E2	N	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660
		Vy	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
		Mz	0.56	0.51	0.47	0.44	0.39	0.34	0.29	0.27	0.22

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N120/N119	Peso próprio	N	1.702	1.702	1.702
		Vy	-0.097	-0.097	-0.097
		Vz	8.458	8.871	9.284
		Mt	0.00	0.00	0.00
		My	19.80	18.06	16.25
		Mz	-0.18	-0.16	-0.15
	Guarda Corpo	N	0.411	0.411	0.411
		Vy	0.018	0.018	0.018
		Vz	0.001	7.663	15.325
		Mt	0.00	0.00	0.00
		My	26.05	25.29	22.99
		Mz	0.03	0.03	0.03
	Laje	N	4.374	4.374	4.374
		Vy	0.303	0.303	0.303
		Vz	76.086	80.063	84.040
		Mt	0.00	0.00	0.00
		My	180.45	164.84	148.43
		Mz	0.58	0.52	0.46

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Pavimentação	N	2.466	2.466	2.466
		Vy	0.177	0.177	0.177
		Vz	44.638	44.638	44.638
		Mt	0.00	0.00	0.00
		My	97.93	89.01	80.08
		Mz	0.34	0.30	0.26
	Recapeamento	N	1.110	1.110	1.110
		Vy	0.078	0.078	0.078
		Vz	20.290	20.290	20.290
		Mt	0.00	0.00	0.00
		My	44.52	40.46	36.40
		Mz	0.15	0.13	0.12
	Vento 0	N	-29.429	-29.429	-29.429
		Vy	-0.357	-0.357	-0.357
		Vz	0.603	0.603	0.603
		Mt	0.00	0.00	0.00
		My	1.15	1.03	0.90
		Mz	-0.68	-0.61	-0.54
	Vento 180	N	37.378	37.378	37.378
		Vy	0.401	0.401	0.401
		Vz	-0.597	-0.597	-0.597
		Mt	0.00	0.00	0.00
		My	-1.13	-1.01	-0.89
		Mz	0.76	0.68	0.60
	Multidão (Passeio)	N	0.252	0.252	0.252
		Vy	-0.012	-0.012	-0.012
		Vz	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00
		My	14.91	14.91	14.91
		Mz	-0.02	-0.02	-0.02
	Multidão - TB450	N	3.231	3.231	3.231
		Vy	0.267	0.267	0.267
		Vz	64.930	64.930	64.930
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	123.37	110.38	97.39
		Mz	0.51	0.45	0.40
	TB-450-A1	N	-0.271	-0.271	-0.271
		Vy	-0.039	-0.039	-0.039
		Vz	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	-0.07	-0.07	-0.06
	TB-450-A2	N	-0.120	-0.120	-0.120
		Vy	-0.040	-0.040	-0.040
		Vz	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	-0.08	-0.07	-0.06
	TB-450-B1	N	0.361	0.361	0.361
		Vy	-0.014	-0.014	-0.014
		Vz	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02
		Mz	-0.03	-0.02	-0.02
	TB-450-B2	N	-0.223	-0.223	-0.223
		Vy	-0.019	-0.019	-0.019
		Vz	0.007	0.007	0.007
		Mt	0.00	0.00	0.00
		My	0.01	0.01	0.01
		Mz	-0.04	-0.03	-0.03
	TB-450-C1	N	2.503	2.503	2.503
		Vy	0.430	0.430	0.430
		Vz	0.093	0.093	0.093
		Mt	0.00	0.00	0.00
		My	0.18	0.16	0.14
		Mz	0.82	0.73	0.65
	TB-450-C2	N	4.496	4.496	4.496
		Vy	0.445	0.445	0.445

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.038	0.038	0.038
		Mt	0.00	0.00	0.00
		My	0.07	0.06	0.06
		Mz	0.85	0.76	0.67
	TB-450-D1	N	0.060	0.060	0.060
		Vy	-0.161	-0.161	-0.161
		Vz	122.969	122.969	122.969
		Mt	0.00	0.00	0.00
		My	233.64	209.05	184.45
		Mz	-0.31	-0.27	-0.24
	TB-450-D2	N	-2.159	-2.159	-2.159
		Vy	-0.176	-0.176	-0.176
		Vz	51.958	51.958	51.958
		Mt	0.00	0.00	0.00
		My	98.72	88.33	77.94
		Mz	-0.33	-0.30	-0.26
	TB-450-E1	N	1.535	1.535	1.535
		Vy	0.089	0.089	0.089
		Vz	0.002	0.002	0.002
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.17	0.15	0.13
	TB-450-E2	N	1.660	1.660	1.660
		Vy	0.115	0.115	0.115
		Vz	0.005	0.005	0.005
		Mt	0.00	0.00	0.00
		My	0.01	0.01	0.01
		Mz	0.22	0.20	0.17

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N119/N38	Peso próprio	N	1.702	1.702	1.702	1.702	1.702	1.702	1.702	1.702	1.702
		Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	9.284	9.671	10.058	10.445	10.832	11.219	11.606	11.993	12.380
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.25	14.47	12.62	10.70	8.70	6.64	4.50	2.29	0.00
		Mz	-0.15	-0.13	-0.11	-0.09	-0.07	-0.05	-0.04	-0.02	0.00
	Guarda Corpo	N	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	15.325	15.325	15.325	15.325	15.325	15.325	15.325	15.325	15.325
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.99	20.11	17.24	14.37	11.49	8.62	5.75	2.87	0.00
		Mz	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00
	Laje	N	4.374	4.374	4.374	4.374	4.374	4.374	4.374	4.374	4.374
		Vy	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303
		Vz	84.040	87.768	91.496	95.224	98.952	102.681	106.409	110.137	113.865
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	148.43	132.32	115.52	98.01	79.81	60.90	41.30	21.00	0.00
		Mz	0.46	0.40	0.34	0.28	0.23	0.17	0.11	0.06	0.00
	Pavimentação	N	2.466	2.466	2.466	2.466	2.466	2.466	2.466	2.466	2.466
		Vy	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177
		Vz	44.638	46.825	49.012	51.199	53.387	55.574	57.761	59.948	62.135
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	80.08	71.51	62.52	53.13	43.32	33.11	22.48	11.45	0.00
		Mz	0.26	0.23	0.20	0.17	0.13	0.10	0.07	0.03	0.00
	Recapeamento	N	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110
		Vy	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Vz	20.290	21.284	22.278	23.272	24.266	25.260	26.255	27.249	28.243
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.40	32.50	28.42	24.15	19.69	15.05	10.22	5.20	0.00
		Mz	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.01	0.00
	Vento 0	N	-29.429	-29.429	-29.429	-29.429	-29.429	-29.429	-29.429	-29.429	-29.429
		Vy	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357
		Vz	0.603	0.603	0.603	0.603	0.603	0.603	0.603	0.603	0.603
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.90	0.79	0.68	0.57	0.45	0.34	0.23	0.11	0.00
		Mz	-0.54	-0.47	-0.40	-0.33	-0.27	-0.20	-0.13	-0.07	0.00
	Vento 180	N	37.378	37.378	37.378	37.378	37.378	37.378	37.378	37.378	37.378
		Vy	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.401
		Vz	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.89	-0.78	-0.67	-0.56	-0.45	-0.34	-0.22	-0.11	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.60	0.53	0.45	0.38	0.30	0.23	0.15	0.08	0.00
	Multidão (Passeio)	N	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-0.003	2.483	4.968	7.454	9.939	12.424	14.910	17.395	19.881
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.91	14.68	13.98	12.81	11.18	9.09	6.52	3.49	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Multidão - TB450	N	3.231	3.231	3.231	3.231	3.231	3.231	3.231	3.231	3.231
		Vy	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267
		Vz	64.930	64.930	64.930	64.930	64.930	64.930	64.930	64.930	64.930
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.39	85.22	73.05	60.87	48.70	36.52	24.35	12.17	0.00
		Mz	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.05	0.00
	TB-450-A1	N	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271
		Vy	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
	TB-450-A2	N	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
	TB-450-B1	N	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-B2	N	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-C1	N	2.503	2.503	2.503	2.503	2.503	2.503	2.503	2.503	2.503
		Vy	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.14	0.12	0.10	0.09	0.07	0.05	0.03	0.02	0.00
		Mz	0.65	0.56	0.48	0.40	0.32	0.24	0.16	0.08	0.00
	TB-450-C2	N	4.496	4.496	4.496	4.496	4.496	4.496	4.496	4.496	4.496
		Vy	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445
		Vz	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00
		Mz	0.67	0.58	0.50	0.42	0.33	0.25	0.17	0.08	0.00
	TB-450-D1	N	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060
		Vy	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161
		Vz	122.969	122.969	122.969	122.969	122.969	122.969	122.969	122.969	122.969
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	184.45	161.40	138.34	115.28	92.23	69.17	46.11	23.06	0.00
		Mz	-0.24	-0.21	-0.18	-0.15	-0.12	-0.09	-0.06	-0.03	0.00
	TB-450-D2	N	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159
		Vy	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176
		Vz	51.958	51.958	51.958	51.958	51.958	51.958	51.958	51.958	51.958
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	77.94	68.19	58.45	48.71	38.97	29.23	19.48	9.74	0.00
		Mz	-0.26	-0.23	-0.20	-0.17	-0.13	-0.10	-0.07	-0.03	0.00
	TB-450-E1	N	1.535	1.535	1.535	1.535	1.535	1.535	1.535	1.535	1.535
		Vy	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.13	0.12	0.10	0.08	0.07	0.05	0.03	0.02	0.00
	TB-450-E2	N	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660
		Vy	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.17	0.15	0.13	0.11	0.09	0.06	0.04	0.02	0.00

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N5/N110	Peso próprio	N	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	-12.382	-11.995	-11.608	-11.221	-10.834	-10.447	-10.060	-9.673	-9.286
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.29	4.50	6.64	8.71	10.70	12.62	14.47	16.25
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05
	Guarda Corpo	N	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-15.329	-15.329	-15.329	-15.329	-15.329	-15.329	-15.329	-15.329	-15.329
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.87	5.75	8.62	11.50	14.37	17.25	20.12	22.99
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	Laje	N	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871
		Vy	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493
		Vz	-113.908	-110.180	-106.452	-102.724	-98.995	-95.267	-91.539	-87.811	-84.083
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	21.01	41.32	60.93	79.84	98.05	115.56	132.38	148.49
		Mz	0.00	0.09	0.19	0.28	0.37	0.46	0.56	0.65	0.74
	Pavimentação	N	-1.643	-1.643	-1.643	-1.643	-1.643	-1.643	-1.643	-1.643	-1.643
		Vy	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287
		Vz	-62.159	-59.972	-57.785	-55.598	-53.410	-51.223	-49.036	-46.849	-44.662
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.45	22.49	33.12	43.34	53.15	62.55	71.54	80.12
		Mz	0.00	0.05	0.11	0.16	0.22	0.27	0.32	0.38	0.43
	Recapeamento	N	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738
		Vy	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127
		Vz	-28.254	-27.260	-26.266	-25.271	-24.277	-23.283	-22.289	-21.295	-20.300
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.20	10.22	15.05	19.70	24.16	28.43	32.52	36.42
		Mz	0.00	0.02	0.05	0.07	0.10	0.12	0.14	0.17	0.19
	Vento 0	N	42.805	42.805	42.805	42.805	42.805	42.805	42.805	42.805	42.805
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.13	-0.26	-0.40	-0.53	-0.66	-0.79	-0.93	-1.06
		Mz	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07
	Vento 180	N	-33.077	-33.077	-33.077	-33.077	-33.077	-33.077	-33.077	-33.077	-33.077
		Vy	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086
		Vz	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.00	0.14	0.27	0.41	0.54	0.68	0.81	0.95	1.09
		Mz	0.00	0.02	0.03	0.05	0.06	0.08	0.10	0.11	0.13
	Multidão (Passeio)	N	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-19.883	-17.398	-14.912	-12.427	-9.941	-7.456	-4.970	-2.485	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.50	6.52	9.09	11.18	12.82	13.98	14.68	14.91
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	Multidão - TB450	N	-2.374	-2.374	-2.374	-2.374	-2.374	-2.374	-2.374	-2.374	-2.374
		Vy	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
		Vz	-64.962	-64.962	-64.962	-64.962	-64.962	-64.962	-64.962	-64.962	-64.962
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	12.18	24.36	36.54	48.72	60.90	73.08	85.26	97.44
		Mz	0.00	0.08	0.16	0.24	0.32	0.40	0.48	0.56	0.64
	TB-450-A1	N	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05
	TB-450-A2	N	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05
	TB-450-B1	N	-0.475	-0.475	-0.475	-0.475	-0.475	-0.475	-0.475	-0.475	-0.475
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05
	TB-450-B2	N	0.823	0.823	0.823	0.823	0.823	0.823	0.823	0.823	0.823
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
		Mz	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07
	TB-450-C1	N	-2.252	-2.252	-2.252	-2.252	-2.252	-2.252	-2.252	-2.252	-2.252

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702
		Vz	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.03	0.04	0.05	0.06	0.08	0.09	0.10
		Mz	0.00	0.13	0.26	0.39	0.53	0.66	0.79	0.92	1.05
	TB-450-C2	N	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061
		Vy	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694
		Vz	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16
		Mz	0.00	0.13	0.26	0.39	0.52	0.65	0.78	0.91	1.04
	TB-450-D1	N	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643
		Vy	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271
		Vz	-26.028	-26.028	-26.028	-26.028	-26.028	-26.028	-26.028	-26.028	-26.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.88	9.76	14.64	19.52	24.40	29.28	34.16	39.04
		Mz	0.00	0.05	0.10	0.15	0.20	0.25	0.31	0.36	0.41
	TB-450-D2	N	-1.025	-1.025	-1.025	-1.025	-1.025	-1.025	-1.025	-1.025	-1.025
		Vy	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264
		Vz	-61.523	-61.523	-61.523	-61.523	-61.523	-61.523	-61.523	-61.523	-61.523
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.54	23.07	34.61	46.14	57.68	69.21	80.75	92.28
		Mz	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40
	TB-450-E1	N	1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082
		Vy	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395
		Vz	-25.944	-25.944	-25.944	-25.944	-25.944	-25.944	-25.944	-25.944	-25.944
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.86	9.73	14.59	19.46	24.32	29.19	34.05	38.92
		Mz	0.00	-0.07	-0.15	-0.22	-0.30	-0.37	-0.44	-0.52	-0.59
	TB-450-E2	N	2.189	2.189	2.189	2.189	2.189	2.189	2.189	2.189	2.189
		Vy	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
		Vz	-61.466	-61.466	-61.466	-61.466	-61.466	-61.466	-61.466	-61.466	-61.466
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.52	23.05	34.57	46.10	57.62	69.15	80.67	92.20
		Mz	0.00	-0.07	-0.14	-0.21	-0.28	-0.35	-0.42	-0.49	-0.55

Esforços em barras, por hipóteses/ações			
Barra	Hipótese	Esforço	Posições na barra

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			0.000 m	0.200 m	0.400 m
N110/N111	Peso próprio	N	0.275	0.275	0.275
		Vy	0.035	0.035	0.035
		Vz	-9.286	-8.873	-8.460
		Mt	0.00	0.00	0.00
		My	16.25	18.07	19.80
		Mz	-0.05	-0.06	-0.07
	Guarda Corpo	N	-0.208	-0.208	-0.208
		Vy	-0.031	-0.031	-0.031
		Vz	-15.329	-7.667	-0.005
		Mt	0.00	0.00	0.00
		My	22.99	25.29	26.06
		Mz	0.05	0.05	0.06
	Laje	N	-2.871	-2.871	-2.871
		Vy	-0.493	-0.493	-0.493
		Vz	-84.083	-80.106	-76.130
		Mt	0.00	0.00	0.00
		My	148.49	164.91	180.54
		Mz	0.74	0.84	0.94
	Pavimentação	N	-1.643	-1.643	-1.643
		Vy	-0.287	-0.287	-0.287
		Vz	-44.662	-44.662	-44.662
		Mt	0.00	0.00	0.00
		My	80.12	89.05	97.98
		Mz	0.43	0.49	0.54
	Recapeamento	N	-0.738	-0.738	-0.738
		Vy	-0.127	-0.127	-0.127
		Vz	-20.300	-20.300	-20.300
		Mt	0.00	0.00	0.00
		My	36.42	40.48	44.54
		Mz	0.19	0.22	0.24
	Vento 0	N	42.805	42.805	42.805
		Vy	-0.046	-0.046	-0.046
		Vz	0.707	0.707	0.707
		Mt	0.00	0.00	0.00
		My	-1.06	-1.20	-1.34
		Mz	0.07	0.08	0.09

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Vento 180	N	-33.077	-33.077	-33.077
		Vy	-0.086	-0.086	-0.086
		Vz	-0.724	-0.724	-0.724
		Mt	0.00	0.00	0.00
		My	1.09	1.23	1.38
		Mz	0.13	0.15	0.16
	Multidão (Passeio)	N	0.011	0.011	0.011
		Vy	0.015	0.015	0.015
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	14.91	14.91	14.91
		Mz	-0.02	-0.03	-0.03
	Multidão - TB450	N	-2.374	-2.374	-2.374
		Vy	-0.427	-0.427	-0.427
		Vz	-64.962	-64.962	-64.962
		Mt	0.00	0.00	0.00
		My	97.44	110.44	123.43
		Mz	0.64	0.73	0.81
	TB-450-A1	N	0.196	0.196	0.196
		Vy	0.034	0.034	0.034
		Vz	0.005	0.005	0.005
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	-0.05	-0.06	-0.06
	TB-450-A2	N	0.075	0.075	0.075
		Vy	0.036	0.036	0.036
		Vz	0.003	0.003	0.003
		Mt	0.00	0.00	0.00
		My	0.00	0.00	-0.01
		Mz	-0.05	-0.06	-0.07
	TB-450-B1	N	-0.475	-0.475	-0.475
		Vy	0.032	0.032	0.032
		Vz	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	0.01	0.02	0.02
		Mz	-0.05	-0.05	-0.06
	TB-450-B2	N	0.823	0.823	0.823
		Vy	0.044	0.044	0.044
		Vz	0.019	0.019	0.019
		Mt	0.00	0.00	0.00
		My	-0.03	-0.03	-0.04
		Mz	-0.07	-0.08	-0.08
	TB-450-C1	N	-2.252	-2.252	-2.252
		Vy	-0.702	-0.702	-0.702
		Vz	-0.068	-0.068	-0.068
		Mt	0.00	0.00	0.00
		My	0.10	0.12	0.13
		Mz	1.05	1.19	1.33
	TB-450-C2	N	-4.061	-4.061	-4.061
		Vy	-0.694	-0.694	-0.694
		Vz	-0.106	-0.106	-0.106
		Mt	0.00	0.00	0.00
		My	0.16	0.18	0.20
		Mz	1.04	1.18	1.32
	TB-450-D1	N	-2.643	-2.643	-2.643
		Vy	-0.271	-0.271	-0.271
		Vz	-26.028	-26.028	-26.028
		Mt	0.00	0.00	0.00
		My	39.04	44.25	49.45
		Mz	0.41	0.46	0.52
	TB-450-D2	N	-1.025	-1.025	-1.025
		Vy	-0.264	-0.264	-0.264
		Vz	-61.523	-61.523	-61.523
		Mt	0.00	0.00	0.00
		My	92.28	104.59	116.89
		Mz	0.40	0.45	0.50
	TB-450-E1	N	1.082	1.082	1.082
		Vy	0.395	0.395	0.395

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	-25.944	-25.944	-25.944
		Mt	0.00	0.00	0.00
		My	38.92	44.10	49.29
		Mz	-0.59	-0.67	-0.75
	TB-450-E2	N	2.189	2.189	2.189
		Vy	0.370	0.370	0.370
		Vz	-61.466	-61.466	-61.466
		Mt	0.00	0.00	0.00
		My	92.20	104.49	116.79
		Mz	-0.55	-0.63	-0.70

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N111/N112	Peso próprio	N	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	-8.460	-7.576	-6.691	-6.249	-5.364	-4.480	-3.595	-3.153	-2.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.80	23.24	26.29	27.68	30.17	32.28	34.01	34.73	35.89
		Mz	-0.07	-0.08	-0.10	-0.10	-0.12	-0.13	-0.15	-0.16	-0.17
	Guarda Corpo	N	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.06	26.06	26.06	26.07	26.07	26.07	26.07	26.07	26.08
		Mz	0.06	0.07	0.09	0.09	0.11	0.12	0.13	0.14	0.15
	Laje	N	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871	-2.871
		Vy	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493
		Vz	-76.130	-67.608	-59.087	-54.826	-46.304	-37.783	-29.261	-25.001	-16.479
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	180.54	211.34	238.49	250.69	272.36	290.38	304.75	310.56	319.45
		Mz	0.94	1.15	1.36	1.47	1.68	1.89	2.10	2.21	2.42
	Pavimentação	N	-1.643	-1.643	-1.643	-1.643	-1.643	-1.643	-1.643	-1.643	-1.643
		Vy	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287
		Vz	-44.662	-39.662	-34.663	-32.164	-27.164	-22.165	-17.166	-14.666	-9.667
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.98	116.05	131.98	139.14	151.85	162.42	170.85	174.26	179.47

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.54	0.67	0.79	0.85	0.97	1.10	1.22	1.28	1.40
	Recapeamento	N	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738
		Vy	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127
		Vz	-20.300	-18.028	-15.756	-14.620	-12.347	-10.075	-7.802	-6.666	-4.394
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.54	52.75	59.99	63.24	69.02	73.83	77.66	79.21	81.58
		Mz	0.24	0.30	0.35	0.38	0.43	0.49	0.54	0.57	0.62
	Vento 0	N	42.805	42.805	42.805	42.805	42.805	42.805	42.805	42.805	42.805
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.34	-1.65	-1.95	-2.10	-2.40	-2.71	-3.01	-3.16	-3.46
		Mz	0.09	0.11	0.13	0.14	0.16	0.18	0.20	0.21	0.22
	Vento 180	N	-33.077	-33.077	-33.077	-33.077	-33.077	-33.077	-33.077	-33.077	-33.077
		Vy	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086
		Vz	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724	-0.724
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.38	1.69	2.00	2.15	2.46	2.77	3.08	3.24	3.55
		Mz	0.16	0.20	0.24	0.26	0.29	0.33	0.37	0.38	0.42
	Multidão (Passeio)	N	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91
		Mz	-0.03	-0.03	-0.04	-0.04	-0.05	-0.06	-0.06	-0.07	-0.07
	Multidão - TB450	N	-2.374	-2.374	-2.374	-2.374	-2.374	-2.374	-2.374	-2.374	-2.374
		Vy	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
		Vz	-64.962	-57.690	-50.419	-46.783	-39.511	-32.240	-24.968	-21.332	-14.061
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	123.43	149.71	172.88	183.29	201.78	217.16	229.42	234.38	241.96
		Mz	0.81	0.99	1.18	1.27	1.45	1.63	1.82	1.91	2.09
	TB-450-A1	N	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02
		Mz	-0.06	-0.08	-0.09	-0.10	-0.12	-0.13	-0.14	-0.15	-0.17
	TB-450-A2	N	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.07	-0.08	-0.10	-0.11	-0.12	-0.14	-0.16	-0.16	-0.18
	TB-450-B1	N	-0.475	-0.475	-0.475	-0.475	-0.475	-0.475	-0.475	-0.475	-0.475
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04
		Mz	-0.06	-0.07	-0.09	-0.09	-0.11	-0.12	-0.14	-0.14	-0.16
	TB-450-B2	N	0.823	0.823	0.823	0.823	0.823	0.823	0.823	0.823	0.823
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.05	-0.06	-0.06	-0.07	-0.08	-0.08	-0.09
		Mz	-0.08	-0.10	-0.12	-0.13	-0.15	-0.17	-0.19	-0.20	-0.22
	TB-450-C1	N	-2.252	-2.252	-2.252	-2.252	-2.252	-2.252	-2.252	-2.252	-2.252
		Vy	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702
		Vz	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.16	0.19	0.20	0.23	0.26	0.29	0.30	0.33
		Mz	1.33	1.63	1.94	2.09	2.39	2.69	2.99	3.14	3.44
	TB-450-C2	N	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061	-4.061
		Vy	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694
		Vz	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.20	0.25	0.29	0.31	0.36	0.41	0.45	0.47	0.52
		Mz	1.32	1.62	1.91	2.06	2.36	2.66	2.96	3.11	3.40
	TB-450-D1	N	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643	-2.643
		Vy	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271
		Vz	-26.028	-26.028	-26.028	-26.028	-26.028	-26.028	-26.028	-26.028	-26.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.45	60.61	71.76	77.34	88.50	99.65	110.80	116.38	127.54
		Mz	0.52	0.63	0.75	0.81	0.92	1.04	1.16	1.21	1.33
	TB-450-D2	N	-1.025	-1.025	-1.025	-1.025	-1.025	-1.025	-1.025	-1.025	-1.025
		Vy	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264
		Vz	-61.523	-49.025	-36.527	-30.278	-17.780	-5.281	7.217	13.466	25.964
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	116.89	140.58	158.92	166.07	176.37	181.31	180.90	178.68	170.23

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.50	0.61	0.73	0.78	0.90	1.01	1.12	1.18	1.29
	TB-450-E1	N	1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082
		Vy	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395
		Vz	-25.944	-25.944	-25.944	-25.944	-25.944	-25.944	-25.944	-25.944	-25.944
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.29	60.41	71.53	77.09	88.21	99.33	110.45	116.00	127.12
		Mz	-0.75	-0.92	-1.09	-1.17	-1.34	-1.51	-1.68	-1.77	-1.93
	TB-450-E2	N	2.189	2.189	2.189	2.189	2.189	2.189	2.189	2.189	2.189
		Vy	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
		Vz	-61.466	-48.968	-36.470	-30.221	-17.723	-5.225	7.273	13.522	26.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	116.79	140.45	158.76	165.90	176.18	181.10	180.66	178.43	169.96
		Mz	-0.70	-0.86	-1.02	-1.10	-1.26	-1.42	-1.57	-1.65	-1.81

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N112/N85	Peso próprio	N	0.275	0.275	0.275	0.275	0.275
		Vy	0.035	0.035	0.035	0.035	0.035
		Vz	-2.268	-1.842	-1.417	-0.991	-0.565
		Mt	0.00	0.00	0.00	0.00	0.00
		My	35.89	36.32	36.65	36.90	37.06
		Mz	-0.17	-0.18	-0.18	-0.19	-0.20
	Guarda Corpo	N	-0.208	-0.208	-0.208	-0.208	-0.208
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00
		My	26.08	26.08	26.08	26.08	26.08
		Mz	0.15	0.16	0.17	0.17	0.18
	Laje	N	-2.871	-2.871	-2.871	-2.871	-2.871
		Vy	-0.493	-0.493	-0.493	-0.493	-0.493
		Vz	-16.479	-12.378	-8.277	-4.176	-0.075
		Mt	0.00	0.00	0.00	0.00	0.00
		My	319.45	322.42	324.56	325.84	326.28
		Mz	2.42	2.52	2.62	2.72	2.83

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	Pavimentação	N	-1.643	-1.643	-1.643	-1.643	-1.643
		Vy	-0.287	-0.287	-0.287	-0.287	-0.287
		Vz	-9.667	-7.261	-4.855	-2.449	-0.043
		Mt	0.00	0.00	0.00	0.00	0.00
		My	179.47	181.22	182.47	183.22	183.48
		Mz	1.40	1.46	1.52	1.58	1.64
	Recapeamento	N	-0.738	-0.738	-0.738	-0.738	-0.738
		Vy	-0.127	-0.127	-0.127	-0.127	-0.127
		Vz	-4.394	-3.300	-2.207	-1.113	-0.019
		Mt	0.00	0.00	0.00	0.00	0.00
		My	81.58	82.37	82.94	83.28	83.40
		Mz	0.62	0.65	0.68	0.70	0.73
	Vento 0	N	42.805	42.805	42.805	42.805	42.805
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	0.707	0.707	0.707	0.707	0.707
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-3.46	-3.61	-3.75	-3.90	-4.05
		Mz	0.22	0.23	0.24	0.25	0.26
	Vento 180	N	-33.077	-33.077	-33.077	-33.077	-33.077
		Vy	-0.086	-0.086	-0.086	-0.086	-0.086
		Vz	-0.724	-0.724	-0.724	-0.724	-0.724
		Mt	0.00	0.00	0.00	0.00	0.00
		My	3.55	3.70	3.85	4.00	4.15
		Mz	0.42	0.44	0.46	0.47	0.49
	Multidão (Passeio)	N	0.011	0.011	0.011	0.011	0.011
		Vy	0.015	0.015	0.015	0.015	0.015
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.91	14.91	14.91	14.91	14.91
		Mz	-0.07	-0.08	-0.08	-0.08	-0.08
	Multidão - TB450	N	-2.374	-2.374	-2.374	-2.374	-2.374
		Vy	-0.427	-0.427	-0.427	-0.427	-0.427
		Vz	-14.061	-10.561	-7.062	-3.562	-0.063
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	241.96	244.50	246.32	247.41	247.79
		Mz	2.09	2.18	2.27	2.35	2.44
	TB-450-A1	N	0.196	0.196	0.196	0.196	0.196
		Vy	0.034	0.034	0.034	0.034	0.034
		Vz	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.03	-0.03
		Mz	-0.17	-0.17	-0.18	-0.19	-0.19
	TB-450-A2	N	0.075	0.075	0.075	0.075	0.075
		Vy	0.036	0.036	0.036	0.036	0.036
		Vz	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.02	-0.02
		Mz	-0.18	-0.19	-0.19	-0.20	-0.21
	TB-450-B1	N	-0.475	-0.475	-0.475	-0.475	-0.475
		Vy	0.032	0.032	0.032	0.032	0.032
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.05	0.05	0.05	0.05
		Mz	-0.16	-0.16	-0.17	-0.18	-0.18
	TB-450-B2	N	0.823	0.823	0.823	0.823	0.823
		Vy	0.044	0.044	0.044	0.044	0.044
		Vz	0.019	0.019	0.019	0.019	0.019
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.09	-0.10	-0.10	-0.11
		Mz	-0.22	-0.23	-0.24	-0.25	-0.25
	TB-450-C1	N	-2.252	-2.252	-2.252	-2.252	-2.252
		Vy	-0.702	-0.702	-0.702	-0.702	-0.702
		Vz	-0.068	-0.068	-0.068	-0.068	-0.068
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.33	0.35	0.36	0.38	0.39
		Mz	3.44	3.59	3.73	3.87	4.02
	TB-450-C2	N	-4.061	-4.061	-4.061	-4.061	-4.061
		Vy	-0.694	-0.694	-0.694	-0.694	-0.694

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	-0.106	-0.106	-0.106	-0.106	-0.106
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.52	0.54	0.56	0.58	0.61
		Mz	3.40	3.55	3.69	3.83	3.98
	TB-450-D1	N	-2.643	-2.643	-2.643	-2.643	-2.643
		Vy	-0.271	-0.271	-0.271	-0.271	-0.271
		Vz	-26.028	-26.028	-26.028	-26.028	-26.028
		Mt	0.00	0.00	0.00	0.00	0.00
		My	127.54	132.91	138.27	143.64	149.01
		Mz	1.33	1.39	1.44	1.50	1.55
	TB-450-D2	N	-1.025	-1.025	-1.025	-1.025	-1.025
		Vy	-0.264	-0.264	-0.264	-0.264	-0.264
		Vz	25.964	25.964	25.964	25.964	25.964
		Mt	0.00	0.00	0.00	0.00	0.00
		My	170.23	164.88	159.52	154.17	148.81
		Mz	1.29	1.35	1.40	1.46	1.51
	TB-450-E1	N	1.082	1.082	1.082	1.082	1.082
		Vy	0.395	0.395	0.395	0.395	0.395
		Vz	-25.944	-25.944	-25.944	-25.944	-25.944
		Mt	0.00	0.00	0.00	0.00	0.00
		My	127.12	132.47	137.83	143.18	148.53
		Mz	-1.93	-2.02	-2.10	-2.18	-2.26
	TB-450-E2	N	2.189	2.189	2.189	2.189	2.189
		Vy	0.370	0.370	0.370	0.370	0.370
		Vz	26.021	26.021	26.021	26.021	26.021
		Mt	0.00	0.00	0.00	0.00	0.00
		My	169.96	164.59	159.22	153.85	148.49
		Mz	-1.81	-1.89	-1.96	-2.04	-2.12

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N85/N115	Peso próprio	N	0.152	0.152	0.152	0.152	0.152

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	0.569	0.995	1.420	1.846	2.272
		Mt	0.00	0.00	0.00	0.00	0.00
		My	37.08	36.92	36.67	36.34	35.91
		Mz	-0.18	-0.17	-0.16	-0.16	-0.15
	Guarda Corpo	N	-0.057	-0.057	-0.057	-0.057	-0.057
		Vy	0.030	0.030	0.030	0.030	0.030
		Vz	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	26.06	26.06	26.06	26.06	26.06
		Mz	0.17	0.17	0.16	0.16	0.15
	Laje	N	-1.378	-1.378	-1.378	-1.378	-1.378
		Vy	0.478	0.478	0.478	0.478	0.478
		Vz	0.048	4.149	8.250	12.351	16.452
		Mt	0.00	0.00	0.00	0.00	0.00
		My	326.12	325.69	324.41	322.28	319.31
		Mz	2.74	2.64	2.54	2.44	2.34
	Pavimentação	N	-0.826	-0.826	-0.826	-0.826	-0.826
		Vy	0.278	0.278	0.278	0.278	0.278
		Vz	0.028	2.434	4.840	7.246	9.652
		Mt	0.00	0.00	0.00	0.00	0.00
		My	183.39	183.14	182.39	181.14	179.40
		Mz	1.59	1.53	1.48	1.42	1.36
	Recapeamento	N	-0.360	-0.360	-0.360	-0.360	-0.360
		Vy	0.123	0.123	0.123	0.123	0.123
		Vz	0.012	1.106	2.200	3.293	4.387
		Mt	0.00	0.00	0.00	0.00	0.00
		My	83.36	83.24	82.90	82.34	81.54
		Mz	0.71	0.68	0.66	0.63	0.61
	Vento 0	N	-20.636	-20.636	-20.636	-20.636	-20.636
		Vy	0.028	0.028	0.028	0.028	0.028
		Vz	0.716	0.716	0.716	0.716	0.716
		Mt	0.00	0.00	0.00	0.00	0.00
		My	4.10	3.95	3.80	3.66	3.51

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	0.16	0.15	0.15	0.14	0.14
	Vento 180	N	30.554	30.554	30.554	30.554	30.554
		Vy	0.100	0.100	0.100	0.100	0.100
		Vz	-0.701	-0.701	-0.701	-0.701	-0.701
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-4.01	-3.87	-3.72	-3.58	-3.43
		Mz	0.57	0.55	0.53	0.51	0.49
	Multidão (Passeio)	N	0.130	0.130	0.130	0.130	0.130
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.89	14.89	14.90	14.90	14.90
		Mz	-0.08	-0.08	-0.08	-0.07	-0.07
	Multidão - TB450	N	-1.320	-1.320	-1.320	-1.320	-1.320
		Vy	0.413	0.413	0.413	0.413	0.413
		Vz	0.044	3.544	7.043	10.543	14.042
		Mt	0.00	0.00	0.00	0.00	0.00
		My	247.68	247.31	246.22	244.41	241.87
		Mz	2.37	2.28	2.20	2.11	2.03
	TB-450-A1	N	0.146	0.146	0.146	0.146	0.146
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.02
		Mz	-0.19	-0.18	-0.18	-0.17	-0.16
	TB-450-A2	N	0.212	0.212	0.212	0.212	0.212
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.03	-0.03	-0.03	-0.03
		Mz	-0.20	-0.19	-0.19	-0.18	-0.17
	TB-450-B1	N	0.666	0.666	0.666	0.666	0.666
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.10	-0.09	-0.09	-0.09	-0.08
		Mz	-0.18	-0.17	-0.16	-0.16	-0.15
	TB-450-B2	N	-0.363	-0.363	-0.363	-0.363	-0.363
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.04	0.04	0.04
		Mz	-0.25	-0.24	-0.23	-0.22	-0.21
	TB-450-C1	N	-3.617	-3.617	-3.617	-3.617	-3.617
		Vy	0.679	0.679	0.679	0.679	0.679
		Vz	0.107	0.107	0.107	0.107	0.107
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.61	0.59	0.57	0.55	0.53
		Mz	3.89	3.75	3.61	3.47	3.33
	TB-450-C2	N	-1.986	-1.986	-1.986	-1.986	-1.986
		Vy	0.673	0.673	0.673	0.673	0.673
		Vz	0.068	0.068	0.068	0.068	0.068
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.39	0.37	0.36	0.35	0.33
		Mz	3.85	3.71	3.58	3.44	3.30
	TB-450-D1	N	-1.128	-1.128	-1.128	-1.128	-1.128
		Vy	0.263	0.263	0.263	0.263	0.263
		Vz	-25.960	-25.960	-25.960	-25.960	-25.960
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.83	154.19	159.54	164.90	170.25
		Mz	1.51	1.45	1.40	1.34	1.29
	TB-450-D2	N	-2.514	-2.514	-2.514	-2.514	-2.514
		Vy	0.255	0.255	0.255	0.255	0.255
		Vz	26.030	26.030	26.030	26.030	26.030
		Mt	0.00	0.00	0.00	0.00	0.00
		My	149.02	143.65	138.28	132.92	127.55
		Mz	1.46	1.41	1.35	1.30	1.25
	TB-450-E1	N	2.140	2.140	2.140	2.140	2.140

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.382	-0.382	-0.382	-0.382	-0.382
		Vz	-26.042	-26.042	-26.042	-26.042	-26.042
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.36	153.74	159.11	164.48	169.85
		Mz	-2.19	-2.11	-2.03	-1.95	-1.87
	TB-450-E2	N	2.374	2.374	2.374	2.374	2.374
		Vy	-0.358	-0.358	-0.358	-0.358	-0.358
		Vz	25.928	25.928	25.928	25.928	25.928
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.44	143.09	137.74	132.40	127.05
		Mz	-2.05	-1.98	-1.90	-1.83	-1.75

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N115/N114	Peso próprio	N	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	2.272	3.156	4.041	4.483	5.368	6.253	7.137	7.579	8.464
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	35.91	34.75	33.21	32.29	30.18	27.69	24.82	23.25	19.81
		Mz	-0.15	-0.14	-0.12	-0.12	-0.10	-0.09	-0.08	-0.07	-0.06
	Guarda Corpo	N	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.06	26.05
		Mz	0.15	0.14	0.12	0.12	0.10	0.09	0.08	0.07	0.06
	Laje	N	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378
		Vy	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478
		Vz	16.452	24.973	33.495	37.755	46.277	54.798	63.320	67.581	76.102
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	319.31	310.44	297.91	290.27	272.27	250.61	225.30	211.27	180.48
		Mz	2.34	2.14	1.93	1.83	1.63	1.42	1.22	1.11	0.91
	Pavimentação	N	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826
		Vy	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
		Vz	9.652	14.651	19.651	22.150	27.149	32.149	37.148	39.648	44.647
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	179.40	174.19	166.84	162.36	151.80	139.09	124.24	116.02	97.95
		Mz	1.36	1.24	1.12	1.06	0.94	0.83	0.71	0.65	0.53
	Recapeamento	N	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360
		Vy	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123
		Vz	4.387	6.659	8.932	10.068	12.340	14.613	16.885	18.021	20.294
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	81.54	79.18	75.84	73.80	69.00	63.22	56.47	52.73	44.52
		Mz	0.61	0.55	0.50	0.47	0.42	0.37	0.31	0.29	0.23
	Vento 0	N	-20.636	-20.636	-20.636	-20.636	-20.636	-20.636	-20.636	-20.636	-20.636
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.51	3.20	2.89	2.74	2.43	2.13	1.82	1.67	1.36
		Mz	0.14	0.12	0.11	0.11	0.09	0.08	0.07	0.06	0.05
	Vento 180	N	30.554	30.554	30.554	30.554	30.554	30.554	30.554	30.554	30.554
		Vy	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
		Vz	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.43	-3.13	-2.83	-2.68	-2.38	-2.08	-1.78	-1.63	-1.33
		Mz	0.49	0.45	0.40	0.38	0.34	0.30	0.25	0.23	0.19
	Multidão (Passeio)	N	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.91
		Mz	-0.07	-0.06	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03
	Multidão - TB450	N	-1.320	-1.320	-1.320	-1.320	-1.320	-1.320	-1.320	-1.320	-1.320
		Vy	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413
		Vz	14.042	21.314	28.585	32.221	39.493	46.764	54.036	57.672	64.944
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	241.87	234.30	223.60	217.09	201.72	183.24	161.64	149.67	123.39
		Mz	2.03	1.85	1.67	1.58	1.41	1.23	1.05	0.96	0.79
	TB-450-A1	N	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.16	-0.15	-0.13	-0.13	-0.11	-0.10	-0.08	-0.08	-0.06
	TB-450-A2	N	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01
		Mz	-0.17	-0.16	-0.14	-0.13	-0.12	-0.10	-0.09	-0.08	-0.07
	TB-450-B1	N	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.08	-0.07	-0.06	-0.06	-0.05	-0.04	-0.04	-0.03
		Mz	-0.15	-0.14	-0.12	-0.12	-0.10	-0.09	-0.08	-0.07	-0.06
	TB-450-B2	N	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01
		Mz	-0.21	-0.19	-0.18	-0.17	-0.15	-0.13	-0.11	-0.10	-0.08
	TB-450-C1	N	-3.617	-3.617	-3.617	-3.617	-3.617	-3.617	-3.617	-3.617	-3.617
		Vy	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
		Vz	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.53	0.48	0.43	0.41	0.36	0.32	0.27	0.25	0.20
		Mz	3.33	3.04	2.75	2.60	2.31	2.02	1.73	1.58	1.29
	TB-450-C2	N	-1.986	-1.986	-1.986	-1.986	-1.986	-1.986	-1.986	-1.986	-1.986
		Vy	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
		Vz	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.33	0.30	0.27	0.26	0.23	0.20	0.17	0.16	0.13
		Mz	3.30	3.01	2.72	2.58	2.29	2.00	1.71	1.57	1.28
	TB-450-D1	N	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128
		Vy	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
		Vz	-25.960	-13.462	-0.964	5.285	17.783	30.282	42.780	49.029	61.527
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	170.25	178.70	181.79	181.33	176.38	166.08	150.43	140.59	116.90
		Mz	1.29	1.18	1.06	1.01	0.89	0.78	0.67	0.61	0.50
	TB-450-D2	N	-2.514	-2.514	-2.514	-2.514	-2.514	-2.514	-2.514	-2.514	-2.514
		Vy	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255
		Vz	26.030	26.030	26.030	26.030	26.030	26.030	26.030	26.030	26.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	127.55	116.39	105.24	99.66	88.50	77.35	66.19	60.61	49.46
		Mz	1.25	1.14	1.03	0.98	0.87	0.76	0.65	0.59	0.48
	TB-450-E1	N	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140
		Vy	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382
		Vz	-26.042	-13.544	-1.046	5.203	17.701	30.199	42.698	48.947	61.445
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	169.85	178.33	181.46	181.01	176.10	165.84	150.22	140.40	116.75
		Mz	-1.87	-1.71	-1.54	-1.46	-1.30	-1.14	-0.97	-0.89	-0.73
	TB-450-E2	N	2.374	2.374	2.374	2.374	2.374	2.374	2.374	2.374	2.374
		Vy	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358
		Vz	25.928	25.928	25.928	25.928	25.928	25.928	25.928	25.928	25.928
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	127.05	115.94	104.82	99.27	88.16	77.04	65.93	60.38	49.26
		Mz	-1.75	-1.60	-1.45	-1.37	-1.22	-1.06	-0.91	-0.83	-0.68

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N114/N113	Peso próprio	N	0.152	0.152	0.152
		Vy	-0.031	-0.031	-0.031
		Vz	8.464	8.877	9.290
		Mt	0.00	0.00	0.00
		My	19.81	18.07	16.26
		Mz	-0.06	-0.05	-0.05
	Guarda Corpo	N	-0.057	-0.057	-0.057
		Vy	0.030	0.030	0.030
		Vz	0.002	7.664	15.326
		Mt	0.00	0.00	0.00
		My	26.05	25.29	22.99
		Mz	0.06	0.05	0.05
	Laje	N	-1.378	-1.378	-1.378
		Vy	0.478	0.478	0.478
		Vz	76.102	80.079	84.055
		Mt	0.00	0.00	0.00
		My	180.48	164.87	148.45
		Mz	0.91	0.81	0.72

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Pavimentação	N	-0.826	-0.826	-0.826
		Vy	0.278	0.278	0.278
		Vz	44.647	44.647	44.647
		Mt	0.00	0.00	0.00
		My	97.95	89.02	80.09
		Mz	0.53	0.47	0.42
	Recapeamento	N	-0.360	-0.360	-0.360
		Vy	0.123	0.123	0.123
		Vz	20.294	20.294	20.294
		Mt	0.00	0.00	0.00
		My	44.52	40.46	36.41
		Mz	0.23	0.21	0.19
	Vento 0	N	-20.636	-20.636	-20.636
		Vy	0.028	0.028	0.028
		Vz	0.716	0.716	0.716
		Mt	0.00	0.00	0.00
		My	1.36	1.22	1.07
		Mz	0.05	0.05	0.04
	Vento 180	N	30.554	30.554	30.554
		Vy	0.100	0.100	0.100
		Vz	-0.701	-0.701	-0.701
		Mt	0.00	0.00	0.00
		My	-1.33	-1.19	-1.05
		Mz	0.19	0.17	0.15
	Multidão (Passeio)	N	0.130	0.130	0.130
		Vy	-0.014	-0.014	-0.014
		Vz	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00
		My	14.91	14.91	14.91
		Mz	-0.03	-0.02	-0.02
	Multidão - TB450	N	-1.320	-1.320	-1.320
		Vy	0.413	0.413	0.413
		Vz	64.944	64.944	64.944
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	123.39	110.40	97.42
		Mz	0.79	0.70	0.62
	TB-450-A1	N	0.146	0.146	0.146
		Vy	-0.033	-0.033	-0.033
		Vz	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	-0.06	-0.06	-0.05
	TB-450-A2	N	0.212	0.212	0.212
		Vy	-0.035	-0.035	-0.035
		Vz	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	-0.07	-0.06	-0.05
	TB-450-B1	N	0.666	0.666	0.666
		Vy	-0.031	-0.031	-0.031
		Vz	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03
		Mz	-0.06	-0.05	-0.05
	TB-450-B2	N	-0.363	-0.363	-0.363
		Vy	-0.043	-0.043	-0.043
		Vz	0.007	0.007	0.007
		Mt	0.00	0.00	0.00
		My	0.01	0.01	0.01
		Mz	-0.08	-0.07	-0.06
	TB-450-C1	N	-3.617	-3.617	-3.617
		Vy	0.679	0.679	0.679
		Vz	0.107	0.107	0.107
		Mt	0.00	0.00	0.00
		My	0.20	0.18	0.16
		Mz	1.29	1.16	1.02
	TB-450-C2	N	-1.986	-1.986	-1.986
		Vy	0.673	0.673	0.673

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.068	0.068	0.068
		Mt	0.00	0.00	0.00
		My	0.13	0.12	0.10
		Mz	1.28	1.14	1.01
	TB-450-D1	N	-1.128	-1.128	-1.128
		Vy	0.263	0.263	0.263
		Vz	61.527	61.527	61.527
		Mt	0.00	0.00	0.00
		My	116.90	104.60	92.29
		Mz	0.50	0.45	0.39
	TB-450-D2	N	-2.514	-2.514	-2.514
		Vy	0.255	0.255	0.255
		Vz	26.030	26.030	26.030
		Mt	0.00	0.00	0.00
		My	49.46	44.25	39.04
		Mz	0.48	0.43	0.38
	TB-450-E1	N	2.140	2.140	2.140
		Vy	-0.382	-0.382	-0.382
		Vz	61.445	61.445	61.445
		Mt	0.00	0.00	0.00
		My	116.75	104.46	92.17
		Mz	-0.73	-0.65	-0.57
	TB-450-E2	N	2.374	2.374	2.374
		Vy	-0.358	-0.358	-0.358
		Vz	25.928	25.928	25.928
		Mt	0.00	0.00	0.00
		My	49.26	44.08	38.89
		Mz	-0.68	-0.61	-0.54

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N113/N12	Peso próprio	N	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	9.290	9.677	10.064	10.451	10.838	11.225	11.612	11.999	12.386
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.26	14.48	12.63	10.70	8.71	6.64	4.50	2.29	0.00
		Mz	-0.05	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Guarda Corpo	N	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	15.326	15.326	15.326	15.326	15.326	15.326	15.326	15.326	15.326
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.99	20.12	17.24	14.37	11.49	8.62	5.75	2.87	0.00
		Mz	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	Laje	N	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378	-1.378
		Vy	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478	0.478
		Vz	84.055	87.784	91.512	95.240	98.968	102.696	106.424	110.152	113.881
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	148.45	132.34	115.53	98.03	79.82	60.91	41.31	21.00	0.00
		Mz	0.72	0.63	0.54	0.45	0.36	0.27	0.18	0.09	0.00
	Pavimentação	N	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826	-0.826
		Vy	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
		Vz	44.647	46.834	49.021	51.208	53.396	55.583	57.770	59.957	62.144
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	80.09	71.52	62.53	53.13	43.33	33.11	22.48	11.45	0.00
		Mz	0.42	0.36	0.31	0.26	0.21	0.16	0.10	0.05	0.00
	Recapeamento	N	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360	-0.360
		Vy	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123
		Vz	20.294	21.288	22.282	23.276	24.270	25.264	26.259	27.253	28.247
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.41	32.51	28.42	24.15	19.69	15.05	10.22	5.20	0.00
		Mz	0.19	0.16	0.14	0.12	0.09	0.07	0.05	0.02	0.00
	Vento 0	N	-20.636	-20.636	-20.636	-20.636	-20.636	-20.636	-20.636	-20.636	-20.636
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.07	0.94	0.81	0.67	0.54	0.40	0.27	0.13	0.00
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	Vento 180	N	30.554	30.554	30.554	30.554	30.554	30.554	30.554	30.554	30.554
		Vy	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
		Vz	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.05	-0.92	-0.79	-0.66	-0.53	-0.39	-0.26	-0.13	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.15	0.13	0.11	0.09	0.08	0.06	0.04	0.02	0.00
	Multidão (Passeio)	N	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.003	2.482	4.968	7.453	9.938	12.424	14.909	17.395	19.880
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.91	14.68	13.98	12.81	11.18	9.09	6.52	3.49	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Multidão - TB450	N	-1.320	-1.320	-1.320	-1.320	-1.320	-1.320	-1.320	-1.320	-1.320
		Vy	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413
		Vz	64.944	64.944	64.944	64.944	64.944	64.944	64.944	64.944	64.944
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.42	85.24	73.06	60.88	48.71	36.53	24.35	12.18	0.00
		Mz	0.62	0.54	0.47	0.39	0.31	0.23	0.16	0.08	0.00
	TB-450-A1	N	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-A2	N	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
		Mz	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
	TB-450-B1	N	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.05	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-B2	N	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
		Mz	-0.06	-0.06	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
	TB-450-C1	N	-3.617	-3.617	-3.617	-3.617	-3.617	-3.617	-3.617	-3.617	-3.617
		Vy	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.16	0.14	0.12	0.10	0.08	0.06	0.04	0.02	0.00
		Mz	1.02	0.89	0.76	0.64	0.51	0.38	0.25	0.13	0.00
	TB-450-C2	N	-1.986	-1.986	-1.986	-1.986	-1.986	-1.986	-1.986	-1.986	-1.986
		Vy	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
		Vz	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.10	0.09	0.08	0.06	0.05	0.04	0.03	0.01	0.00
		Mz	1.01	0.88	0.76	0.63	0.50	0.38	0.25	0.13	0.00
	TB-450-D1	N	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128	-1.128
		Vy	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
		Vz	61.527	61.527	61.527	61.527	61.527	61.527	61.527	61.527	61.527
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	92.29	80.75	69.22	57.68	46.15	34.61	23.07	11.54	0.00
		Mz	0.39	0.35	0.30	0.25	0.20	0.15	0.10	0.05	0.00
	TB-450-D2	N	-2.514	-2.514	-2.514	-2.514	-2.514	-2.514	-2.514	-2.514	-2.514
		Vy	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255
		Vz	26.030	26.030	26.030	26.030	26.030	26.030	26.030	26.030	26.030
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	39.04	34.16	29.28	24.40	19.52	14.64	9.76	4.88	0.00
		Mz	0.38	0.33	0.29	0.24	0.19	0.14	0.10	0.05	0.00
	TB-450-E1	N	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140	2.140
		Vy	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382	-0.382
		Vz	61.445	61.445	61.445	61.445	61.445	61.445	61.445	61.445	61.445
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	92.17	80.65	69.13	57.60	46.08	34.56	23.04	11.52	0.00
		Mz	-0.57	-0.50	-0.43	-0.36	-0.29	-0.21	-0.14	-0.07	0.00
	TB-450-E2	N	2.374	2.374	2.374	2.374	2.374	2.374	2.374	2.374	2.374
		Vy	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358	-0.358
		Vz	25.928	25.928	25.928	25.928	25.928	25.928	25.928	25.928	25.928
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.89	34.03	29.17	24.31	19.45	14.58	9.72	4.86	0.00
		Mz	-0.54	-0.47	-0.40	-0.34	-0.27	-0.20	-0.13	-0.07	0.00

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N29/N104	Peso próprio	N	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Vz	-12.374	-11.987	-11.600	-11.213	-10.826	-10.439	-10.052	-9.665	-9.278
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.28	4.50	6.63	8.70	10.69	12.61	14.46	16.24
		Mz	0.00	-0.02	-0.03	-0.05	-0.07	-0.09	-0.10	-0.12	-0.14
	Guarda Corpo	N	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-15.329	-15.329	-15.329	-15.329	-15.329	-15.329	-15.329	-15.329	-15.329
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.87	5.75	8.62	11.50	14.37	17.25	20.12	22.99
		Mz	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
	Laje	N	-1.444	-1.444	-1.444	-1.444	-1.444	-1.444	-1.444	-1.444	-1.444
		Vy	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350
		Vz	-113.910	-110.182	-106.454	-102.726	-98.998	-95.269	-91.541	-87.813	-84.085
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	21.01	41.32	60.93	79.84	98.05	115.57	132.38	148.50
		Mz	0.00	0.07	0.13	0.20	0.26	0.33	0.39	0.46	0.53
	Pavimentação	N	-0.783	-0.783	-0.783	-0.783	-0.783	-0.783	-0.783	-0.783	-0.783
		Vy	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207
		Vz	-62.160	-59.973	-57.786	-55.599	-53.411	-51.224	-49.037	-46.850	-44.663
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	11.45	22.49	33.12	43.34	53.15	62.55	71.54	80.12
		Mz	0.00	0.04	0.08	0.12	0.16	0.19	0.23	0.27	0.31
	Recapeamento	N	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	-28.254	-27.260	-26.266	-25.272	-24.278	-23.284	-22.289	-21.295	-20.301
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.20	10.22	15.05	19.70	24.16	28.43	32.52	36.42
		Mz	0.00	0.02	0.03	0.05	0.07	0.09	0.10	0.12	0.14
	Vento 0	N	72.570	72.570	72.570	72.570	72.570	72.570	72.570	72.570	72.570
		Vy	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372
		Vz	1.583	1.583	1.583	1.583	1.583	1.583	1.583	1.583	1.583
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.30	-0.59	-0.89	-1.19	-1.48	-1.78	-2.08	-2.37
		Mz	0.00	-0.07	-0.14	-0.21	-0.28	-0.35	-0.42	-0.49	-0.56
	Vento 180	N	-63.589	-63.589	-63.589	-63.589	-63.589	-63.589	-63.589	-63.589	-63.589
		Vy	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504
		Vz	-1.603	-1.603	-1.603	-1.603	-1.603	-1.603	-1.603	-1.603	-1.603
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.00	0.30	0.60	0.90	1.20	1.50	1.80	2.10	2.40
		Mz	0.00	0.09	0.19	0.28	0.38	0.47	0.57	0.66	0.76
	Multidão (Passeio)	N	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	-19.883	-17.397	-14.912	-12.426	-9.941	-7.455	-4.970	-2.485	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	3.49	6.52	9.09	11.18	12.81	13.98	14.68	14.91
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05
	Multidão - TB450	N	-0.972	-0.972	-0.972	-0.972	-0.972	-0.972	-0.972	-0.972	-0.972
		Vy	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339
		Vz	-64.964	-64.964	-64.964	-64.964	-64.964	-64.964	-64.964	-64.964	-64.964
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	12.18	24.36	36.54	48.72	60.90	73.08	85.27	97.45
		Mz	0.00	0.06	0.13	0.19	0.25	0.32	0.38	0.45	0.51
	TB-450-A1	N	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
	TB-450-A2	N	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268
		Vy	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
	TB-450-B1	N	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03
		Mz	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05	-0.06	-0.06
	TB-450-B2	N	1.231	1.231	1.231	1.231	1.231	1.231	1.231	1.231	1.231
		Vy	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
		Vz	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05
		Mz	0.00	-0.01	-0.03	-0.04	-0.05	-0.07	-0.08	-0.09	-0.11
	TB-450-C1	N	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628
		Vz	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06
		Mz	0.00	0.12	0.24	0.35	0.47	0.59	0.71	0.82	0.94
	TB-450-C2	N	-2.090	-2.090	-2.090	-2.090	-2.090	-2.090	-2.090	-2.090	-2.090
		Vy	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645
		Vz	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.05	0.07	0.09	0.12	0.14	0.16	0.19
		Mz	0.00	0.12	0.24	0.36	0.48	0.60	0.73	0.85	0.97
	TB-450-D1	N	-1.789	-1.789	-1.789	-1.789	-1.789	-1.789	-1.789	-1.789	-1.789
		Vy	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738
		Vz	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.05	0.07	0.09	0.12	0.14	0.16	0.18
		Mz	0.00	0.14	0.28	0.42	0.55	0.69	0.83	0.97	1.11
	TB-450-D2	N	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146
		Vy	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708
		Vz	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.06	0.07	0.08	0.09
		Mz	0.00	0.13	0.27	0.40	0.53	0.66	0.80	0.93	1.06
	TB-450-E1	N	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821
		Vy	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609
		Vz	-37.734	-37.734	-37.734	-37.734	-37.734	-37.734	-37.734	-37.734	-37.734
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	7.08	14.15	21.23	28.30	35.38	42.45	49.53	56.60
		Mz	0.00	-0.11	-0.23	-0.34	-0.46	-0.57	-0.69	-0.80	-0.91
	TB-450-E2	N	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371
		Vy	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
		Vz	-122.907	-122.907	-122.907	-122.907	-122.907	-122.907	-122.907	-122.907	-122.907
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	23.05	46.09	69.14	92.18	115.23	138.27	161.32	184.36
		Mz	0.00	-0.16	-0.32	-0.49	-0.65	-0.81	-0.97	-1.14	-1.30

Esforços em barras, por hipóteses/ações			
Barra	Hipótese	Esforço	Posições na barra

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			0.000 m	0.200 m	0.400 m
N104/N105	Peso próprio	N	0.176	0.176	0.176
		Vy	0.093	0.093	0.093
		Vz	-9.278	-8.865	-8.452
		Mt	0.00	0.00	0.00
		My	16.24	18.05	19.78
		Mz	-0.14	-0.16	-0.18
	Guarda Corpo	N	-0.158	-0.158	-0.158
		Vy	-0.013	-0.013	-0.013
		Vz	-15.329	-7.667	-0.005
		Mt	0.00	0.00	0.00
		My	22.99	25.29	26.06
		Mz	0.02	0.02	0.03
	Laje	N	-1.444	-1.444	-1.444
		Vy	-0.350	-0.350	-0.350
		Vz	-84.085	-80.108	-76.132
		Mt	0.00	0.00	0.00
		My	148.50	164.92	180.54
		Mz	0.53	0.60	0.67
	Pavimentação	N	-0.783	-0.783	-0.783
		Vy	-0.207	-0.207	-0.207
		Vz	-44.663	-44.663	-44.663
		Mt	0.00	0.00	0.00
		My	80.12	89.05	97.98
		Mz	0.31	0.35	0.39
	Recapeamento	N	-0.363	-0.363	-0.363
		Vy	-0.092	-0.092	-0.092
		Vz	-20.301	-20.301	-20.301
		Mt	0.00	0.00	0.00
		My	36.42	40.48	44.54
		Mz	0.14	0.16	0.17
	Vento 0	N	72.570	72.570	72.570
		Vy	0.372	0.372	0.372
		Vz	1.583	1.583	1.583
		Mt	0.00	0.00	0.00
		My	-2.37	-2.69	-3.01
		Mz	-0.56	-0.63	-0.71

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Vento 180	N	-63.589	-63.589	-63.589
		Vy	-0.504	-0.504	-0.504
		Vz	-1.603	-1.603	-1.603
		Mt	0.00	0.00	0.00
		My	2.40	2.73	3.05
		Mz	0.76	0.86	0.96
	Multidão (Passeio)	N	-0.148	-0.148	-0.148
		Vy	0.036	0.036	0.036
		Vz	0.001	0.001	0.001
		Mt	0.00	0.00	0.00
		My	14.91	14.91	14.91
		Mz	-0.05	-0.06	-0.07
	Multidão - TB450	N	-0.972	-0.972	-0.972
		Vy	-0.339	-0.339	-0.339
		Vz	-64.964	-64.964	-64.964
		Mt	0.00	0.00	0.00
		My	97.45	110.44	123.43
		Mz	0.51	0.58	0.64
	TB-450-A1	N	-0.115	-0.115	-0.115
		Vy	0.037	0.037	0.037
		Vz	0.002	0.002	0.002
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	-0.06	-0.06	-0.07
	TB-450-A2	N	-0.268	-0.268	-0.268
		Vy	0.039	0.039	0.039
		Vz	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	-0.06	-0.07	-0.07
	TB-450-B1	N	-1.270	-1.270	-1.270
		Vy	0.043	0.043	0.043
		Vz	-0.022	-0.022	-0.022
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	0.03	0.04	0.04
		Mz	-0.06	-0.07	-0.08
	TB-450-B2	N	1.231	1.231	1.231
		Vy	0.070	0.070	0.070
		Vz	0.035	0.035	0.035
		Mt	0.00	0.00	0.00
		My	-0.05	-0.06	-0.07
		Mz	-0.11	-0.12	-0.13
	TB-450-C1	N	1.720	1.720	1.720
		Vy	-0.628	-0.628	-0.628
		Vz	-0.041	-0.041	-0.041
		Mt	0.00	0.00	0.00
		My	0.06	0.07	0.08
		Mz	0.94	1.07	1.19
	TB-450-C2	N	-2.090	-2.090	-2.090
		Vy	-0.645	-0.645	-0.645
		Vz	-0.125	-0.125	-0.125
		Mt	0.00	0.00	0.00
		My	0.19	0.21	0.24
		Mz	0.97	1.10	1.23
	TB-450-D1	N	-1.789	-1.789	-1.789
		Vy	-0.738	-0.738	-0.738
		Vz	-0.123	-0.123	-0.123
		Mt	0.00	0.00	0.00
		My	0.18	0.21	0.23
		Mz	1.11	1.25	1.40
	TB-450-D2	N	1.146	1.146	1.146
		Vy	-0.708	-0.708	-0.708
		Vz	-0.060	-0.060	-0.060
		Mt	0.00	0.00	0.00
		My	0.09	0.10	0.11
		Mz	1.06	1.20	1.35
	TB-450-E1	N	-0.821	-0.821	-0.821
		Vy	0.609	0.609	0.609

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	-37.734	-37.734	-37.734
		Mt	0.00	0.00	0.00
		My	56.60	64.15	71.69
		Mz	-0.91	-1.04	-1.16
	TB-450-E2	N	0.371	0.371	0.371
		Vy	0.866	0.866	0.866
		Vz	-122.907	-122.907	-122.907
		Mt	0.00	0.00	0.00
		My	184.36	208.94	233.52
		Mz	-1.30	-1.47	-1.65

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N105/N106	Peso próprio	N	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176
		Vy	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Vz	-8.452	-7.568	-6.683	-6.241	-5.356	-4.472	-3.587	-3.145	-2.260
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.78	23.22	26.27	27.66	30.14	32.25	33.97	34.70	35.85
		Mz	-0.18	-0.22	-0.26	-0.28	-0.32	-0.35	-0.39	-0.41	-0.45
	Guarda Corpo	N	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.06	26.06	26.06	26.07	26.07	26.07	26.07	26.07	26.08
		Mz	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07
	Laje	N	-1.444	-1.444	-1.444	-1.444	-1.444	-1.444	-1.444	-1.444	-1.444
		Vy	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350
		Vz	-76.132	-67.610	-59.089	-54.828	-46.306	-37.785	-29.264	-25.003	-16.481
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	180.54	211.34	238.49	250.70	272.37	290.39	304.76	310.57	319.46
		Mz	0.67	0.82	0.97	1.04	1.19	1.34	1.49	1.57	1.72
	Pavimentação	N	-0.783	-0.783	-0.783	-0.783	-0.783	-0.783	-0.783	-0.783	-0.783
		Vy	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207	-0.207
		Vz	-44.663	-39.663	-34.664	-32.164	-27.165	-22.166	-17.167	-14.667	-9.668
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.98	116.05	131.98	139.14	151.85	162.42	170.85	174.26	179.48

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.39	0.48	0.57	0.62	0.71	0.79	0.88	0.93	1.02
	Recapeamento	N	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363	-0.363
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	-20.301	-18.029	-15.756	-14.620	-12.348	-10.075	-7.803	-6.667	-4.394
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.54	52.75	59.99	63.24	69.02	73.83	77.66	79.21	81.58
		Mz	0.17	0.21	0.25	0.27	0.31	0.35	0.39	0.41	0.45
	Vento 0	N	72.570	72.570	72.570	72.570	72.570	72.570	72.570	72.570	72.570
		Vy	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372
		Vz	1.583	1.583	1.583	1.583	1.583	1.583	1.583	1.583	1.583
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.01	-3.69	-4.37	-4.70	-5.38	-6.06	-6.74	-7.08	-7.76
		Mz	-0.71	-0.87	-1.03	-1.10	-1.26	-1.42	-1.58	-1.66	-1.82
	Vento 180	N	-63.589	-63.589	-63.589	-63.589	-63.589	-63.589	-63.589	-63.589	-63.589
		Vy	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504
		Vz	-1.603	-1.603	-1.603	-1.603	-1.603	-1.603	-1.603	-1.603	-1.603
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.05	3.73	4.42	4.76	5.45	6.14	6.82	7.17	7.86
		Mz	0.96	1.17	1.39	1.50	1.71	1.93	2.14	2.25	2.47
	Multidão (Passeio)	N	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91
		Mz	-0.07	-0.08	-0.10	-0.11	-0.12	-0.14	-0.15	-0.16	-0.18
	Multidão - TB450	N	-0.972	-0.972	-0.972	-0.972	-0.972	-0.972	-0.972	-0.972	-0.972
		Vy	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339
		Vz	-64.964	-57.693	-50.421	-46.785	-39.514	-32.242	-24.970	-21.334	-14.063
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	123.43	149.72	172.88	183.30	201.79	217.17	229.43	234.39	241.97
		Mz	0.64	0.79	0.94	1.01	1.15	1.30	1.44	1.52	1.66
	TB-450-A1	N	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115	-0.115
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.07	-0.09	-0.10	-0.11	-0.13	-0.14	-0.16	-0.17	-0.18
	TB-450-A2	N	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268
		Vy	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
		Mz	-0.07	-0.09	-0.11	-0.11	-0.13	-0.15	-0.16	-0.17	-0.19
	TB-450-B1	N	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.11
		Mz	-0.08	-0.10	-0.12	-0.13	-0.15	-0.16	-0.18	-0.19	-0.21
	TB-450-B2	N	1.231	1.231	1.231	1.231	1.231	1.231	1.231	1.231	1.231
		Vy	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
		Vz	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.08	-0.10	-0.10	-0.12	-0.13	-0.15	-0.16	-0.17
		Mz	-0.13	-0.16	-0.19	-0.21	-0.24	-0.27	-0.30	-0.31	-0.34
	TB-450-C1	N	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720
		Vy	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628	-0.628
		Vz	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.08	0.10	0.11	0.12	0.14	0.16	0.18	0.19	0.20
		Mz	1.19	1.46	1.73	1.87	2.13	2.40	2.67	2.81	3.08
	TB-450-C2	N	-2.090	-2.090	-2.090	-2.090	-2.090	-2.090	-2.090	-2.090	-2.090
		Vy	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645	-0.645
		Vz	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.24	0.29	0.35	0.37	0.43	0.48	0.53	0.56	0.61
		Mz	1.23	1.50	1.78	1.92	2.19	2.47	2.75	2.89	3.16
	TB-450-D1	N	-1.789	-1.789	-1.789	-1.789	-1.789	-1.789	-1.789	-1.789	-1.789
		Vy	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738	-0.738
		Vz	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.23	0.29	0.34	0.37	0.42	0.47	0.52	0.55	0.60
		Mz	1.40	1.72	2.04	2.19	2.51	2.83	3.14	3.30	3.62
	TB-450-D2	N	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146
		Vy	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708
		Vz	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.11	0.14	0.16	0.18	0.20	0.23	0.25	0.27	0.29

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	1.35	1.65	1.95	2.10	2.41	2.71	3.01	3.17	3.47
	TB-450-E1	N	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821	-0.821
		Vy	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609
		Vz	-37.734	-37.734	-37.734	-37.734	-37.734	-37.734	-37.734	-37.734	-37.734
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	71.69	87.87	104.04	112.12	128.30	144.47	160.64	168.72	184.90
		Mz	-1.16	-1.42	-1.68	-1.81	-2.07	-2.33	-2.59	-2.72	-2.98
	TB-450-E2	N	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371
		Vy	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
		Vz	-122.907	-97.911	-72.915	-60.416	-35.420	-10.424	14.573	27.071	52.067
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	233.52	280.84	317.45	331.73	352.27	362.09	361.20	356.74	339.78
		Mz	-1.65	-2.02	-2.39	-2.57	-2.94	-3.32	-3.69	-3.87	-4.24

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N106/N86	Peso próprio	N	0.176	0.176	0.176	0.176	0.176
		Vy	0.093	0.093	0.093	0.093	0.093
		Vz	-2.260	-1.834	-1.409	-0.983	-0.557
		Mt	0.00	0.00	0.00	0.00	0.00
		My	35.85	36.28	36.61	36.86	37.02
		Mz	-0.45	-0.47	-0.49	-0.51	-0.53
	Guarda Corpo	N	-0.158	-0.158	-0.158	-0.158	-0.158
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00
		My	26.08	26.08	26.08	26.08	26.08
		Mz	0.07	0.07	0.07	0.07	0.08
	Laje	N	-1.444	-1.444	-1.444	-1.444	-1.444
		Vy	-0.350	-0.350	-0.350	-0.350	-0.350
		Vz	-16.481	-12.380	-8.279	-4.178	-0.077
		Mt	0.00	0.00	0.00	0.00	0.00
		My	319.46	322.44	324.57	325.85	326.29
		Mz	1.72	1.79	1.86	1.93	2.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	Pavimentação	N	-0.783	-0.783	-0.783	-0.783	-0.783
		Vy	-0.207	-0.207	-0.207	-0.207	-0.207
		Vz	-9.668	-7.262	-4.856	-2.450	-0.044
		Mt	0.00	0.00	0.00	0.00	0.00
		My	179.48	181.22	182.47	183.23	183.48
		Mz	1.02	1.06	1.10	1.14	1.19
	Recapeamento	N	-0.363	-0.363	-0.363	-0.363	-0.363
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	-4.394	-3.301	-2.207	-1.114	-0.020
		Mt	0.00	0.00	0.00	0.00	0.00
		My	81.58	82.37	82.94	83.28	83.40
		Mz	0.45	0.47	0.49	0.51	0.52
	Vento 0	N	72.570	72.570	72.570	72.570	72.570
		Vy	0.372	0.372	0.372	0.372	0.372
		Vz	1.583	1.583	1.583	1.583	1.583
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-7.76	-8.08	-8.41	-8.74	-9.06
		Mz	-1.82	-1.90	-1.98	-2.05	-2.13
	Vento 180	N	-63.589	-63.589	-63.589	-63.589	-63.589
		Vy	-0.504	-0.504	-0.504	-0.504	-0.504
		Vz	-1.603	-1.603	-1.603	-1.603	-1.603
		Mt	0.00	0.00	0.00	0.00	0.00
		My	7.86	8.19	8.52	8.85	9.18
		Mz	2.47	2.57	2.68	2.78	2.88
	Multidão (Passeio)	N	-0.148	-0.148	-0.148	-0.148	-0.148
		Vy	0.036	0.036	0.036	0.036	0.036
		Vz	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.91	14.91	14.91	14.91	14.91
		Mz	-0.18	-0.18	-0.19	-0.20	-0.21
	Multidão - TB450	N	-0.972	-0.972	-0.972	-0.972	-0.972
		Vy	-0.339	-0.339	-0.339	-0.339	-0.339
		Vz	-14.063	-10.563	-7.064	-3.564	-0.065
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	241.97	244.51	246.33	247.43	247.80
		Mz	1.66	1.73	1.80	1.87	1.94
	TB-450-A1	N	-0.115	-0.115	-0.115	-0.115	-0.115
		Vy	0.037	0.037	0.037	0.037	0.037
		Vz	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	-0.18	-0.19	-0.20	-0.21	-0.21
	TB-450-A2	N	-0.268	-0.268	-0.268	-0.268	-0.268
		Vy	0.039	0.039	0.039	0.039	0.039
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01
		Mz	-0.19	-0.20	-0.20	-0.21	-0.22
	TB-450-B1	N	-1.270	-1.270	-1.270	-1.270	-1.270
		Vy	0.043	0.043	0.043	0.043	0.043
		Vz	-0.022	-0.022	-0.022	-0.022	-0.022
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.11	0.11	0.12	0.12	0.13
		Mz	-0.21	-0.22	-0.23	-0.24	-0.24
	TB-450-B2	N	1.231	1.231	1.231	1.231	1.231
		Vy	0.070	0.070	0.070	0.070	0.070
		Vz	0.035	0.035	0.035	0.035	0.035
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.17	-0.18	-0.18	-0.19	-0.20
		Mz	-0.34	-0.36	-0.37	-0.39	-0.40
	TB-450-C1	N	1.720	1.720	1.720	1.720	1.720
		Vy	-0.628	-0.628	-0.628	-0.628	-0.628
		Vz	-0.041	-0.041	-0.041	-0.041	-0.041
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.20	0.21	0.22	0.23	0.24
		Mz	3.08	3.21	3.34	3.47	3.59
	TB-450-C2	N	-2.090	-2.090	-2.090	-2.090	-2.090
		Vy	-0.645	-0.645	-0.645	-0.645	-0.645

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	-0.125	-0.125	-0.125	-0.125	-0.125
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.61	0.64	0.67	0.69	0.72
		Mz	3.16	3.30	3.43	3.56	3.69
	TB-450-D1	N	-1.789	-1.789	-1.789	-1.789	-1.789
		Vy	-0.738	-0.738	-0.738	-0.738	-0.738
		Vz	-0.123	-0.123	-0.123	-0.123	-0.123
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.60	0.63	0.65	0.68	0.70
		Mz	3.62	3.77	3.92	4.07	4.23
	TB-450-D2	N	1.146	1.146	1.146	1.146	1.146
		Vy	-0.708	-0.708	-0.708	-0.708	-0.708
		Vz	-0.060	-0.060	-0.060	-0.060	-0.060
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.29	0.30	0.32	0.33	0.34
		Mz	3.47	3.61	3.76	3.91	4.05
	TB-450-E1	N	-0.821	-0.821	-0.821	-0.821	-0.821
		Vy	0.609	0.609	0.609	0.609	0.609
		Vz	-37.734	-37.734	-37.734	-37.734	-37.734
		Mt	0.00	0.00	0.00	0.00	0.00
		My	184.90	192.68	200.46	208.24	216.03
		Mz	-2.98	-3.11	-3.24	-3.36	-3.49
	TB-450-E2	N	0.371	0.371	0.371	0.371	0.371
		Vy	0.866	0.866	0.866	0.866	0.866
		Vz	52.067	52.067	52.067	52.067	52.067
		Mt	0.00	0.00	0.00	0.00	0.00
		My	339.78	329.05	318.31	307.57	296.83
		Mz	-4.24	-4.42	-4.60	-4.78	-4.96

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N86/N109	Peso próprio	N	-0.050	-0.050	-0.050	-0.050	-0.050

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.087	-0.087	-0.087	-0.087	-0.087
		Vz	0.563	0.988	1.414	1.840	2.265
		Mt	0.00	0.00	0.00	0.00	0.00
		My	37.05	36.89	36.64	36.30	35.88
		Mz	-0.50	-0.48	-0.46	-0.44	-0.43
	Guarda Corpo	N	0.184	0.184	0.184	0.184	0.184
		Vy	0.013	0.013	0.013	0.013	0.013
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00
		My	26.04	26.04	26.04	26.04	26.04
		Mz	0.07	0.07	0.07	0.07	0.06
	Laje	N	1.749	1.749	1.749	1.749	1.749
		Vy	0.340	0.340	0.340	0.340	0.340
		Vz	0.010	4.111	8.212	12.313	16.414
		Mt	0.00	0.00	0.00	0.00	0.00
		My	325.90	325.48	324.21	322.09	319.13
		Mz	1.95	1.88	1.81	1.74	1.67
	Pavimentação	N	0.959	0.959	0.959	0.959	0.959
		Vy	0.201	0.201	0.201	0.201	0.201
		Vz	0.008	2.414	4.819	7.225	9.631
		Mt	0.00	0.00	0.00	0.00	0.00
		My	183.27	183.02	182.28	181.04	179.30
		Mz	1.15	1.11	1.07	1.03	0.99
	Recapeamento	N	0.441	0.441	0.441	0.441	0.441
		Vy	0.089	0.089	0.089	0.089	0.089
		Vz	0.003	1.097	2.190	3.284	4.377
		Mt	0.00	0.00	0.00	0.00	0.00
		My	83.30	83.19	82.85	82.29	81.50
		Mz	0.51	0.49	0.47	0.45	0.44
	Vento 0	N	-64.554	-64.554	-64.554	-64.554	-64.554
		Vy	-0.396	-0.396	-0.396	-0.396	-0.396
		Vz	1.486	1.486	1.486	1.486	1.486
		Mt	0.00	0.00	0.00	0.00	0.00
		My	8.51	8.20	7.89	7.59	7.28

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	-2.27	-2.19	-2.10	-2.02	-1.94
	Vento 180	N	73.906	73.906	73.906	73.906	73.906
		Vy	0.524	0.524	0.524	0.524	0.524
		Vz	-1.473	-1.473	-1.473	-1.473	-1.473
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-8.43	-8.13	-7.82	-7.52	-7.22
		Mz	3.00	2.89	2.78	2.67	2.57
	Multidão (Passeio)	N	0.159	0.159	0.159	0.159	0.159
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00
		My	14.87	14.87	14.87	14.87	14.87
		Mz	-0.20	-0.19	-0.18	-0.18	-0.17
	Multidão - TB450	N	1.208	1.208	1.208	1.208	1.208
		Vy	0.329	0.329	0.329	0.329	0.329
		Vz	0.020	3.520	7.019	10.518	14.018
		Mt	0.00	0.00	0.00	0.00	0.00
		My	247.54	247.18	246.09	244.28	241.75
		Mz	1.88	1.82	1.75	1.68	1.61
	TB-450-A1	N	0.061	0.061	0.061	0.061	0.061
		Vy	-0.036	-0.036	-0.036	-0.036	-0.036
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.04	-0.04	-0.03
		Mz	-0.21	-0.20	-0.19	-0.18	-0.18
	TB-450-A2	N	0.289	0.289	0.289	0.289	0.289
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.06	-0.06	-0.06	-0.06
		Mz	-0.21	-0.21	-0.20	-0.19	-0.18
	TB-450-B1	N	1.176	1.176	1.176	1.176	1.176
		Vy	-0.041	-0.041	-0.041	-0.041	-0.041
		Vz	-0.033	-0.033	-0.033	-0.033	-0.033

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	-0.19	-0.18	-0.18	-0.17	-0.16
		Mz	-0.23	-0.23	-0.22	-0.21	-0.20
	TB-450-B2	N	-1.129	-1.129	-1.129	-1.129	-1.129
		Vy	-0.068	-0.068	-0.068	-0.068	-0.068
		Vz	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.10	0.10	0.09	0.09	0.08
		Mz	-0.39	-0.38	-0.36	-0.35	-0.34
	TB-450-C1	N	-1.241	-1.241	-1.241	-1.241	-1.241
		Vy	0.607	0.607	0.607	0.607	0.607
		Vz	0.115	0.115	0.115	0.115	0.115
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.66	0.64	0.61	0.59	0.57
		Mz	3.48	3.35	3.23	3.10	2.98
	TB-450-C2	N	2.229	2.229	2.229	2.229	2.229
		Vy	0.626	0.626	0.626	0.626	0.626
		Vz	0.036	0.036	0.036	0.036	0.036
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.21	0.20	0.19	0.18	0.18
		Mz	3.58	3.45	3.33	3.20	3.07
	TB-450-D1	N	1.338	1.338	1.338	1.338	1.338
		Vy	0.716	0.716	0.716	0.716	0.716
		Vz	0.062	0.062	0.062	0.062	0.062
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.35	0.34	0.33	0.32	0.30
		Mz	4.10	3.95	3.80	3.65	3.51
	TB-450-D2	N	-1.053	-1.053	-1.053	-1.053	-1.053
		Vy	0.685	0.685	0.685	0.685	0.685
		Vz	0.117	0.117	0.117	0.117	0.117
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.67	0.65	0.62	0.60	0.58
		Mz	3.92	3.78	3.64	3.50	3.36
	TB-450-E1	N	0.893	0.893	0.893	0.893	0.893

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	-0.589	-0.589	-0.589	-0.589	-0.589
		Vz	-37.886	-37.886	-37.886	-37.886	-37.886
		Mt	0.00	0.00	0.00	0.00	0.00
		My	215.77	223.58	231.39	239.21	247.02
		Mz	-3.37	-3.25	-3.13	-3.01	-2.89
	TB-450-E2	N	-0.216	-0.216	-0.216	-0.216	-0.216
		Vy	-0.839	-0.839	-0.839	-0.839	-0.839
		Vz	51.851	51.851	51.851	51.851	51.851
		Mt	0.00	0.00	0.00	0.00	0.00
		My	296.84	286.15	275.46	264.76	254.07
		Mz	-4.80	-4.63	-4.46	-4.28	-4.11

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N109/N108	Peso próprio	N	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050
		Vy	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087
		Vz	2.265	3.150	4.035	4.477	5.361	6.246	7.131	7.573	8.458
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	35.88	34.72	33.18	32.27	30.16	27.67	24.81	23.23	19.80
		Mz	-0.43	-0.39	-0.35	-0.33	-0.30	-0.26	-0.22	-0.20	-0.17
	Guarda Corpo	N	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.05	26.05
		Mz	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02
	Laje	N	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749
		Vy	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
		Vz	16.414	24.935	33.457	37.718	46.239	54.761	63.282	67.543	76.064
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	319.13	310.27	297.76	290.13	272.14	250.50	225.20	211.18	180.41
		Mz	1.67	1.52	1.37	1.30	1.16	1.01	0.86	0.79	0.65
	Pavimentação	N	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959
		Vy	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201
		Vz	9.631	14.631	19.630	22.129	27.129	32.128	37.127	39.627	44.626
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	179.30	174.10	166.76	162.28	151.73	139.03	124.19	115.97	97.91
		Mz	0.99	0.90	0.81	0.77	0.68	0.60	0.51	0.47	0.38
	Recapeamento	N	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441
		Vy	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
		Vz	4.377	6.650	8.922	10.058	12.331	14.603	16.876	18.012	20.284
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	81.50	79.13	75.80	73.76	68.97	63.19	56.45	52.71	44.50
		Mz	0.44	0.40	0.36	0.34	0.30	0.26	0.23	0.21	0.17
	Vento 0	N	-64.554	-64.554	-64.554	-64.554	-64.554	-64.554	-64.554	-64.554	-64.554
		Vy	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396
		Vz	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.28	6.64	6.01	5.69	5.05	4.41	3.78	3.46	2.82
		Mz	-1.94	-1.77	-1.60	-1.52	-1.35	-1.18	-1.01	-0.92	-0.75
	Vento 180	N	73.906	73.906	73.906	73.906	73.906	73.906	73.906	73.906	73.906
		Vy	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524
		Vz	-1.473	-1.473	-1.473	-1.473	-1.473	-1.473	-1.473	-1.473	-1.473
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.22	-6.58	-5.95	-5.64	-5.01	-4.38	-3.74	-3.43	-2.80
		Mz	2.57	2.34	2.12	2.01	1.78	1.56	1.33	1.22	1.00
	Multidão (Passeio)	N	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.87	14.88	14.88	14.88	14.88	14.89	14.89	14.89	14.90
		Mz	-0.17	-0.15	-0.14	-0.13	-0.12	-0.10	-0.09	-0.08	-0.07
	Multidão - TB450	N	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208
		Vy	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
		Vz	14.018	21.290	28.561	32.197	39.469	46.740	54.012	57.648	64.920
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	241.75	234.19	223.51	217.00	201.64	183.16	161.58	149.61	123.35
		Mz	1.61	1.47	1.33	1.26	1.12	0.98	0.84	0.77	0.63
	TB-450-A1	N	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vy	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.01
		Mz	-0.18	-0.16	-0.15	-0.14	-0.12	-0.11	-0.09	-0.08	-0.07
	TB-450-A2	N	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03	-0.03	-0.02
		Mz	-0.18	-0.17	-0.15	-0.14	-0.13	-0.11	-0.09	-0.09	-0.07
	TB-450-B1	N	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176
		Vy	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vz	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.16	-0.15	-0.13	-0.13	-0.11	-0.10	-0.08	-0.08	-0.06
		Mz	-0.20	-0.18	-0.16	-0.16	-0.14	-0.12	-0.10	-0.09	-0.08
	TB-450-B2	N	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129
		Vy	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.08	0.08	0.07	0.07	0.06	0.05	0.04	0.04	0.03
		Mz	-0.34	-0.31	-0.28	-0.26	-0.23	-0.20	-0.17	-0.16	-0.13
	TB-450-C1	N	-1.241	-1.241	-1.241	-1.241	-1.241	-1.241	-1.241	-1.241	-1.241
		Vy	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607
		Vz	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.57	0.52	0.47	0.44	0.39	0.34	0.29	0.27	0.22
		Mz	2.98	2.72	2.45	2.32	2.06	1.80	1.54	1.41	1.15
	TB-450-C2	N	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229
		Vy	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626
		Vz	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.18	0.16	0.15	0.14	0.12	0.11	0.09	0.08	0.07
		Mz	3.07	2.80	2.53	2.40	2.13	1.86	1.59	1.46	1.19
	TB-450-D1	N	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338
		Vy	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716
		Vz	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.30	0.28	0.25	0.24	0.21	0.18	0.16	0.14	0.12
		Mz	3.51	3.20	2.89	2.74	2.43	2.13	1.82	1.67	1.36
	TB-450-D2	N	-1.053	-1.053	-1.053	-1.053	-1.053	-1.053	-1.053	-1.053	-1.053
		Vy	0.685	0.685	0.685	0.685	0.685	0.685	0.685	0.685	0.685
		Vz	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		My	0.58	0.52	0.47	0.45	0.40	0.35	0.30	0.27	0.22
		Mz	3.36	3.06	2.77	2.62	2.33	2.04	1.74	1.59	1.30
	TB-450-E1	N	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893
		Vy	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589
		Vz	-37.886	-19.707	-1.528	7.562	25.741	43.920	62.099	71.189	89.368
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	247.02	259.36	263.91	263.27	256.13	241.20	218.48	204.20	169.80
		Mz	-2.89	-2.64	-2.38	-2.26	-2.00	-1.75	-1.50	-1.37	-1.12
	TB-450-E2	N	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216
		Vy	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839
		Vz	51.851	51.851	51.851	51.851	51.851	51.851	51.851	51.851	51.851
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	254.07	231.85	209.62	198.51	176.29	154.07	131.85	120.74	98.52
		Mz	-4.11	-3.75	-3.39	-3.21	-2.85	-2.49	-2.13	-1.95	-1.59

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N108/N107	Peso próprio	N	-0.050	-0.050	-0.050
		Vy	-0.087	-0.087	-0.087
		Vz	8.458	8.870	9.283
		Mt	0.00	0.00	0.00
		My	19.80	18.06	16.25
		Mz	-0.17	-0.15	-0.13
	Guarda Corpo	N	0.184	0.184	0.184
		Vy	0.013	0.013	0.013
		Vz	-0.002	7.660	15.321
		Mt	0.00	0.00	0.00
		My	26.05	25.28	22.98
		Mz	0.02	0.02	0.02
	Laje	N	1.749	1.749	1.749
		Vy	0.340	0.340	0.340
		Vz	76.064	80.041	84.018
		Mt	0.00	0.00	0.00
		My	180.41	164.80	148.40
		Mz	0.65	0.58	0.51

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	Pavimentação	N	0.959	0.959	0.959
		Vy	0.201	0.201	0.201
		Vz	44.626	44.626	44.626
		Mt	0.00	0.00	0.00
		My	97.91	88.99	80.06
		Mz	0.38	0.34	0.30
	Recapeamento	N	0.441	0.441	0.441
		Vy	0.089	0.089	0.089
		Vz	20.284	20.284	20.284
		Mt	0.00	0.00	0.00
		My	44.50	40.45	36.39
		Mz	0.17	0.15	0.13
	Vento 0	N	-64.554	-64.554	-64.554
		Vy	-0.396	-0.396	-0.396
		Vz	1.486	1.486	1.486
		Mt	0.00	0.00	0.00
		My	2.82	2.53	2.23
		Mz	-0.75	-0.67	-0.59
	Vento 180	N	73.906	73.906	73.906
		Vy	0.524	0.524	0.524
		Vz	-1.473	-1.473	-1.473
		Mt	0.00	0.00	0.00
		My	-2.80	-2.50	-2.21
		Mz	1.00	0.89	0.79
	Multidão (Passeio)	N	0.159	0.159	0.159
		Vy	-0.035	-0.035	-0.035
		Vz	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00
		My	14.90	14.90	14.90
		Mz	-0.07	-0.06	-0.05
	Multidão - TB450	N	1.208	1.208	1.208
		Vy	0.329	0.329	0.329
		Vz	64.920	64.920	64.920
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	123.35	110.36	97.38
		Mz	0.63	0.56	0.49
	TB-450-A1	N	0.061	0.061	0.061
		Vy	-0.036	-0.036	-0.036
		Vz	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01
		Mz	-0.07	-0.06	-0.05
	TB-450-A2	N	0.289	0.289	0.289
		Vy	-0.037	-0.037	-0.037
		Vz	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02
		Mz	-0.07	-0.06	-0.06
	TB-450-B1	N	1.176	1.176	1.176
		Vy	-0.041	-0.041	-0.041
		Vz	-0.033	-0.033	-0.033
		Mt	0.00	0.00	0.00
		My	-0.06	-0.06	-0.05
		Mz	-0.08	-0.07	-0.06
	TB-450-B2	N	-1.129	-1.129	-1.129
		Vy	-0.068	-0.068	-0.068
		Vz	0.017	0.017	0.017
		Mt	0.00	0.00	0.00
		My	0.03	0.03	0.03
		Mz	-0.13	-0.12	-0.10
	TB-450-C1	N	-1.241	-1.241	-1.241
		Vy	0.607	0.607	0.607
		Vz	0.115	0.115	0.115
		Mt	0.00	0.00	0.00
		My	0.22	0.20	0.17
		Mz	1.15	1.03	0.91
	TB-450-C2	N	2.229	2.229	2.229
		Vy	0.626	0.626	0.626

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.036	0.036	0.036
		Mt	0.00	0.00	0.00
		My	0.07	0.06	0.05
		Mz	1.19	1.06	0.94
	TB-450-D1	N	1.338	1.338	1.338
		Vy	0.716	0.716	0.716
		Vz	0.062	0.062	0.062
		Mt	0.00	0.00	0.00
		My	0.12	0.10	0.09
		Mz	1.36	1.22	1.07
	TB-450-D2	N	-1.053	-1.053	-1.053
		Vy	0.685	0.685	0.685
		Vz	0.117	0.117	0.117
		Mt	0.00	0.00	0.00
		My	0.22	0.20	0.18
		Mz	1.30	1.16	1.03
	TB-450-E1	N	0.893	0.893	0.893
		Vy	-0.589	-0.589	-0.589
		Vz	89.368	89.368	89.368
		Mt	0.00	0.00	0.00
		My	169.80	151.93	134.05
		Mz	-1.12	-1.00	-0.88
	TB-450-E2	N	-0.216	-0.216	-0.216
		Vy	-0.839	-0.839	-0.839
		Vz	51.851	51.851	51.851
		Mt	0.00	0.00	0.00
		My	98.52	88.15	77.78
		Mz	-1.59	-1.43	-1.26

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N107/N39	Peso próprio	N	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050
		Vy	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	9.283	9.670	10.057	10.444	10.831	11.218	11.605	11.992	12.379
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.25	14.47	12.62	10.70	8.70	6.64	4.50	2.28	0.00
		Mz	-0.13	-0.11	-0.10	-0.08	-0.07	-0.05	-0.03	-0.02	0.00
	Guarda Corpo	N	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	15.321	15.321	15.321	15.321	15.321	15.321	15.321	15.321	15.321
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.98	20.11	17.24	14.36	11.49	8.62	5.75	2.87	0.00
		Mz	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	Laje	N	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749
		Vy	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
		Vz	84.018	87.746	91.474	95.202	98.930	102.658	106.386	110.115	113.843
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	148.40	132.29	115.49	97.99	79.79	60.89	41.29	21.00	0.00
		Mz	0.51	0.45	0.38	0.32	0.25	0.19	0.13	0.06	0.00
	Pavimentação	N	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959
		Vy	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201
		Vz	44.626	46.813	49.000	51.188	53.375	55.562	57.749	59.936	62.123
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	80.06	71.49	62.51	53.11	43.31	33.10	22.48	11.44	0.00
		Mz	0.30	0.26	0.23	0.19	0.15	0.11	0.08	0.04	0.00
	Recapeamento	N	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441
		Vy	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
		Vz	20.284	21.278	22.272	23.267	24.261	25.255	26.249	27.243	28.237
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	36.39	32.49	28.41	24.14	19.69	15.04	10.22	5.20	0.00
		Mz	0.13	0.12	0.10	0.08	0.07	0.05	0.03	0.02	0.00
	Vento 0	N	-64.554	-64.554	-64.554	-64.554	-64.554	-64.554	-64.554	-64.554	-64.554
		Vy	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396	-0.396
		Vz	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.23	1.95	1.67	1.39	1.11	0.84	0.56	0.28	0.00
		Mz	-0.59	-0.52	-0.45	-0.37	-0.30	-0.22	-0.15	-0.07	0.00
	Vento 180	N	73.906	73.906	73.906	73.906	73.906	73.906	73.906	73.906	73.906
		Vy	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524	0.524
		Vz	-1.473	-1.473	-1.473	-1.473	-1.473	-1.473	-1.473	-1.473	-1.473
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.21	-1.93	-1.66	-1.38	-1.10	-0.83	-0.55	-0.28	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mz	0.79	0.69	0.59	0.49	0.39	0.29	0.20	0.10	0.00
	Multidão (Passeio)	N	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-0.008	2.477	4.963	7.448	9.934	12.419	14.904	17.390	19.875
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.90	14.67	13.97	12.81	11.18	9.08	6.52	3.49	0.00
		Mz	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
	Multidão - TB450	N	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208
		Vy	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
		Vz	64.920	64.920	64.920	64.920	64.920	64.920	64.920	64.920	64.920
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	97.38	85.21	73.03	60.86	48.69	36.52	24.34	12.17	0.00
		Mz	0.49	0.43	0.37	0.31	0.25	0.19	0.12	0.06	0.00
	TB-450-A1	N	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vy	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
	TB-450-A2	N	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
	TB-450-B1	N	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176
		Vy	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vz	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.06	-0.05	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
	TB-450-B2	N	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129
		Vy	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00
		Mz	-0.10	-0.09	-0.08	-0.06	-0.05	-0.04	-0.03	-0.01	0.00
	TB-450-C1	N	-1.241	-1.241	-1.241	-1.241	-1.241	-1.241	-1.241	-1.241	-1.241
		Vy	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.17	0.15	0.13	0.11	0.09	0.06	0.04	0.02	0.00
		Mz	0.91	0.80	0.68	0.57	0.46	0.34	0.23	0.11	0.00
	TB-450-C2	N	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229	2.229
		Vy	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626
		Vz	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.00
		Mz	0.94	0.82	0.70	0.59	0.47	0.35	0.23	0.12	0.00
	TB-450-D1	N	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338
		Vy	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716
		Vz	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.09	0.08	0.07	0.06	0.05	0.03	0.02	0.01	0.00
		Mz	1.07	0.94	0.81	0.67	0.54	0.40	0.27	0.13	0.00
	TB-450-D2	N	-1.053	-1.053	-1.053	-1.053	-1.053	-1.053	-1.053	-1.053	-1.053
		Vy	0.685	0.685	0.685	0.685	0.685	0.685	0.685	0.685	0.685
		Vz	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.18	0.15	0.13	0.11	0.09	0.07	0.04	0.02	0.00
		Mz	1.03	0.90	0.77	0.64	0.51	0.39	0.26	0.13	0.00
	TB-450-E1	N	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893
		Vy	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589	-0.589
		Vz	89.368	89.368	89.368	89.368	89.368	89.368	89.368	89.368	89.368
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	134.05	117.30	100.54	83.78	67.03	50.27	33.51	16.76	0.00
		Mz	-0.88	-0.77	-0.66	-0.55	-0.44	-0.33	-0.22	-0.11	0.00
	TB-450-E2	N	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216	-0.216
		Vy	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839
		Vz	51.851	51.851	51.851	51.851	51.851	51.851	51.851	51.851	51.851
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	77.78	68.05	58.33	48.61	38.89	29.17	19.44	9.72	0.00
		Mz	-1.26	-1.10	-0.94	-0.79	-0.63	-0.47	-0.31	-0.16	0.00

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N6/N98	Peso próprio	N	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vy	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
		Vz	-11.915	-11.528	-11.141	-10.754	-10.367	-9.980	-9.593	-9.206	-8.819
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.20	4.32	6.38	8.36	10.26	12.10	13.86	15.55
		Mz	0.00	-0.04	-0.08	-0.13	-0.17	-0.21	-0.25	-0.29	-0.33
	Guarda Corpo	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-7.662	-7.662	-7.662	-7.662	-7.662	-7.662	-7.662	-7.662	-7.662
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	1.44	2.87	4.31	5.75	7.18	8.62	10.06	11.49
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-56.916	-55.052	-53.188	-51.324	-49.460	-47.596	-45.732	-43.868	-42.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	10.50	20.64	30.44	39.89	48.99	57.74	66.14	74.19
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-31.058	-29.964	-28.871	-27.777	-26.684	-25.590	-24.496	-23.403	-22.309
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.72	11.24	16.55	21.65	26.55	31.25	35.74	40.03
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-14.117	-13.620	-13.123	-12.626	-12.129	-11.632	-11.135	-10.638	-10.141
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.60	5.11	7.52	9.84	12.07	14.20	16.25	18.19
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-9.942	-8.699	-7.456	-6.214	-4.971	-3.728	-2.485	-1.243	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	1.75	3.26	4.54	5.59	6.41	6.99	7.34	7.46
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-32.450	-32.450	-32.450	-32.450	-32.450	-32.450	-32.450	-32.450	-32.450
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	6.08	12.17	18.25	24.34	30.42	36.51	42.59	48.67
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-11.808	-11.808	-11.808	-11.808	-11.808	-11.808	-11.808	-11.808	-11.808
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	2.21	4.43	6.64	8.86	11.07	13.28	15.50	17.71
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-61.508	-61.508	-61.508	-61.508	-61.508	-61.508	-61.508	-61.508	-61.508
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		My	0.00	11.53	23.07	34.60	46.13	57.66	69.20	80.73	92.26
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N98/N99	Peso próprio	N	0.059	0.059	0.059
		Vy	0.222	0.222	0.222
		Vz	-8.819	-8.406	-7.993
		Mt	0.00	0.00	0.00
		My	15.55	17.27	18.91
		Mz	-0.33	-0.38	-0.42
	Guarda Corpo	N	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000
		Vz	-7.662	-3.831	0.000
		Mt	0.00	0.00	0.00
		My	11.49	12.64	13.02
		Mz	0.00	0.00	0.00
	Laje	N	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000
		Vz	-42.004	-40.015	-38.027
		Mt	0.00	0.00	0.00
		My	74.19	82.39	90.20
		Mz	0.00	0.00	0.00
	Pavimentação	N	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000
		Vz	-22.309	-22.309	-22.309
		Mt	0.00	0.00	0.00
		My	40.03	44.49	48.95
		Mz	0.00	0.00	0.00
	Recapeamento	N	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000
		Vz	-10.141	-10.141	-10.141
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		My	18.19	20.22	22.25
		Mz	0.00	0.00	0.00
	Vento 0	N	1.667	1.667	1.667
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	Vento 180	N	1.605	1.605	1.605
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.004	-0.004	-0.004
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	7.46	7.46	7.46
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000
		Vz	-32.450	-32.450	-32.450
		Mt	0.00	0.00	0.00
		My	48.67	55.16	61.65
		Mz	0.00	0.00	0.00
	TB-450-A1	N	0.001	0.001	0.001
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-B1	N	0.002	0.002	0.002
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-B2	N	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-C2	N	0.001	0.001	0.001
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-D1	N	0.014	0.014	0.014
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
	TB-450-D2	N	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-E1	N	0.413	0.413	0.413
		Vy	0.000	0.000	0.000
		Vz	-11.808	-11.808	-11.808
		Mt	0.00	0.00	0.00
		My	17.71	20.07	22.44
		Mz	0.00	0.00	0.00
	TB-450-E2	N	-0.945	-0.945	-0.945
		Vy	0.000	0.000	0.000
		Vz	-61.508	-61.508	-61.508
		Mt	0.00	0.00	0.00
		My	92.26	104.56	116.87
		Mz	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N99/N100	Peso próprio	N	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
		Vy	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
		Vz	-7.993	-7.108	-6.224	-5.782	-4.897	-4.012	-3.128	-2.685	-1.801
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.91	22.15	25.01	26.29	28.58	30.49	32.02	32.64	33.60
		Mz	-0.42	-0.52	-0.61	-0.66	-0.76	-0.85	-0.95	-0.99	-1.09
	Guarda Corpo	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.02	13.02	13.02	13.02	13.02	13.02	13.02	13.02	13.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	-38.027	-33.766	-29.506	-27.375	-23.114	-18.854	-14.593	-12.463	-8.202
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	90.20	105.58	119.14	125.23	136.05	145.05	152.21	155.11	159.54
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-22.309	-19.810	-17.310	-16.060	-13.560	-11.061	-8.561	-7.311	-4.812
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.95	57.97	65.93	69.50	75.85	81.13	85.33	87.03	89.63
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-10.141	-9.004	-7.868	-7.300	-6.164	-5.028	-3.891	-3.323	-2.187
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.25	26.35	29.97	31.59	34.48	36.88	38.79	39.56	40.74
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-32.450	-28.814	-25.178	-23.360	-19.724	-16.089	-12.453	-10.635	-6.999
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	61.65	74.78	86.35	91.55	100.79	108.46	114.58	117.05	120.83

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-11.808	-11.808	-11.808	-11.808	-11.808	-11.808	-11.808	-11.808	-11.808
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.44	27.50	32.56	35.09	40.15	45.21	50.27	52.80	57.86
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-61.508	-49.010	-36.512	-30.263	-17.765	-5.267	7.231	13.481	25.979
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	116.87	140.55	158.87	166.03	176.32	181.26	180.84	178.62	170.16
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N100/N87	Peso próprio	N	0.059	0.059	0.059	0.059	0.059
		Vy	0.222	0.222	0.222	0.222	0.222
		Vz	-1.801	-1.375	-0.949	-0.524	-0.098
		Mt	0.00	0.00	0.00	0.00	0.00
		My	33.60	33.93	34.17	34.32	34.39
		Mz	-1.09	-1.13	-1.18	-1.23	-1.27
	Guarda Corpo	N	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	13.02	13.02	13.02	13.02	13.02

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.024	-0.024	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-8.202	-6.151	-4.101	-2.050	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	159.54	161.02	162.08	162.71	162.92
		Mz	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-4.812	-3.609	-2.406	-1.203	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	89.63	90.50	91.12	91.49	91.62
		Mz	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-2.187	-1.640	-1.094	-0.547	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	40.74	41.14	41.42	41.59	41.64
		Mz	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.667	1.667	1.667	1.667	1.667
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.605	1.605	1.605	1.605	1.605
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mt	0.00	0.00	0.00	0.00	0.00
		My	7.46	7.46	7.46	7.46	7.46
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-6.999	-5.249	-3.499	-1.750	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	120.83	122.09	122.99	123.53	123.71
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.002	0.002	0.002	0.002	0.002
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015	-0.015	-0.015

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.014	0.014	0.014	0.014	0.014
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.413	0.413	0.413	0.413	0.413
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-11.808	-11.808	-11.808	-11.808	-11.808
		Mt	0.00	0.00	0.00	0.00	0.00
		My	57.86	60.30	62.73	65.17	67.60
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.945	-0.945	-0.945	-0.945	-0.945
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	25.979	25.979	25.979	25.979	25.979
		Mt	0.00	0.00	0.00	0.00	0.00
		My	170.16	164.80	159.44	154.09	148.73

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Mz	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N87/N103	Peso próprio	N	-0.070	-0.070	-0.070	-0.070	-0.070
		Vy	-0.227	-0.227	-0.227	-0.227	-0.227
		Vz	0.100	0.526	0.951	1.377	1.803
		Mt	0.00	0.00	0.00	0.00	0.00
		My	34.40	34.33	34.18	33.94	33.61
		Mz	-1.30	-1.25	-1.20	-1.16	-1.11
	Guarda Corpo	N	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	13.02	13.02	13.02	13.02	13.02
		Mz	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.024	-0.024	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	2.050	4.101	6.151	8.202
		Mt	0.00	0.00	0.00	0.00	0.00
		My	162.92	162.71	162.08	161.02	159.54
		Mz	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	1.203	2.406	3.609	4.812
		Mt	0.00	0.00	0.00	0.00	0.00
		My	91.62	91.49	91.12	90.50	89.63
		Mz	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.547	1.094	1.640	2.187
		Mt	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		My	41.64	41.59	41.42	41.14	40.74
		Mz	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.667	1.667	1.667	1.667	1.667
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.605	1.605	1.605	1.605	1.605
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	7.46	7.46	7.46	7.46	7.46
		Mz	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	1.750	3.499	5.249	6.999
		Mt	0.00	0.00	0.00	0.00	0.00
		My	123.71	123.53	122.99	122.09	120.83
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.002	0.002	0.002	0.002	0.002
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.014	0.014	0.014	0.014	0.014
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações							
Barra	Hipótese	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
	TB-450-D2	N	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.413	0.413	0.413	0.413	0.413
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	-11.808	-11.808	-11.808	-11.808	-11.808
		Mt	0.00	0.00	0.00	0.00	0.00
		My	67.60	70.04	72.47	74.91	77.35
		Mz	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.945	-0.945	-0.945	-0.945	-0.945
		Vy	0.000	0.000	0.000	0.000	0.000
		Vz	25.979	25.979	25.979	25.979	25.979
		Mt	0.00	0.00	0.00	0.00	0.00
		My	148.73	143.37	138.01	132.65	127.30
		Mz	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N103/N102	Peso próprio	N	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070
		Vy	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227
		Vz	1.803	2.687	3.572	4.014	4.899	5.784	6.668	7.110	7.995
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	33.61	32.65	31.31	30.50	28.59	26.30	23.63	22.15	18.92
		Mz	-1.11	-1.01	-0.92	-0.87	-0.77	-0.67	-0.58	-0.53	-0.43
	Guarda Corpo	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.02	13.02	13.02	13.02	13.02	13.02	13.02	13.02	13.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	8.202	12.463	16.723	18.854	23.114	27.375	31.636	33.766	38.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	159.54	155.11	148.86	145.05	136.05	125.23	112.59	105.58	90.20
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	4.812	7.311	9.811	11.061	13.560	16.060	18.560	19.810	22.309
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	89.63	87.03	83.36	81.13	75.85	69.50	62.09	57.97	48.95
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	2.187	3.323	4.460	5.028	6.164	7.300	8.436	9.004	10.141
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	40.74	39.56	37.89	36.88	34.48	31.59	28.22	26.35	22.25
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	6.999	10.635	14.271	16.089	19.724	23.360	26.996	28.814	32.450
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	120.83	117.05	111.71	108.46	100.79	91.55	80.76	74.78	61.65

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-11.808	-6.128	-0.447	2.394	8.075	13.756	19.437	22.277	27.958
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	77.35	81.19	82.60	82.39	80.15	75.47	68.36	63.89	53.12
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	25.979	25.979	25.979	25.979	25.979	25.979	25.979	25.979	25.979
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	127.30	116.16	105.03	99.46	88.33	77.19	66.06	60.49	49.36
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N102/N101	Peso próprio	N	-0.070	-0.070	-0.070
		Vy	-0.227	-0.227	-0.227
		Vz	7.995	8.408	8.821
		Mt	0.00	0.00	0.00
		My	18.92	17.28	15.55
		Mz	-0.43	-0.39	-0.34
	Guarda Corpo	N	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000
		Vz	0.000	3.831	7.662
		Mt	0.00	0.00	0.00
		My	13.02	12.64	11.49

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mz	0.00	0.00	0.00
	Laje	N	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000
		Vz	38.027	40.015	42.004
		Mt	0.00	0.00	0.00
		My	90.20	82.39	74.19
		Mz	0.00	0.00	0.00
	Pavimentação	N	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000
		Vz	22.309	22.309	22.309
		Mt	0.00	0.00	0.00
		My	48.95	44.49	40.03
		Mz	0.00	0.00	0.00
	Recapeamento	N	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000
		Vz	10.141	10.141	10.141
		Mt	0.00	0.00	0.00
		My	22.25	20.22	18.19
		Mz	0.00	0.00	0.00
	Vento 0	N	1.667	1.667	1.667
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	Vento 180	N	1.605	1.605	1.605
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.004	-0.004	-0.004
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mt	0.00	0.00	0.00
		My	7.46	7.46	7.46
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000
		Vz	32.450	32.450	32.450
		Mt	0.00	0.00	0.00
		My	61.65	55.16	48.67
		Mz	0.00	0.00	0.00
	TB-450-A1	N	0.001	0.001	0.001
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-B1	N	0.002	0.002	0.002
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-B2	N	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-C2	N	0.001	0.001	0.001
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-D1	N	0.014	0.014	0.014
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-D2	N	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000
		Vz	0.000	0.000	0.000
		Mt	0.00	0.00	0.00
		My	0.00	0.00	0.00
		Mz	0.00	0.00	0.00
	TB-450-E1	N	0.413	0.413	0.413
		Vy	0.000	0.000	0.000
		Vz	27.958	27.958	27.958
		Mt	0.00	0.00	0.00
		My	53.12	47.53	41.94
		Mz	0.00	0.00	0.00
	TB-450-E2	N	-0.945	-0.945	-0.945
		Vy	0.000	0.000	0.000
		Vz	25.979	25.979	25.979
		Mt	0.00	0.00	0.00
		My	49.36	44.16	38.97

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		Mz	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N101/N13	Peso próprio	N	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070	-0.070
		Vy	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227
		Vz	8.821	9.208	9.595	9.982	10.369	10.756	11.143	11.530	11.917
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.55	13.86	12.10	10.26	8.36	6.38	4.32	2.20	0.00
		Mz	-0.34	-0.30	-0.26	-0.21	-0.17	-0.13	-0.09	-0.04	0.00
	Guarda Corpo	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	7.662	7.662	7.662	7.662	7.662	7.662	7.662	7.662	7.662
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.49	10.06	8.62	7.18	5.75	4.31	2.87	1.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	42.004	43.868	45.732	47.596	49.460	51.324	53.188	55.052	56.916
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	74.19	66.14	57.74	48.99	39.89	30.44	20.64	10.50	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	22.309	23.403	24.496	25.590	26.684	27.777	28.871	29.964	31.058
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	40.03	35.74	31.25	26.55	21.65	16.55	11.24	5.72	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	10.141	10.638	11.135	11.632	12.129	12.626	13.123	13.620	14.117
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.19	16.25	14.20	12.07	9.84	7.52	5.11	2.60	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	1.243	2.485	3.728	4.971	6.214	7.456	8.699	9.942
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.46	7.34	6.99	6.41	5.59	4.54	3.26	1.75	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	32.450	32.450	32.450	32.450	32.450	32.450	32.450	32.450	32.450
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.67	42.59	36.51	30.42	24.34	18.25	12.17	6.08	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
	TB-450-B2	N	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	27.958	27.958	27.958	27.958	27.958	27.958	27.958	27.958	27.958
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	41.94	36.70	31.45	26.21	20.97	15.73	10.48	5.24	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945	-0.945
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	25.979	25.979	25.979	25.979	25.979	25.979	25.979	25.979	25.979

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	38.97	34.10	29.23	24.36	19.48	14.61	9.74	4.87	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N77/N78	Peso próprio	N	0.498	0.505	0.511	0.514	0.520	0.527	0.533	0.536	0.543
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
	Vento 0	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N78/N79	Peso próprio	N	1.089	1.095	1.102	1.105	1.111	1.118	1.124	1.127	1.134
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.147	-0.147	-0.147	-0.147	-0.147	-0.147	-0.147	-0.147	-0.147
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-2.564	-2.564	-2.564	-2.564	-2.564	-2.564	-2.564	-2.564	-2.564
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-1.486	-1.486	-1.486	-1.486	-1.486	-1.486	-1.486	-1.486	-1.486
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.664	-0.664	-0.664	-0.664	-0.664	-0.664	-0.664	-0.664	-0.664
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-6.682	-6.682	-6.682	-6.682	-6.682	-6.682	-6.682	-6.682	-6.682
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.280	-2.280	-2.280	-2.280	-2.280	-2.280	-2.280	-2.280	-2.280
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	2.981	2.981	2.981	2.981	2.981	2.981	2.981	2.981	2.981
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
	TB-450-A2	N	2.924	2.924	2.924	2.924	2.924	2.924	2.924	2.924	2.924
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-3.406	-3.406	-3.406	-3.406	-3.406	-3.406	-3.406	-3.406	-3.406
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-3.197	-3.197	-3.197	-3.197	-3.197	-3.197	-3.197	-3.197	-3.197
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-2.743	-2.743	-2.743	-2.743	-2.743	-2.743	-2.743	-2.743	-2.743
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-3.148	-3.148	-3.148	-3.148	-3.148	-3.148	-3.148	-3.148	-3.148
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N79/N80	Peso próprio	N	1.399	1.406	1.412	1.415	1.422	1.428	1.434	1.438	1.444
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.378	-0.378	-0.378	-0.378	-0.378	-0.378	-0.378	-0.378	-0.378
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-5.803	-5.803	-5.803	-5.803	-5.803	-5.803	-5.803	-5.803	-5.803
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-3.346	-3.346	-3.346	-3.346	-3.346	-3.346	-3.346	-3.346	-3.346
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.497	-1.497	-1.497	-1.497	-1.497	-1.497	-1.497	-1.497	-1.497
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-8.976	-8.976	-8.976	-8.976	-8.976	-8.976	-8.976	-8.976	-8.976
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	7.672	7.672	7.672	7.672	7.672	7.672	7.672	7.672	7.672
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-4.975	-4.975	-4.975	-4.975	-4.975	-4.975	-4.975	-4.975	-4.975
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	4.198	4.198	4.198	4.198	4.198	4.198	4.198	4.198	4.198
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-5.244	-5.244	-5.244	-5.244	-5.244	-5.244	-5.244	-5.244	-5.244
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-4.958	-4.958	-4.958	-4.958	-4.958	-4.958	-4.958	-4.958	-4.958
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-5.865	-5.865	-5.865	-5.865	-5.865	-5.865	-5.865	-5.865	-5.865
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-6.484	-6.484	-6.484	-6.484	-6.484	-6.484	-6.484	-6.484	-6.484
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
	TB-450-D1	N	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N80/N81	Peso próprio	N	2.055	2.062	2.068	2.071	2.077	2.084	2.090	2.093	2.100
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.570	-0.570	-0.570	-0.570	-0.570	-0.570	-0.570	-0.570	-0.570
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-8.417	-8.417	-8.417	-8.417	-8.417	-8.417	-8.417	-8.417	-8.417
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-4.842	-4.842	-4.842	-4.842	-4.842	-4.842	-4.842	-4.842	-4.842
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-2.168	-2.168	-2.168	-2.168	-2.168	-2.168	-2.168	-2.168	-2.168
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-12.190	-12.190	-12.190	-12.190	-12.190	-12.190	-12.190	-12.190	-12.190
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	10.605	10.605	10.605	10.605	10.605	10.605	10.605	10.605	10.605
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.127	-7.127	-7.127	-7.127	-7.127	-7.127	-7.127	-7.127	-7.127
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	3.821	3.821	3.821	3.821	3.821	3.821	3.821	3.821	3.821
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	3.794	3.794	3.794	3.794	3.794	3.794	3.794	3.794	3.794
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-5.622	-5.622	-5.622	-5.622	-5.622	-5.622	-5.622	-5.622	-5.622
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-5.352	-5.352	-5.352	-5.352	-5.352	-5.352	-5.352	-5.352	-5.352
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-8.078	-8.078	-8.078	-8.078	-8.078	-8.078	-8.078	-8.078	-8.078
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-8.742	-8.742	-8.742	-8.742	-8.742	-8.742	-8.742	-8.742	-8.742
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.910	0.910	0.910	0.910	0.910	0.910	0.910	0.910	0.910
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N84/N83	Peso próprio	N	2.313	2.322	2.331	2.335	2.344	2.353	2.362	2.366	2.375
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-5.691	-5.691	-5.691	-5.691	-5.691	-5.691	-5.691	-5.691	-5.691
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.475	-1.475	-1.475	-1.475	-1.475	-1.475	-1.475	-1.475	-1.475
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	10.998	10.998	10.998	10.998	10.998	10.998	10.998	10.998	10.998
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-12.491	-12.491	-12.491	-12.491	-12.491	-12.491	-12.491	-12.491	-12.491
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-5.089	-5.089	-5.089	-5.089	-5.089	-5.089	-5.089	-5.089	-5.089
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.769	0.769	0.769	0.769	0.769	0.769	0.769	0.769	0.769
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-8.261	-8.261	-8.261	-8.261	-8.261	-8.261	-8.261	-8.261	-8.261
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-8.847	-8.847	-8.847	-8.847	-8.847	-8.847	-8.847	-8.847	-8.847
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-4.234	-4.234	-4.234	-4.234	-4.234	-4.234	-4.234	-4.234	-4.234
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-3.602	-3.602	-3.602	-3.602	-3.602	-3.602	-3.602	-3.602	-3.602
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	4.250	4.250	4.250	4.250	4.250	4.250	4.250	4.250	4.250
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	5.321	5.321	5.321	5.321	5.321	5.321	5.321	5.321	5.321
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N85/N84	Peso próprio	N	1.559	1.568	1.577	1.581	1.590	1.599	1.608	1.612	1.621
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228	-0.228
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-4.171	-4.171	-4.171	-4.171	-4.171	-4.171	-4.171	-4.171	-4.171
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.438	-2.438	-2.438	-2.438	-2.438	-2.438	-2.438	-2.438	-2.438
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.082	-1.082	-1.082	-1.082	-1.082	-1.082	-1.082	-1.082	-1.082
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	7.572	7.572	7.572	7.572	7.572	7.572	7.572	7.572	7.572
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-8.849	-8.849	-8.849	-8.849	-8.849	-8.849	-8.849	-8.849	-8.849
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-3.757	-3.757	-3.757	-3.757	-3.757	-3.757	-3.757	-3.757	-3.757
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.653	0.653	0.653	0.653	0.653	0.653	0.653	0.653	0.653
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-6.226	-6.226	-6.226	-6.226	-6.226	-6.226	-6.226	-6.226	-6.226
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-6.594	-6.594	-6.594	-6.594	-6.594	-6.594	-6.594	-6.594	-6.594
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-4.964	-4.964	-4.964	-4.964	-4.964	-4.964	-4.964	-4.964	-4.964
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-4.533	-4.533	-4.533	-4.533	-4.533	-4.533	-4.533	-4.533	-4.533
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	4.714	4.714	4.714	4.714	4.714	4.714	4.714	4.714	4.714
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	5.917	5.917	5.917	5.917	5.917	5.917	5.917	5.917	5.917
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N86/N85	Peso próprio	N	1.139	1.148	1.153	1.162	1.170	1.179	1.188	1.192	1.201
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.145	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-1.769	-1.769	-1.769	-1.769	-1.769	-1.769	-1.769	-1.769	-1.769
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-1.043	-1.043	-1.043	-1.043	-1.043	-1.043	-1.043	-1.043	-1.043
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462	-0.462

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	5.889	5.889	5.889	5.889	5.889	5.889	5.889	5.889	5.889
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-6.530	-6.530	-6.530	-6.530	-6.530	-6.530	-6.530	-6.530	-6.530
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-1.686	-1.686	-1.686	-1.686	-1.686	-1.686	-1.686	-1.686	-1.686
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-2.912	-2.912	-2.912	-2.912	-2.912	-2.912	-2.912	-2.912	-2.912
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-3.213	-3.213	-3.213	-3.213	-3.213	-3.213	-3.213	-3.213	-3.213
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-3.621	-3.621	-3.621	-3.621	-3.621	-3.621	-3.621	-3.621	-3.621
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317	-3.317
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	2.859	2.859	2.859	2.859	2.859	2.859	2.859	2.859	2.859
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	4.156	4.156	4.156	4.156	4.156	4.156	4.156	4.156	4.156
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N87/N86	Peso próprio	N	0.440	0.449	0.453	0.462	0.471	0.480	0.488	0.493	0.502
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.145	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
	Pavimentação	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N40/N88	Peso próprio	N	4.381	4.381	4.381	4.381	4.381	4.381	4.381	4.381	4.381
		Vy	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444
		Vz	-7.153	-6.336	-5.518	-4.700	-3.882	-3.065	-2.247	-1.429	-0.611
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.83	9.07	12.72	15.79	18.28	20.18	21.50	22.23
		Mz	0.00	0.32	0.64	0.95	1.27	1.59	1.91	2.23	2.54
	Guarda Corpo	N	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.084
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
	Laje	N	8.048	8.048	8.048	8.048	8.048	8.048	8.048	8.048	8.048
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.09
	Pavimentação	N	4.410	4.410	4.410	4.410	4.410	4.410	4.410	4.410	4.410
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	Recapeamento	N	1.997	1.997	1.997	1.997	1.997	1.997	1.997	1.997	1.997
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
	Vento 0	N	11.163	11.163	11.163	11.163	11.163	11.163	11.163	11.163	11.163
		Vy	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
		Mz	0.00	-0.14	-0.28	-0.42	-0.56	-0.70	-0.84	-0.98	-1.12
	Vento 180	N	-5.209	-5.209	-5.209	-5.209	-5.209	-5.209	-5.209	-5.209	-5.209
		Vy	-0.212	-0.212	-0.212	-0.212	-0.212	-0.212	-0.212	-0.212	-0.212
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	0.15	0.30	0.45	0.61	0.76	0.91	1.06	1.21
	Multidão (Passeio)	N	1.406	1.406	1.406	1.406	1.406	1.406	1.406	1.406	1.406
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	Multidão - TB450	N	4.590	4.590	4.590	4.590	4.590	4.590	4.590	4.590	4.590
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	TB-450-A1	N	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050	1.050
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
	TB-450-A2	N	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.925	1.925	1.925	1.925	1.925	1.925	1.925	1.925	1.925
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	TB-450-B2	N	1.931	1.931	1.931	1.931	1.931	1.931	1.931	1.931	1.931
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	1.805	1.805	1.805	1.805	1.805	1.805	1.805	1.805	1.805
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
	TB-450-C2	N	1.784	1.784	1.784	1.784	1.784	1.784	1.784	1.784	1.784

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		Mz	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
	TB-450-D1	N	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
	TB-450-D2	N	1.130	1.130	1.130	1.130	1.130	1.130	1.130	1.130	1.130
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
	TB-450-E1	N	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	TB-450-E2	N	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N88/N41	Peso próprio	N	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403
		Vy	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374
		Vz	0.599	1.417	2.234	3.052	3.870	4.688	5.505	6.323	7.141
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		My	22.16	21.43	20.13	18.24	15.76	12.70	9.05	4.82	0.00
		Mz	2.14	1.87	1.60	1.34	1.07	0.80	0.53	0.27	0.00
	Guarda Corpo	N	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	Laje	N	6.792	6.792	6.792	6.792	6.792	6.792	6.792	6.792	6.792
		Vy	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	0.34	0.29	0.25	0.21	0.17	0.13	0.08	0.04	0.00
	Pavimentação	N	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	0.18	0.16	0.14	0.12	0.09	0.07	0.05	0.02	0.00
	Recapeamento	N	1.685	1.685	1.685	1.685	1.685	1.685	1.685	1.685	1.685
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	Vento 0	N	-2.993	-2.993	-2.993	-2.993	-2.993	-2.993	-2.993	-2.993	-2.993
		Vy	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299	0.299
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	1.71	1.50	1.29	1.07	0.86	0.64	0.43	0.21	0.00
	Vento 180	N	9.081	9.081	9.081	9.081	9.081	9.081	9.081	9.081	9.081
		Vy	-0.288	-0.288	-0.288	-0.288	-0.288	-0.288	-0.288	-0.288	-0.288
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	-1.65	-1.44	-1.23	-1.03	-0.82	-0.62	-0.41	-0.21	0.00
	Multidão (Passeio)	N	1.190	1.190	1.190	1.190	1.190	1.190	1.190	1.190	1.190
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00
	Multidão - TB450	N	3.869	3.869	3.869	3.869	3.869	3.869	3.869	3.869	3.869
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	0.19	0.17	0.14	0.12	0.10	0.07	0.05	0.02	0.00
	TB-450-A1	N	1.170	1.170	1.170	1.170	1.170	1.170	1.170	1.170	1.170
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.590	1.590	1.590	1.590	1.590	1.590	1.590	1.590	1.590
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-B2	N	1.515	1.515	1.515	1.515	1.515	1.515	1.515	1.515	1.515
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	TB-450-C1	N	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.10	0.08	0.07	0.06	0.05	0.04	0.02	0.01	0.00
	TB-450-C2	N	1.428	1.428	1.428	1.428	1.428	1.428	1.428	1.428	1.428
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.09	0.08	0.07	0.06	0.05	0.04	0.02	0.01	0.00
	TB-450-D1	N	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871	0.871
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-D2	N	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00
	TB-450-E1	N	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	TB-450-E2	N	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
N43/N89	Peso próprio	N	12.478	12.478	12.478	12.478	12.478	12.478	12.478	12.478	12.478
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	-7.829	-7.011	-6.193	-5.375	-4.558	-3.740	-2.922	-2.104	-1.287
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.31	10.03	14.17	17.73	20.70	23.08	24.88	26.09
		Mz	0.00	-0.01	-0.03	-0.04	-0.05	-0.07	-0.08	-0.10	-0.11
	Guarda Corpo	N	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05
	Laje	N	7.347	7.347	7.347	7.347	7.347	7.347	7.347	7.347	7.347
		Vy	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03
		Mz	0.00	-0.05	-0.10	-0.14	-0.19	-0.24	-0.29	-0.34	-0.39
	Pavimentação	N	4.026	4.026	4.026	4.026	4.026	4.026	4.026	4.026	4.026
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	-0.03	-0.05	-0.08	-0.11	-0.13	-0.16	-0.19	-0.21
	Recapeamento	N	1.823	1.823	1.823	1.823	1.823	1.823	1.823	1.823	1.823
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.04	-0.05	-0.06	-0.07	-0.08	-0.10
	Vento 0	N	6.614	6.614	6.614	6.614	6.614	6.614	6.614	6.614	6.614
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	Vento 180	N	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	Multidão (Passeio)	N	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.06	-0.07
	Multidão - TB450	N	4.173	4.173	4.173	4.173	4.173	4.173	4.173	4.173	4.173
		Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	-0.03	-0.05	-0.08	-0.11	-0.14	-0.16	-0.19	-0.22
	TB-450-A1	N	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.847
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04
	TB-450-A2	N	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03
	TB-450-B1	N	1.319	1.319	1.319	1.319	1.319	1.319	1.319	1.319	1.319
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.03	-0.05	-0.06	-0.07	-0.08	-0.09
	TB-450-B2	N	1.806	1.806	1.806	1.806	1.806	1.806	1.806	1.806	1.806
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08
	TB-450-C1	N	1.853	1.853	1.853	1.853	1.853	1.853	1.853	1.853	1.853
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.09
	TB-450-C2	N	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.356	1.356
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.04	-0.05	-0.06	-0.07	-0.08	-0.10
	TB-450-D1	N	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05	-0.06	-0.06
	TB-450-D2	N	1.244	1.244	1.244	1.244	1.244	1.244	1.244	1.244	1.244
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
	TB-450-E1	N	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
	TB-450-E2	N	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N89/N42	Peso próprio	N	11.555	11.555	11.555	11.555	11.555	11.555	11.555	11.555	11.555
		Vy	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
		Vz	1.203	2.021	2.839	3.656	4.474	5.292	6.110	6.927	7.745
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.61	24.46	22.72	20.40	17.49	13.99	9.91	5.25	0.00
		Mz	0.72	0.63	0.54	0.45	0.36	0.27	0.18	0.09	0.00
	Guarda Corpo	N	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Laje	N	3.551	3.551	3.551	3.551	3.551	3.551	3.551	3.551	3.551
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.38	-0.34	-0.29	-0.24	-0.19	-0.14	-0.10	-0.05	0.00
		Mz	-0.11	-0.10	-0.09	-0.07	-0.06	-0.04	-0.03	-0.01	0.00
	Pavimentação	N	1.942	1.942	1.942	1.942	1.942	1.942	1.942	1.942	1.942
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.21	-0.18	-0.16	-0.13	-0.11	-0.08	-0.05	-0.03	0.00
		Mz	-0.06	-0.06	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
	Recapeamento	N	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.10	-0.08	-0.07	-0.06	-0.05	-0.04	-0.02	-0.01	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	Vento 0	N	3.083	3.083	3.083	3.083	3.083	3.083	3.083	3.083	3.083
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	Vento 180	N	4.641	4.641	4.641	4.641	4.641	4.641	4.641	4.641	4.641
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Multidão (Passeio)	N	0.629	0.629	0.629	0.629	0.629	0.629	0.629	0.629	0.629
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Multidão - TB450	N	2.014	2.014	2.014	2.014	2.014	2.014	2.014	2.014	2.014
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.22	-0.19	-0.16	-0.14	-0.11	-0.08	-0.05	-0.03	0.00
		Mz	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
	TB-450-A1	N	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326	0.326
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.199	1.199	1.199	1.199	1.199	1.199	1.199	1.199	1.199

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
		Mz	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-B2	N	0.543	0.543	0.543	0.543	0.543	0.543	0.543	0.543	0.543
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-C1	N	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.08	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-C2	N	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	TB-450-D1	N	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-D2	N	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-E1	N	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N44/N90	Peso próprio	N	3.788	3.788	3.788	3.788	3.788	3.788	3.788	3.788	3.788
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-7.827	-7.009	-6.191	-5.374	-4.556	-3.738	-2.920	-2.103	-1.285
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.31	10.03	14.17	17.72	20.69	23.07	24.87	26.08
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04
	Laje	N	6.797	6.797	6.797	6.797	6.797	6.797	6.797	6.797	6.797
		Vy	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	-0.03	-0.07	-0.10	-0.13	-0.16	-0.20	-0.23	-0.26
	Pavimentação	N	3.732	3.732	3.732	3.732	3.732	3.732	3.732	3.732	3.732
		Vy	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	0.00	-0.02	-0.04	-0.05	-0.07	-0.09	-0.11	-0.13	-0.14
	Recapeamento	N	1.688	1.688	1.688	1.688	1.688	1.688	1.688	1.688	1.688
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07
	Vento 0	N	1.449	1.449	1.449	1.449	1.449	1.449	1.449	1.449	1.449
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 180	N	5.137	5.137	5.137	5.137	5.137	5.137	5.137	5.137	5.137
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	Multidão (Passeio)	N	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.05
	Multidão - TB450	N	3.912	3.912	3.912	3.912	3.912	3.912	3.912	3.912	3.912
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	-0.02	-0.04	-0.06	-0.07	-0.09	-0.11	-0.13	-0.15
	TB-450-A1	N	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548	0.548
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	TB-450-A2	N	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
	TB-450-B1	N	1.032	1.032	1.032	1.032	1.032	1.032	1.032	1.032	1.032
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
	TB-450-B2	N	1.705	1.705	1.705	1.705	1.705	1.705	1.705	1.705	1.705
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05
	TB-450-C1	N	2.045	2.045	2.045	2.045	2.045	2.045	2.045	2.045	2.045
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
	TB-450-C2	N	1.427	1.427	1.427	1.427	1.427	1.427	1.427	1.427	1.427
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.06	-0.07
	TB-450-D1	N	0.839	0.839	0.839	0.839	0.839	0.839	0.839	0.839	0.839
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05
	TB-450-D2	N	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
	TB-450-E1	N	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-E2	N	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N90/N45	Peso próprio	N	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828
		Vy	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
		Vz	1.221	2.039	2.857	3.674	4.492	5.310	6.128	6.945	7.763
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.72	24.55	22.80	20.46	17.54	14.03	9.94	5.26	0.00
		Mz	0.76	0.66	0.57	0.47	0.38	0.28	0.19	0.09	0.00
	Guarda Corpo	N	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Laje	N	3.708	3.708	3.708	3.708	3.708	3.708	3.708	3.708	3.708
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		My	-0.25	-0.22	-0.19	-0.16	-0.13	-0.09	-0.06	-0.03	0.00
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	Pavimentação	N	2.033	2.033	2.033	2.033	2.033	2.033	2.033	2.033	2.033
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.14	-0.12	-0.10	-0.09	-0.07	-0.05	-0.03	-0.02	0.00
		Mz	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Recapeamento	N	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Vento 0	N	7.261	7.261	7.261	7.261	7.261	7.261	7.261	7.261	7.261
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00
		Mz	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	Vento 180	N	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702	-0.702
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
	Multidão (Passeio)	N	0.627	0.627	0.627	0.627	0.627	0.627	0.627	0.627	0.627
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	Multidão - TB450	N	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.14	-0.13	-0.11	-0.09	-0.07	-0.05	-0.04	-0.02	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-A1	N	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-B2	N	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465	0.465
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-C2	N	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	TB-450-D1	N	0.669	0.669	0.669	0.669	0.669	0.669	0.669	0.669	0.669
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-D2	N	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
N46/N91	Peso próprio	N	11.504	11.504	11.504	11.504	11.504	11.504	11.504	11.504	11.504
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-7.825	-7.007	-6.190	-5.372	-4.554	-3.736	-2.919	-2.101	-1.283
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.31	10.03	14.17	17.72	20.68	23.07	24.86	26.07
		Mz	0.00	0.01	0.03	0.04	0.05	0.07	0.08	0.09	0.11
	Guarda Corpo	N	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
	Laje	N	4.251	4.251	4.251	4.251	4.251	4.251	4.251	4.251	4.251
		Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	-0.02	-0.03	-0.05	-0.06	-0.08	-0.09	-0.11	-0.12
	Pavimentação	N	2.305	2.305	2.305	2.305	2.305	2.305	2.305	2.305	2.305
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.06	-0.07
	Recapeamento	N	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03
	Vento 0	N	12.745	12.745	12.745	12.745	12.745	12.745	12.745	12.745	12.745
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
	Vento 180	N	-5.728	-5.728	-5.728	-5.728	-5.728	-5.728	-5.728	-5.728	-5.728
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04
	Multidão (Passeio)	N	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924	0.924
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	Multidão - TB450	N	2.164	2.164	2.164	2.164	2.164	2.164	2.164	2.164	2.164
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06	-0.07
	TB-450-A1	N	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.816	0.816	0.816	0.816	0.816	0.816	0.816	0.816	0.816
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
	TB-450-B2	N	1.543	1.543	1.543	1.543	1.543	1.543	1.543	1.543	1.543
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
	TB-450-C1	N	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
	TB-450-C2	N	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597	-0.597
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04
	TB-450-D1	N	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805	0.805
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03
	TB-450-D2	N	1.354	1.354	1.354	1.354	1.354	1.354	1.354	1.354	1.354
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	TB-450-E1	N	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-E2	N	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386	0.386
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N91/N47	Peso próprio	N	7.342	7.342	7.342	7.342	7.342	7.342	7.342	7.342	7.342
		Vy	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	1.236	2.054	2.872	3.690	4.507	5.325	6.143	6.961	7.779
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.81	24.63	22.87	20.52	17.58	14.07	9.96	5.27	0.00
		Mz	0.80	0.70	0.60	0.50	0.40	0.30	0.20	0.10	0.00
	Guarda Corpo	N	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	3.245	3.245	3.245	3.245	3.245	3.245	3.245	3.245	3.245
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.11	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
		Mz	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Pavimentação	N	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	Recapeamento	N	0.798	0.798	0.798	0.798	0.798	0.798	0.798	0.798	0.798
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Vento 0	N	-4.011	-4.011	-4.011	-4.011	-4.011	-4.011	-4.011	-4.011	-4.011
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
		Mz	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	Vento 180	N	10.966	10.966	10.966	10.966	10.966	10.966	10.966	10.966	10.966
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.05	0.05	0.04	0.03	0.02	0.02	0.01	0.00
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	Multidão (Passeio)	N	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	1.624	1.624	1.624	1.624	1.624	1.624	1.624	1.624	1.624
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-A1	N	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555	0.555
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-D1	N	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-D2	N	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539	0.539
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.363	0.363
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N49/N92	Peso próprio	N	3.190	3.190	3.190	3.190	3.190	3.190	3.190	3.190	3.190
		Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vz	-7.094	-6.276	-5.458	-4.641	-3.823	-3.005	-2.187	-1.370	-0.552
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.78	8.98	12.60	15.62	18.07	19.93	21.20	21.89
		Mz	0.00	-0.02	-0.04	-0.07	-0.09	-0.11	-0.13	-0.15	-0.18
	Guarda Corpo	N	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.09	-0.18	-0.28	-0.37	-0.46	-0.55	-0.64	-0.73
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	4.956	4.956	4.956	4.956	4.956	4.956	4.956	4.956	4.956
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.68	-1.36	-2.04	-2.72	-3.40	-4.08	-4.77	-5.45
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
	Pavimentação	N	2.707	2.707	2.707	2.707	2.707	2.707	2.707	2.707	2.707
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.37	-0.75	-1.12	-1.49	-1.87	-2.24	-2.61	-2.98
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Recapeamento	N	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.17	-0.34	-0.51	-0.68	-0.84	-1.01	-1.18	-1.35
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	Vento 0	N	-3.316	-3.316	-3.316	-3.316	-3.316	-3.316	-3.316	-3.316	-3.316
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.03	0.05	0.06	0.08	0.10	0.11	0.13
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 180	N	9.635	9.635	9.635	9.635	9.635	9.635	9.635	9.635	9.635
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.07
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.12	-0.24	-0.36	-0.48	-0.60	-0.72	-0.84	-0.96
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	Multidão - TB450	N	2.705	2.705	2.705	2.705	2.705	2.705	2.705	2.705	2.705
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.542	0.542	0.542	0.542	0.542	0.542	0.542	0.542	0.542
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.39	-0.78	-1.16	-1.55	-1.94	-2.33	-2.71	-3.10
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A1	N	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242	0.242
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.06	-0.11	-0.17	-0.23	-0.28	-0.34	-0.40	-0.45
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523	0.523
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.06	-0.11	-0.17	-0.23	-0.28	-0.34	-0.40	-0.45
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	TB-450-B1	N	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.14	-0.28	-0.42	-0.57	-0.71	-0.85	-0.99	-1.13
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393	1.393
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.14	-0.28	-0.42	-0.55	-0.69	-0.83	-0.97	-1.11
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	1.185	1.185	1.185	1.185	1.185	1.185	1.185	1.185	1.185
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.16	-0.32	-0.47	-0.63	-0.79	-0.95	-1.11	-1.26
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.16	-0.32	-0.49	-0.65	-0.81	-0.97	-1.14	-1.30
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
	TB-450-D1	N	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.12	-0.25	-0.37	-0.50	-0.62	-0.74	-0.87	-0.99
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
	TB-450-D2	N	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541	1.541
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.12	-0.24	-0.36	-0.48	-0.60	-0.72	-0.84	-0.96
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-E1	N	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		My	0.00	-0.04	-0.08	-0.11	-0.15	-0.19	-0.23	-0.27	-0.30
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
	TB-450-E2	N	0.654	0.654	0.654	0.654	0.654	0.654	0.654	0.654	0.654
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.04	-0.09	-0.13	-0.17	-0.22	-0.26	-0.30	-0.35
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N92/N48	Peso próprio	N	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.675	1.493	2.310	3.128	3.946	4.764	5.581	6.399	7.217
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.59	21.81	20.45	18.51	15.98	12.86	9.16	4.87	0.00
		Mz	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.02	-0.01	0.00
	Guarda Corpo	N	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.128	-0.128	-0.128	-0.128	-0.128	-0.128	-0.128	-0.128	-0.128
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.74	-0.64	-0.55	-0.46	-0.37	-0.28	-0.18	-0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	5.373	5.373	5.373	5.373	5.373	5.373	5.373	5.373	5.373
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.952	-0.952	-0.952	-0.952	-0.952	-0.952	-0.952	-0.952	-0.952
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.45	-4.77	-4.09	-3.41	-2.73	-2.04	-1.36	-0.68	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Pavimentação	N	2.930	2.930	2.930	2.930	2.930	2.930	2.930	2.930	2.930
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.99	-2.61	-2.24	-1.87	-1.49	-1.12	-0.75	-0.37	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Recapeamento	N	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.35	-1.18	-1.01	-0.85	-0.68	-0.51	-0.34	-0.17	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	10.758	10.758	10.758	10.758	10.758	10.758	10.758	10.758	10.758
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.13	0.11	0.10	0.08	0.06	0.05	0.03	0.02	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-4.636	-4.636	-4.636	-4.636	-4.636	-4.636	-4.636	-4.636	-4.636
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.96	-0.84	-0.72	-0.60	-0.48	-0.36	-0.24	-0.12	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	2.964	2.964	2.964	2.964	2.964	2.964	2.964	2.964	2.964
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.10	-2.72	-2.33	-1.94	-1.55	-1.16	-0.78	-0.39	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.819	0.819	0.819	0.819	0.819	0.819	0.819	0.819	0.819
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.45	-0.39	-0.34	-0.28	-0.23	-0.17	-0.11	-0.06	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079	-0.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.45	-0.40	-0.34	-0.28	-0.23	-0.17	-0.11	-0.06	0.00
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.572	1.572	1.572	1.572	1.572	1.572	1.572	1.572	1.572
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198	-0.198
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.13	-0.99	-0.85	-0.71	-0.57	-0.42	-0.28	-0.14	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.11	-0.97	-0.83	-0.69	-0.56	-0.42	-0.28	-0.14	0.00
		Mz	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221	-0.221
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.27	-1.11	-0.95	-0.79	-0.63	-0.47	-0.32	-0.16	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.229	-0.229	-0.229	-0.229	-0.229	-0.229	-0.229	-0.229	-0.229
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.31	-1.15	-0.98	-0.82	-0.66	-0.49	-0.33	-0.16	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	1.359	1.359	1.359	1.359	1.359	1.359	1.359	1.359	1.359
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.99	-0.87	-0.74	-0.62	-0.50	-0.37	-0.25	-0.12	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-D2	N	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.95	-0.83	-0.71	-0.60	-0.48	-0.36	-0.24	-0.12	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.30	-0.27	-0.23	-0.19	-0.15	-0.11	-0.08	-0.04	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.35	-0.30	-0.26	-0.22	-0.17	-0.13	-0.09	-0.04	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N51/N93	Peso próprio	N	-7.110	-7.110	-7.110	-7.110	-7.110	-7.110	-7.110	-7.110	-7.110
		Vy	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123
		Vz	-6.940	-6.122	-5.304	-4.486	-3.669	-2.851	-2.033	-1.215	-0.398
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	-2.57	2.10	6.19	9.69	12.61	14.94	16.69	17.85	18.43
		Mz	-0.43	-0.34	-0.25	-0.16	-0.07	0.01	0.10	0.19	0.28
	Guarda Corpo	N	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	-0.07	-0.15	-0.23	-0.31	-0.39	-0.47	-0.55	-0.63
		Mz	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03
	Laje	N	2.307	2.307	2.307	2.307	2.307	2.307	2.307	2.307	2.307
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-0.07	-0.67	-1.27	-1.87	-2.46	-3.06	-3.66	-4.26	-4.86
		Mz	-0.03	0.00	0.04	0.07	0.11	0.14	0.18	0.21	0.25

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	Pavimentação	N	1.258	1.258	1.258	1.258	1.258	1.258	1.258	1.258	1.258
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.04	-0.37	-0.70	-1.03	-1.36	-1.69	-2.02	-2.34	-2.67
		Mz	-0.02	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14
	Recapeamento	N	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.208
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.17	-0.32	-0.47	-0.61	-0.76	-0.91	-1.06	-1.21
		Mz	-0.01	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.06
	Vento 0	N	2.078	2.078	2.078	2.078	2.078	2.078	2.078	2.078	2.078
		Vy	-0.322	-0.322	-0.322	-0.322	-0.322	-0.322	-0.322	-0.322	-0.322
		Vz	7.309	7.309	7.309	7.309	7.309	7.309	7.309	7.309	7.309
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	42.28	37.05	31.82	26.59	21.36	16.13	10.90	5.67	0.44
		Mz	-1.84	-1.61	-1.38	-1.15	-0.92	-0.69	-0.46	-0.23	0.00
	Vento 180	N	3.895	3.895	3.895	3.895	3.895	3.895	3.895	3.895	3.895
		Vy	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
		Vz	-7.295	-7.295	-7.295	-7.295	-7.295	-7.295	-7.295	-7.295	-7.295
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-40.92	-35.69	-30.47	-25.25	-20.03	-14.81	-9.59	-4.37	0.85
		Mz	1.77	1.55	1.33	1.11	0.89	0.67	0.45	0.24	0.02
	Multidão (Passeio)	N	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	-0.05	-0.16	-0.26	-0.37	-0.47	-0.58	-0.68	-0.79
		Mz	-0.01	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04
	Multidão - TB450	N	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477	0.477
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.13	-0.47	-0.81	-1.15	-1.49	-1.84	-2.18	-2.52	-2.86
		Mz	-0.02	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14
	TB-450-A1	N	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.52	0.41	0.30	0.20	0.09	-0.01	-0.12	-0.22	-0.33
		Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01	0.02	0.02
	TB-450-A2	N	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364	0.364
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.53	0.43	0.32	0.22	0.11	0.01	-0.10	-0.20	-0.31
		Mz	-0.03	-0.02	-0.01	-0.01	0.00	0.00	0.01	0.02	0.02
	TB-450-B1	N	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.08	-0.04	-0.16	-0.27	-0.39	-0.51	-0.63	-0.74	-0.86
		Mz	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.04	0.05	0.06
	TB-450-B2	N	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.09	-0.02	-0.13	-0.24	-0.35	-0.46	-0.57	-0.68	-0.79
		Mz	-0.01	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.06
	TB-450-C1	N	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.04	-0.16	-0.35	-0.54	-0.73	-0.93	-1.12	-1.31	-1.50
		Mz	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06
	TB-450-C2	N	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.73	-0.83	-0.93	-1.03	-1.13	-1.23	-1.33	-1.43	-1.53
		Mz	-0.01	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.06
	TB-450-D1	N	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.09	-0.03	-0.14	-0.25	-0.36	-0.48	-0.59	-0.70	-0.81
		Mz	-0.02	-0.01	0.00	0.00	0.01	0.02	0.03	0.03	0.04
	TB-450-D2	N	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	-0.06	-0.18	-0.29	-0.41	-0.53	-0.64	-0.76	-0.88
		Mz	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
	TB-450-E1	N	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.20	-0.20	-0.21	-0.22	-0.23	-0.24	-0.25	-0.25	-0.26
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-E2	N	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.49	-0.47	-0.45	-0.43	-0.41	-0.39	-0.37	-0.35	-0.33
		Mz	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.01	0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N93/N50	Peso próprio	N	-1.994	-1.994	-1.994	-1.994	-1.994	-1.994	-1.994	-1.994	-1.994
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	0.530	1.348	2.165	2.983	3.801	4.619	5.436	6.254	7.072
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	19.08	18.41	17.15	15.31	12.88	9.87	6.27	2.09	-2.68
		Mz	0.15	0.07	-0.01	-0.10	-0.18	-0.26	-0.34	-0.42	-0.50
	Guarda Corpo	N	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.63	-0.55	-0.47	-0.40	-0.32	-0.25	-0.17	-0.09	-0.02

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.03	-0.04	-0.05
	Laje	N	4.571	4.571	4.571	4.571	4.571	4.571	4.571	4.571	4.571
		Vy	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
		Vz	-0.782	-0.782	-0.782	-0.782	-0.782	-0.782	-0.782	-0.782	-0.782
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-4.81	-4.25	-3.69	-3.13	-2.57	-2.01	-1.45	-0.89	-0.33
		Mz	0.30	0.22	0.14	0.06	-0.02	-0.10	-0.18	-0.26	-0.34
	Pavimentação	N	2.490	2.490	2.490	2.490	2.490	2.490	2.490	2.490	2.490
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-2.65	-2.34	-2.03	-1.73	-1.42	-1.12	-0.81	-0.50	-0.20
		Mz	0.16	0.12	0.08	0.03	-0.01	-0.06	-0.10	-0.14	-0.19
	Recapeamento	N	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.20	-1.06	-0.92	-0.78	-0.64	-0.50	-0.36	-0.23	-0.09
		Mz	0.07	0.05	0.03	0.01	-0.01	-0.03	-0.05	-0.07	-0.09
	Vento 0	N	5.787	5.787	5.787	5.787	5.787	5.787	5.787	5.787	5.787
		Vy	-0.302	-0.302	-0.302	-0.302	-0.302	-0.302	-0.302	-0.302	-0.302
		Vz	7.376	7.376	7.376	7.376	7.376	7.376	7.376	7.376	7.376
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.50	-4.78	-10.06	-15.34	-20.62	-25.89	-31.17	-36.45	-41.73
		Mz	0.03	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76
	Vento 180	N	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
		Vy	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321
		Vz	-7.395	-7.395	-7.395	-7.395	-7.395	-7.395	-7.395	-7.395	-7.395
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.79	6.08	11.37	16.66	21.95	27.24	32.54	37.83	43.12
		Mz	-0.02	-0.25	-0.47	-0.70	-0.93	-1.16	-1.39	-1.62	-1.85
	Multidão (Passeio)	N	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.78	-0.68	-0.58	-0.48	-0.38	-0.28	-0.18	-0.08	0.02
		Mz	0.05	0.04	0.02	0.01	-0.01	-0.02	-0.03	-0.05	-0.06

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	Multidão - TB450	N	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513	2.513
		Vy	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Vz	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441	-0.441
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-2.83	-2.51	-2.20	-1.88	-1.57	-1.25	-0.94	-0.62	-0.30
		Mz	0.17	0.12	0.08	0.03	-0.01	-0.06	-0.10	-0.15	-0.19
	TB-450-A1	N	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.32	-0.34	-0.37	-0.39	-0.41	-0.44	-0.46	-0.48	-0.51
		Mz	0.03	0.02	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02
	TB-450-A2	N	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.30	-0.32	-0.34	-0.36	-0.38	-0.40	-0.42	-0.44	-0.46
		Mz	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00	-0.01
	TB-450-B1	N	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.85	-0.74	-0.64	-0.54	-0.43	-0.33	-0.23	-0.13	-0.02
		Mz	0.07	0.05	0.03	0.01	-0.01	-0.03	-0.05	-0.07	-0.09
	TB-450-B2	N	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.78	-0.66	-0.55	-0.43	-0.31	-0.20	-0.08	0.03	0.15
		Mz	0.07	0.05	0.03	0.02	0.00	-0.02	-0.03	-0.05	-0.07
	TB-450-C1	N	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.49	-1.42	-1.35	-1.28	-1.21	-1.14	-1.08	-1.01	-0.94
		Mz	0.07	0.05	0.04	0.03	0.02	0.00	-0.01	-0.02	-0.04
	TB-450-C2	N	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146	1.146

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225	-0.225
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.52	-1.36	-1.20	-1.04	-0.88	-0.71	-0.55	-0.39	-0.23
		Mz	0.08	0.05	0.03	0.01	-0.01	-0.03	-0.05	-0.07	-0.10
	TB-450-D1	N	1.162	1.162	1.162	1.162	1.162	1.162	1.162	1.162	1.162
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-0.168	-0.168	-0.168	-0.168	-0.168	-0.168	-0.168	-0.168	-0.168
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.81	-0.69	-0.57	-0.45	-0.33	-0.21	-0.09	0.03	0.15
		Mz	0.05	0.03	0.02	0.00	-0.01	-0.02	-0.04	-0.05	-0.07
	TB-450-D2	N	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.87	-0.75	-0.64	-0.53	-0.42	-0.31	-0.19	-0.08	0.03
		Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.04	-0.05
	TB-450-E1	N	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.26	-0.19	-0.13	-0.06	0.01	0.08	0.14	0.21	0.28
		Mz	0.01	0.01	0.00	0.00	-0.01	-0.02	-0.02	-0.03	-0.03
	TB-450-E2	N	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.33	-0.22	-0.12	-0.01	0.10	0.21	0.31	0.42	0.53
		Mz	0.01	0.01	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N53/N94	Peso próprio	N	7.171	7.171	7.171	7.171	7.171	7.171	7.171	7.171	7.171
		Vy	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vz	-7.743	-6.925	-6.108	-5.290	-4.472	-3.654	-2.837	-2.019	-1.201
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		My	0.00	5.25	9.91	13.99	17.48	20.39	22.71	24.45	25.60
		Mz	0.00	-0.02	-0.04	-0.07	-0.09	-0.11	-0.13	-0.15	-0.18
	Guarda Corpo	N	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	Laje	N	6.339	6.339	6.339	6.339	6.339	6.339	6.339	6.339	6.339
		Vy	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064
		Vz	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.03	-0.06	-0.08	-0.11	-0.14	-0.17	-0.20	-0.22
		Mz	0.00	0.05	0.09	0.14	0.18	0.23	0.28	0.32	0.37
	Pavimentação	N	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.02	-0.03	-0.05	-0.06	-0.08	-0.09	-0.11	-0.12
		Mz	0.00	0.03	0.05	0.08	0.10	0.13	0.15	0.18	0.20
	Recapeamento	N	1.565	1.565	1.565	1.565	1.565	1.565	1.565	1.565	1.565
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.06
		Mz	0.00	0.01	0.02	0.03	0.05	0.06	0.07	0.08	0.09
	Vento 0	N	13.213	13.213	13.213	13.213	13.213	13.213	13.213	13.213	13.213
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05
		Mz	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06
	Vento 180	N	-6.057	-6.057	-6.057	-6.057	-6.057	-6.057	-6.057	-6.057	-6.057
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05	-0.06	-0.06

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04
	Multidão (Passeio)	N	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
		Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07
	Multidão - TB450	N	3.374	3.374	3.374	3.374	3.374	3.374	3.374	3.374	3.374
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.02	-0.03	-0.05	-0.06	-0.08	-0.09	-0.11	-0.13
		Mz	0.00	0.03	0.05	0.08	0.10	0.13	0.16	0.18	0.21
	TB-450-A1	N	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
		Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
	TB-450-A2	N	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716	0.716
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
		Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03
	TB-450-B1	N	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
		Mz	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07
	TB-450-B2	N	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	TB-450-C1	N	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05
		Mz	0.00	0.01	0.02	0.03	0.04	0.06	0.07	0.08	0.09
	TB-450-C2	N	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
	TB-450-D1	N	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05
		Mz	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.07
	TB-450-D2	N	1.942	1.942	1.942	1.942	1.942	1.942	1.942	1.942	1.942
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
	TB-450-E1	N	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
		Mz	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
	TB-450-E2	N	0.816	0.816	0.816	0.816	0.816	0.816	0.816	0.816	0.816
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
		Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N94/N52	Peso próprio	N	14.663	14.663	14.663	14.663	14.663	14.663	14.663	14.663	14.663
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	1.201	2.018	2.836	3.654	4.472	5.289	6.107	6.925	7.743
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.60	24.45	22.71	20.39	17.48	13.99	9.91	5.25	0.00
		Mz	-0.19	-0.16	-0.14	-0.12	-0.09	-0.07	-0.05	-0.02	0.00
	Guarda Corpo	N	1.406	1.406	1.406	1.406	1.406	1.406	1.406	1.406	1.406
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00
		Mz	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.00
	Laje	N	9.916	9.916	9.916	9.916	9.916	9.916	9.916	9.916	9.916
		Vy	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
		Vz	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.23	-0.20	-0.17	-0.14	-0.11	-0.09	-0.06	-0.03	0.00
		Mz	0.36	0.32	0.27	0.23	0.18	0.14	0.09	0.05	0.00
	Pavimentação	N	5.397	5.397	5.397	5.397	5.397	5.397	5.397	5.397	5.397
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.12	-0.11	-0.09	-0.08	-0.06	-0.05	-0.03	-0.02	0.00
		Mz	0.20	0.17	0.15	0.12	0.10	0.07	0.05	0.02	0.00
	Recapeamento	N	2.451	2.451	2.451	2.451	2.451	2.451	2.451	2.451	2.451
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	0.09	0.08	0.07	0.06	0.04	0.03	0.02	0.01	0.00
	Vento 0	N	-7.906	-7.906	-7.906	-7.906	-7.906	-7.906	-7.906	-7.906	-7.906
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.00
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	Vento 180	N	15.343	15.343	15.343	15.343	15.343	15.343	15.343	15.343	15.343

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Multidão (Passeio)	N	1.935	1.935	1.935	1.935	1.935	1.935	1.935	1.935	1.935
		Vy	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.00
	Multidão - TB450	N	5.365	5.365	5.365	5.365	5.365	5.365	5.365	5.365	5.365
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.13	-0.11	-0.10	-0.08	-0.06	-0.05	-0.03	-0.02	0.00
		Mz	0.21	0.18	0.15	0.13	0.10	0.08	0.05	0.03	0.00
	TB-450-A1	N	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00
	TB-450-A2	N	0.542	0.542	0.542	0.542	0.542	0.542	0.542	0.542	0.542
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00
	TB-450-B1	N	2.301	2.301	2.301	2.301	2.301	2.301	2.301	2.301	2.301
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
	TB-450-B2	N	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-C1	N	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	0.09	0.08	0.07	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-C2	N	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.04	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-D1	N	2.764	2.764	2.764	2.764	2.764	2.764	2.764	2.764	2.764
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
	TB-450-D2	N	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921	1.921
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-E1	N	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
	TB-450-E2	N	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N55/N95	Peso próprio	N	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558
		Vy	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142
		Vz	-7.892	-7.074	-6.256	-5.439	-4.621	-3.803	-2.985	-2.168	-1.350
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.36	10.12	14.31	17.91	20.92	23.35	25.20	26.45
		Mz	0.00	-0.10	-0.20	-0.30	-0.41	-0.51	-0.61	-0.71	-0.81
	Guarda Corpo	N	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	11.685	11.685	11.685	11.685	11.685	11.685	11.685	11.685	11.685
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.03	0.07	0.10	0.13	0.17	0.20	0.24	0.27
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	Pavimentação	N	6.409	6.409	6.409	6.409	6.409	6.409	6.409	6.409	6.409
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.04	0.06	0.07	0.09	0.11	0.13	0.15
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	Recapeamento	N	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	Vento 0	N	-3.488	-3.488	-3.488	-3.488	-3.488	-3.488	-3.488	-3.488	-3.488
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05
	Vento 180	N	10.249	10.249	10.249	10.249	10.249	10.249	10.249	10.249	10.249
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	Multidão (Passeio)	N	2.027	2.027	2.027	2.027	2.027	2.027	2.027	2.027	2.027
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	6.686	6.686	6.686	6.686	6.686	6.686	6.686	6.686	6.686
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.04	0.06	0.08	0.10	0.11	0.13	0.15
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A1	N	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.572	1.572	1.572	1.572	1.572	1.572	1.572	1.572	1.572

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	TB-450-B2	N	2.102	2.102	2.102	2.102	2.102	2.102	2.102	2.102	2.102
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	3.156	3.156	3.156	3.156	3.156	3.156	3.156	3.156	3.156
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	2.407	2.407	2.407	2.407	2.407	2.407	2.407	2.407	2.407
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	2.087	2.087	2.087	2.087	2.087	2.087	2.087	2.087	2.087
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-D2	N	2.823	2.823	2.823	2.823	2.823	2.823	2.823	2.823	2.823
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.910	0.910	0.910	0.910	0.910	0.910	0.910	0.910	0.910
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N95/N54	Peso próprio	N	13.262	13.262	13.262	13.262	13.262	13.262	13.262	13.262	13.262
		Vy	-0.142	-0.142	-0.142	-0.142	-0.142	-0.142	-0.142	-0.142	-0.142
		Vz	1.350	2.168	2.986	3.803	4.621	5.439	6.257	7.074	7.892
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.46	25.20	23.35	20.92	17.91	14.31	10.13	5.36	0.00
		Mz	-0.81	-0.71	-0.61	-0.51	-0.41	-0.30	-0.20	-0.10	0.00
	Guarda Corpo	N	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	13.311	13.311	13.311	13.311	13.311	13.311	13.311	13.311	13.311
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.27	0.24	0.20	0.17	0.13	0.10	0.07	0.03	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Pavimentação	N	7.295	7.295	7.295	7.295	7.295	7.295	7.295	7.295	7.295
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.13	0.11	0.09	0.07	0.06	0.04	0.02	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Recapeamento	N	3.304	3.304	3.304	3.304	3.304	3.304	3.304	3.304	3.304
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.00
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	5.720	5.720	5.720	5.720	5.720	5.720	5.720	5.720	5.720
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Vento 180	N	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.01	0.00
		Mz	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.00
	Multidão (Passeio)	N	2.308	2.308	2.308	2.308	2.308	2.308	2.308	2.308	2.308
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	7.619	7.619	7.619	7.619	7.619	7.619	7.619	7.619	7.619
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.13	0.11	0.09	0.08	0.06	0.04	0.02	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	TB-450-A2	N	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739	0.739
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	2.351	2.351	2.351	2.351	2.351	2.351	2.351	2.351	2.351
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.04	0.04	0.03	0.03	0.02	0.01	0.01	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	1.953	1.953	1.953	1.953	1.953	1.953	1.953	1.953	1.953
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	2.895	2.895	2.895	2.895	2.895	2.895	2.895	2.895	2.895
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.05	0.05	0.04	0.03	0.02	0.02	0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	3.109	3.109	3.109	3.109	3.109	3.109	3.109	3.109	3.109
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-D2	N	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425	2.425

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	1.236	1.236	1.236	1.236	1.236	1.236	1.236	1.236	1.236
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N57/N96	Peso próprio	N	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289
		Vy	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.453
		Vz	-7.116	-6.298	-5.480	-4.662	-3.844	-3.027	-2.209	-1.391	-0.573
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	4.80	9.01	12.64	15.69	18.15	20.02	21.31	22.01
		Mz	0.00	-0.32	-0.65	-0.97	-1.30	-1.62	-1.95	-2.27	-2.60
	Guarda Corpo	N	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	-0.01	-0.02	-0.04	-0.05	-0.06	-0.07	-0.08	-0.09
	Laje	N	3.017	3.017	3.017	3.017	3.017	3.017	3.017	3.017	3.017
		Vy	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123
		Vz	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		My	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08
		Mz	0.00	-0.09	-0.18	-0.26	-0.35	-0.44	-0.53	-0.61	-0.70
	Pavimentação	N	1.653	1.653	1.653	1.653	1.653	1.653	1.653	1.653	1.653
		Vy	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.05
		Mz	0.00	-0.05	-0.10	-0.14	-0.19	-0.24	-0.29	-0.34	-0.38
	Recapeamento	N	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
		Mz	0.00	-0.02	-0.04	-0.07	-0.09	-0.11	-0.13	-0.15	-0.17
	Vento 0	N	11.199	11.199	11.199	11.199	11.199	11.199	11.199	11.199	11.199
		Vy	-0.389	-0.389	-0.389	-0.389	-0.389	-0.389	-0.389	-0.389	-0.389
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
		Mz	0.00	0.28	0.56	0.84	1.11	1.39	1.67	1.95	2.23
	Vento 180	N	-5.118	-5.118	-5.118	-5.118	-5.118	-5.118	-5.118	-5.118	-5.118
		Vy	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405
		Vz	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05
		Mz	0.00	-0.29	-0.58	-0.87	-1.16	-1.45	-1.74	-2.03	-2.32
	Multidão (Passeio)	N	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528
		Vy	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	-0.02	-0.03	-0.05	-0.06	-0.08	-0.09	-0.11	-0.12
	Multidão - TB450	N	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720
		Vy	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.05

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	0.00	-0.05	-0.10	-0.15	-0.20	-0.25	-0.30	-0.35	-0.40
	TB-450-A1	N	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
	TB-450-A2	N	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03
	TB-450-B1	N	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	-0.02	-0.03	-0.05	-0.07	-0.09	-0.10	-0.12	-0.14
	TB-450-B2	N	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		Mz	0.00	-0.02	-0.03	-0.05	-0.07	-0.08	-0.10	-0.11	-0.13
	TB-450-C1	N	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.09	-0.11	-0.13	-0.15
	TB-450-C2	N	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410
		Vy	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
		Mz	0.00	-0.03	-0.05	-0.08	-0.10	-0.13	-0.15	-0.18	-0.20

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	TB-450-D1	N	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
		Vy	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
		Mz	0.00	-0.02	-0.04	-0.07	-0.09	-0.11	-0.13	-0.15	-0.17
	TB-450-D2	N	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840
		Vy	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02
		Mz	0.00	-0.02	-0.04	-0.05	-0.07	-0.09	-0.11	-0.12	-0.14
	TB-450-E1	N	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.06
	TB-450-E2	N	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771	0.771
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N96/N56	Peso próprio	N	-0.456	-0.456	-0.456	-0.456	-0.456	-0.456	-0.456	-0.456	-0.456
		Vy	-0.549	-0.549	-0.549	-0.549	-0.549	-0.549	-0.549	-0.549	-0.549
		Vz	0.586	1.403	2.221	3.039	3.857	4.674	5.492	6.310	7.128
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.08	21.37	20.07	18.19	15.72	12.67	9.03	4.81	0.00
		Mz	-3.14	-2.75	-2.36	-1.97	-1.57	-1.18	-0.79	-0.39	0.00
	Guarda Corpo	N	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
	Laje	N	3.481	3.481	3.481	3.481	3.481	3.481	3.481	3.481	3.481
		Vy	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107
		Vz	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
		Mz	-0.61	-0.53	-0.46	-0.38	-0.30	-0.23	-0.15	-0.08	0.00
	Pavimentação	N	1.906	1.906	1.906	1.906	1.906	1.906	1.906	1.906	1.906
		Vy	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.33	-0.29	-0.25	-0.21	-0.17	-0.13	-0.08	-0.04	0.00
	Recapeamento	N	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.15	-0.13	-0.11	-0.09	-0.08	-0.06	-0.04	-0.02	0.00
	Vento 0	N	-7.996	-7.996	-7.996	-7.996	-7.996	-7.996	-7.996	-7.996	-7.996
		Vy	-0.281	-0.281	-0.281	-0.281	-0.281	-0.281	-0.281	-0.281	-0.281
		Vz	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
		Mz	-1.61	-1.41	-1.21	-1.01	-0.81	-0.60	-0.40	-0.20	0.00
	Vento 180	N	13.965	13.965	13.965	13.965	13.965	13.965	13.965	13.965	13.965
		Vy	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
		Mz	1.50	1.31	1.12	0.93	0.75	0.56	0.37	0.19	0.00
	Multidão (Passeio)	N	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.11	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
	Multidão - TB450	N	1.986	1.986	1.986	1.986	1.986	1.986	1.986	1.986	1.986
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.35	-0.30	-0.26	-0.22	-0.17	-0.13	-0.09	-0.04	0.00
	TB-450-A1	N	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-A2	N	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
	TB-450-B1	N	0.474	0.474	0.474	0.474	0.474	0.474	0.474	0.474	0.474
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.09	-0.08	-0.07	-0.06	-0.05	-0.03	-0.02	-0.01	0.00
	TB-450-B2	N	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.11	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
	TB-450-C1	N	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mz	-0.16	-0.14	-0.12	-0.10	-0.08	-0.06	-0.04	-0.02	0.00
	TB-450-C2	N	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851
		Vy	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.11	-0.10	-0.09	-0.07	-0.06	-0.04	-0.03	-0.01	0.00
	TB-450-D1	N	0.952	0.952	0.952	0.952	0.952	0.952	0.952	0.952	0.952
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.11	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03	-0.01	0.00
	TB-450-D2	N	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.14	-0.12	-0.10	-0.09	-0.07	-0.05	-0.03	-0.02	0.00
	TB-450-E1	N	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	TB-450-E2	N	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.07	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N88/N89	Peso próprio	N	10.136	10.143	10.149	10.152	10.158	10.165	10.171	10.174	10.181
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N89/N90	Peso próprio	N	3.299	3.305	3.309	3.315	3.321	3.328	3.334	3.337	3.344
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.145	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-7.421	-7.421	-7.421	-7.421	-7.421	-7.421	-7.421	-7.421	-7.421
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-4.066	-4.066	-4.066	-4.066	-4.066	-4.066	-4.066	-4.066	-4.066
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.841	-1.841	-1.841	-1.841	-1.841	-1.841	-1.841	-1.841	-1.841
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-0.294	-0.294	-0.294	-0.294	-0.294	-0.294	-0.294	-0.294	-0.294
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-4.230	-4.230	-4.230	-4.230	-4.230	-4.230	-4.230	-4.230	-4.230
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.807	-0.807	-0.807	-0.807	-0.807	-0.807	-0.807	-0.807	-0.807
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.779	-0.779	-0.779	-0.779	-0.779	-0.779	-0.779	-0.779	-0.779
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.683	-1.683	-1.683	-1.683	-1.683	-1.683	-1.683	-1.683	-1.683
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.625	-1.625	-1.625	-1.625	-1.625	-1.625	-1.625	-1.625	-1.625
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.671	-1.671	-1.671	-1.671	-1.671	-1.671	-1.671	-1.671	-1.671
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.713	-1.713	-1.713	-1.713	-1.713	-1.713	-1.713	-1.713	-1.713
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184	-1.184
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350	-0.350
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394	-0.394
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N90/N91	Peso próprio	N	-1.562	-1.556	-1.553	-1.547	-1.540	-1.534	-1.528	-1.524	-1.518
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.145	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.658	-1.658	-1.658	-1.658	-1.658	-1.658	-1.658	-1.658	-1.658
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-12.278	-12.278	-12.278	-12.278	-12.278	-12.278	-12.278	-12.278	-12.278
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-6.726	-6.726	-6.726	-6.726	-6.726	-6.726	-6.726	-6.726	-6.726
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-3.046	-3.046	-3.046	-3.046	-3.046	-3.046	-3.046	-3.046	-3.046

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-2.157	-2.157	-2.157	-2.157	-2.157	-2.157	-2.157	-2.157	-2.157
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-6.986	-6.986	-6.986	-6.986	-6.986	-6.986	-6.986	-6.986	-6.986
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-1.200	-1.200	-1.200	-1.200	-1.200	-1.200	-1.200	-1.200	-1.200
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-1.162	-1.162	-1.162	-1.162	-1.162	-1.162	-1.162	-1.162	-1.162
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-2.781	-2.781	-2.781	-2.781	-2.781	-2.781	-2.781	-2.781	-2.781
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648	-2.648
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-2.741	-2.741	-2.741	-2.741	-2.741	-2.741	-2.741	-2.741	-2.741
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-2.862	-2.862	-2.862	-2.862	-2.862	-2.862	-2.862	-2.862	-2.862
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-2.068	-2.068	-2.068	-2.068	-2.068	-2.068	-2.068	-2.068	-2.068
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.969	-1.969	-1.969	-1.969	-1.969	-1.969	-1.969	-1.969	-1.969
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.620	-0.620	-0.620	-0.620	-0.620	-0.620	-0.620	-0.620	-0.620
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N91/N92	Peso próprio	N	-4.709	-4.703	-4.699	-4.693	-4.687	-4.680	-4.674	-4.671	-4.665
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.145	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.940	-1.940	-1.940	-1.940	-1.940	-1.940	-1.940	-1.940	-1.940
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-14.350	-14.350	-14.350	-14.350	-14.350	-14.350	-14.350	-14.350	-14.350
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
	Pavimentação	N	-7.861	-7.861	-7.861	-7.861	-7.861	-7.861	-7.861	-7.861	-7.861
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-3.560	-3.560	-3.560	-3.560	-3.560	-3.560	-3.560	-3.560	-3.560
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-1.006	-1.006	-1.006	-1.006	-1.006	-1.006	-1.006	-1.006	-1.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-2.529	-2.529	-2.529	-2.529	-2.529	-2.529	-2.529	-2.529	-2.529
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-8.154	-8.154	-8.154	-8.154	-8.154	-8.154	-8.154	-8.154	-8.154
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-1.292	-1.292	-1.292	-1.292	-1.292	-1.292	-1.292	-1.292	-1.292

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-1.277	-1.277	-1.277	-1.277	-1.277	-1.277	-1.277	-1.277	-1.277
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-3.168	-3.168	-3.168	-3.168	-3.168	-3.168	-3.168	-3.168	-3.168
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-3.037	-3.037	-3.037	-3.037	-3.037	-3.037	-3.037	-3.037	-3.037
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-3.212	-3.212	-3.212	-3.212	-3.212	-3.212	-3.212	-3.212	-3.212
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-3.369	-3.369	-3.369	-3.369	-3.369	-3.369	-3.369	-3.369	-3.369
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-2.540	-2.540	-2.540	-2.540	-2.540	-2.540	-2.540	-2.540	-2.540
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-2.391	-2.391	-2.391	-2.391	-2.391	-2.391	-2.391	-2.391	-2.391
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763	-0.763
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835	-0.835
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N94/N93	Peso próprio	N	-4.755	-4.746	-4.737	-4.733	-4.724	-4.715	-4.706	-4.702	-4.693
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382	-1.382
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-10.166	-10.166	-10.166	-10.166	-10.166	-10.166	-10.166	-10.166	-10.166
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-5.566	-5.566	-5.566	-5.566	-5.566	-5.566	-5.566	-5.566	-5.566
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-2.521	-2.521	-2.521	-2.521	-2.521	-2.521	-2.521	-2.521	-2.521
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.849	1.849	1.849	1.849	1.849	1.849	1.849	1.849	1.849
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-2.457	-2.457	-2.457	-2.457	-2.457	-2.457	-2.457	-2.457	-2.457
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.814	-1.814	-1.814	-1.814	-1.814	-1.814	-1.814	-1.814	-1.814
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
	Multidão - TB450	N	-5.745	-5.745	-5.745	-5.745	-5.745	-5.745	-5.745	-5.745	-5.745
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698	-0.698
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721	-0.721
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.933	-1.933	-1.933	-1.933	-1.933	-1.933	-1.933	-1.933	-1.933
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.971	-1.971	-1.971	-1.971	-1.971	-1.971	-1.971	-1.971	-1.971
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-2.211	-2.211	-2.211	-2.211	-2.211	-2.211	-2.211	-2.211	-2.211
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-2.276	-2.276	-2.276	-2.276	-2.276	-2.276	-2.276	-2.276	-2.276

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-2.114	-2.114	-2.114	-2.114	-2.114	-2.114	-2.114	-2.114	-2.114
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-2.038	-2.038	-2.038	-2.038	-2.038	-2.038	-2.038	-2.038	-2.038
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N95/N94	Peso próprio	N	11.557	11.566	11.571	11.579	11.588	11.597	11.606	11.610	11.619
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-0.415	-0.343	-0.306	-0.234	-0.162	-0.089	-0.017	0.019	0.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		My	0.00	0.15	0.21	0.32	0.40	0.45	0.47	0.47	0.45
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	Guarda Corpo	N	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151	-0.151
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094	-0.094
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.04	0.06	0.09	0.13	0.17	0.20	0.22	0.26
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	Pavimentação	N	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.03	0.05	0.07	0.09	0.11	0.12	0.14
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.06
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04	-0.04	-0.04
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02
	Vento 180	N	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.06

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
	Multidão (Passeio)	N	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.03	0.05	0.07	0.09	0.12	0.13	0.15
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
	TB-450-C1	N	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.06
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N58/N97	Peso próprio	N	10.056	10.056	10.056	10.056	10.056	10.056	10.056	10.056	10.056
		Vy	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
		Vz	-7.810	-6.993	-6.175	-5.357	-4.539	-3.721	-2.904	-2.086	-1.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	5.30	10.01	14.13	17.68	20.63	23.00	24.79	25.99
		Mz	0.00	-0.10	-0.20	-0.30	-0.40	-0.51	-0.61	-0.71	-0.81
	Guarda Corpo	N	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	2.612	2.612	2.612	2.612	2.612	2.612	2.612	2.612	2.612
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	Pavimentação	N	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433	1.433
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	Recapeamento	N	0.648	0.648	0.648	0.648	0.648	0.648	0.648	0.648	0.648
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
	Vento 0	N	6.651	6.651	6.651	6.651	6.651	6.651	6.651	6.651	6.651
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	Vento 180	N	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
		Mz	0.00	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.05	-0.05
	Multidão (Passeio)	N	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486	1.486
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A1	N	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	TB-450-D2	N	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
	TB-450-E2	N	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N97/N33	Peso próprio	N	8.331	8.331	8.331	8.331	8.331	8.331	8.331	8.331	8.331
		Vy	-0.141	-0.141	-0.141	-0.141	-0.141	-0.141	-0.141	-0.141	-0.141
		Vz	1.269	2.086	2.904	3.722	4.540	5.358	6.175	6.993	7.811
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.99	24.79	23.00	20.63	17.68	14.14	10.01	5.30	0.00
		Mz	-0.81	-0.71	-0.61	-0.51	-0.40	-0.30	-0.20	-0.10	0.00
	Guarda Corpo	N	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	3.803	3.803	3.803	3.803	3.803	3.803	3.803	3.803	3.803
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Pavimentação	N	2.081	2.081	2.081	2.081	2.081	2.081	2.081	2.081	2.081
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Recapeamento	N	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
	Vento 0	N	-1.457	-1.457	-1.457	-1.457	-1.457	-1.457	-1.457	-1.457	-1.457
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00
	Vento 180	N	9.014	9.014	9.014	9.014	9.014	9.014	9.014	9.014	9.014
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	-0.01	0.00
	Multidão (Passeio)	N	0.672	0.672	0.672	0.672	0.672	0.672	0.672	0.672	0.672
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	2.158	2.158	2.158	2.158	2.158	2.158	2.158	2.158	2.158
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586	0.586

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N57/N97	Peso próprio	N	-1.877	-1.870	-1.863	-1.856	-1.850	-1.843	-1.836	-1.829	-1.822
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.367	-0.367	-0.367	-0.367	-0.367	-0.367	-0.367	-0.367	-0.367
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-2.734	-2.734	-2.734	-2.734	-2.734	-2.734	-2.734	-2.734	-2.734
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-1.500	-1.500	-1.500	-1.500	-1.500	-1.500	-1.500	-1.500	-1.500
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.679	-0.679	-0.679	-0.679	-0.679	-0.679	-0.679	-0.679	-0.679
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-6.184	-6.184	-6.184	-6.184	-6.184	-6.184	-6.184	-6.184	-6.184
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	6.801	6.801	6.801	6.801	6.801	6.801	6.801	6.801	6.801
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.474	-0.474	-0.474	-0.474	-0.474	-0.474	-0.474	-0.474	-0.474
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-1.565	-1.565	-1.565	-1.565	-1.565	-1.565	-1.565	-1.565	-1.565
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193	-0.193
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
	TB-450-A2	N	-0.237	-0.237	-0.237	-0.237	-0.237	-0.237	-0.237	-0.237	-0.237
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.383	-0.383	-0.383	-0.383	-0.383	-0.383	-0.383	-0.383	-0.383
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.604	-0.604	-0.604	-0.604	-0.604	-0.604	-0.604	-0.604	-0.604
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794	-0.794
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.933	-0.933	-0.933	-0.933	-0.933	-0.933	-0.933	-0.933	-0.933

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N56/N97	Peso próprio	N	-0.052	-0.046	-0.039	-0.032	-0.025	-0.018	-0.011	-0.005	0.002
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.517	-0.517	-0.517	-0.517	-0.517	-0.517	-0.517	-0.517	-0.517
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-3.824	-3.824	-3.824	-3.824	-3.824	-3.824	-3.824	-3.824	-3.824
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.092	-2.092	-2.092	-2.092	-2.092	-2.092	-2.092	-2.092	-2.092
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948	-0.948
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	7.926	7.926	7.926	7.926	7.926	7.926	7.926	7.926	7.926
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-7.340	-7.340	-7.340	-7.340	-7.340	-7.340	-7.340	-7.340	-7.340
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.171	-2.171	-2.171	-2.171	-2.171	-2.171	-2.171	-2.171	-2.171
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.366	-0.366	-0.366	-0.366	-0.366	-0.366	-0.366	-0.366	-0.366
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472	-0.472
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.656	-0.656	-0.656	-0.656	-0.656	-0.656	-0.656	-0.656	-0.656
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
	TB-450-D1	N	-0.808	-0.808	-0.808	-0.808	-0.808	-0.808	-0.808	-0.808	-0.808
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.823	-0.823	-0.823	-0.823	-0.823	-0.823	-0.823	-0.823	-0.823
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655	-0.655
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.967	-0.967	-0.967	-0.967	-0.967	-0.967	-0.967	-0.967	-0.967
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N58/N95	Peso próprio	N	-0.854	-0.847	-0.840	-0.834	-0.827	-0.820	-0.813	-0.806	-0.800
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.557	-0.557	-0.557	-0.557	-0.557	-0.557	-0.557	-0.557	-0.557
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-4.162	-4.162	-4.162	-4.162	-4.162	-4.162	-4.162	-4.162	-4.162
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.284	-2.284	-2.284	-2.284	-2.284	-2.284	-2.284	-2.284	-2.284
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-1.192	-1.192	-1.192	-1.192	-1.192	-1.192	-1.192	-1.192	-1.192
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	2.087	2.087	2.087	2.087	2.087	2.087	2.087	2.087	2.087
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.717	-0.717	-0.717	-0.717	-0.717	-0.717	-0.717	-0.717	-0.717
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.388	-2.388	-2.388	-2.388	-2.388	-2.388	-2.388	-2.388	-2.388
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232	-0.232
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.231	-1.231	-1.231	-1.231	-1.231	-1.231	-1.231	-1.231	-1.231
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.817	-0.817	-0.817	-0.817	-0.817	-0.817	-0.817	-0.817	-0.817
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.200	-1.200	-1.200	-1.200	-1.200	-1.200	-1.200	-1.200	-1.200
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.279	-0.279	-0.279	-0.279	-0.279	-0.279	-0.279	-0.279	-0.279
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444	-0.444
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N33/N95	Peso próprio	N	-0.481	-0.475	-0.468	-0.461	-0.454	-0.447	-0.440	-0.434	-0.427
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545	-0.545
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-4.075	-4.075	-4.075	-4.075	-4.075	-4.075	-4.075	-4.075	-4.075
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.233	-2.233	-2.233	-2.233	-2.233	-2.233	-2.233	-2.233	-2.233
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012	-1.012
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	4.638	4.638	4.638	4.638	4.638	4.638	4.638	4.638	4.638
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-3.842	-3.842	-3.842	-3.842	-3.842	-3.842	-3.842	-3.842	-3.842
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701	-0.701
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.340	-2.340	-2.340	-2.340	-2.340	-2.340	-2.340	-2.340	-2.340
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590	-0.590
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.451	-0.451	-0.451	-0.451	-0.451	-0.451	-0.451	-0.451	-0.451
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839	-0.839
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-1.021	-1.021	-1.021	-1.021	-1.021	-1.021	-1.021	-1.021	-1.021
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563	-0.563
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N55/N94	Peso próprio	N	-11.041	-11.035	-11.028	-11.021	-11.014	-11.007	-11.001	-10.994	-10.987
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.385	-1.385	-1.385	-1.385	-1.385	-1.385	-1.385	-1.385	-1.385
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-10.252	-10.252	-10.252	-10.252	-10.252	-10.252	-10.252	-10.252	-10.252
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-5.620	-5.620	-5.620	-5.620	-5.620	-5.620	-5.620	-5.620	-5.620
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-2.543	-2.543	-2.543	-2.543	-2.543	-2.543	-2.543	-2.543	-2.543
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-6.286	-6.286	-6.286	-6.286	-6.286	-6.286	-6.286	-6.286	-6.286
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	6.789	6.789	6.789	6.789	6.789	6.789	6.789	6.789	6.789
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.803	-1.803	-1.803	-1.803	-1.803	-1.803	-1.803	-1.803	-1.803
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-5.831	-5.831	-5.831	-5.831	-5.831	-5.831	-5.831	-5.831	-5.831
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.764	-0.764	-0.764	-0.764	-0.764	-0.764	-0.764	-0.764	-0.764
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.707	-1.707	-1.707	-1.707	-1.707	-1.707	-1.707	-1.707	-1.707
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.979	-1.979	-1.979	-1.979	-1.979	-1.979	-1.979	-1.979	-1.979
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-2.655	-2.655	-2.655	-2.655	-2.655	-2.655	-2.655	-2.655	-2.655
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-2.220	-2.220	-2.220	-2.220	-2.220	-2.220	-2.220	-2.220	-2.220
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-2.010	-2.010	-2.010	-2.010	-2.010	-2.010	-2.010	-2.010	-2.010
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-2.353	-2.353	-2.353	-2.353	-2.353	-2.353	-2.353	-2.353	-2.353
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.610	-0.610	-0.610	-0.610	-0.610	-0.610	-0.610	-0.610	-0.610
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.777	-0.777	-0.777	-0.777	-0.777	-0.777	-0.777	-0.777	-0.777
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N54/N94	Peso próprio	N	-11.670	-11.664	-11.657	-11.650	-11.643	-11.636	-11.629	-11.623	-11.616
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403	-1.403
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-10.352	-10.352	-10.352	-10.352	-10.352	-10.352	-10.352	-10.352	-10.352
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-5.669	-5.669	-5.669	-5.669	-5.669	-5.669	-5.669	-5.669	-5.669
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-2.568	-2.568	-2.568	-2.568	-2.568	-2.568	-2.568	-2.568	-2.568

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	8.370	8.370	8.370	8.370	8.370	8.370	8.370	8.370	8.370
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-8.076	-8.076	-8.076	-8.076	-8.076	-8.076	-8.076	-8.076	-8.076
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.833	-1.833	-1.833	-1.833	-1.833	-1.833	-1.833	-1.833	-1.833
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-5.870	-5.870	-5.870	-5.870	-5.870	-5.870	-5.870	-5.870	-5.870
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653	-0.653
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.581	-0.581	-0.581	-0.581	-0.581	-0.581	-0.581	-0.581	-0.581
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.889	-1.889	-1.889	-1.889	-1.889	-1.889	-1.889	-1.889	-1.889
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.761	-1.761	-1.761	-1.761	-1.761	-1.761	-1.761	-1.761	-1.761
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159	-2.159
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-2.485	-2.485	-2.485	-2.485	-2.485	-2.485	-2.485	-2.485	-2.485
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-2.236	-2.236	-2.236	-2.236	-2.236	-2.236	-2.236	-2.236	-2.236
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-1.009	-1.009	-1.009	-1.009	-1.009	-1.009	-1.009	-1.009	-1.009
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N53/N93	Peso próprio	N	-9.986	-9.979	-9.973	-9.966	-9.959	-9.952	-9.945	-9.939	-9.932
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785	-0.785
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-5.813	-5.813	-5.813	-5.813	-5.813	-5.813	-5.813	-5.813	-5.813
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
	Pavimentação	N	-3.187	-3.187	-3.187	-3.187	-3.187	-3.187	-3.187	-3.187	-3.187
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.442	-1.442	-1.442	-1.442	-1.442	-1.442	-1.442	-1.442	-1.442
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	4.532	4.532	4.532	4.532	4.532	4.532	4.532	4.532	4.532
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-4.007	-4.007	-4.007	-4.007	-4.007	-4.007	-4.007	-4.007	-4.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.021	-1.021	-1.021	-1.021	-1.021	-1.021	-1.021	-1.021	-1.021
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-3.309	-3.309	-3.309	-3.309	-3.309	-3.309	-3.309	-3.309	-3.309
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254	-0.254

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404	-0.404
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.011	-1.011	-1.011	-1.011	-1.011	-1.011	-1.011	-1.011	-1.011
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.371	-1.371	-1.371	-1.371	-1.371	-1.371	-1.371	-1.371	-1.371
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541	-1.541
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.193	-1.193	-1.193	-1.193	-1.193	-1.193	-1.193	-1.193	-1.193
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.351	-1.351	-1.351	-1.351	-1.351	-1.351	-1.351	-1.351	-1.351
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.306	-0.306	-0.306	-0.306	-0.306	-0.306	-0.306	-0.306	-0.306
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N52/N93	Peso próprio	N	-12.796	-12.789	-12.782	-12.776	-12.769	-12.762	-12.755	-12.748	-12.742
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-6.848	-6.848	-6.848	-6.848	-6.848	-6.848	-6.848	-6.848	-6.848
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-3.753	-3.753	-3.753	-3.753	-3.753	-3.753	-3.753	-3.753	-3.753
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.700	-1.700	-1.700	-1.700	-1.700	-1.700	-1.700	-1.700	-1.700
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-6.689	-6.689	-6.689	-6.689	-6.689	-6.689	-6.689	-6.689	-6.689
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	6.922	6.922	6.922	6.922	6.922	6.922	6.922	6.922	6.922
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.190	-1.190	-1.190	-1.190	-1.190	-1.190	-1.190	-1.190	-1.190
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
	Multidão - TB450	N	-3.916	-3.916	-3.916	-3.916	-3.916	-3.916	-3.916	-3.916	-3.916
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.712	-0.712	-0.712	-0.712	-0.712	-0.712	-0.712	-0.712	-0.712
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.593	-0.593	-0.593	-0.593	-0.593	-0.593	-0.593	-0.593	-0.593
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452	-1.452
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.164	-1.164	-1.164	-1.164	-1.164	-1.164	-1.164	-1.164	-1.164
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.545	-1.545	-1.545	-1.545	-1.545	-1.545	-1.545	-1.545	-1.545
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741	-1.741

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-1.317	-1.317	-1.317	-1.317	-1.317	-1.317	-1.317	-1.317	-1.317
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.042	-1.042	-1.042	-1.042	-1.042	-1.042	-1.042	-1.042	-1.042
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.455	-0.455	-0.455	-0.455	-0.455	-0.455	-0.455	-0.455	-0.455
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N41/N89	Peso próprio	N	-6.297	-6.292	-6.287	-6.282	-6.277	-6.273	-6.268	-6.263	-6.258
		Vy	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118
		Vz	-0.651	-0.508	-0.366	-0.223	-0.080	0.063	0.206	0.348	0.491
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		My	0.00	0.51	0.89	1.15	1.28	1.29	1.17	0.93	0.56
		Mz	0.00	0.10	0.21	0.31	0.41	0.52	0.62	0.72	0.83
	Guarda Corpo	N	-0.911	-0.911	-0.911	-0.911	-0.911	-0.911	-0.911	-0.911	-0.911
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
	Laje	N	-6.768	-6.768	-6.768	-6.768	-6.768	-6.768	-6.768	-6.768	-6.768
		Vy	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039
		Vz	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.06	0.13	0.19	0.25	0.32	0.38	0.44	0.50
		Mz	0.00	0.03	0.07	0.10	0.14	0.17	0.20	0.24	0.27
	Pavimentação	N	-3.707	-3.707	-3.707	-3.707	-3.707	-3.707	-3.707	-3.707	-3.707
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.03	0.07	0.10	0.14	0.17	0.21	0.24	0.28
		Mz	0.00	0.02	0.04	0.06	0.07	0.09	0.11	0.13	0.15
	Recapeamento	N	-1.679	-1.679	-1.679	-1.679	-1.679	-1.679	-1.679	-1.679	-1.679
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.13
		Mz	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07
	Vento 0	N	4.372	4.372	4.372	4.372	4.372	4.372	4.372	4.372	4.372
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	Vento 180	N	-3.809	-3.809	-3.809	-3.809	-3.809	-3.809	-3.809	-3.809	-3.809
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.181	-1.181	-1.181	-1.181	-1.181	-1.181	-1.181	-1.181	-1.181
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.06	0.07	0.08	0.09
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05
	Multidão - TB450	N	-3.862	-3.862	-3.862	-3.862	-3.862	-3.862	-3.862	-3.862	-3.862
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.04	0.07	0.11	0.14	0.18	0.22	0.25	0.29
		Mz	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.15
	TB-450-A1	N	-0.537	-0.537	-0.537	-0.537	-0.537	-0.537	-0.537	-0.537	-0.537
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
	TB-450-A2	N	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05
		Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
	TB-450-B1	N	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932	-1.932
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.11
		Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06
	TB-450-B2	N	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.03	0.04	0.06	0.07	0.08	0.10	0.11
		Mz	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
	TB-450-C1	N	-1.385	-1.385	-1.385	-1.385	-1.385	-1.385	-1.385	-1.385	-1.385
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.11
		Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06
	TB-450-C2	N	-1.788	-1.788	-1.788	-1.788	-1.788	-1.788	-1.788	-1.788	-1.788
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.12
		Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06
	TB-450-D1	N	-1.123	-1.123	-1.123	-1.123	-1.123	-1.123	-1.123	-1.123	-1.123
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	TB-450-D2	N	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920	-0.920
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	TB-450-E1	N	-0.368	-0.368	-0.368	-0.368	-0.368	-0.368	-0.368	-0.368	-0.368
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
	TB-450-E2	N	-0.366	-0.366	-0.366	-0.366	-0.366	-0.366	-0.366	-0.366	-0.366
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N40/N89	Peso próprio	N	-4.256	-4.251	-4.246	-4.241	-4.236	-4.231	-4.226	-4.221	-4.217
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.060	-1.060	-1.060	-1.060	-1.060	-1.060	-1.060	-1.060	-1.060
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-7.853	-7.853	-7.853	-7.853	-7.853	-7.853	-7.853	-7.853	-7.853
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-4.302	-4.302	-4.302	-4.302	-4.302	-4.302	-4.302	-4.302	-4.302
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.948	-1.948	-1.948	-1.948	-1.948	-1.948	-1.948	-1.948	-1.948
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016	-5.016
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	5.569	5.569	5.569	5.569	5.569	5.569	5.569	5.569	5.569

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.379	-1.379	-1.379	-1.379	-1.379	-1.379	-1.379	-1.379	-1.379
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-4.470	-4.470	-4.470	-4.470	-4.470	-4.470	-4.470	-4.470	-4.470
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-1.330	-1.330	-1.330	-1.330	-1.330	-1.330	-1.330	-1.330	-1.330
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-1.460	-1.460	-1.460	-1.460	-1.460	-1.460	-1.460	-1.460	-1.460
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.604	-1.604	-1.604	-1.604	-1.604	-1.604	-1.604	-1.604	-1.604
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.838	-1.838	-1.838	-1.838	-1.838	-1.838	-1.838	-1.838	-1.838
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430	-1.430
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.988	-0.988	-0.988	-0.988	-0.988	-0.988	-0.988	-0.988	-0.988
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.110	-1.110	-1.110	-1.110	-1.110	-1.110	-1.110	-1.110	-1.110
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246	-0.246
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N42/N90	Peso próprio	N	-3.378	-3.373	-3.368	-3.363	-3.358	-3.353	-3.348	-3.343	-3.339
		Vy	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108	-0.108
		Vz	-0.632	-0.489	-0.346	-0.203	-0.061	0.082	0.225	0.368	0.510
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.49	0.86	1.10	1.21	1.20	1.07	0.81	0.42
		Mz	0.00	0.09	0.19	0.28	0.38	0.47	0.57	0.66	0.75
	Guarda Corpo	N	-0.859	-0.859	-0.859	-0.859	-0.859	-0.859	-0.859	-0.859	-0.859
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05
		Mz	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02
	Laje	N	-6.389	-6.389	-6.389	-6.389	-6.389	-6.389	-6.389	-6.389	-6.389
		Vy	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vz	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048	-0.048
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.04	0.08	0.12	0.17	0.21	0.25	0.29	0.33
		Mz	0.00	0.02	0.05	0.07	0.09	0.11	0.14	0.16	0.18
	Pavimentação	N	-3.500	-3.500	-3.500	-3.500	-3.500	-3.500	-3.500	-3.500	-3.500
		Vy	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vz	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.05	0.07	0.09	0.11	0.14	0.16	0.18
		Mz	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.09	0.10
	Recapeamento	N	-1.586	-1.586	-1.586	-1.586	-1.586	-1.586	-1.586	-1.586	-1.586
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
	Vento 0	N	2.539	2.539	2.539	2.539	2.539	2.539	2.539	2.539	2.539
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 180	N	-1.677	-1.677	-1.677	-1.677	-1.677	-1.677	-1.677	-1.677	-1.677
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
	Multidão (Passeio)	N	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
	Multidão - TB450	N	-3.650	-3.650	-3.650	-3.650	-3.650	-3.650	-3.650	-3.650	-3.650
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.05	0.07	0.09	0.12	0.14	0.17	0.19
		Mz	0.00	0.01	0.03	0.04	0.05	0.06	0.08	0.09	0.10
	TB-450-A1	N	-0.611	-0.611	-0.611	-0.611	-0.611	-0.611	-0.611	-0.611	-0.611
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-A2	N	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-B1	N	-1.725	-1.725	-1.725	-1.725	-1.725	-1.725	-1.725	-1.725	-1.725

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	TB-450-B2	N	-1.257	-1.257	-1.257	-1.257	-1.257	-1.257	-1.257	-1.257	-1.257
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.07
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
	TB-450-C1	N	-1.330	-1.330	-1.330	-1.330	-1.330	-1.330	-1.330	-1.330	-1.330
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
	TB-450-C2	N	-1.794	-1.794	-1.794	-1.794	-1.794	-1.794	-1.794	-1.794	-1.794
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	TB-450-D1	N	-1.153	-1.153	-1.153	-1.153	-1.153	-1.153	-1.153	-1.153	-1.153
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
	TB-450-D2	N	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856	-0.856
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06
		Mz	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
	TB-450-E1	N	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
	TB-450-E2	N	-0.291	-0.291	-0.291	-0.291	-0.291	-0.291	-0.291	-0.291	-0.291
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N43/N90	Peso próprio	N	-4.334	-4.329	-4.324	-4.319	-4.314	-4.309	-4.304	-4.299	-4.294
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.005	-1.005	-1.005	-1.005	-1.005	-1.005	-1.005	-1.005	-1.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-7.474	-7.474	-7.474	-7.474	-7.474	-7.474	-7.474	-7.474	-7.474
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-4.098	-4.098	-4.098	-4.098	-4.098	-4.098	-4.098	-4.098	-4.098
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.855	-1.855	-1.855	-1.855	-1.855	-1.855	-1.855	-1.855	-1.855
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263	-3.263
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	3.994	3.994	3.994	3.994	3.994	3.994	3.994	3.994	3.994
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.302	-1.302	-1.302	-1.302	-1.302	-1.302	-1.302	-1.302	-1.302
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-4.269	-4.269	-4.269	-4.269	-4.269	-4.269	-4.269	-4.269	-4.269
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847	-0.847
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
	TB-450-A2	N	-0.967	-0.967	-0.967	-0.967	-0.967	-0.967	-0.967	-0.967	-0.967
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.463	-1.463	-1.463	-1.463	-1.463	-1.463	-1.463	-1.463	-1.463
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.763	-1.763	-1.763	-1.763	-1.763	-1.763	-1.763	-1.763	-1.763
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.881	-1.881	-1.881	-1.881	-1.881	-1.881	-1.881	-1.881	-1.881
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.578	-1.578	-1.578	-1.578	-1.578	-1.578	-1.578	-1.578	-1.578
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-1.024	-1.024	-1.024	-1.024	-1.024	-1.024	-1.024	-1.024	-1.024
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.214	-1.214	-1.214	-1.214	-1.214	-1.214	-1.214	-1.214	-1.214

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.300	-0.300	-0.300	-0.300	-0.300	-0.300	-0.300	-0.300	-0.300
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421	-0.421
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N47/N92	Peso próprio	N	-12.176	-12.171	-12.166	-12.161	-12.156	-12.151	-12.146	-12.141	-12.137
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-0.448	-0.305	-0.163	-0.020	0.123	0.266	0.409	0.551	0.694
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.33	0.53	0.61	0.57	0.40	0.10	-0.32	-0.86
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
	Guarda Corpo	N	-0.581	-0.581	-0.581	-0.581	-0.581	-0.581	-0.581	-0.581	-0.581
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-4.315	-4.315	-4.315	-4.315	-4.315	-4.315	-4.315	-4.315	-4.315
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
	Pavimentação	N	-2.363	-2.363	-2.363	-2.363	-2.363	-2.363	-2.363	-2.363	-2.363
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.071	-1.071	-1.071	-1.071	-1.071	-1.071	-1.071	-1.071	-1.071
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-3.134	-3.134	-3.134	-3.134	-3.134	-3.134	-3.134	-3.134	-3.134
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.753	-0.753	-0.753	-0.753	-0.753	-0.753	-0.753	-0.753	-0.753
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.463	-2.463	-2.463	-2.463	-2.463	-2.463	-2.463	-2.463	-2.463
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.037	-1.037	-1.037	-1.037	-1.037	-1.037	-1.037	-1.037	-1.037
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.593	-0.593	-0.593	-0.593	-0.593	-0.593	-0.593	-0.593	-0.593
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.813	-0.813	-0.813	-0.813	-0.813	-0.813	-0.813	-0.813	-0.813
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.303	-1.303	-1.303	-1.303	-1.303	-1.303	-1.303	-1.303	-1.303
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
	TB-450-D1	N	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201	-1.201
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.718	-0.718	-0.718	-0.718	-0.718	-0.718	-0.718	-0.718	-0.718
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.165	-0.165	-0.165	-0.165	-0.165	-0.165	-0.165	-0.165	-0.165
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N46/N92	Peso próprio	N	-13.377	-13.372	-13.367	-13.362	-13.357	-13.352	-13.347	-13.342	-13.338
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.557	-0.557	-0.557	-0.557	-0.557	-0.557	-0.557	-0.557	-0.557
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-4.187	-4.187	-4.187	-4.187	-4.187	-4.187	-4.187	-4.187	-4.187
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	5.818	5.818	5.818	5.818	5.818	5.818	5.818	5.818	5.818
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-5.388	-5.388	-5.388	-5.388	-5.388	-5.388	-5.388	-5.388	-5.388
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.414	-2.414	-2.414	-2.414	-2.414	-2.414	-2.414	-2.414	-2.414
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161	-0.161
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.815	-0.815	-0.815	-0.815	-0.815	-0.815	-0.815	-0.815	-0.815
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.352	-1.352	-1.352	-1.352	-1.352	-1.352	-1.352	-1.352	-1.352
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.609	-0.609	-0.609	-0.609	-0.609	-0.609	-0.609	-0.609	-0.609
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115	-1.115
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.265	-0.265	-0.265	-0.265	-0.265	-0.265	-0.265	-0.265	-0.265
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.391 m	0.782 m	0.978 m	1.369 m	1.760 m	2.151 m	2.346 m	2.737 m
N93/N92	Peso próprio	N	-13.625	-13.624	-13.623	-13.622	-13.621	-13.619	-13.618	-13.618	-13.616
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.391 m	0.782 m	0.978 m	1.369 m	1.760 m	2.151 m	2.346 m	2.737 m
		Vz	-0.047	0.025	0.098	0.134	0.206	0.279	0.351	0.387	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	-0.02	-0.04	-0.11	-0.20	-0.33	-0.40	-0.56
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-1.823	-1.823	-1.823	-1.823	-1.823	-1.823	-1.823	-1.823	-1.823
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-13.447	-13.447	-13.447	-13.447	-13.447	-13.447	-13.447	-13.447	-13.447
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-7.365	-7.365	-7.365	-7.365	-7.365	-7.365	-7.365	-7.365	-7.365
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-3.335	-3.335	-3.335	-3.335	-3.335	-3.335	-3.335	-3.335	-3.335
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.047
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05
		Mz	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	Vento 180	N	-1.700	-1.700	-1.700	-1.700	-1.700	-1.700	-1.700	-1.700	-1.700
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.391 m	0.782 m	0.978 m	1.369 m	1.760 m	2.151 m	2.346 m	2.737 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05	-0.05	-0.06
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01
	Multidão (Passeio)	N	-2.384	-2.384	-2.384	-2.384	-2.384	-2.384	-2.384	-2.384	-2.384
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.621	-7.621	-7.621	-7.621	-7.621	-7.621	-7.621	-7.621	-7.621
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040	-1.040
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-1.046	-1.046	-1.046	-1.046	-1.046	-1.046	-1.046	-1.046	-1.046
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-2.733	-2.733	-2.733	-2.733	-2.733	-2.733	-2.733	-2.733	-2.733
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-2.687	-2.687	-2.687	-2.687	-2.687	-2.687	-2.687	-2.687	-2.687
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.391 m	0.782 m	0.978 m	1.369 m	1.760 m	2.151 m	2.346 m	2.737 m
		My	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-2.998	-2.998	-2.998	-2.998	-2.998	-2.998	-2.998	-2.998	-2.998
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-3.100	-3.100	-3.100	-3.100	-3.100	-3.100	-3.100	-3.100	-3.100
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-2.588	-2.588	-2.588	-2.588	-2.588	-2.588	-2.588	-2.588	-2.588
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-2.505	-2.505	-2.505	-2.505	-2.505	-2.505	-2.505	-2.505	-2.505
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.818	-0.818	-0.818	-0.818	-0.818	-0.818	-0.818	-0.818	-0.818
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.922	-0.922	-0.922	-0.922	-0.922	-0.922	-0.922	-0.922	-0.922
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.391 m	0.782 m	0.978 m	1.369 m	1.760 m	2.151 m	2.346 m	2.737 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
N93/N49	Peso próprio	N	-1.377	-1.376	-1.375	-1.374	-1.373	-1.372	-1.371	-1.370	-1.369
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.64	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330	-0.330
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-2.467	-2.467	-2.467	-2.467	-2.467	-2.467	-2.467	-2.467	-2.467
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-1.356	-1.356	-1.356	-1.356	-1.356	-1.356	-1.356	-1.356	-1.356
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-4.063	-4.063	-4.063	-4.063	-4.063	-4.063	-4.063	-4.063	-4.063
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	4.314	4.314	4.314	4.314	4.314	4.314	4.314	4.314	4.314
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.424	-0.424	-0.424	-0.424	-0.424	-0.424	-0.424	-0.424	-0.424
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-1.418	-1.418	-1.418	-1.418	-1.418	-1.418	-1.418	-1.418	-1.418
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.284	-0.284	-0.284	-0.284	-0.284	-0.284	-0.284	-0.284	-0.284
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026	-0.026
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.895	-0.895	-0.895	-0.895	-0.895	-0.895	-0.895	-0.895	-0.895
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.334	-0.334	-0.334	-0.334	-0.334	-0.334	-0.334	-0.334	-0.334
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.379	-0.379	-0.379	-0.379	-0.379	-0.379	-0.379	-0.379	-0.379
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
N93/N48	Peso próprio	N	-1.949	-1.948	-1.947	-1.946	-1.945	-1.944	-1.943	-1.942	-1.941
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-0.681	-0.539	-0.396	-0.253	-0.110	0.032	0.175	0.318	0.461
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.77	-0.24	0.17	0.45	0.61	0.65	0.56	0.34	0.00
		Mz	0.13	0.11	0.10	0.08	0.06	0.05	0.03	0.02	0.00
	Guarda Corpo	N	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420	-0.420
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-3.084	-3.084	-3.084	-3.084	-3.084	-3.084	-3.084	-3.084	-3.084
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	Pavimentação	N	-1.686	-1.686	-1.686	-1.686	-1.686	-1.686	-1.686	-1.686	-1.686
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	Recapeamento	N	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765	-0.765

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Vento 0	N	3.248	3.248	3.248	3.248	3.248	3.248	3.248	3.248	3.248
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.07	-0.06	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	Vento 180	N	-2.713	-2.713	-2.713	-2.713	-2.713	-2.713	-2.713	-2.713	-2.713
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00
		Mz	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00
	Multidão (Passeio)	N	-0.552	-0.552	-0.552	-0.552	-0.552	-0.552	-0.552	-0.552	-0.552
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-1.740	-1.740	-1.740	-1.740	-1.740	-1.740	-1.740	-1.740	-1.740
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.04	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		Mz	-0.03	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	TB-450-A1	N	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816	-0.816
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
	TB-450-B2	N	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.041	-1.041	-1.041	-1.041	-1.041	-1.041	-1.041	-1.041	-1.041
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-D1	N	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031	-1.031
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.489	-0.489	-0.489	-0.489	-0.489	-0.489	-0.489	-0.489	-0.489
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002

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Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320	-0.320
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N45/N91	Peso próprio	N	-3.777	-3.772	-3.767	-3.763	-3.758	-3.753	-3.748	-3.743	-3.738
		Vy	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099
		Vz	-0.615	-0.472	-0.329	-0.187	-0.044	0.099	0.242	0.384	0.527
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.48	0.83	1.05	1.15	1.13	0.98	0.71	0.31
		Mz	0.00	0.09	0.17	0.26	0.35	0.43	0.52	0.60	0.69
	Guarda Corpo	N	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804	-0.804
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
	Laje	N	-5.978	-5.978	-5.978	-5.978	-5.978	-5.978	-5.978	-5.978	-5.978
		Vy	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Vz	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.02	0.04	0.05	0.07	0.09	0.11	0.12	0.14
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
	Pavimentação	N	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275	-3.275
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	Recapeamento	N	-1.483	-1.483	-1.483	-1.483	-1.483	-1.483	-1.483	-1.483	-1.483
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
	Vento 0	N	5.320	5.320	5.320	5.320	5.320	5.320	5.320	5.320	5.320
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	Vento 180	N	-4.565	-4.565	-4.565	-4.565	-4.565	-4.565	-4.565	-4.565	-4.565
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06	-0.07
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04
	Multidão (Passeio)	N	-1.042	-1.042	-1.042	-1.042	-1.042	-1.042	-1.042	-1.042	-1.042
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
	Multidão - TB450	N	-3.414	-3.414	-3.414	-3.414	-3.414	-3.414	-3.414	-3.414	-3.414
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011	-0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04
	TB-450-A1	N	-0.464	-0.464	-0.464	-0.464	-0.464	-0.464	-0.464	-0.464	-0.464

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274	-0.274
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.538	-1.538	-1.538	-1.538	-1.538	-1.538	-1.538	-1.538	-1.538
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
	TB-450-B2	N	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-C1	N	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
	TB-450-C2	N	-1.822	-1.822	-1.822	-1.822	-1.822	-1.822	-1.822	-1.822	-1.822
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
	TB-450-D1	N	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vz	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02
	TB-450-D2	N	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850	-0.850
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
	TB-450-E1	N	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	TB-450-E2	N	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N44/N91	Peso próprio	N	-4.391	-4.386	-4.381	-4.376	-4.371	-4.366	-4.361	-4.356	-4.351
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-6.349	-6.349	-6.349	-6.349	-6.349	-6.349	-6.349	-6.349	-6.349
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-3.480	-3.480	-3.480	-3.480	-3.480	-3.480	-3.480	-3.480	-3.480
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.575	-1.575	-1.575	-1.575	-1.575	-1.575	-1.575	-1.575	-1.575
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-4.959	-4.959	-4.959	-4.959	-4.959	-4.959	-4.959	-4.959	-4.959
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	5.524	5.524	5.524	5.524	5.524	5.524	5.524	5.524	5.524
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-1.118	-1.118	-1.118	-1.118	-1.118	-1.118	-1.118	-1.118	-1.118
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
	Multidão - TB450	N	-3.609	-3.609	-3.609	-3.609	-3.609	-3.609	-3.609	-3.609	-3.609
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.633	-0.633	-0.633	-0.633	-0.633	-0.633	-0.633	-0.633	-0.633
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.805	-0.805	-0.805	-0.805	-0.805	-0.805	-0.805	-0.805	-0.805
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.464	-1.464	-1.464	-1.464	-1.464	-1.464	-1.464	-1.464	-1.464
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.693	-1.693	-1.693	-1.693	-1.693	-1.693	-1.693	-1.693	-1.693
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.233	-1.233	-1.233	-1.233	-1.233	-1.233	-1.233	-1.233	-1.233

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.923	-0.923	-0.923	-0.923	-0.923	-0.923	-0.923	-0.923	-0.923
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.222	-1.222	-1.222	-1.222	-1.222	-1.222	-1.222	-1.222	-1.222
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.267	-0.267	-0.267	-0.267	-0.267	-0.267	-0.267	-0.267	-0.267
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423	-0.423
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N4/N198	Peso próprio	N	258.211	258.219	258.227
		Vy	-0.755	-0.755	-0.755
		Vz	-21.045	-20.595	-20.146

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-2.33	-2.33	-2.33
		My	43.75	46.35	48.90
		Mz	-2.33	-2.23	-2.14
	Guarda Corpo	N	73.666	73.666	73.666
		Vy	-0.031	-0.031	-0.031
		Vz	0.084	0.084	0.084
		Mt	-0.50	-0.50	-0.50
		My	13.80	13.79	13.78
		Mz	-0.16	-0.15	-0.15
	Laje	N	552.809	552.809	552.809
		Vy	-0.440	-0.440	-0.440
		Vz	2.532	2.532	2.532
		Mt	-5.49	-5.49	-5.49
		My	104.61	104.30	103.98
		Mz	-1.52	-1.46	-1.41
	Pavimentação	N	303.886	303.886	303.886
		Vy	-0.261	-0.261	-0.261
		Vz	1.153	1.153	1.153
		Mt	-3.12	-3.12	-3.12
		My	57.69	57.55	57.41
		Mz	-0.86	-0.83	-0.80
	Recapeamento	N	137.289	137.289	137.289
		Vy	-0.113	-0.113	-0.113
		Vz	0.652	0.652	0.652
		Mt	-1.40	-1.40	-1.40
		My	26.01	25.92	25.84
		Mz	-0.38	-0.37	-0.36
	Vento 0	N	-90.176	-90.176	-90.176
		Vy	-38.998	-38.998	-38.998
		Vz	-3.112	-3.112	-3.112
		Mt	34.40	34.40	34.40
		My	-36.61	-36.22	-35.83
		Mz	-62.42	-57.54	-52.67
	Vento 180	N	86.467	86.519	86.571

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	45.287	45.107	44.926
		Vz	3.193	3.192	3.191
		Mt	-35.88	-35.88	-35.88
		My	37.90	37.50	37.10
		Mz	67.04	61.39	55.76
	Multidão (Passeio)	N	94.354	94.354	94.354
		Vy	0.003	0.003	0.003
		Vz	-0.287	-0.287	-0.287
		Mt	-0.28	-0.28	-0.28
		My	17.45	17.48	17.52
		Mz	-0.13	-0.13	-0.13
	Multidão - TB450	N	318.551	318.551	318.551
		Vy	-0.366	-0.366	-0.366
		Vz	2.454	2.454	2.454
		Mt	-4.11	-4.11	-4.11
		My	60.89	60.58	60.27
		Mz	-1.06	-1.02	-0.97
	TB-450-A1	N	15.186	15.186	15.186
		Vy	-0.533	-0.533	-0.533
		Vz	-8.677	-8.677	-8.677
		Mt	0.39	0.39	0.39
		My	0.20	1.28	2.37
		Mz	-0.86	-0.80	-0.73
	TB-450-A2	N	39.089	39.089	39.089
		Vy	-0.484	-0.484	-0.484
		Vz	-20.702	-20.702	-20.702
		Mt	0.39	0.39	0.39
		My	1.04	3.63	6.21
		Mz	-0.85	-0.79	-0.73
	TB-450-B1	N	51.814	51.814	51.814
		Vy	-0.046	-0.046	-0.046
		Vz	-25.795	-25.795	-25.795
		Mt	-0.01	-0.01	-0.01
		My	2.38	5.60	8.83

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-0.35	-0.34	-0.34
	TB-450-B2	N	117.859	117.859	117.859
		Vy	0.266	0.266	0.266
		Vz	-60.879	-60.879	-60.879
		Mt	-0.01	-0.01	-0.01
		My	5.45	13.06	20.67
		Mz	0.41	0.37	0.34
	TB-450-C1	N	203.606	203.606	203.606
		Vy	-1.331	-1.331	-1.331
		Vz	-30.973	-30.973	-30.973
		Mt	-5.37	-5.37	-5.37
		My	53.11	56.98	60.85
		Mz	-2.24	-2.08	-1.91
	TB-450-C2	N	96.054	96.054	96.054
		Vy	-0.010	-0.010	-0.010
		Vz	-11.136	-11.136	-11.136
		Mt	-5.08	-5.08	-5.08
		My	25.48	26.87	28.26
		Mz	-0.49	-0.49	-0.49
	TB-450-D1	N	74.953	74.953	74.953
		Vy	0.231	0.231	0.231
		Vz	35.736	35.736	35.736
		Mt	0.00	0.00	0.00
		My	20.25	15.78	11.32
		Mz	0.61	0.58	0.55
	TB-450-D2	N	171.759	171.759	171.759
		Vy	-0.070	-0.070	-0.070
		Vz	84.806	84.806	84.806
		Mt	0.13	0.13	0.13
		My	47.81	37.21	26.61
		Mz	-0.44	-0.43	-0.42
	TB-450-E1	N	22.034	22.034	22.034
		Vy	0.211	0.211	0.211
		Vz	11.021	11.021	11.021

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-0.19	-0.19	-0.19
		My	1.96	0.59	-0.79
		Mz	0.26	0.23	0.20
	TB-450-E2	N	59.911	59.911	59.911
		Vy	0.626	0.626	0.626
		Vz	30.488	30.488	30.488
		Mt	-0.42	-0.42	-0.42
		My	5.14	1.33	-2.48
		Mz	0.90	0.82	0.74

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N198/N166	Peso próprio	N	263.406	263.418	263.429	263.441	263.452	263.464	263.475
		Vy	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270
		Vz	0.657	1.327	1.997	2.667	3.337	4.007	4.677
		Mt	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
		My	39.88	39.70	39.39	38.95	38.39	37.71	36.90
		Mz	-2.45	-2.21	-1.98	-1.74	-1.50	-1.27	-1.03
	Guarda Corpo	N	74.518	74.518	74.518	74.518	74.518	74.518	74.518
		Vy	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103
		Vz	1.572	1.572	1.572	1.572	1.572	1.572	1.572
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	11.41	11.12	10.83	10.53	10.24	9.95	9.65
		Mz	-0.22	-0.20	-0.18	-0.16	-0.14	-0.12	-0.10
	Laje	N	559.048	559.048	559.048	559.048	559.048	559.048	559.048
		Vy	-1.239	-1.239	-1.239	-1.239	-1.239	-1.239	-1.239
		Vz	12.982	12.982	12.982	12.982	12.982	12.982	12.982
		Mt	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49
		My	86.38	83.96	81.54	79.12	76.70	74.28	71.86
		Mz	-2.17	-1.93	-1.70	-1.47	-1.24	-1.01	-0.78
	Pavimentação	N	307.368	307.368	307.368	307.368	307.368	307.368	307.368
		Vy	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vz	7.108	7.108	7.108	7.108	7.108	7.108	7.108
		Mt	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
		My	47.65	46.33	45.00	43.68	42.35	41.03	39.70
		Mz	-1.23	-1.10	-0.96	-0.83	-0.70	-0.56	-0.43
	Recapeamento	N	138.838	138.838	138.838	138.838	138.838	138.838	138.838
		Vy	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317
		Vz	3.243	3.243	3.243	3.243	3.243	3.243	3.243
		Mt	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
		My	21.47	20.87	20.26	19.66	19.05	18.45	17.84
		Mz	-0.55	-0.49	-0.43	-0.37	-0.31	-0.25	-0.19
	Vento 0	N	-92.815	-92.815	-92.815	-92.815	-92.815	-92.815	-92.815
		Vy	-30.838	-30.838	-30.838	-30.838	-30.838	-30.838	-30.838
		Vz	-10.424	-10.424	-10.424	-10.424	-10.424	-10.424	-10.424
		Mt	2.74	2.74	2.74	2.74	2.74	2.74	2.74
		My	-30.10	-28.16	-26.21	-24.27	-22.33	-20.38	-18.44
		Mz	-48.03	-42.28	-36.53	-30.78	-25.03	-19.28	-13.53
	Vento 180	N	89.965	90.042	90.120	90.197	90.275	90.352	90.430
		Vy	34.024	33.756	33.487	33.218	32.949	32.681	32.412
		Vz	10.286	10.285	10.284	10.282	10.281	10.280	10.278
		Mt	-2.88	-2.88	-2.88	-2.88	-2.88	-2.88	-2.88
		My	30.32	28.40	26.49	24.57	22.65	20.73	18.82
		Mz	51.03	44.71	38.45	32.23	26.06	19.94	13.87
	Multidão (Passeio)	N	95.475	95.475	95.475	95.475	95.475	95.475	95.475
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	1.766	1.766	1.766	1.766	1.766	1.766	1.766
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	14.46	14.13	13.80	13.47	13.14	12.81	12.48
		Mz	-0.17	-0.16	-0.16	-0.15	-0.14	-0.14	-0.13
	Multidão - TB450	N	322.072	322.072	322.072	322.072	322.072	322.072	322.072
		Vy	-0.970	-0.970	-0.970	-0.970	-0.970	-0.970	-0.970
		Vz	8.117	8.117	8.117	8.117	8.117	8.117	8.117
		Mt	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37
		My	50.21	48.69	47.18	45.67	44.15	42.64	41.13
		Mz	-1.54	-1.36	-1.18	-1.00	-0.81	-0.63	-0.45

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
	TB-450-A1	N	17.194	17.194	17.194	17.194	17.194	17.194	17.194
		Vy	-0.439	-0.439	-0.439	-0.439	-0.439	-0.439	-0.439
		Vz	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-0.18	-0.17	-0.16	-0.15	-0.14	-0.13	-0.12
		Mz	-0.68	-0.60	-0.51	-0.43	-0.35	-0.27	-0.19
	TB-450-A2	N	43.927	43.927	43.927	43.927	43.927	43.927	43.927
		Vy	-0.387	-0.387	-0.387	-0.387	-0.387	-0.387	-0.387
		Vz	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	0.04	0.03	0.03	0.02	0.02	0.01	0.01
		Mz	-0.68	-0.60	-0.53	-0.46	-0.39	-0.31	-0.24
	TB-450-B1	N	57.750	57.750	57.750	57.750	57.750	57.750	57.750
		Vy	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vz	-0.406	-0.406	-0.406	-0.406	-0.406	-0.406	-0.406
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.21	1.28	1.36	1.43	1.51	1.59	1.66
		Mz	-0.34	-0.33	-0.32	-0.31	-0.31	-0.30	-0.29
	TB-450-B2	N	131.856	131.856	131.856	131.856	131.856	131.856	131.856
		Vy	0.270	0.270	0.270	0.270	0.270	0.270	0.270
		Vz	-0.996	-0.996	-0.996	-0.996	-0.996	-0.996	-0.996
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.72	2.91	3.09	3.28	3.46	3.65	3.83
		Mz	0.34	0.29	0.24	0.19	0.14	0.09	0.04
	TB-450-C1	N	211.819	211.819	211.819	211.819	211.819	211.819	211.819
		Vy	-2.103	-2.103	-2.103	-2.103	-2.103	-2.103	-2.103
		Vz	-2.942	-2.942	-2.942	-2.942	-2.942	-2.942	-2.942
		Mt	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
		My	45.86	46.41	46.96	47.50	48.05	48.60	49.15
		Mz	-2.65	-2.26	-1.87	-1.48	-1.08	-0.69	-0.30
	TB-450-C2	N	99.535	99.535	99.535	99.535	99.535	99.535	99.535
		Vy	-0.798	-0.798	-0.798	-0.798	-0.798	-0.798	-0.798
		Vz	0.438	0.438	0.438	0.438	0.438	0.438	0.438
		Mt	-0.45	-0.45	-0.45	-0.45	-0.45	-0.45	-0.45

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		My	21.73	21.65	21.57	21.48	21.40	21.32	21.24
		Mz	-1.19	-1.04	-0.89	-0.74	-0.59	-0.44	-0.30
	TB-450-D1	N	68.977	68.977	68.977	68.977	68.977	68.977	68.977
		Vy	0.238	0.238	0.238	0.238	0.238	0.238	0.238
		Vz	6.506	6.506	6.506	6.506	6.506	6.506	6.506
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.90	15.69	14.47	13.26	12.05	10.84	9.62
		Mz	0.55	0.50	0.46	0.42	0.37	0.33	0.28
	TB-450-D2	N	157.567	157.567	157.567	157.567	157.567	157.567	157.567
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	15.441	15.441	15.441	15.441	15.441	15.441	15.441
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	39.89	37.01	34.14	31.26	28.38	25.50	22.62
		Mz	-0.40	-0.39	-0.38	-0.37	-0.36	-0.35	-0.35
	TB-450-E1	N	19.811	19.811	19.811	19.811	19.811	19.811	19.811
		Vy	0.170	0.170	0.170	0.170	0.170	0.170	0.170
		Vz	0.857	0.857	0.857	0.857	0.857	0.857	0.857
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	1.69	1.53	1.37	1.21	1.05	0.89	0.73
		Mz	0.18	0.15	0.12	0.08	0.05	0.02	-0.01
	TB-450-E2	N	53.740	53.740	53.740	53.740	53.740	53.740	53.740
		Vy	0.527	0.527	0.527	0.527	0.527	0.527	0.527
		Vz	2.310	2.310	2.310	2.310	2.310	2.310	2.310
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	4.43	4.00	3.57	3.14	2.71	2.28	1.85
		Mz	0.69	0.59	0.49	0.39	0.29	0.19	0.10

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N166/N197	Peso próprio	N	263.475	263.487	263.498	263.510	263.521	263.533	263.544
		Vy	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270
		Vz	4.677	5.347	6.017	6.687	7.357	8.027	8.697

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mt	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
		My	36.90	35.96	34.90	33.72	32.41	30.98	29.42
		Mz	-1.03	-0.79	-0.56	-0.32	-0.08	0.15	0.39
	Guarda Corpo	N	74.518	74.518	74.518	74.518	74.518	74.518	74.518
		Vy	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103	-0.103
		Vz	1.572	1.572	1.572	1.572	1.572	1.572	1.572
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	9.65	9.36	9.07	8.77	8.48	8.19	7.89
		Mz	-0.10	-0.08	-0.06	-0.05	-0.03	-0.01	0.01
	Laje	N	559.048	559.048	559.048	559.048	559.048	559.048	559.048
		Vy	-1.239	-1.239	-1.239	-1.239	-1.239	-1.239	-1.239
		Vz	12.982	12.982	12.982	12.982	12.982	12.982	12.982
		Mt	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49
		My	71.86	69.44	67.02	64.60	62.18	59.76	57.34
		Mz	-0.78	-0.55	-0.32	-0.09	0.14	0.38	0.61
	Pavimentação	N	307.368	307.368	307.368	307.368	307.368	307.368	307.368
		Vy	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716
		Vz	7.108	7.108	7.108	7.108	7.108	7.108	7.108
		Mt	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
		My	39.70	38.38	37.05	35.73	34.40	33.08	31.75
		Mz	-0.43	-0.30	-0.16	-0.03	0.10	0.24	0.37
	Recapeamento	N	138.838	138.838	138.838	138.838	138.838	138.838	138.838
		Vy	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317
		Vz	3.243	3.243	3.243	3.243	3.243	3.243	3.243
		Mt	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
		My	17.84	17.24	16.63	16.03	15.43	14.82	14.22
		Mz	-0.19	-0.13	-0.08	-0.02	0.04	0.10	0.16
	Vento 0	N	-92.815	-92.815	-92.815	-92.815	-92.815	-92.815	-92.815
		Vy	-30.838	-30.838	-30.838	-30.838	-30.838	-30.838	-30.838
		Vz	-10.424	-10.424	-10.424	-10.424	-10.424	-10.424	-10.424
		Mt	2.74	2.74	2.74	2.74	2.74	2.74	2.74
		My	-18.44	-16.50	-14.55	-12.61	-10.67	-8.72	-6.78
		Mz	-13.53	-7.78	-2.03	3.72	9.47	15.22	20.97
	Vento 180	N	90.430	90.507	90.584	90.662	90.739	90.817	90.894

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vy	32.412	32.143	31.874	31.606	31.337	31.068	30.800
		Vz	10.278	10.277	10.276	10.274	10.273	10.272	10.270
		Mt	-2.88	-2.88	-2.88	-2.88	-2.88	-2.88	-2.88
		My	18.82	16.90	14.99	13.07	11.15	9.24	7.32
		Mz	13.87	7.85	1.88	-4.03	-9.90	-15.72	-21.49
	Multidão (Passeio)	N	95.475	95.475	95.475	95.475	95.475	95.475	95.475
		Vy	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033	-0.033
		Vz	1.766	1.766	1.766	1.766	1.766	1.766	1.766
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	12.48	12.15	11.82	11.49	11.16	10.83	10.50
		Mz	-0.13	-0.12	-0.12	-0.11	-0.11	-0.10	-0.09
	Multidão - TB450	N	322.072	322.072	322.072	322.072	322.072	322.072	322.072
		Vy	-0.970	-0.970	-0.970	-0.970	-0.970	-0.970	-0.970
		Vz	8.117	8.117	8.117	8.117	8.117	8.117	8.117
		Mt	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37
		My	41.13	39.61	38.10	36.59	35.07	33.56	32.05
		Mz	-0.45	-0.27	-0.09	0.09	0.27	0.45	0.63
	TB-450-A1	N	17.194	17.194	17.194	17.194	17.194	17.194	17.194
		Vy	-0.439	-0.439	-0.439	-0.439	-0.439	-0.439	-0.439
		Vz	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-0.12	-0.11	-0.10	-0.09	-0.08	-0.07	-0.07
		Mz	-0.19	-0.10	-0.02	0.06	0.14	0.22	0.30
	TB-450-A2	N	43.927	43.927	43.927	43.927	43.927	43.927	43.927
		Vy	-0.387	-0.387	-0.387	-0.387	-0.387	-0.387	-0.387
		Vz	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
		Mz	-0.24	-0.17	-0.10	-0.03	0.05	0.12	0.19
	TB-450-B1	N	57.750	57.750	57.750	57.750	57.750	57.750	57.750
		Vy	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vz	-0.406	-0.406	-0.406	-0.406	-0.406	-0.406	-0.406
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.66	1.74	1.81	1.89	1.96	2.04	2.12

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mz	-0.29	-0.28	-0.27	-0.27	-0.26	-0.25	-0.24
	TB-450-B2	N	131.856	131.856	131.856	131.856	131.856	131.856	131.856
		Vy	0.270	0.270	0.270	0.270	0.270	0.270	0.270
		Vz	-0.996	-0.996	-0.996	-0.996	-0.996	-0.996	-0.996
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.83	4.02	4.20	4.39	4.58	4.76	4.95
		Mz	0.04	-0.01	-0.06	-0.11	-0.16	-0.21	-0.26
	TB-450-C1	N	211.819	211.819	211.819	211.819	211.819	211.819	211.819
		Vy	-2.103	-2.103	-2.103	-2.103	-2.103	-2.103	-2.103
		Vz	-2.942	-2.942	-2.942	-2.942	-2.942	-2.942	-2.942
		Mt	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
		My	49.15	49.70	50.25	50.80	51.34	51.89	52.44
		Mz	-0.30	0.09	0.49	0.88	1.27	1.66	2.05
	TB-450-C2	N	99.535	99.535	99.535	99.535	99.535	99.535	99.535
		Vy	-0.798	-0.798	-0.798	-0.798	-0.798	-0.798	-0.798
		Vz	0.438	0.438	0.438	0.438	0.438	0.438	0.438
		Mt	-0.45	-0.45	-0.45	-0.45	-0.45	-0.45	-0.45
		My	21.24	21.16	21.08	20.99	20.91	20.83	20.75
		Mz	-0.30	-0.15	0.00	0.15	0.30	0.45	0.60
	TB-450-D1	N	68.977	68.977	68.977	68.977	68.977	68.977	68.977
		Vy	0.238	0.238	0.238	0.238	0.238	0.238	0.238
		Vz	6.506	6.506	6.506	6.506	6.506	6.506	6.506
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.62	8.41	7.20	5.98	4.77	3.56	2.34
		Mz	0.28	0.24	0.19	0.15	0.10	0.06	0.02
	TB-450-D2	N	157.567	157.567	157.567	157.567	157.567	157.567	157.567
		Vy	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vz	15.441	15.441	15.441	15.441	15.441	15.441	15.441
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	22.62	19.74	16.86	13.98	11.10	8.23	5.35
		Mz	-0.35	-0.34	-0.33	-0.32	-0.31	-0.30	-0.29
	TB-450-E1	N	19.811	19.811	19.811	19.811	19.811	19.811	19.811
		Vy	0.170	0.170	0.170	0.170	0.170	0.170	0.170
		Vz	0.857	0.857	0.857	0.857	0.857	0.857	0.857

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	0.73	0.57	0.41	0.26	0.10	-0.06	-0.22
		Mz	-0.01	-0.04	-0.07	-0.10	-0.14	-0.17	-0.20
	TB-450-E2	N	53.740	53.740	53.740	53.740	53.740	53.740	53.740
		Vy	0.527	0.527	0.527	0.527	0.527	0.527	0.527
		Vz	2.310	2.310	2.310	2.310	2.310	2.310	2.310
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	1.85	1.42	0.99	0.56	0.13	-0.30	-0.74
		Mz	0.10	0.00	-0.10	-0.20	-0.30	-0.40	-0.49

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N197/N164	Peso próprio	N	266.943	266.951	266.959
		Vy	-1.483	-1.483	-1.483
		Vz	-9.701	-9.252	-8.802
		Mt	0.17	0.17	0.17
		My	26.49	27.67	28.80
		Mz	0.43	0.61	0.80
	Guarda Corpo	N	75.744	75.744	75.744
		Vy	-0.107	-0.107	-0.107
		Vz	-6.940	-6.940	-6.940
		Mt	0.01	0.01	0.01
		My	7.16	8.03	8.90
		Mz	0.02	0.03	0.05
	Laje	N	568.077	568.077	568.077
		Vy	-1.296	-1.296	-1.296
		Vz	-49.518	-49.518	-49.518
		Mt	0.10	0.10	0.10
		My	51.88	58.07	64.26
		Mz	0.68	0.84	1.00
	Pavimentação	N	312.367	312.367	312.367
		Vy	-0.748	-0.748	-0.748

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-27.474	-27.474	-27.474
		Mt	0.06	0.06	0.06
		My	28.72	32.16	35.59
		Mz	0.41	0.51	0.60
	Recapeamento	N	141.078	141.078	141.078
		Vy	-0.331	-0.331	-0.331
		Vz	-12.264	-12.264	-12.264
		Mt	0.02	0.02	0.02
		My	12.86	14.39	15.93
		Mz	0.18	0.22	0.26
	Vento 0	N	-94.237	-94.237	-94.237
		Vy	-27.176	-27.176	-27.176
		Vz	-3.840	-3.840	-3.840
		Mt	-2.85	-2.85	-2.85
		My	-4.85	-4.37	-3.89
		Mz	20.40	23.80	27.20
	Vento 180	N	93.066	93.117	93.169
		Vy	24.608	24.428	24.248
		Vz	3.815	3.814	3.813
		Mt	2.75	2.75	2.75
		My	4.42	3.95	3.47
		Mz	-21.01	-24.07	-27.12
	Multidão (Passeio)	N	97.081	97.081	97.081
		Vy	-0.032	-0.032	-0.032
		Vz	-9.421	-9.421	-9.421
		Mt	0.01	0.01	0.01
		My	9.56	10.74	11.91
		Mz	-0.09	-0.09	-0.08
	Multidão - TB450	N	327.186	327.186	327.186
		Vy	-1.019	-1.019	-1.019
		Vz	-27.185	-27.185	-27.185
		Mt	0.07	0.07	0.07
		My	28.92	32.32	35.72
		Mz	0.69	0.81	0.94

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-A1	N	19.117	19.117	19.117
		Vy	-0.395	-0.395	-0.395
		Vz	-10.209	-10.209	-10.209
		Mt	-0.03	-0.03	-0.03
		My	-2.68	-1.41	-0.13
		Mz	0.30	0.35	0.40
	TB-450-A2	N	48.540	48.540	48.540
		Vy	-0.341	-0.341	-0.341
		Vz	-24.334	-24.334	-24.334
		Mt	-0.04	-0.04	-0.04
		My	-6.30	-3.26	-0.21
		Mz	0.18	0.23	0.27
	TB-450-B1	N	63.219	63.219	63.219
		Vy	-0.035	-0.035	-0.035
		Vz	-29.388	-29.388	-29.388
		Mt	0.00	0.00	0.00
		My	-5.25	-1.57	2.10
		Mz	-0.24	-0.24	-0.23
	TB-450-B2	N	144.748	144.748	144.748
		Vy	0.277	0.277	0.277
		Vz	-69.324	-69.324	-69.324
		Mt	-0.01	-0.01	-0.01
		My	-12.41	-3.74	4.92
		Mz	-0.26	-0.30	-0.33
	TB-450-C1	N	219.460	219.460	219.460
		Vy	-2.149	-2.149	-2.149
		Vz	-54.287	-54.287	-54.287
		Mt	0.07	0.07	0.07
		My	47.13	53.92	60.71
		Mz	2.12	2.39	2.66
	TB-450-C2	N	102.754	102.754	102.754
		Vy	-0.902	-0.902	-0.902
		Vz	-20.817	-20.817	-20.817
		Mt	0.12	0.12	0.12

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	18.37	20.97	23.58
		Mz	0.66	0.78	0.89
	TB-450-D1	N	64.378	64.378	64.378
		Vy	0.246	0.246	0.246
		Vz	29.290	29.290	29.290
		Mt	-0.01	-0.01	-0.01
		My	9.30	5.64	1.98
		Mz	0.02	-0.02	-0.05
	TB-450-D2	N	146.640	146.640	146.640
		Vy	-0.045	-0.045	-0.045
		Vz	69.606	69.606	69.606
		Mt	0.01	0.01	0.01
		My	21.85	13.15	4.45
		Mz	-0.29	-0.29	-0.28
	TB-450-E1	N	18.186	18.186	18.186
		Vy	0.153	0.153	0.153
		Vz	8.968	8.968	8.968
		Mt	0.01	0.01	0.01
		My	2.16	1.04	-0.08
		Mz	-0.20	-0.22	-0.24
	TB-450-E2	N	49.236	49.236	49.236
		Vy	0.483	0.483	0.483
		Vz	24.809	24.809	24.809
		Mt	0.04	0.04	0.04
		My	5.88	2.78	-0.32
		Mz	-0.49	-0.55	-0.61

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N164/N196	Peso próprio	N	266.489	266.497	266.504
		Vy	1.040	1.040	1.040
		Vz	8.529	8.978	9.427

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.17	0.17	0.17
		My	28.71	27.62	26.47
		Mz	0.78	0.65	0.52
	Guarda Corpo	N	75.897	75.897	75.897
		Vy	0.135	0.135	0.135
		Vz	6.874	6.874	6.874
		Mt	0.01	0.01	0.01
		My	8.83	7.97	7.11
		Mz	0.04	0.03	0.01
	Laje	N	568.683	568.683	568.683
		Vy	1.920	1.920	1.920
		Vz	48.236	48.236	48.236
		Mt	0.10	0.10	0.10
		My	63.76	57.73	51.70
		Mz	0.99	0.75	0.51
	Pavimentação	N	312.678	312.678	312.678
		Vy	1.117	1.117	1.117
		Vz	26.717	26.717	26.717
		Mt	0.06	0.06	0.06
		My	35.31	31.97	28.63
		Mz	0.59	0.45	0.31
	Recapeamento	N	141.219	141.219	141.219
		Vy	0.494	0.494	0.494
		Vz	11.930	11.930	11.930
		Mt	0.02	0.02	0.02
		My	15.80	14.31	12.82
		Mz	0.26	0.20	0.13
	Vento 0	N	-108.924	-108.924	-108.924
		Vy	25.658	25.658	25.658
		Vz	6.112	6.112	6.112
		Mt	-2.85	-2.85	-2.85
		My	-3.94	-4.70	-5.46
		Mz	26.93	23.72	20.51
	Vento 180	N	106.092	106.144	106.196

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-22.532	-22.712	-22.892
		Vz	-7.392	-7.393	-7.394
		Mt	2.75	2.75	2.75
		My	3.53	4.45	5.37
		Mz	-26.88	-24.05	-21.20
	Multidão (Passeio)	N	97.391	97.391	97.391
		Vy	-0.019	-0.019	-0.019
		Vz	9.505	9.505	9.505
		Mt	0.01	0.01	0.01
		My	11.82	10.63	9.44
		Mz	-0.08	-0.08	-0.08
	Multidão - TB450	N	327.241	327.241	327.241
		Vy	1.605	1.605	1.605
		Vz	26.010	26.010	26.010
		Mt	0.07	0.07	0.07
		My	35.44	32.19	28.94
		Mz	0.93	0.73	0.53
	TB-450-A1	N	18.915	18.915	18.915
		Vy	0.311	0.311	0.311
		Vz	-10.096	-10.096	-10.096
		Mt	-0.03	-0.03	-0.03
		My	-0.13	1.13	2.39
		Mz	0.39	0.35	0.32
	TB-450-A2	N	48.362	48.362	48.362
		Vy	0.284	0.284	0.284
		Vz	-24.174	-24.174	-24.174
		Mt	-0.04	-0.04	-0.04
		My	-0.22	2.81	5.83
		Mz	0.27	0.23	0.19
	TB-450-B1	N	63.366	63.366	63.366
		Vy	-0.579	-0.579	-0.579
		Vz	-29.355	-29.355	-29.355
		Mt	0.00	0.00	0.00
		My	2.10	5.77	9.44

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-0.23	-0.16	-0.09
	TB-450-B2	N	144.779	144.779	144.779
		Vy	0.191	0.191	0.191
		Vz	-69.210	-69.210	-69.210
		Mt	-0.01	-0.01	-0.01
		My	4.92	13.58	22.23
		Mz	-0.33	-0.36	-0.38
	TB-450-C1	N	219.519	219.519	219.519
		Vy	3.287	3.287	3.287
		Vz	51.792	51.792	51.792
		Mt	0.07	0.07	0.07
		My	60.16	53.69	47.21
		Mz	2.63	2.22	1.81
	TB-450-C2	N	102.632	102.632	102.632
		Vy	1.693	1.693	1.693
		Vz	18.017	18.017	18.017
		Mt	0.12	0.12	0.12
		My	23.38	21.12	18.87
		Mz	0.88	0.66	0.45
	TB-450-D1	N	64.467	64.467	64.467
		Vy	-0.067	-0.067	-0.067
		Vz	29.414	29.414	29.414
		Mt	-0.01	-0.01	-0.01
		My	1.97	-1.70	-5.38
		Mz	-0.04	-0.04	-0.03
	TB-450-D2	N	146.661	146.661	146.661
		Vy	-0.139	-0.139	-0.139
		Vz	69.592	69.592	69.592
		Mt	0.01	0.01	0.01
		My	4.45	-4.25	-12.95
		Mz	-0.28	-0.26	-0.24
	TB-450-E1	N	18.306	18.306	18.306
		Vy	-0.275	-0.275	-0.275
		Vz	8.960	8.960	8.960

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.01	0.01	0.01
		My	-0.08	-1.20	-2.32
		Mz	-0.23	-0.20	-0.16
	TB-450-E2	N	49.517	49.517	49.517
		Vy	-0.506	-0.506	-0.506
		Vz	24.707	24.707	24.707
		Mt	0.04	0.04	0.04
		My	-0.32	-3.41	-6.50
		Mz	-0.60	-0.54	-0.48

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N196/N165	Peso próprio	N	262.609	262.620	262.632	262.643	262.655	262.666	262.678
		Vy	1.044	1.044	1.044	1.044	1.044	1.044	1.044
		Vz	-8.350	-7.680	-7.010	-6.340	-5.670	-5.000	-4.330
		Mt	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		My	29.42	30.92	32.29	33.53	34.65	35.64	36.51
		Mz	0.51	0.32	0.13	-0.07	-0.26	-0.46	-0.65
	Guarda Corpo	N	74.395	74.395	74.395	74.395	74.395	74.395	74.395
		Vy	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vz	-1.550	-1.550	-1.550	-1.550	-1.550	-1.550	-1.550
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	7.91	8.20	8.49	8.77	9.06	9.35	9.64
		Mz	0.00	-0.02	-0.05	-0.07	-0.10	-0.12	-0.14
	Laje	N	557.838	557.838	557.838	557.838	557.838	557.838	557.838
		Vy	1.875	1.875	1.875	1.875	1.875	1.875	1.875
		Vz	-12.699	-12.699	-12.699	-12.699	-12.699	-12.699	-12.699
		Mt	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		My	57.40	59.77	62.14	64.51	66.87	69.24	71.61
		Mz	0.41	0.06	-0.29	-0.64	-0.99	-1.34	-1.68
	Pavimentação	N	306.686	306.686	306.686	306.686	306.686	306.686	306.686
		Vy	1.091	1.091	1.091	1.091	1.091	1.091	1.091
		Vz	-6.945	-6.945	-6.945	-6.945	-6.945	-6.945	-6.945

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mt	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		My	31.78	33.08	34.37	35.67	36.96	38.26	39.55
		Mz	0.26	0.05	-0.15	-0.35	-0.56	-0.76	-0.96
	Recapeamento	N	138.532	138.532	138.532	138.532	138.532	138.532	138.532
		Vy	0.482	0.482	0.482	0.482	0.482	0.482	0.482
		Vz	-3.170	-3.170	-3.170	-3.170	-3.170	-3.170	-3.170
		Mt	0.18	0.18	0.18	0.18	0.18	0.18	0.18
		My	14.23	14.82	15.41	16.00	16.60	17.19	17.78
		Mz	0.11	0.02	-0.07	-0.16	-0.25	-0.34	-0.43
	Vento 0	N	-109.056	-109.056	-109.056	-109.056	-109.056	-109.056	-109.056
		Vy	25.663	25.663	25.663	25.663	25.663	25.663	25.663
		Vz	5.613	5.613	5.613	5.613	5.613	5.613	5.613
		Mt	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60
		My	-5.06	-6.10	-7.15	-8.19	-9.24	-10.29	-11.33
		Mz	20.64	15.85	11.07	6.28	1.50	-3.29	-8.07
	Vento 180	N	107.147	107.225	107.302	107.379	107.457	107.534	107.612
		Vy	-25.563	-25.832	-26.101	-26.369	-26.638	-26.907	-27.176
		Vz	-6.687	-6.688	-6.690	-6.691	-6.692	-6.694	-6.695
		Mt	3.77	3.77	3.77	3.77	3.77	3.77	3.77
		My	3.93	5.18	6.43	7.68	8.92	10.17	11.42
		Mz	-21.25	-16.45	-11.61	-6.72	-1.78	3.21	8.26
	Multidão (Passeio)	N	95.379	95.379	95.379	95.379	95.379	95.379	95.379
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-1.762	-1.762	-1.762	-1.762	-1.762	-1.762	-1.762
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	10.53	10.86	11.19	11.51	11.84	12.17	12.50
		Mz	-0.08	-0.08	-0.07	-0.07	-0.07	-0.06	-0.06
	Multidão - TB450	N	321.217	321.217	321.217	321.217	321.217	321.217	321.217
		Vy	1.572	1.572	1.572	1.572	1.572	1.572	1.572
		Vz	-7.889	-7.889	-7.889	-7.889	-7.889	-7.889	-7.889
		Mt	0.52	0.52	0.52	0.52	0.52	0.52	0.52
		My	32.06	33.54	35.01	36.48	37.95	39.42	40.89
		Mz	0.46	0.16	-0.13	-0.42	-0.72	-1.01	-1.30
	TB-450-A1	N	21.074	21.074	21.074	21.074	21.074	21.074	21.074
		Vy	0.311	0.311	0.311	0.311	0.311	0.311	0.311

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vz	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	-0.40	-0.23	-0.07	0.09	0.25	0.41	0.57
		Mz	0.32	0.26	0.20	0.14	0.09	0.03	-0.03
	TB-450-A2	N	53.523	53.523	53.523	53.523	53.523	53.523	53.523
		Vy	0.284	0.284	0.284	0.284	0.284	0.284	0.284
		Vz	-2.112	-2.112	-2.112	-2.112	-2.112	-2.112	-2.112
		Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
		My	-0.84	-0.45	-0.05	0.34	0.73	1.13	1.52
		Mz	0.20	0.14	0.09	0.04	-0.02	-0.07	-0.12
	TB-450-B1	N	68.732	68.732	68.732	68.732	68.732	68.732	68.732
		Vy	-0.580	-0.580	-0.580	-0.580	-0.580	-0.580	-0.580
		Vz	-6.552	-6.552	-6.552	-6.552	-6.552	-6.552	-6.552
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	2.31	3.53	4.75	5.97	7.19	8.41	9.64
		Mz	-0.09	0.02	0.13	0.24	0.34	0.45	0.56
	TB-450-B2	N	157.446	157.446	157.446	157.446	157.446	157.446	157.446
		Vy	0.190	0.190	0.190	0.190	0.190	0.190	0.190
		Vz	-15.381	-15.381	-15.381	-15.381	-15.381	-15.381	-15.381
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	5.39	8.26	11.13	13.99	16.86	19.73	22.60
		Mz	-0.38	-0.42	-0.45	-0.49	-0.52	-0.56	-0.59
	TB-450-C1	N	210.746	210.746	210.746	210.746	210.746	210.746	210.746
		Vy	3.243	3.243	3.243	3.243	3.243	3.243	3.243
		Vz	3.305	3.305	3.305	3.305	3.305	3.305	3.305
		Mt	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		My	52.30	51.69	51.07	50.45	49.84	49.22	48.60
		Mz	1.72	1.11	0.51	-0.10	-0.70	-1.31	-1.91
	TB-450-C2	N	99.352	99.352	99.352	99.352	99.352	99.352	99.352
		Vy	1.655	1.655	1.655	1.655	1.655	1.655	1.655
		Vz	-0.272	-0.272	-0.272	-0.272	-0.272	-0.272	-0.272
		Mt	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		My	20.65	20.70	20.75	20.81	20.86	20.91	20.96
		Mz	0.37	0.06	-0.25	-0.56	-0.86	-1.17	-1.48
	TB-450-D1	N	58.010	58.010	58.010	58.010	58.010	58.010	58.010

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vy	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067
		Vz	0.389	0.389	0.389	0.389	0.389	0.389	0.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.23	2.15	2.08	2.01	1.94	1.86	1.79
		Mz	-0.03	-0.02	0.00	0.01	0.02	0.03	0.05
	TB-450-D2	N	131.397	131.397	131.397	131.397	131.397	131.397	131.397
		Vy	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140
		Vz	1.000	1.000	1.000	1.000	1.000	1.000	1.000
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	5.05	4.87	4.68	4.49	4.31	4.12	3.93
		Mz	-0.24	-0.22	-0.19	-0.17	-0.14	-0.11	-0.09
	TB-450-E1	N	16.287	16.287	16.287	16.287	16.287	16.287	16.287
		Vy	-0.275	-0.275	-0.275	-0.275	-0.275	-0.275	-0.275
		Vz	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	0.09	0.10	0.12	0.13	0.15	0.17	0.18
		Mz	-0.17	-0.11	-0.06	-0.01	0.04	0.09	0.14
	TB-450-E2	N	43.959	43.959	43.959	43.959	43.959	43.959	43.959
		Vy	-0.506	-0.506	-0.506	-0.506	-0.506	-0.506	-0.506
		Vz	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	0.13	0.16	0.20	0.23	0.26	0.30	0.33
		Mz	-0.48	-0.38	-0.29	-0.19	-0.10	0.00	0.09

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N165/N195	Peso próprio	N	262.678	262.689	262.701	262.712	262.724	262.735	262.747
		Vy	1.044	1.044	1.044	1.044	1.044	1.044	1.044
		Vz	-4.330	-3.660	-2.990	-2.320	-1.650	-0.980	-0.310
		Mt	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		My	36.51	37.26	37.88	38.37	38.74	38.99	39.11
		Mz	-0.65	-0.85	-1.04	-1.24	-1.43	-1.63	-1.82
	Guarda Corpo	N	74.395	74.395	74.395	74.395	74.395	74.395	74.395
		Vy	0.131	0.131	0.131	0.131	0.131	0.131	0.131

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vz	-1.550	-1.550	-1.550	-1.550	-1.550	-1.550	-1.550
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	9.64	9.93	10.22	10.51	10.80	11.09	11.38
		Mz	-0.14	-0.17	-0.19	-0.22	-0.24	-0.27	-0.29
	Laje	N	557.838	557.838	557.838	557.838	557.838	557.838	557.838
		Vy	1.875	1.875	1.875	1.875	1.875	1.875	1.875
		Vz	-12.699	-12.699	-12.699	-12.699	-12.699	-12.699	-12.699
		Mt	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		My	71.61	73.98	76.34	78.71	81.08	83.45	85.82
		Mz	-1.68	-2.03	-2.38	-2.73	-3.08	-3.43	-3.78
	Pavimentação	N	306.686	306.686	306.686	306.686	306.686	306.686	306.686
		Vy	1.091	1.091	1.091	1.091	1.091	1.091	1.091
		Vz	-6.945	-6.945	-6.945	-6.945	-6.945	-6.945	-6.945
		Mt	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		My	39.55	40.85	42.14	43.44	44.73	46.03	47.32
		Mz	-0.96	-1.17	-1.37	-1.57	-1.78	-1.98	-2.18
	Recapeamento	N	138.532	138.532	138.532	138.532	138.532	138.532	138.532
		Vy	0.482	0.482	0.482	0.482	0.482	0.482	0.482
		Vz	-3.170	-3.170	-3.170	-3.170	-3.170	-3.170	-3.170
		Mt	0.18	0.18	0.18	0.18	0.18	0.18	0.18
		My	17.78	18.37	18.96	19.55	20.14	20.73	21.32
		Mz	-0.43	-0.52	-0.61	-0.70	-0.79	-0.88	-0.97
	Vento 0	N	-109.056	-109.056	-109.056	-109.056	-109.056	-109.056	-109.056
		Vy	25.663	25.663	25.663	25.663	25.663	25.663	25.663
		Vz	5.613	5.613	5.613	5.613	5.613	5.613	5.613
		Mt	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60	-3.60
		My	-11.33	-12.38	-13.43	-14.47	-15.52	-16.57	-17.61
		Mz	-8.07	-12.86	-17.64	-22.43	-27.21	-32.00	-36.78
	Vento 180	N	107.612	107.689	107.767	107.844	107.922	107.999	108.076
		Vy	-27.176	-27.444	-27.713	-27.982	-28.251	-28.519	-28.788
		Vz	-6.695	-6.696	-6.698	-6.699	-6.700	-6.702	-6.703
		Mt	3.77	3.77	3.77	3.77	3.77	3.77	3.77
		My	11.42	12.67	13.92	15.17	16.42	17.66	18.91
		Mz	8.26	13.35	18.49	23.68	28.92	34.22	39.56
	Multidão (Passeio)	N	95.379	95.379	95.379	95.379	95.379	95.379	95.379

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-1.762	-1.762	-1.762	-1.762	-1.762	-1.762	-1.762
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	12.50	12.83	13.16	13.49	13.81	14.14	14.47
		Mz	-0.06	-0.05	-0.05	-0.04	-0.04	-0.04	-0.03
	Multidão - TB450	N	321.217	321.217	321.217	321.217	321.217	321.217	321.217
		Vy	1.572	1.572	1.572	1.572	1.572	1.572	1.572
		Vz	-7.889	-7.889	-7.889	-7.889	-7.889	-7.889	-7.889
		Mt	0.52	0.52	0.52	0.52	0.52	0.52	0.52
		My	40.89	42.36	43.83	45.30	46.77	48.25	49.72
		Mz	-1.30	-1.60	-1.89	-2.18	-2.47	-2.77	-3.06
	TB-450-A1	N	21.074	21.074	21.074	21.074	21.074	21.074	21.074
		Vy	0.311	0.311	0.311	0.311	0.311	0.311	0.311
		Vz	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	0.57	0.74	0.90	1.06	1.22	1.38	1.54
		Mz	-0.03	-0.09	-0.15	-0.20	-0.26	-0.32	-0.38
	TB-450-A2	N	53.523	53.523	53.523	53.523	53.523	53.523	53.523
		Vy	0.284	0.284	0.284	0.284	0.284	0.284	0.284
		Vz	-2.112	-2.112	-2.112	-2.112	-2.112	-2.112	-2.112
		Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
		My	1.52	1.92	2.31	2.70	3.10	3.49	3.88
		Mz	-0.12	-0.17	-0.23	-0.28	-0.33	-0.39	-0.44
	TB-450-B1	N	68.732	68.732	68.732	68.732	68.732	68.732	68.732
		Vy	-0.580	-0.580	-0.580	-0.580	-0.580	-0.580	-0.580
		Vz	-6.552	-6.552	-6.552	-6.552	-6.552	-6.552	-6.552
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	9.64	10.86	12.08	13.30	14.52	15.74	16.97
		Mz	0.56	0.67	0.78	0.88	0.99	1.10	1.21
	TB-450-B2	N	157.446	157.446	157.446	157.446	157.446	157.446	157.446
		Vy	0.190	0.190	0.190	0.190	0.190	0.190	0.190
		Vz	-15.381	-15.381	-15.381	-15.381	-15.381	-15.381	-15.381
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	22.60	25.47	28.33	31.20	34.07	36.94	39.80
		Mz	-0.59	-0.63	-0.66	-0.70	-0.73	-0.77	-0.80

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
	TB-450-C1	N	210.746	210.746	210.746	210.746	210.746	210.746	210.746
		Vy	3.243	3.243	3.243	3.243	3.243	3.243	3.243
		Vz	3.305	3.305	3.305	3.305	3.305	3.305	3.305
		Mt	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		My	48.60	47.99	47.37	46.76	46.14	45.52	44.91
		Mz	-1.91	-2.51	-3.12	-3.72	-4.33	-4.93	-5.54
	TB-450-C2	N	99.352	99.352	99.352	99.352	99.352	99.352	99.352
		Vy	1.655	1.655	1.655	1.655	1.655	1.655	1.655
		Vz	-0.272	-0.272	-0.272	-0.272	-0.272	-0.272	-0.272
		Mt	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		My	20.96	21.01	21.06	21.11	21.16	21.21	21.26
		Mz	-1.48	-1.79	-2.10	-2.41	-2.72	-3.03	-3.33
	TB-450-D1	N	58.010	58.010	58.010	58.010	58.010	58.010	58.010
		Vy	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067
		Vz	0.389	0.389	0.389	0.389	0.389	0.389	0.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.79	1.72	1.65	1.57	1.50	1.43	1.36
		Mz	0.05	0.06	0.07	0.08	0.10	0.11	0.12
	TB-450-D2	N	131.397	131.397	131.397	131.397	131.397	131.397	131.397
		Vy	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140
		Vz	1.000	1.000	1.000	1.000	1.000	1.000	1.000
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	3.93	3.75	3.56	3.37	3.19	3.00	2.81
		Mz	-0.09	-0.06	-0.04	-0.01	0.02	0.04	0.07
	TB-450-E1	N	16.287	16.287	16.287	16.287	16.287	16.287	16.287
		Vy	-0.275	-0.275	-0.275	-0.275	-0.275	-0.275	-0.275
		Vz	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	0.18	0.20	0.21	0.23	0.24	0.26	0.28
		Mz	0.14	0.19	0.24	0.30	0.35	0.40	0.45
	TB-450-E2	N	43.959	43.959	43.959	43.959	43.959	43.959	43.959
		Vy	-0.506	-0.506	-0.506	-0.506	-0.506	-0.506	-0.506
		Vz	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	0.33	0.37	0.40	0.43	0.47	0.50	0.53

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mz	0.09	0.18	0.28	0.37	0.47	0.56	0.66

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N195/N3	Peso próprio	N	258.332	258.340	258.348
		Vy	0.711	0.711	0.711
		Vz	20.318	20.767	21.216
		Mt	2.33	2.33	2.33
		My	47.79	45.22	42.59
		Mz	-1.57	-1.66	-1.75
	Guarda Corpo	N	73.602	73.602	73.602
		Vy	0.026	0.026	0.026
		Vz	-0.157	-0.157	-0.157
		Mt	0.72	0.72	0.72
		My	13.73	13.75	13.77
		Mz	-0.21	-0.22	-0.22
	Laje	N	552.200	552.200	552.200
		Vy	0.761	0.761	0.761
		Vz	-3.907	-3.907	-3.907
		Mt	7.71	7.71	7.71
		My	103.06	103.55	104.04
		Mz	-2.95	-3.05	-3.14
	Pavimentação	N	303.553	303.553	303.553
		Vy	0.460	0.460	0.460
		Vz	-1.963	-1.963	-1.963
		Mt	4.37	4.37	4.37
		My	56.86	57.11	57.35
		Mz	-1.71	-1.77	-1.83
	Recapeamento	N	137.136	137.136	137.136
		Vy	0.200	0.200	0.200
		Vz	-1.010	-1.010	-1.010
		Mt	1.96	1.96	1.96
		My	25.60	25.73	25.86

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-0.76	-0.78	-0.81
	Vento 0	N	-108.919	-108.919	-108.919
		Vy	31.323	31.323	31.323
		Vz	8.038	8.038	8.038
		Mt	-38.07	-38.07	-38.07
		My	-19.26	-20.27	-21.27
		Mz	-40.86	-44.77	-48.69
	Vento 180	N	108.743	108.795	108.847
		Vy	-37.340	-37.520	-37.700
		Vz	-9.384	-9.385	-9.386
		Mt	40.01	40.01	40.01
		My	19.57	20.74	21.92
		Mz	43.75	48.43	53.13
	Multidão (Passeio)	N	94.298	94.298	94.298
		Vy	-0.087	-0.087	-0.087
		Vz	0.369	0.369	0.369
		Mt	0.45	0.45	0.45
		My	17.58	17.53	17.48
		Mz	0.02	0.03	0.04
	Multidão - TB450	N	318.133	318.133	318.133
		Vy	0.750	0.750	0.750
		Vz	-3.704	-3.704	-3.704
		Mt	5.70	5.70	5.70
		My	59.43	59.89	60.36
		Mz	-2.45	-2.54	-2.63
	TB-450-A1	N	23.225	23.225	23.225
		Vy	0.376	0.376	0.376
		Vz	-12.448	-12.448	-12.448
		Mt	-0.43	-0.43	-0.43
		My	-1.23	0.32	1.88
		Mz	-0.42	-0.47	-0.52
	TB-450-A2	N	58.660	58.660	58.660
		Vy	0.353	0.353	0.353
		Vz	-29.788	-29.788	-29.788

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-0.47	-0.47	-0.47
		My	-2.74	0.98	4.71
		Mz	-0.49	-0.53	-0.58
	TB-450-B1	N	73.716	73.716	73.716
		Vy	-0.593	-0.593	-0.593
		Vz	-35.817	-35.817	-35.817
		Mt	0.09	0.09	0.09
		My	11.64	16.12	20.60
		Mz	1.22	1.29	1.37
	TB-450-B2	N	169.213	169.213	169.213
		Vy	0.204	0.204	0.204
		Vz	-84.432	-84.432	-84.432
		Mt	-0.10	-0.10	-0.10
		My	27.22	37.77	48.32
		Mz	-0.82	-0.84	-0.87
	TB-450-C1	N	204.007	204.007	204.007
		Vy	2.210	2.210	2.210
		Vz	28.462	28.462	28.462
		Mt	7.17	7.17	7.17
		My	58.95	55.39	51.83
		Mz	-4.76	-5.04	-5.32
	TB-450-C2	N	96.847	96.847	96.847
		Vy	0.625	0.625	0.625
		Vz	8.169	8.169	8.169
		Mt	7.14	7.14	7.14
		My	26.90	25.88	24.86
		Mz	-2.56	-2.64	-2.72
	TB-450-D1	N	52.920	52.920	52.920
		Vy	-0.061	-0.061	-0.061
		Vz	25.803	25.803	25.803
		Mt	-0.04	-0.04	-0.04
		My	8.80	5.58	2.35
		Mz	0.12	0.13	0.13
	TB-450-D2	N	119.364	119.364	119.364

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.163	-0.163	-0.163
		Vz	61.131	61.131	61.131
		Mt	0.16	0.16	0.16
		My	20.38	12.74	5.10
		Mz	0.09	0.11	0.13
	TB-450-E1	N	14.739	14.739	14.739
		Vy	-0.304	-0.304	-0.304
		Vz	7.624	7.624	7.624
		Mt	0.19	0.19	0.19
		My	2.54	1.59	0.64
		Mz	0.47	0.51	0.55
	TB-450-E2	N	39.702	39.702	39.702
		Vy	-0.579	-0.579	-0.579
		Vz	21.055	21.055	21.055
		Mt	0.49	0.49	0.49
		My	6.75	4.12	1.49
		Mz	0.71	0.78	0.85

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N11/N216	Peso próprio	N	257.355	257.363	257.371
		Vy	1.075	1.075	1.075
		Vz	-21.052	-20.603	-20.153
		Mt	2.56	2.56	2.56
		My	42.67	45.28	47.82
		Mz	2.77	2.63	2.50
	Guarda Corpo	N	72.823	72.823	72.823
		Vy	0.593	0.593	0.593
		Vz	0.218	0.218	0.218
		Mt	0.71	0.71	0.71
		My	13.70	13.67	13.65
		Mz	1.28	1.21	1.13

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Laje	N	543.546	543.546	543.546
		Vy	6.879	6.879	6.879
		Vz	4.372	4.372	4.372
		Mt	7.52	7.52	7.52
		My	103.44	102.90	102.35
		Mz	14.68	13.82	12.96
	Pavimentação	N	297.673	297.673	297.673
		Vy	3.918	3.918	3.918
		Vz	2.399	2.399	2.399
		Mt	4.26	4.26	4.26
		My	56.78	56.48	56.18
		Mz	8.36	7.87	7.38
	Recapeamento	N	134.934	134.934	134.934
		Vy	1.754	1.754	1.754
		Vz	1.125	1.125	1.125
		Mt	1.91	1.91	1.91
		My	25.71	25.57	25.42
		Mz	3.74	3.52	3.30
	Vento 0	N	86.463	86.411	86.359
		Vy	-16.519	-16.339	-16.158
		Vz	11.106	11.107	11.108
		Mt	44.98	44.98	44.98
		My	23.91	22.53	21.14
		Mz	-7.13	-5.08	-3.05
	Vento 180	N	-87.326	-87.326	-87.326
		Vy	11.475	11.475	11.475
		Vz	-9.910	-9.910	-9.910
		Mt	-43.17	-43.17	-43.17
		My	-23.39	-22.16	-20.92
		Mz	5.08	3.64	2.21
	Multidão (Passeio)	N	93.895	93.895	93.895
		Vy	0.243	0.243	0.243
		Vz	-0.291	-0.291	-0.291
		Mt	0.43	0.43	0.43

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	17.42	17.45	17.49
		Mz	0.57	0.54	0.51
	Multidão - TB450	N	311.603	311.603	311.603
		Vy	5.302	5.302	5.302
		Vz	3.973	3.973	3.973
		Mt	5.55	5.55	5.55
		My	59.97	59.47	58.97
		Mz	11.24	10.58	9.91
	TB-450-A1	N	39.615	39.615	39.615
		Vy	-0.363	-0.363	-0.363
		Vz	-20.905	-20.905	-20.905
		Mt	0.56	0.56	0.56
		My	1.69	4.30	6.92
		Mz	-0.41	-0.37	-0.32
	TB-450-A2	N	15.722	15.722	15.722
		Vy	-0.267	-0.267	-0.267
		Vz	-8.922	-8.922	-8.922
		Mt	0.51	0.51	0.51
		My	0.82	1.93	3.05
		Mz	-0.34	-0.31	-0.27
	TB-450-B1	N	117.857	117.857	117.857
		Vy	-0.282	-0.282	-0.282
		Vz	-60.798	-60.798	-60.798
		Mt	0.14	0.14	0.14
		My	5.50	13.10	20.70
		Mz	-0.46	-0.43	-0.39
	TB-450-B2	N	51.802	51.802	51.802
		Vy	0.147	0.147	0.147
		Vz	-25.841	-25.841	-25.841
		Mt	-0.06	-0.06	-0.06
		My	2.32	5.55	8.78
		Mz	0.40	0.39	0.37
	TB-450-C1	N	90.059	90.059	90.059
		Vy	6.459	6.459	6.459

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-8.388	-8.388	-8.388
		Mt	7.00	7.00	7.00
		My	24.49	25.54	26.58
		Mz	14.17	13.36	12.55
	TB-450-C2	N	195.043	195.043	195.043
		Vy	7.780	7.780	7.780
		Vz	-28.450	-28.450	-28.450
		Mt	6.98	6.98	6.98
		My	51.75	55.30	58.86
		Mz	15.58	14.61	13.64
	TB-450-D1	N	171.810	171.810	171.810
		Vy	-0.070	-0.070	-0.070
		Vz	84.801	84.801	84.801
		Mt	-0.11	-0.11	-0.11
		My	47.87	37.26	26.66
		Mz	0.11	0.12	0.12
	TB-450-D2	N	74.791	74.791	74.791
		Vy	-0.385	-0.385	-0.385
		Vz	35.829	35.829	35.829
		Mt	0.09	0.09	0.09
		My	20.32	15.84	11.36
		Mz	-0.88	-0.83	-0.78
	TB-450-E1	N	50.203	50.203	50.203
		Vy	0.018	0.018	0.018
		Vz	25.665	25.665	25.665
		Mt	-0.25	-0.25	-0.25
		My	4.01	0.80	-2.41
		Mz	-0.06	-0.06	-0.07
	TB-450-E2	N	24.238	24.238	24.238
		Vy	0.224	0.224	0.224
		Vz	12.442	12.442	12.442
		Mt	-0.50	-0.50	-0.50
		My	1.80	0.24	-1.31
		Mz	0.18	0.16	0.13

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N216/N71	Peso próprio	N	262.436	262.448	262.459	262.471	262.482	262.494	262.505
		Vy	1.631	1.631	1.631	1.631	1.631	1.631	1.631
		Vz	0.383	1.053	1.723	2.393	3.063	3.733	4.403
		Mt	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		My	39.06	38.93	38.67	38.29	37.78	37.14	36.38
		Mz	2.85	2.54	2.24	1.93	1.63	1.33	1.02
	Guarda Corpo	N	73.638	73.638	73.638	73.638	73.638	73.638	73.638
		Vy	0.695	0.695	0.695	0.695	0.695	0.695	0.695
		Vz	1.548	1.548	1.548	1.548	1.548	1.548	1.548
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	11.33	11.04	10.75	10.46	10.17	9.89	9.60
		Mz	1.23	1.10	0.97	0.84	0.71	0.58	0.45
	Laje	N	549.294	549.294	549.294	549.294	549.294	549.294	549.294
		Vy	7.983	7.983	7.983	7.983	7.983	7.983	7.983
		Vz	12.679	12.679	12.679	12.679	12.679	12.679	12.679
		Mt	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		My	85.40	83.03	80.67	78.31	75.94	73.58	71.21
		Mz	13.99	12.50	11.01	9.52	8.04	6.55	5.06
	Pavimentação	N	300.828	300.828	300.828	300.828	300.828	300.828	300.828
		Vy	4.545	4.545	4.545	4.545	4.545	4.545	4.545
		Vz	6.965	6.965	6.965	6.965	6.965	6.965	6.965
		Mt	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		My	46.87	45.57	44.28	42.98	41.68	40.38	39.08
		Mz	7.96	7.12	6.27	5.42	4.57	3.73	2.88
	Recapeamento	N	136.356	136.356	136.356	136.356	136.356	136.356	136.356
		Vy	2.035	2.035	2.035	2.035	2.035	2.035	2.035
		Vz	3.165	3.165	3.165	3.165	3.165	3.165	3.165
		Mt	0.18	0.18	0.18	0.18	0.18	0.18	0.18
		My	21.22	20.63	20.04	19.45	18.86	18.27	17.68
		Mz	3.56	3.18	2.81	2.43	2.05	1.67	1.29
	Vento 0	N	85.265	85.188	85.111	85.033	84.956	84.878	84.801
		Vy	-3.900	-3.632	-3.363	-3.094	-2.825	-2.557	-2.288

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vz	8.283	8.284	8.286	8.287	8.288	8.290	8.291
		Mt	3.79	3.79	3.79	3.79	3.79	3.79	3.79
		My	21.33	19.79	18.24	16.70	15.15	13.60	12.06
		Mz	2.91	3.61	4.26	4.87	5.42	5.92	6.37
	Vento 180	N	-87.034	-87.034	-87.034	-87.034	-87.034	-87.034	-87.034
		Vy	2.002	2.002	2.002	2.002	2.002	2.002	2.002
		Vz	-7.267	-7.267	-7.267	-7.267	-7.267	-7.267	-7.267
		Mt	-3.61	-3.61	-3.61	-3.61	-3.61	-3.61	-3.61
		My	-20.12	-18.77	-17.41	-16.06	-14.70	-13.35	-11.99
		Mz	-3.62	-4.00	-4.37	-4.74	-5.12	-5.49	-5.86
	Multidão (Passeio)	N	95.017	95.017	95.017	95.017	95.017	95.017	95.017
		Vy	0.304	0.304	0.304	0.304	0.304	0.304	0.304
		Vz	1.760	1.760	1.760	1.760	1.760	1.760	1.760
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	14.42	14.10	13.77	13.44	13.11	12.78	12.46
		Mz	0.57	0.51	0.46	0.40	0.34	0.29	0.23
	Multidão - TB450	N	314.719	314.719	314.719	314.719	314.719	314.719	314.719
		Vy	6.122	6.122	6.122	6.122	6.122	6.122	6.122
		Vz	7.876	7.876	7.876	7.876	7.876	7.876	7.876
		Mt	0.52	0.52	0.52	0.52	0.52	0.52	0.52
		My	49.44	47.97	46.50	45.03	43.57	42.10	40.63
		Mz	10.67	9.53	8.39	7.25	6.11	4.97	3.83
	TB-450-A1	N	44.560	44.560	44.560	44.560	44.560	44.560	44.560
		Vy	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244
		Vz	0.229	0.229	0.229	0.229	0.229	0.229	0.229
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	0.57	0.52	0.48	0.44	0.40	0.35	0.31
		Mz	-0.24	-0.20	-0.15	-0.11	-0.06	-0.02	0.03
	TB-450-A2	N	17.841	17.841	17.841	17.841	17.841	17.841	17.841
		Vy	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158
		Vz	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	0.33	0.30	0.28	0.25	0.23	0.20	0.18
		Mz	-0.21	-0.18	-0.15	-0.12	-0.09	-0.06	-0.03

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
	TB-450-B1	N	131.846	131.846	131.846	131.846	131.846	131.846	131.846
		Vy	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259
		Vz	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	2.75	2.93	3.11	3.29	3.47	3.64	3.82
		Mz	-0.37	-0.33	-0.28	-0.23	-0.18	-0.13	-0.08
	TB-450-B2	N	57.741	57.741	57.741	57.741	57.741	57.741	57.741
		Vy	0.126	0.126	0.126	0.126	0.126	0.126	0.126
		Vz	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.16	1.24	1.32	1.40	1.48	1.57	1.65
		Mz	0.36	0.34	0.31	0.29	0.26	0.24	0.22
	TB-450-C1	N	92.853	92.853	92.853	92.853	92.853	92.853	92.853
		Vy	7.534	7.534	7.534	7.534	7.534	7.534	7.534
		Vz	0.194	0.194	0.194	0.194	0.194	0.194	0.194
		Mt	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		My	20.93	20.90	20.86	20.83	20.79	20.75	20.72
		Mz	13.51	12.11	10.70	9.30	7.89	6.49	5.08
	TB-450-C2	N	202.586	202.586	202.586	202.586	202.586	202.586	202.586
		Vy	8.800	8.800	8.800	8.800	8.800	8.800	8.800
		Vz	-3.326	-3.326	-3.326	-3.326	-3.326	-3.326	-3.326
		Mt	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		My	44.74	45.36	45.98	46.60	47.22	47.84	48.46
		Mz	14.59	12.95	11.31	9.67	8.03	6.39	4.75
	TB-450-D1	N	157.623	157.623	157.623	157.623	157.623	157.623	157.623
		Vy	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096
		Vz	15.445	15.445	15.445	15.445	15.445	15.445	15.445
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	39.94	37.06	34.18	31.30	28.42	25.54	22.66
		Mz	0.11	0.13	0.14	0.16	0.18	0.20	0.22
	TB-450-D2	N	68.805	68.805	68.805	68.805	68.805	68.805	68.805
		Vy	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375
		Vz	6.548	6.548	6.548	6.548	6.548	6.548	6.548
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		My	16.95	15.73	14.51	13.29	12.07	10.85	9.63
		Mz	-0.77	-0.70	-0.63	-0.56	-0.49	-0.42	-0.35
	TB-450-E1	N	44.979	44.979	44.979	44.979	44.979	44.979	44.979
		Vy	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039
		Vz	1.850	1.850	1.850	1.850	1.850	1.850	1.850
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	3.47	3.13	2.78	2.44	2.09	1.75	1.40
		Mz	-0.10	-0.09	-0.09	-0.08	-0.07	-0.06	-0.06
	TB-450-E2	N	21.697	21.697	21.697	21.697	21.697	21.697	21.697
		Vy	0.111	0.111	0.111	0.111	0.111	0.111	0.111
		Vz	0.850	0.850	0.850	0.850	0.850	0.850	0.850
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	1.55	1.39	1.23	1.07	0.91	0.76	0.60
		Mz	0.06	0.04	0.02	0.00	-0.02	-0.04	-0.06

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N71/N215	Peso próprio	N	262.505	262.517	262.528	262.540	262.551	262.563	262.574
		Vy	1.631	1.631	1.631	1.631	1.631	1.631	1.631
		Vz	4.403	5.073	5.743	6.413	7.083	7.753	8.423
		Mt	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		My	36.38	35.50	34.49	33.36	32.10	30.72	29.21
		Mz	1.02	0.72	0.41	0.11	-0.20	-0.50	-0.80
	Guarda Corpo	N	73.638	73.638	73.638	73.638	73.638	73.638	73.638
		Vy	0.695	0.695	0.695	0.695	0.695	0.695	0.695
		Vz	1.548	1.548	1.548	1.548	1.548	1.548	1.548
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	9.60	9.31	9.02	8.73	8.44	8.15	7.87
		Mz	0.45	0.32	0.19	0.06	-0.07	-0.19	-0.32
	Laje	N	549.294	549.294	549.294	549.294	549.294	549.294	549.294
		Vy	7.983	7.983	7.983	7.983	7.983	7.983	7.983
		Vz	12.679	12.679	12.679	12.679	12.679	12.679	12.679

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mt	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		My	71.21	68.85	66.48	64.12	61.76	59.39	57.03
		Mz	5.06	3.57	2.08	0.59	-0.89	-2.38	-3.87
	Pavimentação	N	300.828	300.828	300.828	300.828	300.828	300.828	300.828
		Vy	4.545	4.545	4.545	4.545	4.545	4.545	4.545
		Vz	6.965	6.965	6.965	6.965	6.965	6.965	6.965
		Mt	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		My	39.08	37.78	36.48	35.18	33.89	32.59	31.29
		Mz	2.88	2.03	1.18	0.34	-0.51	-1.36	-2.21
	Recapeamento	N	136.356	136.356	136.356	136.356	136.356	136.356	136.356
		Vy	2.035	2.035	2.035	2.035	2.035	2.035	2.035
		Vz	3.165	3.165	3.165	3.165	3.165	3.165	3.165
		Mt	0.18	0.18	0.18	0.18	0.18	0.18	0.18
		My	17.68	17.09	16.50	15.91	15.32	14.73	14.14
		Mz	1.29	0.91	0.53	0.15	-0.23	-0.61	-0.99
	Vento 0	N	84.801	84.723	84.646	84.569	84.491	84.414	84.336
		Vy	-2.288	-2.019	-1.750	-1.482	-1.213	-0.944	-0.675
		Vz	8.291	8.292	8.294	8.295	8.296	8.298	8.299
		Mt	3.79	3.79	3.79	3.79	3.79	3.79	3.79
		My	12.06	10.51	8.97	7.42	5.87	4.33	2.78
		Mz	6.37	6.77	7.13	7.43	7.68	7.88	8.03
	Vento 180	N	-87.034	-87.034	-87.034	-87.034	-87.034	-87.034	-87.034
		Vy	2.002	2.002	2.002	2.002	2.002	2.002	2.002
		Vz	-7.267	-7.267	-7.267	-7.267	-7.267	-7.267	-7.267
		Mt	-3.61	-3.61	-3.61	-3.61	-3.61	-3.61	-3.61
		My	-11.99	-10.64	-9.28	-7.93	-6.57	-5.22	-3.86
		Mz	-5.86	-6.24	-6.61	-6.98	-7.36	-7.73	-8.10
	Multidão (Passeio)	N	95.017	95.017	95.017	95.017	95.017	95.017	95.017
		Vy	0.304	0.304	0.304	0.304	0.304	0.304	0.304
		Vz	1.760	1.760	1.760	1.760	1.760	1.760	1.760
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	12.46	12.13	11.80	11.47	11.14	10.81	10.49
		Mz	0.23	0.17	0.12	0.06	0.00	-0.05	-0.11
	Multidão - TB450	N	314.719	314.719	314.719	314.719	314.719	314.719	314.719

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vy	6.122	6.122	6.122	6.122	6.122	6.122	6.122
		Vz	7.876	7.876	7.876	7.876	7.876	7.876	7.876
		Mt	0.52	0.52	0.52	0.52	0.52	0.52	0.52
		My	40.63	39.16	37.69	36.22	34.75	33.29	31.82
		Mz	3.83	2.68	1.54	0.40	-0.74	-1.88	-3.02
	TB-450-A1	N	44.560	44.560	44.560	44.560	44.560	44.560	44.560
		Vy	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244	-0.244
		Vz	0.229	0.229	0.229	0.229	0.229	0.229	0.229
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	0.31	0.27	0.23	0.18	0.14	0.10	0.05
		Mz	0.03	0.07	0.12	0.17	0.21	0.26	0.30
	TB-450-A2	N	17.841	17.841	17.841	17.841	17.841	17.841	17.841
		Vy	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158
		Vz	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	0.18	0.16	0.13	0.11	0.08	0.06	0.03
		Mz	-0.03	0.00	0.03	0.06	0.09	0.12	0.15
	TB-450-B1	N	131.846	131.846	131.846	131.846	131.846	131.846	131.846
		Vy	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259	-0.259
		Vz	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955	-0.955
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	3.82	4.00	4.18	4.36	4.54	4.71	4.89
		Mz	-0.08	-0.04	0.01	0.06	0.11	0.16	0.21
	TB-450-B2	N	57.741	57.741	57.741	57.741	57.741	57.741	57.741
		Vy	0.126	0.126	0.126	0.126	0.126	0.126	0.126
		Vz	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435	-0.435
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.65	1.73	1.81	1.89	1.97	2.05	2.13
		Mz	0.22	0.19	0.17	0.15	0.12	0.10	0.08
	TB-450-C1	N	92.853	92.853	92.853	92.853	92.853	92.853	92.853
		Vy	7.534	7.534	7.534	7.534	7.534	7.534	7.534
		Vz	0.194	0.194	0.194	0.194	0.194	0.194	0.194
		Mt	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		My	20.72	20.68	20.64	20.61	20.57	20.54	20.50

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mz	5.08	3.68	2.27	0.87	-0.53	-1.94	-3.34
	TB-450-C2	N	202.586	202.586	202.586	202.586	202.586	202.586	202.586
		Vy	8.800	8.800	8.800	8.800	8.800	8.800	8.800
		Vz	-3.326	-3.326	-3.326	-3.326	-3.326	-3.326	-3.326
		Mt	0.65	0.65	0.65	0.65	0.65	0.65	0.65
		My	48.46	49.08	49.70	50.32	50.94	51.56	52.18
		Mz	4.75	3.11	1.47	-0.17	-1.81	-3.45	-5.10
	TB-450-D1	N	157.623	157.623	157.623	157.623	157.623	157.623	157.623
		Vy	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096	-0.096
		Vz	15.445	15.445	15.445	15.445	15.445	15.445	15.445
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	22.66	19.78	16.90	14.02	11.14	8.26	5.38
		Mz	0.22	0.23	0.25	0.27	0.29	0.31	0.32
	TB-450-D2	N	68.805	68.805	68.805	68.805	68.805	68.805	68.805
		Vy	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375	-0.375
		Vz	6.548	6.548	6.548	6.548	6.548	6.548	6.548
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	9.63	8.41	7.19	5.97	4.74	3.52	2.30
		Mz	-0.35	-0.28	-0.21	-0.14	-0.07	0.00	0.07
	TB-450-E1	N	44.979	44.979	44.979	44.979	44.979	44.979	44.979
		Vy	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039	-0.039
		Vz	1.850	1.850	1.850	1.850	1.850	1.850	1.850
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	1.40	1.06	0.71	0.37	0.02	-0.32	-0.67
		Mz	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01
	TB-450-E2	N	21.697	21.697	21.697	21.697	21.697	21.697	21.697
		Vy	0.111	0.111	0.111	0.111	0.111	0.111	0.111
		Vz	0.850	0.850	0.850	0.850	0.850	0.850	0.850
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	0.60	0.44	0.28	0.12	-0.04	-0.20	-0.35
		Mz	-0.06	-0.08	-0.10	-0.12	-0.15	-0.17	-0.19

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N215/N10	Peso próprio	N	265.866	265.874	265.882
		Vy	1.853	1.853	1.853
		Vz	-9.505	-9.056	-8.606
		Mt	-0.14	-0.14	-0.14
		My	26.44	27.60	28.70
		Mz	-0.84	-1.07	-1.30
	Guarda Corpo	N	74.836	74.836	74.836
		Vy	0.701	0.701	0.701
		Vz	-6.810	-6.810	-6.810
		Mt	0.01	0.01	0.01
		My	7.17	8.02	8.87
		Mz	-0.33	-0.42	-0.51
	Laje	N	557.929	557.929	557.929
		Vy	8.053	8.053	8.053
		Vz	-47.725	-47.725	-47.725
		Mt	0.07	0.07	0.07
		My	52.10	58.07	64.04
		Mz	-3.95	-4.95	-5.96
	Pavimentação	N	305.559	305.559	305.559
		Vy	4.586	4.586	4.586
		Vz	-26.131	-26.131	-26.131
		Mt	0.04	0.04	0.04
		My	28.59	31.86	35.13
		Mz	-2.25	-2.82	-3.39
	Recapeamento	N	138.496	138.496	138.496
		Vy	2.053	2.053	2.053
		Vz	-11.803	-11.803	-11.803
		Mt	0.02	0.02	0.02
		My	12.92	14.39	15.87
		Mz	-1.01	-1.26	-1.52
	Vento 0	N	82.653	82.601	82.549
		Vy	5.577	5.758	5.938
		Vz	12.103	12.104	12.105
		Mt	-2.27	-2.27	-2.27
		My	5.37	3.86	2.35

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	7.50	6.79	6.06
	Vento 180	N	-86.155	-86.155	-86.155
		Vy	-1.723	-1.723	-1.723
		Vz	-10.808	-10.808	-10.808
		Mt	2.39	2.39	2.39
		My	-5.45	-4.10	-2.75
		Mz	-7.49	-7.28	-7.06
	Multidão (Passeio)	N	96.624	96.624	96.624
		Vy	0.304	0.304	0.304
		Vz	-9.427	-9.427	-9.427
		Mt	0.01	0.01	0.01
		My	9.54	10.72	11.89
		Mz	-0.11	-0.15	-0.19
	Multidão - TB450	N	319.508	319.508	319.508
		Vy	6.179	6.179	6.179
		Vz	-25.702	-25.702	-25.702
		Mt	0.04	0.04	0.04
		My	29.13	32.35	35.56
		Mz	-3.08	-3.85	-4.62
	TB-450-A1	N	49.251	49.251	49.251
		Vy	-0.201	-0.201	-0.201
		Vz	-24.531	-24.531	-24.531
		Mt	-0.02	-0.02	-0.02
		My	-6.33	-3.26	-0.20
		Mz	0.30	0.32	0.35
	TB-450-A2	N	19.844	19.844	19.844
		Vy	-0.118	-0.118	-0.118
		Vz	-10.449	-10.449	-10.449
		Mt	-0.03	-0.03	-0.03
		My	-2.69	-1.38	-0.08
		Mz	0.14	0.16	0.17
	TB-450-B1	N	144.733	144.733	144.733
		Vy	-0.258	-0.258	-0.258
		Vz	-69.242	-69.242	-69.242

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.02	0.02	0.02
		My	-12.46	-3.80	4.85
		Mz	0.21	0.24	0.27
	TB-450-B2	N	63.213	63.213	63.213
		Vy	0.114	0.114	0.114
		Vz	-29.431	-29.431	-29.431
		Mt	0.01	0.01	0.01
		My	-5.23	-1.55	2.12
		Mz	0.08	0.06	0.05
	TB-450-C1	N	95.512	95.512	95.512
		Vy	7.650	7.650	7.650
		Vz	-18.161	-18.161	-18.161
		Mt	0.02	0.02	0.02
		My	18.90	21.17	23.44
		Mz	-3.42	-4.37	-5.33
	TB-450-C2	N	209.684	209.684	209.684
		Vy	8.863	8.863	8.863
		Vz	-51.805	-51.805	-51.805
		Mt	0.05	0.05	0.05
		My	47.62	54.09	60.57
		Mz	-5.17	-6.28	-7.38
	TB-450-D1	N	146.700	146.700	146.700
		Vy	-0.108	-0.108	-0.108
		Vz	69.585	69.585	69.585
		Mt	0.01	0.01	0.01
		My	21.89	13.19	4.49
		Mz	0.33	0.34	0.35
	TB-450-D2	N	64.199	64.199	64.199
		Vy	-0.378	-0.378	-0.378
		Vz	29.376	29.376	29.376
		Mt	0.01	0.01	0.01
		My	9.26	5.59	1.92
		Mz	0.07	0.12	0.16
	TB-450-E1	N	41.173	41.173	41.173

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.063	-0.063	-0.063
		Vz	20.857	20.857	20.857
		Mt	0.01	0.01	0.01
		My	4.92	2.32	-0.29
		Mz	-0.01	0.00	0.01
	TB-450-E2	N	19.857	19.857	19.857
		Vy	0.065	0.065	0.065
		Vz	10.042	10.042	10.042
		Mt	0.04	0.04	0.04
		My	2.35	1.09	-0.16
		Mz	-0.18	-0.19	-0.20

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N10/N214	Peso próprio	N	267.187	267.195	267.203
		Vy	-1.710	-1.710	-1.710
		Vz	8.667	9.116	9.565
		Mt	-0.14	-0.14	-0.14
		My	28.62	27.50	26.34
		Mz	-1.29	-1.07	-0.86
	Guarda Corpo	N	75.444	75.444	75.444
		Vy	-0.618	-0.618	-0.618
		Vz	6.989	6.989	6.989
		Mt	0.01	0.01	0.01
		My	8.80	7.93	7.05
		Mz	-0.50	-0.42	-0.34
	Laje	N	563.808	563.808	563.808
		Vy	-6.911	-6.911	-6.911
		Vz	49.892	49.892	49.892
		Mt	0.07	0.07	0.07
		My	63.53	57.30	51.06
		Mz	-5.88	-5.02	-4.15

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	308.867	308.867	308.867
		Vy	-3.923	-3.923	-3.923
		Vz	27.372	27.372	27.372
		Mt	0.04	0.04	0.04
		My	34.85	31.43	28.01
		Mz	-3.35	-2.86	-2.37
	Recapeamento	N	139.981	139.981	139.981
		Vy	-1.759	-1.759	-1.759
		Vz	12.357	12.357	12.357
		Mt	0.02	0.02	0.02
		My	15.75	14.20	12.66
		Mz	-1.50	-1.28	-1.06
	Vento 0	N	83.273	83.221	83.169
		Vy	1.917	2.098	2.278
		Vz	1.460	1.461	1.462
		Mt	-2.27	-2.27	-2.27
		My	2.40	2.22	2.04
		Mz	6.08	5.83	5.56
	Vento 180	N	-84.490	-84.490	-84.490
		Vy	-6.060	-6.060	-6.060
		Vz	-1.485	-1.485	-1.485
		Mt	2.39	2.39	2.39
		My	-2.80	-2.61	-2.43
		Mz	-7.04	-6.28	-5.52
	Multidão (Passeio)	N	97.124	97.124	97.124
		Vy	-0.310	-0.310	-0.310
		Vz	9.481	9.481	9.481
		Mt	0.01	0.01	0.01
		My	11.80	10.61	9.43
		Mz	-0.19	-0.15	-0.11
	Multidão - TB450	N	323.621	323.621	323.621
		Vy	-5.233	-5.233	-5.233
		Vz	27.405	27.405	27.405
		Mt	0.05	0.05	0.05

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	35.28	31.86	28.43
		Mz	-4.56	-3.91	-3.26
	TB-450-A1	N	49.119	49.119	49.119
		Vy	0.185	0.185	0.185
		Vz	-24.640	-24.640	-24.640
		Mt	-0.02	-0.02	-0.02
		My	-0.20	2.88	5.96
		Mz	0.34	0.32	0.30
	TB-450-A2	N	19.758	19.758	19.758
		Vy	0.108	0.108	0.108
		Vz	-10.519	-10.519	-10.519
		Mt	-0.03	-0.03	-0.03
		My	-0.08	1.24	2.55
		Mz	0.17	0.16	0.14
	TB-450-B1	N	144.742	144.742	144.742
		Vy	-0.136	-0.136	-0.136
		Vz	-69.258	-69.258	-69.258
		Mt	0.02	0.02	0.02
		My	4.85	13.51	22.17
		Mz	0.27	0.29	0.30
	TB-450-B2	N	63.126	63.126	63.126
		Vy	0.525	0.525	0.525
		Vz	-29.326	-29.326	-29.326
		Mt	0.01	0.01	0.01
		My	2.12	5.79	9.46
		Mz	0.05	-0.02	-0.08
	TB-450-C1	N	99.976	99.976	99.976
		Vy	-5.819	-5.819	-5.819
		Vz	20.633	20.633	20.633
		Mt	0.02	0.02	0.02
		My	23.24	20.66	18.08
		Mz	-5.26	-4.53	-3.81
	TB-450-C2	N	216.171	216.171	216.171
		Vy	-8.030	-8.030	-8.030

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	54.203	54.203	54.203
		Mt	0.05	0.05	0.05
		My	60.02	53.25	46.47
		Mz	-7.30	-6.29	-5.29
	TB-450-D1	N	146.620	146.620	146.620
		Vy	0.110	0.110	0.110
		Vz	69.668	69.668	69.668
		Mt	0.01	0.01	0.01
		My	4.49	-4.22	-12.93
		Mz	0.35	0.34	0.32
	TB-450-D2	N	64.045	64.045	64.045
		Vy	0.113	0.113	0.113
		Vz	29.381	29.381	29.381
		Mt	0.01	0.01	0.01
		My	1.92	-1.75	-5.43
		Mz	0.16	0.15	0.13
	TB-450-E1	N	41.197	41.197	41.197
		Vy	-0.054	-0.054	-0.054
		Vz	20.935	20.935	20.935
		Mt	0.01	0.01	0.01
		My	-0.29	-2.91	-5.52
		Mz	0.01	0.01	0.02
	TB-450-E2	N	19.942	19.942	19.942
		Vy	-0.119	-0.119	-0.119
		Vz	10.145	10.145	10.145
		Mt	0.04	0.04	0.04
		My	-0.16	-1.43	-2.70
		Mz	-0.19	-0.18	-0.16

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N214/N72	Peso próprio	N	263.204	263.216	263.227	263.239	263.250	263.262	263.273

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vy	-1.716	-1.716	-1.716	-1.716	-1.716	-1.716	-1.716
		Vz	-8.730	-8.060	-7.390	-6.720	-6.050	-5.380	-4.710
		Mt	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
		My	29.39	30.95	32.39	33.71	34.90	35.96	36.90
		Mz	-0.85	-0.53	-0.21	0.11	0.43	0.75	1.07
	Guarda Corpo	N	73.914	73.914	73.914	73.914	73.914	73.914	73.914
		Vy	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614
		Vz	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	7.89	8.18	8.47	8.76	9.06	9.35	9.64
		Mz	-0.34	-0.22	-0.11	0.01	0.12	0.24	0.35
	Laje	N	552.552	552.552	552.552	552.552	552.552	552.552	552.552
		Vy	-6.862	-6.862	-6.862	-6.862	-6.862	-6.862	-6.862
		Vz	-12.878	-12.878	-12.878	-12.878	-12.878	-12.878	-12.878
		Mt	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49
		My	57.27	59.67	62.07	64.47	66.87	69.27	71.67
		Mz	-4.07	-2.79	-1.51	-0.23	1.05	2.33	3.61
	Pavimentação	N	302.687	302.687	302.687	302.687	302.687	302.687	302.687
		Vy	-3.896	-3.896	-3.896	-3.896	-3.896	-3.896	-3.896
		Vz	-7.080	-7.080	-7.080	-7.080	-7.080	-7.080	-7.080
		Mt	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
		My	31.42	32.74	34.06	35.38	36.70	38.02	39.34
		Mz	-2.32	-1.59	-0.87	-0.14	0.59	1.31	2.04
	Recapeamento	N	137.188	137.188	137.188	137.188	137.188	137.188	137.188
		Vy	-1.747	-1.747	-1.747	-1.747	-1.747	-1.747	-1.747
		Vz	-3.217	-3.217	-3.217	-3.217	-3.217	-3.217	-3.217
		Mt	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
		My	14.20	14.80	15.40	16.00	16.60	17.20	17.80
		Mz	-1.04	-0.71	-0.39	-0.06	0.26	0.59	0.92
	Vento 0	N	80.017	79.940	79.863	79.785	79.708	79.630	79.553
		Vy	4.969	5.238	5.507	5.775	6.044	6.313	6.582
		Vz	-10.066	-10.065	-10.063	-10.062	-10.061	-10.059	-10.058
		Mt	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14
		My	5.27	7.15	9.02	10.90	12.77	14.65	16.53

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mz	5.58	4.63	3.63	2.58	1.48	0.32	-0.88
	Vento 180	N	-82.086	-82.086	-82.086	-82.086	-82.086	-82.086	-82.086
		Vy	-6.085	-6.085	-6.085	-6.085	-6.085	-6.085	-6.085
		Vz	10.243	10.243	10.243	10.243	10.243	10.243	10.243
		Mt	3.00	3.00	3.00	3.00	3.00	3.00	3.00
		My	-4.67	-6.58	-8.49	-10.40	-12.31	-14.22	-16.13
		Mz	-5.63	-4.49	-3.36	-2.23	-1.09	0.04	1.18
	Multidão (Passeio)	N	95.118	95.118	95.118	95.118	95.118	95.118	95.118
		Vy	-0.307	-0.307	-0.307	-0.307	-0.307	-0.307	-0.307
		Vz	-1.759	-1.759	-1.759	-1.759	-1.759	-1.759	-1.759
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	10.51	10.84	11.16	11.49	11.82	12.15	12.48
		Mz	-0.10	-0.05	0.01	0.07	0.12	0.18	0.24
	Multidão - TB450	N	317.251	317.251	317.251	317.251	317.251	317.251	317.251
		Vy	-5.197	-5.197	-5.197	-5.197	-5.197	-5.197	-5.197
		Vz	-8.042	-8.042	-8.042	-8.042	-8.042	-8.042	-8.042
		Mt	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37
		My	31.98	33.48	34.98	36.48	37.98	39.48	40.98
		Mz	-3.19	-2.22	-1.25	-0.29	0.68	1.65	2.62
	TB-450-A1	N	54.349	54.349	54.349	54.349	54.349	54.349	54.349
		Vy	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Vz	-2.288	-2.288	-2.288	-2.288	-2.288	-2.288	-2.288
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-0.80	-0.38	0.05	0.48	0.90	1.33	1.76
		Mz	0.30	0.27	0.23	0.20	0.16	0.13	0.09
	TB-450-A2	N	21.982	21.982	21.982	21.982	21.982	21.982	21.982
		Vy	0.109	0.109	0.109	0.109	0.109	0.109	0.109
		Vz	-1.023	-1.023	-1.023	-1.023	-1.023	-1.023	-1.023
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	-0.33	-0.14	0.05	0.24	0.43	0.62	0.81
		Mz	0.14	0.12	0.10	0.08	0.06	0.04	0.02
	TB-450-B1	N	157.421	157.421	157.421	157.421	157.421	157.421	157.421
		Vy	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135
		Vz	-15.367	-15.367	-15.367	-15.367	-15.367	-15.367	-15.367

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	5.32	8.19	11.05	13.92	16.78	19.65	22.51
		Mz	0.30	0.33	0.36	0.38	0.41	0.43	0.46
	TB-450-B2	N	68.491	68.491	68.491	68.491	68.491	68.491	68.491
		Vy	0.526	0.526	0.526	0.526	0.526	0.526	0.526
		Vz	-6.531	-6.531	-6.531	-6.531	-6.531	-6.531	-6.531
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	2.32	3.54	4.76	5.98	7.19	8.41	9.63
		Mz	-0.08	-0.18	-0.28	-0.38	-0.48	-0.57	-0.67
	TB-450-C1	N	96.072	96.072	96.072	96.072	96.072	96.072	96.072
		Vy	-5.779	-5.779	-5.779	-5.779	-5.779	-5.779	-5.779
		Vz	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434
		Mt	-0.45	-0.45	-0.45	-0.45	-0.45	-0.45	-0.45
		My	20.62	20.70	20.78	20.86	20.94	21.02	21.10
		Mz	-3.73	-2.66	-1.58	-0.50	0.58	1.65	2.73
	TB-450-C2	N	206.787	206.787	206.787	206.787	206.787	206.787	206.787
		Vy	-7.984	-7.984	-7.984	-7.984	-7.984	-7.984	-7.984
		Vz	2.997	2.997	2.997	2.997	2.997	2.997	2.997
		Mt	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
		My	52.31	51.75	51.19	50.63	50.07	49.51	48.95
		Mz	-5.21	-3.72	-2.23	-0.74	0.75	2.24	3.73
	TB-450-D1	N	131.350	131.350	131.350	131.350	131.350	131.350	131.350
		Vy	0.111	0.111	0.111	0.111	0.111	0.111	0.111
		Vz	1.044	1.044	1.044	1.044	1.044	1.044	1.044
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.08	4.88	4.69	4.49	4.30	4.10	3.91
		Mz	0.33	0.30	0.28	0.26	0.24	0.22	0.20
	TB-450-D2	N	57.592	57.592	57.592	57.592	57.592	57.592	57.592
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	0.381	0.381	0.381	0.381	0.381	0.381	0.381
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.18	2.11	2.04	1.97	1.90	1.82	1.75
		Mz	0.13	0.11	0.09	0.07	0.05	0.03	0.01
	TB-450-E1	N	36.513	36.513	36.513	36.513	36.513	36.513	36.513

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vy	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053
		Vz	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.06	0.07	0.08	0.09	0.10	0.10	0.11
		Mz	0.02	0.03	0.04	0.05	0.06	0.07	0.08
	TB-450-E2	N	17.682	17.682	17.682	17.682	17.682	17.682	17.682
		Vy	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118
		Vz	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03
		Mz	-0.16	-0.14	-0.12	-0.10	-0.08	-0.05	-0.03

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N72/N213	Peso próprio	N	263.273	263.285	263.296	263.308	263.319	263.331	263.342
		Vy	-1.716	-1.716	-1.716	-1.716	-1.716	-1.716	-1.716
		Vz	-4.710	-4.040	-3.370	-2.700	-2.030	-1.360	-0.690
		Mt	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
		My	36.90	37.72	38.41	38.98	39.42	39.73	39.92
		Mz	1.07	1.39	1.71	2.03	2.35	2.67	2.99
	Guarda Corpo	N	73.914	73.914	73.914	73.914	73.914	73.914	73.914
		Vy	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614	-0.614
		Vz	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562	-1.562
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	9.64	9.93	10.22	10.51	10.80	11.09	11.39
		Mz	0.35	0.46	0.58	0.69	0.81	0.92	1.04
	Laje	N	552.552	552.552	552.552	552.552	552.552	552.552	552.552
		Vy	-6.862	-6.862	-6.862	-6.862	-6.862	-6.862	-6.862
		Vz	-12.878	-12.878	-12.878	-12.878	-12.878	-12.878	-12.878
		Mt	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49
		My	71.67	74.07	76.48	78.88	81.28	83.68	86.08
		Mz	3.61	4.89	6.17	7.45	8.73	10.01	11.29

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
	Pavimentação	N	302.687	302.687	302.687	302.687	302.687	302.687	302.687
		Vy	-3.896	-3.896	-3.896	-3.896	-3.896	-3.896	-3.896
		Vz	-7.080	-7.080	-7.080	-7.080	-7.080	-7.080	-7.080
		Mt	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
		My	39.34	40.66	41.98	43.30	44.62	45.94	47.26
		Mz	2.04	2.76	3.49	4.22	4.94	5.67	6.40
	Recapeamento	N	137.188	137.188	137.188	137.188	137.188	137.188	137.188
		Vy	-1.747	-1.747	-1.747	-1.747	-1.747	-1.747	-1.747
		Vz	-3.217	-3.217	-3.217	-3.217	-3.217	-3.217	-3.217
		Mt	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
		My	17.80	18.40	19.00	19.59	20.19	20.79	21.39
		Mz	0.92	1.24	1.57	1.89	2.22	2.54	2.87
	Vento 0	N	79.553	79.475	79.398	79.320	79.243	79.166	79.088
		Vy	6.582	6.850	7.119	7.388	7.656	7.925	8.194
		Vz	-10.058	-10.057	-10.055	-10.054	-10.053	-10.051	-10.050
		Mt	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14	-3.14
		My	16.53	18.40	20.28	22.15	24.02	25.90	27.77
		Mz	-0.88	-2.13	-3.43	-4.78	-6.19	-7.64	-9.14
	Vento 180	N	-82.086	-82.086	-82.086	-82.086	-82.086	-82.086	-82.086
		Vy	-6.085	-6.085	-6.085	-6.085	-6.085	-6.085	-6.085
		Vz	10.243	10.243	10.243	10.243	10.243	10.243	10.243
		Mt	3.00	3.00	3.00	3.00	3.00	3.00	3.00
		My	-16.13	-18.04	-19.95	-21.86	-23.77	-25.68	-27.59
		Mz	1.18	2.31	3.45	4.58	5.72	6.85	7.99
	Multidão (Passeio)	N	95.118	95.118	95.118	95.118	95.118	95.118	95.118
		Vy	-0.307	-0.307	-0.307	-0.307	-0.307	-0.307	-0.307
		Vz	-1.759	-1.759	-1.759	-1.759	-1.759	-1.759	-1.759
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	12.48	12.80	13.13	13.46	13.79	14.12	14.44
		Mz	0.24	0.30	0.35	0.41	0.47	0.53	0.58
	Multidão - TB450	N	317.251	317.251	317.251	317.251	317.251	317.251	317.251
		Vy	-5.197	-5.197	-5.197	-5.197	-5.197	-5.197	-5.197
		Vz	-8.042	-8.042	-8.042	-8.042	-8.042	-8.042	-8.042
		Mt	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		My	40.98	42.48	43.98	45.48	46.97	48.47	49.97
		Mz	2.62	3.59	4.56	5.53	6.50	7.47	8.44
	TB-450-A1	N	54.349	54.349	54.349	54.349	54.349	54.349	54.349
		Vy	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Vz	-2.288	-2.288	-2.288	-2.288	-2.288	-2.288	-2.288
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	1.76	2.18	2.61	3.04	3.46	3.89	4.32
		Mz	0.09	0.06	0.02	-0.01	-0.05	-0.08	-0.12
	TB-450-A2	N	21.982	21.982	21.982	21.982	21.982	21.982	21.982
		Vy	0.109	0.109	0.109	0.109	0.109	0.109	0.109
		Vz	-1.023	-1.023	-1.023	-1.023	-1.023	-1.023	-1.023
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	0.81	1.01	1.20	1.39	1.58	1.77	1.96
		Mz	0.02	0.00	-0.02	-0.04	-0.06	-0.08	-0.10
	TB-450-B1	N	157.421	157.421	157.421	157.421	157.421	157.421	157.421
		Vy	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135
		Vz	-15.367	-15.367	-15.367	-15.367	-15.367	-15.367	-15.367
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	22.51	25.38	28.24	31.11	33.97	36.84	39.70
		Mz	0.46	0.48	0.51	0.53	0.56	0.58	0.61
	TB-450-B2	N	68.491	68.491	68.491	68.491	68.491	68.491	68.491
		Vy	0.526	0.526	0.526	0.526	0.526	0.526	0.526
		Vz	-6.531	-6.531	-6.531	-6.531	-6.531	-6.531	-6.531
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	9.63	10.85	12.06	13.28	14.50	15.72	16.93
		Mz	-0.67	-0.77	-0.87	-0.97	-1.06	-1.16	-1.26
	TB-450-C1	N	96.072	96.072	96.072	96.072	96.072	96.072	96.072
		Vy	-5.779	-5.779	-5.779	-5.779	-5.779	-5.779	-5.779
		Vz	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434	-0.434
		Mt	-0.45	-0.45	-0.45	-0.45	-0.45	-0.45	-0.45
		My	21.10	21.19	21.27	21.35	21.43	21.51	21.59
		Mz	2.73	3.81	4.89	5.96	7.04	8.12	9.20
	TB-450-C2	N	206.787	206.787	206.787	206.787	206.787	206.787	206.787
		Vy	-7.984	-7.984	-7.984	-7.984	-7.984	-7.984	-7.984

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Vz	2.997	2.997	2.997	2.997	2.997	2.997	2.997
		Mt	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
		My	48.95	48.40	47.84	47.28	46.72	46.16	45.60
		Mz	3.73	5.21	6.70	8.19	9.68	11.17	12.66
	TB-450-D1	N	131.350	131.350	131.350	131.350	131.350	131.350	131.350
		Vy	0.111	0.111	0.111	0.111	0.111	0.111	0.111
		Vz	1.044	1.044	1.044	1.044	1.044	1.044	1.044
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.91	3.72	3.52	3.33	3.13	2.94	2.74
		Mz	0.20	0.18	0.16	0.14	0.12	0.10	0.08
	TB-450-D2	N	57.592	57.592	57.592	57.592	57.592	57.592	57.592
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	0.381	0.381	0.381	0.381	0.381	0.381	0.381
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.75	1.68	1.61	1.54	1.47	1.40	1.33
		Mz	0.01	-0.01	-0.03	-0.06	-0.08	-0.10	-0.12
	TB-450-E1	N	36.513	36.513	36.513	36.513	36.513	36.513	36.513
		Vy	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053
		Vz	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.11	0.12	0.13	0.13	0.14	0.15	0.16
		Mz	0.08	0.09	0.10	0.11	0.12	0.13	0.14
	TB-450-E2	N	17.682	17.682	17.682	17.682	17.682	17.682	17.682
		Vy	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118	-0.118
		Vz	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-0.03	-0.04	-0.05	-0.05	-0.06	-0.06	-0.07
		Mz	-0.03	-0.01	0.01	0.03	0.06	0.08	0.10

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N213/N9	Peso próprio	N	258.870	258.878	258.886

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-1.420	-1.420	-1.420
		Vz	20.086	20.535	20.985
		Mt	-2.07	-2.07	-2.07
		My	48.76	46.22	43.62
		Mz	2.77	2.95	3.12
	Guarda Corpo	N	73.096	73.096	73.096
		Vy	-0.541	-0.541	-0.541
		Vz	-0.029	-0.029	-0.029
		Mt	-0.50	-0.50	-0.50
		My	13.77	13.78	13.78
		Mz	0.98	1.05	1.12
	Laje	N	546.547	546.547	546.547
		Vy	-6.069	-6.069	-6.069
		Vz	-2.112	-2.112	-2.112
		Mt	-5.49	-5.49	-5.49
		My	103.83	104.09	104.36
		Mz	10.69	11.45	12.21
	Pavimentação	N	299.380	299.380	299.380
		Vy	-3.445	-3.445	-3.445
		Vz	-1.106	-1.106	-1.106
		Mt	-3.12	-3.12	-3.12
		My	57.02	57.16	57.30
		Mz	6.06	6.49	6.92
	Recapeamento	N	135.697	135.697	135.697
		Vy	-1.545	-1.545	-1.545
		Vz	-0.548	-0.548	-0.548
		Mt	-1.40	-1.40	-1.40
		My	25.80	25.87	25.94
		Mz	2.72	2.91	3.10
	Vento 0	N	76.312	76.260	76.209
		Vy	15.780	15.960	16.140
		Vz	-4.518	-4.517	-4.517
		Mt	-33.31	-33.31	-33.31
		My	33.96	34.53	35.09

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-12.61	-14.59	-16.60
	Vento 180	N	-80.077	-80.077	-80.077
		Vy	-10.826	-10.826	-10.826
		Vz	4.542	4.542	4.542
		Mt	31.71	31.71	31.71
		My	-32.72	-33.29	-33.85
		Mz	11.37	12.73	14.08
	Multidão (Passeio)	N	94.043	94.043	94.043
		Vy	-0.267	-0.267	-0.267
		Vz	0.354	0.354	0.354
		Mt	-0.27	-0.27	-0.27
		My	17.54	17.49	17.45
		Mz	0.55	0.59	0.62
	Multidão - TB450	N	313.856	313.856	313.856
		Vy	-4.602	-4.602	-4.602
		Vz	-2.205	-2.205	-2.205
		Mt	-4.12	-4.12	-4.12
		My	60.12	60.40	60.67
		Mz	7.99	8.57	9.14
	TB-450-A1	N	59.552	59.552	59.552
		Vy	0.244	0.244	0.244
		Vz	-30.383	-30.383	-30.383
		Mt	-0.38	-0.38	-0.38
		My	-2.36	1.44	5.24
		Mz	-0.16	-0.19	-0.22
	TB-450-A2	N	24.195	24.195	24.195
		Vy	0.164	0.164	0.164
		Vz	-12.997	-12.997	-12.997
		Mt	-0.37	-0.37	-0.37
		My	-0.87	0.76	2.38
		Mz	-0.14	-0.16	-0.18
	TB-450-B1	N	169.202	169.202	169.202
		Vy	-0.151	-0.151	-0.151
		Vz	-84.477	-84.477	-84.477

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.12	0.12	0.12
		My	27.09	37.65	48.21
		Mz	0.62	0.64	0.66
	TB-450-B2	N	73.475	73.475	73.475
		Vy	0.537	0.537	0.537
		Vz	-35.787	-35.787	-35.787
		Mt	-0.08	-0.08	-0.08
		My	11.61	16.08	20.56
		Mz	-1.27	-1.34	-1.40
	TB-450-C1	N	93.016	93.016	93.016
		Vy	-5.057	-5.057	-5.057
		Vz	10.908	10.908	10.908
		Mt	-5.00	-5.00	-5.00
		My	28.00	26.63	25.27
		Mz	8.66	9.29	9.92
	TB-450-C2	N	199.495	199.495	199.495
		Vy	-7.210	-7.210	-7.210
		Vz	31.012	31.012	31.012
		Mt	-5.38	-5.38	-5.38
		My	60.44	56.56	52.69
		Mz	12.08	12.98	13.88
	TB-450-D1	N	119.313	119.313	119.313
		Vy	0.116	0.116	0.116
		Vz	61.213	61.213	61.213
		Mt	-0.03	-0.03	-0.03
		My	20.31	12.66	5.01
		Mz	0.07	0.06	0.05
	TB-450-D2	N	52.506	52.506	52.506
		Vy	0.110	0.110	0.110
		Vz	25.777	25.777	25.777
		Mt	0.02	0.02	0.02
		My	8.76	5.54	2.32
		Mz	-0.12	-0.13	-0.14
	TB-450-E1	N	32.930	32.930	32.930

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.075	-0.075	-0.075
		Vz	17.877	17.877	17.877
		Mt	0.14	0.14	0.14
		My	5.37	3.13	0.90
		Mz	0.15	0.16	0.17
	TB-450-E2	N	15.956	15.956	15.956
		Vy	-0.170	-0.170	-0.170
		Vz	8.684	8.684	8.684
		Mt	0.35	0.35	0.35
		My	2.43	1.34	0.26
		Mz	0.14	0.16	0.18

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
N82/N167	Peso próprio	N	1.989	1.990	1.990	1.991	1.992	1.993	1.993
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.211	-0.169	-0.127	-0.084	-0.042	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.05	0.10	0.13	0.15	0.17	0.17
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.561	-0.561	-0.561	-0.561	-0.561	-0.561	-0.561
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-8.293	-8.293	-8.293	-8.293	-8.293	-8.293	-8.293
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
	Pavimentação	N	-4.771	-4.771	-4.771	-4.771	-4.771	-4.771	-4.771
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-2.136	-2.136	-2.136	-2.136	-2.136	-2.136	-2.136
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-12.011	-12.011	-12.011	-12.011	-12.011	-12.011	-12.011
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	10.449	10.449	10.449	10.449	10.449	10.449	10.449
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.022	-7.022	-7.022	-7.022	-7.022	-7.022	-7.022
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	3.765	3.765	3.765	3.765	3.765	3.765	3.765
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	3.738	3.738	3.738	3.738	3.738	3.738	3.738
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-5.540	-5.540	-5.540	-5.540	-5.540	-5.540	-5.540
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-5.273	-5.273	-5.273	-5.273	-5.273	-5.273	-5.273
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-7.960	-7.960	-7.960	-7.960	-7.960	-7.960	-7.960
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-8.613	-8.613	-8.613	-8.613	-8.613	-8.613	-8.613
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.452	0.452	0.452	0.452	0.452	0.452	0.452
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.896	0.896	0.896	0.896	0.896	0.896	0.896
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.438	0.438	0.438	0.438	0.438	0.438	0.438
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.727	0.727	0.727	0.727	0.727	0.727	0.727
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
N167/N81	Peso próprio	N	1.993	1.994	1.995	1.996	1.996	1.997	1.998

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.042	0.084	0.127	0.169	0.211	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.17	0.17	0.15	0.13	0.10	0.05	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.561	-0.561	-0.561	-0.561	-0.561	-0.561	-0.561
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-8.293	-8.293	-8.293	-8.293	-8.293	-8.293	-8.293
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-4.771	-4.771	-4.771	-4.771	-4.771	-4.771	-4.771
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-2.136	-2.136	-2.136	-2.136	-2.136	-2.136	-2.136
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-12.011	-12.011	-12.011	-12.011	-12.011	-12.011	-12.011
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	10.449	10.449	10.449	10.449	10.449	10.449	10.449
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-7.022	-7.022	-7.022	-7.022	-7.022	-7.022	-7.022
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	3.765	3.765	3.765	3.765	3.765	3.765	3.765
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	3.738	3.738	3.738	3.738	3.738	3.738	3.738
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-5.540	-5.540	-5.540	-5.540	-5.540	-5.540	-5.540
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-5.273	-5.273	-5.273	-5.273	-5.273	-5.273	-5.273
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-7.960	-7.960	-7.960	-7.960	-7.960	-7.960	-7.960
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-8.613	-8.613	-8.613	-8.613	-8.613	-8.613	-8.613
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.452	0.452	0.452	0.452	0.452	0.452	0.452
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.896	0.896	0.896	0.896	0.896	0.896	0.896
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.438	0.438	0.438	0.438	0.438	0.438	0.438

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.727	0.727	0.727	0.727	0.727	0.727	0.727
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
N83/N168	Peso próprio	N	2.400	2.400	2.401	2.402	2.403	2.403	2.404
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.247	-0.205	-0.162	-0.120	-0.078	-0.036	0.006
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.07	0.11	0.14	0.17	0.18	0.18
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-4.892	-4.892	-4.892	-4.892	-4.892	-4.892	-4.892
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.05	0.04	0.04	0.04	0.03	0.03	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
	Pavimentação	N	-2.875	-2.875	-2.875	-2.875	-2.875	-2.875	-2.875
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.03	0.02	0.02	0.02	0.02	0.02	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.273	-1.273	-1.273	-1.273	-1.273	-1.273	-1.273
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	10.795	10.795	10.795	10.795	10.795	10.795	10.795
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.01	0.00	0.00
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 180	N	-12.255	-12.255	-12.255	-12.255	-12.255	-12.255	-12.255
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00
		Mz	0.02	0.01	0.01	0.01	0.01	0.01	0.01
	Multidão (Passeio)	N	0.350	0.350	0.350	0.350	0.350	0.350	0.350
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-4.523	-4.523	-4.523	-4.523	-4.523	-4.523	-4.523
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		My	0.03	0.03	0.03	0.02	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.569	0.569	0.569	0.569	0.569	0.569	0.569
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.564	0.564	0.564	0.564	0.564	0.564	0.564
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.301	0.301	0.301	0.301	0.301	0.301	0.301
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.765	0.765	0.765	0.765	0.765	0.765	0.765
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-8.086	-8.086	-8.086	-8.086	-8.086	-8.086	-8.086
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-8.632	-8.632	-8.632	-8.632	-8.632	-8.632	-8.632
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-3.635	-3.635	-3.635	-3.635	-3.635	-3.635	-3.635
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.03	0.03	0.03	0.02	0.02	0.02
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-3.014	-3.014	-3.014	-3.014	-3.014	-3.014	-3.014
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.04	0.03	0.03	0.03	0.02	0.02	0.02
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	TB-450-E1	N	4.173	4.173	4.173	4.173	4.173	4.173	4.173
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	5.225	5.225	5.225	5.225	5.225	5.225	5.225
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
N168/N82	Peso próprio	N	2.404	2.405	2.406	2.406	2.407	2.408	2.408

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.006	0.049	0.091	0.133	0.175	0.217	0.260
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.18	0.18	0.16	0.13	0.10	0.05	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-4.892	-4.892	-4.892	-4.892	-4.892	-4.892	-4.892
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.02	0.01	0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.875	-2.875	-2.875	-2.875	-2.875	-2.875	-2.875
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.01	0.01	0.01	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.273	-1.273	-1.273	-1.273	-1.273	-1.273	-1.273
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.01	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	10.795	10.795	10.795	10.795	10.795	10.795	10.795
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00
	Vento 180	N	-12.255	-12.255	-12.255	-12.255	-12.255	-12.255	-12.255
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.350	0.350	0.350	0.350	0.350	0.350	0.350
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-4.523	-4.523	-4.523	-4.523	-4.523	-4.523	-4.523
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.011	0.011	0.011	0.011	0.011	0.011	0.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.01	0.01	0.01	0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.569	0.569	0.569	0.569	0.569	0.569	0.569
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.564	0.564	0.564	0.564	0.564	0.564	0.564
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.301	0.301	0.301	0.301	0.301	0.301	0.301
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.765	0.765	0.765	0.765	0.765	0.765	0.765
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-8.086	-8.086	-8.086	-8.086	-8.086	-8.086	-8.086
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-8.632	-8.632	-8.632	-8.632	-8.632	-8.632	-8.632
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-3.635	-3.635	-3.635	-3.635	-3.635	-3.635	-3.635
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.01	0.01	0.01	0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-3.014	-3.014	-3.014	-3.014	-3.014	-3.014	-3.014
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.02	0.02	0.01	0.01	0.01	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	4.173	4.173	4.173	4.173	4.173	4.173	4.173

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	5.225	5.225	5.225	5.225	5.225	5.225	5.225
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
N13/N67	Peso próprio	N	76.936	77.036	77.136	77.236	77.336	77.436	77.536
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	5.020	5.840	6.660	7.479	8.299	9.119	9.939
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.25	-2.68	-4.31	-6.12	-8.12	-10.31
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.03
	Guarda Corpo	N	20.541	20.541	20.541	20.541	20.541	20.541	20.541
		Vy	0.087	0.087	0.087	0.087	0.087	0.087	0.087
		Vz	3.033	3.033	3.033	3.033	3.033	3.033	3.033
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.70	-1.39	-2.09	-2.79	-3.48	-4.18
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.12
	Laje	N	152.521	152.521	152.521	152.521	152.521	152.521	152.521
		Vy	0.773	0.773	0.773	0.773	0.773	0.773	0.773
		Vz	22.523	22.523	22.523	22.523	22.523	22.523	22.523
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-5.18	-10.35	-15.53	-20.70	-25.88	-31.05
		Mz	0.00	-0.18	-0.36	-0.53	-0.71	-0.89	-1.07

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
	Pavimentação	N	83.403	83.403	83.403	83.403	83.403	83.403	83.403
		Vy	0.420	0.420	0.420	0.420	0.420	0.420	0.420
		Vz	12.336	12.336	12.336	12.336	12.336	12.336	12.336
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.83	-5.67	-8.50	-11.34	-14.17	-17.01
		Mz	0.00	-0.10	-0.19	-0.29	-0.39	-0.48	-0.58
	Recapeamento	N	37.842	37.842	37.842	37.842	37.842	37.842	37.842
		Vy	0.194	0.194	0.194	0.194	0.194	0.194	0.194
		Vz	5.590	5.590	5.590	5.590	5.590	5.590	5.590
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.28	-2.57	-3.85	-5.14	-6.42	-7.71
		Mz	0.00	-0.04	-0.09	-0.13	-0.18	-0.22	-0.27
	Vento 0	N	19.127	19.032	18.937	18.843	18.748	18.653	18.558
		Vy	-37.502	-37.171	-36.839	-36.508	-36.177	-35.846	-35.515
		Vz	1.746	1.757	1.769	1.781	1.792	1.804	1.815
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.40	-0.81	-1.22	-1.63	-2.04	-2.45
		Mz	0.00	8.58	17.08	25.51	33.86	42.13	50.33
	Vento 180	N	-18.417	-18.417	-18.417	-18.417	-18.417	-18.417	-18.417
		Vy	35.768	35.768	35.768	35.768	35.768	35.768	35.768
		Vz	-1.578	-1.578	-1.578	-1.578	-1.578	-1.578	-1.578
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.36	0.73	1.09	1.45	1.81	2.18
		Mz	0.00	-8.22	-16.44	-24.66	-32.88	-41.09	-49.31
	Multidão (Passeio)	N	26.658	26.658	26.658	26.658	26.658	26.658	26.658
		Vy	0.085	0.085	0.085	0.085	0.085	0.085	0.085
		Vz	3.935	3.935	3.935	3.935	3.935	3.935	3.935
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.90	-1.81	-2.71	-3.62	-4.52	-5.43
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.12
	Multidão - TB450	N	86.973	86.973	86.973	86.973	86.973	86.973	86.973
		Vy	0.513	0.513	0.513	0.513	0.513	0.513	0.513
		Vz	12.850	12.850	12.850	12.850	12.850	12.850	12.850
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
		My	0.00	-2.95	-5.91	-8.86	-11.81	-14.76	-17.72
		Mz	0.00	-0.12	-0.24	-0.35	-0.47	-0.59	-0.71
	TB-450-A1	N	7.903	7.903	7.903	7.903	7.903	7.903	7.903
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	2.098	2.098	2.098	2.098	2.098	2.098	2.098
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.48	-0.96	-1.45	-1.93	-2.41	-2.89
		Mz	0.00	-0.01	-0.02	-0.02	-0.03	-0.04	-0.05
	TB-450-A2	N	3.360	3.360	3.360	3.360	3.360	3.360	3.360
		Vy	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vz	0.904	0.904	0.904	0.904	0.904	0.904	0.904
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.21	-0.42	-0.62	-0.83	-1.04	-1.25
		Mz	0.00	-0.03	-0.07	-0.10	-0.13	-0.17	-0.20
	TB-450-B1	N	22.690	22.690	22.690	22.690	22.690	22.690	22.690
		Vy	0.563	0.563	0.563	0.563	0.563	0.563	0.563
		Vz	6.064	6.064	6.064	6.064	6.064	6.064	6.064
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.39	-2.79	-4.18	-5.57	-6.97	-8.36
		Mz	0.00	-0.13	-0.26	-0.39	-0.52	-0.65	-0.78
	TB-450-B2	N	9.904	9.904	9.904	9.904	9.904	9.904	9.904
		Vy	-0.539	-0.539	-0.539	-0.539	-0.539	-0.539	-0.539
		Vz	2.575	2.575	2.575	2.575	2.575	2.575	2.575
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.59	-1.18	-1.78	-2.37	-2.96	-3.55
		Mz	0.00	0.12	0.25	0.37	0.50	0.62	0.74
	TB-450-C1	N	16.474	16.474	16.474	16.474	16.474	16.474	16.474
		Vy	-0.747	-0.747	-0.747	-0.747	-0.747	-0.747	-0.747
		Vz	4.262	4.262	4.262	4.262	4.262	4.262	4.262
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.98	-1.96	-2.94	-3.92	-4.90	-5.88
		Mz	0.00	0.17	0.34	0.51	0.69	0.86	1.03
	TB-450-C2	N	37.727	37.727	37.727	37.727	37.727	37.727	37.727
		Vy	0.926	0.926	0.926	0.926	0.926	0.926	0.926

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
		Vz	10.008	10.008	10.008	10.008	10.008	10.008	10.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.30	-4.60	-6.90	-9.20	-11.50	-13.80
		Mz	0.00	-0.21	-0.43	-0.64	-0.85	-1.06	-1.28
	TB-450-D1	N	52.484	52.484	52.484	52.484	52.484	52.484	52.484
		Vy	0.667	0.667	0.667	0.667	0.667	0.667	0.667
		Vz	12.253	12.253	12.253	12.253	12.253	12.253	12.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.82	-5.63	-8.45	-11.26	-14.08	-16.89
		Mz	0.00	-0.15	-0.31	-0.46	-0.61	-0.77	-0.92
	TB-450-D2	N	22.575	22.575	22.575	22.575	22.575	22.575	22.575
		Vy	-0.667	-0.667	-0.667	-0.667	-0.667	-0.667	-0.667
		Vz	5.196	5.196	5.196	5.196	5.196	5.196	5.196
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.19	-2.39	-3.58	-4.78	-5.97	-7.16
		Mz	0.00	0.15	0.31	0.46	0.61	0.77	0.92
	TB-450-E1	N	34.730	34.730	34.730	34.730	34.730	34.730	34.730
		Vy	0.508	0.508	0.508	0.508	0.508	0.508	0.508
		Vz	-3.589	-3.589	-3.589	-3.589	-3.589	-3.589	-3.589
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.82	1.65	2.47	3.30	4.12	4.95
		Mz	0.00	-0.12	-0.23	-0.35	-0.47	-0.58	-0.70
	TB-450-E2	N	18.311	18.311	18.311	18.311	18.311	18.311	18.311
		Vy	0.080	0.080	0.080	0.080	0.080	0.080	0.080
		Vz	-2.577	-2.577	-2.577	-2.577	-2.577	-2.577	-2.577
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.59	1.18	1.78	2.37	2.96	3.55
		Mz	0.00	-0.02	-0.04	-0.06	-0.07	-0.09	-0.11

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N67/N223	Peso próprio	N	77.536	77.618	77.699	77.781	77.863	77.945	78.027

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	9.939	10.610	11.281	11.952	12.623	13.294	13.965
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.31	-12.24	-14.30	-16.49	-18.80	-21.24	-23.80
		Mz	0.03	0.04	0.04	0.05	0.05	0.06	0.06
	Guarda Corpo	N	20.541	20.541	20.541	20.541	20.541	20.541	20.541
		Vy	0.087	0.087	0.087	0.087	0.087	0.087	0.087
		Vz	3.033	3.033	3.033	3.033	3.033	3.033	3.033
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.18	-4.75	-5.32	-5.89	-6.46	-7.03	-7.61
		Mz	-0.12	-0.14	-0.15	-0.17	-0.18	-0.20	-0.22
	Laje	N	152.521	152.521	152.521	152.521	152.521	152.521	152.521
		Vy	0.773	0.773	0.773	0.773	0.773	0.773	0.773
		Vz	22.523	22.523	22.523	22.523	22.523	22.523	22.523
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-31.05	-35.29	-39.53	-43.76	-48.00	-52.24	-56.47
		Mz	-1.07	-1.21	-1.36	-1.50	-1.65	-1.79	-1.94
	Pavimentação	N	83.403	83.403	83.403	83.403	83.403	83.403	83.403
		Vy	0.420	0.420	0.420	0.420	0.420	0.420	0.420
		Vz	12.336	12.336	12.336	12.336	12.336	12.336	12.336
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.01	-19.33	-21.65	-23.97	-26.29	-28.61	-30.93
		Mz	-0.58	-0.66	-0.74	-0.82	-0.90	-0.98	-1.05
	Recapeamento	N	37.842	37.842	37.842	37.842	37.842	37.842	37.842
		Vy	0.194	0.194	0.194	0.194	0.194	0.194	0.194
		Vz	5.590	5.590	5.590	5.590	5.590	5.590	5.590
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.71	-8.76	-9.81	-10.86	-11.91	-12.96	-14.02
		Mz	-0.27	-0.30	-0.34	-0.38	-0.41	-0.45	-0.49
	Vento 0	N	18.558	18.481	18.403	18.326	18.248	18.170	18.093
		Vy	-35.515	-35.244	-34.972	-34.701	-34.430	-34.159	-33.888
		Vz	1.815	1.825	1.834	1.844	1.853	1.863	1.872
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.45	-2.80	-3.14	-3.49	-3.83	-4.18	-4.54

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	50.33	56.99	63.59	70.15	76.65	83.10	89.50
	Vento 180	N	-18.417	-18.417	-18.417	-18.417	-18.417	-18.417	-18.417
		Vy	35.768	35.768	35.768	35.768	35.768	35.768	35.768
		Vz	-1.578	-1.578	-1.578	-1.578	-1.578	-1.578	-1.578
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.18	2.47	2.77	3.07	3.36	3.66	3.96
		Mz	-49.31	-56.04	-62.77	-69.50	-76.23	-82.96	-89.68
	Multidão (Passeio)	N	26.658	26.658	26.658	26.658	26.658	26.658	26.658
		Vy	0.085	0.085	0.085	0.085	0.085	0.085	0.085
		Vz	3.935	3.935	3.935	3.935	3.935	3.935	3.935
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.43	-6.17	-6.91	-7.65	-8.39	-9.13	-9.87
		Mz	-0.12	-0.13	-0.15	-0.16	-0.18	-0.20	-0.21
	Multidão - TB450	N	86.973	86.973	86.973	86.973	86.973	86.973	86.973
		Vy	0.513	0.513	0.513	0.513	0.513	0.513	0.513
		Vz	12.850	12.850	12.850	12.850	12.850	12.850	12.850
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.72	-20.13	-22.55	-24.97	-27.39	-29.80	-32.22
		Mz	-0.71	-0.80	-0.90	-1.00	-1.09	-1.19	-1.29
	TB-450-A1	N	7.903	7.903	7.903	7.903	7.903	7.903	7.903
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	2.098	2.098	2.098	2.098	2.098	2.098	2.098
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.89	-3.29	-3.68	-4.08	-4.47	-4.87	-5.26
		Mz	-0.05	-0.05	-0.06	-0.06	-0.07	-0.08	-0.08
	TB-450-A2	N	3.360	3.360	3.360	3.360	3.360	3.360	3.360
		Vy	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vz	0.904	0.904	0.904	0.904	0.904	0.904	0.904
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.25	-1.42	-1.59	-1.76	-1.93	-2.10	-2.27
		Mz	-0.20	-0.23	-0.26	-0.28	-0.31	-0.34	-0.37
	TB-450-B1	N	22.690	22.690	22.690	22.690	22.690	22.690	22.690
		Vy	0.563	0.563	0.563	0.563	0.563	0.563	0.563
		Vz	6.064	6.064	6.064	6.064	6.064	6.064	6.064

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.36	-9.50	-10.64	-11.78	-12.92	-14.06	-15.20
		Mz	-0.78	-0.88	-0.99	-1.09	-1.20	-1.30	-1.41
	TB-450-B2	N	9.904	9.904	9.904	9.904	9.904	9.904	9.904
		Vy	-0.539	-0.539	-0.539	-0.539	-0.539	-0.539	-0.539
		Vz	2.575	2.575	2.575	2.575	2.575	2.575	2.575
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.55	-4.03	-4.52	-5.00	-5.49	-5.97	-6.46
		Mz	0.74	0.84	0.95	1.05	1.15	1.25	1.35
	TB-450-C1	N	16.474	16.474	16.474	16.474	16.474	16.474	16.474
		Vy	-0.747	-0.747	-0.747	-0.747	-0.747	-0.747	-0.747
		Vz	4.262	4.262	4.262	4.262	4.262	4.262	4.262
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.88	-6.68	-7.48	-8.28	-9.08	-9.88	-10.69
		Mz	1.03	1.17	1.31	1.45	1.59	1.73	1.87
	TB-450-C2	N	37.727	37.727	37.727	37.727	37.727	37.727	37.727
		Vy	0.926	0.926	0.926	0.926	0.926	0.926	0.926
		Vz	10.008	10.008	10.008	10.008	10.008	10.008	10.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.80	-15.68	-17.56	-19.45	-21.33	-23.21	-25.09
		Mz	-1.28	-1.45	-1.62	-1.80	-1.97	-2.15	-2.32
	TB-450-D1	N	52.484	52.484	52.484	52.484	52.484	52.484	52.484
		Vy	0.667	0.667	0.667	0.667	0.667	0.667	0.667
		Vz	12.253	12.253	12.253	12.253	12.253	12.253	12.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.89	-19.20	-21.50	-23.81	-26.11	-28.42	-30.72
		Mz	-0.92	-1.04	-1.17	-1.30	-1.42	-1.55	-1.67
	TB-450-D2	N	22.575	22.575	22.575	22.575	22.575	22.575	22.575
		Vy	-0.667	-0.667	-0.667	-0.667	-0.667	-0.667	-0.667
		Vz	5.196	5.196	5.196	5.196	5.196	5.196	5.196
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.16	-8.14	-9.12	-10.10	-11.07	-12.05	-13.03
		Mz	0.92	1.05	1.17	1.30	1.42	1.55	1.67
	TB-450-E1	N	34.730	34.730	34.730	34.730	34.730	34.730	34.730

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	0.508	0.508	0.508	0.508	0.508	0.508	0.508
		Vz	-3.589	-3.589	-3.589	-3.589	-3.589	-3.589	-3.589
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.95	5.62	6.30	6.97	7.65	8.32	9.00
		Mz	-0.70	-0.80	-0.89	-0.99	-1.08	-1.18	-1.27
	TB-450-E2	N	18.311	18.311	18.311	18.311	18.311	18.311	18.311
		Vy	0.080	0.080	0.080	0.080	0.080	0.080	0.080
		Vz	-2.577	-2.577	-2.577	-2.577	-2.577	-2.577	-2.577
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.55	4.04	4.52	5.01	5.49	5.98	6.46
		Mz	-0.11	-0.13	-0.14	-0.16	-0.17	-0.19	-0.20

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N223/N39	Peso próprio	N	101.350	101.405	101.459
		Vy	-0.004	-0.004	-0.004
		Vz	-174.351	-173.906	-173.460
		Mt	0.01	0.01	0.01
		My	-94.18	-72.41	-50.70
		Mz	0.07	0.07	0.07
	Guarda Corpo	N	27.065	27.065	27.065
		Vy	0.090	0.090	0.090
		Vz	-57.114	-57.114	-57.114
		Mt	0.01	0.01	0.01
		My	-27.54	-20.40	-13.26
		Mz	-0.21	-0.23	-0.24
	Laje	N	200.973	200.973	200.973
		Vy	0.800	0.800	0.800
		Vz	-424.186	-424.186	-424.186
		Mt	0.05	0.05	0.05
		My	-204.53	-151.51	-98.48
		Mz	-1.92	-2.02	-2.12

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	109.906	109.906	109.906
		Vy	0.435	0.435	0.435
		Vz	-231.937	-231.937	-231.937
		Mt	0.02	0.02	0.02
		My	-111.92	-82.93	-53.94
		Mz	-1.04	-1.10	-1.15
	Recapeamento	N	49.865	49.865	49.865
		Vy	0.201	0.201	0.201
		Vz	-105.246	-105.246	-105.246
		Mt	0.01	0.01	0.01
		My	-50.75	-37.60	-24.44
		Mz	-0.48	-0.51	-0.53
	Vento 0	N	20.060	20.009	19.957
		Vy	-31.772	-31.592	-31.412
		Vz	-21.673	-21.667	-21.660
		Mt	0.46	0.46	0.46
		My	-12.03	-9.32	-6.62
		Mz	89.14	93.10	97.04
	Vento 180	N	-21.208	-21.208	-21.208
		Vy	36.055	36.055	36.055
		Vz	22.710	22.710	22.710
		Mt	0.84	0.84	0.84
		My	12.38	9.54	6.71
		Mz	-89.28	-93.79	-98.29
	Multidão (Passeio)	N	35.123	35.123	35.123
		Vy	0.089	0.089	0.089
		Vz	-74.102	-74.102	-74.102
		Mt	0.01	0.01	0.01
		My	-35.73	-26.47	-17.21
		Mz	-0.21	-0.22	-0.23
	Multidão - TB450	N	114.610	114.610	114.610
		Vy	0.529	0.529	0.529
		Vz	-241.937	-241.937	-241.937
		Mt	0.03	0.03	0.03

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-116.67	-86.43	-56.19
		Mz	-1.27	-1.34	-1.41
	TB-450-A1	N	10.807	10.807	10.807
		Vy	0.035	0.035	0.035
		Vz	-21.111	-21.111	-21.111
		Mt	0.01	0.01	0.01
		My	-14.25	-11.62	-8.98
		Mz	-0.08	-0.08	-0.09
	TB-450-A2	N	4.610	4.610	4.610
		Vy	0.148	0.148	0.148
		Vz	-9.074	-9.074	-9.074
		Mt	0.01	0.01	0.01
		My	-6.14	-5.00	-3.87
		Mz	-0.36	-0.38	-0.40
	TB-450-B1	N	31.079	31.079	31.079
		Vy	0.570	0.570	0.570
		Vz	-60.952	-60.952	-60.952
		Mt	0.03	0.03	0.03
		My	-41.19	-33.57	-25.95
		Mz	-1.40	-1.47	-1.54
	TB-450-B2	N	13.480	13.480	13.480
		Vy	-0.546	-0.546	-0.546
		Vz	-26.027	-26.027	-26.027
		Mt	-0.02	-0.02	-0.02
		My	-17.53	-14.27	-11.02
		Mz	1.34	1.41	1.48
	TB-450-C1	N	22.425	22.425	22.425
		Vy	-0.754	-0.754	-0.754
		Vz	-43.427	-43.427	-43.427
		Mt	-0.02	-0.02	-0.02
		My	-29.10	-23.68	-18.25
		Mz	1.86	1.96	2.05
	TB-450-C2	N	51.647	51.647	51.647
		Vy	0.934	0.934	0.934

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-101.375	-101.375	-101.375
		Mt	0.02	0.02	0.02
		My	-68.20	-55.52	-42.85
		Mz	-2.31	-2.43	-2.54
	TB-450-D1	N	71.041	71.041	71.041
		Vy	0.672	0.672	0.672
		Vz	-140.017	-140.017	-140.017
		Mt	0.01	0.01	0.01
		My	-88.09	-70.59	-53.08
		Mz	-1.66	-1.75	-1.83
	TB-450-D2	N	30.459	30.459	30.459
		Vy	-0.673	-0.673	-0.673
		Vz	-59.534	-59.534	-59.534
		Mt	-0.02	-0.02	-0.02
		My	-37.39	-29.95	-22.51
		Mz	1.67	1.75	1.83
	TB-450-E1	N	42.321	42.321	42.321
		Vy	0.511	0.511	0.511
		Vz	-108.448	-108.448	-108.448
		Mt	0.00	0.00	0.00
		My	-12.86	0.70	14.25
		Mz	-1.27	-1.34	-1.40
	TB-450-E2	N	21.914	21.914	21.914
		Vy	0.111	0.111	0.111
		Vz	-56.758	-56.758	-56.758
		Mt	0.04	0.04	0.04
		My	-3.83	3.26	10.36
		Mz	-0.19	-0.20	-0.21

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N39/N222	Peso próprio	N	102.862	102.916	102.971

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.020	0.020	0.020
		Vz	-161.160	-160.714	-160.268
		Mt	0.01	0.01	0.01
		My	-51.15	-31.04	-10.97
		Mz	0.07	0.07	0.06
	Guarda Corpo	N	28.984	28.984	28.984
		Vy	-0.083	-0.083	-0.083
		Vz	-41.913	-41.913	-41.913
		Mt	0.01	0.01	0.01
		My	-13.82	-8.58	-3.34
		Mz	-0.23	-0.22	-0.21
	Laje	N	215.568	215.568	215.568
		Vy	-0.786	-0.786	-0.786
		Vz	-311.280	-311.280	-311.280
		Mt	0.05	0.05	0.05
		My	-102.62	-63.71	-24.80
		Mz	-2.06	-1.96	-1.86
	Pavimentação	N	117.887	117.887	117.887
		Vy	-0.431	-0.431	-0.431
		Vz	-170.326	-170.326	-170.326
		Mt	0.03	0.03	0.03
		My	-56.19	-34.90	-13.61
		Mz	-1.12	-1.07	-1.01
	Recapeamento	N	53.491	53.491	53.491
		Vy	-0.198	-0.198	-0.198
		Vz	-77.242	-77.242	-77.242
		Mt	0.01	0.01	0.01
		My	-25.47	-15.81	-6.16
		Mz	-0.52	-0.49	-0.47
	Vento 0	N	2.013	1.962	1.910
		Vy	30.507	30.688	30.868
		Vz	-17.974	-17.968	-17.961
		Mt	0.32	0.32	0.32
		My	-6.71	-4.46	-2.22

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	94.79	90.97	87.12
	Vento 180	N	-0.570	-0.570	-0.570
		Vy	-34.815	-34.815	-34.815
		Vz	18.708	18.708	18.708
		Mt	0.99	0.99	0.99
		My	6.81	4.47	2.13
		Mz	-95.72	-91.37	-87.02
	Multidão (Passeio)	N	37.541	37.541	37.541
		Vy	-0.073	-0.073	-0.073
		Vz	-54.374	-54.374	-54.374
		Mt	0.01	0.01	0.01
		My	-17.93	-11.13	-4.33
		Mz	-0.23	-0.22	-0.21
	Multidão - TB450	N	123.119	123.119	123.119
		Vy	-0.541	-0.541	-0.541
		Vz	-177.575	-177.575	-177.575
		Mt	0.03	0.03	0.03
		My	-58.54	-36.35	-14.15
		Mz	-1.37	-1.30	-1.23
	TB-450-A1	N	10.788	10.788	10.788
		Vy	-0.033	-0.033	-0.033
		Vz	-21.115	-21.115	-21.115
		Mt	0.01	0.01	0.01
		My	-8.98	-6.34	-3.70
		Mz	-0.08	-0.08	-0.08
	TB-450-A2	N	4.653	4.653	4.653
		Vy	-0.140	-0.140	-0.140
		Vz	-9.091	-9.091	-9.091
		Mt	0.01	0.01	0.01
		My	-3.87	-2.73	-1.60
		Mz	-0.39	-0.37	-0.35
	TB-450-B1	N	31.360	31.360	31.360
		Vy	-0.572	-0.572	-0.572
		Vz	-61.019	-61.019	-61.019

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.03	0.03	0.03
		My	-25.95	-18.32	-10.69
		Mz	-1.50	-1.43	-1.36
	TB-450-B2	N	13.106	13.106	13.106
		Vy	0.520	0.520	0.520
		Vz	-25.964	-25.964	-25.964
		Mt	-0.02	-0.02	-0.02
		My	-11.02	-7.78	-4.53
		Mz	1.44	1.38	1.31
	TB-450-C1	N	22.677	22.677	22.677
		Vy	0.607	0.607	0.607
		Vz	-43.341	-43.341	-43.341
		Mt	-0.03	-0.03	-0.03
		My	-18.25	-12.83	-7.42
		Mz	2.00	1.93	1.85
	TB-450-C2	N	52.861	52.861	52.861
		Vy	-1.034	-1.034	-1.034
		Vz	-101.487	-101.487	-101.487
		Mt	0.02	0.02	0.02
		My	-42.85	-30.16	-17.48
		Mz	-2.47	-2.34	-2.21
	TB-450-D1	N	72.099	72.099	72.099
		Vy	-0.416	-0.416	-0.416
		Vz	-140.083	-140.083	-140.083
		Mt	0.01	0.01	0.01
		My	-53.08	-35.57	-18.06
		Mz	-1.79	-1.74	-1.69
	TB-450-D2	N	30.837	30.837	30.837
		Vy	0.528	0.528	0.528
		Vz	-59.462	-59.462	-59.462
		Mt	-0.02	-0.02	-0.02
		My	-22.51	-15.08	-7.65
		Mz	1.79	1.72	1.66
	TB-450-E1	N	52.829	52.829	52.829

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.510	-0.510	-0.510
		Vz	-19.699	-19.699	-19.699
		Mt	0.01	0.01	0.01
		My	11.00	13.47	15.93
		Mz	-1.36	-1.30	-1.24
	TB-450-E2	N	27.336	27.336	27.336
		Vy	0.087	0.087	0.087
		Vz	-5.185	-5.185	-5.185
		Mt	0.04	0.04	0.04
		My	8.47	9.12	9.77
		Mz	-0.21	-0.22	-0.24

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N222/N68	Peso próprio	N	145.664	145.746	145.828	145.910	145.992	146.074	146.156
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-29.782	-29.111	-28.440	-27.769	-27.098	-26.427	-25.756
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-46.47	-40.93	-35.51	-30.23	-25.07	-20.03	-15.12
		Mz	0.06	0.06	0.06	0.05	0.05	0.05	0.04
	Guarda Corpo	N	40.505	40.505	40.505	40.505	40.505	40.505	40.505
		Vy	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083
		Vz	-7.696	-7.696	-7.696	-7.696	-7.696	-7.696	-7.696
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.46	-12.02	-10.57	-9.12	-7.67	-6.22	-4.78
		Mz	-0.21	-0.19	-0.18	-0.16	-0.15	-0.13	-0.11
	Laje	N	301.126	301.126	301.126	301.126	301.126	301.126	301.126
		Vy	-0.780	-0.780	-0.780	-0.780	-0.780	-0.780	-0.780
		Vz	-57.177	-57.177	-57.177	-57.177	-57.177	-57.177	-57.177
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-99.97	-89.21	-78.46	-67.70	-56.95	-46.19	-35.43
		Mz	-1.85	-1.71	-1.56	-1.41	-1.26	-1.12	-0.97

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Pavimentação	N	164.705	164.705	164.705	164.705	164.705	164.705	164.705
		Vy	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
		Vz	-31.271	-31.271	-31.271	-31.271	-31.271	-31.271	-31.271
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-54.74	-48.86	-42.97	-37.09	-31.21	-25.33	-19.44
		Mz	-1.01	-0.93	-0.85	-0.77	-0.68	-0.60	-0.52
	Recapeamento	N	74.722	74.722	74.722	74.722	74.722	74.722	74.722
		Vy	-0.197	-0.197	-0.197	-0.197	-0.197	-0.197	-0.197
		Vz	-14.187	-14.187	-14.187	-14.187	-14.187	-14.187	-14.187
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.81	-22.14	-19.47	-16.80	-14.13	-11.47	-8.80
		Mz	-0.46	-0.43	-0.39	-0.35	-0.32	-0.28	-0.24
	Vento 0	N	6.182	6.105	6.027	5.949	5.872	5.794	5.717
		Vy	33.404	33.676	33.947	34.218	34.489	34.760	35.031
		Vz	-2.868	-2.858	-2.849	-2.839	-2.830	-2.820	-2.811
		Mt	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
		My	-5.61	-5.07	-4.53	-4.00	-3.46	-2.93	-2.40
		Mz	87.05	80.74	74.38	67.97	61.50	54.99	48.43
	Vento 180	N	-5.642	-5.642	-5.642	-5.642	-5.642	-5.642	-5.642
		Vy	-34.620	-34.620	-34.620	-34.620	-34.620	-34.620	-34.620
		Vz	3.566	3.566	3.566	3.566	3.566	3.566	3.566
		Mt	0.30	0.30	0.30	0.30	0.30	0.30	0.30
		My	6.50	5.83	5.16	4.48	3.81	3.14	2.47
		Mz	-86.83	-80.32	-73.81	-67.30	-60.78	-54.27	-47.76
	Multidão (Passeio)	N	52.488	52.488	52.488	52.488	52.488	52.488	52.488
		Vy	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
		Vz	-9.981	-9.981	-9.981	-9.981	-9.981	-9.981	-9.981
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.47	-15.59	-13.71	-11.83	-9.96	-8.08	-6.20
		Mz	-0.21	-0.19	-0.18	-0.16	-0.15	-0.14	-0.12
	Multidão - TB450	N	171.925	171.925	171.925	171.925	171.925	171.925	171.925
		Vy	-0.537	-0.537	-0.537	-0.537	-0.537	-0.537	-0.537
		Vz	-32.623	-32.623	-32.623	-32.623	-32.623	-32.623	-32.623
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	-57.03	-50.89	-44.76	-38.62	-32.48	-26.35	-20.21
		Mz	-1.23	-1.12	-1.02	-0.92	-0.82	-0.72	-0.62
	TB-450-A1	N	16.758	16.758	16.758	16.758	16.758	16.758	16.758
		Vy	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vz	-3.055	-3.055	-3.055	-3.055	-3.055	-3.055	-3.055
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.64	-8.07	-7.50	-6.92	-6.35	-5.77	-5.20
		Mz	-0.07	-0.07	-0.06	-0.05	-0.05	-0.04	-0.04
	TB-450-A2	N	7.224	7.224	7.224	7.224	7.224	7.224	7.224
		Vy	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
		Vz	-1.312	-1.312	-1.312	-1.312	-1.312	-1.312	-1.312
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.73	-3.48	-3.23	-2.99	-2.74	-2.49	-2.25
		Mz	-0.35	-0.33	-0.30	-0.27	-0.25	-0.22	-0.20
	TB-450-B1	N	48.610	48.610	48.610	48.610	48.610	48.610	48.610
		Vy	-0.568	-0.568	-0.568	-0.568	-0.568	-0.568	-0.568
		Vz	-8.829	-8.829	-8.829	-8.829	-8.829	-8.829	-8.829
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-24.99	-23.32	-21.66	-20.00	-18.34	-16.68	-15.02
		Mz	-1.35	-1.24	-1.14	-1.03	-0.92	-0.82	-0.71
	TB-450-B2	N	20.442	20.442	20.442	20.442	20.442	20.442	20.442
		Vy	0.517	0.517	0.517	0.517	0.517	0.517	0.517
		Vz	-3.774	-3.774	-3.774	-3.774	-3.774	-3.774	-3.774
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-10.61	-9.90	-9.19	-8.48	-7.77	-7.06	-6.35
		Mz	1.31	1.21	1.11	1.02	0.92	0.82	0.72
	TB-450-C1	N	34.860	34.860	34.860	34.860	34.860	34.860	34.860
		Vy	0.604	0.604	0.604	0.604	0.604	0.604	0.604
		Vz	-6.493	-6.493	-6.493	-6.493	-6.493	-6.493	-6.493
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-17.52	-16.30	-15.08	-13.85	-12.63	-11.41	-10.19
		Mz	1.85	1.73	1.62	1.51	1.39	1.28	1.17
	TB-450-C2	N	81.425	81.425	81.425	81.425	81.425	81.425	81.425
		Vy	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-15.070	-15.070	-15.070	-15.070	-15.070	-15.070	-15.070
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-41.15	-38.32	-35.48	-32.65	-29.81	-26.98	-24.14
		Mz	-2.21	-2.01	-1.82	-1.63	-1.43	-1.24	-1.05
	TB-450-D1	N	108.330	108.330	108.330	108.330	108.330	108.330	108.330
		Vy	-0.412	-0.412	-0.412	-0.412	-0.412	-0.412	-0.412
		Vz	-30.614	-30.614	-30.614	-30.614	-30.614	-30.614	-30.614
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-48.42	-42.66	-36.91	-31.15	-25.39	-19.63	-13.87
		Mz	-1.68	-1.61	-1.53	-1.45	-1.37	-1.30	-1.22
	TB-450-D2	N	46.212	46.212	46.212	46.212	46.212	46.212	46.212
		Vy	0.526	0.526	0.526	0.526	0.526	0.526	0.526
		Vz	-13.016	-13.016	-13.016	-13.016	-13.016	-13.016	-13.016
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-20.53	-18.08	-15.64	-13.19	-10.74	-8.29	-5.84
		Mz	1.66	1.56	1.46	1.36	1.26	1.16	1.07
	TB-450-E1	N	58.284	58.284	58.284	58.284	58.284	58.284	58.284
		Vy	-0.510	-0.510	-0.510	-0.510	-0.510	-0.510	-0.510
		Vz	-6.830	-6.830	-6.830	-6.830	-6.830	-6.830	-6.830
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	8.24	9.53	10.81	12.10	13.38	14.67	15.95
		Mz	-1.24	-1.14	-1.05	-0.95	-0.85	-0.76	-0.66
	TB-450-E2	N	29.175	29.175	29.175	29.175	29.175	29.175	29.175
		Vy	0.089	0.089	0.089	0.089	0.089	0.089	0.089
		Vz	-1.721	-1.721	-1.721	-1.721	-1.721	-1.721	-1.721
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	6.44	6.76	7.09	7.41	7.73	8.06	8.38
		Mz	-0.23	-0.25	-0.26	-0.28	-0.30	-0.32	-0.33

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N68/N221	Peso próprio	N	146.156	146.238	146.319	146.401	146.483	146.565	146.647

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-25.756	-25.085	-24.414	-23.743	-23.072	-22.401	-21.729
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-15.12	-10.34	-5.69	-1.16	3.25	7.52	11.67
		Mz	0.04	0.04	0.04	0.03	0.03	0.03	0.02
	Guarda Corpo	N	40.505	40.505	40.505	40.505	40.505	40.505	40.505
		Vy	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083
		Vz	-7.696	-7.696	-7.696	-7.696	-7.696	-7.696	-7.696
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.78	-3.33	-1.88	-0.43	1.01	2.46	3.91
		Mz	-0.11	-0.10	-0.08	-0.07	-0.05	-0.04	-0.02
	Laje	N	301.126	301.126	301.126	301.126	301.126	301.126	301.126
		Vy	-0.780	-0.780	-0.780	-0.780	-0.780	-0.780	-0.780
		Vz	-57.177	-57.177	-57.177	-57.177	-57.177	-57.177	-57.177
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-35.43	-24.68	-13.92	-3.17	7.59	18.34	29.10
		Mz	-0.97	-0.82	-0.68	-0.53	-0.38	-0.24	-0.09
	Pavimentação	N	164.705	164.705	164.705	164.705	164.705	164.705	164.705
		Vy	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
		Vz	-31.271	-31.271	-31.271	-31.271	-31.271	-31.271	-31.271
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-19.44	-13.56	-7.68	-1.80	4.09	9.97	15.85
		Mz	-0.52	-0.44	-0.36	-0.28	-0.20	-0.12	-0.04
	Recapeamento	N	74.722	74.722	74.722	74.722	74.722	74.722	74.722
		Vy	-0.197	-0.197	-0.197	-0.197	-0.197	-0.197	-0.197
		Vz	-14.187	-14.187	-14.187	-14.187	-14.187	-14.187	-14.187
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.80	-6.13	-3.46	-0.79	1.88	4.55	7.22
		Mz	-0.24	-0.21	-0.17	-0.13	-0.10	-0.06	-0.02
	Vento 0	N	5.717	5.639	5.562	5.484	5.406	5.329	5.251
		Vy	35.031	35.302	35.573	35.845	36.116	36.387	36.658
		Vz	-2.811	-2.801	-2.792	-2.782	-2.773	-2.763	-2.754
		Mt	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
		My	-2.40	-1.87	-1.35	-0.82	-0.30	0.22	0.74

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	48.43	41.81	35.14	28.43	21.66	14.84	7.97
	Vento 180	N	-5.642	-5.642	-5.642	-5.642	-5.642	-5.642	-5.642
		Vy	-34.620	-34.620	-34.620	-34.620	-34.620	-34.620	-34.620
		Vz	3.566	3.566	3.566	3.566	3.566	3.566	3.566
		Mt	0.30	0.30	0.30	0.30	0.30	0.30	0.30
		My	2.47	1.80	1.13	0.46	-0.21	-0.88	-1.55
		Mz	-47.76	-41.25	-34.73	-28.22	-21.71	-15.20	-8.68
	Multidão (Passeio)	N	52.488	52.488	52.488	52.488	52.488	52.488	52.488
		Vy	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072	-0.072
		Vz	-9.981	-9.981	-9.981	-9.981	-9.981	-9.981	-9.981
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.20	-4.32	-2.45	-0.57	1.31	3.19	5.06
		Mz	-0.12	-0.11	-0.10	-0.08	-0.07	-0.06	-0.04
	Multidão - TB450	N	171.925	171.925	171.925	171.925	171.925	171.925	171.925
		Vy	-0.537	-0.537	-0.537	-0.537	-0.537	-0.537	-0.537
		Vz	-32.623	-32.623	-32.623	-32.623	-32.623	-32.623	-32.623
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-20.21	-14.07	-7.94	-1.80	4.34	10.48	16.61
		Mz	-0.62	-0.52	-0.42	-0.32	-0.22	-0.11	-0.01
	TB-450-A1	N	16.758	16.758	16.758	16.758	16.758	16.758	16.758
		Vy	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vz	-3.055	-3.055	-3.055	-3.055	-3.055	-3.055	-3.055
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.20	-4.62	-4.05	-3.47	-2.90	-2.32	-1.75
		Mz	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
	TB-450-A2	N	7.224	7.224	7.224	7.224	7.224	7.224	7.224
		Vy	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
		Vz	-1.312	-1.312	-1.312	-1.312	-1.312	-1.312	-1.312
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.25	-2.00	-1.75	-1.51	-1.26	-1.01	-0.77
		Mz	-0.20	-0.17	-0.14	-0.12	-0.09	-0.07	-0.04
	TB-450-B1	N	48.610	48.610	48.610	48.610	48.610	48.610	48.610
		Vy	-0.568	-0.568	-0.568	-0.568	-0.568	-0.568	-0.568
		Vz	-8.829	-8.829	-8.829	-8.829	-8.829	-8.829	-8.829

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-15.02	-13.36	-11.70	-10.04	-8.38	-6.72	-5.06
		Mz	-0.71	-0.60	-0.50	-0.39	-0.28	-0.18	-0.07
	TB-450-B2	N	20.442	20.442	20.442	20.442	20.442	20.442	20.442
		Vy	0.517	0.517	0.517	0.517	0.517	0.517	0.517
		Vz	-3.774	-3.774	-3.774	-3.774	-3.774	-3.774	-3.774
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-6.35	-5.64	-4.93	-4.22	-3.51	-2.80	-2.09
		Mz	0.72	0.63	0.53	0.43	0.33	0.24	0.14
	TB-450-C1	N	34.860	34.860	34.860	34.860	34.860	34.860	34.860
		Vy	0.604	0.604	0.604	0.604	0.604	0.604	0.604
		Vz	-6.493	-6.493	-6.493	-6.493	-6.493	-6.493	-6.493
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-10.19	-8.97	-7.75	-6.53	-5.30	-4.08	-2.86
		Mz	1.17	1.05	0.94	0.83	0.71	0.60	0.48
	TB-450-C2	N	81.425	81.425	81.425	81.425	81.425	81.425	81.425
		Vy	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029	-1.029
		Vz	-15.070	-15.070	-15.070	-15.070	-15.070	-15.070	-15.070
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.14	-21.31	-18.47	-15.64	-12.80	-9.97	-7.13
		Mz	-1.05	-0.85	-0.66	-0.47	-0.27	-0.08	0.12
	TB-450-D1	N	108.330	108.330	108.330	108.330	108.330	108.330	108.330
		Vy	-0.412	-0.412	-0.412	-0.412	-0.412	-0.412	-0.412
		Vz	-30.614	-30.614	-30.614	-30.614	-30.614	-30.614	-30.614
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-13.87	-8.11	-2.35	3.41	9.17	14.92	20.68
		Mz	-1.22	-1.14	-1.06	-0.99	-0.91	-0.83	-0.75
	TB-450-D2	N	46.212	46.212	46.212	46.212	46.212	46.212	46.212
		Vy	0.526	0.526	0.526	0.526	0.526	0.526	0.526
		Vz	-13.016	-13.016	-13.016	-13.016	-13.016	-13.016	-13.016
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-5.84	-3.39	-0.95	1.50	3.95	6.40	8.85
		Mz	1.07	0.97	0.87	0.77	0.67	0.57	0.47
	TB-450-E1	N	58.284	58.284	58.284	58.284	58.284	58.284	58.284

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	-0.510	-0.510	-0.510	-0.510	-0.510	-0.510	-0.510
		Vz	-6.830	-6.830	-6.830	-6.830	-6.830	-6.830	-6.830
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	15.95	17.24	18.52	19.81	21.09	22.38	23.66
		Mz	-0.66	-0.57	-0.47	-0.37	-0.28	-0.18	-0.09
	TB-450-E2	N	29.175	29.175	29.175	29.175	29.175	29.175	29.175
		Vy	0.089	0.089	0.089	0.089	0.089	0.089	0.089
		Vz	-1.721	-1.721	-1.721	-1.721	-1.721	-1.721	-1.721
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	8.38	8.71	9.03	9.35	9.68	10.00	10.32
		Mz	-0.33	-0.35	-0.37	-0.38	-0.40	-0.42	-0.43

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N221/N12	Peso próprio	N	160.108	160.162	160.217
		Vy	0.012	0.012	0.012
		Vz	-155.116	-154.670	-154.224
		Mt	0.05	0.05	0.05
		My	-21.47	-2.11	17.20
		Mz	0.02	0.02	0.02
	Guarda Corpo	N	44.364	44.364	44.364
		Vy	-0.084	-0.084	-0.084
		Vz	-50.376	-50.376	-50.376
		Mt	0.01	0.01	0.01
		My	-5.52	0.78	7.08
		Mz	-0.02	-0.01	0.00
	Laje	N	329.782	329.782	329.782
		Vy	-0.783	-0.783	-0.783
		Vz	-374.131	-374.131	-374.131
		Mt	0.05	0.05	0.05
		My	-40.91	5.86	52.63
		Mz	-0.09	0.01	0.11

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	180.387	180.387	180.387
		Vy	-0.428	-0.428	-0.428
		Vz	-204.683	-204.683	-204.683
		Mt	0.02	0.02	0.02
		My	-22.46	3.12	28.71
		Mz	-0.04	0.01	0.07
	Recapeamento	N	81.833	81.833	81.833
		Vy	-0.197	-0.197	-0.197
		Vz	-92.835	-92.835	-92.835
		Mt	0.01	0.01	0.01
		My	-10.16	1.45	13.05
		Mz	-0.02	0.00	0.03
	Vento 0	N	6.198	6.146	6.095
		Vy	39.769	39.949	40.129
		Vz	-20.864	-20.857	-20.851
		Mt	-3.84	-3.84	-3.84
		My	-2.47	0.14	2.74
		Mz	7.90	2.92	-2.09
	Vento 180	N	-7.323	-7.323	-7.323
		Vy	-35.207	-35.207	-35.207
		Vz	21.647	21.647	21.647
		Mt	4.00	4.00	4.00
		My	2.57	-0.13	-2.84
		Mz	-8.60	-4.20	0.20
	Multidão (Passeio)	N	57.495	57.495	57.495
		Vy	-0.075	-0.075	-0.075
		Vz	-65.354	-65.354	-65.354
		Mt	0.02	0.02	0.02
		My	-7.17	1.00	9.17
		Mz	-0.04	-0.03	-0.02
	Multidão - TB450	N	188.271	188.271	188.271
		Vy	-0.536	-0.536	-0.536
		Vz	-213.420	-213.420	-213.420
		Mt	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-23.32	3.36	30.03
		Mz	-0.01	0.05	0.12
	TB-450-A1	N	18.791	18.791	18.791
		Vy	-0.035	-0.035	-0.035
		Vz	-23.889	-23.889	-23.889
		Mt	0.02	0.02	0.02
		My	-6.92	-3.93	-0.94
		Mz	0.00	0.00	0.01
	TB-450-A2	N	8.100	8.100	8.100
		Vy	-0.142	-0.142	-0.142
		Vz	-10.285	-10.285	-10.285
		Mt	0.03	0.03	0.03
		My	-2.99	-1.71	-0.42
		Mz	-0.04	-0.02	0.00
	TB-450-B1	N	54.483	54.483	54.483
		Vy	-0.581	-0.581	-0.581
		Vz	-69.019	-69.019	-69.019
		Mt	0.10	0.10	0.10
		My	-19.99	-11.36	-2.73
		Mz	-0.07	0.01	0.08
	TB-450-B2	N	22.939	22.939	22.939
		Vy	0.526	0.526	0.526
		Vz	-29.380	-29.380	-29.380
		Mt	-0.06	-0.06	-0.06
		My	-8.44	-4.77	-1.09
		Mz	0.14	0.07	0.01
	TB-450-C1	N	38.985	38.985	38.985
		Vy	0.638	0.638	0.638
		Vz	-48.898	-48.898	-48.898
		Mt	-0.23	-0.23	-0.23
		My	-13.33	-7.21	-1.10
		Mz	0.48	0.40	0.32
	TB-450-C2	N	91.106	91.106	91.106
		Vy	-1.027	-1.027	-1.027

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-114.461	-114.461	-114.461
		Mt	-0.01	-0.01	-0.01
		My	-31.71	-17.40	-3.09
		Mz	0.12	0.24	0.37
	TB-450-D1	N	119.708	119.708	119.708
		Vy	-0.402	-0.402	-0.402
		Vz	-158.779	-158.779	-158.779
		Mt	-0.06	-0.06	-0.06
		My	-6.92	12.93	32.78
		Mz	-0.76	-0.71	-0.66
	TB-450-D2	N	51.039	51.039	51.039
		Vy	0.557	0.557	0.557
		Vz	-67.409	-67.409	-67.409
		Mt	-0.20	-0.20	-0.20
		My	-2.86	5.57	13.99
		Mz	0.47	0.40	0.33
	TB-450-E1	N	60.321	60.321	60.321
		Vy	-0.537	-0.537	-0.537
		Vz	-40.288	-40.288	-40.288
		Mt	0.17	0.17	0.17
		My	20.02	25.06	30.09
		Mz	-0.08	-0.02	0.05
	TB-450-E2	N	30.009	30.009	30.009
		Vy	0.064	0.064	0.064
		Vz	-15.901	-15.901	-15.901
		Mt	0.18	0.18	0.18
		My	8.92	10.91	12.90
		Mz	-0.43	-0.44	-0.44

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N12/N220	Peso próprio	N	161.436	161.490	161.545

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.284	0.284	0.284
		Vz	-141.568	-141.122	-140.676
		Mt	-0.02	-0.02	-0.02
		My	16.77	34.44	52.05
		Mz	0.00	-0.03	-0.07
	Guarda Corpo	N	46.144	46.144	46.144
		Vy	0.094	0.094	0.094
		Vz	-35.160	-35.160	-35.160
		Mt	0.00	0.00	0.00
		My	6.53	10.93	15.32
		Mz	-0.01	-0.02	-0.03
	Laje	N	343.342	343.342	343.342
		Vy	1.070	1.070	1.070
		Vz	-261.085	-261.085	-261.085
		Mt	-0.01	-0.01	-0.01
		My	48.53	81.17	113.80
		Mz	0.03	-0.10	-0.24
	Pavimentação	N	187.821	187.821	187.821
		Vy	0.610	0.610	0.610
		Vz	-142.995	-142.995	-142.995
		Mt	0.00	0.00	0.00
		My	26.47	44.34	62.22
		Mz	0.02	-0.05	-0.13
	Recapeamento	N	85.203	85.203	85.203
		Vy	0.273	0.273	0.273
		Vz	-64.796	-64.796	-64.796
		Mt	0.00	0.00	0.00
		My	12.04	20.14	28.24
		Mz	0.01	-0.02	-0.06
	Vento 0	N	48.328	48.277	48.225
		Vy	-0.737	-0.557	-0.377
		Vz	-21.571	-21.564	-21.558
		Mt	4.21	4.21	4.21
		My	-3.55	-0.85	1.85

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.68	0.76	0.81
	Vento 180	N	-46.529	-46.529	-46.529
		Vy	-4.062	-4.062	-4.062
		Vz	22.026	22.026	22.026
		Mt	-4.00	-4.00	-4.00
		My	3.43	0.68	-2.07
		Mz	-2.20	-1.69	-1.18
	Multidão (Passeio)	N	59.732	59.732	59.732
		Vy	0.042	0.042	0.042
		Vz	-45.615	-45.615	-45.615
		Mt	-0.01	-0.01	-0.01
		My	8.47	14.17	19.88
		Mz	-0.03	-0.04	-0.04
	Multidão - TB450	N	196.192	196.192	196.192
		Vy	0.819	0.819	0.819
		Vz	-148.959	-148.959	-148.959
		Mt	0.01	0.01	0.01
		My	27.67	46.29	64.91
		Mz	0.07	-0.03	-0.13
	TB-450-A1	N	18.649	18.649	18.649
		Vy	0.007	0.007	0.007
		Vz	-23.888	-23.888	-23.888
		Mt	0.00	0.00	0.00
		My	-0.92	2.06	5.05
		Mz	0.00	0.00	0.00
	TB-450-A2	N	7.836	7.836	7.836
		Vy	0.010	0.010	0.010
		Vz	-10.282	-10.282	-10.282
		Mt	-0.02	-0.02	-0.02
		My	-0.38	0.90	2.19
		Mz	-0.02	-0.02	-0.02
	TB-450-B1	N	53.667	53.667	53.667
		Vy	0.001	0.001	0.001
		Vz	-69.011	-69.011	-69.011

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-0.07	-0.07	-0.07
		My	-2.61	6.02	14.65
		Mz	0.03	0.03	0.03
	TB-450-B2	N	23.472	23.472	23.472
		Vy	0.008	0.008	0.008
		Vz	-29.385	-29.385	-29.385
		Mt	0.05	0.05	0.05
		My	-1.18	2.49	6.16
		Mz	0.04	0.04	0.04
	TB-450-C1	N	41.176	41.176	41.176
		Vy	1.096	1.096	1.096
		Vz	-48.861	-48.861	-48.861
		Mt	0.19	0.19	0.19
		My	-1.44	4.67	10.78
		Mz	0.37	0.23	0.10
	TB-450-C2	N	91.192	91.192	91.192
		Vy	1.091	1.091	1.091
		Vz	-114.404	-114.404	-114.404
		Mt	-0.01	-0.01	-0.01
		My	-3.09	11.21	25.51
		Mz	0.29	0.16	0.02
	TB-450-D1	N	127.724	127.724	127.724
		Vy	-0.037	-0.037	-0.037
		Vz	-97.726	-97.726	-97.726
		Mt	0.04	0.04	0.04
		My	30.46	42.67	54.89
		Mz	-0.65	-0.65	-0.64
	TB-450-D2	N	56.186	56.186	56.186
		Vy	-0.058	-0.058	-0.058
		Vz	-41.624	-41.624	-41.624
		Mt	0.21	0.21	0.21
		My	12.73	17.93	23.13
		Mz	0.42	0.42	0.43
	TB-450-E1	N	65.950	65.950	65.950

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.110	-0.110	-0.110
		Vz	20.767	20.767	20.767
		Mt	-0.17	-0.17	-0.17
		My	28.13	25.53	22.94
		Mz	-0.02	0.00	0.01
	TB-450-E2	N	31.637	31.637	31.637
		Vy	0.001	0.001	0.001
		Vz	9.879	9.879	9.879
		Mt	-0.12	-0.12	-0.12
		My	12.19	10.96	9.72
		Mz	-0.49	-0.49	-0.49

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N220/N69	Peso próprio	N	204.339	204.421	204.503	204.585	204.667	204.748	204.830
		Vy	0.280	0.280	0.280	0.280	0.280	0.280	0.280
		Vz	-12.211	-11.540	-10.869	-10.198	-9.527	-8.856	-8.185
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.57	15.81	17.91	19.90	21.75	23.48	25.08
		Mz	-0.07	-0.12	-0.18	-0.23	-0.28	-0.33	-0.39
	Guarda Corpo	N	57.458	57.458	57.458	57.458	57.458	57.458	57.458
		Vy	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Vz	-2.377	-2.377	-2.377	-2.377	-2.377	-2.377	-2.377
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.43	4.88	5.33	5.77	6.22	6.67	7.12
		Mz	-0.03	-0.05	-0.07	-0.09	-0.10	-0.12	-0.14
	Laje	N	427.348	427.348	427.348	427.348	427.348	427.348	427.348
		Vy	1.069	1.069	1.069	1.069	1.069	1.069	1.069
		Vz	-17.681	-17.681	-17.681	-17.681	-17.681	-17.681	-17.681
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	32.96	36.28	39.61	42.93	46.26	49.58	52.91
		Mz	-0.23	-0.43	-0.63	-0.84	-1.04	-1.24	-1.44

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Pavimentação	N	233.827	233.827	233.827	233.827	233.827	233.827	233.827
		Vy	0.610	0.610	0.610	0.610	0.610	0.610	0.610
		Vz	-9.682	-9.682	-9.682	-9.682	-9.682	-9.682	-9.682
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	17.95	19.77	21.59	23.41	25.24	27.06	28.88
		Mz	-0.12	-0.24	-0.35	-0.47	-0.58	-0.70	-0.81
	Recapeamento	N	106.051	106.051	106.051	106.051	106.051	106.051	106.051
		Vy	0.272	0.272	0.272	0.272	0.272	0.272	0.272
		Vz	-4.388	-4.388	-4.388	-4.388	-4.388	-4.388	-4.388
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	8.17	9.00	9.82	10.65	11.47	12.30	13.12
		Mz	-0.06	-0.11	-0.16	-0.21	-0.26	-0.31	-0.36
	Vento 0	N	53.797	53.719	53.641	53.564	53.486	53.409	53.331
		Vy	2.822	3.093	3.364	3.635	3.906	4.177	4.448
		Vz	-2.511	-2.501	-2.492	-2.482	-2.473	-2.464	-2.454
		Mt	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		My	-2.67	-2.20	-1.73	-1.27	-0.80	-0.34	0.13
		Mz	1.66	1.10	0.50	-0.16	-0.87	-1.63	-2.44
	Vento 180	N	-52.848	-52.848	-52.848	-52.848	-52.848	-52.848	-52.848
		Vy	-4.619	-4.619	-4.619	-4.619	-4.619	-4.619	-4.619
		Vz	3.128	3.128	3.128	3.128	3.128	3.128	3.128
		Mt	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
		My	3.42	2.83	2.24	1.65	1.07	0.48	-0.11
		Mz	-2.17	-1.30	-0.44	0.43	1.30	2.17	3.04
	Multidão (Passeio)	N	74.413	74.413	74.413	74.413	74.413	74.413	74.413
		Vy	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Vz	-3.079	-3.079	-3.079	-3.079	-3.079	-3.079	-3.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.75	6.33	6.91	7.48	8.06	8.64	9.22
		Mz	-0.05	-0.05	-0.06	-0.07	-0.08	-0.08	-0.09
	Multidão - TB450	N	244.114	244.114	244.114	244.114	244.114	244.114	244.114
		Vy	0.820	0.820	0.820	0.820	0.820	0.820	0.820
		Vz	-10.102	-10.102	-10.102	-10.102	-10.102	-10.102	-10.102
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	18.79	20.69	22.59	24.49	26.39	28.30	30.20
		Mz	-0.13	-0.28	-0.43	-0.59	-0.74	-0.90	-1.05
	TB-450-A1	N	26.344	26.344	26.344	26.344	26.344	26.344	26.344
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-1.126	-1.126	-1.126	-1.126	-1.126	-1.126	-1.126
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.89	-1.68	-1.47	-1.26	-1.04	-0.83	-0.62
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	11.150	11.150	11.150	11.150	11.150	11.150	11.150
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.478	-0.478	-0.478	-0.478	-0.478	-0.478	-0.478
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.80	-0.71	-0.62	-0.53	-0.44	-0.35	-0.26
		Mz	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03
	TB-450-B1	N	75.889	75.889	75.889	75.889	75.889	75.889	75.889
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-3.282	-3.282	-3.282	-3.282	-3.282	-3.282	-3.282
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.40	-4.78	-4.16	-3.54	-2.93	-2.31	-1.69
		Mz	0.01	0.02	0.02	0.02	0.02	0.02	0.03
	TB-450-B2	N	32.921	32.921	32.921	32.921	32.921	32.921	32.921
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-1.433	-1.433	-1.433	-1.433	-1.433	-1.433	-1.433
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.35	-2.08	-1.81	-1.54	-1.27	-1.00	-0.73
		Mz	0.05	0.05	0.05	0.05	0.04	0.04	0.04
	TB-450-C1	N	56.633	56.633	56.633	56.633	56.633	56.633	56.633
		Vy	1.125	1.125	1.125	1.125	1.125	1.125	1.125
		Vz	-3.104	-3.104	-3.104	-3.104	-3.104	-3.104	-3.104
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-3.14	-2.56	-1.97	-1.39	-0.80	-0.22	0.36
		Mz	0.15	-0.06	-0.27	-0.48	-0.70	-0.91	-1.12
	TB-450-C2	N	127.475	127.475	127.475	127.475	127.475	127.475	127.475
		Vy	1.090	1.090	1.090	1.090	1.090	1.090	1.090

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-7.015	-7.015	-7.015	-7.015	-7.015	-7.015	-7.015
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-7.19	-5.87	-4.55	-3.23	-1.91	-0.59	0.73
		Mz	0.03	-0.18	-0.38	-0.59	-0.79	-1.00	-1.20
	TB-450-D1	N	156.540	156.540	156.540	156.540	156.540	156.540	156.540
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	-15.414	-15.414	-15.414	-15.414	-15.414	-15.414	-15.414
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.76	28.66	31.56	34.46	37.36	40.26	43.16
		Mz	-0.63	-0.63	-0.62	-0.62	-0.61	-0.61	-0.60
	TB-450-D2	N	68.439	68.439	68.439	68.439	68.439	68.439	68.439
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-6.608	-6.608	-6.608	-6.608	-6.608	-6.608	-6.608
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	10.77	12.01	13.25	14.49	15.74	16.98	18.22
		Mz	0.48	0.48	0.49	0.50	0.50	0.51	0.51
	TB-450-E1	N	62.432	62.432	62.432	62.432	62.432	62.432	62.432
		Vy	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136
		Vz	7.719	7.719	7.719	7.719	7.719	7.719	7.719
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	23.72	22.27	20.81	19.36	17.91	16.46	15.01
		Mz	-0.03	-0.01	0.02	0.04	0.07	0.09	0.12
	TB-450-E2	N	29.805	29.805	29.805	29.805	29.805	29.805	29.805
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	3.346	3.346	3.346	3.346	3.346	3.346	3.346
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.36	9.73	9.10	8.47	7.85	7.22	6.59
		Mz	-0.52	-0.52	-0.51	-0.51	-0.51	-0.50	-0.50

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N69/N219	Peso próprio	N	204.830	204.912	204.994	205.076	205.158	205.240	205.322

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	0.280	0.280	0.280	0.280	0.280	0.280	0.280
		Vz	-8.185	-7.514	-6.842	-6.171	-5.500	-4.829	-4.158
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.08	26.56	27.91	29.13	30.23	31.20	32.05
		Mz	-0.39	-0.44	-0.49	-0.54	-0.60	-0.65	-0.70
	Guarda Corpo	N	57.458	57.458	57.458	57.458	57.458	57.458	57.458
		Vy	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Vz	-2.377	-2.377	-2.377	-2.377	-2.377	-2.377	-2.377
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.12	7.56	8.01	8.46	8.90	9.35	9.80
		Mz	-0.14	-0.16	-0.17	-0.19	-0.21	-0.23	-0.24
	Laje	N	427.348	427.348	427.348	427.348	427.348	427.348	427.348
		Vy	1.069	1.069	1.069	1.069	1.069	1.069	1.069
		Vz	-17.681	-17.681	-17.681	-17.681	-17.681	-17.681	-17.681
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	52.91	56.24	59.56	62.89	66.21	69.54	72.87
		Mz	-1.44	-1.64	-1.84	-2.04	-2.24	-2.44	-2.65
	Pavimentação	N	233.827	233.827	233.827	233.827	233.827	233.827	233.827
		Vy	0.610	0.610	0.610	0.610	0.610	0.610	0.610
		Vz	-9.682	-9.682	-9.682	-9.682	-9.682	-9.682	-9.682
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	28.88	30.70	32.52	34.34	36.16	37.98	39.81
		Mz	-0.81	-0.93	-1.04	-1.16	-1.27	-1.39	-1.50
	Recapeamento	N	106.051	106.051	106.051	106.051	106.051	106.051	106.051
		Vy	0.272	0.272	0.272	0.272	0.272	0.272	0.272
		Vz	-4.388	-4.388	-4.388	-4.388	-4.388	-4.388	-4.388
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	13.12	13.95	14.78	15.60	16.43	17.25	18.08
		Mz	-0.36	-0.42	-0.47	-0.52	-0.57	-0.62	-0.67
	Vento 0	N	53.331	53.254	53.176	53.098	53.021	52.943	52.866
		Vy	4.448	4.720	4.991	5.262	5.533	5.804	6.075
		Vz	-2.454	-2.445	-2.435	-2.426	-2.416	-2.407	-2.397
		Mt	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		My	0.13	0.59	1.05	1.50	1.96	2.41	2.87

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-2.44	-3.30	-4.22	-5.18	-6.20	-7.26	-8.38
	Vento 180	N	-52.848	-52.848	-52.848	-52.848	-52.848	-52.848	-52.848
		Vy	-4.619	-4.619	-4.619	-4.619	-4.619	-4.619	-4.619
		Vz	3.128	3.128	3.128	3.128	3.128	3.128	3.128
		Mt	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
		My	-0.11	-0.70	-1.29	-1.88	-2.46	-3.05	-3.64
		Mz	3.04	3.91	4.78	5.65	6.51	7.38	8.25
	Multidão (Passeio)	N	74.413	74.413	74.413	74.413	74.413	74.413	74.413
		Vy	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Vz	-3.079	-3.079	-3.079	-3.079	-3.079	-3.079	-3.079
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.22	9.80	10.38	10.96	11.54	12.12	12.70
		Mz	-0.09	-0.10	-0.11	-0.11	-0.12	-0.13	-0.14
	Multidão - TB450	N	244.114	244.114	244.114	244.114	244.114	244.114	244.114
		Vy	0.820	0.820	0.820	0.820	0.820	0.820	0.820
		Vz	-10.102	-10.102	-10.102	-10.102	-10.102	-10.102	-10.102
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	30.20	32.10	34.00	35.90	37.80	39.70	41.60
		Mz	-1.05	-1.21	-1.36	-1.51	-1.67	-1.82	-1.98
	TB-450-A1	N	26.344	26.344	26.344	26.344	26.344	26.344	26.344
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-1.126	-1.126	-1.126	-1.126	-1.126	-1.126	-1.126
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.62	-0.41	-0.20	0.02	0.23	0.44	0.65
		Mz	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A2	N	11.150	11.150	11.150	11.150	11.150	11.150	11.150
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-0.478	-0.478	-0.478	-0.478	-0.478	-0.478	-0.478
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.26	-0.17	-0.08	0.01	0.10	0.19	0.28
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.04	-0.04
	TB-450-B1	N	75.889	75.889	75.889	75.889	75.889	75.889	75.889
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-3.282	-3.282	-3.282	-3.282	-3.282	-3.282	-3.282

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.69	-1.07	-0.46	0.16	0.78	1.40	2.01
		Mz	0.03	0.03	0.03	0.03	0.03	0.03	0.04
	TB-450-B2	N	32.921	32.921	32.921	32.921	32.921	32.921	32.921
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-1.433	-1.433	-1.433	-1.433	-1.433	-1.433	-1.433
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.73	-0.47	-0.20	0.07	0.34	0.61	0.88
		Mz	0.04	0.03	0.03	0.03	0.02	0.02	0.02
	TB-450-C1	N	56.633	56.633	56.633	56.633	56.633	56.633	56.633
		Vy	1.125	1.125	1.125	1.125	1.125	1.125	1.125
		Vz	-3.104	-3.104	-3.104	-3.104	-3.104	-3.104	-3.104
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	0.36	0.95	1.53	2.12	2.70	3.28	3.87
		Mz	-1.12	-1.33	-1.54	-1.75	-1.97	-2.18	-2.39
	TB-450-C2	N	127.475	127.475	127.475	127.475	127.475	127.475	127.475
		Vy	1.090	1.090	1.090	1.090	1.090	1.090	1.090
		Vz	-7.015	-7.015	-7.015	-7.015	-7.015	-7.015	-7.015
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	0.73	2.05	3.37	4.69	6.01	7.33	8.65
		Mz	-1.20	-1.41	-1.61	-1.82	-2.02	-2.23	-2.43
	TB-450-D1	N	156.540	156.540	156.540	156.540	156.540	156.540	156.540
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	-15.414	-15.414	-15.414	-15.414	-15.414	-15.414	-15.414
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	43.16	46.06	48.96	51.86	54.76	57.66	60.56
		Mz	-0.60	-0.59	-0.59	-0.58	-0.58	-0.57	-0.57
	TB-450-D2	N	68.439	68.439	68.439	68.439	68.439	68.439	68.439
		Vy	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vz	-6.608	-6.608	-6.608	-6.608	-6.608	-6.608	-6.608
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	18.22	19.47	20.71	21.95	23.20	24.44	25.68
		Mz	0.51	0.52	0.52	0.53	0.53	0.54	0.54
	TB-450-E1	N	62.432	62.432	62.432	62.432	62.432	62.432	62.432

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136
		Vz	7.719	7.719	7.719	7.719	7.719	7.719	7.719
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	15.01	13.55	12.10	10.65	9.20	7.75	6.29
		Mz	0.12	0.15	0.17	0.20	0.22	0.25	0.27
	TB-450-E2	N	29.805	29.805	29.805	29.805	29.805	29.805	29.805
		Vy	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vz	3.346	3.346	3.346	3.346	3.346	3.346	3.346
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.59	5.96	5.33	4.70	4.07	3.44	2.81
		Mz	-0.50	-0.50	-0.49	-0.49	-0.49	-0.48	-0.48

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N219/N38	Peso próprio	N	216.488	216.542	216.596
		Vy	0.285	0.285	0.285
		Vz	-110.878	-110.432	-109.986
		Mt	-0.04	-0.04	-0.04
		My	4.99	18.82	32.60
		Mz	-0.70	-0.74	-0.77
	Guarda Corpo	N	60.614	60.614	60.614
		Vy	0.096	0.096	0.096
		Vz	-36.974	-36.974	-36.974
		Mt	-0.02	-0.02	-0.02
		My	2.24	6.87	11.49
		Mz	-0.24	-0.26	-0.27
	Laje	N	450.774	450.774	450.774
		Vy	1.111	1.111	1.111
		Vz	-274.487	-274.487	-274.487
		Mt	-0.30	-0.30	-0.30
		My	16.79	51.11	85.42
		Mz	-2.65	-2.79	-2.93

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	246.659	246.659	246.659
		Vy	0.634	0.634	0.634
		Vz	-150.306	-150.306	-150.306
		Mt	-0.17	-0.17	-0.17
		My	9.09	27.88	46.66
		Mz	-1.50	-1.58	-1.66
	Recapeamento	N	111.865	111.865	111.865
		Vy	0.283	0.283	0.283
		Vz	-68.119	-68.119	-68.119
		Mt	-0.08	-0.08	-0.08
		My	4.16	12.68	21.19
		Mz	-0.67	-0.71	-0.74
	Vento 0	N	53.961	53.909	53.858
		Vy	8.999	9.179	9.359
		Vz	-20.866	-20.860	-20.854
		Mt	-2.66	-2.66	-2.66
		My	-0.76	1.85	4.46
		Mz	-8.43	-9.56	-10.72
	Vento 180	N	-54.678	-54.678	-54.678
		Vy	-5.025	-5.025	-5.025
		Vz	21.635	21.635	21.635
		Mt	2.73	2.73	2.73
		My	0.89	-1.81	-4.51
		Mz	8.32	8.95	9.58
	Multidão (Passeio)	N	78.509	78.509	78.509
		Vy	0.041	0.041	0.041
		Vz	-47.983	-47.983	-47.983
		Mt	0.00	0.00	0.00
		My	2.89	8.89	14.89
		Mz	-0.14	-0.14	-0.15
	Multidão - TB450	N	257.476	257.476	257.476
		Vy	0.854	0.854	0.854
		Vz	-156.562	-156.562	-156.562
		Mt	-0.24	-0.24	-0.24

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	9.61	29.19	48.76
		Mz	-1.98	-2.09	-2.20
	TB-450-A1	N	28.674	28.674	28.674
		Vy	0.005	0.005	0.005
		Vz	-24.500	-24.500	-24.500
		Mt	0.00	0.00	0.00
		My	-5.22	-2.15	0.91
		Mz	-0.01	-0.01	-0.01
	TB-450-A2	N	12.154	12.154	12.154
		Vy	0.006	0.006	0.006
		Vz	-10.544	-10.544	-10.544
		Mt	0.00	0.00	0.00
		My	-2.25	-0.93	0.38
		Mz	-0.04	-0.04	-0.04
	TB-450-B1	N	82.610	82.610	82.610
		Vy	-0.016	-0.016	-0.016
		Vz	-70.758	-70.758	-70.758
		Mt	0.05	0.05	0.05
		My	-14.91	-6.07	2.78
		Mz	0.04	0.04	0.04
	TB-450-B2	N	35.779	35.779	35.779
		Vy	0.022	0.022	0.022
		Vz	-30.117	-30.117	-30.117
		Mt	-0.03	-0.03	-0.03
		My	-6.31	-2.55	1.22
		Mz	0.02	0.01	0.01
	TB-450-C1	N	61.181	61.181	61.181
		Vy	1.185	1.185	1.185
		Vz	-48.934	-48.934	-48.934
		Mt	-0.42	-0.42	-0.42
		My	-7.52	-1.40	4.71
		Mz	-2.40	-2.55	-2.70
	TB-450-C2	N	138.168	138.168	138.168
		Vy	1.134	1.134	1.134

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-114.828	-114.828	-114.828
		Mt	-0.32	-0.32	-0.32
		My	-18.14	-3.78	10.57
		Mz	-2.44	-2.58	-2.73
	TB-450-D1	N	163.531	163.531	163.531
		Vy	-0.026	-0.026	-0.026
		Vz	-108.222	-108.222	-108.222
		Mt	-0.02	-0.02	-0.02
		My	45.65	59.18	72.71
		Mz	-0.57	-0.56	-0.56
	TB-450-D2	N	71.416	71.416	71.416
		Vy	-0.014	-0.014	-0.014
		Vz	-46.047	-46.047	-46.047
		Mt	-0.08	-0.08	-0.08
		My	19.33	25.08	30.84
		Mz	0.54	0.54	0.54
	TB-450-E1	N	61.267	61.267	61.267
		Vy	-0.153	-0.153	-0.153
		Vz	18.995	18.995	18.995
		Mt	0.11	0.11	0.11
		My	9.55	7.17	4.80
		Mz	0.28	0.30	0.31
	TB-450-E2	N	29.194	29.194	29.194
		Vy	-0.033	-0.033	-0.033
		Vz	9.358	9.358	9.358
		Mt	0.10	0.10	0.10
		My	4.48	3.31	2.14
		Mz	-0.48	-0.47	-0.47

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N38/N218	Peso próprio	N	218.278	218.332	218.387

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-1.078	-1.078	-1.078
		Vz	-97.384	-96.938	-96.492
		Mt	-0.09	-0.09	-0.09
		My	32.16	44.31	56.40
		Mz	-0.73	-0.60	-0.46
	Guarda Corpo	N	62.620	62.620	62.620
		Vy	-0.318	-0.318	-0.318
		Vz	-21.779	-21.779	-21.779
		Mt	-0.02	-0.02	-0.02
		My	10.93	13.65	16.37
		Mz	-0.25	-0.21	-0.17
	Laje	N	466.687	466.687	466.687
		Vy	-3.806	-3.806	-3.806
		Vz	-161.670	-161.670	-161.670
		Mt	-0.18	-0.18	-0.18
		My	81.20	101.41	121.62
		Mz	-2.73	-2.26	-1.78
	Pavimentação	N	255.415	255.415	255.415
		Vy	-2.173	-2.173	-2.173
		Vz	-88.749	-88.749	-88.749
		Mt	-0.10	-0.10	-0.10
		My	44.36	55.45	66.54
		Mz	-1.55	-1.28	-1.01
	Recapeamento	N	115.831	115.831	115.831
		Vy	-0.972	-0.972	-0.972
		Vz	-40.138	-40.138	-40.138
		Mt	-0.05	-0.05	-0.05
		My	20.14	25.16	30.18
		Mz	-0.69	-0.57	-0.45
	Vento 0	N	68.124	68.072	68.021
		Vy	8.804	8.984	9.164
		Vz	-20.229	-20.223	-20.217
		Mt	1.10	1.10	1.10
		My	1.46	3.98	6.51

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-10.10	-11.21	-12.34
	Vento 180	N	-66.474	-66.474	-66.474
		Vy	-12.403	-12.403	-12.403
		Vz	20.734	20.734	20.734
		Mt	-0.99	-0.99	-0.99
		My	-1.54	-4.13	-6.72
		Mz	9.25	10.80	12.35
	Multidão (Passeio)	N	80.898	80.898	80.898
		Vy	-0.107	-0.107	-0.107
		Vz	-28.252	-28.252	-28.252
		Mt	-0.02	-0.02	-0.02
		My	14.18	17.71	21.24
		Mz	-0.14	-0.13	-0.12
	Multidão - TB450	N	267.111	267.111	267.111
		Vy	-2.974	-2.974	-2.974
		Vz	-92.278	-92.278	-92.278
		Mt	-0.12	-0.12	-0.12
		My	46.32	57.85	69.39
		Mz	-2.04	-1.67	-1.30
	TB-450-A1	N	28.499	28.499	28.499
		Vy	0.334	0.334	0.334
		Vz	-24.486	-24.486	-24.486
		Mt	-0.01	-0.01	-0.01
		My	0.92	3.98	7.04
		Mz	-0.02	-0.07	-0.11
	TB-450-A2	N	11.948	11.948	11.948
		Vy	0.280	0.280	0.280
		Vz	-10.534	-10.534	-10.534
		Mt	-0.02	-0.02	-0.02
		My	0.40	1.72	3.04
		Mz	-0.05	-0.09	-0.12
	TB-450-B1	N	82.215	82.215	82.215
		Vy	0.242	0.242	0.242
		Vz	-70.758	-70.758	-70.758

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-0.03	-0.03	-0.03
		My	2.84	11.69	20.53
		Mz	0.02	-0.01	-0.04
	TB-450-B2	N	36.017	36.017	36.017
		Vy	-0.171	-0.171	-0.171
		Vz	-30.115	-30.115	-30.115
		Mt	0.02	0.02	0.02
		My	1.17	4.94	8.70
		Mz	0.03	0.05	0.07
	TB-450-C1	N	64.423	64.423	64.423
		Vy	-3.809	-3.809	-3.809
		Vz	-49.070	-49.070	-49.070
		Mt	-0.05	-0.05	-0.05
		My	4.43	10.57	16.70
		Mz	-2.46	-1.98	-1.50
	TB-450-C2	N	140.726	140.726	140.726
		Vy	-4.198	-4.198	-4.198
		Vz	-115.032	-115.032	-115.032
		Mt	-0.16	-0.16	-0.16
		My	10.46	24.84	39.21
		Mz	-2.51	-1.98	-1.46
	TB-450-D1	N	178.387	178.387	178.387
		Vy	-0.254	-0.254	-0.254
		Vz	13.854	13.854	13.854
		Mt	0.00	0.00	0.00
		My	68.22	66.49	64.76
		Mz	-0.55	-0.52	-0.49
	TB-450-D2	N	78.095	78.095	78.095
		Vy	0.555	0.555	0.555
		Vz	5.570	5.570	5.570
		Mt	0.11	0.11	0.11
		My	28.80	28.10	27.41
		Mz	0.55	0.49	0.42
	TB-450-E1	N	60.472	60.472	60.472

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.050	0.050	0.050
		Vz	18.993	18.993	18.993
		Mt	-0.11	-0.11	-0.11
		My	4.97	2.59	0.22
		Mz	0.27	0.27	0.26
	TB-450-E2	N	28.828	28.828	28.828
		Vy	-0.410	-0.410	-0.410
		Vz	9.334	9.334	9.334
		Mt	-0.06	-0.06	-0.06
		My	2.27	1.10	-0.07
		Mz	-0.48	-0.43	-0.38

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N218/N70	Peso próprio	N	247.342	247.424	247.506	247.588	247.670	247.752	247.834
		Vy	-1.073	-1.073	-1.073	-1.073	-1.073	-1.073	-1.073
		Vz	-9.205	-8.534	-7.863	-7.192	-6.521	-5.850	-5.179
		Mt	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
		My	29.78	31.45	32.99	34.41	35.70	36.86	37.90
		Mz	-0.43	-0.23	-0.03	0.18	0.38	0.58	0.78
	Guarda Corpo	N	69.777	69.777	69.777	69.777	69.777	69.777	69.777
		Vy	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316
		Vz	-1.353	-1.353	-1.353	-1.353	-1.353	-1.353	-1.353
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	9.07	9.32	9.58	9.83	10.09	10.34	10.59
		Mz	-0.16	-0.10	-0.04	0.02	0.08	0.14	0.20
	Laje	N	519.752	519.752	519.752	519.752	519.752	519.752	519.752
		Vy	-3.776	-3.776	-3.776	-3.776	-3.776	-3.776	-3.776
		Vz	-10.229	-10.229	-10.229	-10.229	-10.229	-10.229	-10.229
		Mt	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67
		My	67.43	69.36	71.28	73.20	75.13	77.05	78.98
		Mz	-1.65	-0.94	-0.23	0.48	1.19	1.90	2.61

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Pavimentação	N	284.523	284.523	284.523	284.523	284.523	284.523	284.523
		Vy	-2.156	-2.156	-2.156	-2.156	-2.156	-2.156	-2.156
		Vz	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663
		Mt	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38
		My	36.84	37.90	38.97	40.03	41.10	42.16	43.23
		Mz	-0.93	-0.53	-0.12	0.28	0.69	1.09	1.50
	Recapeamento	N	129.003	129.003	129.003	129.003	129.003	129.003	129.003
		Vy	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964
		Vz	-2.546	-2.546	-2.546	-2.546	-2.546	-2.546	-2.546
		Mt	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
		My	16.73	17.21	17.69	18.17	18.65	19.12	19.60
		Mz	-0.42	-0.24	-0.06	0.13	0.31	0.49	0.67
	Vento 0	N	73.124	73.046	72.969	72.891	72.814	72.736	72.659
		Vy	12.385	12.656	12.927	13.199	13.470	13.741	14.012
		Vz	-2.473	-2.464	-2.454	-2.445	-2.435	-2.426	-2.417
		Mt	-3.57	-3.57	-3.57	-3.57	-3.57	-3.57	-3.57
		My	2.31	2.78	3.24	3.70	4.16	4.61	5.07
		Mz	-11.34	-13.70	-16.11	-18.56	-21.07	-23.63	-26.24
	Vento 180	N	-72.325	-72.325	-72.325	-72.325	-72.325	-72.325	-72.325
		Vy	-12.987	-12.987	-12.987	-12.987	-12.987	-12.987	-12.987
		Vz	3.139	3.139	3.139	3.139	3.139	3.139	3.139
		Mt	3.37	3.37	3.37	3.37	3.37	3.37	3.37
		My	-1.55	-2.14	-2.74	-3.33	-3.92	-4.51	-5.10
		Mz	11.22	13.67	16.11	18.55	21.00	23.44	25.88
	Multidão (Passeio)	N	90.197	90.197	90.197	90.197	90.197	90.197	90.197
		Vy	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106
		Vz	-1.714	-1.714	-1.714	-1.714	-1.714	-1.714	-1.714
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	11.75	12.07	12.39	12.71	13.04	13.36	13.68
		Mz	-0.11	-0.09	-0.07	-0.05	-0.03	-0.01	0.01
	Multidão - TB450	N	297.358	297.358	297.358	297.358	297.358	297.358	297.358
		Vy	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950
		Vz	-5.953	-5.953	-5.953	-5.953	-5.953	-5.953	-5.953
		Mt	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	38.50	39.62	40.74	41.86	42.98	44.10	45.22
		Mz	-1.20	-0.64	-0.09	0.47	1.02	1.58	2.13
	TB-450-A1	N	36.487	36.487	36.487	36.487	36.487	36.487	36.487
		Vy	0.337	0.337	0.337	0.337	0.337	0.337	0.337
		Vz	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	-0.24	-0.07	0.09	0.26	0.42	0.59	0.75
		Mz	-0.10	-0.16	-0.23	-0.29	-0.35	-0.42	-0.48
	TB-450-A2	N	15.388	15.388	15.388	15.388	15.388	15.388	15.388
		Vy	0.282	0.282	0.282	0.282	0.282	0.282	0.282
		Vz	-0.365	-0.365	-0.365	-0.365	-0.365	-0.365	-0.365
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	-0.10	-0.03	0.04	0.11	0.18	0.25	0.31
		Mz	-0.12	-0.17	-0.22	-0.28	-0.33	-0.38	-0.43
	TB-450-B1	N	105.194	105.194	105.194	105.194	105.194	105.194	105.194
		Vy	0.237	0.237	0.237	0.237	0.237	0.237	0.237
		Vz	-2.846	-2.846	-2.846	-2.846	-2.846	-2.846	-2.846
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.41	0.12	0.66	1.19	1.73	2.26	2.80
		Mz	-0.05	-0.09	-0.13	-0.18	-0.22	-0.27	-0.31
	TB-450-B2	N	45.785	45.785	45.785	45.785	45.785	45.785	45.785
		Vy	-0.168	-0.168	-0.168	-0.168	-0.168	-0.168	-0.168
		Vz	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.20	0.04	0.27	0.50	0.74	0.97	1.21
		Mz	0.07	0.10	0.14	0.17	0.20	0.23	0.26
	TB-450-C1	N	78.722	78.722	78.722	78.722	78.722	78.722	78.722
		Vy	-3.760	-3.760	-3.760	-3.760	-3.760	-3.760	-3.760
		Vz	-6.810	-6.810	-6.810	-6.810	-6.810	-6.810	-6.810
		Mt	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61
		My	3.50	4.78	6.06	7.35	8.63	9.91	11.19
		Mz	-1.36	-0.65	0.06	0.76	1.47	2.18	2.89
	TB-450-C2	N	174.483	174.483	174.483	174.483	174.483	174.483	174.483
		Vy	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-15.308	-15.308	-15.308	-15.308	-15.308	-15.308	-15.308
		Mt	-0.62	-0.62	-0.62	-0.62	-0.62	-0.62	-0.62
		My	8.05	10.93	13.81	16.69	19.57	22.45	25.33
		Mz	-1.34	-0.55	0.23	1.02	1.80	2.58	3.37
	TB-450-D1	N	178.035	178.035	178.035	178.035	178.035	178.035	178.035
		Vy	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255
		Vz	7.068	7.068	7.068	7.068	7.068	7.068	7.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	59.40	58.07	56.74	55.41	54.08	52.75	51.42
		Mz	-0.49	-0.44	-0.39	-0.35	-0.30	-0.25	-0.20
	TB-450-D2	N	78.013	78.013	78.013	78.013	78.013	78.013	78.013
		Vy	0.570	0.570	0.570	0.570	0.570	0.570	0.570
		Vz	2.902	2.902	2.902	2.902	2.902	2.902	2.902
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	25.08	24.54	23.99	23.45	22.90	22.35	21.81
		Mz	0.44	0.34	0.23	0.12	0.01	-0.09	-0.20
	TB-450-E1	N	54.398	54.398	54.398	54.398	54.398	54.398	54.398
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	0.993	0.993	0.993	0.993	0.993	0.993	0.993
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	5.55	5.37	5.18	4.99	4.81	4.62	4.43
		Mz	0.23	0.22	0.22	0.21	0.21	0.20	0.19
	TB-450-E2	N	25.826	25.826	25.826	25.826	25.826	25.826	25.826
		Vy	-0.424	-0.424	-0.424	-0.424	-0.424	-0.424	-0.424
		Vz	0.438	0.438	0.438	0.438	0.438	0.438	0.438
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	2.57	2.49	2.41	2.32	2.24	2.16	2.08
		Mz	-0.40	-0.32	-0.24	-0.16	-0.08	0.00	0.08

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N70/N217	Peso próprio	N	247.834	247.916	247.998	248.079	248.161	248.243	248.325

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	-1.073	-1.073	-1.073	-1.073	-1.073	-1.073	-1.073
		Vz	-5.179	-4.508	-3.837	-3.165	-2.494	-1.823	-1.152
		Mt	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
		My	37.90	38.81	39.60	40.26	40.79	41.19	41.47
		Mz	0.78	0.98	1.18	1.39	1.59	1.79	1.99
	Guarda Corpo	N	69.777	69.777	69.777	69.777	69.777	69.777	69.777
		Vy	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316
		Vz	-1.353	-1.353	-1.353	-1.353	-1.353	-1.353	-1.353
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	10.59	10.85	11.10	11.36	11.61	11.87	12.12
		Mz	0.20	0.26	0.31	0.37	0.43	0.49	0.55
	Laje	N	519.752	519.752	519.752	519.752	519.752	519.752	519.752
		Vy	-3.776	-3.776	-3.776	-3.776	-3.776	-3.776	-3.776
		Vz	-10.229	-10.229	-10.229	-10.229	-10.229	-10.229	-10.229
		Mt	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67
		My	78.98	80.90	82.83	84.75	86.67	88.60	90.52
		Mz	2.61	3.32	4.03	4.74	5.45	6.16	6.87
	Pavimentação	N	284.523	284.523	284.523	284.523	284.523	284.523	284.523
		Vy	-2.156	-2.156	-2.156	-2.156	-2.156	-2.156	-2.156
		Vz	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663	-5.663
		Mt	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38
		My	43.23	44.29	45.36	46.42	47.49	48.55	49.62
		Mz	1.50	1.90	2.31	2.72	3.12	3.53	3.93
	Recapeamento	N	129.003	129.003	129.003	129.003	129.003	129.003	129.003
		Vy	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964
		Vz	-2.546	-2.546	-2.546	-2.546	-2.546	-2.546	-2.546
		Mt	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
		My	19.60	20.08	20.56	21.04	21.52	22.00	22.48
		Mz	0.67	0.85	1.03	1.21	1.39	1.58	1.76
	Vento 0	N	72.659	72.581	72.503	72.426	72.348	72.271	72.193
		Vy	14.012	14.283	14.554	14.825	15.096	15.368	15.639
		Vz	-2.417	-2.407	-2.398	-2.388	-2.379	-2.369	-2.360
		Mt	-3.57	-3.57	-3.57	-3.57	-3.57	-3.57	-3.57
		My	5.07	5.52	5.98	6.43	6.87	7.32	7.77

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-26.24	-28.90	-31.61	-34.38	-37.19	-40.06	-42.97
	Vento 180	N	-72.325	-72.325	-72.325	-72.325	-72.325	-72.325	-72.325
		Vy	-12.987	-12.987	-12.987	-12.987	-12.987	-12.987	-12.987
		Vz	3.139	3.139	3.139	3.139	3.139	3.139	3.139
		Mt	3.37	3.37	3.37	3.37	3.37	3.37	3.37
		My	-5.10	-5.69	-6.28	-6.87	-7.46	-8.05	-8.64
		Mz	25.88	28.33	30.77	33.21	35.65	38.10	40.54
	Multidão (Passeio)	N	90.197	90.197	90.197	90.197	90.197	90.197	90.197
		Vy	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106
		Vz	-1.714	-1.714	-1.714	-1.714	-1.714	-1.714	-1.714
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	13.68	14.00	14.33	14.65	14.97	15.29	15.62
		Mz	0.01	0.03	0.05	0.07	0.09	0.11	0.13
	Multidão - TB450	N	297.358	297.358	297.358	297.358	297.358	297.358	297.358
		Vy	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950
		Vz	-5.953	-5.953	-5.953	-5.953	-5.953	-5.953	-5.953
		Mt	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49
		My	45.22	46.34	47.46	48.58	49.70	50.82	51.94
		Mz	2.13	2.69	3.24	3.80	4.35	4.90	5.46
	TB-450-A1	N	36.487	36.487	36.487	36.487	36.487	36.487	36.487
		Vy	0.337	0.337	0.337	0.337	0.337	0.337	0.337
		Vz	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	0.75	0.92	1.08	1.25	1.41	1.58	1.74
		Mz	-0.48	-0.54	-0.61	-0.67	-0.73	-0.80	-0.86
	TB-450-A2	N	15.388	15.388	15.388	15.388	15.388	15.388	15.388
		Vy	0.282	0.282	0.282	0.282	0.282	0.282	0.282
		Vz	-0.365	-0.365	-0.365	-0.365	-0.365	-0.365	-0.365
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	0.31	0.38	0.45	0.52	0.59	0.66	0.73
		Mz	-0.43	-0.49	-0.54	-0.59	-0.65	-0.70	-0.75
	TB-450-B1	N	105.194	105.194	105.194	105.194	105.194	105.194	105.194
		Vy	0.237	0.237	0.237	0.237	0.237	0.237	0.237
		Vz	-2.846	-2.846	-2.846	-2.846	-2.846	-2.846	-2.846

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	2.80	3.33	3.87	4.40	4.94	5.47	6.01
		Mz	-0.31	-0.36	-0.40	-0.45	-0.49	-0.54	-0.58
	TB-450-B2	N	45.785	45.785	45.785	45.785	45.785	45.785	45.785
		Vy	-0.168	-0.168	-0.168	-0.168	-0.168	-0.168	-0.168
		Vz	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246	-1.246
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	1.21	1.44	1.68	1.91	2.15	2.38	2.61
		Mz	0.26	0.29	0.33	0.36	0.39	0.42	0.45
	TB-450-C1	N	78.722	78.722	78.722	78.722	78.722	78.722	78.722
		Vy	-3.760	-3.760	-3.760	-3.760	-3.760	-3.760	-3.760
		Vz	-6.810	-6.810	-6.810	-6.810	-6.810	-6.810	-6.810
		Mt	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61
		My	11.19	12.47	13.75	15.03	16.31	17.59	18.87
		Mz	2.89	3.59	4.30	5.01	5.71	6.42	7.13
	TB-450-C2	N	174.483	174.483	174.483	174.483	174.483	174.483	174.483
		Vy	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167
		Vz	-15.308	-15.308	-15.308	-15.308	-15.308	-15.308	-15.308
		Mt	-0.62	-0.62	-0.62	-0.62	-0.62	-0.62	-0.62
		My	25.33	28.21	31.09	33.97	36.85	39.73	42.61
		Mz	3.37	4.15	4.94	5.72	6.50	7.29	8.07
	TB-450-D1	N	178.035	178.035	178.035	178.035	178.035	178.035	178.035
		Vy	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255
		Vz	7.068	7.068	7.068	7.068	7.068	7.068	7.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	51.42	50.09	48.76	47.43	46.10	44.78	43.45
		Mz	-0.20	-0.15	-0.11	-0.06	-0.01	0.04	0.09
	TB-450-D2	N	78.013	78.013	78.013	78.013	78.013	78.013	78.013
		Vy	0.570	0.570	0.570	0.570	0.570	0.570	0.570
		Vz	2.902	2.902	2.902	2.902	2.902	2.902	2.902
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	21.81	21.26	20.72	20.17	19.62	19.08	18.53
		Mz	-0.20	-0.31	-0.41	-0.52	-0.63	-0.74	-0.84
	TB-450-E1	N	54.398	54.398	54.398	54.398	54.398	54.398	54.398

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	0.993	0.993	0.993	0.993	0.993	0.993	0.993
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	4.43	4.25	4.06	3.87	3.69	3.50	3.31
		Mz	0.19	0.19	0.18	0.18	0.17	0.16	0.16
	TB-450-E2	N	25.826	25.826	25.826	25.826	25.826	25.826	25.826
		Vy	-0.424	-0.424	-0.424	-0.424	-0.424	-0.424	-0.424
		Vz	0.438	0.438	0.438	0.438	0.438	0.438	0.438
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	2.08	1.99	1.91	1.83	1.75	1.67	1.58
		Mz	0.08	0.16	0.24	0.32	0.40	0.48	0.56

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N217/N11	Peso próprio	N	254.785	254.840	254.894
		Vy	-0.727	-0.727	-0.727
		Vz	-66.516	-66.070	-65.624
		Mt	-2.30	-2.30	-2.30
		My	26.73	35.02	43.25
		Mz	1.94	2.03	2.12
	Guarda Corpo	N	71.536	71.536	71.536
		Vy	-0.209	-0.209	-0.209
		Vz	-23.473	-23.473	-23.473
		Mt	-0.72	-0.72	-0.72
		My	8.20	11.14	14.07
		Mz	0.54	0.56	0.59
	Laje	N	532.774	532.774	532.774
		Vy	-2.635	-2.635	-2.635
		Vz	-174.430	-174.430	-174.430
		Mt	-7.71	-7.71	-7.71
		My	61.55	83.35	105.15
		Mz	6.70	7.03	7.36

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	291.666	291.666	291.666
		Vy	-1.509	-1.509	-1.509
		Vz	-95.735	-95.735	-95.735
		Mt	-4.37	-4.37	-4.37
		My	33.72	45.69	57.66
		Mz	3.84	4.02	4.21
	Recapeamento	N	132.235	132.235	132.235
		Vy	-0.675	-0.675	-0.675
		Vz	-43.307	-43.307	-43.307
		Mt	-1.96	-1.96	-1.96
		My	15.29	20.70	26.11
		Mz	1.71	1.80	1.88
	Vento 0	N	72.794	72.742	72.691
		Vy	24.565	24.745	24.925
		Vz	-17.923	-17.917	-17.911
		Mt	-42.03	-42.03	-42.03
		My	5.54	7.78	10.02
		Mz	-43.89	-46.98	-50.08
	Vento 180	N	-73.656	-73.656	-73.656
		Vy	-19.138	-19.138	-19.138
		Vz	18.645	18.645	18.645
		Mt	40.29	40.29	40.29
		My	-5.52	-7.85	-10.18
		Mz	41.44	43.84	46.23
	Multidão (Passeio)	N	92.486	92.486	92.486
		Vy	-0.041	-0.041	-0.041
		Vz	-30.415	-30.415	-30.415
		Mt	-0.45	-0.45	-0.45
		My	10.51	14.31	18.11
		Mz	0.12	0.12	0.13
	Multidão - TB450	N	304.770	304.770	304.770
		Vy	-2.107	-2.107	-2.107
		Vz	-99.650	-99.650	-99.650
		Mt	-5.70	-5.70	-5.70

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Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	35.46	47.92	60.38
		Mz	5.33	5.60	5.86
	TB-450-A1	N	38.838	38.838	38.838
		Vy	0.416	0.416	0.416
		Vz	-25.334	-25.334	-25.334
		Mt	-0.52	-0.52	-0.52
		My	-4.13	-0.96	2.21
		Mz	-0.87	-0.92	-0.98
	TB-450-A2	N	16.400	16.400	16.400
		Vy	0.356	0.356	0.356
		Vz	-10.879	-10.879	-10.879
		Mt	-0.49	-0.49	-0.49
		My	-1.80	-0.44	0.92
		Mz	-0.76	-0.81	-0.85
	TB-450-B1	N	111.920	111.920	111.920
		Vy	0.257	0.257	0.257
		Vz	-72.972	-72.972	-72.972
		Mt	-0.13	-0.13	-0.13
		My	-10.74	-1.62	7.50
		Mz	-0.58	-0.62	-0.65
	TB-450-B2	N	48.644	48.644	48.644
		Vy	-0.176	-0.176	-0.176
		Vz	-31.066	-31.066	-31.066
		Mt	0.05	0.05	0.05
		My	-4.50	-0.62	3.26
		Mz	0.45	0.48	0.50
	TB-450-C1	N	82.354	82.354	82.354
		Vy	-2.698	-2.698	-2.698
		Vz	-50.692	-50.692	-50.692
		Mt	-7.15	-7.15	-7.15
		My	10.48	16.82	23.16
		Mz	6.97	7.31	7.65
	TB-450-C2	N	183.120	183.120	183.120
		Vy	-3.103	-3.103	-3.103

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-118.423	-118.423	-118.423
		Mt	-7.19	-7.19	-7.19
		My	22.55	37.36	52.16
		Mz	7.91	8.30	8.69
	TB-450-D1	N	176.691	176.691	176.691
		Vy	-0.270	-0.270	-0.270
		Vz	5.344	5.344	5.344
		Mt	0.09	0.09	0.09
		My	48.90	48.23	47.57
		Mz	0.09	0.12	0.16
	TB-450-D2	N	77.462	77.462	77.462
		Vy	0.581	0.581	0.581
		Vz	1.957	1.957	1.957
		Mt	-0.06	-0.06	-0.06
		My	20.80	20.56	20.31
		Mz	-0.85	-0.92	-0.99
	TB-450-E1	N	52.402	52.402	52.402
		Vy	-0.004	-0.004	-0.004
		Vz	20.218	20.218	20.218
		Mt	0.22	0.22	0.22
		My	8.43	5.90	3.38
		Mz	0.16	0.16	0.16
	TB-450-E2	N	24.848	24.848	24.848
		Vy	-0.497	-0.497	-0.497
		Vz	9.816	9.816	9.816
		Mt	0.48	0.48	0.48
		My	4.09	2.86	1.64
		Mz	0.57	0.63	0.69

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
N7/N76	Peso próprio	N	77.318	77.390	77.462	77.534	77.606	77.678	77.750

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
		Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vz	5.191	6.011	6.831	7.650	8.470	9.290	10.110
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.28	-2.75	-4.41	-6.26	-8.29	-10.51
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06
	Guarda Corpo	N	20.184	20.184	20.184	20.184	20.184	20.184	20.184
		Vy	0.085	0.085	0.085	0.085	0.085	0.085	0.085
		Vz	3.080	3.080	3.080	3.080	3.080	3.080	3.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.71	-1.41	-2.12	-2.82	-3.53	-4.23
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.12
	Laje	N	149.189	149.189	149.189	149.189	149.189	149.189	149.189
		Vy	0.756	0.756	0.756	0.756	0.756	0.756	0.756
		Vz	22.853	22.853	22.853	22.853	22.853	22.853	22.853
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-5.23	-10.46	-15.70	-20.93	-26.16	-31.39
		Mz	0.00	-0.17	-0.35	-0.52	-0.69	-0.87	-1.04
	Pavimentação	N	81.589	81.589	81.589	81.589	81.589	81.589	81.589
		Vy	0.411	0.411	0.411	0.411	0.411	0.411	0.411
		Vz	12.516	12.516	12.516	12.516	12.516	12.516	12.516
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.87	-5.73	-8.60	-11.46	-14.33	-17.19
		Mz	0.00	-0.09	-0.19	-0.28	-0.38	-0.47	-0.56
	Recapeamento	N	37.003	37.003	37.003	37.003	37.003	37.003	37.003
		Vy	0.190	0.190	0.190	0.190	0.190	0.190	0.190
		Vz	5.671	5.671	5.671	5.671	5.671	5.671	5.671
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.30	-2.60	-3.90	-5.19	-6.49	-7.79
		Mz	0.00	-0.04	-0.09	-0.13	-0.17	-0.22	-0.26
	Vento 0	N	-11.088	-10.994	-10.899	-10.804	-10.709	-10.615	-10.520
		Vy	40.010	39.680	39.350	39.020	38.690	38.360	38.030
		Vz	1.588	1.580	1.572	1.563	1.555	1.547	1.538
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.36	-0.72	-1.08	-1.44	-1.79	-2.15

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
		Mz	0.00	-9.12	-18.17	-27.14	-36.04	-44.86	-53.61
	Vento 180	N	9.964	9.964	9.964	9.964	9.964	9.964	9.964
		Vy	-38.122	-38.122	-38.122	-38.122	-38.122	-38.122	-38.122
		Vz	-1.785	-1.785	-1.785	-1.785	-1.785	-1.785	-1.785
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.41	0.82	1.23	1.63	2.04	2.45
		Mz	0.00	8.73	17.46	26.19	34.91	43.64	52.37
	Multidão (Passeio)	N	26.340	26.340	26.340	26.340	26.340	26.340	26.340
		Vy	0.083	0.083	0.083	0.083	0.083	0.083	0.083
		Vz	4.000	4.000	4.000	4.000	4.000	4.000	4.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.92	-1.83	-2.75	-3.66	-4.58	-5.49
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.11
	Multidão - TB450	N	84.694	84.694	84.694	84.694	84.694	84.694	84.694
		Vy	0.501	0.501	0.501	0.501	0.501	0.501	0.501
		Vz	13.028	13.028	13.028	13.028	13.028	13.028	13.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.98	-5.97	-8.95	-11.93	-14.91	-17.90
		Mz	0.00	-0.11	-0.23	-0.34	-0.46	-0.57	-0.69
	TB-450-A1	N	42.950	42.950	42.950	42.950	42.950	42.950	42.950
		Vy	0.384	0.384	0.384	0.384	0.384	0.384	0.384
		Vz	-6.036	-6.036	-6.036	-6.036	-6.036	-6.036	-6.036
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	1.38	2.76	4.15	5.53	6.91	8.29
		Mz	0.00	-0.09	-0.18	-0.26	-0.35	-0.44	-0.53
	TB-450-A2	N	17.446	17.446	17.446	17.446	17.446	17.446	17.446
		Vy	0.467	0.467	0.467	0.467	0.467	0.467	0.467
		Vz	-2.551	-2.551	-2.551	-2.551	-2.551	-2.551	-2.551
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.58	1.17	1.75	2.34	2.92	3.50
		Mz	0.00	-0.11	-0.21	-0.32	-0.43	-0.53	-0.64
	TB-450-B1	N	48.919	48.919	48.919	48.919	48.919	48.919	48.919
		Vy	0.552	0.552	0.552	0.552	0.552	0.552	0.552
		Vz	12.370	12.370	12.370	12.370	12.370	12.370	12.370

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.83	-5.66	-8.50	-11.33	-14.16	-16.99
		Mz	0.00	-0.13	-0.25	-0.38	-0.51	-0.63	-0.76
	TB-450-B2	N	25.007	25.007	25.007	25.007	25.007	25.007	25.007
		Vy	-0.485	-0.485	-0.485	-0.485	-0.485	-0.485	-0.485
		Vz	5.268	5.268	5.268	5.268	5.268	5.268	5.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.21	-2.41	-3.62	-4.82	-6.03	-7.24
		Mz	0.00	0.11	0.22	0.33	0.44	0.55	0.67
	TB-450-C1	N	20.039	20.039	20.039	20.039	20.039	20.039	20.039
		Vy	-0.756	-0.756	-0.756	-0.756	-0.756	-0.756	-0.756
		Vz	4.300	4.300	4.300	4.300	4.300	4.300	4.300
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.98	-1.97	-2.95	-3.94	-4.92	-5.91
		Mz	0.00	0.17	0.35	0.52	0.69	0.87	1.04
	TB-450-C2	N	32.411	32.411	32.411	32.411	32.411	32.411	32.411
		Vy	0.906	0.906	0.906	0.906	0.906	0.906	0.906
		Vz	10.075	10.075	10.075	10.075	10.075	10.075	10.075
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.31	-4.61	-6.92	-9.23	-11.53	-13.84
		Mz	0.00	-0.21	-0.41	-0.62	-0.83	-1.04	-1.24
	TB-450-D1	N	18.805	18.805	18.805	18.805	18.805	18.805	18.805
		Vy	0.715	0.715	0.715	0.715	0.715	0.715	0.715
		Vz	6.147	6.147	6.147	6.147	6.147	6.147	6.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.41	-2.81	-4.22	-5.63	-7.04	-8.44
		Mz	0.00	-0.16	-0.33	-0.49	-0.66	-0.82	-0.98
	TB-450-D2	N	13.357	13.357	13.357	13.357	13.357	13.357	13.357
		Vy	-0.676	-0.676	-0.676	-0.676	-0.676	-0.676	-0.676
		Vz	2.646	2.646	2.646	2.646	2.646	2.646	2.646
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.61	-1.21	-1.82	-2.42	-3.03	-3.63
		Mz	0.00	0.15	0.31	0.46	0.62	0.77	0.93
	TB-450-E1	N	4.835	4.835	4.835	4.835	4.835	4.835	4.835

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
		Vy	0.316	0.316	0.316	0.316	0.316	0.316	0.316
		Vz	1.767	1.767	1.767	1.767	1.767	1.767	1.767
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.40	-0.81	-1.21	-1.62	-2.02	-2.43
		Mz	0.00	-0.07	-0.14	-0.22	-0.29	-0.36	-0.43
	TB-450-E2	N	4.562	4.562	4.562	4.562	4.562	4.562	4.562
		Vy	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260
		Vz	0.867	0.867	0.867	0.867	0.867	0.867	0.867
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.20	-0.40	-0.60	-0.79	-0.99	-1.19
		Mz	0.00	0.06	0.12	0.18	0.24	0.30	0.36

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N76/N206	Peso próprio	N	77.750	77.808	77.867	77.926	77.985	78.044	78.102
		Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vz	10.110	10.780	11.451	12.121	12.792	13.462	14.133
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.51	-12.47	-14.55	-16.76	-19.09	-21.55	-24.13
		Mz	0.06	0.07	0.07	0.08	0.09	0.10	0.11
	Guarda Corpo	N	20.184	20.184	20.184	20.184	20.184	20.184	20.184
		Vy	0.085	0.085	0.085	0.085	0.085	0.085	0.085
		Vz	3.080	3.080	3.080	3.080	3.080	3.080	3.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.23	-4.81	-5.39	-5.96	-6.54	-7.12	-7.69
		Mz	-0.12	-0.13	-0.15	-0.16	-0.18	-0.20	-0.21
	Laje	N	149.189	149.189	149.189	149.189	149.189	149.189	149.189
		Vy	0.756	0.756	0.756	0.756	0.756	0.756	0.756
		Vz	22.853	22.853	22.853	22.853	22.853	22.853	22.853
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-31.39	-35.67	-39.96	-44.24	-48.52	-52.80	-57.08
		Mz	-1.04	-1.18	-1.32	-1.46	-1.60	-1.75	-1.89

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Pavimentação	N	81.589	81.589	81.589	81.589	81.589	81.589	81.589
		Vy	0.411	0.411	0.411	0.411	0.411	0.411	0.411
		Vz	12.516	12.516	12.516	12.516	12.516	12.516	12.516
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.19	-19.54	-21.88	-24.23	-26.57	-28.91	-31.26
		Mz	-0.56	-0.64	-0.72	-0.80	-0.87	-0.95	-1.03
	Recapeamento	N	37.003	37.003	37.003	37.003	37.003	37.003	37.003
		Vy	0.190	0.190	0.190	0.190	0.190	0.190	0.190
		Vz	5.671	5.671	5.671	5.671	5.671	5.671	5.671
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.79	-8.85	-9.92	-10.98	-12.04	-13.10	-14.16
		Mz	-0.26	-0.30	-0.33	-0.37	-0.40	-0.44	-0.47
	Vento 0	N	-10.520	-10.442	-10.365	-10.287	-10.210	-10.132	-10.055
		Vy	38.030	37.760	37.490	37.220	36.950	36.680	36.410
		Vz	1.538	1.531	1.525	1.518	1.511	1.504	1.498
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.15	-2.43	-2.72	-3.01	-3.29	-3.57	-3.85
		Mz	-53.61	-60.70	-67.75	-74.75	-81.69	-88.59	-95.43
	Vento 180	N	9.964	9.964	9.964	9.964	9.964	9.964	9.964
		Vy	-38.122	-38.122	-38.122	-38.122	-38.122	-38.122	-38.122
		Vz	-1.785	-1.785	-1.785	-1.785	-1.785	-1.785	-1.785
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.45	2.79	3.12	3.46	3.79	4.12	4.46
		Mz	52.37	59.51	66.65	73.79	80.93	88.07	95.21
	Multidão (Passeio)	N	26.340	26.340	26.340	26.340	26.340	26.340	26.340
		Vy	0.083	0.083	0.083	0.083	0.083	0.083	0.083
		Vz	4.000	4.000	4.000	4.000	4.000	4.000	4.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.49	-6.24	-6.99	-7.74	-8.49	-9.24	-9.99
		Mz	-0.11	-0.13	-0.15	-0.16	-0.18	-0.19	-0.21
	Multidão - TB450	N	84.694	84.694	84.694	84.694	84.694	84.694	84.694
		Vy	0.501	0.501	0.501	0.501	0.501	0.501	0.501
		Vz	13.028	13.028	13.028	13.028	13.028	13.028	13.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	-17.90	-20.34	-22.78	-25.22	-27.66	-30.10	-32.54
		Mz	-0.69	-0.78	-0.88	-0.97	-1.06	-1.16	-1.25
	TB-450-A1	N	42.950	42.950	42.950	42.950	42.950	42.950	42.950
		Vy	0.384	0.384	0.384	0.384	0.384	0.384	0.384
		Vz	-6.036	-6.036	-6.036	-6.036	-6.036	-6.036	-6.036
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.29	9.42	10.55	11.68	12.81	13.94	15.07
		Mz	-0.53	-0.60	-0.67	-0.74	-0.81	-0.89	-0.96
	TB-450-A2	N	17.446	17.446	17.446	17.446	17.446	17.446	17.446
		Vy	0.467	0.467	0.467	0.467	0.467	0.467	0.467
		Vz	-2.551	-2.551	-2.551	-2.551	-2.551	-2.551	-2.551
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.50	3.98	4.46	4.94	5.42	5.89	6.37
		Mz	-0.64	-0.73	-0.82	-0.90	-0.99	-1.08	-1.17
	TB-450-B1	N	48.919	48.919	48.919	48.919	48.919	48.919	48.919
		Vy	0.552	0.552	0.552	0.552	0.552	0.552	0.552
		Vz	12.370	12.370	12.370	12.370	12.370	12.370	12.370
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.99	-19.31	-21.63	-23.94	-26.26	-28.58	-30.89
		Mz	-0.76	-0.86	-0.97	-1.07	-1.17	-1.28	-1.38
	TB-450-B2	N	25.007	25.007	25.007	25.007	25.007	25.007	25.007
		Vy	-0.485	-0.485	-0.485	-0.485	-0.485	-0.485	-0.485
		Vz	5.268	5.268	5.268	5.268	5.268	5.268	5.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.24	-8.22	-9.21	-10.20	-11.18	-12.17	-13.16
		Mz	0.67	0.76	0.85	0.94	1.03	1.12	1.21
	TB-450-C1	N	20.039	20.039	20.039	20.039	20.039	20.039	20.039
		Vy	-0.756	-0.756	-0.756	-0.756	-0.756	-0.756	-0.756
		Vz	4.300	4.300	4.300	4.300	4.300	4.300	4.300
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.91	-6.71	-7.52	-8.32	-9.13	-9.94	-10.74
		Mz	1.04	1.18	1.32	1.46	1.60	1.75	1.89
	TB-450-C2	N	32.411	32.411	32.411	32.411	32.411	32.411	32.411
		Vy	0.906	0.906	0.906	0.906	0.906	0.906	0.906

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	10.075	10.075	10.075	10.075	10.075	10.075	10.075
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.84	-15.73	-17.62	-19.50	-21.39	-23.28	-25.16
		Mz	-1.24	-1.41	-1.58	-1.75	-1.92	-2.09	-2.26
	TB-450-D1	N	18.805	18.805	18.805	18.805	18.805	18.805	18.805
		Vy	0.715	0.715	0.715	0.715	0.715	0.715	0.715
		Vz	6.147	6.147	6.147	6.147	6.147	6.147	6.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.44	-9.60	-10.75	-11.90	-13.05	-14.20	-15.35
		Mz	-0.98	-1.12	-1.25	-1.38	-1.52	-1.65	-1.79
	TB-450-D2	N	13.357	13.357	13.357	13.357	13.357	13.357	13.357
		Vy	-0.676	-0.676	-0.676	-0.676	-0.676	-0.676	-0.676
		Vz	2.646	2.646	2.646	2.646	2.646	2.646	2.646
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.63	-4.13	-4.63	-5.12	-5.62	-6.11	-6.61
		Mz	0.93	1.06	1.18	1.31	1.44	1.56	1.69
	TB-450-E1	N	4.835	4.835	4.835	4.835	4.835	4.835	4.835
		Vy	0.316	0.316	0.316	0.316	0.316	0.316	0.316
		Vz	1.767	1.767	1.767	1.767	1.767	1.767	1.767
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.43	-2.76	-3.09	-3.42	-3.75	-4.08	-4.41
		Mz	-0.43	-0.49	-0.55	-0.61	-0.67	-0.73	-0.79
	TB-450-E2	N	4.562	4.562	4.562	4.562	4.562	4.562	4.562
		Vy	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260	-0.260
		Vz	0.867	0.867	0.867	0.867	0.867	0.867	0.867
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.19	-1.35	-1.52	-1.68	-1.84	-2.00	-2.17
		Mz	0.36	0.41	0.46	0.50	0.55	0.60	0.65

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N206/N36	Peso próprio	N	107.537	107.576	107.615

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.015	-0.015	-0.015
		Vz	-174.748	-174.301	-173.853
		Mt	-0.02	-0.02	-0.02
		My	-95.75	-73.94	-52.18
		Mz	0.11	0.11	0.11
	Guarda Corpo	N	28.643	28.643	28.643
		Vy	0.090	0.090	0.090
		Vz	-57.116	-57.116	-57.116
		Mt	0.01	0.01	0.01
		My	-28.00	-20.86	-13.72
		Mz	-0.21	-0.22	-0.23
	Laje	N	211.973	211.973	211.973
		Vy	0.799	0.799	0.799
		Vz	-424.035	-424.035	-424.035
		Mt	0.04	0.04	0.04
		My	-207.85	-154.84	-101.84
		Mz	-1.86	-1.96	-2.06
	Pavimentação	N	115.928	115.928	115.928
		Vy	0.434	0.434	0.434
		Vz	-231.844	-231.844	-231.844
		Mt	0.02	0.02	0.02
		My	-113.73	-84.75	-55.77
		Mz	-1.01	-1.06	-1.12
	Recapeamento	N	52.581	52.581	52.581
		Vy	0.200	0.200	0.200
		Vz	-105.206	-105.206	-105.206
		Mt	0.01	0.01	0.01
		My	-51.57	-38.42	-25.27
		Mz	-0.47	-0.49	-0.52
	Vento 0	N	-6.081	-6.029	-5.977
		Vy	34.319	34.139	33.959
		Vz	-19.828	-19.833	-19.837
		Mt	-0.24	-0.24	-0.24
		My	-12.83	-10.35	-7.87

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-95.06	-99.34	-103.59
	Vento 180	N	6.824	6.824	6.824
		Vy	-38.442	-38.442	-38.442
		Vz	18.902	18.902	18.902
		Mt	-1.03	-1.03	-1.03
		My	12.52	10.16	7.80
		Mz	94.73	99.53	104.34
	Multidão (Passeio)	N	37.321	37.321	37.321
		Vy	0.090	0.090	0.090
		Vz	-74.139	-74.139	-74.139
		Mt	0.01	0.01	0.01
		My	-36.36	-27.09	-17.82
		Mz	-0.20	-0.21	-0.23
	Multidão - TB450	N	120.488	120.488	120.488
		Vy	0.526	0.526	0.526
		Vz	-241.760	-241.760	-241.760
		Mt	0.03	0.03	0.03
		My	-118.50	-88.28	-58.06
		Mz	-1.24	-1.30	-1.37
	TB-450-A1	N	55.642	55.642	55.642
		Vy	0.402	0.402	0.402
		Vz	-134.139	-134.139	-134.139
		Mt	0.04	0.04	0.04
		My	-10.24	6.53	23.29
		Mz	-0.94	-0.99	-1.04
	TB-450-A2	N	22.800	22.800	22.800
		Vy	0.497	0.497	0.497
		Vz	-56.626	-56.626	-56.626
		Mt	-0.02	-0.02	-0.02
		My	-4.31	2.77	9.85
		Mz	-1.17	-1.23	-1.29
	TB-450-B1	N	72.359	72.359	72.359
		Vy	0.563	0.563	0.563
		Vz	-140.270	-140.270	-140.270

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.05	0.05	0.05
		My	-89.18	-71.65	-54.12
		Mz	-1.36	-1.43	-1.50
	TB-450-B2	N	34.980	34.980	34.980
		Vy	-0.492	-0.492	-0.492
		Vz	-59.525	-59.525	-59.525
		Mt	-0.04	-0.04	-0.04
		My	-37.90	-30.46	-23.02
		Mz	1.20	1.26	1.32
	TB-450-C1	N	27.483	27.483	27.483
		Vy	-0.766	-0.766	-0.766
		Vz	-43.055	-43.055	-43.055
		Mt	-0.04	-0.04	-0.04
		My	-29.31	-23.92	-18.54
		Mz	1.87	1.96	2.06
	TB-450-C2	N	49.859	49.859	49.859
		Vy	0.920	0.920	0.920
		Vz	-101.415	-101.415	-101.415
		Mt	0.05	0.05	0.05
		My	-68.87	-56.19	-43.51
		Mz	-2.24	-2.35	-2.47
	TB-450-D1	N	29.397	29.397	29.397
		Vy	0.726	0.726	0.726
		Vz	-61.479	-61.479	-61.479
		Mt	0.03	0.03	0.03
		My	-41.91	-34.22	-26.54
		Mz	-1.77	-1.86	-1.95
	TB-450-D2	N	17.914	17.914	17.914
		Vy	-0.682	-0.682	-0.682
		Vz	-26.273	-26.273	-26.273
		Mt	-0.03	-0.03	-0.03
		My	-17.97	-14.68	-11.40
		Mz	1.68	1.76	1.85
	TB-450-E1	N	7.879	7.879	7.879

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.320	0.320	0.320
		Vz	-17.688	-17.688	-17.688
		Mt	0.01	0.01	0.01
		My	-12.05	-9.84	-7.63
		Mz	-0.78	-0.82	-0.86
	TB-450-E2	N	6.055	6.055	6.055
		Vy	-0.261	-0.261	-0.261
		Vz	-8.600	-8.600	-8.600
		Mt	0.00	0.00	0.00
		My	-5.88	-4.81	-3.73
		Mz	0.65	0.68	0.72

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N36/N207	Peso próprio	N	108.568	108.608	108.647
		Vy	0.119	0.119	0.119
		Vz	-161.513	-161.065	-160.618
		Mt	-0.02	-0.02	-0.02
		My	-52.50	-32.34	-12.24
		Mz	0.11	0.09	0.08
	Guarda Corpo	N	30.050	30.050	30.050
		Vy	-0.062	-0.062	-0.062
		Vz	-41.910	-41.910	-41.910
		Mt	0.01	0.01	0.01
		My	-14.12	-8.89	-3.65
		Mz	-0.23	-0.22	-0.21
	Laje	N	222.802	222.802	222.802
		Vy	-0.532	-0.532	-0.532
		Vz	-311.074	-311.074	-311.074
		Mt	0.05	0.05	0.05
		My	-104.81	-65.93	-27.04
		Mz	-2.02	-1.96	-1.89

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	121.854	121.854	121.854
		Vy	-0.285	-0.285	-0.285
		Vz	-170.204	-170.204	-170.204
		Mt	0.02	0.02	0.02
		My	-57.39	-36.11	-14.84
		Mz	-1.10	-1.06	-1.03
	Recapeamento	N	55.274	55.274	55.274
		Vy	-0.133	-0.133	-0.133
		Vz	-77.188	-77.188	-77.188
		Mt	0.01	0.01	0.01
		My	-26.01	-16.36	-6.71
		Mz	-0.51	-0.49	-0.48
	Vento 0	N	14.050	14.101	14.153
		Vy	-32.718	-32.899	-33.079
		Vz	-19.862	-19.866	-19.871
		Mt	-0.16	-0.16	-0.16
		My	-7.89	-5.41	-2.92
		Mz	-101.84	-97.74	-93.62
	Vento 180	N	-15.547	-15.547	-15.547
		Vy	36.884	36.884	36.884
		Vz	19.148	19.148	19.148
		Mt	-1.12	-1.12	-1.12
		My	7.82	5.42	3.03
		Mz	102.37	97.76	93.14
	Multidão (Passeio)	N	39.069	39.069	39.069
		Vy	-0.066	-0.066	-0.066
		Vz	-54.408	-54.408	-54.408
		Mt	0.01	0.01	0.01
		My	-18.34	-11.54	-4.74
		Mz	-0.22	-0.21	-0.20
	Multidão - TB450	N	126.868	126.868	126.868
		Vy	-0.341	-0.341	-0.341
		Vz	-177.358	-177.358	-177.358
		Mt	0.03	0.03	0.03

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-59.75	-37.58	-15.41
		Mz	-1.34	-1.30	-1.26
	TB-450-A1	N	65.854	65.854	65.854
		Vy	-0.140	-0.140	-0.140
		Vz	-12.062	-12.062	-12.062
		Mt	0.04	0.04	0.04
		My	20.08	21.59	23.10
		Mz	-1.02	-1.00	-0.99
	TB-450-A2	N	26.974	26.974	26.974
		Vy	-0.524	-0.524	-0.524
		Vz	-5.066	-5.066	-5.066
		Mt	-0.02	-0.02	-0.02
		My	8.49	9.13	9.76
		Mz	-1.26	-1.20	-1.13
	TB-450-B1	N	73.452	73.452	73.452
		Vy	-0.723	-0.723	-0.723
		Vz	-140.272	-140.272	-140.272
		Mt	0.05	0.05	0.05
		My	-54.12	-36.58	-19.05
		Mz	-1.47	-1.38	-1.29
	TB-450-B2	N	35.363	35.363	35.363
		Vy	0.614	0.614	0.614
		Vz	-59.528	-59.528	-59.528
		Mt	-0.04	-0.04	-0.04
		My	-23.02	-15.58	-8.14
		Mz	1.29	1.21	1.14
	TB-450-C1	N	27.610	27.610	27.610
		Vy	0.896	0.896	0.896
		Vz	-43.051	-43.051	-43.051
		Mt	-0.04	-0.04	-0.04
		My	-18.54	-13.16	-7.78
		Mz	2.02	1.90	1.79
	TB-450-C2	N	51.002	51.002	51.002
		Vy	-0.749	-0.749	-0.749

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-101.413	-101.413	-101.413
		Mt	0.06	0.06	0.06
		My	-43.52	-30.84	-18.16
		Mz	-2.43	-2.33	-2.24
	TB-450-D1	N	29.759	29.759	29.759
		Vy	-0.715	-0.715	-0.715
		Vz	-61.481	-61.481	-61.481
		Mt	0.03	0.03	0.03
		My	-26.54	-18.85	-11.17
		Mz	-1.91	-1.83	-1.74
	TB-450-D2	N	17.447	17.447	17.447
		Vy	0.651	0.651	0.651
		Vz	-26.272	-26.272	-26.272
		Mt	-0.03	-0.03	-0.03
		My	-11.40	-8.11	-4.83
		Mz	1.81	1.73	1.65
	TB-450-E1	N	8.029	8.029	8.029
		Vy	-0.315	-0.315	-0.315
		Vz	-17.688	-17.688	-17.688
		Mt	0.01	0.01	0.01
		My	-7.63	-5.42	-3.21
		Mz	-0.85	-0.81	-0.77
	TB-450-E2	N	5.856	5.856	5.856
		Vy	0.247	0.247	0.247
		Vz	-8.599	-8.599	-8.599
		Mt	0.00	0.00	0.00
		My	-3.73	-2.66	-1.58
		Mz	0.70	0.67	0.64

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N207/N75	Peso próprio	N	146.782	146.841	146.900	146.959	147.017	147.076	147.135

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	0.103	0.103	0.103	0.103	0.103	0.103	0.103
		Vz	-29.898	-29.227	-28.557	-27.886	-27.216	-26.545	-25.874
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-46.54	-41.01	-35.59	-30.31	-25.15	-20.11	-15.20
		Mz	0.07	0.06	0.04	0.02	0.00	-0.02	-0.04
	Guarda Corpo	N	40.354	40.354	40.354	40.354	40.354	40.354	40.354
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	-7.711	-7.711	-7.711	-7.711	-7.711	-7.711	-7.711
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.45	-12.00	-10.56	-9.12	-7.67	-6.23	-4.78
		Mz	-0.21	-0.20	-0.19	-0.17	-0.16	-0.15	-0.14
	Laje	N	299.283	299.283	299.283	299.283	299.283	299.283	299.283
		Vy	-0.533	-0.533	-0.533	-0.533	-0.533	-0.533	-0.533
		Vz	-57.244	-57.244	-57.244	-57.244	-57.244	-57.244	-57.244
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-99.80	-89.08	-78.35	-67.63	-56.91	-46.19	-35.47
		Mz	-1.89	-1.79	-1.69	-1.59	-1.49	-1.39	-1.29
	Pavimentação	N	163.702	163.702	163.702	163.702	163.702	163.702	163.702
		Vy	-0.285	-0.285	-0.285	-0.285	-0.285	-0.285	-0.285
		Vz	-31.305	-31.305	-31.305	-31.305	-31.305	-31.305	-31.305
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-54.64	-48.78	-42.92	-37.05	-31.19	-25.33	-19.46
		Mz	-1.03	-0.97	-0.92	-0.87	-0.81	-0.76	-0.71
	Recapeamento	N	74.251	74.251	74.251	74.251	74.251	74.251	74.251
		Vy	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
		Vz	-14.203	-14.203	-14.203	-14.203	-14.203	-14.203	-14.203
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-24.77	-22.11	-19.44	-16.78	-14.12	-11.46	-8.80
		Mz	-0.47	-0.45	-0.42	-0.40	-0.37	-0.35	-0.32
	Vento 0	N	19.652	19.729	19.807	19.884	19.962	20.039	20.117
		Vy	-35.589	-35.859	-36.129	-36.399	-36.669	-36.939	-37.209
		Vz	-3.970	-3.977	-3.984	-3.991	-3.997	-4.004	-4.011
		Mt	0.29	0.29	0.29	0.29	0.29	0.29	0.29
		My	-8.20	-7.46	-6.72	-5.97	-5.22	-4.47	-3.72

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-93.54	-86.85	-80.11	-73.31	-66.47	-59.58	-52.63
	Vento 180	N	-20.268	-20.268	-20.268	-20.268	-20.268	-20.268	-20.268
		Vy	36.678	36.678	36.678	36.678	36.678	36.678	36.678
		Vz	3.263	3.263	3.263	3.263	3.263	3.263	3.263
		Mt	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
		My	7.35	6.74	6.13	5.52	4.91	4.30	3.68
		Mz	92.98	86.11	79.24	72.37	65.50	58.63	51.76
	Multidão (Passeio)	N	52.446	52.446	52.446	52.446	52.446	52.446	52.446
		Vy	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067
		Vz	-10.009	-10.009	-10.009	-10.009	-10.009	-10.009	-10.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.46	-15.59	-13.71	-11.84	-9.96	-8.09	-6.21
		Mz	-0.20	-0.19	-0.18	-0.17	-0.15	-0.14	-0.13
	Multidão - TB450	N	170.474	170.474	170.474	170.474	170.474	170.474	170.474
		Vy	-0.342	-0.342	-0.342	-0.342	-0.342	-0.342	-0.342
		Vz	-32.638	-32.638	-32.638	-32.638	-32.638	-32.638	-32.638
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-56.90	-50.78	-44.67	-38.56	-32.45	-26.33	-20.22
		Mz	-1.26	-1.19	-1.13	-1.06	-1.00	-0.94	-0.87
	TB-450-A1	N	69.833	69.833	69.833	69.833	69.833	69.833	69.833
		Vy	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137
		Vz	-4.193	-4.193	-4.193	-4.193	-4.193	-4.193	-4.193
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.33	16.11	16.90	17.69	18.47	19.26	20.04
		Mz	-0.98	-0.95	-0.93	-0.90	-0.87	-0.85	-0.82
	TB-450-A2	N	28.649	28.649	28.649	28.649	28.649	28.649	28.649
		Vy	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526
		Vz	-1.766	-1.766	-1.766	-1.766	-1.766	-1.766	-1.766
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	6.48	6.81	7.14	7.47	7.80	8.14	8.47
		Mz	-1.14	-1.04	-0.94	-0.84	-0.74	-0.64	-0.54
	TB-450-B1	N	105.846	105.846	105.846	105.846	105.846	105.846	105.846
		Vy	-0.718	-0.718	-0.718	-0.718	-0.718	-0.718	-0.718
		Vz	-30.670	-30.670	-30.670	-30.670	-30.670	-30.670	-30.670

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-48.43	-42.68	-36.94	-31.20	-25.45	-19.71	-13.96
		Mz	-1.28	-1.15	-1.01	-0.88	-0.74	-0.61	-0.47
	TB-450-B2	N	49.103	49.103	49.103	49.103	49.103	49.103	49.103
		Vy	0.608	0.608	0.608	0.608	0.608	0.608	0.608
		Vz	-13.015	-13.015	-13.015	-13.015	-13.015	-13.015	-13.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-20.59	-18.15	-15.71	-13.27	-10.83	-8.40	-5.96
		Mz	1.13	1.01	0.90	0.79	0.67	0.56	0.44
	TB-450-C1	N	38.419	38.419	38.419	38.419	38.419	38.419	38.419
		Vy	0.888	0.888	0.888	0.888	0.888	0.888	0.888
		Vz	-6.400	-6.400	-6.400	-6.400	-6.400	-6.400	-6.400
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-17.45	-16.25	-15.06	-13.86	-12.66	-11.46	-10.26
		Mz	1.78	1.62	1.45	1.28	1.12	0.95	0.79
	TB-450-C2	N	76.503	76.503	76.503	76.503	76.503	76.503	76.503
		Vy	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743
		Vz	-15.026	-15.026	-15.026	-15.026	-15.026	-15.026	-15.026
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-41.05	-38.23	-35.42	-32.60	-29.79	-26.97	-24.16
		Mz	-2.23	-2.09	-1.95	-1.81	-1.67	-1.54	-1.40
	TB-450-D1	N	45.280	45.280	45.280	45.280	45.280	45.280	45.280
		Vy	-0.711	-0.711	-0.711	-0.711	-0.711	-0.711	-0.711
		Vz	-8.902	-8.902	-8.902	-8.902	-8.902	-8.902	-8.902
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-25.10	-23.43	-21.76	-20.09	-18.43	-16.76	-15.09
		Mz	-1.73	-1.60	-1.46	-1.33	-1.20	-1.06	-0.93
	TB-450-D2	N	24.066	24.066	24.066	24.066	24.066	24.066	24.066
		Vy	0.646	0.646	0.646	0.646	0.646	0.646	0.646
		Vz	-3.822	-3.822	-3.822	-3.822	-3.822	-3.822	-3.822
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-10.75	-10.03	-9.31	-8.60	-7.88	-7.17	-6.45
		Mz	1.65	1.53	1.40	1.28	1.16	1.04	0.92
	TB-450-E1	N	12.497	12.497	12.497	12.497	12.497	12.497	12.497

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313
		Vz	-2.556	-2.556	-2.556	-2.556	-2.556	-2.556	-2.556
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.22	-6.74	-6.27	-5.79	-5.31	-4.83	-4.35
		Mz	-0.76	-0.71	-0.65	-0.59	-0.53	-0.47	-0.41
	TB-450-E2	N	8.023	8.023	8.023	8.023	8.023	8.023	8.023
		Vy	0.246	0.246	0.246	0.246	0.246	0.246	0.246
		Vz	-1.250	-1.250	-1.250	-1.250	-1.250	-1.250	-1.250
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.52	-3.29	-3.05	-2.82	-2.58	-2.35	-2.11
		Mz	0.64	0.59	0.55	0.50	0.46	0.41	0.36

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N75/N208	Peso próprio	N	147.135	147.194	147.253	147.311	147.370	147.429	147.488
		Vy	0.103	0.103	0.103	0.103	0.103	0.103	0.103
		Vz	-25.874	-25.204	-24.533	-23.863	-23.192	-22.522	-21.851
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.20	-10.42	-5.76	-1.23	3.18	7.46	11.61
		Mz	-0.04	-0.06	-0.08	-0.10	-0.12	-0.14	-0.16
	Guarda Corpo	N	40.354	40.354	40.354	40.354	40.354	40.354	40.354
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	-7.711	-7.711	-7.711	-7.711	-7.711	-7.711	-7.711
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.78	-3.34	-1.89	-0.45	0.99	2.44	3.88
		Mz	-0.14	-0.13	-0.12	-0.10	-0.09	-0.08	-0.07
	Laje	N	299.283	299.283	299.283	299.283	299.283	299.283	299.283
		Vy	-0.533	-0.533	-0.533	-0.533	-0.533	-0.533	-0.533
		Vz	-57.244	-57.244	-57.244	-57.244	-57.244	-57.244	-57.244
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-35.47	-24.75	-14.02	-3.30	7.42	18.14	28.86
		Mz	-1.29	-1.19	-1.09	-0.99	-0.89	-0.79	-0.69

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Pavimentação	N	163.702	163.702	163.702	163.702	163.702	163.702	163.702
		Vy	-0.285	-0.285	-0.285	-0.285	-0.285	-0.285	-0.285
		Vz	-31.305	-31.305	-31.305	-31.305	-31.305	-31.305	-31.305
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-19.46	-13.60	-7.74	-1.87	3.99	9.85	15.72
		Mz	-0.71	-0.65	-0.60	-0.54	-0.49	-0.44	-0.38
	Recapeamento	N	74.251	74.251	74.251	74.251	74.251	74.251	74.251
		Vy	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
		Vz	-14.203	-14.203	-14.203	-14.203	-14.203	-14.203	-14.203
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-8.80	-6.14	-3.48	-0.82	1.84	4.50	7.16
		Mz	-0.32	-0.30	-0.27	-0.25	-0.22	-0.20	-0.17
	Vento 0	N	20.117	20.194	20.272	20.349	20.427	20.504	20.582
		Vy	-37.209	-37.479	-37.749	-38.019	-38.289	-38.559	-38.829
		Vz	-4.011	-4.018	-4.025	-4.031	-4.038	-4.045	-4.052
		Mt	0.29	0.29	0.29	0.29	0.29	0.29	0.29
		My	-3.72	-2.97	-2.22	-1.46	-0.71	0.05	0.81
		Mz	-52.63	-45.64	-38.59	-31.50	-24.35	-17.16	-9.91
	Vento 180	N	-20.268	-20.268	-20.268	-20.268	-20.268	-20.268	-20.268
		Vy	36.678	36.678	36.678	36.678	36.678	36.678	36.678
		Vz	3.263	3.263	3.263	3.263	3.263	3.263	3.263
		Mt	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
		My	3.68	3.07	2.46	1.85	1.24	0.63	0.02
		Mz	51.76	44.89	38.02	31.15	24.28	17.41	10.54
	Multidão (Passeio)	N	52.446	52.446	52.446	52.446	52.446	52.446	52.446
		Vy	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067
		Vz	-10.009	-10.009	-10.009	-10.009	-10.009	-10.009	-10.009
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.21	-4.34	-2.46	-0.59	1.29	3.16	5.03
		Mz	-0.13	-0.12	-0.10	-0.09	-0.08	-0.07	-0.05
	Multidão - TB450	N	170.474	170.474	170.474	170.474	170.474	170.474	170.474
		Vy	-0.342	-0.342	-0.342	-0.342	-0.342	-0.342	-0.342
		Vz	-32.638	-32.638	-32.638	-32.638	-32.638	-32.638	-32.638
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	-20.22	-14.11	-7.99	-1.88	4.23	10.34	16.46
		Mz	-0.87	-0.81	-0.74	-0.68	-0.62	-0.55	-0.49
	TB-450-A1	N	69.833	69.833	69.833	69.833	69.833	69.833	69.833
		Vy	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137
		Vz	-4.193	-4.193	-4.193	-4.193	-4.193	-4.193	-4.193
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.04	20.83	21.61	22.40	23.18	23.97	24.75
		Mz	-0.82	-0.80	-0.77	-0.75	-0.72	-0.69	-0.67
	TB-450-A2	N	28.649	28.649	28.649	28.649	28.649	28.649	28.649
		Vy	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526	-0.526
		Vz	-1.766	-1.766	-1.766	-1.766	-1.766	-1.766	-1.766
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	8.47	8.80	9.13	9.46	9.79	10.12	10.45
		Mz	-0.54	-0.45	-0.35	-0.25	-0.15	-0.05	0.05
	TB-450-B1	N	105.846	105.846	105.846	105.846	105.846	105.846	105.846
		Vy	-0.718	-0.718	-0.718	-0.718	-0.718	-0.718	-0.718
		Vz	-30.670	-30.670	-30.670	-30.670	-30.670	-30.670	-30.670
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-13.96	-8.22	-2.47	3.27	9.02	14.76	20.50
		Mz	-0.47	-0.34	-0.21	-0.07	0.06	0.20	0.33
	TB-450-B2	N	49.103	49.103	49.103	49.103	49.103	49.103	49.103
		Vy	0.608	0.608	0.608	0.608	0.608	0.608	0.608
		Vz	-13.015	-13.015	-13.015	-13.015	-13.015	-13.015	-13.015
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.96	-3.52	-1.08	1.35	3.79	6.23	8.67
		Mz	0.44	0.33	0.22	0.10	-0.01	-0.12	-0.24
	TB-450-C1	N	38.419	38.419	38.419	38.419	38.419	38.419	38.419
		Vy	0.888	0.888	0.888	0.888	0.888	0.888	0.888
		Vz	-6.400	-6.400	-6.400	-6.400	-6.400	-6.400	-6.400
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-10.26	-9.06	-7.86	-6.66	-5.47	-4.27	-3.07
		Mz	0.79	0.62	0.45	0.29	0.12	-0.05	-0.21
	TB-450-C2	N	76.503	76.503	76.503	76.503	76.503	76.503	76.503
		Vy	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743	-0.743

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-15.026	-15.026	-15.026	-15.026	-15.026	-15.026	-15.026
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-24.16	-21.34	-18.53	-15.72	-12.90	-10.09	-7.27
		Mz	-1.40	-1.26	-1.12	-0.98	-0.84	-0.70	-0.56
	TB-450-D1	N	45.280	45.280	45.280	45.280	45.280	45.280	45.280
		Vy	-0.711	-0.711	-0.711	-0.711	-0.711	-0.711	-0.711
		Vz	-8.902	-8.902	-8.902	-8.902	-8.902	-8.902	-8.902
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-15.09	-13.43	-11.76	-10.09	-8.42	-6.76	-5.09
		Mz	-0.93	-0.80	-0.67	-0.53	-0.40	-0.27	-0.13
	TB-450-D2	N	24.066	24.066	24.066	24.066	24.066	24.066	24.066
		Vy	0.646	0.646	0.646	0.646	0.646	0.646	0.646
		Vz	-3.822	-3.822	-3.822	-3.822	-3.822	-3.822	-3.822
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-6.45	-5.73	-5.02	-4.30	-3.59	-2.87	-2.15
		Mz	0.92	0.80	0.68	0.56	0.44	0.32	0.19
	TB-450-E1	N	12.497	12.497	12.497	12.497	12.497	12.497	12.497
		Vy	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313	-0.313
		Vz	-2.556	-2.556	-2.556	-2.556	-2.556	-2.556	-2.556
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.35	-3.87	-3.39	-2.91	-2.44	-1.96	-1.48
		Mz	-0.41	-0.35	-0.30	-0.24	-0.18	-0.12	-0.06
	TB-450-E2	N	8.023	8.023	8.023	8.023	8.023	8.023	8.023
		Vy	0.246	0.246	0.246	0.246	0.246	0.246	0.246
		Vz	-1.250	-1.250	-1.250	-1.250	-1.250	-1.250	-1.250
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.11	-1.88	-1.65	-1.41	-1.18	-0.94	-0.71
		Mz	0.36	0.32	0.27	0.23	0.18	0.13	0.09

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N208/N8	Peso próprio	N	165.202	165.242	165.281

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.099	0.099	0.099
		Vz	-155.047	-154.600	-154.152
		Mt	0.00	0.00	0.00
		My	-22.50	-3.14	16.15
		Mz	-0.16	-0.17	-0.18
	Guarda Corpo	N	45.571	45.571	45.571
		Vy	-0.065	-0.065	-0.065
		Vz	-50.277	-50.277	-50.277
		Mt	0.02	0.02	0.02
		My	-5.85	0.44	6.72
		Mz	-0.07	-0.06	-0.05
	Laje	N	338.009	338.009	338.009
		Vy	-0.566	-0.566	-0.566
		Vz	-373.223	-373.223	-373.223
		Mt	0.22	0.22	0.22
		My	-43.37	3.28	49.94
		Mz	-0.68	-0.61	-0.53
	Pavimentação	N	184.892	184.892	184.892
		Vy	-0.304	-0.304	-0.304
		Vz	-204.175	-204.175	-204.175
		Mt	0.12	0.12	0.12
		My	-23.81	1.71	27.23
		Mz	-0.38	-0.34	-0.30
	Recapeamento	N	83.861	83.861	83.861
		Vy	-0.142	-0.142	-0.142
		Vz	-92.607	-92.607	-92.607
		Mt	0.06	0.06	0.06
		My	-10.77	0.81	12.38
		Mz	-0.17	-0.15	-0.14
	Vento 0	N	23.722	23.774	23.825
		Vy	-42.068	-42.248	-42.428
		Vz	-23.025	-23.030	-23.034
		Mt	4.68	4.68	4.68
		My	-4.73	-1.85	1.02

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-9.71	-4.44	0.85
	Vento 180	N	-22.677	-22.677	-22.677
		Vy	37.374	37.374	37.374
		Vz	22.314	22.314	22.314
		Mt	-4.78	-4.78	-4.78
		My	4.65	1.86	-0.93
		Mz	10.30	5.63	0.96
	Multidão (Passeio)	N	59.218	59.218	59.218
		Vy	-0.068	-0.068	-0.068
		Vz	-65.262	-65.262	-65.262
		Mt	0.01	0.01	0.01
		My	-7.60	0.56	8.72
		Mz	-0.05	-0.04	-0.04
	Multidão - TB450	N	192.555	192.555	192.555
		Vy	-0.366	-0.366	-0.366
		Vz	-212.807	-212.807	-212.807
		Mt	0.17	0.17	0.17
		My	-24.73	1.87	28.47
		Mz	-0.48	-0.43	-0.39
	TB-450-A1	N	72.856	72.856	72.856
		Vy	-0.127	-0.127	-0.127
		Vz	-37.380	-37.380	-37.380
		Mt	-0.04	-0.04	-0.04
		My	21.22	25.89	30.56
		Mz	-0.67	-0.66	-0.64
	TB-450-A2	N	29.923	29.923	29.923
		Vy	-0.521	-0.521	-0.521
		Vz	-15.772	-15.772	-15.772
		Mt	-0.05	-0.05	-0.05
		My	8.96	10.93	12.91
		Mz	0.04	0.11	0.17
	TB-450-B1	N	121.332	121.332	121.332
		Vy	-0.751	-0.751	-0.751
		Vz	-158.723	-158.723	-158.723

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Resp. Técnico CREA RJ 152.925/D
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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.24	0.24	0.24
		My	-8.07	11.77	31.61
		Mz	0.34	0.44	0.53
	TB-450-B2	N	55.665	55.665	55.665
		Vy	0.603	0.603	0.603
		Vz	-67.214	-67.214	-67.214
		Mt	0.01	0.01	0.01
		My	-3.45	4.95	13.35
		Mz	-0.24	-0.31	-0.39
	TB-450-C1	N	43.855	43.855	43.855
		Vy	0.887	0.887	0.887
		Vz	-48.352	-48.352	-48.352
		Mt	-0.02	-0.02	-0.02
		My	-13.77	-7.73	-1.68
		Mz	-0.21	-0.32	-0.43
	TB-450-C2	N	89.355	89.355	89.355
		Vy	-0.781	-0.781	-0.781
		Vz	-114.380	-114.380	-114.380
		Mt	0.27	0.27	0.27
		My	-32.54	-18.25	-3.95
		Mz	-0.55	-0.45	-0.35
	TB-450-D1	N	53.134	53.134	53.134
		Vy	-0.724	-0.724	-0.724
		Vz	-69.556	-69.556	-69.556
		Mt	0.10	0.10	0.10
		My	-20.56	-11.86	-3.17
		Mz	-0.13	-0.04	0.05
	TB-450-D2	N	27.403	27.403	27.403
		Vy	0.661	0.661	0.661
		Vz	-29.541	-29.541	-29.541
		Mt	-0.11	-0.11	-0.11
		My	-8.74	-5.05	-1.35
		Mz	0.19	0.11	0.02
	TB-450-E1	N	14.760	14.760	14.760

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Resp. Técnico CREA RJ 152.925/D
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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.319	-0.319	-0.319
		Vz	-20.034	-20.034	-20.034
		Mt	0.04	0.04	0.04
		My	-5.93	-3.43	-0.93
		Mz	-0.06	-0.02	0.02
	TB-450-E2	N	9.115	9.115	9.115
		Vy	0.252	0.252	0.252
		Vz	-9.663	-9.663	-9.663
		Mt	-0.04	-0.04	-0.04
		My	-2.86	-1.66	-0.45
		Mz	0.09	0.05	0.02

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N8/N209	Peso próprio	N	166.205	166.244	166.284
		Vy	-0.236	-0.236	-0.236
		Vz	-141.542	-141.095	-140.647
		Mt	0.06	0.06	0.06
		My	15.84	33.51	51.12
		Mz	-0.19	-0.16	-0.13
	Guarda Corpo	N	47.071	47.071	47.071
		Vy	-0.040	-0.040	-0.040
		Vz	-35.068	-35.068	-35.068
		Mt	-0.01	-0.01	-0.01
		My	6.31	10.70	15.08
		Mz	-0.04	-0.04	-0.03
	Laje	N	350.088	350.088	350.088
		Vy	-0.599	-0.599	-0.599
		Vz	-260.250	-260.250	-260.250
		Mt	-0.15	-0.15	-0.15
		My	46.89	79.42	111.95
		Mz	-0.41	-0.34	-0.26

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	191.533	191.533	191.533
		Vy	-0.348	-0.348	-0.348
		Vz	-142.529	-142.529	-142.529
		Mt	-0.08	-0.08	-0.08
		My	25.57	43.38	61.20
		Mz	-0.23	-0.19	-0.15
	Recapeamento	N	86.875	86.875	86.875
		Vy	-0.154	-0.154	-0.154
		Vz	-64.586	-64.586	-64.586
		Mt	-0.04	-0.04	-0.04
		My	11.63	19.70	27.77
		Mz	-0.10	-0.09	-0.07
	Vento 0	N	48.869	48.921	48.972
		Vy	3.688	3.508	3.328
		Vz	-21.101	-21.106	-21.110
		Mt	-4.97	-4.97	-4.97
		My	-1.01	1.62	4.26
		Mz	2.74	2.29	1.86
	Vento 180	N	-50.161	-50.161	-50.161
		Vy	1.150	1.150	1.150
		Vz	20.631	20.631	20.631
		Mt	4.79	4.79	4.79
		My	1.09	-1.49	-4.06
		Mz	-1.17	-1.31	-1.46
	Multidão (Passeio)	N	60.965	60.965	60.965
		Vy	0.013	0.013	0.013
		Vz	-45.527	-45.527	-45.527
		Mt	0.00	0.00	0.00
		My	8.20	13.89	19.58
		Mz	-0.03	-0.04	-0.04
	Multidão - TB450	N	199.964	199.964	199.964
		Vy	-0.510	-0.510	-0.510
		Vz	-148.399	-148.399	-148.399
		Mt	-0.12	-0.12	-0.12

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	26.72	45.27	63.82
		Mz	-0.29	-0.23	-0.16
	TB-450-A1	N	77.358	77.358	77.358
		Vy	-0.087	-0.087	-0.087
		Vz	23.671	23.671	23.671
		Mt	0.10	0.10	0.10
		My	28.99	26.03	23.07
		Mz	-0.69	-0.67	-0.66
	TB-450-A2	N	31.492	31.492	31.492
		Vy	-0.096	-0.096	-0.096
		Vz	10.033	10.033	10.033
		Mt	0.02	0.02	0.02
		My	12.24	10.99	9.74
		Mz	0.14	0.15	0.16
	TB-450-B1	N	128.431	128.431	128.431
		Vy	0.291	0.291	0.291
		Vz	-97.649	-97.649	-97.649
		Mt	-0.18	-0.18	-0.18
		My	29.92	42.13	54.33
		Mz	0.64	0.60	0.57
	TB-450-B2	N	58.695	58.695	58.695
		Vy	0.137	0.137	0.137
		Vz	-41.460	-41.460	-41.460
		Mt	-0.05	-0.05	-0.05
		My	12.66	17.84	23.03
		Mz	-0.36	-0.37	-0.39
	TB-450-C1	N	45.017	45.017	45.017
		Vy	-0.882	-0.882	-0.882
		Vz	-48.419	-48.419	-48.419
		Mt	-0.01	-0.01	-0.01
		My	-1.68	4.37	10.42
		Mz	-0.39	-0.28	-0.17
	TB-450-C2	N	91.961	91.961	91.961
		Vy	-0.848	-0.848	-0.848

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-114.363	-114.363	-114.363
		Mt	-0.21	-0.21	-0.21
		My	-4.05	10.25	24.54
		Mz	-0.20	-0.09	0.01
	TB-450-D1	N	53.570	53.570	53.570
		Vy	0.060	0.060	0.060
		Vz	-69.520	-69.520	-69.520
		Mt	-0.08	-0.08	-0.08
		My	-3.21	5.48	14.17
		Mz	0.09	0.08	0.08
	TB-450-D2	N	26.705	26.705	26.705
		Vy	0.005	0.005	0.005
		Vz	-29.574	-29.574	-29.574
		Mt	0.10	0.10	0.10
		My	-1.31	2.39	6.08
		Mz	-0.03	-0.03	-0.03
	TB-450-E1	N	14.908	14.908	14.908
		Vy	0.067	0.067	0.067
		Vz	-20.018	-20.018	-20.018
		Mt	-0.03	-0.03	-0.03
		My	-0.94	1.56	4.06
		Mz	0.04	0.03	0.02
	TB-450-E2	N	8.778	8.778	8.778
		Vy	0.065	0.065	0.065
		Vz	-9.675	-9.675	-9.675
		Mt	0.05	0.05	0.05
		My	-0.43	0.78	1.99
		Mz	0.00	-0.01	-0.02

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N209/N74	Peso próprio	N	204.561	204.620	204.679	204.738	204.796	204.855	204.914

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223
		Vz	-12.145	-11.474	-10.804	-10.133	-9.463	-8.792	-8.122
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	13.76	15.97	18.06	20.02	21.85	23.56	25.15
		Mz	-0.12	-0.08	-0.04	0.00	0.04	0.09	0.13
	Guarda Corpo	N	57.212	57.212	57.212	57.212	57.212	57.212	57.212
		Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vz	-2.355	-2.355	-2.355	-2.355	-2.355	-2.355	-2.355
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.49	4.93	5.37	5.81	6.25	6.69	7.13
		Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.00	0.01
	Laje	N	425.348	425.348	425.348	425.348	425.348	425.348	425.348
		Vy	-0.623	-0.623	-0.623	-0.623	-0.623	-0.623	-0.623
		Vz	-17.468	-17.468	-17.468	-17.468	-17.468	-17.468	-17.468
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	33.32	36.59	39.86	43.13	46.41	49.68	52.95
		Mz	-0.30	-0.18	-0.07	0.05	0.16	0.28	0.40
	Pavimentação	N	232.748	232.748	232.748	232.748	232.748	232.748	232.748
		Vy	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361
		Vz	-9.562	-9.562	-9.562	-9.562	-9.562	-9.562	-9.562
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	18.15	19.94	21.73	23.52	25.31	27.10	28.89
		Mz	-0.17	-0.10	-0.03	0.04	0.10	0.17	0.24
	Recapeamento	N	105.552	105.552	105.552	105.552	105.552	105.552	105.552
		Vy	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160
		Vz	-4.335	-4.335	-4.335	-4.335	-4.335	-4.335	-4.335
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.26	9.07	9.89	10.70	11.51	12.32	13.13
		Mz	-0.08	-0.05	-0.02	0.01	0.04	0.07	0.10
	Vento 0	N	55.649	55.726	55.804	55.881	55.959	56.036	56.114
		Vy	0.001	-0.269	-0.539	-0.808	-1.078	-1.348	-1.618
		Vz	-1.638	-1.645	-1.652	-1.659	-1.665	-1.672	-1.679
		Mt	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
		My	-2.47	-2.16	-1.85	-1.54	-1.23	-0.92	-0.60

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.98	1.00	1.08	1.20	1.38	1.61	1.88
	Vento 180	N	-56.094	-56.094	-56.094	-56.094	-56.094	-56.094	-56.094
		Vy	1.852	1.852	1.852	1.852	1.852	1.852	1.852
		Vz	1.019	1.019	1.019	1.019	1.019	1.019	1.019
		Mt	0.21	0.21	0.21	0.21	0.21	0.21	0.21
		My	1.71	1.52	1.32	1.13	0.94	0.75	0.56
		Mz	-0.44	-0.78	-1.13	-1.48	-1.82	-2.17	-2.52
	Multidão (Passeio)	N	74.129	74.129	74.129	74.129	74.129	74.129	74.129
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-3.059	-3.059	-3.059	-3.059	-3.059	-3.059	-3.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.82	6.40	6.97	7.54	8.11	8.69	9.26
		Mz	-0.04	-0.04	-0.04	-0.04	-0.05	-0.05	-0.05
	Multidão - TB450	N	242.880	242.880	242.880	242.880	242.880	242.880	242.880
		Vy	-0.529	-0.529	-0.529	-0.529	-0.529	-0.529	-0.529
		Vz	-9.955	-9.955	-9.955	-9.955	-9.955	-9.955	-9.955
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	18.98	20.85	22.71	24.58	26.44	28.31	30.17
		Mz	-0.19	-0.09	0.01	0.10	0.20	0.30	0.40
	TB-450-A1	N	73.466	73.466	73.466	73.466	73.466	73.466	73.466
		Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vz	7.837	7.837	7.837	7.837	7.837	7.837	7.837
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	24.52	23.06	21.59	20.12	18.65	17.18	15.72
		Mz	-0.64	-0.63	-0.62	-0.60	-0.59	-0.58	-0.56
	TB-450-A2	N	29.840	29.840	29.840	29.840	29.840	29.840	29.840
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	3.317	3.317	3.317	3.317	3.317	3.317	3.317
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.36	9.73	9.11	8.49	7.87	7.25	6.63
		Mz	0.17	0.18	0.20	0.22	0.24	0.25	0.27
	TB-450-B1	N	154.343	154.343	154.343	154.343	154.343	154.343	154.343
		Vy	0.262	0.262	0.262	0.262	0.262	0.262	0.262
		Vz	-15.395	-15.395	-15.395	-15.395	-15.395	-15.395	-15.395

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.88	28.77	31.65	34.53	37.42	40.30	43.18
		Mz	0.53	0.48	0.43	0.38	0.33	0.28	0.23
	TB-450-B2	N	69.701	69.701	69.701	69.701	69.701	69.701	69.701
		Vy	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vz	-6.513	-6.513	-6.513	-6.513	-6.513	-6.513	-6.513
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	10.95	12.17	13.39	14.61	15.83	17.05	18.27
		Mz	-0.40	-0.43	-0.45	-0.47	-0.50	-0.52	-0.55
	TB-450-C1	N	58.793	58.793	58.793	58.793	58.793	58.793	58.793
		Vy	-0.882	-0.882	-0.882	-0.882	-0.882	-0.882	-0.882
		Vz	-2.887	-2.887	-2.887	-2.887	-2.887	-2.887	-2.887
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-3.03	-2.49	-1.95	-1.41	-0.87	-0.33	0.21
		Mz	-0.18	-0.01	0.15	0.32	0.49	0.65	0.82
	TB-450-C2	N	124.473	124.473	124.473	124.473	124.473	124.473	124.473
		Vy	-0.881	-0.881	-0.881	-0.881	-0.881	-0.881	-0.881
		Vz	-6.923	-6.923	-6.923	-6.923	-6.923	-6.923	-6.923
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-7.23	-5.93	-4.64	-3.34	-2.04	-0.75	0.55
		Mz	-0.04	0.13	0.29	0.46	0.62	0.79	0.95
	TB-450-D1	N	73.613	73.613	73.613	73.613	73.613	73.613	73.613
		Vy	0.047	0.047	0.047	0.047	0.047	0.047	0.047
		Vz	-3.331	-3.331	-3.331	-3.331	-3.331	-3.331	-3.331
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.43	-4.80	-4.18	-3.55	-2.93	-2.31	-1.68
		Mz	0.06	0.05	0.04	0.03	0.02	0.01	0.01
	TB-450-D2	N	35.234	35.234	35.234	35.234	35.234	35.234	35.234
		Vy	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Vz	-1.404	-1.404	-1.404	-1.404	-1.404	-1.404	-1.404
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.26	-1.99	-1.73	-1.47	-1.20	-0.94	-0.68
		Mz	-0.01	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03
	TB-450-E1	N	20.685	20.685	20.685	20.685	20.685	20.685	20.685

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	0.062	0.062	0.062	0.062	0.062	0.062	0.062
		Vz	-0.943	-0.943	-0.943	-0.943	-0.943	-0.943	-0.943
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.58	-1.41	-1.23	-1.06	-0.88	-0.70	-0.53
		Mz	0.01	0.00	-0.01	-0.02	-0.03	-0.05	-0.06
	TB-450-E2	N	11.571	11.571	11.571	11.571	11.571	11.571	11.571
		Vy	0.072	0.072	0.072	0.072	0.072	0.072	0.072
		Vz	-0.453	-0.453	-0.453	-0.453	-0.453	-0.453	-0.453
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.74	-0.66	-0.57	-0.49	-0.40	-0.32	-0.23
		Mz	-0.01	-0.02	-0.03	-0.05	-0.06	-0.07	-0.09

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N74/N210	Peso próprio	N	204.914	204.973	205.032	205.090	205.149	205.208	205.267
		Vy	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223
		Vz	-8.122	-7.451	-6.780	-6.110	-5.439	-4.769	-4.098
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	25.15	26.60	27.94	29.14	30.23	31.18	32.01
		Mz	0.13	0.17	0.21	0.25	0.30	0.34	0.38
	Guarda Corpo	N	57.212	57.212	57.212	57.212	57.212	57.212	57.212
		Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vz	-2.355	-2.355	-2.355	-2.355	-2.355	-2.355	-2.355
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.13	7.57	8.01	8.46	8.90	9.34	9.78
		Mz	0.01	0.02	0.03	0.03	0.04	0.05	0.06
	Laje	N	425.348	425.348	425.348	425.348	425.348	425.348	425.348
		Vy	-0.623	-0.623	-0.623	-0.623	-0.623	-0.623	-0.623
		Vz	-17.468	-17.468	-17.468	-17.468	-17.468	-17.468	-17.468
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	52.95	56.22	59.49	62.76	66.04	69.31	72.58
		Mz	0.40	0.51	0.63	0.75	0.86	0.98	1.10

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Pavimentação	N	232.748	232.748	232.748	232.748	232.748	232.748	232.748
		Vy	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361
		Vz	-9.562	-9.562	-9.562	-9.562	-9.562	-9.562	-9.562
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	28.89	30.69	32.48	34.27	36.06	37.85	39.64
		Mz	0.24	0.31	0.37	0.44	0.51	0.58	0.64
	Recapeamento	N	105.552	105.552	105.552	105.552	105.552	105.552	105.552
		Vy	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160	-0.160
		Vz	-4.335	-4.335	-4.335	-4.335	-4.335	-4.335	-4.335
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.13	13.94	14.76	15.57	16.38	17.19	18.00
		Mz	0.10	0.13	0.16	0.19	0.23	0.26	0.29
	Vento 0	N	56.114	56.191	56.269	56.346	56.424	56.501	56.579
		Vy	-1.618	-1.888	-2.158	-2.428	-2.698	-2.968	-3.238
		Vz	-1.679	-1.686	-1.692	-1.699	-1.706	-1.713	-1.720
		Mt	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
		My	-0.60	-0.29	0.03	0.35	0.67	0.99	1.31
		Mz	1.88	2.21	2.59	3.02	3.50	4.03	4.61
	Vento 180	N	-56.094	-56.094	-56.094	-56.094	-56.094	-56.094	-56.094
		Vy	1.852	1.852	1.852	1.852	1.852	1.852	1.852
		Vz	1.019	1.019	1.019	1.019	1.019	1.019	1.019
		Mt	0.21	0.21	0.21	0.21	0.21	0.21	0.21
		My	0.56	0.37	0.18	-0.01	-0.20	-0.39	-0.58
		Mz	-2.52	-2.86	-3.21	-3.56	-3.90	-4.25	-4.60
	Multidão (Passeio)	N	74.129	74.129	74.129	74.129	74.129	74.129	74.129
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-3.059	-3.059	-3.059	-3.059	-3.059	-3.059	-3.059
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.26	9.83	10.41	10.98	11.55	12.13	12.70
		Mz	-0.05	-0.05	-0.06	-0.06	-0.06	-0.06	-0.07
	Multidão - TB450	N	242.880	242.880	242.880	242.880	242.880	242.880	242.880
		Vy	-0.529	-0.529	-0.529	-0.529	-0.529	-0.529	-0.529
		Vz	-9.955	-9.955	-9.955	-9.955	-9.955	-9.955	-9.955
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	30.17	32.04	33.90	35.76	37.63	39.49	41.36
		Mz	0.40	0.50	0.60	0.70	0.80	0.90	1.00
	TB-450-A1	N	73.466	73.466	73.466	73.466	73.466	73.466	73.466
		Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vz	7.837	7.837	7.837	7.837	7.837	7.837	7.837
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	15.72	14.25	12.78	11.31	9.84	8.38	6.91
		Mz	-0.56	-0.55	-0.53	-0.52	-0.51	-0.49	-0.48
	TB-450-A2	N	29.840	29.840	29.840	29.840	29.840	29.840	29.840
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	3.317	3.317	3.317	3.317	3.317	3.317	3.317
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.63	6.01	5.39	4.77	4.14	3.52	2.90
		Mz	0.27	0.29	0.31	0.32	0.34	0.36	0.37
	TB-450-B1	N	154.343	154.343	154.343	154.343	154.343	154.343	154.343
		Vy	0.262	0.262	0.262	0.262	0.262	0.262	0.262
		Vz	-15.395	-15.395	-15.395	-15.395	-15.395	-15.395	-15.395
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	43.18	46.07	48.95	51.83	54.72	57.60	60.48
		Mz	0.23	0.19	0.14	0.09	0.04	-0.01	-0.06
	TB-450-B2	N	69.701	69.701	69.701	69.701	69.701	69.701	69.701
		Vy	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vz	-6.513	-6.513	-6.513	-6.513	-6.513	-6.513	-6.513
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	18.27	19.49	20.71	21.93	23.15	24.37	25.59
		Mz	-0.55	-0.57	-0.60	-0.62	-0.65	-0.67	-0.70
	TB-450-C1	N	58.793	58.793	58.793	58.793	58.793	58.793	58.793
		Vy	-0.882	-0.882	-0.882	-0.882	-0.882	-0.882	-0.882
		Vz	-2.887	-2.887	-2.887	-2.887	-2.887	-2.887	-2.887
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	0.21	0.75	1.29	1.83	2.37	2.91	3.46
		Mz	0.82	0.98	1.15	1.31	1.48	1.64	1.81
	TB-450-C2	N	124.473	124.473	124.473	124.473	124.473	124.473	124.473
		Vy	-0.881	-0.881	-0.881	-0.881	-0.881	-0.881	-0.881

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-6.923	-6.923	-6.923	-6.923	-6.923	-6.923	-6.923
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.55	1.85	3.14	4.44	5.73	7.03	8.33
		Mz	0.95	1.12	1.28	1.45	1.61	1.78	1.94
	TB-450-D1	N	73.613	73.613	73.613	73.613	73.613	73.613	73.613
		Vy	0.047	0.047	0.047	0.047	0.047	0.047	0.047
		Vz	-3.331	-3.331	-3.331	-3.331	-3.331	-3.331	-3.331
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.68	-1.06	-0.43	0.19	0.81	1.44	2.06
		Mz	0.01	0.00	-0.01	-0.02	-0.03	-0.04	-0.05
	TB-450-D2	N	35.234	35.234	35.234	35.234	35.234	35.234	35.234
		Vy	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Vz	-1.404	-1.404	-1.404	-1.404	-1.404	-1.404	-1.404
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.68	-0.41	-0.15	0.11	0.37	0.64	0.90
		Mz	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05	-0.05
	TB-450-E1	N	20.685	20.685	20.685	20.685	20.685	20.685	20.685
		Vy	0.062	0.062	0.062	0.062	0.062	0.062	0.062
		Vz	-0.943	-0.943	-0.943	-0.943	-0.943	-0.943	-0.943
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.53	-0.35	-0.17	0.00	0.18	0.36	0.53
		Mz	-0.06	-0.07	-0.08	-0.09	-0.10	-0.12	-0.13
	TB-450-E2	N	11.571	11.571	11.571	11.571	11.571	11.571	11.571
		Vy	0.072	0.072	0.072	0.072	0.072	0.072	0.072
		Vz	-0.453	-0.453	-0.453	-0.453	-0.453	-0.453	-0.453
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.23	-0.15	-0.06	0.02	0.11	0.19	0.28
		Mz	-0.09	-0.10	-0.11	-0.13	-0.14	-0.15	-0.17

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N210/N37	Peso próprio	N	219.858	219.898	219.937

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.224	-0.224	-0.224
		Vz	-110.896	-110.448	-110.001
		Mt	0.05	0.05	0.05
		My	4.15	17.98	31.76
		Mz	0.38	0.41	0.44
	Guarda Corpo	N	61.475	61.475	61.475
		Vy	-0.046	-0.046	-0.046
		Vz	-36.907	-36.907	-36.907
		Mt	0.03	0.03	0.03
		My	1.96	6.58	11.19
		Mz	0.06	0.07	0.07
	Laje	N	456.988	456.988	456.988
		Vy	-0.671	-0.671	-0.671
		Vz	-273.871	-273.871	-273.871
		Mt	0.35	0.35	0.35
		My	14.59	48.82	83.05
		Mz	1.12	1.20	1.28
	Pavimentação	N	250.078	250.078	250.078
		Vy	-0.388	-0.388	-0.388
		Vz	-149.962	-149.962	-149.962
		Mt	0.20	0.20	0.20
		My	7.87	26.61	45.36
		Mz	0.65	0.70	0.75
	Recapeamento	N	113.404	113.404	113.404
		Vy	-0.173	-0.173	-0.173
		Vz	-67.964	-67.964	-67.964
		Mt	0.09	0.09	0.09
		My	3.61	12.11	20.60
		Mz	0.29	0.31	0.33
	Vento 0	N	59.964	60.015	60.067
		Vy	-6.227	-6.407	-6.587
		Vz	-21.260	-21.264	-21.269
		Mt	2.84	2.84	2.84
		My	-4.89	-2.23	0.43

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	4.74	5.53	6.34
	Vento 180	N	-58.741	-58.741	-58.741
		Vy	2.308	2.308	2.308
		Vz	20.591	20.591	20.591
		Mt	-2.87	-2.87	-2.87
		My	4.69	2.12	-0.46
		Mz	-4.77	-5.06	-5.34
	Multidão (Passeio)	N	79.664	79.664	79.664
		Vy	0.011	0.011	0.011
		Vz	-47.921	-47.921	-47.921
		Mt	0.02	0.02	0.02
		My	2.56	8.55	14.54
		Mz	-0.07	-0.07	-0.07
	Multidão - TB450	N	260.922	260.922	260.922
		Vy	-0.567	-0.567	-0.567
		Vz	-156.145	-156.145	-156.145
		Mt	0.27	0.27	0.27
		My	8.29	27.80	47.32
		Mz	1.01	1.08	1.15
	TB-450-A1	N	71.528	71.528	71.528
		Vy	-0.073	-0.073	-0.073
		Vz	22.359	22.359	22.359
		Mt	0.01	0.01	0.01
		My	11.05	8.25	5.46
		Mz	-0.48	-0.47	-0.46
	TB-450-A2	N	29.017	29.017	29.017
		Vy	-0.091	-0.091	-0.091
		Vz	9.483	9.483	9.483
		Mt	-0.01	-0.01	-0.01
		My	4.66	3.47	2.29
		Mz	0.37	0.38	0.40
	TB-450-B1	N	164.338	164.338	164.338
		Vy	0.244	0.244	0.244
		Vz	-108.118	-108.118	-108.118

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.12	0.12	0.12
		My	44.78	58.29	71.81
		Mz	-0.05	-0.08	-0.11
	TB-450-B2	N	73.949	73.949	73.949
		Vy	0.130	0.130	0.130
		Vz	-45.866	-45.866	-45.866
		Mt	0.00	0.00	0.00
		My	18.90	24.64	30.37
		Mz	-0.70	-0.71	-0.73
	TB-450-C1	N	64.801	64.801	64.801
		Vy	-0.910	-0.910	-0.910
		Vz	-48.594	-48.594	-48.594
		Mt	0.20	0.20	0.20
		My	-8.27	-2.20	3.88
		Mz	1.82	1.93	2.04
	TB-450-C2	N	138.646	138.646	138.646
		Vy	-0.933	-0.933	-0.933
		Vz	-114.927	-114.927	-114.927
		Mt	0.37	0.37	0.37
		My	-19.31	-4.95	9.42
		Mz	1.96	2.08	2.20
	TB-450-D1	N	82.557	82.557	82.557
		Vy	0.040	0.040	0.040
		Vz	-71.318	-71.318	-71.318
		Mt	0.05	0.05	0.05
		My	-15.47	-6.56	2.36
		Mz	-0.04	-0.05	-0.05
	TB-450-D2	N	39.040	39.040	39.040
		Vy	0.030	0.030	0.030
		Vz	-30.317	-30.317	-30.317
		Mt	-0.05	-0.05	-0.05
		My	-6.56	-2.77	1.01
		Mz	-0.06	-0.06	-0.06
	TB-450-E1	N	23.266	23.266	23.266

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.060	0.060	0.060
		Vz	-20.553	-20.553	-20.553
		Mt	0.01	0.01	0.01
		My	-4.53	-1.96	0.61
		Mz	-0.13	-0.13	-0.14
	TB-450-E2	N	12.818	12.818	12.818
		Vy	0.077	0.077	0.077
		Vz	-9.929	-9.929	-9.929
		Mt	-0.03	-0.03	-0.03
		My	-2.17	-0.93	0.31
		Mz	-0.17	-0.18	-0.19

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N37/N211	Peso próprio	N	220.341	220.380	220.419
		Vy	1.335	1.335	1.335
		Vz	-97.342	-96.894	-96.447
		Mt	0.09	0.09	0.09
		My	31.44	43.58	55.67
		Mz	0.38	0.22	0.05
	Guarda Corpo	N	62.869	62.869	62.869
		Vy	0.227	0.227	0.227
		Vz	-21.689	-21.689	-21.689
		Mt	0.01	0.01	0.01
		My	10.79	13.50	16.21
		Mz	0.07	0.04	0.02
	Laje	N	467.720	467.720	467.720
		Vy	2.611	2.611	2.611
		Vz	-160.769	-160.769	-160.769
		Mt	0.04	0.04	0.04
		My	80.02	100.11	120.21
		Mz	1.30	0.97	0.65

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	255.950	255.950	255.950
		Vy	1.484	1.484	1.484
		Vz	-88.242	-88.242	-88.242
		Mt	0.02	0.02	0.02
		My	43.70	54.73	65.76
		Mz	0.76	0.57	0.39
	Recapeamento	N	116.073	116.073	116.073
		Vy	0.666	0.666	0.666
		Vz	-39.910	-39.910	-39.910
		Mt	0.01	0.01	0.01
		My	19.85	24.84	29.83
		Mz	0.34	0.25	0.17
	Vento 0	N	79.542	79.594	79.646
		Vy	-11.764	-11.944	-12.125
		Vz	-20.736	-20.740	-20.745
		Mt	-1.57	-1.57	-1.57
		My	-0.51	2.08	4.67
		Mz	7.90	9.38	10.89
	Vento 180	N	-80.148	-80.148	-80.148
		Vy	15.157	15.157	15.157
		Vz	20.259	20.259	20.259
		Mt	1.47	1.47	1.47
		My	0.47	-2.07	-4.60
		Mz	-7.09	-8.99	-10.88
	Multidão (Passeio)	N	81.393	81.393	81.393
		Vy	0.097	0.097	0.097
		Vz	-28.185	-28.185	-28.185
		Mt	0.01	0.01	0.01
		My	14.01	17.54	21.06
		Mz	-0.07	-0.08	-0.09
	Multidão - TB450	N	267.250	267.250	267.250
		Vy	2.007	2.007	2.007
		Vz	-91.634	-91.634	-91.634
		Mt	0.02	0.02	0.02

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	45.57	57.03	68.48
		Mz	1.16	0.91	0.66
	TB-450-A1	N	71.581	71.581	71.581
		Vy	-0.376	-0.376	-0.376
		Vz	22.366	22.366	22.366
		Mt	0.05	0.05	0.05
		My	5.46	2.67	-0.13
		Mz	-0.46	-0.42	-0.37
	TB-450-A2	N	29.031	29.031	29.031
		Vy	-0.053	-0.053	-0.053
		Vz	9.493	9.493	9.493
		Mt	0.01	0.01	0.01
		My	2.29	1.10	-0.08
		Mz	0.39	0.40	0.40
	TB-450-B1	N	175.876	175.876	175.876
		Vy	0.319	0.319	0.319
		Vz	13.958	13.958	13.958
		Mt	-0.07	-0.07	-0.07
		My	68.56	66.81	65.07
		Mz	-0.05	-0.09	-0.13
	TB-450-B2	N	79.014	79.014	79.014
		Vy	-0.762	-0.762	-0.762
		Vz	5.672	5.672	5.672
		Mt	-0.05	-0.05	-0.05
		My	29.00	28.29	27.59
		Mz	-0.69	-0.59	-0.50
	TB-450-C1	N	64.824	64.824	64.824
		Vy	2.138	2.138	2.138
		Vz	-48.479	-48.479	-48.479
		Mt	0.09	0.09	0.09
		My	3.85	9.91	15.97
		Mz	2.00	1.73	1.47
	TB-450-C2	N	139.232	139.232	139.232
		Vy	3.481	3.481	3.481

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-114.766	-114.766	-114.766
		Mt	0.01	0.01	0.01
		My	9.34	23.69	38.04
		Mz	2.19	1.76	1.32
	TB-450-D1	N	82.845	82.845	82.845
		Vy	0.042	0.042	0.042
		Vz	-71.303	-71.303	-71.303
		Mt	-0.03	-0.03	-0.03
		My	2.34	11.25	20.16
		Mz	-0.03	-0.03	-0.04
	TB-450-D2	N	38.605	38.605	38.605
		Vy	-0.096	-0.096	-0.096
		Vz	-30.336	-30.336	-30.336
		Mt	0.06	0.06	0.06
		My	1.04	4.83	8.62
		Mz	-0.10	-0.08	-0.07
	TB-450-E1	N	23.324	23.324	23.324
		Vy	0.091	0.091	0.091
		Vz	-20.548	-20.548	-20.548
		Mt	-0.02	-0.02	-0.02
		My	0.60	3.17	5.74
		Mz	-0.13	-0.14	-0.16
	TB-450-E2	N	12.529	12.529	12.529
		Vy	0.124	0.124	0.124
		Vz	-9.937	-9.937	-9.937
		Mt	0.03	0.03	0.03
		My	0.32	1.56	2.81
		Mz	-0.21	-0.22	-0.24

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N211/N73	Peso próprio	N	246.408	246.467	246.525	246.584	246.643	246.702	246.761

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	1.331	1.331	1.331	1.331	1.331	1.331	1.331
		Vz	-8.805	-8.134	-7.463	-6.793	-6.122	-5.452	-4.781
		Mt	0.19	0.19	0.19	0.19	0.19	0.19	0.19
		My	29.73	31.31	32.78	34.11	35.32	36.40	37.36
		Mz	0.03	-0.22	-0.47	-0.72	-0.97	-1.22	-1.47
	Guarda Corpo	N	69.321	69.321	69.321	69.321	69.321	69.321	69.321
		Vy	0.223	0.223	0.223	0.223	0.223	0.223	0.223
		Vz	-1.223	-1.223	-1.223	-1.223	-1.223	-1.223	-1.223
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	9.06	9.29	9.52	9.75	9.98	10.21	10.44
		Mz	0.01	-0.04	-0.08	-0.12	-0.16	-0.20	-0.24
	Laje	N	515.614	515.614	515.614	515.614	515.614	515.614	515.614
		Vy	2.571	2.571	2.571	2.571	2.571	2.571	2.571
		Vz	-8.815	-8.815	-8.815	-8.815	-8.815	-8.815	-8.815
		Mt	0.50	0.50	0.50	0.50	0.50	0.50	0.50
		My	67.18	68.83	70.48	72.13	73.78	75.43	77.08
		Mz	0.54	0.06	-0.42	-0.90	-1.38	-1.87	-2.35
	Pavimentação	N	282.224	282.224	282.224	282.224	282.224	282.224	282.224
		Vy	1.461	1.461	1.461	1.461	1.461	1.461	1.461
		Vz	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860
		Mt	0.28	0.28	0.28	0.28	0.28	0.28	0.28
		My	36.68	37.59	38.50	39.41	40.32	41.23	42.15
		Mz	0.33	0.06	-0.22	-0.49	-0.77	-1.04	-1.31
	Recapeamento	N	127.962	127.962	127.962	127.962	127.962	127.962	127.962
		Vy	0.656	0.656	0.656	0.656	0.656	0.656	0.656
		Vz	-2.186	-2.186	-2.186	-2.186	-2.186	-2.186	-2.186
		Mt	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		My	16.66	17.07	17.48	17.89	18.30	18.71	19.12
		Mz	0.14	0.02	-0.10	-0.22	-0.35	-0.47	-0.59
	Vento 0	N	87.209	87.286	87.364	87.441	87.519	87.596	87.674
		Vy	-15.306	-15.576	-15.846	-16.116	-16.386	-16.656	-16.926
		Vz	2.177	2.170	2.163	2.157	2.150	2.143	2.136
		Mt	2.93	2.93	2.93	2.93	2.93	2.93	2.93
		My	-2.65	-3.06	-3.46	-3.87	-4.27	-4.67	-5.08

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	10.06	12.95	15.89	18.88	21.93	25.02	28.17
	Vento 180	N	-86.916	-86.916	-86.916	-86.916	-86.916	-86.916	-86.916
		Vy	15.720	15.720	15.720	15.720	15.720	15.720	15.720
		Vz	-2.607	-2.607	-2.607	-2.607	-2.607	-2.607	-2.607
		Mt	-2.78	-2.78	-2.78	-2.78	-2.78	-2.78	-2.78
		My	1.74	2.23	2.72	3.20	3.69	4.18	4.67
		Mz	-9.93	-12.87	-15.82	-18.76	-21.70	-24.65	-27.59
	Multidão (Passeio)	N	89.763	89.763	89.763	89.763	89.763	89.763	89.763
		Vy	0.096	0.096	0.096	0.096	0.096	0.096	0.096
		Vz	-1.640	-1.640	-1.640	-1.640	-1.640	-1.640	-1.640
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	11.79	12.09	12.40	12.71	13.02	13.32	13.63
		Mz	-0.10	-0.11	-0.13	-0.15	-0.17	-0.19	-0.20
	Multidão - TB450	N	294.582	294.582	294.582	294.582	294.582	294.582	294.582
		Vy	1.975	1.975	1.975	1.975	1.975	1.975	1.975
		Vz	-4.897	-4.897	-4.897	-4.897	-4.897	-4.897	-4.897
		Mt	0.37	0.37	0.37	0.37	0.37	0.37	0.37
		My	38.23	39.15	40.07	40.98	41.90	42.82	43.73
		Mz	0.58	0.21	-0.16	-0.53	-0.90	-1.27	-1.64
	TB-450-A1	N	65.135	65.135	65.135	65.135	65.135	65.135	65.135
		Vy	-0.374	-0.374	-0.374	-0.374	-0.374	-0.374	-0.374
		Vz	1.056	1.056	1.056	1.056	1.056	1.056	1.056
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	6.04	5.84	5.64	5.44	5.25	5.05	4.85
		Mz	-0.37	-0.30	-0.23	-0.16	-0.09	-0.02	0.05
	TB-450-A2	N	26.302	26.302	26.302	26.302	26.302	26.302	26.302
		Vy	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vz	0.475	0.475	0.475	0.475	0.475	0.475	0.475
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	2.53	2.44	2.35	2.26	2.17	2.08	2.00
		Mz	0.40	0.41	0.42	0.43	0.44	0.45	0.46
	TB-450-B1	N	175.776	175.776	175.776	175.776	175.776	175.776	175.776
		Vy	0.307	0.307	0.307	0.307	0.307	0.307	0.307
		Vz	7.117	7.117	7.117	7.117	7.117	7.117	7.117

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	59.56	58.22	56.89	55.56	54.23	52.89	51.56
		Mz	-0.15	-0.20	-0.26	-0.32	-0.38	-0.43	-0.49
	TB-450-B2	N	79.023	79.023	79.023	79.023	79.023	79.023	79.023
		Vy	-0.769	-0.769	-0.769	-0.769	-0.769	-0.769	-0.769
		Vz	2.952	2.952	2.952	2.952	2.952	2.952	2.952
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.21	24.65	24.10	23.55	22.99	22.44	21.89
		Mz	-0.51	-0.37	-0.22	-0.08	0.07	0.21	0.35
	TB-450-C1	N	77.838	77.838	77.838	77.838	77.838	77.838	77.838
		Vy	2.111	2.111	2.111	2.111	2.111	2.111	2.111
		Vz	-5.498	-5.498	-5.498	-5.498	-5.498	-5.498	-5.498
		Mt	0.45	0.45	0.45	0.45	0.45	0.45	0.45
		My	2.99	4.02	5.05	6.08	7.11	8.14	9.17
		Mz	1.38	0.99	0.59	0.20	-0.20	-0.59	-0.99
	TB-450-C2	N	169.779	169.779	169.779	169.779	169.779	169.779	169.779
		Vy	3.439	3.439	3.439	3.439	3.439	3.439	3.439
		Vz	-13.977	-13.977	-13.977	-13.977	-13.977	-13.977	-13.977
		Mt	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		My	7.51	10.13	12.74	15.36	17.98	20.60	23.22
		Mz	1.22	0.58	-0.07	-0.71	-1.36	-2.00	-2.65
	TB-450-D1	N	103.583	103.583	103.583	103.583	103.583	103.583	103.583
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-2.888	-2.888	-2.888	-2.888	-2.888	-2.888	-2.888
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.34	0.20	0.74	1.28	1.83	2.37	2.91
		Mz	-0.05	-0.05	-0.06	-0.07	-0.07	-0.08	-0.09
	TB-450-D2	N	47.421	47.421	47.421	47.421	47.421	47.421	47.421
		Vy	-0.088	-0.088	-0.088	-0.088	-0.088	-0.088	-0.088
		Vz	-1.252	-1.252	-1.252	-1.252	-1.252	-1.252	-1.252
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.10	0.14	0.37	0.61	0.84	1.08	1.31
		Mz	-0.06	-0.04	-0.03	-0.01	0.01	0.02	0.04
	TB-450-E1	N	29.327	29.327	29.327	29.327	29.327	29.327	29.327

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	0.090	0.090	0.090	0.090	0.090	0.090	0.090
		Vz	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-0.19	-0.05	0.09	0.23	0.37	0.51	0.65
		Mz	-0.16	-0.17	-0.19	-0.21	-0.22	-0.24	-0.26
	TB-450-E2	N	15.420	15.420	15.420	15.420	15.420	15.420	15.420
		Vy	0.132	0.132	0.132	0.132	0.132	0.132	0.132
		Vz	-0.403	-0.403	-0.403	-0.403	-0.403	-0.403	-0.403
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-0.05	0.02	0.10	0.17	0.25	0.32	0.40
		Mz	-0.23	-0.25	-0.28	-0.30	-0.33	-0.35	-0.38

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N73/N212	Peso próprio	N	246.761	246.819	246.878	246.937	246.996	247.055	247.113
		Vy	1.331	1.331	1.331	1.331	1.331	1.331	1.331
		Vz	-4.781	-4.111	-3.440	-2.770	-2.099	-1.429	-0.758
		Mt	0.19	0.19	0.19	0.19	0.19	0.19	0.19
		My	37.36	38.19	38.90	39.48	39.94	40.27	40.47
		Mz	-1.47	-1.72	-1.97	-2.22	-2.47	-2.72	-2.96
	Guarda Corpo	N	69.321	69.321	69.321	69.321	69.321	69.321	69.321
		Vy	0.223	0.223	0.223	0.223	0.223	0.223	0.223
		Vz	-1.223	-1.223	-1.223	-1.223	-1.223	-1.223	-1.223
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	10.44	10.67	10.89	11.12	11.35	11.58	11.81
		Mz	-0.24	-0.29	-0.33	-0.37	-0.41	-0.45	-0.49
	Laje	N	515.614	515.614	515.614	515.614	515.614	515.614	515.614
		Vy	2.571	2.571	2.571	2.571	2.571	2.571	2.571
		Vz	-8.815	-8.815	-8.815	-8.815	-8.815	-8.815	-8.815
		Mt	0.50	0.50	0.50	0.50	0.50	0.50	0.50
		My	77.08	78.73	80.38	82.04	83.69	85.34	86.99
		Mz	-2.35	-2.83	-3.31	-3.79	-4.27	-4.75	-5.24

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Pavimentação	N	282.224	282.224	282.224	282.224	282.224	282.224	282.224
		Vy	1.461	1.461	1.461	1.461	1.461	1.461	1.461
		Vz	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860
		Mt	0.28	0.28	0.28	0.28	0.28	0.28	0.28
		My	42.15	43.06	43.97	44.88	45.79	46.70	47.61
		Mz	-1.31	-1.59	-1.86	-2.13	-2.41	-2.68	-2.95
	Recapeamento	N	127.962	127.962	127.962	127.962	127.962	127.962	127.962
		Vy	0.656	0.656	0.656	0.656	0.656	0.656	0.656
		Vz	-2.186	-2.186	-2.186	-2.186	-2.186	-2.186	-2.186
		Mt	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		My	19.12	19.53	19.94	20.35	20.76	21.17	21.58
		Mz	-0.59	-0.72	-0.84	-0.96	-1.08	-1.21	-1.33
	Vento 0	N	87.674	87.751	87.829	87.906	87.984	88.061	88.139
		Vy	-16.926	-17.196	-17.466	-17.736	-18.006	-18.276	-18.546
		Vz	2.136	2.129	2.123	2.116	2.109	2.102	2.096
		Mt	2.93	2.93	2.93	2.93	2.93	2.93	2.93
		My	-5.08	-5.47	-5.87	-6.27	-6.67	-7.06	-7.45
		Mz	28.17	31.36	34.61	37.90	41.25	44.65	48.10
	Vento 180	N	-86.916	-86.916	-86.916	-86.916	-86.916	-86.916	-86.916
		Vy	15.720	15.720	15.720	15.720	15.720	15.720	15.720
		Vz	-2.607	-2.607	-2.607	-2.607	-2.607	-2.607	-2.607
		Mt	-2.78	-2.78	-2.78	-2.78	-2.78	-2.78	-2.78
		My	4.67	5.16	5.64	6.13	6.62	7.11	7.60
		Mz	-27.59	-30.54	-33.48	-36.42	-39.37	-42.31	-45.26
	Multidão (Passeio)	N	89.763	89.763	89.763	89.763	89.763	89.763	89.763
		Vy	0.096	0.096	0.096	0.096	0.096	0.096	0.096
		Vz	-1.640	-1.640	-1.640	-1.640	-1.640	-1.640	-1.640
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	13.63	13.94	14.24	14.55	14.86	15.17	15.47
		Mz	-0.20	-0.22	-0.24	-0.26	-0.28	-0.29	-0.31
	Multidão - TB450	N	294.582	294.582	294.582	294.582	294.582	294.582	294.582
		Vy	1.975	1.975	1.975	1.975	1.975	1.975	1.975
		Vz	-4.897	-4.897	-4.897	-4.897	-4.897	-4.897	-4.897
		Mt	0.37	0.37	0.37	0.37	0.37	0.37	0.37

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	43.73	44.65	45.57	46.49	47.40	48.32	49.24
		Mz	-1.64	-2.01	-2.38	-2.75	-3.12	-3.49	-3.86
	TB-450-A1	N	65.135	65.135	65.135	65.135	65.135	65.135	65.135
		Vy	-0.374	-0.374	-0.374	-0.374	-0.374	-0.374	-0.374
		Vz	1.056	1.056	1.056	1.056	1.056	1.056	1.056
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	4.85	4.65	4.45	4.26	4.06	3.86	3.66
		Mz	0.05	0.12	0.19	0.26	0.33	0.40	0.47
	TB-450-A2	N	26.302	26.302	26.302	26.302	26.302	26.302	26.302
		Vy	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vz	0.475	0.475	0.475	0.475	0.475	0.475	0.475
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	2.00	1.91	1.82	1.73	1.64	1.55	1.46
		Mz	0.46	0.47	0.48	0.49	0.50	0.51	0.52
	TB-450-B1	N	175.776	175.776	175.776	175.776	175.776	175.776	175.776
		Vy	0.307	0.307	0.307	0.307	0.307	0.307	0.307
		Vz	7.117	7.117	7.117	7.117	7.117	7.117	7.117
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	51.56	50.23	48.89	47.56	46.23	44.89	43.56
		Mz	-0.49	-0.55	-0.60	-0.66	-0.72	-0.78	-0.83
	TB-450-B2	N	79.023	79.023	79.023	79.023	79.023	79.023	79.023
		Vy	-0.769	-0.769	-0.769	-0.769	-0.769	-0.769	-0.769
		Vz	2.952	2.952	2.952	2.952	2.952	2.952	2.952
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.89	21.34	20.78	20.23	19.68	19.12	18.57
		Mz	0.35	0.50	0.64	0.79	0.93	1.07	1.22
	TB-450-C1	N	77.838	77.838	77.838	77.838	77.838	77.838	77.838
		Vy	2.111	2.111	2.111	2.111	2.111	2.111	2.111
		Vz	-5.498	-5.498	-5.498	-5.498	-5.498	-5.498	-5.498
		Mt	0.45	0.45	0.45	0.45	0.45	0.45	0.45
		My	9.17	10.20	11.23	12.26	13.29	14.32	15.35
		Mz	-0.99	-1.38	-1.78	-2.18	-2.57	-2.97	-3.36
	TB-450-C2	N	169.779	169.779	169.779	169.779	169.779	169.779	169.779
		Vy	3.439	3.439	3.439	3.439	3.439	3.439	3.439

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-13.977	-13.977	-13.977	-13.977	-13.977	-13.977	-13.977
		Mt	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		My	23.22	25.83	28.45	31.07	33.69	36.30	38.92
		Mz	-2.65	-3.29	-3.93	-4.58	-5.22	-5.87	-6.51
	TB-450-D1	N	103.583	103.583	103.583	103.583	103.583	103.583	103.583
		Vy	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vz	-2.888	-2.888	-2.888	-2.888	-2.888	-2.888	-2.888
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.91	3.45	3.99	4.53	5.07	5.61	6.15
		Mz	-0.09	-0.10	-0.10	-0.11	-0.12	-0.12	-0.13
	TB-450-D2	N	47.421	47.421	47.421	47.421	47.421	47.421	47.421
		Vy	-0.088	-0.088	-0.088	-0.088	-0.088	-0.088	-0.088
		Vz	-1.252	-1.252	-1.252	-1.252	-1.252	-1.252	-1.252
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.31	1.55	1.78	2.01	2.25	2.48	2.72
		Mz	0.04	0.05	0.07	0.09	0.10	0.12	0.14
	TB-450-E1	N	29.327	29.327	29.327	29.327	29.327	29.327	29.327
		Vy	0.090	0.090	0.090	0.090	0.090	0.090	0.090
		Vz	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746	-0.746
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	0.65	0.79	0.93	1.07	1.20	1.34	1.48
		Mz	-0.26	-0.27	-0.29	-0.31	-0.33	-0.34	-0.36
	TB-450-E2	N	15.420	15.420	15.420	15.420	15.420	15.420	15.420
		Vy	0.132	0.132	0.132	0.132	0.132	0.132	0.132
		Vz	-0.403	-0.403	-0.403	-0.403	-0.403	-0.403	-0.403
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	0.40	0.47	0.55	0.62	0.70	0.77	0.85
		Mz	-0.38	-0.40	-0.42	-0.45	-0.47	-0.50	-0.52

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N212/N9	Peso próprio	N	255.749	255.788	255.828

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	1.019	1.019	1.019
		Vz	-66.458	-66.011	-65.563
		Mt	2.13	2.13	2.13
		My	25.03	33.31	41.53
		Mz	-2.86	-2.98	-3.11
	Guarda Corpo	N	71.807	71.807	71.807
		Vy	0.146	0.146	0.146
		Vz	-23.331	-23.331	-23.331
		Mt	0.52	0.52	0.52
		My	7.66	10.58	13.50
		Mz	-0.47	-0.49	-0.51
	Laje	N	534.091	534.091	534.091
		Vy	1.732	1.732	1.732
		Vz	-173.056	-173.056	-173.056
		Mt	5.69	5.69	5.69
		My	56.14	77.77	99.40
		Mz	-4.95	-5.16	-5.38
	Pavimentação	N	292.364	292.364	292.364
		Vy	0.985	0.985	0.985
		Vz	-94.964	-94.964	-94.964
		Mt	3.23	3.23	3.23
		My	30.67	42.54	54.41
		Mz	-2.79	-2.91	-3.04
	Recapeamento	N	132.549	132.549	132.549
		Vy	0.442	0.442	0.442
		Vz	-42.960	-42.960	-42.960
		Mt	1.45	1.45	1.45
		My	13.92	19.29	24.66
		Mz	-1.26	-1.31	-1.37
	Vento 0	N	92.047	92.099	92.150
		Vy	-26.312	-26.493	-26.673
		Vz	-21.409	-21.414	-21.418
		Mt	34.87	34.87	34.87
		My	-15.04	-12.37	-9.69

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	49.83	53.13	56.46
	Vento 180	N	-90.050	-90.050	-90.050
		Vy	20.744	20.744	20.744
		Vz	20.716	20.716	20.716
		Mt	-33.46	-33.46	-33.46
		My	14.16	11.58	8.99
		Mz	-46.97	-49.56	-52.15
	Multidão (Passeio)	N	92.984	92.984	92.984
		Vy	0.053	0.053	0.053
		Vz	-30.298	-30.298	-30.298
		Mt	0.29	0.29	0.29
		My	10.11	13.90	17.68
		Mz	-0.30	-0.30	-0.31
	Multidão - TB450	N	305.139	305.139	305.139
		Vy	1.347	1.347	1.347
		Vz	-98.689	-98.689	-98.689
		Mt	4.26	4.26	4.26
		My	31.59	43.93	56.26
		Mz	-3.64	-3.81	-3.98
	TB-450-A1	N	62.072	62.072	62.072
		Vy	-0.437	-0.437	-0.437
		Vz	23.619	23.619	23.619
		Mt	0.42	0.42	0.42
		My	9.83	6.88	3.93
		Mz	0.50	0.55	0.60
	TB-450-A2	N	25.007	25.007	25.007
		Vy	-0.113	-0.113	-0.113
		Vz	10.024	10.024	10.024
		Mt	0.38	0.38	0.38
		My	4.07	2.81	1.56
		Mz	0.54	0.56	0.57
	TB-450-B1	N	174.524	174.524	174.524
		Vy	0.320	0.320	0.320
		Vz	5.405	5.405	5.405

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-0.08	-0.08	-0.08
		My	48.90	48.23	47.55
		Mz	-0.84	-0.88	-0.92
	TB-450-B2	N	78.515	78.515	78.515
		Vy	-0.778	-0.778	-0.778
		Vz	2.040	2.040	2.040
		Mt	0.05	0.05	0.05
		My	20.80	20.54	20.29
		Mz	1.22	1.32	1.41
	TB-450-C1	N	83.058	83.058	83.058
		Vy	1.349	1.349	1.349
		Vz	-49.818	-49.818	-49.818
		Mt	5.15	5.15	5.15
		My	6.05	12.28	18.51
		Mz	-3.10	-3.27	-3.44
	TB-450-C2	N	181.947	181.947	181.947
		Vy	2.624	2.624	2.624
		Vz	-117.709	-117.709	-117.709
		Mt	5.54	5.54	5.54
		My	17.40	32.12	46.83
		Mz	-6.23	-6.56	-6.89
	TB-450-D1	N	112.617	112.617	112.617
		Vy	0.032	0.032	0.032
		Vz	-73.474	-73.474	-73.474
		Mt	0.04	0.04	0.04
		My	-11.23	-2.04	7.14
		Mz	-0.13	-0.13	-0.14
	TB-450-D2	N	51.260	51.260	51.260
		Vy	-0.085	-0.085	-0.085
		Vz	-31.271	-31.271	-31.271
		Mt	-0.01	-0.01	-0.01
		My	-4.67	-0.76	3.15
		Mz	0.14	0.15	0.16
	TB-450-E1	N	31.958	31.958	31.958

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.114	0.114	0.114
		Vz	-21.270	-21.270	-21.270
		Mt	-0.16	-0.16	-0.16
		My	-3.59	-0.93	1.73
		Mz	-0.37	-0.38	-0.40
	TB-450-E2	N	16.686	16.686	16.686
		Vy	0.186	0.186	0.186
		Vz	-10.296	-10.296	-10.296
		Mt	-0.35	-0.35	-0.35
		My	-1.58	-0.30	0.99
		Mz	-0.54	-0.56	-0.59

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
N1/N59	Peso próprio	N	76.577	76.649	76.721	76.793	76.864	76.936	77.008
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	7.832	8.652	9.472	10.291	11.111	11.931	12.751
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.89	-3.96	-6.22	-8.67	-11.31	-14.14
		Mz	0.00	0.01	0.01	0.02	0.02	0.03	0.04
	Guarda Corpo	N	20.775	20.775	20.775	20.775	20.775	20.775	20.775
		Vy	0.085	0.085	0.085	0.085	0.085	0.085	0.085
		Vz	3.840	3.840	3.840	3.840	3.840	3.840	3.840
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.88	-1.76	-2.64	-3.52	-4.40	-5.27
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.12
	Laje	N	154.909	154.909	154.909	154.909	154.909	154.909	154.909
		Vy	0.759	0.759	0.759	0.759	0.759	0.759	0.759
		Vz	28.521	28.521	28.521	28.521	28.521	28.521	28.521
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-6.53	-13.06	-19.59	-26.12	-32.65	-39.18
		Mz	0.00	-0.17	-0.35	-0.52	-0.70	-0.87	-1.04

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
	Pavimentação	N	84.897	84.897	84.897	84.897	84.897	84.897	84.897
		Vy	0.412	0.412	0.412	0.412	0.412	0.412	0.412
		Vz	15.680	15.680	15.680	15.680	15.680	15.680	15.680
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-3.59	-7.18	-10.77	-14.36	-17.95	-21.54
		Mz	0.00	-0.09	-0.19	-0.28	-0.38	-0.47	-0.57
	Recapeamento	N	38.447	38.447	38.447	38.447	38.447	38.447	38.447
		Vy	0.191	0.191	0.191	0.191	0.191	0.191	0.191
		Vz	7.078	7.078	7.078	7.078	7.078	7.078	7.078
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.62	-3.24	-4.86	-6.48	-8.10	-9.72
		Mz	0.00	-0.04	-0.09	-0.13	-0.17	-0.22	-0.26
	Vento 0	N	-12.160	-12.160	-12.160	-12.160	-12.160	-12.160	-12.160
		Vy	38.193	38.193	38.193	38.193	38.193	38.193	38.193
		Vz	-1.795	-1.795	-1.795	-1.795	-1.795	-1.795	-1.795
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.41	0.82	1.23	1.64	2.06	2.47
		Mz	0.00	-8.74	-17.49	-26.23	-34.98	-43.72	-52.47
	Vento 180	N	13.267	13.173	13.078	12.983	12.888	12.794	12.699
		Vy	-39.937	-39.607	-39.277	-38.947	-38.617	-38.287	-37.957
		Vz	2.067	2.075	2.083	2.091	2.100	2.108	2.116
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.47	-0.95	-1.43	-1.91	-2.39	-2.87
		Mz	0.00	9.11	18.14	27.09	35.97	44.78	53.50
	Multidão (Passeio)	N	26.823	26.823	26.823	26.823	26.823	26.823	26.823
		Vy	0.083	0.083	0.083	0.083	0.083	0.083	0.083
		Vz	4.979	4.979	4.979	4.979	4.979	4.979	4.979
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.14	-2.28	-3.42	-4.56	-5.70	-6.84
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.11
	Multidão - TB450	N	88.696	88.696	88.696	88.696	88.696	88.696	88.696
		Vy	0.504	0.504	0.504	0.504	0.504	0.504	0.504
		Vz	16.277	16.277	16.277	16.277	16.277	16.277	16.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
		My	0.00	-3.73	-7.45	-11.18	-14.91	-18.63	-22.36
		Mz	0.00	-0.12	-0.23	-0.35	-0.46	-0.58	-0.69
	TB-450-A1	N	18.501	18.501	18.501	18.501	18.501	18.501	18.501
		Vy	0.386	0.386	0.386	0.386	0.386	0.386	0.386
		Vz	-2.259	-2.259	-2.259	-2.259	-2.259	-2.259	-2.259
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.52	1.03	1.55	2.07	2.59	3.10
		Mz	0.00	-0.09	-0.18	-0.26	-0.35	-0.44	-0.53
	TB-450-A2	N	44.090	44.090	44.090	44.090	44.090	44.090	44.090
		Vy	0.531	0.531	0.531	0.531	0.531	0.531	0.531
		Vz	-5.369	-5.369	-5.369	-5.369	-5.369	-5.369	-5.369
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	1.23	2.46	3.69	4.92	6.15	7.38
		Mz	0.00	-0.12	-0.24	-0.36	-0.49	-0.61	-0.73
	TB-450-B1	N	25.145	25.145	25.145	25.145	25.145	25.145	25.145
		Vy	0.615	0.615	0.615	0.615	0.615	0.615	0.615
		Vz	6.186	6.186	6.186	6.186	6.186	6.186	6.186
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.42	-2.83	-4.25	-5.67	-7.08	-8.50
		Mz	0.00	-0.14	-0.28	-0.42	-0.56	-0.70	-0.84
	TB-450-B2	N	50.197	50.197	50.197	50.197	50.197	50.197	50.197
		Vy	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636
		Vz	14.519	14.519	14.519	14.519	14.519	14.519	14.519
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-3.32	-6.65	-9.97	-13.30	-16.62	-19.95
		Mz	0.00	0.15	0.29	0.44	0.58	0.73	0.87
	TB-450-C1	N	34.586	34.586	34.586	34.586	34.586	34.586	34.586
		Vy	-0.824	-0.824	-0.824	-0.824	-0.824	-0.824	-0.824
		Vz	11.841	11.841	11.841	11.841	11.841	11.841	11.841
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.71	-5.42	-8.13	-10.84	-13.56	-16.27
		Mz	0.00	0.19	0.38	0.57	0.75	0.94	1.13
	TB-450-C2	N	20.816	20.816	20.816	20.816	20.816	20.816	20.816
		Vy	1.001	1.001	1.001	1.001	1.001	1.001	1.001

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
		Vz	5.094	5.094	5.094	5.094	5.094	5.094	5.094
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.17	-2.33	-3.50	-4.67	-5.83	-7.00
		Mz	0.00	-0.23	-0.46	-0.69	-0.92	-1.15	-1.37
	TB-450-D1	N	13.315	13.315	13.315	13.315	13.315	13.315	13.315
		Vy	0.767	0.767	0.767	0.767	0.767	0.767	0.767
		Vz	3.098	3.098	3.098	3.098	3.098	3.098	3.098
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.71	-1.42	-2.13	-2.84	-3.55	-4.26
		Mz	0.00	-0.18	-0.35	-0.53	-0.70	-0.88	-1.05
	TB-450-D2	N	19.836	19.836	19.836	19.836	19.836	19.836	19.836
		Vy	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726
		Vz	7.185	7.185	7.185	7.185	7.185	7.185	7.185
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.65	-3.29	-4.94	-6.58	-8.23	-9.87
		Mz	0.00	0.17	0.33	0.50	0.67	0.83	1.00
	TB-450-E1	N	4.442	4.442	4.442	4.442	4.442	4.442	4.442
		Vy	0.331	0.331	0.331	0.331	0.331	0.331	0.331
		Vz	0.926	0.926	0.926	0.926	0.926	0.926	0.926
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.21	-0.42	-0.64	-0.85	-1.06	-1.27
		Mz	0.00	-0.08	-0.15	-0.23	-0.30	-0.38	-0.45
	TB-450-E2	N	6.731	6.731	6.731	6.731	6.731	6.731	6.731
		Vy	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278
		Vz	2.479	2.479	2.479	2.479	2.479	2.479	2.479
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.57	-1.14	-1.70	-2.27	-2.84	-3.41
		Mz	0.00	0.06	0.13	0.19	0.25	0.32	0.38

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N59/N188	Peso próprio	N	77.008	77.067	77.126	77.185	77.243	77.302	77.361

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	12.751	13.421	14.092	14.762	15.433	16.103	16.774
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.14	-16.59	-19.17	-21.87	-24.70	-27.65	-30.73
		Mz	0.04	0.04	0.05	0.05	0.06	0.06	0.07
	Guarda Corpo	N	20.775	20.775	20.775	20.775	20.775	20.775	20.775
		Vy	0.085	0.085	0.085	0.085	0.085	0.085	0.085
		Vz	3.840	3.840	3.840	3.840	3.840	3.840	3.840
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.27	-5.99	-6.71	-7.43	-8.15	-8.87	-9.59
		Mz	-0.12	-0.13	-0.15	-0.16	-0.18	-0.20	-0.21
	Laje	N	154.909	154.909	154.909	154.909	154.909	154.909	154.909
		Vy	0.759	0.759	0.759	0.759	0.759	0.759	0.759
		Vz	28.521	28.521	28.521	28.521	28.521	28.521	28.521
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-39.18	-44.52	-49.87	-55.21	-60.55	-65.89	-71.23
		Mz	-1.04	-1.18	-1.33	-1.47	-1.61	-1.75	-1.90
	Pavimentação	N	84.897	84.897	84.897	84.897	84.897	84.897	84.897
		Vy	0.412	0.412	0.412	0.412	0.412	0.412	0.412
		Vz	15.680	15.680	15.680	15.680	15.680	15.680	15.680
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-21.54	-24.48	-27.41	-30.35	-33.29	-36.22	-39.16
		Mz	-0.57	-0.64	-0.72	-0.80	-0.87	-0.95	-1.03
	Recapeamento	N	38.447	38.447	38.447	38.447	38.447	38.447	38.447
		Vy	0.191	0.191	0.191	0.191	0.191	0.191	0.191
		Vz	7.078	7.078	7.078	7.078	7.078	7.078	7.078
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.72	-11.05	-12.38	-13.70	-15.03	-16.35	-17.68
		Mz	-0.26	-0.30	-0.33	-0.37	-0.40	-0.44	-0.48
	Vento 0	N	-12.160	-12.160	-12.160	-12.160	-12.160	-12.160	-12.160
		Vy	38.193	38.193	38.193	38.193	38.193	38.193	38.193
		Vz	-1.795	-1.795	-1.795	-1.795	-1.795	-1.795	-1.795
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.47	2.80	3.14	3.48	3.81	4.15	4.48

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-52.47	-59.62	-66.78	-73.93	-81.08	-88.24	-95.39
	Vento 180	N	12.699	12.621	12.544	12.466	12.389	12.311	12.234
		Vy	-37.957	-37.687	-37.417	-37.147	-36.877	-36.607	-36.337
		Vz	2.116	2.123	2.130	2.137	2.144	2.150	2.157
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.87	-3.27	-3.67	-4.07	-4.47	-4.87	-5.27
		Mz	53.50	60.59	67.62	74.60	81.54	88.42	95.25
	Multidão (Passeio)	N	26.823	26.823	26.823	26.823	26.823	26.823	26.823
		Vy	0.083	0.083	0.083	0.083	0.083	0.083	0.083
		Vz	4.979	4.979	4.979	4.979	4.979	4.979	4.979
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.84	-7.77	-8.71	-9.64	-10.57	-11.50	-12.44
		Mz	-0.11	-0.13	-0.15	-0.16	-0.18	-0.19	-0.21
	Multidão - TB450	N	88.696	88.696	88.696	88.696	88.696	88.696	88.696
		Vy	0.504	0.504	0.504	0.504	0.504	0.504	0.504
		Vz	16.277	16.277	16.277	16.277	16.277	16.277	16.277
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-22.36	-25.41	-28.46	-31.51	-34.56	-37.60	-40.65
		Mz	-0.69	-0.79	-0.88	-0.98	-1.07	-1.16	-1.26
	TB-450-A1	N	18.501	18.501	18.501	18.501	18.501	18.501	18.501
		Vy	0.386	0.386	0.386	0.386	0.386	0.386	0.386
		Vz	-2.259	-2.259	-2.259	-2.259	-2.259	-2.259	-2.259
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.10	3.53	3.95	4.37	4.80	5.22	5.64
		Mz	-0.53	-0.60	-0.67	-0.75	-0.82	-0.89	-0.96
	TB-450-A2	N	44.090	44.090	44.090	44.090	44.090	44.090	44.090
		Vy	0.531	0.531	0.531	0.531	0.531	0.531	0.531
		Vz	-5.369	-5.369	-5.369	-5.369	-5.369	-5.369	-5.369
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.38	8.38	9.39	10.39	11.40	12.40	13.41
		Mz	-0.73	-0.83	-0.93	-1.03	-1.13	-1.23	-1.33
	TB-450-B1	N	25.145	25.145	25.145	25.145	25.145	25.145	25.145
		Vy	0.615	0.615	0.615	0.615	0.615	0.615	0.615
		Vz	6.186	6.186	6.186	6.186	6.186	6.186	6.186

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.50	-9.66	-10.82	-11.97	-13.13	-14.29	-15.45
		Mz	-0.84	-0.96	-1.08	-1.19	-1.31	-1.42	-1.54
	TB-450-B2	N	50.197	50.197	50.197	50.197	50.197	50.197	50.197
		Vy	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636	-0.636
		Vz	14.519	14.519	14.519	14.519	14.519	14.519	14.519
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-19.95	-22.66	-25.38	-28.10	-30.82	-33.54	-36.26
		Mz	0.87	0.99	1.11	1.23	1.35	1.47	1.59
	TB-450-C1	N	34.586	34.586	34.586	34.586	34.586	34.586	34.586
		Vy	-0.824	-0.824	-0.824	-0.824	-0.824	-0.824	-0.824
		Vz	11.841	11.841	11.841	11.841	11.841	11.841	11.841
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.27	-18.48	-20.70	-22.92	-25.14	-27.36	-29.57
		Mz	1.13	1.29	1.44	1.60	1.75	1.90	2.06
	TB-450-C2	N	20.816	20.816	20.816	20.816	20.816	20.816	20.816
		Vy	1.001	1.001	1.001	1.001	1.001	1.001	1.001
		Vz	5.094	5.094	5.094	5.094	5.094	5.094	5.094
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.00	-7.95	-8.91	-9.86	-10.82	-11.77	-12.72
		Mz	-1.37	-1.56	-1.75	-1.94	-2.12	-2.31	-2.50
	TB-450-D1	N	13.315	13.315	13.315	13.315	13.315	13.315	13.315
		Vy	0.767	0.767	0.767	0.767	0.767	0.767	0.767
		Vz	3.098	3.098	3.098	3.098	3.098	3.098	3.098
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.26	-4.84	-5.42	-6.00	-6.58	-7.16	-7.74
		Mz	-1.05	-1.20	-1.34	-1.48	-1.63	-1.77	-1.92
	TB-450-D2	N	19.836	19.836	19.836	19.836	19.836	19.836	19.836
		Vy	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726	-0.726
		Vz	7.185	7.185	7.185	7.185	7.185	7.185	7.185
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.87	-11.22	-12.56	-13.91	-15.25	-16.60	-17.95
		Mz	1.00	1.13	1.27	1.41	1.54	1.68	1.81
	TB-450-E1	N	4.442	4.442	4.442	4.442	4.442	4.442	4.442

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	0.331	0.331	0.331	0.331	0.331	0.331	0.331
		Vz	0.926	0.926	0.926	0.926	0.926	0.926	0.926
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.27	-1.44	-1.62	-1.79	-1.96	-2.14	-2.31
		Mz	-0.45	-0.52	-0.58	-0.64	-0.70	-0.76	-0.83
	TB-450-E2	N	6.731	6.731	6.731	6.731	6.731	6.731	6.731
		Vy	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278	-0.278
		Vz	2.479	2.479	2.479	2.479	2.479	2.479	2.479
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.41	-3.87	-4.33	-4.80	-5.26	-5.73	-6.19
		Mz	0.38	0.43	0.49	0.54	0.59	0.64	0.70

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N188/N24	Peso próprio	N	108.329	108.368	108.408
		Vy	-0.011	-0.011	-0.011
		Vz	-180.982	-180.534	-180.087
		Mt	0.01	0.01	0.01
		My	-106.70	-84.10	-61.56
		Mz	0.07	0.07	0.07
	Guarda Corpo	N	29.688	29.688	29.688
		Vy	0.088	0.088	0.088
		Vz	-58.967	-58.967	-58.967
		Mt	0.01	0.01	0.01
		My	-31.18	-23.81	-16.43
		Mz	-0.21	-0.22	-0.23
	Laje	N	221.122	221.122	221.122
		Vy	0.785	0.785	0.785
		Vz	-438.026	-438.026	-438.026
		Mt	0.05	0.05	0.05
		My	-231.59	-176.83	-122.08
		Mz	-1.88	-1.97	-2.07

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	121.211	121.211	121.211
		Vy	0.426	0.426	0.426
		Vz	-240.063	-240.063	-240.063
		Mt	0.02	0.02	0.02
		My	-127.12	-97.11	-67.11
		Mz	-1.02	-1.07	-1.12
	Recapeamento	N	54.877	54.877	54.877
		Vy	0.197	0.197	0.197
		Vz	-108.682	-108.682	-108.682
		Mt	0.01	0.01	0.01
		My	-57.47	-43.88	-30.30
		Mz	-0.47	-0.50	-0.52
	Vento 0	N	-15.650	-15.650	-15.650
		Vy	38.553	38.553	38.553
		Vz	21.923	21.923	21.923
		Mt	0.94	0.94	0.94
		My	13.00	10.25	7.51
		Mz	-94.91	-99.73	-104.55
	Vento 180	N	14.928	14.876	14.824
		Vy	-34.282	-34.102	-33.922
		Vz	-21.148	-21.143	-21.139
		Mt	0.33	0.33	0.33
		My	-12.99	-10.35	-7.70
		Mz	94.88	99.16	103.41
	Multidão (Passeio)	N	38.384	38.384	38.384
		Vy	0.087	0.087	0.087
		Vz	-76.488	-76.488	-76.488
		Mt	0.01	0.01	0.01
		My	-40.44	-30.87	-21.31
		Mz	-0.20	-0.21	-0.23
	Multidão - TB450	N	126.473	126.473	126.473
		Vy	0.519	0.519	0.519
		Vz	-249.877	-249.877	-249.877
		Mt	0.03	0.03	0.03

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-132.14	-100.90	-69.67
		Mz	-1.25	-1.31	-1.38
	TB-450-A1	N	24.032	24.032	24.032
		Vy	0.422	0.422	0.422
		Vz	-57.292	-57.292	-57.292
		Mt	0.04	0.04	0.04
		My	-5.52	1.64	8.80
		Mz	-0.94	-0.99	-1.05
	TB-450-A2	N	57.169	57.169	57.169
		Vy	0.536	0.536	0.536
		Vz	-135.628	-135.628	-135.628
		Mt	-0.01	-0.01	-0.01
		My	-12.99	3.96	20.92
		Mz	-1.33	-1.39	-1.46
	TB-450-B1	N	35.638	35.638	35.638
		Vy	0.623	0.623	0.623
		Vz	-61.561	-61.561	-61.561
		Mt	0.03	0.03	0.03
		My	-41.68	-33.98	-26.29
		Mz	-1.52	-1.60	-1.68
	TB-450-B2	N	74.864	74.864	74.864
		Vy	-0.647	-0.647	-0.647
		Vz	-145.157	-145.157	-145.157
		Mt	-0.04	-0.04	-0.04
		My	-98.02	-79.88	-61.73
		Mz	1.57	1.65	1.73
	TB-450-C1	N	53.118	53.118	53.118
		Vy	-0.838	-0.838	-0.838
		Vz	-105.919	-105.919	-105.919
		Mt	-0.05	-0.05	-0.05
		My	-76.29	-63.05	-49.81
		Mz	2.04	2.14	2.25
	TB-450-C2	N	28.777	28.777	28.777
		Vy	1.014	1.014	1.014

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-45.246	-45.246	-45.246
		Mt	0.04	0.04	0.04
		My	-32.72	-27.06	-21.41
		Mz	-2.48	-2.61	-2.73
	TB-450-D1	N	18.127	18.127	18.127
		Vy	0.776	0.776	0.776
		Vz	-27.250	-27.250	-27.250
		Mt	0.03	0.03	0.03
		My	-19.82	-16.41	-13.01
		Mz	-1.90	-2.00	-2.10
	TB-450-D2	N	31.028	31.028	31.028
		Vy	-0.736	-0.736	-0.736
		Vz	-63.883	-63.883	-63.883
		Mt	-0.02	-0.02	-0.02
		My	-46.19	-38.20	-30.22
		Mz	1.80	1.90	1.99
	TB-450-E1	N	5.878	5.878	5.878
		Vy	0.335	0.335	0.335
		Vz	-8.112	-8.112	-8.112
		Mt	0.01	0.01	0.01
		My	-5.91	-4.90	-3.88
		Mz	-0.82	-0.86	-0.90
	TB-450-E2	N	10.592	10.592	10.592
		Vy	-0.280	-0.280	-0.280
		Vz	-22.039	-22.039	-22.039
		Mt	0.00	0.00	0.00
		My	-15.94	-13.18	-10.43
		Mz	0.70	0.73	0.77

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N24/N189	Peso próprio	N	109.396	109.435	109.475

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.018	0.018	0.018
		Vz	-167.744	-167.297	-166.849
		Mt	0.01	0.01	0.01
		My	-61.89	-40.95	-20.07
		Mz	0.07	0.07	0.07
	Guarda Corpo	N	31.099	31.099	31.099
		Vy	-0.081	-0.081	-0.081
		Vz	-43.769	-43.769	-43.769
		Mt	0.01	0.01	0.01
		My	-16.83	-11.36	-5.89
		Mz	-0.23	-0.22	-0.21
	Laje	N	231.992	231.992	231.992
		Vy	-0.763	-0.763	-0.763
		Vz	-325.136	-325.136	-325.136
		Mt	0.05	0.05	0.05
		My	-125.05	-84.41	-43.77
		Mz	-2.03	-1.94	-1.84
	Pavimentação	N	127.160	127.160	127.160
		Vy	-0.417	-0.417	-0.417
		Vz	-178.462	-178.462	-178.462
		Mt	0.03	0.03	0.03
		My	-68.73	-46.42	-24.11
		Mz	-1.10	-1.05	-1.00
	Recapeamento	N	57.580	57.580	57.580
		Vy	-0.192	-0.192	-0.192
		Vz	-80.682	-80.682	-80.682
		Mt	0.01	0.01	0.01
		My	-31.03	-20.95	-10.86
		Mz	-0.51	-0.49	-0.46
	Vento 0	N	6.601	6.601	6.601
		Vy	-36.773	-36.773	-36.773
		Vz	18.373	18.373	18.373
		Mt	1.03	1.03	1.03
		My	7.58	5.29	2.99

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-102.58	-97.98	-93.39
	Vento 180	N	-4.727	-4.779	-4.830
		Vy	32.471	32.651	32.831
		Vz	-17.816	-17.812	-17.807
		Mt	0.25	0.25	0.25
		My	-7.77	-5.54	-3.32
		Mz	101.67	97.60	93.50
	Multidão (Passeio)	N	40.133	40.133	40.133
		Vy	-0.071	-0.071	-0.071
		Vz	-56.765	-56.765	-56.765
		Mt	0.01	0.01	0.01
		My	-21.83	-14.74	-7.64
		Mz	-0.22	-0.21	-0.20
	Multidão - TB450	N	132.886	132.886	132.886
		Vy	-0.524	-0.524	-0.524
		Vz	-185.522	-185.522	-185.522
		Mt	0.03	0.03	0.03
		My	-71.36	-48.17	-24.98
		Mz	-1.35	-1.28	-1.22
	TB-450-A1	N	28.106	28.106	28.106
		Vy	-0.212	-0.212	-0.212
		Vz	-5.763	-5.763	-5.763
		Mt	0.05	0.05	0.05
		My	7.45	8.17	8.89
		Mz	-1.03	-1.00	-0.98
	TB-450-A2	N	67.580	67.580	67.580
		Vy	-0.610	-0.610	-0.610
		Vz	-13.608	-13.608	-13.608
		Mt	0.00	0.00	0.00
		My	17.71	19.41	21.11
		Mz	-1.43	-1.35	-1.28
	TB-450-B1	N	36.725	36.725	36.725
		Vy	-0.737	-0.737	-0.737
		Vz	-61.626	-61.626	-61.626

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.04	0.04	0.04
		My	-26.29	-18.58	-10.88
		Mz	-1.64	-1.55	-1.46
	TB-450-B2	N	75.109	75.109	75.109
		Vy	0.875	0.875	0.875
		Vz	-145.087	-145.087	-145.087
		Mt	-0.04	-0.04	-0.04
		My	-61.74	-43.60	-25.46
		Mz	1.69	1.58	1.47
	TB-450-C1	N	53.265	53.265	53.265
		Vy	0.706	0.706	0.706
		Vz	-105.842	-105.842	-105.842
		Mt	-0.05	-0.05	-0.05
		My	-49.81	-36.58	-23.35
		Mz	2.21	2.12	2.03
	TB-450-C2	N	30.026	30.026	30.026
		Vy	-1.118	-1.118	-1.118
		Vz	-45.343	-45.343	-45.343
		Mt	0.05	0.05	0.05
		My	-21.41	-15.74	-10.07
		Mz	-2.68	-2.54	-2.40
	TB-450-D1	N	18.516	18.516	18.516
		Vy	-0.770	-0.770	-0.770
		Vz	-27.324	-27.324	-27.324
		Mt	0.03	0.03	0.03
		My	-13.01	-9.59	-6.18
		Mz	-2.06	-1.96	-1.86
	TB-450-D2	N	30.536	30.536	30.536
		Vy	0.712	0.712	0.712
		Vz	-63.814	-63.814	-63.814
		Mt	-0.02	-0.02	-0.02
		My	-30.22	-22.24	-14.27
		Mz	1.95	1.86	1.77
	TB-450-E1	N	6.035	6.035	6.035

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.326	-0.326	-0.326
		Vz	-8.143	-8.143	-8.143
		Mt	0.01	0.01	0.01
		My	-3.88	-2.87	-1.85
		Mz	-0.89	-0.85	-0.81
	TB-450-E2	N	10.384	10.384	10.384
		Vy	0.273	0.273	0.273
		Vz	-22.013	-22.013	-22.013
		Mt	0.00	0.00	0.00
		My	-10.43	-7.67	-4.92
		Mz	0.75	0.72	0.68

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N189/N60	Peso próprio	N	143.228	143.287	143.345	143.404	143.463	143.522	143.581
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	-29.426	-28.756	-28.085	-27.414	-26.744	-26.073	-25.403
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-42.53	-37.08	-31.76	-26.56	-21.49	-16.54	-11.72
		Mz	0.07	0.07	0.06	0.06	0.05	0.05	0.05
	Guarda Corpo	N	40.186	40.186	40.186	40.186	40.186	40.186	40.186
		Vy	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080
		Vz	-7.592	-7.592	-7.592	-7.592	-7.592	-7.592	-7.592
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.36	-10.94	-9.52	-8.09	-6.67	-5.25	-3.83
		Mz	-0.21	-0.19	-0.18	-0.16	-0.15	-0.13	-0.12
	Laje	N	299.487	299.487	299.487	299.487	299.487	299.487	299.487
		Vy	-0.757	-0.757	-0.757	-0.757	-0.757	-0.757	-0.757
		Vz	-56.418	-56.418	-56.418	-56.418	-56.418	-56.418	-56.418
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-91.80	-81.24	-70.67	-60.10	-49.54	-38.97	-28.40
		Mz	-1.83	-1.69	-1.55	-1.41	-1.26	-1.12	-0.98

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Pavimentação	N	164.214	164.214	164.214	164.214	164.214	164.214	164.214
		Vy	-0.413	-0.413	-0.413	-0.413	-0.413	-0.413	-0.413
		Vz	-30.933	-30.933	-30.933	-30.933	-30.933	-30.933	-30.933
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-50.47	-44.68	-38.89	-33.09	-27.30	-21.51	-15.71
		Mz	-0.99	-0.92	-0.84	-0.76	-0.68	-0.61	-0.53
	Recapeamento	N	74.329	74.329	74.329	74.329	74.329	74.329	74.329
		Vy	-0.191	-0.191	-0.191	-0.191	-0.191	-0.191	-0.191
		Vz	-13.999	-13.999	-13.999	-13.999	-13.999	-13.999	-13.999
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-22.78	-20.16	-17.54	-14.92	-12.30	-9.67	-7.05
		Mz	-0.46	-0.42	-0.39	-0.35	-0.32	-0.28	-0.25
	Vento 0	N	2.868	2.868	2.868	2.868	2.868	2.868	2.868
		Vy	-36.671	-36.671	-36.671	-36.671	-36.671	-36.671	-36.671
		Vz	3.473	3.473	3.473	3.473	3.473	3.473	3.473
		Mt	0.39	0.39	0.39	0.39	0.39	0.39	0.39
		My	5.59	4.94	4.29	3.64	2.99	2.34	1.69
		Mz	-93.24	-86.37	-79.51	-72.64	-65.77	-58.90	-52.03
	Vento 180	N	-2.014	-2.091	-2.169	-2.246	-2.324	-2.401	-2.479
		Vy	35.443	35.713	35.983	36.253	36.523	36.793	37.063
		Vz	-2.753	-2.746	-2.739	-2.732	-2.726	-2.719	-2.712
		Mt	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
		My	-4.60	-4.09	-3.57	-3.06	-2.55	-2.04	-1.53
		Mz	93.45	86.78	80.07	73.30	66.49	59.62	52.70
	Multidão (Passeio)	N	51.919	51.919	51.919	51.919	51.919	51.919	51.919
		Vy	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
		Vz	-9.842	-9.842	-9.842	-9.842	-9.842	-9.842	-9.842
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.03	-14.19	-12.34	-10.50	-8.66	-6.81	-4.97
		Mz	-0.20	-0.19	-0.18	-0.16	-0.15	-0.14	-0.12
	Multidão - TB450	N	171.396	171.396	171.396	171.396	171.396	171.396	171.396
		Vy	-0.520	-0.520	-0.520	-0.520	-0.520	-0.520	-0.520
		Vz	-32.200	-32.200	-32.200	-32.200	-32.200	-32.200	-32.200
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	-52.39	-46.36	-40.33	-34.30	-28.27	-22.23	-16.20
		Mz	-1.21	-1.11	-1.02	-0.92	-0.82	-0.73	-0.63
	TB-450-A1	N	29.339	29.339	29.339	29.339	29.339	29.339	29.339
		Vy	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208
		Vz	-1.690	-1.690	-1.690	-1.690	-1.690	-1.690	-1.690
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	6.84	7.16	7.48	7.79	8.11	8.43	8.74
		Mz	-0.97	-0.93	-0.89	-0.86	-0.82	-0.78	-0.74
	TB-450-A2	N	70.480	70.480	70.480	70.480	70.480	70.480	70.480
		Vy	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613
		Vz	-4.042	-4.042	-4.042	-4.042	-4.042	-4.042	-4.042
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	16.28	17.03	17.79	18.55	19.30	20.06	20.82
		Mz	-1.28	-1.17	-1.05	-0.94	-0.82	-0.71	-0.59
	TB-450-B1	N	48.905	48.905	48.905	48.905	48.905	48.905	48.905
		Vy	-0.732	-0.732	-0.732	-0.732	-0.732	-0.732	-0.732
		Vz	-12.852	-12.852	-12.852	-12.852	-12.852	-12.852	-12.852
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-19.15	-16.74	-14.33	-11.93	-9.52	-7.11	-4.71
		Mz	-1.45	-1.31	-1.17	-1.04	-0.90	-0.76	-0.63
	TB-450-B2	N	103.790	103.790	103.790	103.790	103.790	103.790	103.790
		Vy	0.873	0.873	0.873	0.873	0.873	0.873	0.873
		Vz	-30.254	-30.254	-30.254	-30.254	-30.254	-30.254	-30.254
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-44.97	-39.31	-33.64	-27.97	-22.31	-16.64	-10.97
		Mz	1.47	1.31	1.14	0.98	0.82	0.65	0.49
	TB-450-C1	N	75.948	75.948	75.948	75.948	75.948	75.948	75.948
		Vy	0.702	0.702	0.702	0.702	0.702	0.702	0.702
		Vz	-14.820	-14.820	-14.820	-14.820	-14.820	-14.820	-14.820
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-38.50	-35.73	-32.95	-30.17	-27.40	-24.62	-21.85
		Mz	2.03	1.89	1.76	1.63	1.50	1.37	1.24
	TB-450-C2	N	39.730	39.730	39.730	39.730	39.730	39.730	39.730
		Vy	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-6.389	-6.389	-6.389	-6.389	-6.389	-6.389	-6.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.53	-15.33	-14.14	-12.94	-11.74	-10.55	-9.35
		Mz	-2.39	-2.18	-1.97	-1.76	-1.56	-1.35	-1.14
	TB-450-D1	N	24.392	24.392	24.392	24.392	24.392	24.392	24.392
		Vy	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767
		Vz	-3.732	-3.732	-3.732	-3.732	-3.732	-3.732	-3.732
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-10.08	-9.38	-8.68	-7.98	-7.29	-6.59	-5.89
		Mz	-1.86	-1.72	-1.57	-1.43	-1.28	-1.14	-1.00
	TB-450-D2	N	44.271	44.271	44.271	44.271	44.271	44.271	44.271
		Vy	0.710	0.710	0.710	0.710	0.710	0.710	0.710
		Vz	-8.696	-8.696	-8.696	-8.696	-8.696	-8.696	-8.696
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-23.44	-21.81	-20.18	-18.55	-16.92	-15.29	-13.66
		Mz	1.77	1.63	1.50	1.37	1.24	1.10	0.97
	TB-450-E1	N	7.786	7.786	7.786	7.786	7.786	7.786	7.786
		Vy	-0.325	-0.325	-0.325	-0.325	-0.325	-0.325	-0.325
		Vz	-1.111	-1.111	-1.111	-1.111	-1.111	-1.111	-1.111
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-3.01	-2.80	-2.59	-2.39	-2.18	-1.97	-1.76
		Mz	-0.80	-0.74	-0.68	-0.62	-0.56	-0.50	-0.44
	TB-450-E2	N	15.123	15.123	15.123	15.123	15.123	15.123	15.123
		Vy	0.273	0.273	0.273	0.273	0.273	0.273	0.273
		Vz	-2.995	-2.995	-2.995	-2.995	-2.995	-2.995	-2.995
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.09	-7.53	-6.97	-6.40	-5.84	-5.28	-4.72
		Mz	0.68	0.63	0.58	0.53	0.48	0.43	0.38

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N60/N190	Peso próprio	N	143.581	143.639	143.698	143.757	143.816	143.875	143.933

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	-25.403	-24.732	-24.062	-23.391	-22.721	-22.050	-21.380
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-11.72	-7.03	-2.46	1.99	6.31	10.50	14.57
		Mz	0.05	0.04	0.04	0.04	0.03	0.03	0.03
	Guarda Corpo	N	40.186	40.186	40.186	40.186	40.186	40.186	40.186
		Vy	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080
		Vz	-7.592	-7.592	-7.592	-7.592	-7.592	-7.592	-7.592
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.83	-2.41	-0.98	0.44	1.86	3.28	4.70
		Mz	-0.12	-0.10	-0.09	-0.07	-0.06	-0.04	-0.02
	Laje	N	299.487	299.487	299.487	299.487	299.487	299.487	299.487
		Vy	-0.757	-0.757	-0.757	-0.757	-0.757	-0.757	-0.757
		Vz	-56.418	-56.418	-56.418	-56.418	-56.418	-56.418	-56.418
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-28.40	-17.84	-7.27	3.30	13.86	24.43	35.00
		Mz	-0.98	-0.84	-0.70	-0.56	-0.41	-0.27	-0.13
	Pavimentação	N	164.214	164.214	164.214	164.214	164.214	164.214	164.214
		Vy	-0.413	-0.413	-0.413	-0.413	-0.413	-0.413	-0.413
		Vz	-30.933	-30.933	-30.933	-30.933	-30.933	-30.933	-30.933
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.71	-9.92	-4.13	1.67	7.46	13.26	19.05
		Mz	-0.53	-0.45	-0.37	-0.30	-0.22	-0.14	-0.06
	Recapeamento	N	74.329	74.329	74.329	74.329	74.329	74.329	74.329
		Vy	-0.191	-0.191	-0.191	-0.191	-0.191	-0.191	-0.191
		Vz	-13.999	-13.999	-13.999	-13.999	-13.999	-13.999	-13.999
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.05	-4.43	-1.81	0.81	3.44	6.06	8.68
		Mz	-0.25	-0.21	-0.17	-0.14	-0.10	-0.07	-0.03
	Vento 0	N	2.868	2.868	2.868	2.868	2.868	2.868	2.868
		Vy	-36.671	-36.671	-36.671	-36.671	-36.671	-36.671	-36.671
		Vz	3.473	3.473	3.473	3.473	3.473	3.473	3.473
		Mt	0.39	0.39	0.39	0.39	0.39	0.39	0.39
		My	1.69	1.04	0.39	-0.26	-0.91	-1.56	-2.21

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-52.03	-45.16	-38.30	-31.43	-24.56	-17.69	-10.82
	Vento 180	N	-2.479	-2.556	-2.634	-2.711	-2.789	-2.866	-2.944
		Vy	37.063	37.333	37.603	37.873	38.143	38.413	38.682
		Vz	-2.712	-2.705	-2.698	-2.692	-2.685	-2.678	-2.671
		Mt	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
		My	-1.53	-1.02	-0.52	-0.01	0.49	0.99	1.49
		Mz	52.70	45.74	38.72	31.65	24.53	17.36	10.14
	Multidão (Passeio)	N	51.919	51.919	51.919	51.919	51.919	51.919	51.919
		Vy	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
		Vz	-9.842	-9.842	-9.842	-9.842	-9.842	-9.842	-9.842
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.97	-3.13	-1.28	0.56	2.40	4.25	6.09
		Mz	-0.12	-0.11	-0.10	-0.08	-0.07	-0.06	-0.04
	Multidão - TB450	N	171.396	171.396	171.396	171.396	171.396	171.396	171.396
		Vy	-0.520	-0.520	-0.520	-0.520	-0.520	-0.520	-0.520
		Vz	-32.200	-32.200	-32.200	-32.200	-32.200	-32.200	-32.200
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.20	-10.17	-4.14	1.89	7.92	13.95	19.98
		Mz	-0.63	-0.53	-0.43	-0.34	-0.24	-0.14	-0.04
	TB-450-A1	N	29.339	29.339	29.339	29.339	29.339	29.339	29.339
		Vy	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208	-0.208
		Vz	-1.690	-1.690	-1.690	-1.690	-1.690	-1.690	-1.690
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	8.74	9.06	9.38	9.69	10.01	10.33	10.64
		Mz	-0.74	-0.70	-0.66	-0.62	-0.58	-0.54	-0.51
	TB-450-A2	N	70.480	70.480	70.480	70.480	70.480	70.480	70.480
		Vy	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613	-0.613
		Vz	-4.042	-4.042	-4.042	-4.042	-4.042	-4.042	-4.042
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	20.82	21.57	22.33	23.09	23.84	24.60	25.36
		Mz	-0.59	-0.48	-0.36	-0.25	-0.13	-0.02	0.10
	TB-450-B1	N	48.905	48.905	48.905	48.905	48.905	48.905	48.905
		Vy	-0.732	-0.732	-0.732	-0.732	-0.732	-0.732	-0.732
		Vz	-12.852	-12.852	-12.852	-12.852	-12.852	-12.852	-12.852

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.71	-2.30	0.11	2.52	4.92	7.33	9.74
		Mz	-0.63	-0.49	-0.35	-0.22	-0.08	0.06	0.20
	TB-450-B2	N	103.790	103.790	103.790	103.790	103.790	103.790	103.790
		Vy	0.873	0.873	0.873	0.873	0.873	0.873	0.873
		Vz	-30.254	-30.254	-30.254	-30.254	-30.254	-30.254	-30.254
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-10.97	-5.31	0.36	6.03	11.69	17.36	23.03
		Mz	0.49	0.33	0.16	0.00	-0.16	-0.33	-0.49
	TB-450-C1	N	75.948	75.948	75.948	75.948	75.948	75.948	75.948
		Vy	0.702	0.702	0.702	0.702	0.702	0.702	0.702
		Vz	-14.820	-14.820	-14.820	-14.820	-14.820	-14.820	-14.820
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-21.85	-19.07	-16.29	-13.52	-10.74	-7.97	-5.19
		Mz	1.24	1.10	0.97	0.84	0.71	0.58	0.45
	TB-450-C2	N	39.730	39.730	39.730	39.730	39.730	39.730	39.730
		Vy	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112	-1.112
		Vz	-6.389	-6.389	-6.389	-6.389	-6.389	-6.389	-6.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.35	-8.15	-6.96	-5.76	-4.56	-3.37	-2.17
		Mz	-1.14	-0.93	-0.72	-0.51	-0.31	-0.10	0.11
	TB-450-D1	N	24.392	24.392	24.392	24.392	24.392	24.392	24.392
		Vy	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767	-0.767
		Vz	-3.732	-3.732	-3.732	-3.732	-3.732	-3.732	-3.732
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-5.89	-5.19	-4.49	-3.79	-3.09	-2.39	-1.69
		Mz	-1.00	-0.85	-0.71	-0.57	-0.42	-0.28	-0.14
	TB-450-D2	N	44.271	44.271	44.271	44.271	44.271	44.271	44.271
		Vy	0.710	0.710	0.710	0.710	0.710	0.710	0.710
		Vz	-8.696	-8.696	-8.696	-8.696	-8.696	-8.696	-8.696
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-13.66	-12.04	-10.41	-8.78	-7.15	-5.52	-3.89
		Mz	0.97	0.84	0.70	0.57	0.44	0.31	0.17
	TB-450-E1	N	7.786	7.786	7.786	7.786	7.786	7.786	7.786

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	-0.325	-0.325	-0.325	-0.325	-0.325	-0.325	-0.325
		Vz	-1.111	-1.111	-1.111	-1.111	-1.111	-1.111	-1.111
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-1.76	-1.55	-1.35	-1.14	-0.93	-0.72	-0.51
		Mz	-0.44	-0.38	-0.32	-0.26	-0.19	-0.13	-0.07
	TB-450-E2	N	15.123	15.123	15.123	15.123	15.123	15.123	15.123
		Vy	0.273	0.273	0.273	0.273	0.273	0.273	0.273
		Vz	-2.995	-2.995	-2.995	-2.995	-2.995	-2.995	-2.995
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.72	-4.16	-3.60	-3.04	-2.48	-1.92	-1.36
		Mz	0.38	0.32	0.27	0.22	0.17	0.12	0.07

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N190/N2	Peso próprio	N	162.488	162.527	162.566
		Vy	0.021	0.021	0.021
		Vz	-158.636	-158.189	-157.741
		Mt	0.02	0.02	0.02
		My	-21.29	-1.49	18.26
		Mz	0.03	0.03	0.02
	Guarda Corpo	N	45.651	45.651	45.651
		Vy	-0.080	-0.080	-0.080
		Vz	-51.382	-51.382	-51.382
		Mt	0.01	0.01	0.01
		My	-5.55	0.88	7.30
		Mz	-0.02	-0.01	0.00
	Laje	N	340.080	340.080	340.080
		Vy	-0.749	-0.749	-0.749
		Vz	-381.672	-381.672	-381.672
		Mt	0.00	0.00	0.00
		My	-41.11	6.59	54.30
		Mz	-0.13	-0.04	0.06

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	186.497	186.497	186.497
		Vy	-0.408	-0.408	-0.408
		Vz	-209.422	-209.422	-209.422
		Mt	0.00	0.00	0.00
		My	-22.74	3.43	29.61
		Mz	-0.06	-0.01	0.04
	Recapeamento	N	84.402	84.402	84.402
		Vy	-0.189	-0.189	-0.189
		Vz	-94.708	-94.708	-94.708
		Mt	0.00	0.00	0.00
		My	-10.21	1.63	13.47
		Mz	-0.03	-0.01	0.02
	Vento 0	N	0.665	0.665	0.665
		Vy	-37.238	-37.238	-37.238
		Vz	20.943	20.943	20.943
		Mt	4.27	4.27	4.27
		My	1.92	-0.70	-3.31
		Mz	-10.61	-5.95	-1.30
	Vento 180	N	-1.449	-1.501	-1.553
		Vy	41.792	41.972	42.152
		Vz	-20.334	-20.329	-20.325
		Mt	-4.16	-4.16	-4.16
		My	-1.77	0.77	3.31
		Mz	9.97	4.74	-0.52
	Multidão (Passeio)	N	59.008	59.008	59.008
		Vy	-0.072	-0.072	-0.072
		Vz	-66.646	-66.646	-66.646
		Mt	0.02	0.02	0.02
		My	-7.20	1.13	9.46
		Mz	-0.04	-0.03	-0.02
	Multidão - TB450	N	194.555	194.555	194.555
		Vy	-0.512	-0.512	-0.512
		Vz	-217.759	-217.759	-217.759
		Mt	-0.02	-0.02	-0.02

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-23.44	3.78	31.00
		Mz	-0.05	0.02	0.08
	TB-450-A1	N	30.709	30.709	30.709
		Vy	-0.231	-0.231	-0.231
		Vz	-16.139	-16.139	-16.139
		Mt	0.18	0.18	0.18
		My	8.95	10.97	12.98
		Mz	-0.50	-0.47	-0.44
	TB-450-A2	N	73.714	73.714	73.714
		Vy	-0.639	-0.639	-0.639
		Vz	-38.216	-38.216	-38.216
		Mt	0.17	0.17	0.17
		My	21.38	26.15	30.93
		Mz	0.10	0.18	0.26
	TB-450-B1	N	55.745	55.745	55.745
		Vy	-0.724	-0.724	-0.724
		Vz	-68.363	-68.363	-68.363
		Mt	-0.03	-0.03	-0.03
		My	-2.96	5.58	14.13
		Mz	0.19	0.29	0.38
	TB-450-B2	N	119.923	119.923	119.923
		Vy	0.905	0.905	0.905
		Vz	-161.315	-161.315	-161.315
		Mt	-0.23	-0.23	-0.23
		My	-6.89	13.27	33.44
		Mz	-0.50	-0.61	-0.73
	TB-450-C1	N	89.378	89.378	89.378
		Vy	0.736	0.736	0.736
		Vz	-117.058	-117.058	-117.058
		Mt	-0.24	-0.24	-0.24
		My	-31.65	-17.02	-2.39
		Mz	0.44	0.34	0.25
	TB-450-C2	N	45.457	45.457	45.457
		Vy	-1.108	-1.108	-1.108

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-49.914	-49.914	-49.914
		Mt	0.01	0.01	0.01
		My	-13.47	-7.23	-0.99
		Mz	0.11	0.25	0.39
	TB-450-D1	N	27.872	27.872	27.872
		Vy	-0.780	-0.780	-0.780
		Vz	-30.128	-30.128	-30.128
		Mt	0.11	0.11	0.11
		My	-8.58	-4.81	-1.05
		Mz	-0.13	-0.03	0.07
	TB-450-D2	N	52.439	52.439	52.439
		Vy	0.721	0.721	0.721
		Vz	-70.806	-70.806	-70.806
		Mt	-0.08	-0.08	-0.08
		My	-20.01	-11.16	-2.31
		Mz	0.17	0.08	-0.01
	TB-450-E1	N	8.822	8.822	8.822
		Vy	-0.331	-0.331	-0.331
		Vz	-8.963	-8.963	-8.963
		Mt	0.05	0.05	0.05
		My	-2.56	-1.44	-0.32
		Mz	-0.07	-0.03	0.01
	TB-450-E2	N	17.942	17.942	17.942
		Vy	0.276	0.276	0.276
		Vz	-24.433	-24.433	-24.433
		Mt	-0.02	-0.02	-0.02
		My	-6.92	-3.87	-0.81
		Mz	0.07	0.03	0.00

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N2/N191	Peso próprio	N	163.409	163.448	163.487

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.286	0.286	0.286
		Vz	-145.044	-144.597	-144.149
		Mt	-0.03	-0.03	-0.03
		My	17.95	36.06	54.10
		Mz	0.01	-0.03	-0.06
	Guarda Corpo	N	46.947	46.947	46.947
		Vy	0.087	0.087	0.087
		Vz	-36.173	-36.173	-36.173
		Mt	0.00	0.00	0.00
		My	6.91	11.43	15.95
		Mz	-0.01	-0.02	-0.03
	Laje	N	350.183	350.183	350.183
		Vy	1.010	1.010	1.010
		Vz	-268.679	-268.679	-268.679
		Mt	0.01	0.01	0.01
		My	51.32	84.91	118.49
		Mz	0.01	-0.11	-0.24
	Pavimentação	N	192.048	192.048	192.048
		Vy	0.577	0.577	0.577
		Vz	-147.763	-147.763	-147.763
		Mt	0.01	0.01	0.01
		My	27.98	46.45	64.92
		Mz	0.01	-0.06	-0.13
	Recapeamento	N	86.917	86.917	86.917
		Vy	0.258	0.258	0.258
		Vz	-66.682	-66.682	-66.682
		Mt	0.00	0.00	0.00
		My	12.73	21.06	29.40
		Mz	0.00	-0.03	-0.06
	Vento 0	N	-40.595	-40.595	-40.595
		Vy	-7.620	-7.620	-7.620
		Vz	20.917	20.917	20.917
		Mt	-4.37	-4.37	-4.37
		My	3.46	0.85	-1.77

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-3.75	-2.80	-1.84
	Vento 180	N	42.749	42.697	42.646
		Vy	2.821	3.002	3.182
		Vz	-20.544	-20.539	-20.535
		Mt	4.53	4.53	4.53
		My	-3.49	-0.92	1.65
		Mz	2.19	1.83	1.44
	Multidão (Passeio)	N	60.590	60.590	60.590
		Vy	0.035	0.035	0.035
		Vz	-46.913	-46.913	-46.913
		Mt	-0.01	-0.01	-0.01
		My	8.96	14.83	20.69
		Mz	-0.03	-0.04	-0.04
	Multidão - TB450	N	200.578	200.578	200.578
		Vy	0.779	0.779	0.779
		Vz	-153.332	-153.332	-153.332
		Mt	0.02	0.02	0.02
		My	29.26	48.43	67.60
		Mz	0.06	-0.04	-0.14
	TB-450-A1	N	31.501	31.501	31.501
		Vy	-0.054	-0.054	-0.054
		Vz	9.634	9.634	9.634
		Mt	-0.12	-0.12	-0.12
		My	12.54	11.34	10.13
		Mz	-0.50	-0.49	-0.49
	TB-450-A2	N	77.268	77.268	77.268
		Vy	-0.105	-0.105	-0.105
		Vz	22.821	22.821	22.821
		Mt	-0.19	-0.19	-0.19
		My	29.61	26.76	23.90
		Mz	0.18	0.19	0.21
	TB-450-B1	N	58.531	58.531	58.531
		Vy	-0.081	-0.081	-0.081
		Vz	-42.577	-42.577	-42.577

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.06	0.06	0.06
		My	13.38	18.71	24.03
		Mz	0.38	0.39	0.40
	TB-450-B2	N	127.491	127.491	127.491
		Vy	-0.064	-0.064	-0.064
		Vz	-100.288	-100.288	-100.288
		Mt	0.18	0.18	0.18
		My	31.51	44.04	56.58
		Mz	-0.62	-0.62	-0.61
	TB-450-C1	N	91.504	91.504	91.504
		Vy	1.122	1.122	1.122
		Vz	-117.026	-117.026	-117.026
		Mt	0.18	0.18	0.18
		My	-2.72	11.91	26.54
		Mz	0.32	0.18	0.04
	TB-450-C2	N	45.486	45.486	45.486
		Vy	1.093	1.093	1.093
		Vz	-49.877	-49.877	-49.877
		Mt	0.00	0.00	0.00
		My	-0.99	5.25	11.48
		Mz	0.33	0.19	0.06
	TB-450-D1	N	26.820	26.820	26.820
		Vy	-0.014	-0.014	-0.014
		Vz	-30.126	-30.126	-30.126
		Mt	-0.10	-0.10	-0.10
		My	-0.88	2.88	6.65
		Mz	0.01	0.01	0.01
	TB-450-D2	N	53.155	53.155	53.155
		Vy	-0.010	-0.010	-0.010
		Vz	-70.809	-70.809	-70.809
		Mt	0.07	0.07	0.07
		My	-2.43	6.42	15.27
		Mz	0.04	0.04	0.04
	TB-450-E1	N	8.339	8.339	8.339

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.002	-0.002	-0.002
		Vz	-8.961	-8.961	-8.961
		Mt	-0.04	-0.04	-0.04
		My	-0.25	0.87	1.99
		Mz	-0.01	-0.01	-0.01
	TB-450-E2	N	18.154	18.154	18.154
		Vy	0.035	0.035	0.035
		Vz	-24.431	-24.431	-24.431
		Mt	0.03	0.03	0.03
		My	-0.85	2.20	5.26
		Mz	0.01	0.01	0.01

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N191/N61	Peso próprio	N	202.840	202.898	202.957	203.016	203.075	203.134	203.192
		Vy	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Vz	-11.748	-11.078	-10.407	-9.737	-9.066	-8.396	-7.725
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	15.86	18.00	20.01	21.90	23.66	25.29	26.80
		Mz	-0.07	-0.12	-0.17	-0.22	-0.28	-0.33	-0.38
	Guarda Corpo	N	57.426	57.426	57.426	57.426	57.426	57.426	57.426
		Vy	0.086	0.086	0.086	0.086	0.086	0.086	0.086
		Vz	-2.244	-2.244	-2.244	-2.244	-2.244	-2.244	-2.244
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.08	5.50	5.92	6.34	6.76	7.18	7.60
		Mz	-0.03	-0.05	-0.06	-0.08	-0.10	-0.11	-0.13
	Laje	N	428.001	428.001	428.001	428.001	428.001	428.001	428.001
		Vy	1.010	1.010	1.010	1.010	1.010	1.010	1.010
		Vz	-16.697	-16.697	-16.697	-16.697	-16.697	-16.697	-16.697
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	37.72	40.85	43.98	47.11	50.23	53.36	56.49
		Mz	-0.23	-0.42	-0.61	-0.80	-0.99	-1.18	-1.37

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Pavimentação	N	234.839	234.839	234.839	234.839	234.839	234.839	234.839
		Vy	0.577	0.577	0.577	0.577	0.577	0.577	0.577
		Vz	-9.179	-9.179	-9.179	-9.179	-9.179	-9.179	-9.179
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	20.53	22.25	23.97	25.69	27.41	29.12	30.84
		Mz	-0.12	-0.23	-0.34	-0.45	-0.56	-0.67	-0.77
	Recapeamento	N	106.229	106.229	106.229	106.229	106.229	106.229	106.229
		Vy	0.258	0.258	0.258	0.258	0.258	0.258	0.258
		Vz	-4.144	-4.144	-4.144	-4.144	-4.144	-4.144	-4.144
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	9.36	10.13	10.91	11.68	12.46	13.24	14.01
		Mz	-0.06	-0.11	-0.15	-0.20	-0.25	-0.30	-0.35
	Vento 0	N	-45.992	-45.992	-45.992	-45.992	-45.992	-45.992	-45.992
		Vy	-8.255	-8.255	-8.255	-8.255	-8.255	-8.255	-8.255
		Vz	2.806	2.806	2.806	2.806	2.806	2.806	2.806
		Mt	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
		My	3.26	2.74	2.21	1.69	1.16	0.64	0.11
		Mz	-2.78	-1.24	0.31	1.86	3.40	4.95	6.49
	Vento 180	N	47.333	47.256	47.178	47.101	47.023	46.946	46.868
		Vy	6.439	6.709	6.979	7.249	7.519	7.789	8.059
		Vz	-2.159	-2.153	-2.146	-2.139	-2.132	-2.125	-2.119
		Mt	0.14	0.14	0.14	0.14	0.14	0.14	0.14
		My	-2.45	-2.05	-1.65	-1.25	-0.85	-0.45	-0.05
		Mz	2.24	1.01	-0.27	-1.60	-2.98	-4.42	-5.90
	Multidão (Passeio)	N	74.181	74.181	74.181	74.181	74.181	74.181	74.181
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-2.904	-2.904	-2.904	-2.904	-2.904	-2.904	-2.904
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.58	7.13	7.67	8.21	8.76	9.30	9.85
		Mz	-0.04	-0.05	-0.06	-0.06	-0.07	-0.08	-0.08
	Multidão - TB450	N	244.981	244.981	244.981	244.981	244.981	244.981	244.981
		Vy	0.782	0.782	0.782	0.782	0.782	0.782	0.782
		Vz	-9.544	-9.544	-9.544	-9.544	-9.544	-9.544	-9.544
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	21.51	23.30	25.09	26.88	28.66	30.45	32.24
		Mz	-0.13	-0.27	-0.42	-0.57	-0.71	-0.86	-1.00
	TB-450-A1	N	29.989	29.989	29.989	29.989	29.989	29.989	29.989
		Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vz	3.412	3.412	3.412	3.412	3.412	3.412	3.412
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.63	9.99	9.35	8.71	8.07	7.43	6.80
		Mz	-0.51	-0.50	-0.49	-0.47	-0.46	-0.44	-0.43
	TB-450-A2	N	73.659	73.659	73.659	73.659	73.659	73.659	73.659
		Vy	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132
		Vz	8.003	8.003	8.003	8.003	8.003	8.003	8.003
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	25.11	23.62	22.12	20.62	19.12	17.62	16.12
		Mz	0.17	0.19	0.22	0.24	0.27	0.29	0.31
	TB-450-B1	N	69.880	69.880	69.880	69.880	69.880	69.880	69.880
		Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
		Vz	-6.372	-6.372	-6.372	-6.372	-6.372	-6.372	-6.372
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	11.68	12.87	14.07	15.26	16.45	17.65	18.84
		Mz	0.41	0.42	0.44	0.45	0.46	0.48	0.49
	TB-450-B2	N	154.206	154.206	154.206	154.206	154.206	154.206	154.206
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-15.077	-15.077	-15.077	-15.077	-15.077	-15.077	-15.077
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.50	30.32	33.14	35.97	38.79	41.62	44.44
		Mz	-0.57	-0.56	-0.56	-0.55	-0.54	-0.54	-0.53
	TB-450-C1	N	124.782	124.782	124.782	124.782	124.782	124.782	124.782
		Vy	1.150	1.150	1.150	1.150	1.150	1.150	1.150
		Vz	-6.811	-6.811	-6.811	-6.811	-6.811	-6.811	-6.811
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-5.86	-4.58	-3.31	-2.03	-0.76	0.52	1.79
		Mz	0.08	-0.13	-0.35	-0.56	-0.78	-0.99	-1.21
	TB-450-C2	N	59.675	59.675	59.675	59.675	59.675	59.675	59.675
		Vy	1.092	1.092	1.092	1.092	1.092	1.092	1.092

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-2.883	-2.883	-2.883	-2.883	-2.883	-2.883	-2.883
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-2.33	-1.79	-1.25	-0.71	-0.17	0.37	0.91
		Mz	0.06	-0.14	-0.35	-0.55	-0.76	-0.96	-1.17
	TB-450-D1	N	35.532	35.532	35.532	35.532	35.532	35.532	35.532
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.85	-1.60	-1.36	-1.12	-0.87	-0.63	-0.39
		Mz	-0.01	-0.01	0.00	0.00	0.01	0.02	0.02
	TB-450-D2	N	73.591	73.591	73.591	73.591	73.591	73.591	73.591
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-3.175	-3.175	-3.175	-3.175	-3.175	-3.175	-3.175
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.64	-4.04	-3.45	-2.85	-2.26	-1.66	-1.07
		Mz	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	TB-450-E1	N	10.934	10.934	10.934	10.934	10.934	10.934	10.934
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.373	-0.373	-0.373	-0.373	-0.373	-0.373	-0.373
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.54	-0.47	-0.40	-0.33	-0.26	-0.19	-0.12
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01
	TB-450-E2	N	25.211	25.211	25.211	25.211	25.211	25.211	25.211
		Vy	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Vz	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.62	-1.42	-1.22	-1.01	-0.81	-0.61	-0.41
		Mz	0.01	0.01	0.00	-0.01	-0.02	-0.02	-0.03

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N61/N192	Peso próprio	N	203.192	203.251	203.310	203.369	203.428	203.486	203.545

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Vz	-7.725	-7.055	-6.384	-5.714	-5.043	-4.372	-3.702
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.80	28.19	29.44	30.58	31.58	32.47	33.22
		Mz	-0.38	-0.43	-0.48	-0.53	-0.59	-0.64	-0.69
	Guarda Corpo	N	57.426	57.426	57.426	57.426	57.426	57.426	57.426
		Vy	0.086	0.086	0.086	0.086	0.086	0.086	0.086
		Vz	-2.244	-2.244	-2.244	-2.244	-2.244	-2.244	-2.244
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.60	8.02	8.44	8.86	9.28	9.70	10.12
		Mz	-0.13	-0.15	-0.16	-0.18	-0.19	-0.21	-0.23
	Laje	N	428.001	428.001	428.001	428.001	428.001	428.001	428.001
		Vy	1.010	1.010	1.010	1.010	1.010	1.010	1.010
		Vz	-16.697	-16.697	-16.697	-16.697	-16.697	-16.697	-16.697
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	56.49	59.62	62.74	65.87	69.00	72.12	75.25
		Mz	-1.37	-1.55	-1.74	-1.93	-2.12	-2.31	-2.50
	Pavimentação	N	234.839	234.839	234.839	234.839	234.839	234.839	234.839
		Vy	0.577	0.577	0.577	0.577	0.577	0.577	0.577
		Vz	-9.179	-9.179	-9.179	-9.179	-9.179	-9.179	-9.179
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	30.84	32.56	34.28	36.00	37.72	39.44	41.16
		Mz	-0.77	-0.88	-0.99	-1.10	-1.21	-1.31	-1.42
	Recapeamento	N	106.229	106.229	106.229	106.229	106.229	106.229	106.229
		Vy	0.258	0.258	0.258	0.258	0.258	0.258	0.258
		Vz	-4.144	-4.144	-4.144	-4.144	-4.144	-4.144	-4.144
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	14.01	14.79	15.56	16.34	17.12	17.89	18.67
		Mz	-0.35	-0.39	-0.44	-0.49	-0.54	-0.59	-0.64
	Vento 0	N	-45.992	-45.992	-45.992	-45.992	-45.992	-45.992	-45.992
		Vy	-8.255	-8.255	-8.255	-8.255	-8.255	-8.255	-8.255
		Vz	2.806	2.806	2.806	2.806	2.806	2.806	2.806
		Mt	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
		My	0.11	-0.41	-0.94	-1.47	-1.99	-2.52	-3.04

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	6.49	8.04	9.59	11.13	12.68	14.22	15.77
	Vento 180	N	46.868	46.791	46.713	46.636	46.558	46.480	46.403
		Vy	8.059	8.329	8.599	8.869	9.138	9.408	9.678
		Vz	-2.119	-2.112	-2.105	-2.098	-2.091	-2.085	-2.078
		Mt	0.14	0.14	0.14	0.14	0.14	0.14	0.14
		My	-0.05	0.35	0.74	1.13	1.53	1.92	2.31
		Mz	-5.90	-7.44	-9.02	-10.66	-12.34	-14.08	-15.87
	Multidão (Passeio)	N	74.181	74.181	74.181	74.181	74.181	74.181	74.181
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-2.904	-2.904	-2.904	-2.904	-2.904	-2.904	-2.904
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.85	10.39	10.93	11.48	12.02	12.56	13.11
		Mz	-0.08	-0.09	-0.09	-0.10	-0.11	-0.11	-0.12
	Multidão - TB450	N	244.981	244.981	244.981	244.981	244.981	244.981	244.981
		Vy	0.782	0.782	0.782	0.782	0.782	0.782	0.782
		Vz	-9.544	-9.544	-9.544	-9.544	-9.544	-9.544	-9.544
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	32.24	34.03	35.81	37.60	39.39	41.18	42.96
		Mz	-1.00	-1.15	-1.30	-1.44	-1.59	-1.74	-1.88
	TB-450-A1	N	29.989	29.989	29.989	29.989	29.989	29.989	29.989
		Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vz	3.412	3.412	3.412	3.412	3.412	3.412	3.412
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.80	6.16	5.52	4.88	4.24	3.60	2.96
		Mz	-0.43	-0.42	-0.40	-0.39	-0.38	-0.36	-0.35
	TB-450-A2	N	73.659	73.659	73.659	73.659	73.659	73.659	73.659
		Vy	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132
		Vz	8.003	8.003	8.003	8.003	8.003	8.003	8.003
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	16.12	14.62	13.12	11.62	10.12	8.63	7.13
		Mz	0.31	0.34	0.36	0.39	0.41	0.44	0.46
	TB-450-B1	N	69.880	69.880	69.880	69.880	69.880	69.880	69.880
		Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
		Vz	-6.372	-6.372	-6.372	-6.372	-6.372	-6.372	-6.372

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	18.84	20.03	21.23	22.42	23.61	24.81	26.00
		Mz	0.49	0.51	0.52	0.53	0.55	0.56	0.58
	TB-450-B2	N	154.206	154.206	154.206	154.206	154.206	154.206	154.206
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	-15.077	-15.077	-15.077	-15.077	-15.077	-15.077	-15.077
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	44.44	47.26	50.09	52.91	55.74	58.56	61.38
		Mz	-0.53	-0.52	-0.52	-0.51	-0.50	-0.50	-0.49
	TB-450-C1	N	124.782	124.782	124.782	124.782	124.782	124.782	124.782
		Vy	1.150	1.150	1.150	1.150	1.150	1.150	1.150
		Vz	-6.811	-6.811	-6.811	-6.811	-6.811	-6.811	-6.811
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	1.79	3.07	4.35	5.62	6.90	8.17	9.45
		Mz	-1.21	-1.42	-1.64	-1.85	-2.07	-2.28	-2.50
	TB-450-C2	N	59.675	59.675	59.675	59.675	59.675	59.675	59.675
		Vy	1.092	1.092	1.092	1.092	1.092	1.092	1.092
		Vz	-2.883	-2.883	-2.883	-2.883	-2.883	-2.883	-2.883
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	0.91	1.45	1.99	2.53	3.07	3.61	4.15
		Mz	-1.17	-1.37	-1.57	-1.78	-1.98	-2.19	-2.39
	TB-450-D1	N	35.532	35.532	35.532	35.532	35.532	35.532	35.532
		Vy	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029	-0.029
		Vz	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299	-1.299
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.39	-0.14	0.10	0.34	0.59	0.83	1.07
		Mz	0.02	0.03	0.03	0.04	0.04	0.05	0.05
	TB-450-D2	N	73.591	73.591	73.591	73.591	73.591	73.591	73.591
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-3.175	-3.175	-3.175	-3.175	-3.175	-3.175	-3.175
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.07	-0.47	0.12	0.72	1.31	1.90	2.50
		Mz	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	TB-450-E1	N	10.934	10.934	10.934	10.934	10.934	10.934	10.934

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	-0.373	-0.373	-0.373	-0.373	-0.373	-0.373	-0.373
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.12	-0.05	0.02	0.09	0.16	0.23	0.30
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.00
	TB-450-E2	N	25.211	25.211	25.211	25.211	25.211	25.211	25.211
		Vy	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Vz	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074	-1.074
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.41	-0.21	-0.01	0.19	0.39	0.60	0.80
		Mz	-0.03	-0.04	-0.05	-0.05	-0.06	-0.07	-0.07

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N192/N25	Peso próprio	N	218.267	218.306	218.346
		Vy	0.277	0.277	0.277
		Vz	-111.332	-110.885	-110.437
		Mt	-0.03	-0.03	-0.03
		My	5.07	18.96	32.79
		Mz	-0.69	-0.73	-0.76
	Guarda Corpo	N	61.740	61.740	61.740
		Vy	0.089	0.089	0.089
		Vz	-37.129	-37.129	-37.129
		Mt	-0.02	-0.02	-0.02
		My	2.19	6.83	11.48
		Mz	-0.23	-0.24	-0.25
	Laje	N	460.035	460.035	460.035
		Vy	1.053	1.053	1.053
		Vz	-275.710	-275.710	-275.710
		Mt	-0.31	-0.31	-0.31
		My	16.41	50.87	85.34
		Mz	-2.52	-2.65	-2.78

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	252.459	252.459	252.459
		Vy	0.602	0.602	0.602
		Vz	-151.581	-151.581	-151.581
		Mt	-0.18	-0.18	-0.18
		My	8.78	27.73	46.67
		Mz	-1.43	-1.51	-1.58
	Recapeamento	N	114.180	114.180	114.180
		Vy	0.269	0.269	0.269
		Vz	-68.423	-68.423	-68.423
		Mt	-0.08	-0.08	-0.08
		My	4.07	12.62	21.17
		Mz	-0.64	-0.67	-0.71
	Vento 0	N	-48.269	-48.269	-48.269
		Vy	-8.722	-8.722	-8.722
		Vz	20.043	20.043	20.043
		Mt	3.01	3.01	3.01
		My	1.39	-1.12	-3.62
		Mz	15.95	17.04	18.13
	Vento 180	N	47.949	47.897	47.846
		Vy	12.679	12.859	13.040
		Vz	-19.351	-19.347	-19.342
		Mt	-2.98	-2.98	-2.98
		My	-1.22	1.20	3.62
		Mz	-16.00	-17.59	-19.21
	Multidão (Passeio)	N	79.779	79.779	79.779
		Vy	0.034	0.034	0.034
		Vz	-48.170	-48.170	-48.170
		Mt	0.00	0.00	0.00
		My	2.83	8.85	14.87
		Mz	-0.12	-0.12	-0.13
	Multidão - TB450	N	263.257	263.257	263.257
		Vy	0.817	0.817	0.817
		Vz	-157.297	-157.297	-157.297
		Mt	-0.25	-0.25	-0.25

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	9.39	29.06	48.72
		Mz	-1.90	-2.00	-2.10
	TB-450-A1	N	29.194	29.194	29.194
		Vy	-0.089	-0.089	-0.089
		Vz	9.392	9.392	9.392
		Mt	0.10	0.10	0.10
		My	4.66	3.48	2.31
		Mz	-0.34	-0.33	-0.32
	TB-450-A2	N	71.764	71.764	71.764
		Vy	-0.148	-0.148	-0.148
		Vz	22.254	22.254	22.254
		Mt	0.09	0.09	0.09
		My	11.17	8.39	5.61
		Mz	0.47	0.49	0.51
	TB-450-B1	N	74.161	74.161	74.161
		Vy	-0.071	-0.071	-0.071
		Vz	-45.902	-45.902	-45.902
		Mt	-0.01	-0.01	-0.01
		My	19.24	24.97	30.71
		Mz	0.58	0.58	0.59
	TB-450-B2	N	164.274	164.274	164.274
		Vy	-0.018	-0.018	-0.018
		Vz	-108.187	-108.187	-108.187
		Mt	-0.12	-0.12	-0.12
		My	45.50	59.03	72.55
		Mz	-0.50	-0.49	-0.49
	TB-450-C1	N	139.047	139.047	139.047
		Vy	1.209	1.209	1.209
		Vz	-115.444	-115.444	-115.444
		Mt	-0.42	-0.42	-0.42
		My	-18.38	-3.95	10.48
		Mz	-2.52	-2.67	-2.82
	TB-450-C2	N	65.748	65.748	65.748
		Vy	1.133	1.133	1.133

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-49.087	-49.087	-49.087
		Mt	-0.30	-0.30	-0.30
		My	-7.71	-1.57	4.56
		Mz	-2.41	-2.55	-2.69
	TB-450-D1	N	39.361	39.361	39.361
		Vy	-0.038	-0.038	-0.038
		Vz	-30.351	-30.351	-30.351
		Mt	0.06	0.06	0.06
		My	-6.45	-2.65	1.14
		Mz	0.06	0.06	0.07
	TB-450-D2	N	82.573	82.573	82.573
		Vy	0.006	0.006	0.006
		Vz	-71.364	-71.364	-71.364
		Mt	-0.03	-0.03	-0.03
		My	-15.13	-6.21	2.71
		Mz	0.05	0.05	0.05
	TB-450-E1	N	12.076	12.076	12.076
		Vy	-0.012	-0.012	-0.012
		Vz	-9.030	-9.030	-9.030
		Mt	0.02	0.02	0.02
		My	-1.95	-0.82	0.31
		Mz	0.00	0.00	0.00
	TB-450-E2	N	28.316	28.316	28.316
		Vy	0.041	0.041	0.041
		Vz	-24.632	-24.632	-24.632
		Mt	-0.02	-0.02	-0.02
		My	-5.30	-2.22	0.86
		Mz	-0.07	-0.08	-0.09

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N25/N193	Peso próprio	N	219.736	219.775	219.815

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-1.397	-1.397	-1.397
		Vz	-97.790	-97.343	-96.895
		Mt	-0.07	-0.07	-0.07
		My	32.47	44.67	56.81
		Mz	-0.72	-0.55	-0.37
	Guarda Corpo	N	63.322	63.322	63.322
		Vy	-0.525	-0.525	-0.525
		Vz	-21.944	-21.944	-21.944
		Mt	-0.01	-0.01	-0.01
		My	11.07	13.81	16.56
		Mz	-0.23	-0.17	-0.10
	Laje	N	473.167	473.167	473.167
		Vy	-6.119	-6.119	-6.119
		Vz	-162.987	-162.987	-162.987
		Mt	-0.13	-0.13	-0.13
		My	82.24	102.61	122.98
		Mz	-2.56	-1.79	-1.03
	Pavimentação	N	259.721	259.721	259.721
		Vy	-3.497	-3.497	-3.497
		Vz	-90.077	-90.077	-90.077
		Mt	-0.08	-0.08	-0.08
		My	44.98	56.24	67.49
		Mz	-1.45	-1.02	-0.58
	Recapeamento	N	117.463	117.463	117.463
		Vy	-1.561	-1.561	-1.561
		Vz	-40.466	-40.466	-40.466
		Mt	-0.03	-0.03	-0.03
		My	20.40	25.46	30.52
		Mz	-0.65	-0.46	-0.26
	Vento 0	N	-67.640	-67.640	-67.640
		Vy	5.746	5.746	5.746
		Vz	19.743	19.743	19.743
		Mt	-1.08	-1.08	-1.08
		My	-0.41	-2.87	-5.34

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	16.95	16.24	15.52
	Vento 180	N	69.817	69.766	69.714
		Vy	-9.734	-9.554	-9.374
		Vz	-19.261	-19.256	-19.251
		Mt	1.16	1.16	1.16
		My	0.37	2.78	5.18
		Mz	-17.81	-16.61	-15.42
	Multidão (Passeio)	N	81.539	81.539	81.539
		Vy	-0.211	-0.211	-0.211
		Vz	-28.448	-28.448	-28.448
		Mt	-0.01	-0.01	-0.01
		My	14.36	17.91	21.47
		Mz	-0.12	-0.10	-0.07
	Multidão - TB450	N	271.512	271.512	271.512
		Vy	-4.724	-4.724	-4.724
		Vz	-93.077	-93.077	-93.077
		Mt	-0.09	-0.09	-0.09
		My	46.91	58.54	70.17
		Mz	-1.93	-1.33	-0.74
	TB-450-A1	N	28.683	28.683	28.683
		Vy	-0.113	-0.113	-0.113
		Vz	9.376	9.376	9.376
		Mt	-0.05	-0.05	-0.05
		My	2.43	1.26	0.09
		Mz	-0.35	-0.34	-0.32
	TB-450-A2	N	71.083	71.083	71.083
		Vy	0.192	0.192	0.192
		Vz	22.253	22.253	22.253
		Mt	-0.08	-0.08	-0.08
		My	5.74	2.96	0.18
		Mz	0.46	0.44	0.42
	TB-450-B1	N	78.781	78.781	78.781
		Vy	0.882	0.882	0.882
		Vz	5.683	5.683	5.683

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.07	0.07	0.07
		My	29.30	28.58	27.87
		Mz	0.58	0.47	0.36
	TB-450-B2	N	175.967	175.967	175.967
		Vy	-0.394	-0.394	-0.394
		Vz	13.878	13.878	13.878
		Mt	0.09	0.09	0.09
		My	69.17	67.44	65.70
		Mz	-0.44	-0.39	-0.34
	TB-450-C1	N	143.194	143.194	143.194
		Vy	-7.005	-7.005	-7.005
		Vz	-115.689	-115.689	-115.689
		Mt	-0.06	-0.06	-0.06
		My	10.20	24.66	39.13
		Mz	-2.54	-1.67	-0.79
	TB-450-C2	N	68.770	68.770	68.770
		Vy	-5.908	-5.908	-5.908
		Vz	-49.314	-49.314	-49.314
		Mt	-0.14	-0.14	-0.14
		My	4.45	10.62	16.78
		Mz	-2.48	-1.74	-1.00
	TB-450-D1	N	38.887	38.887	38.887
		Vy	0.113	0.113	0.113
		Vz	-30.362	-30.362	-30.362
		Mt	-0.05	-0.05	-0.05
		My	1.23	5.02	8.82
		Mz	0.04	0.03	0.01
	TB-450-D2	N	82.787	82.787	82.787
		Vy	0.059	0.059	0.059
		Vz	-71.347	-71.347	-71.347
		Mt	0.03	0.03	0.03
		My	2.66	11.58	20.50
		Mz	0.06	0.05	0.05
	TB-450-E1	N	11.806	11.806	11.806

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.153	0.153	0.153
		Vz	-9.031	-9.031	-9.031
		Mt	-0.03	-0.03	-0.03
		My	0.35	1.48	2.61
		Mz	-0.01	-0.03	-0.05
	TB-450-E2	N	28.335	28.335	28.335
		Vy	0.125	0.125	0.125
		Vz	-24.621	-24.621	-24.621
		Mt	0.01	0.01	0.01
		My	0.84	3.92	6.99
		Mz	-0.08	-0.10	-0.11

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N193/N62	Peso próprio	N	245.906	245.965	246.024	246.082	246.141	246.200	246.259
		Vy	-1.387	-1.387	-1.387	-1.387	-1.387	-1.387	-1.387
		Vz	-8.986	-8.316	-7.645	-6.974	-6.304	-5.633	-4.963
		Mt	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
		My	30.70	32.32	33.81	35.18	36.43	37.54	38.54
		Mz	-0.34	-0.08	0.18	0.44	0.70	0.96	1.22
	Guarda Corpo	N	69.837	69.837	69.837	69.837	69.837	69.837	69.837
		Vy	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522
		Vz	-1.289	-1.289	-1.289	-1.289	-1.289	-1.289	-1.289
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	9.33	9.57	9.81	10.05	10.29	10.53	10.78
		Mz	-0.09	0.01	0.11	0.20	0.30	0.40	0.50
	Laje	N	521.489	521.489	521.489	521.489	521.489	521.489	521.489
		Vy	-6.082	-6.082	-6.082	-6.082	-6.082	-6.082	-6.082
		Vz	-9.773	-9.773	-9.773	-9.773	-9.773	-9.773	-9.773
		Mt	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67
		My	69.36	71.19	73.02	74.85	76.69	78.52	80.35
		Mz	-0.91	0.23	1.37	2.51	3.65	4.79	5.93

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Pavimentação	N	286.386	286.386	286.386	286.386	286.386	286.386	286.386
		Vy	-3.476	-3.476	-3.476	-3.476	-3.476	-3.476	-3.476
		Vz	-5.491	-5.491	-5.491	-5.491	-5.491	-5.491	-5.491
		Mt	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38
		My	37.94	38.97	39.99	41.02	42.05	43.08	44.11
		Mz	-0.51	0.14	0.79	1.44	2.09	2.74	3.40
	Recapeamento	N	129.458	129.458	129.458	129.458	129.458	129.458	129.458
		Vy	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551
		Vz	-2.433	-2.433	-2.433	-2.433	-2.433	-2.433	-2.433
		Mt	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
		My	17.21	17.66	18.12	18.58	19.03	19.49	19.94
		Mz	-0.23	0.06	0.35	0.64	0.93	1.22	1.51
	Vento 0	N	-72.615	-72.615	-72.615	-72.615	-72.615	-72.615	-72.615
		Vy	5.194	5.194	5.194	5.194	5.194	5.194	5.194
		Vz	3.049	3.049	3.049	3.049	3.049	3.049	3.049
		Mt	3.33	3.33	3.33	3.33	3.33	3.33	3.33
		My	-0.53	-1.11	-1.68	-2.25	-2.82	-3.39	-3.96
		Mz	14.53	13.55	12.58	11.61	10.64	9.66	8.69
	Vento 180	N	73.959	73.881	73.804	73.726	73.649	73.571	73.494
		Vy	-6.203	-5.933	-5.663	-5.393	-5.123	-4.853	-4.583
		Vz	-2.368	-2.361	-2.355	-2.348	-2.341	-2.334	-2.327
		Mt	-3.52	-3.52	-3.52	-3.52	-3.52	-3.52	-3.52
		My	1.32	1.77	2.21	2.65	3.09	3.52	3.96
		Mz	-14.55	-13.42	-12.33	-11.30	-10.31	-9.38	-8.49
	Multidão (Passeio)	N	89.999	89.999	89.999	89.999	89.999	89.999	89.999
		Vy	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210
		Vz	-1.627	-1.627	-1.627	-1.627	-1.627	-1.627	-1.627
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	12.09	12.39	12.70	13.00	13.30	13.61	13.91
		Mz	-0.06	-0.02	0.01	0.05	0.09	0.13	0.17
	Multidão - TB450	N	299.067	299.067	299.067	299.067	299.067	299.067	299.067
		Vy	-4.695	-4.695	-4.695	-4.695	-4.695	-4.695	-4.695
		Vz	-5.704	-5.704	-5.704	-5.704	-5.704	-5.704	-5.704
		Mt	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	39.60	40.67	41.73	42.80	43.87	44.94	46.01
		Mz	-0.65	0.23	1.11	1.99	2.87	3.74	4.62
	TB-450-A1	N	25.997	25.997	25.997	25.997	25.997	25.997	25.997
		Vy	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126
		Vz	0.482	0.482	0.482	0.482	0.482	0.482	0.482
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	2.65	2.56	2.47	2.38	2.29	2.20	2.10
		Mz	-0.34	-0.32	-0.29	-0.27	-0.25	-0.22	-0.20
	TB-450-A2	N	64.694	64.694	64.694	64.694	64.694	64.694	64.694
		Vy	0.175	0.175	0.175	0.175	0.175	0.175	0.175
		Vz	1.104	1.104	1.104	1.104	1.104	1.104	1.104
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	6.27	6.06	5.85	5.65	5.44	5.23	5.03
		Mz	0.39	0.36	0.32	0.29	0.26	0.23	0.19
	TB-450-B1	N	78.817	78.817	78.817	78.817	78.817	78.817	78.817
		Vy	0.890	0.890	0.890	0.890	0.890	0.890	0.890
		Vz	3.040	3.040	3.040	3.040	3.040	3.040	3.040
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.45	24.88	24.31	23.74	23.17	22.60	22.03
		Mz	0.38	0.21	0.04	-0.12	-0.29	-0.46	-0.62
	TB-450-B2	N	175.957	175.957	175.957	175.957	175.957	175.957	175.957
		Vy	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381
		Vz	7.305	7.305	7.305	7.305	7.305	7.305	7.305
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	60.07	58.70	57.34	55.97	54.60	53.23	51.86
		Mz	-0.33	-0.26	-0.18	-0.11	-0.04	0.03	0.10
	TB-450-C1	N	173.656	173.656	173.656	173.656	173.656	173.656	173.656
		Vy	-6.960	-6.960	-6.960	-6.960	-6.960	-6.960	-6.960
		Vz	-15.262	-15.262	-15.262	-15.262	-15.262	-15.262	-15.262
		Mt	-0.62	-0.62	-0.62	-0.62	-0.62	-0.62	-0.62
		My	8.59	11.45	14.31	17.16	20.02	22.88	25.74
		Mz	-0.66	0.64	1.94	3.25	4.55	5.85	7.16
	TB-450-C2	N	81.681	81.681	81.681	81.681	81.681	81.681	81.681
		Vy	-5.875	-5.875	-5.875	-5.875	-5.875	-5.875	-5.875

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-6.731	-6.731	-6.731	-6.731	-6.731	-6.731	-6.731
		Mt	-0.63	-0.63	-0.63	-0.63	-0.63	-0.63	-0.63
		My	3.84	5.10	6.36	7.62	8.88	10.14	11.40
		Mz	-0.89	0.21	1.31	2.41	3.51	4.61	5.71
	TB-450-D1	N	47.730	47.730	47.730	47.730	47.730	47.730	47.730
		Vy	0.105	0.105	0.105	0.105	0.105	0.105	0.105
		Vz	-1.198	-1.198	-1.198	-1.198	-1.198	-1.198	-1.198
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.06	0.29	0.51	0.73	0.96	1.18	1.41
		Mz	0.00	-0.02	-0.04	-0.05	-0.07	-0.09	-0.11
	TB-450-D2	N	103.567	103.567	103.567	103.567	103.567	103.567	103.567
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-2.809	-2.809	-2.809	-2.809	-2.809	-2.809	-2.809
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.07	0.46	0.99	1.51	2.04	2.57	3.09
		Mz	0.06	0.04	0.03	0.02	0.01	0.00	-0.02
	TB-450-E1	N	14.450	14.450	14.450	14.450	14.450	14.450	14.450
		Vy	0.151	0.151	0.151	0.151	0.151	0.151	0.151
		Vz	-0.310	-0.310	-0.310	-0.310	-0.310	-0.310	-0.310
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-0.01	0.05	0.11	0.16	0.22	0.28	0.34
		Mz	-0.05	-0.08	-0.11	-0.14	-0.17	-0.19	-0.22
	TB-450-E2	N	35.542	35.542	35.542	35.542	35.542	35.542	35.542
		Vy	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vz	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	-0.13	0.03	0.19	0.34	0.50	0.66	0.82
		Mz	-0.10	-0.13	-0.15	-0.18	-0.20	-0.23	-0.25

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N62/N194	Peso próprio	N	246.259	246.318	246.376	246.435	246.494	246.553	246.612

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	-1.387	-1.387	-1.387	-1.387	-1.387	-1.387	-1.387
		Vz	-4.963	-4.292	-3.622	-2.951	-2.281	-1.610	-0.939
		Mt	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
		My	38.54	39.40	40.14	40.76	41.25	41.61	41.85
		Mz	1.22	1.48	1.74	2.00	2.26	2.52	2.78
	Guarda Corpo	N	69.837	69.837	69.837	69.837	69.837	69.837	69.837
		Vy	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522
		Vz	-1.289	-1.289	-1.289	-1.289	-1.289	-1.289	-1.289
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	10.78	11.02	11.26	11.50	11.74	11.98	12.22
		Mz	0.50	0.60	0.69	0.79	0.89	0.99	1.08
	Laje	N	521.489	521.489	521.489	521.489	521.489	521.489	521.489
		Vy	-6.082	-6.082	-6.082	-6.082	-6.082	-6.082	-6.082
		Vz	-9.773	-9.773	-9.773	-9.773	-9.773	-9.773	-9.773
		Mt	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67
		My	80.35	82.18	84.01	85.84	87.67	89.50	91.33
		Mz	5.93	7.07	8.21	9.35	10.49	11.63	12.76
	Pavimentação	N	286.386	286.386	286.386	286.386	286.386	286.386	286.386
		Vy	-3.476	-3.476	-3.476	-3.476	-3.476	-3.476	-3.476
		Vz	-5.491	-5.491	-5.491	-5.491	-5.491	-5.491	-5.491
		Mt	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38	-0.38
		My	44.11	45.14	46.17	47.19	48.22	49.25	50.28
		Mz	3.40	4.05	4.70	5.35	6.00	6.65	7.30
	Recapeamento	N	129.458	129.458	129.458	129.458	129.458	129.458	129.458
		Vy	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551	-1.551
		Vz	-2.433	-2.433	-2.433	-2.433	-2.433	-2.433	-2.433
		Mt	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
		My	19.94	20.40	20.85	21.31	21.77	22.22	22.68
		Mz	1.51	1.80	2.10	2.39	2.68	2.97	3.26
	Vento 0	N	-72.615	-72.615	-72.615	-72.615	-72.615	-72.615	-72.615
		Vy	5.194	5.194	5.194	5.194	5.194	5.194	5.194
		Vz	3.049	3.049	3.049	3.049	3.049	3.049	3.049
		Mt	3.33	3.33	3.33	3.33	3.33	3.33	3.33
		My	-3.96	-4.53	-5.10	-5.67	-6.25	-6.82	-7.39

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	8.69	7.72	6.74	5.77	4.80	3.83	2.85
	Vento 180	N	73.494	73.416	73.339	73.261	73.184	73.106	73.029
		Vy	-4.583	-4.313	-4.043	-3.773	-3.503	-3.233	-2.963
		Vz	-2.327	-2.321	-2.314	-2.307	-2.300	-2.293	-2.287
		Mt	-3.52	-3.52	-3.52	-3.52	-3.52	-3.52	-3.52
		My	3.96	4.40	4.83	5.26	5.69	6.12	6.55
		Mz	-8.49	-7.66	-6.88	-6.15	-5.46	-4.83	-4.25
	Multidão (Passeio)	N	89.999	89.999	89.999	89.999	89.999	89.999	89.999
		Vy	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210	-0.210
		Vz	-1.627	-1.627	-1.627	-1.627	-1.627	-1.627	-1.627
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	13.91	14.22	14.52	14.83	15.13	15.44	15.74
		Mz	0.17	0.21	0.25	0.29	0.33	0.37	0.41
	Multidão - TB450	N	299.067	299.067	299.067	299.067	299.067	299.067	299.067
		Vy	-4.695	-4.695	-4.695	-4.695	-4.695	-4.695	-4.695
		Vz	-5.704	-5.704	-5.704	-5.704	-5.704	-5.704	-5.704
		Mt	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
		My	46.01	47.08	48.14	49.21	50.28	51.35	52.42
		Mz	4.62	5.50	6.38	7.26	8.14	9.02	9.90
	TB-450-A1	N	25.997	25.997	25.997	25.997	25.997	25.997	25.997
		Vy	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126
		Vz	0.482	0.482	0.482	0.482	0.482	0.482	0.482
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	2.10	2.01	1.92	1.83	1.74	1.65	1.56
		Mz	-0.20	-0.18	-0.15	-0.13	-0.11	-0.08	-0.06
	TB-450-A2	N	64.694	64.694	64.694	64.694	64.694	64.694	64.694
		Vy	0.175	0.175	0.175	0.175	0.175	0.175	0.175
		Vz	1.104	1.104	1.104	1.104	1.104	1.104	1.104
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	5.03	4.82	4.61	4.41	4.20	3.99	3.79
		Mz	0.19	0.16	0.13	0.09	0.06	0.03	0.00
	TB-450-B1	N	78.817	78.817	78.817	78.817	78.817	78.817	78.817
		Vy	0.890	0.890	0.890	0.890	0.890	0.890	0.890
		Vz	3.040	3.040	3.040	3.040	3.040	3.040	3.040

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.03	21.47	20.90	20.33	19.76	19.19	18.62
		Mz	-0.62	-0.79	-0.96	-1.12	-1.29	-1.46	-1.62
	TB-450-B2	N	175.957	175.957	175.957	175.957	175.957	175.957	175.957
		Vy	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381	-0.381
		Vz	7.305	7.305	7.305	7.305	7.305	7.305	7.305
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	51.86	50.49	49.13	47.76	46.39	45.02	43.65
		Mz	0.10	0.17	0.24	0.32	0.39	0.46	0.53
	TB-450-C1	N	173.656	173.656	173.656	173.656	173.656	173.656	173.656
		Vy	-6.960	-6.960	-6.960	-6.960	-6.960	-6.960	-6.960
		Vz	-15.262	-15.262	-15.262	-15.262	-15.262	-15.262	-15.262
		Mt	-0.62	-0.62	-0.62	-0.62	-0.62	-0.62	-0.62
		My	25.74	28.60	31.46	34.32	37.17	40.03	42.89
		Mz	7.16	8.46	9.77	11.07	12.37	13.68	14.98
	TB-450-C2	N	81.681	81.681	81.681	81.681	81.681	81.681	81.681
		Vy	-5.875	-5.875	-5.875	-5.875	-5.875	-5.875	-5.875
		Vz	-6.731	-6.731	-6.731	-6.731	-6.731	-6.731	-6.731
		Mt	-0.63	-0.63	-0.63	-0.63	-0.63	-0.63	-0.63
		My	11.40	12.66	13.92	15.18	16.44	17.70	18.96
		Mz	5.71	6.81	7.91	9.01	10.11	11.21	12.31
	TB-450-D1	N	47.730	47.730	47.730	47.730	47.730	47.730	47.730
		Vy	0.105	0.105	0.105	0.105	0.105	0.105	0.105
		Vz	-1.198	-1.198	-1.198	-1.198	-1.198	-1.198	-1.198
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.41	1.63	1.86	2.08	2.31	2.53	2.75
		Mz	-0.11	-0.13	-0.15	-0.17	-0.19	-0.21	-0.23
	TB-450-D2	N	103.567	103.567	103.567	103.567	103.567	103.567	103.567
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-2.809	-2.809	-2.809	-2.809	-2.809	-2.809	-2.809
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	3.09	3.62	4.14	4.67	5.20	5.72	6.25
		Mz	-0.02	-0.03	-0.04	-0.05	-0.06	-0.08	-0.09
	TB-450-E1	N	14.450	14.450	14.450	14.450	14.450	14.450	14.450

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	0.151	0.151	0.151	0.151	0.151	0.151	0.151
		Vz	-0.310	-0.310	-0.310	-0.310	-0.310	-0.310	-0.310
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	0.34	0.40	0.45	0.51	0.57	0.63	0.69
		Mz	-0.22	-0.25	-0.28	-0.31	-0.34	-0.36	-0.39
	TB-450-E2	N	35.542	35.542	35.542	35.542	35.542	35.542	35.542
		Vy	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vz	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848	-0.848
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	0.82	0.98	1.14	1.30	1.46	1.62	1.77
		Mz	-0.25	-0.27	-0.30	-0.32	-0.35	-0.37	-0.40

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N194/N3	Peso próprio	N	255.233	255.273	255.312
		Vy	-1.033	-1.033	-1.033
		Vz	-66.758	-66.311	-65.863
		Mt	-2.37	-2.37	-2.37
		My	26.51	34.82	43.08
		Mz	2.66	2.79	2.92
	Guarda Corpo	N	72.336	72.336	72.336
		Vy	-0.415	-0.415	-0.415
		Vz	-23.599	-23.599	-23.599
		Mt	-0.73	-0.73	-0.73
		My	8.08	11.03	13.98
		Mz	1.05	1.10	1.15
	Laje	N	540.017	540.017	540.017
		Vy	-4.935	-4.935	-4.935
		Vz	-175.462	-175.462	-175.462
		Mt	-7.75	-7.75	-7.75
		My	60.65	82.58	104.51
		Mz	12.37	12.99	13.61

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	296.614	296.614	296.614
		Vy	-2.826	-2.826	-2.826
		Vz	-96.923	-96.923	-96.923
		Mt	-4.40	-4.40	-4.40
		My	33.33	45.45	57.57
		Mz	7.08	7.43	7.79
	Recapeamento	N	134.057	134.057	134.057
		Vy	-1.260	-1.260	-1.260
		Vz	-43.565	-43.565	-43.565
		Mt	-1.97	-1.97	-1.97
		My	15.06	20.51	25.95
		Mz	3.16	3.32	3.47
	Vento 0	N	-74.572	-74.572	-74.572
		Vy	-0.727	-0.727	-0.727
		Vz	20.524	20.524	20.524
		Mt	39.54	39.54	39.54
		My	-4.01	-6.58	-9.14
		Mz	4.87	4.96	5.05
	Vento 180	N	74.255	74.203	74.152
		Vy	5.747	5.927	6.107
		Vz	-19.841	-19.837	-19.832
		Mt	-41.27	-41.27	-41.27
		My	4.08	6.56	9.04
		Mz	-6.31	-7.04	-7.79
	Multidão (Passeio)	N	93.248	93.248	93.248
		Vy	-0.144	-0.144	-0.144
		Vz	-30.557	-30.557	-30.557
		Mt	-0.44	-0.44	-0.44
		My	10.34	14.16	17.98
		Mz	0.39	0.40	0.42
	Multidão - TB450	N	309.626	309.626	309.626
		Vy	-3.847	-3.847	-3.847
		Vz	-100.294	-100.294	-100.294
		Mt	-5.73	-5.73	-5.73

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	34.96	47.50	60.03
		Mz	9.61	10.09	10.57
	TB-450-A1	N	24.717	24.717	24.717
		Vy	-0.194	-0.194	-0.194
		Vz	9.917	9.917	9.917
		Mt	0.46	0.46	0.46
		My	4.14	2.90	1.66
		Mz	-0.04	-0.01	0.01
	TB-450-A2	N	61.649	61.649	61.649
		Vy	0.102	0.102	0.102
		Vz	23.526	23.526	23.526
		Mt	0.48	0.48	0.48
		My	9.93	6.99	4.04
		Mz	0.02	0.01	-0.01
	TB-450-B1	N	78.315	78.315	78.315
		Vy	0.902	0.902	0.902
		Vz	2.077	2.077	2.077
		Mt	-0.06	-0.06	-0.06
		My	20.83	20.57	20.32
		Mz	-1.63	-1.74	-1.85
	TB-450-B2	N	174.730	174.730	174.730
		Vy	-0.395	-0.395	-0.395
		Vz	5.382	5.382	5.382
		Mt	0.09	0.09	0.09
		My	48.95	48.28	47.61
		Mz	0.53	0.58	0.63
	TB-450-C1	N	185.684	185.684	185.684
		Vy	-5.893	-5.893	-5.893
		Vz	-118.890	-118.890	-118.890
		Mt	-7.22	-7.22	-7.22
		My	21.89	36.76	51.62
		Mz	14.61	15.35	16.09
	TB-450-C2	N	86.764	86.764	86.764
		Vy	-4.808	-4.808	-4.808

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-50.904	-50.904	-50.904
		Mt	-7.22	-7.22	-7.22
		My	10.16	16.52	22.88
		Mz	11.95	12.55	13.15
	TB-450-D1	N	51.578	51.578	51.578
		Vy	0.098	0.098	0.098
		Vz	-31.284	-31.284	-31.284
		Mt	0.04	0.04	0.04
		My	-4.64	-0.73	3.18
		Mz	-0.23	-0.24	-0.25
	TB-450-D2	N	112.611	112.611	112.611
		Vy	0.088	0.088	0.088
		Vz	-73.498	-73.498	-73.498
		Mt	-0.15	-0.15	-0.15
		My	-11.15	-1.96	7.23
		Mz	-0.10	-0.11	-0.12
	TB-450-E1	N	15.608	15.608	15.608
		Vy	0.181	0.181	0.181
		Vz	-9.347	-9.347	-9.347
		Mt	-0.20	-0.20	-0.20
		My	-1.54	-0.37	0.79
		Mz	-0.40	-0.42	-0.45
	TB-450-E2	N	38.697	38.697	38.697
		Vy	0.206	0.206	0.206
		Vz	-25.477	-25.477	-25.477
		Mt	-0.49	-0.49	-0.49
		My	-4.31	-1.13	2.06
		Mz	-0.42	-0.45	-0.47

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
N6/N66	Peso próprio	N	76.781	76.881	76.981	77.082	77.182	77.282	77.382

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	4.967	5.787	6.607	7.426	8.246	9.066	9.885
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.24	-2.66	-4.27	-6.07	-8.06	-10.24
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06
	Guarda Corpo	N	20.484	20.484	20.484	20.484	20.484	20.484	20.484
		Vy	0.084	0.084	0.084	0.084	0.084	0.084	0.084
		Vz	3.016	3.016	3.016	3.016	3.016	3.016	3.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.69	-1.39	-2.08	-2.77	-3.47	-4.16
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.12
	Laje	N	152.062	152.062	152.062	152.062	152.062	152.062	152.062
		Vy	0.749	0.749	0.749	0.749	0.749	0.749	0.749
		Vz	22.389	22.389	22.389	22.389	22.389	22.389	22.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-5.14	-10.29	-15.43	-20.58	-25.72	-30.87
		Mz	0.00	-0.17	-0.34	-0.52	-0.69	-0.86	-1.03
	Pavimentação	N	83.348	83.348	83.348	83.348	83.348	83.348	83.348
		Vy	0.406	0.406	0.406	0.406	0.406	0.406	0.406
		Vz	12.314	12.314	12.314	12.314	12.314	12.314	12.314
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.83	-5.66	-8.49	-11.32	-14.15	-16.98
		Mz	0.00	-0.09	-0.19	-0.28	-0.37	-0.47	-0.56
	Recapeamento	N	37.728	37.728	37.728	37.728	37.728	37.728	37.728
		Vy	0.188	0.188	0.188	0.188	0.188	0.188	0.188
		Vz	5.556	5.556	5.556	5.556	5.556	5.556	5.556
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.28	-2.55	-3.83	-5.11	-6.38	-7.66
		Mz	0.00	-0.04	-0.09	-0.13	-0.17	-0.22	-0.26
	Vento 0	N	2.699	2.699	2.699	2.699	2.699	2.699	2.699
		Vy	-35.548	-35.548	-35.548	-35.548	-35.548	-35.548	-35.548
		Vz	-1.990	-1.990	-1.990	-1.990	-1.990	-1.990	-1.990
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.46	0.91	1.37	1.83	2.29	2.74

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
		Mz	0.00	8.17	16.34	24.50	32.67	40.84	49.01
	Vento 180	N	-3.455	-3.361	-3.266	-3.171	-3.076	-2.982	-2.887
		Vy	37.427	37.095	36.764	36.433	36.102	35.771	35.440
		Vz	1.819	1.807	1.796	1.784	1.773	1.761	1.750
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.42	-0.83	-1.24	-1.65	-2.06	-2.46
		Mz	0.00	-8.56	-17.05	-25.46	-33.79	-42.05	-50.23
	Multidão (Passeio)	N	26.591	26.591	26.591	26.591	26.591	26.591	26.591
		Vy	0.083	0.083	0.083	0.083	0.083	0.083	0.083
		Vz	3.915	3.915	3.915	3.915	3.915	3.915	3.915
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.90	-1.80	-2.70	-3.60	-4.50	-5.40
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.09	-0.11
	Multidão - TB450	N	86.693	86.693	86.693	86.693	86.693	86.693	86.693
		Vy	0.496	0.496	0.496	0.496	0.496	0.496	0.496
		Vz	12.769	12.769	12.769	12.769	12.769	12.769	12.769
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.93	-5.87	-8.80	-11.74	-14.67	-17.60
		Mz	0.00	-0.11	-0.23	-0.34	-0.46	-0.57	-0.68
	TB-450-A1	N	3.145	3.145	3.145	3.145	3.145	3.145	3.145
		Vy	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vz	0.838	0.838	0.838	0.838	0.838	0.838	0.838
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.19	-0.39	-0.58	-0.77	-0.96	-1.16
		Mz	0.00	-0.01	-0.02	-0.04	-0.05	-0.06	-0.07
	TB-450-A2	N	7.632	7.632	7.632	7.632	7.632	7.632	7.632
		Vy	0.129	0.129	0.129	0.129	0.129	0.129	0.129
		Vz	2.032	2.032	2.032	2.032	2.032	2.032	2.032
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.47	-0.93	-1.40	-1.87	-2.34	-2.80
		Mz	0.00	-0.03	-0.06	-0.09	-0.12	-0.15	-0.18
	TB-450-B1	N	9.563	9.563	9.563	9.563	9.563	9.563	9.563
		Vy	0.614	0.614	0.614	0.614	0.614	0.614	0.614
		Vz	2.581	2.581	2.581	2.581	2.581	2.581	2.581

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.59	-1.19	-1.78	-2.37	-2.97	-3.56
		Mz	0.00	-0.14	-0.28	-0.42	-0.56	-0.71	-0.85
	TB-450-B2	N	23.037	23.037	23.037	23.037	23.037	23.037	23.037
		Vy	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595
		Vz	6.058	6.058	6.058	6.058	6.058	6.058	6.058
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.39	-2.78	-4.18	-5.57	-6.96	-8.35
		Mz	0.00	0.14	0.27	0.41	0.55	0.68	0.82
	TB-450-C1	N	38.073	38.073	38.073	38.073	38.073	38.073	38.073
		Vy	-0.852	-0.852	-0.852	-0.852	-0.852	-0.852	-0.852
		Vz	9.957	9.957	9.957	9.957	9.957	9.957	9.957
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.29	-4.58	-6.86	-9.15	-11.44	-13.73
		Mz	0.00	0.20	0.39	0.59	0.78	0.98	1.17
	TB-450-C2	N	15.776	15.776	15.776	15.776	15.776	15.776	15.776
		Vy	0.998	0.998	0.998	0.998	0.998	0.998	0.998
		Vz	4.229	4.229	4.229	4.229	4.229	4.229	4.229
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-0.97	-1.94	-2.92	-3.89	-4.86	-5.83
		Mz	0.00	-0.23	-0.46	-0.69	-0.92	-1.15	-1.38
	TB-450-D1	N	22.138	22.138	22.138	22.138	22.138	22.138	22.138
		Vy	0.829	0.829	0.829	0.829	0.829	0.829	0.829
		Vz	5.205	5.205	5.205	5.205	5.205	5.205	5.205
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-1.20	-2.39	-3.59	-4.78	-5.98	-7.18
		Mz	0.00	-0.19	-0.38	-0.57	-0.76	-0.95	-1.14
	TB-450-D2	N	52.908	52.908	52.908	52.908	52.908	52.908	52.908
		Vy	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
		Vz	12.250	12.250	12.250	12.250	12.250	12.250	12.250
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	-2.81	-5.63	-8.44	-11.26	-14.07	-16.89
		Mz	0.00	0.17	0.34	0.51	0.68	0.86	1.03
	TB-450-E1	N	14.649	14.649	14.649	14.649	14.649	14.649	14.649

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
		Vy	0.475	0.475	0.475	0.475	0.475	0.475	0.475
		Vz	-1.503	-1.503	-1.503	-1.503	-1.503	-1.503	-1.503
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.35	0.69	1.04	1.38	1.73	2.07
		Mz	0.00	-0.11	-0.22	-0.33	-0.44	-0.55	-0.65
	TB-450-E2	N	43.335	43.335	43.335	43.335	43.335	43.335	43.335
		Vy	0.071	0.071	0.071	0.071	0.071	0.071	0.071
		Vz	-6.147	-6.147	-6.147	-6.147	-6.147	-6.147	-6.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	1.41	2.83	4.24	5.65	7.06	8.48
		Mz	0.00	-0.02	-0.03	-0.05	-0.07	-0.08	-0.10

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N66/N205	Peso próprio	N	77.382	77.463	77.545	77.627	77.709	77.791	77.873
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	9.885	10.557	11.228	11.899	12.570	13.241	13.912
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.24	-12.16	-14.21	-16.39	-18.69	-21.11	-23.67
		Mz	0.06	0.07	0.08	0.09	0.10	0.11	0.11
	Guarda Corpo	N	20.484	20.484	20.484	20.484	20.484	20.484	20.484
		Vy	0.084	0.084	0.084	0.084	0.084	0.084	0.084
		Vz	3.016	3.016	3.016	3.016	3.016	3.016	3.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.16	-4.73	-5.29	-5.86	-6.43	-7.00	-7.56
		Mz	-0.12	-0.13	-0.15	-0.16	-0.18	-0.19	-0.21
	Laje	N	152.062	152.062	152.062	152.062	152.062	152.062	152.062
		Vy	0.749	0.749	0.749	0.749	0.749	0.749	0.749
		Vz	22.389	22.389	22.389	22.389	22.389	22.389	22.389
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-30.87	-35.08	-39.29	-43.50	-47.71	-51.92	-56.14
		Mz	-1.03	-1.17	-1.31	-1.46	-1.60	-1.74	-1.88

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Pavimentação	N	83.348	83.348	83.348	83.348	83.348	83.348	83.348
		Vy	0.406	0.406	0.406	0.406	0.406	0.406	0.406
		Vz	12.314	12.314	12.314	12.314	12.314	12.314	12.314
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.98	-19.29	-21.61	-23.93	-26.24	-28.56	-30.88
		Mz	-0.56	-0.64	-0.71	-0.79	-0.87	-0.94	-1.02
	Recapeamento	N	37.728	37.728	37.728	37.728	37.728	37.728	37.728
		Vy	0.188	0.188	0.188	0.188	0.188	0.188	0.188
		Vz	5.556	5.556	5.556	5.556	5.556	5.556	5.556
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.66	-8.71	-9.75	-10.80	-11.84	-12.89	-13.93
		Mz	-0.26	-0.29	-0.33	-0.37	-0.40	-0.44	-0.47
	Vento 0	N	2.699	2.699	2.699	2.699	2.699	2.699	2.699
		Vy	-35.548	-35.548	-35.548	-35.548	-35.548	-35.548	-35.548
		Vz	-1.990	-1.990	-1.990	-1.990	-1.990	-1.990	-1.990
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.74	3.12	3.49	3.87	4.24	4.62	4.99
		Mz	49.01	55.70	62.38	69.07	75.76	82.44	89.13
	Vento 180	N	-2.887	-2.809	-2.732	-2.654	-2.577	-2.499	-2.422
		Vy	35.440	35.168	34.897	34.626	34.355	34.084	33.813
		Vz	1.750	1.740	1.731	1.721	1.712	1.702	1.693
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.46	-2.79	-3.11	-3.44	-3.76	-4.08	-4.40
		Mz	-50.23	-56.87	-63.46	-70.00	-76.49	-82.93	-89.31
	Multidão (Passeio)	N	26.591	26.591	26.591	26.591	26.591	26.591	26.591
		Vy	0.083	0.083	0.083	0.083	0.083	0.083	0.083
		Vz	3.915	3.915	3.915	3.915	3.915	3.915	3.915
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.40	-6.13	-6.87	-7.61	-8.34	-9.08	-9.82
		Mz	-0.11	-0.13	-0.14	-0.16	-0.18	-0.19	-0.21
	Multidão - TB450	N	86.693	86.693	86.693	86.693	86.693	86.693	86.693
		Vy	0.496	0.496	0.496	0.496	0.496	0.496	0.496
		Vz	12.769	12.769	12.769	12.769	12.769	12.769	12.769
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	-17.60	-20.01	-22.41	-24.81	-27.21	-29.61	-32.02
		Mz	-0.68	-0.78	-0.87	-0.96	-1.06	-1.15	-1.24
	TB-450-A1	N	3.145	3.145	3.145	3.145	3.145	3.145	3.145
		Vy	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vz	0.838	0.838	0.838	0.838	0.838	0.838	0.838
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.16	-1.31	-1.47	-1.63	-1.79	-1.94	-2.10
		Mz	-0.07	-0.08	-0.09	-0.10	-0.11	-0.12	-0.13
	TB-450-A2	N	7.632	7.632	7.632	7.632	7.632	7.632	7.632
		Vy	0.129	0.129	0.129	0.129	0.129	0.129	0.129
		Vz	2.032	2.032	2.032	2.032	2.032	2.032	2.032
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.80	-3.18	-3.57	-3.95	-4.33	-4.71	-5.10
		Mz	-0.18	-0.20	-0.23	-0.25	-0.27	-0.30	-0.32
	TB-450-B1	N	9.563	9.563	9.563	9.563	9.563	9.563	9.563
		Vy	0.614	0.614	0.614	0.614	0.614	0.614	0.614
		Vz	2.581	2.581	2.581	2.581	2.581	2.581	2.581
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.56	-4.04	-4.53	-5.01	-5.50	-5.99	-6.47
		Mz	-0.85	-0.96	-1.08	-1.19	-1.31	-1.42	-1.54
	TB-450-B2	N	23.037	23.037	23.037	23.037	23.037	23.037	23.037
		Vy	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595	-0.595
		Vz	6.058	6.058	6.058	6.058	6.058	6.058	6.058
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.35	-9.49	-10.63	-11.77	-12.91	-14.05	-15.19
		Mz	0.82	0.93	1.04	1.16	1.27	1.38	1.49
	TB-450-C1	N	38.073	38.073	38.073	38.073	38.073	38.073	38.073
		Vy	-0.852	-0.852	-0.852	-0.852	-0.852	-0.852	-0.852
		Vz	9.957	9.957	9.957	9.957	9.957	9.957	9.957
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.73	-15.60	-17.47	-19.35	-21.22	-23.09	-24.97
		Mz	1.17	1.33	1.49	1.65	1.82	1.98	2.14
	TB-450-C2	N	15.776	15.776	15.776	15.776	15.776	15.776	15.776
		Vy	0.998	0.998	0.998	0.998	0.998	0.998	0.998

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	4.229	4.229	4.229	4.229	4.229	4.229	4.229
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.83	-6.63	-7.42	-8.22	-9.01	-9.81	-10.60
		Mz	-1.38	-1.56	-1.75	-1.94	-2.13	-2.31	-2.50
	TB-450-D1	N	22.138	22.138	22.138	22.138	22.138	22.138	22.138
		Vy	0.829	0.829	0.829	0.829	0.829	0.829	0.829
		Vz	5.205	5.205	5.205	5.205	5.205	5.205	5.205
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.18	-8.16	-9.13	-10.11	-11.09	-12.07	-13.05
		Mz	-1.14	-1.30	-1.45	-1.61	-1.77	-1.92	-2.08
	TB-450-D2	N	52.908	52.908	52.908	52.908	52.908	52.908	52.908
		Vy	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
		Vz	12.250	12.250	12.250	12.250	12.250	12.250	12.250
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.89	-19.19	-21.50	-23.80	-26.11	-28.41	-30.72
		Mz	1.03	1.17	1.31	1.45	1.59	1.73	1.87
	TB-450-E1	N	14.649	14.649	14.649	14.649	14.649	14.649	14.649
		Vy	0.475	0.475	0.475	0.475	0.475	0.475	0.475
		Vz	-1.503	-1.503	-1.503	-1.503	-1.503	-1.503	-1.503
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.07	2.36	2.64	2.92	3.20	3.49	3.77
		Mz	-0.65	-0.74	-0.83	-0.92	-1.01	-1.10	-1.19
	TB-450-E2	N	43.335	43.335	43.335	43.335	43.335	43.335	43.335
		Vy	0.071	0.071	0.071	0.071	0.071	0.071	0.071
		Vz	-6.147	-6.147	-6.147	-6.147	-6.147	-6.147	-6.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.48	9.63	10.79	11.94	13.10	14.26	15.41
		Mz	-0.10	-0.11	-0.12	-0.14	-0.15	-0.16	-0.18

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N205/N29	Peso próprio	N	101.127	101.181	101.236

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.023	-0.023	-0.023
		Vz	-173.824	-173.378	-172.932
		Mt	-0.01	-0.01	-0.01
		My	-93.83	-72.13	-50.49
		Mz	0.12	0.12	0.12
	Guarda Corpo	N	26.985	26.985	26.985
		Vy	0.089	0.089	0.089
		Vz	-56.957	-56.957	-56.957
		Mt	0.01	0.01	0.01
		My	-27.43	-20.31	-13.19
		Mz	-0.21	-0.22	-0.23
	Laje	N	200.334	200.334	200.334
		Vy	0.785	0.785	0.785
		Vz	-422.935	-422.935	-422.935
		Mt	0.05	0.05	0.05
		My	-203.64	-150.77	-97.90
		Mz	-1.85	-1.95	-2.05
	Pavimentação	N	109.824	109.824	109.824
		Vy	0.426	0.426	0.426
		Vz	-231.773	-231.773	-231.773
		Mt	0.03	0.03	0.03
		My	-111.78	-82.81	-53.84
		Mz	-1.00	-1.06	-1.11
	Recapeamento	N	49.705	49.705	49.705
		Vy	0.197	0.197	0.197
		Vz	-104.934	-104.934	-104.934
		Mt	0.01	0.01	0.01
		My	-50.53	-37.41	-24.30
		Mz	-0.47	-0.49	-0.51
	Vento 0	N	0.000	0.000	0.000
		Vy	-35.835	-35.835	-35.835
		Vz	19.926	19.926	19.926
		Mt	-0.86	-0.86	-0.86
		My	13.53	11.03	8.54

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	88.73	93.21	97.69
	Vento 180	N	1.096	1.147	1.199
		Vy	31.698	31.518	31.338
		Vz	-20.938	-20.944	-20.951
		Mt	-0.43	-0.43	-0.43
		My	-13.85	-11.24	-8.62
		Mz	-88.95	-92.90	-96.83
	Multidão (Passeio)	N	35.028	35.028	35.028
		Vy	0.089	0.089	0.089
		Vz	-73.917	-73.917	-73.917
		Mt	0.01	0.01	0.01
		My	-35.60	-26.36	-17.12
		Mz	-0.20	-0.21	-0.22
	Multidão - TB450	N	114.221	114.221	114.221
		Vy	0.517	0.517	0.517
		Vz	-241.176	-241.176	-241.176
		Mt	0.03	0.03	0.03
		My	-116.13	-85.98	-55.84
		Mz	-1.23	-1.29	-1.36
	TB-450-A1	N	4.305	4.305	4.305
		Vy	0.056	0.056	0.056
		Vz	-8.432	-8.432	-8.432
		Mt	0.01	0.01	0.01
		My	-5.69	-4.64	-3.59
		Mz	-0.13	-0.13	-0.14
	TB-450-A2	N	10.447	10.447	10.447
		Vy	0.131	0.131	0.131
		Vz	-20.461	-20.461	-20.461
		Mt	0.01	0.01	0.01
		My	-13.81	-11.26	-8.70
		Mz	-0.32	-0.34	-0.35
	TB-450-B1	N	13.137	13.137	13.137
		Vy	0.622	0.622	0.622
		Vz	-25.984	-25.984	-25.984

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.03	0.03	0.03
		My	-17.54	-14.29	-11.05
		Mz	-1.53	-1.61	-1.68
	TB-450-B2	N	31.430	31.430	31.430
		Vy	-0.600	-0.600	-0.600
		Vz	-61.007	-61.007	-61.007
		Mt	-0.02	-0.02	-0.02
		My	-41.17	-33.55	-25.92
		Mz	1.48	1.56	1.63
	TB-450-C1	N	51.932	51.932	51.932
		Vy	-0.859	-0.859	-0.859
		Vz	-100.961	-100.961	-100.961
		Mt	-0.01	-0.01	-0.01
		My	-67.87	-55.25	-42.63
		Mz	2.13	2.23	2.34
	TB-450-C2	N	21.659	21.659	21.659
		Vy	1.007	1.007	1.007
		Vz	-42.865	-42.865	-42.865
		Mt	0.03	0.03	0.03
		My	-28.82	-23.46	-18.11
		Mz	-2.49	-2.62	-2.74
	TB-450-D1	N	30.020	30.020	30.020
		Vy	0.836	0.836	0.836
		Vz	-59.476	-59.476	-59.476
		Mt	0.02	0.02	0.02
		My	-37.42	-29.98	-22.55
		Mz	-2.07	-2.17	-2.28
	TB-450-D2	N	71.470	71.470	71.470
		Vy	-0.750	-0.750	-0.750
		Vz	-140.080	-140.080	-140.080
		Mt	0.00	0.00	0.00
		My	-88.09	-70.58	-53.07
		Mz	1.86	1.96	2.05
	TB-450-E1	N	17.875	17.875	17.875

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.490	0.490	0.490
		Vz	-45.969	-45.969	-45.969
		Mt	-0.01	-0.01	-0.01
		My	-5.52	0.22	5.97
		Mz	-1.19	-1.25	-1.31
	TB-450-E2	N	51.818	51.818	51.818
		Vy	0.083	0.083	0.083
		Vz	-134.142	-134.142	-134.142
		Mt	0.03	0.03	0.03
		My	-8.83	7.94	24.71
		Mz	-0.16	-0.17	-0.18

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N29/N204	Peso próprio	N	102.598	102.652	102.707
		Vy	0.120	0.120	0.120
		Vz	-160.632	-160.186	-159.740
		Mt	-0.01	-0.01	-0.01
		My	-50.94	-30.89	-10.89
		Mz	0.12	0.10	0.09
	Guarda Corpo	N	28.898	28.898	28.898
		Vy	-0.060	-0.060	-0.060
		Vz	-41.748	-41.748	-41.748
		Mt	0.01	0.01	0.01
		My	-13.75	-8.53	-3.31
		Mz	-0.22	-0.22	-0.21
	Laje	N	214.862	214.862	214.862
		Vy	-0.506	-0.506	-0.506
		Vz	-309.953	-309.953	-309.953
		Mt	0.05	0.05	0.05
		My	-102.04	-63.30	-24.55
		Mz	-2.00	-1.94	-1.88

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	117.766	117.766	117.766
		Vy	-0.270	-0.270	-0.270
		Vz	-170.121	-170.121	-170.121
		Mt	0.03	0.03	0.03
		My	-56.10	-34.83	-13.57
		Mz	-1.09	-1.05	-1.02
	Recapeamento	N	53.315	53.315	53.315
		Vy	-0.127	-0.127	-0.127
		Vz	-76.911	-76.911	-76.911
		Mt	0.01	0.01	0.01
		My	-25.32	-15.71	-6.09
		Mz	-0.50	-0.49	-0.47
	Vento 0	N	-20.496	-20.496	-20.496
		Vy	33.794	33.794	33.794
		Vz	20.832	20.832	20.832
		Mt	-1.01	-1.01	-1.01
		My	8.56	5.95	3.35
		Mz	95.15	90.93	86.71
	Vento 180	N	19.354	19.405	19.457
		Vy	-29.624	-29.804	-29.984
		Vz	-21.551	-21.557	-21.564
		Mt	-0.30	-0.30	-0.30
		My	-8.64	-5.94	-3.25
		Mz	-94.62	-90.90	-87.17
	Multidão (Passeio)	N	37.443	37.443	37.443
		Vy	-0.064	-0.064	-0.064
		Vz	-54.182	-54.182	-54.182
		Mt	0.01	0.01	0.01
		My	-17.84	-11.07	-4.30
		Mz	-0.22	-0.21	-0.20
	Multidão - TB450	N	122.681	122.681	122.681
		Vy	-0.323	-0.323	-0.323
		Vz	-176.762	-176.762	-176.762
		Mt	0.03	0.03	0.03

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-58.20	-36.10	-14.01
		Mz	-1.33	-1.29	-1.25
	TB-450-A1	N	4.300	4.300	4.300
		Vy	-0.065	-0.065	-0.065
		Vz	-8.434	-8.434	-8.434
		Mt	0.01	0.01	0.01
		My	-3.59	-2.53	-1.48
		Mz	-0.14	-0.13	-0.12
	TB-450-A2	N	10.484	10.484	10.484
		Vy	-0.137	-0.137	-0.137
		Vz	-20.464	-20.464	-20.464
		Mt	0.01	0.01	0.01
		My	-8.70	-6.14	-3.58
		Mz	-0.34	-0.33	-0.31
	TB-450-B1	N	13.448	13.448	13.448
		Vy	-0.610	-0.610	-0.610
		Vz	-26.000	-26.000	-26.000
		Mt	0.03	0.03	0.03
		My	-11.05	-7.80	-4.55
		Mz	-1.64	-1.56	-1.49
	TB-450-B2	N	31.020	31.020	31.020
		Vy	0.563	0.563	0.563
		Vz	-60.992	-60.992	-60.992
		Mt	-0.02	-0.02	-0.02
		My	-25.92	-18.30	-10.67
		Mz	1.59	1.52	1.45
	TB-450-C1	N	52.063	52.063	52.063
		Vy	0.967	0.967	0.967
		Vz	-100.935	-100.935	-100.935
		Mt	-0.02	-0.02	-0.02
		My	-42.63	-30.01	-17.39
		Mz	2.28	2.15	2.03
	TB-450-C2	N	22.864	22.864	22.864
		Vy	-0.822	-0.822	-0.822

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-42.886	-42.886	-42.886
		Mt	0.03	0.03	0.03
		My	-18.11	-12.75	-7.39
		Mz	-2.68	-2.57	-2.47
	TB-450-D1	N	31.231	31.231	31.231
		Vy	-0.679	-0.679	-0.679
		Vz	-59.500	-59.500	-59.500
		Mt	0.02	0.02	0.02
		My	-22.55	-15.11	-7.68
		Mz	-2.22	-2.14	-2.05
	TB-450-D2	N	71.837	71.837	71.837
		Vy	0.546	0.546	0.546
		Vz	-140.064	-140.064	-140.064
		Mt	-0.01	-0.01	-0.01
		My	-53.07	-35.56	-18.06
		Mz	2.00	1.94	1.87
	TB-450-E1	N	22.091	22.091	22.091
		Vy	-0.468	-0.468	-0.468
		Vz	-8.470	-8.470	-8.470
		Mt	-0.01	-0.01	-0.01
		My	4.60	5.65	6.71
		Mz	-1.28	-1.22	-1.16
	TB-450-E2	N	65.778	65.778	65.778
		Vy	0.200	0.200	0.200
		Vz	-12.027	-12.027	-12.027
		Mt	0.03	0.03	0.03
		My	20.24	21.74	23.25
		Mz	-0.19	-0.21	-0.24

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N204/N65	Peso próprio	N	145.256	145.338	145.420	145.502	145.583	145.665	145.747

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	-29.689	-29.018	-28.347	-27.676	-27.005	-26.334	-25.663
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-46.26	-40.74	-35.35	-30.08	-24.93	-19.92	-15.03
		Mz	0.09	0.06	0.04	0.02	0.00	-0.02	-0.04
	Guarda Corpo	N	40.373	40.373	40.373	40.373	40.373	40.373	40.373
		Vy	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059
		Vz	-7.672	-7.672	-7.672	-7.672	-7.672	-7.672	-7.672
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.39	-11.95	-10.51	-9.06	-7.62	-6.18	-4.73
		Mz	-0.21	-0.20	-0.19	-0.17	-0.16	-0.15	-0.14
	Laje	N	300.052	300.052	300.052	300.052	300.052	300.052	300.052
		Vy	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499
		Vz	-56.971	-56.971	-56.971	-56.971	-56.971	-56.971	-56.971
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-99.42	-88.71	-77.99	-67.27	-56.55	-45.84	-35.12
		Mz	-1.87	-1.77	-1.68	-1.58	-1.49	-1.40	-1.30
	Pavimentação	N	164.530	164.530	164.530	164.530	164.530	164.530	164.530
		Vy	-0.266	-0.266	-0.266	-0.266	-0.266	-0.266	-0.266
		Vz	-31.234	-31.234	-31.234	-31.234	-31.234	-31.234	-31.234
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-54.65	-48.78	-42.90	-37.03	-31.15	-25.28	-19.40
		Mz	-1.01	-0.96	-0.91	-0.86	-0.81	-0.76	-0.71
	Recapeamento	N	74.454	74.454	74.454	74.454	74.454	74.454	74.454
		Vy	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125
		Vz	-14.135	-14.135	-14.135	-14.135	-14.135	-14.135	-14.135
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.67	-22.01	-19.35	-16.70	-14.04	-11.38	-8.72
		Mz	-0.47	-0.45	-0.42	-0.40	-0.37	-0.35	-0.33
	Vento 0	N	-26.215	-26.215	-26.215	-26.215	-26.215	-26.215	-26.215
		Vy	33.596	33.596	33.596	33.596	33.596	33.596	33.596
		Vz	3.574	3.574	3.574	3.574	3.574	3.574	3.574
		Mt	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34
		My	8.13	7.46	6.79	6.11	5.44	4.77	4.10

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	86.53	80.21	73.89	67.57	61.25	54.93	48.61
	Vento 180	N	25.970	26.047	26.125	26.202	26.280	26.358	26.435
		Vy	-32.519	-32.790	-33.061	-33.332	-33.603	-33.874	-34.145
		Vz	-4.276	-4.285	-4.295	-4.304	-4.313	-4.323	-4.332
		Mt	0.23	0.23	0.23	0.23	0.23	0.23	0.23
		My	-9.01	-8.20	-7.39	-6.58	-5.77	-4.96	-4.15
		Mz	-87.09	-80.95	-74.76	-68.51	-62.22	-55.87	-49.47
	Multidão (Passeio)	N	52.335	52.335	52.335	52.335	52.335	52.335	52.335
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	-9.956	-9.956	-9.956	-9.956	-9.956	-9.956	-9.956
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.38	-15.51	-13.64	-11.76	-9.89	-8.02	-6.15
		Mz	-0.20	-0.19	-0.18	-0.17	-0.15	-0.14	-0.13
	Multidão - TB450	N	171.263	171.263	171.263	171.263	171.263	171.263	171.263
		Vy	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319
		Vz	-32.490	-32.490	-32.490	-32.490	-32.490	-32.490	-32.490
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-56.70	-50.59	-44.48	-38.37	-32.26	-26.14	-20.03
		Mz	-1.24	-1.18	-1.12	-1.06	-1.00	-0.94	-0.88
	TB-450-A1	N	6.684	6.684	6.684	6.684	6.684	6.684	6.684
		Vy	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064
		Vz	-1.222	-1.222	-1.222	-1.222	-1.222	-1.222	-1.222
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.45	-3.22	-2.99	-2.76	-2.53	-2.30	-2.07
		Mz	-0.12	-0.11	-0.09	-0.08	-0.07	-0.06	-0.05
	TB-450-A2	N	16.268	16.268	16.268	16.268	16.268	16.268	16.268
		Vy	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135
		Vz	-2.965	-2.965	-2.965	-2.965	-2.965	-2.965	-2.965
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.37	-7.82	-7.26	-6.70	-6.14	-5.59	-5.03
		Mz	-0.31	-0.28	-0.26	-0.23	-0.20	-0.18	-0.15
	TB-450-B1	N	20.793	20.793	20.793	20.793	20.793	20.793	20.793
		Vy	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606
		Vz	-3.779	-3.779	-3.779	-3.779	-3.779	-3.779	-3.779

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-10.63	-9.92	-9.21	-8.50	-7.79	-7.08	-6.37
		Mz	-1.48	-1.37	-1.25	-1.14	-1.02	-0.91	-0.80
	TB-450-B2	N	48.262	48.262	48.262	48.262	48.262	48.262	48.262
		Vy	0.560	0.560	0.560	0.560	0.560	0.560	0.560
		Vz	-8.829	-8.829	-8.829	-8.829	-8.829	-8.829	-8.829
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-24.96	-23.30	-21.64	-19.98	-18.32	-16.66	-14.99
		Mz	1.45	1.34	1.24	1.13	1.03	0.92	0.82
	TB-450-C1	N	80.487	80.487	80.487	80.487	80.487	80.487	80.487
		Vy	0.964	0.964	0.964	0.964	0.964	0.964	0.964
		Vz	-14.944	-14.944	-14.944	-14.944	-14.944	-14.944	-14.944
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-40.95	-38.14	-35.33	-32.52	-29.71	-26.90	-24.09
		Mz	2.03	1.85	1.67	1.49	1.30	1.12	0.94
	TB-450-C2	N	34.935	34.935	34.935	34.935	34.935	34.935	34.935
		Vy	-0.817	-0.817	-0.817	-0.817	-0.817	-0.817	-0.817
		Vz	-6.372	-6.372	-6.372	-6.372	-6.372	-6.372	-6.372
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-17.39	-16.19	-15.00	-13.80	-12.60	-11.40	-10.20
		Mz	-2.47	-2.31	-2.16	-2.01	-1.85	-1.70	-1.55
	TB-450-D1	N	46.623	46.623	46.623	46.623	46.623	46.623	46.623
		Vy	-0.676	-0.676	-0.676	-0.676	-0.676	-0.676	-0.676
		Vz	-12.996	-12.996	-12.996	-12.996	-12.996	-12.996	-12.996
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-20.58	-18.13	-15.69	-13.24	-10.80	-8.35	-5.91
		Mz	-2.05	-1.93	-1.80	-1.67	-1.55	-1.42	-1.29
	TB-450-D2	N	108.068	108.068	108.068	108.068	108.068	108.068	108.068
		Vy	0.545	0.545	0.545	0.545	0.545	0.545	0.545
		Vz	-30.595	-30.595	-30.595	-30.595	-30.595	-30.595	-30.595
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-48.42	-42.66	-36.91	-31.15	-25.39	-19.64	-13.88
		Mz	1.86	1.76	1.66	1.56	1.45	1.35	1.25
	TB-450-E1	N	24.431	24.431	24.431	24.431	24.431	24.431	24.431

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467
		Vz	-2.925	-2.925	-2.925	-2.925	-2.925	-2.925	-2.925
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	3.44	3.99	4.54	5.09	5.64	6.19	6.74
		Mz	-1.16	-1.07	-0.98	-0.90	-0.81	-0.72	-0.63
	TB-450-E2	N	70.039	70.039	70.039	70.039	70.039	70.039	70.039
		Vy	0.202	0.202	0.202	0.202	0.202	0.202	0.202
		Vz	-4.116	-4.116	-4.116	-4.116	-4.116	-4.116	-4.116
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	15.44	16.21	16.99	17.76	18.53	19.31	20.08
		Mz	-0.23	-0.26	-0.30	-0.34	-0.38	-0.42	-0.45

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N65/N203	Peso próprio	N	145.747	145.829	145.911	145.993	146.075	146.157	146.239
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	-25.663	-24.992	-24.321	-23.650	-22.979	-22.308	-21.637
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.03	-10.26	-5.62	-1.11	3.27	7.53	11.67
		Mz	-0.04	-0.06	-0.08	-0.11	-0.13	-0.15	-0.17
	Guarda Corpo	N	40.373	40.373	40.373	40.373	40.373	40.373	40.373
		Vy	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059
		Vz	-7.672	-7.672	-7.672	-7.672	-7.672	-7.672	-7.672
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.73	-3.29	-1.85	-0.40	1.04	2.48	3.93
		Mz	-0.14	-0.13	-0.12	-0.11	-0.10	-0.09	-0.08
	Laje	N	300.052	300.052	300.052	300.052	300.052	300.052	300.052
		Vy	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499	-0.499
		Vz	-56.971	-56.971	-56.971	-56.971	-56.971	-56.971	-56.971
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-35.12	-24.40	-13.69	-2.97	7.75	18.46	29.18
		Mz	-1.30	-1.21	-1.12	-1.02	-0.93	-0.83	-0.74

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Pavimentação	N	164.530	164.530	164.530	164.530	164.530	164.530	164.530
		Vy	-0.266	-0.266	-0.266	-0.266	-0.266	-0.266	-0.266
		Vz	-31.234	-31.234	-31.234	-31.234	-31.234	-31.234	-31.234
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-19.40	-13.52	-7.65	-1.77	4.10	9.98	15.85
		Mz	-0.71	-0.66	-0.61	-0.56	-0.51	-0.46	-0.41
	Recapeamento	N	74.454	74.454	74.454	74.454	74.454	74.454	74.454
		Vy	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125	-0.125
		Vz	-14.135	-14.135	-14.135	-14.135	-14.135	-14.135	-14.135
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.72	-6.06	-3.40	-0.74	1.92	4.58	7.24
		Mz	-0.33	-0.30	-0.28	-0.26	-0.23	-0.21	-0.19
	Vento 0	N	-26.215	-26.215	-26.215	-26.215	-26.215	-26.215	-26.215
		Vy	33.596	33.596	33.596	33.596	33.596	33.596	33.596
		Vz	3.574	3.574	3.574	3.574	3.574	3.574	3.574
		Mt	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34
		My	4.10	3.42	2.75	2.08	1.41	0.74	0.06
		Mz	48.61	42.29	35.97	29.65	23.33	17.01	10.69
	Vento 180	N	26.435	26.513	26.590	26.668	26.745	26.823	26.900
		Vy	-34.145	-34.416	-34.688	-34.959	-35.230	-35.501	-35.772
		Vz	-4.332	-4.342	-4.351	-4.361	-4.370	-4.380	-4.389
		Mt	0.23	0.23	0.23	0.23	0.23	0.23	0.23
		My	-4.15	-3.33	-2.51	-1.69	-0.87	-0.05	0.77
		Mz	-49.47	-43.03	-36.53	-29.97	-23.37	-16.72	-10.02
	Multidão (Passeio)	N	52.335	52.335	52.335	52.335	52.335	52.335	52.335
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	-9.956	-9.956	-9.956	-9.956	-9.956	-9.956	-9.956
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.15	-4.27	-2.40	-0.53	1.34	3.22	5.09
		Mz	-0.13	-0.12	-0.11	-0.10	-0.08	-0.07	-0.06
	Multidão - TB450	N	171.263	171.263	171.263	171.263	171.263	171.263	171.263
		Vy	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319	-0.319
		Vz	-32.490	-32.490	-32.490	-32.490	-32.490	-32.490	-32.490
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	-20.03	-13.92	-7.81	-1.70	4.41	10.53	16.64
		Mz	-0.88	-0.82	-0.76	-0.70	-0.64	-0.58	-0.52
	TB-450-A1	N	6.684	6.684	6.684	6.684	6.684	6.684	6.684
		Vy	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064
		Vz	-1.222	-1.222	-1.222	-1.222	-1.222	-1.222	-1.222
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.07	-1.84	-1.61	-1.38	-1.15	-0.92	-0.70
		Mz	-0.05	-0.03	-0.02	-0.01	0.00	0.01	0.03
	TB-450-A2	N	16.268	16.268	16.268	16.268	16.268	16.268	16.268
		Vy	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135
		Vz	-2.965	-2.965	-2.965	-2.965	-2.965	-2.965	-2.965
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.03	-4.47	-3.91	-3.35	-2.80	-2.24	-1.68
		Mz	-0.15	-0.13	-0.10	-0.08	-0.05	-0.03	0.00
	TB-450-B1	N	20.793	20.793	20.793	20.793	20.793	20.793	20.793
		Vy	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606
		Vz	-3.779	-3.779	-3.779	-3.779	-3.779	-3.779	-3.779
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-6.37	-5.66	-4.95	-4.24	-3.52	-2.81	-2.10
		Mz	-0.80	-0.68	-0.57	-0.45	-0.34	-0.23	-0.11
	TB-450-B2	N	48.262	48.262	48.262	48.262	48.262	48.262	48.262
		Vy	0.560	0.560	0.560	0.560	0.560	0.560	0.560
		Vz	-8.829	-8.829	-8.829	-8.829	-8.829	-8.829	-8.829
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-14.99	-13.33	-11.67	-10.01	-8.35	-6.69	-5.03
		Mz	0.82	0.71	0.60	0.50	0.39	0.29	0.18
	TB-450-C1	N	80.487	80.487	80.487	80.487	80.487	80.487	80.487
		Vy	0.964	0.964	0.964	0.964	0.964	0.964	0.964
		Vz	-14.944	-14.944	-14.944	-14.944	-14.944	-14.944	-14.944
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.09	-21.28	-18.46	-15.65	-12.84	-10.03	-7.22
		Mz	0.94	0.76	0.58	0.40	0.22	0.03	-0.15
	TB-450-C2	N	34.935	34.935	34.935	34.935	34.935	34.935	34.935
		Vy	-0.817	-0.817	-0.817	-0.817	-0.817	-0.817	-0.817

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-6.372	-6.372	-6.372	-6.372	-6.372	-6.372	-6.372
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-10.20	-9.00	-7.80	-6.61	-5.41	-4.21	-3.01
		Mz	-1.55	-1.39	-1.24	-1.08	-0.93	-0.78	-0.62
	TB-450-D1	N	46.623	46.623	46.623	46.623	46.623	46.623	46.623
		Vy	-0.676	-0.676	-0.676	-0.676	-0.676	-0.676	-0.676
		Vz	-12.996	-12.996	-12.996	-12.996	-12.996	-12.996	-12.996
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-5.91	-3.46	-1.02	1.43	3.87	6.32	8.76
		Mz	-1.29	-1.16	-1.04	-0.91	-0.78	-0.66	-0.53
	TB-450-D2	N	108.068	108.068	108.068	108.068	108.068	108.068	108.068
		Vy	0.545	0.545	0.545	0.545	0.545	0.545	0.545
		Vz	-30.595	-30.595	-30.595	-30.595	-30.595	-30.595	-30.595
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-13.88	-8.13	-2.37	3.38	9.14	14.89	20.65
		Mz	1.25	1.15	1.04	0.94	0.84	0.74	0.63
	TB-450-E1	N	24.431	24.431	24.431	24.431	24.431	24.431	24.431
		Vy	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467	-0.467
		Vz	-2.925	-2.925	-2.925	-2.925	-2.925	-2.925	-2.925
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	6.74	7.29	7.84	8.39	8.94	9.49	10.04
		Mz	-0.63	-0.54	-0.46	-0.37	-0.28	-0.19	-0.10
	TB-450-E2	N	70.039	70.039	70.039	70.039	70.039	70.039	70.039
		Vy	0.202	0.202	0.202	0.202	0.202	0.202	0.202
		Vz	-4.116	-4.116	-4.116	-4.116	-4.116	-4.116	-4.116
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	20.08	20.86	21.63	22.41	23.18	23.95	24.73
		Mz	-0.45	-0.49	-0.53	-0.57	-0.61	-0.64	-0.68

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N203/N5	Peso próprio	N	159.651	159.706	159.760

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.115	0.115	0.115
		Vz	-154.519	-154.073	-153.627
		Mt	-0.02	-0.02	-0.02
		My	-21.36	-2.07	17.16
		Mz	-0.17	-0.18	-0.20
	Guarda Corpo	N	44.216	44.216	44.216
		Vy	-0.061	-0.061	-0.061
		Vz	-50.194	-50.194	-50.194
		Mt	0.02	0.02	0.02
		My	-5.46	0.81	7.09
		Mz	-0.08	-0.07	-0.06
	Laje	N	328.586	328.586	328.586
		Vy	-0.523	-0.523	-0.523
		Vz	-372.676	-372.676	-372.676
		Mt	0.18	0.18	0.18
		My	-40.51	6.07	52.65
		Mz	-0.74	-0.67	-0.61
	Pavimentação	N	180.195	180.195	180.195
		Vy	-0.280	-0.280	-0.280
		Vz	-204.475	-204.475	-204.475
		Mt	0.10	0.10	0.10
		My	-22.42	3.14	28.70
		Mz	-0.41	-0.38	-0.34
	Recapeamento	N	81.534	81.534	81.534
		Vy	-0.131	-0.131	-0.131
		Vz	-92.472	-92.472	-92.472
		Mt	0.05	0.05	0.05
		My	-10.06	1.50	13.06
		Mz	-0.19	-0.17	-0.15
	Vento 0	N	-28.145	-28.145	-28.145
		Vy	34.249	34.249	34.249
		Vz	23.820	23.820	23.820
		Mt	-4.43	-4.43	-4.43
		My	4.90	1.92	-1.06

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	10.59	6.31	2.03
	Vento 180	N	29.563	29.615	29.666
		Vy	-38.951	-39.131	-39.311
		Vz	-24.613	-24.620	-24.626
		Mt	4.29	4.29	4.29
		My	-4.97	-1.90	1.18
		Mz	-9.94	-5.06	-0.16
	Multidão (Passeio)	N	57.323	57.323	57.323
		Vy	-0.063	-0.063	-0.063
		Vz	-65.141	-65.141	-65.141
		Mt	0.01	0.01	0.01
		My	-7.09	1.05	9.19
		Mz	-0.06	-0.05	-0.04
	Multidão - TB450	N	187.536	187.536	187.536
		Vy	-0.338	-0.338	-0.338
		Vz	-212.532	-212.532	-212.532
		Mt	0.13	0.13	0.13
		My	-23.11	3.46	30.02
		Mz	-0.52	-0.48	-0.43
	TB-450-A1	N	7.496	7.496	7.496
		Vy	-0.064	-0.064	-0.064
		Vz	-9.543	-9.543	-9.543
		Mt	0.01	0.01	0.01
		My	-2.76	-1.57	-0.37
		Mz	0.03	0.03	0.04
	TB-450-A2	N	18.238	18.238	18.238
		Vy	-0.137	-0.137	-0.137
		Vz	-23.153	-23.153	-23.153
		Mt	0.02	0.02	0.02
		My	-6.69	-3.79	-0.90
		Mz	0.00	0.02	0.03
	TB-450-B1	N	23.294	23.294	23.294
		Vy	-0.617	-0.617	-0.617
		Vz	-29.418	-29.418	-29.418

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.08	0.08	0.08
		My	-8.46	-4.78	-1.10
		Mz	-0.11	-0.03	0.04
	TB-450-B2	N	54.132	54.132	54.132
		Vy	0.574	0.574	0.574
		Vz	-68.988	-68.988	-68.988
		Mt	-0.09	-0.09	-0.09
		My	-19.95	-11.33	-2.71
		Mz	0.18	0.11	0.04
	TB-450-C1	N	90.125	90.125	90.125
		Vy	0.963	0.963	0.963
		Vz	-113.864	-113.864	-113.864
		Mt	0.01	0.01	0.01
		My	-31.69	-17.45	-3.22
		Mz	-0.15	-0.27	-0.39
	TB-450-C2	N	39.028	39.028	39.028
		Vy	-0.854	-0.854	-0.854
		Vz	-48.404	-48.404	-48.404
		Mt	0.24	0.24	0.24
		My	-13.40	-7.35	-1.30
		Mz	-0.62	-0.51	-0.40
	TB-450-D1	N	51.458	51.458	51.458
		Vy	-0.707	-0.707	-0.707
		Vz	-67.449	-67.449	-67.449
		Mt	0.20	0.20	0.20
		My	-2.97	5.46	13.89
		Mz	-0.52	-0.44	-0.35
	TB-450-D2	N	119.447	119.447	119.447
		Vy	0.539	0.539	0.539
		Vz	-158.751	-158.751	-158.751
		Mt	0.05	0.05	0.05
		My	-6.96	12.89	32.73
		Mz	0.63	0.57	0.50
	TB-450-E1	N	25.303	25.303	25.303

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.461	-0.461	-0.461
		Vz	-17.191	-17.191	-17.191
		Mt	-0.05	-0.05	-0.05
		My	8.47	10.62	12.77
		Mz	-0.11	-0.05	0.01
	TB-450-E2	N	71.980	71.980	71.980
		Vy	0.224	0.224	0.224
		Vz	-37.420	-37.420	-37.420
		Mt	-0.13	-0.13	-0.13
		My	21.51	26.18	30.86
		Mz	-0.69	-0.71	-0.74

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N5/N202	Peso próprio	N	161.058	161.112	161.167
		Vy	-0.224	-0.224	-0.224
		Vz	-141.064	-140.618	-140.172
		Mt	0.06	0.06	0.06
		My	16.72	34.33	51.88
		Mz	-0.21	-0.18	-0.16
	Guarda Corpo	N	46.205	46.205	46.205
		Vy	-0.045	-0.045	-0.045
		Vz	-34.981	-34.981	-34.981
		Mt	-0.01	-0.01	-0.01
		My	6.52	10.90	15.27
		Mz	-0.05	-0.05	-0.04
	Laje	N	344.178	344.178	344.178
		Vy	-0.664	-0.664	-0.664
		Vz	-259.674	-259.674	-259.674
		Mt	-0.13	-0.13	-0.13
		My	48.45	80.91	113.37
		Mz	-0.49	-0.41	-0.32

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	188.749	188.749	188.749
		Vy	-0.385	-0.385	-0.385
		Vz	-142.813	-142.813	-142.813
		Mt	-0.07	-0.07	-0.07
		My	26.41	44.26	62.11
		Mz	-0.27	-0.23	-0.18
	Recapeamento	N	85.417	85.417	85.417
		Vy	-0.171	-0.171	-0.171
		Vz	-64.444	-64.444	-64.444
		Mt	-0.03	-0.03	-0.03
		My	12.02	20.07	28.13
		Mz	-0.12	-0.10	-0.08
	Vento 0	N	-55.196	-55.196	-55.196
		Vy	4.547	4.547	4.547
		Vz	22.076	22.076	22.076
		Mt	4.45	4.45	4.45
		My	0.85	-1.91	-4.67
		Mz	-0.07	-0.64	-1.21
	Vento 180	N	54.281	54.333	54.384
		Vy	0.284	0.104	-0.076
		Vz	-22.535	-22.542	-22.548
		Mt	-4.68	-4.68	-4.68
		My	-0.75	2.07	4.89
		Mz	1.61	1.59	1.58
	Multidão (Passeio)	N	59.730	59.730	59.730
		Vy	0.013	0.013	0.013
		Vz	-45.399	-45.399	-45.399
		Mt	0.00	0.00	0.00
		My	8.47	14.14	19.82
		Mz	-0.04	-0.04	-0.05
	Multidão - TB450	N	196.881	196.881	196.881
		Vy	-0.563	-0.563	-0.563
		Vz	-148.110	-148.110	-148.110
		Mt	-0.11	-0.11	-0.11

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	27.61	46.13	64.64
		Mz	-0.34	-0.27	-0.20
	TB-450-A1	N	7.409	7.409	7.409
		Vy	0.113	0.113	0.113
		Vz	-9.537	-9.537	-9.537
		Mt	0.01	0.01	0.01
		My	-0.37	0.82	2.01
		Mz	0.04	0.02	0.01
	TB-450-A2	N	18.223	18.223	18.223
		Vy	0.115	0.115	0.115
		Vz	-23.142	-23.142	-23.142
		Mt	-0.01	-0.01	-0.01
		My	-0.90	1.99	4.88
		Mz	0.03	0.02	0.00
	TB-450-B1	N	23.641	23.641	23.641
		Vy	0.062	0.062	0.062
		Vz	-29.382	-29.382	-29.382
		Mt	-0.06	-0.06	-0.06
		My	-1.13	2.54	6.21
		Mz	0.07	0.06	0.05
	TB-450-B2	N	53.565	53.565	53.565
		Vy	-0.022	-0.022	-0.022
		Vz	-69.022	-69.022	-69.022
		Mt	0.08	0.08	0.08
		My	-2.67	5.96	14.59
		Mz	0.00	0.00	0.00
	TB-450-C1	N	91.426	91.426	91.426
		Vy	-0.987	-0.987	-0.987
		Vz	-113.953	-113.953	-113.953
		Mt	0.01	0.01	0.01
		My	-3.22	11.02	25.27
		Mz	-0.32	-0.19	-0.07
	TB-450-C2	N	41.632	41.632	41.632
		Vy	-0.789	-0.789	-0.789

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-48.384	-48.384	-48.384
		Mt	-0.23	-0.23	-0.23
		My	-1.40	4.65	10.70
		Mz	-0.24	-0.14	-0.04
	TB-450-D1	N	56.327	56.327	56.327
		Vy	0.221	0.221	0.221
		Vz	-41.614	-41.614	-41.614
		Mt	-0.22	-0.22	-0.22
		My	12.86	18.06	23.26
		Mz	-0.23	-0.26	-0.28
	TB-450-D2	N	127.562	127.562	127.562
		Vy	0.230	0.230	0.230
		Vz	-97.725	-97.725	-97.725
		Mt	-0.02	-0.02	-0.02
		My	30.48	42.70	54.91
		Mz	0.54	0.51	0.48
	TB-450-E1	N	27.641	27.641	27.641
		Vy	-0.140	-0.140	-0.140
		Vz	8.623	8.623	8.623
		Mt	0.02	0.02	0.02
		My	11.84	10.77	9.69
		Mz	-0.03	-0.01	0.01
	TB-450-E2	N	77.953	77.953	77.953
		Vy	-0.183	-0.183	-0.183
		Vz	23.626	23.626	23.626
		Mt	0.17	0.17	0.17
		My	28.69	25.74	22.79
		Mz	-0.83	-0.81	-0.79

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N202/N64	Peso próprio	N	203.811	203.893	203.975	204.057	204.139	204.221	204.302

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211
		Vz	-12.137	-11.465	-10.794	-10.123	-9.452	-8.781	-8.110
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	13.55	15.77	17.86	19.83	21.67	23.38	24.97
		Mz	-0.14	-0.11	-0.07	-0.03	0.01	0.05	0.09
	Guarda Corpo	N	57.463	57.463	57.463	57.463	57.463	57.463	57.463
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	-2.362	-2.362	-2.362	-2.362	-2.362	-2.362	-2.362
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.43	4.88	5.32	5.76	6.21	6.65	7.10
		Mz	-0.04	-0.03	-0.03	-0.02	-0.01	0.00	0.01
	Laje	N	427.756	427.756	427.756	427.756	427.756	427.756	427.756
		Vy	-0.685	-0.685	-0.685	-0.685	-0.685	-0.685	-0.685
		Vz	-17.528	-17.528	-17.528	-17.528	-17.528	-17.528	-17.528
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	32.91	36.21	39.51	42.81	46.10	49.40	52.70
		Mz	-0.36	-0.23	-0.10	0.03	0.16	0.28	0.41
	Pavimentação	N	234.710	234.710	234.710	234.710	234.710	234.710	234.710
		Vy	-0.397	-0.397	-0.397	-0.397	-0.397	-0.397	-0.397
		Vz	-9.631	-9.631	-9.631	-9.631	-9.631	-9.631	-9.631
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	17.89	19.70	21.51	23.32	25.14	26.95	28.76
		Mz	-0.20	-0.12	-0.05	0.03	0.10	0.17	0.25
	Recapeamento	N	106.159	106.159	106.159	106.159	106.159	106.159	106.159
		Vy	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176
		Vz	-4.349	-4.349	-4.349	-4.349	-4.349	-4.349	-4.349
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.16	8.98	9.80	10.62	11.43	12.25	13.07
		Mz	-0.09	-0.06	-0.02	0.01	0.04	0.08	0.11
	Vento 0	N	-62.293	-62.293	-62.293	-62.293	-62.293	-62.293	-62.293
		Vy	5.176	5.176	5.176	5.176	5.176	5.176	5.176
		Vz	1.051	1.051	1.051	1.051	1.051	1.051	1.051
		Mt	0.21	0.21	0.21	0.21	0.21	0.21	0.21
		My	1.70	1.50	1.30	1.11	0.91	0.71	0.51

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.12	-1.09	-2.06	-3.04	-4.01	-4.98	-5.96
	Vento 180	N	62.234	62.312	62.389	62.467	62.544	62.622	62.700
		Vy	-3.349	-3.620	-3.891	-4.162	-4.433	-4.705	-4.976
		Vz	-1.656	-1.666	-1.675	-1.685	-1.694	-1.704	-1.713
		Mt	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
		My	-2.45	-2.14	-1.83	-1.51	-1.19	-0.87	-0.55
		Mz	0.63	1.29	1.99	2.75	3.56	4.42	5.33
	Multidão (Passeio)	N	74.341	74.341	74.341	74.341	74.341	74.341	74.341
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-3.068	-3.068	-3.068	-3.068	-3.068	-3.068	-3.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.75	6.33	6.91	7.48	8.06	8.64	9.21
		Mz	-0.05	-0.05	-0.05	-0.05	-0.06	-0.06	-0.06
	Multidão - TB450	N	244.553	244.553	244.553	244.553	244.553	244.553	244.553
		Vy	-0.580	-0.580	-0.580	-0.580	-0.580	-0.580	-0.580
		Vz	-9.991	-9.991	-9.991	-9.991	-9.991	-9.991	-9.991
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	18.75	20.63	22.51	24.39	26.27	28.15	30.03
		Mz	-0.23	-0.12	-0.01	0.10	0.21	0.32	0.43
	TB-450-A1	N	10.481	10.481	10.481	10.481	10.481	10.481	10.481
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	-0.451	-0.451	-0.451	-0.451	-0.451	-0.451	-0.451
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.76	-0.67	-0.59	-0.50	-0.42	-0.33	-0.25
		Mz	0.01	-0.01	-0.03	-0.05	-0.08	-0.10	-0.12
	TB-450-A2	N	25.676	25.676	25.676	25.676	25.676	25.676	25.676
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.84	-1.63	-1.43	-1.22	-1.02	-0.81	-0.60
		Mz	0.00	-0.02	-0.04	-0.06	-0.08	-0.10	-0.12
	TB-450-B1	N	33.095	33.095	33.095	33.095	33.095	33.095	33.095
		Vy	0.052	0.052	0.052	0.052	0.052	0.052	0.052
		Vz	-1.417	-1.417	-1.417	-1.417	-1.417	-1.417	-1.417

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.31	-2.05	-1.78	-1.51	-1.25	-0.98	-0.72
		Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.02
	TB-450-B2	N	75.782	75.782	75.782	75.782	75.782	75.782	75.782
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-3.305	-3.305	-3.305	-3.305	-3.305	-3.305	-3.305
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.44	-4.82	-4.20	-3.58	-2.96	-2.34	-1.71
		Mz	0.02	0.02	0.03	0.03	0.03	0.03	0.03
	TB-450-C1	N	127.596	127.596	127.596	127.596	127.596	127.596	127.596
		Vy	-0.987	-0.987	-0.987	-0.987	-0.987	-0.987	-0.987
		Vz	-6.895	-6.895	-6.895	-6.895	-6.895	-6.895	-6.895
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-7.32	-6.03	-4.73	-3.43	-2.14	-0.84	0.46
		Mz	-0.07	0.11	0.30	0.48	0.67	0.86	1.04
	TB-450-C2	N	56.994	56.994	56.994	56.994	56.994	56.994	56.994
		Vy	-0.823	-0.823	-0.823	-0.823	-0.823	-0.823	-0.823
		Vz	-2.912	-2.912	-2.912	-2.912	-2.912	-2.912	-2.912
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-3.14	-2.59	-2.05	-1.50	-0.95	-0.40	0.15
		Mz	-0.10	0.05	0.21	0.36	0.52	0.67	0.83
	TB-450-D1	N	68.600	68.600	68.600	68.600	68.600	68.600	68.600
		Vy	0.190	0.190	0.190	0.190	0.190	0.190	0.190
		Vz	-6.548	-6.548	-6.548	-6.548	-6.548	-6.548	-6.548
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	10.87	12.10	13.33	14.56	15.79	17.02	18.26
		Mz	-0.34	-0.37	-0.41	-0.44	-0.48	-0.51	-0.55
	TB-450-D2	N	156.381	156.381	156.381	156.381	156.381	156.381	156.381
		Vy	0.224	0.224	0.224	0.224	0.224	0.224	0.224
		Vz	-15.407	-15.407	-15.407	-15.407	-15.407	-15.407	-15.407
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.78	28.68	31.58	34.48	37.38	40.27	43.17
		Mz	0.47	0.43	0.39	0.35	0.31	0.26	0.22
	TB-450-E1	N	26.194	26.194	26.194	26.194	26.194	26.194	26.194

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135
		Vz	3.229	3.229	3.229	3.229	3.229	3.229	3.229
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.98	9.38	8.77	8.16	7.56	6.95	6.34
		Mz	0.01	0.04	0.06	0.09	0.11	0.14	0.16
	TB-450-E2	N	73.491	73.491	73.491	73.491	73.491	73.491	73.491
		Vy	-0.159	-0.159	-0.159	-0.159	-0.159	-0.159	-0.159
		Vz	7.803	7.803	7.803	7.803	7.803	7.803	7.803
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	24.42	22.96	21.49	20.02	18.55	17.09	15.62
		Mz	-0.75	-0.72	-0.69	-0.66	-0.63	-0.60	-0.57

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N64/N201	Peso próprio	N	204.302	204.384	204.466	204.548	204.630	204.712	204.794
		Vy	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211	-0.211
		Vz	-8.110	-7.439	-6.768	-6.097	-5.426	-4.755	-4.084
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	24.97	26.43	27.77	28.98	30.06	31.02	31.85
		Mz	0.09	0.13	0.17	0.21	0.25	0.29	0.33
	Guarda Corpo	N	57.463	57.463	57.463	57.463	57.463	57.463	57.463
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	-2.362	-2.362	-2.362	-2.362	-2.362	-2.362	-2.362
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.10	7.54	7.99	8.43	8.87	9.32	9.76
		Mz	0.01	0.02	0.03	0.04	0.04	0.05	0.06
	Laje	N	427.756	427.756	427.756	427.756	427.756	427.756	427.756
		Vy	-0.685	-0.685	-0.685	-0.685	-0.685	-0.685	-0.685
		Vz	-17.528	-17.528	-17.528	-17.528	-17.528	-17.528	-17.528
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	52.70	56.00	59.29	62.59	65.89	69.18	72.48
		Mz	0.41	0.54	0.67	0.80	0.93	1.06	1.19

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Pavimentação	N	234.710	234.710	234.710	234.710	234.710	234.710	234.710
		Vy	-0.397	-0.397	-0.397	-0.397	-0.397	-0.397	-0.397
		Vz	-9.631	-9.631	-9.631	-9.631	-9.631	-9.631	-9.631
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	28.76	30.57	32.38	34.19	36.01	37.82	39.63
		Mz	0.25	0.32	0.40	0.47	0.55	0.62	0.70
	Recapeamento	N	106.159	106.159	106.159	106.159	106.159	106.159	106.159
		Vy	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176	-0.176
		Vz	-4.349	-4.349	-4.349	-4.349	-4.349	-4.349	-4.349
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.07	13.89	14.71	15.53	16.34	17.16	17.98
		Mz	0.11	0.14	0.18	0.21	0.24	0.28	0.31
	Vento 0	N	-62.293	-62.293	-62.293	-62.293	-62.293	-62.293	-62.293
		Vy	5.176	5.176	5.176	5.176	5.176	5.176	5.176
		Vz	1.051	1.051	1.051	1.051	1.051	1.051	1.051
		Mt	0.21	0.21	0.21	0.21	0.21	0.21	0.21
		My	0.51	0.32	0.12	-0.08	-0.28	-0.47	-0.67
		Mz	-5.96	-6.93	-7.91	-8.88	-9.85	-10.83	-11.80
	Vento 180	N	62.700	62.777	62.855	62.932	63.010	63.087	63.165
		Vy	-4.976	-5.247	-5.518	-5.789	-6.060	-6.331	-6.602
		Vz	-1.713	-1.723	-1.732	-1.742	-1.751	-1.760	-1.770
		Mt	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
		My	-0.55	-0.23	0.10	0.42	0.75	1.08	1.41
		Mz	5.33	6.29	7.30	8.37	9.48	10.65	11.86
	Multidão (Passeio)	N	74.341	74.341	74.341	74.341	74.341	74.341	74.341
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-3.068	-3.068	-3.068	-3.068	-3.068	-3.068	-3.068
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.21	9.79	10.37	10.95	11.52	12.10	12.68
		Mz	-0.06	-0.06	-0.07	-0.07	-0.07	-0.07	-0.07
	Multidão - TB450	N	244.553	244.553	244.553	244.553	244.553	244.553	244.553
		Vy	-0.580	-0.580	-0.580	-0.580	-0.580	-0.580	-0.580
		Vz	-9.991	-9.991	-9.991	-9.991	-9.991	-9.991	-9.991
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	30.03	31.91	33.79	35.67	37.55	39.43	41.31
		Mz	0.43	0.54	0.64	0.75	0.86	0.97	1.08
	TB-450-A1	N	10.481	10.481	10.481	10.481	10.481	10.481	10.481
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	-0.451	-0.451	-0.451	-0.451	-0.451	-0.451	-0.451
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.25	-0.16	-0.08	0.01	0.09	0.18	0.26
		Mz	-0.12	-0.14	-0.16	-0.18	-0.20	-0.22	-0.25
	TB-450-A2	N	25.676	25.676	25.676	25.676	25.676	25.676	25.676
		Vy	0.113	0.113	0.113	0.113	0.113	0.113	0.113
		Vz	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095	-1.095
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.60	-0.40	-0.19	0.01	0.22	0.43	0.63
		Mz	-0.12	-0.15	-0.17	-0.19	-0.21	-0.23	-0.25
	TB-450-B1	N	33.095	33.095	33.095	33.095	33.095	33.095	33.095
		Vy	0.052	0.052	0.052	0.052	0.052	0.052	0.052
		Vz	-1.417	-1.417	-1.417	-1.417	-1.417	-1.417	-1.417
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.72	-0.45	-0.18	0.08	0.35	0.62	0.88
		Mz	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08
	TB-450-B2	N	75.782	75.782	75.782	75.782	75.782	75.782	75.782
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-3.305	-3.305	-3.305	-3.305	-3.305	-3.305	-3.305
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.71	-1.09	-0.47	0.15	0.77	1.39	2.02
		Mz	0.03	0.03	0.04	0.04	0.04	0.04	0.04
	TB-450-C1	N	127.596	127.596	127.596	127.596	127.596	127.596	127.596
		Vy	-0.987	-0.987	-0.987	-0.987	-0.987	-0.987	-0.987
		Vz	-6.895	-6.895	-6.895	-6.895	-6.895	-6.895	-6.895
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	0.46	1.76	3.05	4.35	5.65	6.94	8.24
		Mz	1.04	1.23	1.41	1.60	1.78	1.97	2.15
	TB-450-C2	N	56.994	56.994	56.994	56.994	56.994	56.994	56.994
		Vy	-0.823	-0.823	-0.823	-0.823	-0.823	-0.823	-0.823

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-2.912	-2.912	-2.912	-2.912	-2.912	-2.912	-2.912
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.15	0.69	1.24	1.79	2.34	2.88	3.43
		Mz	0.83	0.98	1.14	1.29	1.45	1.60	1.76
	TB-450-D1	N	68.600	68.600	68.600	68.600	68.600	68.600	68.600
		Vy	0.190	0.190	0.190	0.190	0.190	0.190	0.190
		Vz	-6.548	-6.548	-6.548	-6.548	-6.548	-6.548	-6.548
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	18.26	19.49	20.72	21.95	23.18	24.41	25.65
		Mz	-0.55	-0.59	-0.62	-0.66	-0.69	-0.73	-0.76
	TB-450-D2	N	156.381	156.381	156.381	156.381	156.381	156.381	156.381
		Vy	0.224	0.224	0.224	0.224	0.224	0.224	0.224
		Vz	-15.407	-15.407	-15.407	-15.407	-15.407	-15.407	-15.407
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	43.17	46.07	48.97	51.87	54.77	57.66	60.56
		Mz	0.22	0.18	0.14	0.09	0.05	0.01	-0.03
	TB-450-E1	N	26.194	26.194	26.194	26.194	26.194	26.194	26.194
		Vy	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135
		Vz	3.229	3.229	3.229	3.229	3.229	3.229	3.229
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.34	5.73	5.13	4.52	3.91	3.30	2.70
		Mz	0.16	0.19	0.21	0.24	0.27	0.29	0.32
	TB-450-E2	N	73.491	73.491	73.491	73.491	73.491	73.491	73.491
		Vy	-0.159	-0.159	-0.159	-0.159	-0.159	-0.159	-0.159
		Vz	7.803	7.803	7.803	7.803	7.803	7.803	7.803
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	15.62	14.15	12.68	11.21	9.75	8.28	6.81
		Mz	-0.57	-0.54	-0.51	-0.48	-0.45	-0.42	-0.39

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N201/N28	Peso próprio	N	215.918	215.972	216.027

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.210	-0.210	-0.210
		Vz	-110.334	-109.888	-109.442
		Mt	0.04	0.04	0.04
		My	4.89	18.66	32.36
		Mz	0.33	0.36	0.38
	Guarda Corpo	N	60.604	60.604	60.604
		Vy	-0.050	-0.050	-0.050
		Vz	-36.801	-36.801	-36.801
		Mt	0.03	0.03	0.03
		My	2.25	6.85	11.45
		Mz	0.06	0.07	0.08
	Laje	N	451.072	451.072	451.072
		Vy	-0.731	-0.731	-0.731
		Vz	-273.152	-273.152	-273.152
		Mt	0.32	0.32	0.32
		My	16.68	50.82	84.96
		Mz	1.19	1.29	1.38
	Pavimentação	N	247.538	247.538	247.538
		Vy	-0.423	-0.423	-0.423
		Vz	-150.171	-150.171	-150.171
		Mt	0.18	0.18	0.18
		My	8.92	27.69	46.46
		Mz	0.70	0.76	0.81
	Recapeamento	N	111.946	111.946	111.946
		Vy	-0.188	-0.188	-0.188
		Vz	-67.787	-67.787	-67.787
		Mt	0.08	0.08	0.08
		My	4.13	12.60	21.08
		Mz	0.31	0.33	0.36
	Vento 0	N	-64.449	-64.449	-64.449
		Vy	5.581	5.581	5.581
		Vz	22.017	22.017	22.017
		Mt	-2.65	-2.65	-2.65
		My	4.80	2.05	-0.70

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-11.87	-12.56	-13.26
	Vento 180	N	66.058	66.110	66.162
		Vy	-9.523	-9.703	-9.883
		Vz	-22.763	-22.769	-22.776
		Mt	2.59	2.59	2.59
		My	-4.98	-2.14	0.71
		Mz	11.91	13.11	14.33
	Multidão (Passeio)	N	78.417	78.417	78.417
		Vy	0.010	0.010	0.010
		Vz	-47.769	-47.769	-47.769
		Mt	0.01	0.01	0.01
		My	2.92	8.89	14.87
		Mz	-0.07	-0.08	-0.08
	Multidão - TB450	N	257.853	257.853	257.853
		Vy	-0.615	-0.615	-0.615
		Vz	-155.773	-155.773	-155.773
		Mt	0.24	0.24	0.24
		My	9.47	28.94	48.42
		Mz	1.09	1.16	1.24
	TB-450-A1	N	11.411	11.411	11.411
		Vy	0.115	0.115	0.115
		Vz	-9.790	-9.790	-9.790
		Mt	-0.01	-0.01	-0.01
		My	-2.08	-0.86	0.36
		Mz	-0.25	-0.26	-0.27
	TB-450-A2	N	27.933	27.933	27.933
		Vy	0.114	0.114	0.114
		Vz	-23.747	-23.747	-23.747
		Mt	-0.01	-0.01	-0.01
		My	-5.05	-2.08	0.88
		Mz	-0.25	-0.27	-0.28
	TB-450-B1	N	35.955	35.955	35.955
		Vy	0.046	0.046	0.046
		Vz	-30.121	-30.121	-30.121

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.04	0.04	0.04
		My	-6.32	-2.55	1.21
		Mz	-0.08	-0.08	-0.09
	TB-450-B2	N	82.501	82.501	82.501
		Vy	-0.002	-0.002	-0.002
		Vz	-70.764	-70.764	-70.764
		Mt	-0.05	-0.05	-0.05
		My	-14.90	-6.06	2.79
		Mz	0.04	0.04	0.04
	TB-450-C1	N	138.273	138.273	138.273
		Vy	-1.021	-1.021	-1.021
		Vz	-114.460	-114.460	-114.460
		Mt	0.25	0.25	0.25
		My	-18.52	-4.21	10.10
		Mz	2.16	2.29	2.42
	TB-450-C2	N	61.533	61.533	61.533
		Vy	-0.871	-0.871	-0.871
		Vz	-48.560	-48.560	-48.560
		Mt	0.33	0.33	0.33
		My	-7.95	-1.88	4.19
		Mz	1.77	1.87	1.98
	TB-450-D1	N	71.583	71.583	71.583
		Vy	0.177	0.177	0.177
		Vz	-46.052	-46.052	-46.052
		Mt	0.06	0.06	0.06
		My	19.27	25.03	30.79
		Mz	-0.76	-0.78	-0.81
	TB-450-D2	N	163.371	163.371	163.371
		Vy	0.224	0.224	0.224
		Vz	-108.226	-108.226	-108.226
		Mt	0.01	0.01	0.01
		My	45.66	59.18	72.71
		Mz	-0.03	-0.06	-0.09
	TB-450-E1	N	25.712	25.712	25.712

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.132	-0.132	-0.132
		Vz	7.882	7.882	7.882
		Mt	-0.03	-0.03	-0.03
		My	4.04	3.06	2.07
		Mz	0.32	0.33	0.35
	TB-450-E2	N	72.005	72.005	72.005
		Vy	-0.152	-0.152	-0.152
		Vz	22.419	22.419	22.419
		Mt	-0.02	-0.02	-0.02
		My	10.87	8.07	5.27
		Mz	-0.39	-0.37	-0.35

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N28/N200	Peso próprio	N	216.792	216.846	216.900
		Vy	1.400	1.400	1.400
		Vz	-96.814	-96.368	-95.922
		Mt	0.09	0.09	0.09
		My	31.92	44.00	56.01
		Mz	0.31	0.13	-0.04
	Guarda Corpo	N	62.423	62.423	62.423
		Vy	0.418	0.418	0.418
		Vz	-21.573	-21.573	-21.573
		Mt	0.01	0.01	0.01
		My	10.89	13.58	16.28
		Mz	0.06	0.01	-0.04
	Laje	N	464.599	464.599	464.599
		Vy	4.776	4.776	4.776
		Vz	-159.959	-159.959	-159.959
		Mt	0.06	0.06	0.06
		My	80.77	100.77	120.76
		Mz	1.26	0.67	0.07

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	254.911	254.911	254.911
		Vy	2.727	2.727	2.727
		Vz	-88.400	-88.400	-88.400
		Mt	0.04	0.04	0.04
		My	44.17	55.22	66.27
		Mz	0.74	0.40	0.06
	Recapeamento	N	115.301	115.301	115.301
		Vy	1.217	1.217	1.217
		Vz	-39.709	-39.709	-39.709
		Mt	0.02	0.02	0.02
		My	20.04	25.00	29.96
		Mz	0.33	0.18	0.02
	Vento 0	N	-79.668	-79.668	-79.668
		Vy	0.716	0.716	0.716
		Vz	21.204	21.204	21.204
		Mt	1.37	1.37	1.37
		My	0.17	-2.48	-5.13
		Mz	-14.53	-14.62	-14.71
	Vento 180	N	79.318	79.369	79.421
		Vy	3.094	2.914	2.733
		Vz	-21.680	-21.686	-21.692
		Mt	-1.51	-1.51	-1.51
		My	-0.18	2.53	5.24
		Mz	15.33	14.95	14.60
	Multidão (Passeio)	N	80.774	80.774	80.774
		Vy	0.187	0.187	0.187
		Vz	-28.025	-28.025	-28.025
		Mt	0.01	0.01	0.01
		My	14.14	17.65	21.15
		Mz	-0.08	-0.11	-0.13
	Multidão - TB450	N	265.573	265.573	265.573
		Vy	3.656	3.656	3.656
		Vz	-91.199	-91.199	-91.199
		Mt	0.04	0.04	0.04

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	46.01	57.41	68.81
		Mz	1.16	0.70	0.24
	TB-450-A1	N	11.346	11.346	11.346
		Vy	0.003	0.003	0.003
		Vz	-9.797	-9.797	-9.797
		Mt	0.01	0.01	0.01
		My	0.37	1.59	2.82
		Mz	-0.28	-0.28	-0.28
	TB-450-A2	N	27.916	27.916	27.916
		Vy	-0.011	-0.011	-0.011
		Vz	-23.752	-23.752	-23.752
		Mt	-0.01	-0.01	-0.01
		My	0.89	3.85	6.82
		Mz	-0.28	-0.27	-0.27
	TB-450-B1	N	36.170	36.170	36.170
		Vy	0.129	0.129	0.129
		Vz	-30.109	-30.109	-30.109
		Mt	-0.02	-0.02	-0.02
		My	1.20	4.96	8.73
		Mz	-0.07	-0.08	-0.10
	TB-450-B2	N	82.168	82.168	82.168
		Vy	-0.160	-0.160	-0.160
		Vz	-70.778	-70.778	-70.778
		Mt	0.04	0.04	0.04
		My	2.81	11.65	20.50
		Mz	0.02	0.04	0.06
	TB-450-C1	N	137.385	137.385	137.385
		Vy	5.473	5.473	5.473
		Vz	-114.271	-114.271	-114.271
		Mt	0.11	0.11	0.11
		My	10.07	24.35	38.64
		Mz	2.23	1.54	0.86
	TB-450-C2	N	61.879	61.879	61.879
		Vy	4.431	4.431	4.431

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-48.357	-48.357	-48.357
		Mt	-0.02	-0.02	-0.02
		My	4.11	10.16	16.20
		Mz	1.91	1.36	0.81
	TB-450-D1	N	78.653	78.653	78.653
		Vy	-0.625	-0.625	-0.625
		Vz	5.522	5.522	5.522
		Mt	-0.11	-0.11	-0.11
		My	28.86	28.17	27.48
		Mz	-0.71	-0.63	-0.56
	TB-450-D2	N	178.070	178.070	178.070
		Vy	0.052	0.052	0.052
		Vz	13.857	13.857	13.857
		Mt	0.02	0.02	0.02
		My	68.25	66.51	64.78
		Mz	-0.09	-0.09	-0.10
	TB-450-E1	N	25.525	25.525	25.525
		Vy	0.121	0.121	0.121
		Vz	7.900	7.900	7.900
		Mt	0.02	0.02	0.02
		My	2.08	1.10	0.11
		Mz	0.32	0.31	0.29
	TB-450-E2	N	71.758	71.758	71.758
		Vy	-0.263	-0.263	-0.263
		Vz	22.425	22.425	22.425
		Mt	0.08	0.08	0.08
		My	5.29	2.48	-0.32
		Mz	-0.39	-0.35	-0.32

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N200/N63	Peso próprio	N	245.819	245.901	245.983	246.065	246.147	246.228	246.310

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	1.392	1.392	1.392	1.392	1.392	1.392	1.392
		Vz	-8.719	-8.048	-7.377	-6.706	-6.035	-5.364	-4.693
		Mt	0.19	0.19	0.19	0.19	0.19	0.19	0.19
		My	29.46	31.03	32.49	33.81	35.01	36.08	37.03
		Mz	-0.07	-0.33	-0.59	-0.85	-1.11	-1.38	-1.64
	Guarda Corpo	N	69.554	69.554	69.554	69.554	69.554	69.554	69.554
		Vy	0.415	0.415	0.415	0.415	0.415	0.415	0.415
		Vz	-1.218	-1.218	-1.218	-1.218	-1.218	-1.218	-1.218
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	9.00	9.23	9.46	9.69	9.92	10.15	10.38
		Mz	-0.05	-0.13	-0.20	-0.28	-0.36	-0.44	-0.52
	Laje	N	517.561	517.561	517.561	517.561	517.561	517.561	517.561
		Vy	4.740	4.740	4.740	4.740	4.740	4.740	4.740
		Vz	-8.763	-8.763	-8.763	-8.763	-8.763	-8.763	-8.763
		Mt	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		My	66.74	68.39	70.04	71.68	73.33	74.98	76.63
		Mz	-0.04	-0.93	-1.82	-2.71	-3.60	-4.50	-5.39
	Pavimentação	N	284.146	284.146	284.146	284.146	284.146	284.146	284.146
		Vy	2.707	2.707	2.707	2.707	2.707	2.707	2.707
		Vz	-4.907	-4.907	-4.907	-4.907	-4.907	-4.907	-4.907
		Mt	0.27	0.27	0.27	0.27	0.27	0.27	0.27
		My	36.48	37.41	38.33	39.25	40.18	41.10	42.02
		Mz	0.00	-0.51	-1.02	-1.53	-2.04	-2.55	-3.06
	Recapeamento	N	128.449	128.449	128.449	128.449	128.449	128.449	128.449
		Vy	1.208	1.208	1.208	1.208	1.208	1.208	1.208
		Vz	-2.173	-2.173	-2.173	-2.173	-2.173	-2.173	-2.173
		Mt	0.12	0.12	0.12	0.12	0.12	0.12	0.12
		My	16.55	16.96	17.37	17.78	18.19	18.60	19.01
		Mz	0.00	-0.23	-0.46	-0.68	-0.91	-1.14	-1.37
	Vento 0	N	-87.534	-87.534	-87.534	-87.534	-87.534	-87.534	-87.534
		Vy	1.283	1.283	1.283	1.283	1.283	1.283	1.283
		Vz	-2.411	-2.411	-2.411	-2.411	-2.411	-2.411	-2.411
		Mt	-2.53	-2.53	-2.53	-2.53	-2.53	-2.53	-2.53
		My	1.78	2.23	2.69	3.14	3.59	4.05	4.50

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-13.71	-13.95	-14.19	-14.44	-14.68	-14.92	-15.16
	Vento 180	N	88.098	88.176	88.253	88.331	88.408	88.486	88.564
		Vy	-0.470	-0.741	-1.012	-1.283	-1.554	-1.825	-2.097
		Vz	1.990	1.980	1.971	1.961	1.952	1.942	1.933
		Mt	2.70	2.70	2.70	2.70	2.70	2.70	2.70
		My	-2.67	-3.05	-3.42	-3.79	-4.16	-4.52	-4.89
		Mz	13.73	13.84	14.01	14.22	14.49	14.81	15.18
	Multidão (Passeio)	N	90.021	90.021	90.021	90.021	90.021	90.021	90.021
		Vy	0.185	0.185	0.185	0.185	0.185	0.185	0.185
		Vz	-1.636	-1.636	-1.636	-1.636	-1.636	-1.636	-1.636
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	11.71	12.02	12.32	12.63	12.94	13.25	13.56
		Mz	-0.13	-0.17	-0.20	-0.24	-0.27	-0.31	-0.34
	Multidão - TB450	N	295.810	295.810	295.810	295.810	295.810	295.810	295.810
		Vy	3.628	3.628	3.628	3.628	3.628	3.628	3.628
		Vz	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860
		Mt	0.36	0.36	0.36	0.36	0.36	0.36	0.36
		My	37.98	38.90	39.81	40.73	41.64	42.55	43.47
		Mz	0.16	-0.52	-1.21	-1.89	-2.57	-3.25	-3.94
	TB-450-A1	N	14.531	14.531	14.531	14.531	14.531	14.531	14.531
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-0.388	-0.388	-0.388	-0.388	-0.388	-0.388	-0.388
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-0.09	-0.01	0.06	0.13	0.20	0.28	0.35
		Mz	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.28
	TB-450-A2	N	35.650	35.650	35.650	35.650	35.650	35.650	35.650
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-0.899	-0.899	-0.899	-0.899	-0.899	-0.899	-0.899
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-0.23	-0.06	0.11	0.28	0.45	0.62	0.79
		Mz	-0.27	-0.27	-0.26	-0.26	-0.26	-0.26	-0.26
	TB-450-B1	N	45.940	45.940	45.940	45.940	45.940	45.940	45.940
		Vy	0.124	0.124	0.124	0.124	0.124	0.124	0.124
		Vz	-1.233	-1.233	-1.233	-1.233	-1.233	-1.233	-1.233

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.18	0.05	0.29	0.52	0.75	0.98	1.21
		Mz	-0.11	-0.13	-0.15	-0.18	-0.20	-0.22	-0.25
	TB-450-B2	N	105.149	105.149	105.149	105.149	105.149	105.149	105.149
		Vy	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155
		Vz	-2.858	-2.858	-2.858	-2.858	-2.858	-2.858	-2.858
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.44	0.09	0.63	1.17	1.71	2.25	2.78
		Mz	0.07	0.10	0.12	0.15	0.18	0.21	0.24
	TB-450-C1	N	171.358	171.358	171.358	171.358	171.358	171.358	171.358
		Vy	5.449	5.449	5.449	5.449	5.449	5.449	5.449
		Vz	-13.850	-13.850	-13.850	-13.850	-13.850	-13.850	-13.850
		Mt	0.47	0.47	0.47	0.47	0.47	0.47	0.47
		My	7.35	9.96	12.56	15.17	17.77	20.38	22.98
		Mz	0.76	-0.26	-1.29	-2.31	-3.34	-4.36	-5.39
	TB-450-C2	N	76.393	76.393	76.393	76.393	76.393	76.393	76.393
		Vy	4.387	4.387	4.387	4.387	4.387	4.387	4.387
		Vz	-5.416	-5.416	-5.416	-5.416	-5.416	-5.416	-5.416
		Mt	0.43	0.43	0.43	0.43	0.43	0.43	0.43
		My	2.87	3.89	4.91	5.92	6.94	7.96	8.98
		Mz	0.69	-0.14	-0.96	-1.79	-2.61	-3.44	-4.26
	TB-450-D1	N	78.586	78.586	78.586	78.586	78.586	78.586	78.586
		Vy	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641
		Vz	2.897	2.897	2.897	2.897	2.897	2.897	2.897
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	25.14	24.59	24.05	23.50	22.96	22.41	21.87
		Mz	-0.58	-0.46	-0.34	-0.22	-0.10	0.02	0.14
	TB-450-D2	N	177.713	177.713	177.713	177.713	177.713	177.713	177.713
		Vy	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Vz	7.055	7.055	7.055	7.055	7.055	7.055	7.055
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	59.42	58.10	56.77	55.44	54.12	52.79	51.46
		Mz	-0.09	-0.10	-0.11	-0.12	-0.13	-0.14	-0.15
	TB-450-E1	N	22.993	22.993	22.993	22.993	22.993	22.993	22.993

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	0.123	0.123	0.123	0.123	0.123	0.123	0.123
		Vz	0.398	0.398	0.398	0.398	0.398	0.398	0.398
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	2.33	2.26	2.18	2.11	2.03	1.96	1.88
		Mz	0.29	0.27	0.25	0.22	0.20	0.18	0.15
	TB-450-E2	N	64.538	64.538	64.538	64.538	64.538	64.538	64.538
		Vy	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257
		Vz	1.051	1.051	1.051	1.051	1.051	1.051	1.051
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	6.05	5.85	5.65	5.46	5.26	5.06	4.86
		Mz	-0.31	-0.26	-0.21	-0.17	-0.12	-0.07	-0.02

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N63/N199	Peso próprio	N	246.310	246.392	246.474	246.556	246.638	246.720	246.802
		Vy	1.392	1.392	1.392	1.392	1.392	1.392	1.392
		Vz	-4.693	-4.022	-3.351	-2.679	-2.008	-1.337	-0.666
		Mt	0.19	0.19	0.19	0.19	0.19	0.19	0.19
		My	37.03	37.85	38.54	39.11	39.55	39.86	40.05
		Mz	-1.64	-1.90	-2.16	-2.42	-2.69	-2.95	-3.21
	Guarda Corpo	N	69.554	69.554	69.554	69.554	69.554	69.554	69.554
		Vy	0.415	0.415	0.415	0.415	0.415	0.415	0.415
		Vz	-1.218	-1.218	-1.218	-1.218	-1.218	-1.218	-1.218
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	10.38	10.61	10.83	11.06	11.29	11.52	11.75
		Mz	-0.52	-0.59	-0.67	-0.75	-0.83	-0.91	-0.98
	Laje	N	517.561	517.561	517.561	517.561	517.561	517.561	517.561
		Vy	4.740	4.740	4.740	4.740	4.740	4.740	4.740
		Vz	-8.763	-8.763	-8.763	-8.763	-8.763	-8.763	-8.763
		Mt	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		My	76.63	78.28	79.93	81.57	83.22	84.87	86.52
		Mz	-5.39	-6.28	-7.17	-8.06	-8.95	-9.85	-10.74

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Pavimentação	N	284.146	284.146	284.146	284.146	284.146	284.146	284.146
		Vy	2.707	2.707	2.707	2.707	2.707	2.707	2.707
		Vz	-4.907	-4.907	-4.907	-4.907	-4.907	-4.907	-4.907
		Mt	0.27	0.27	0.27	0.27	0.27	0.27	0.27
		My	42.02	42.95	43.87	44.79	45.71	46.64	47.56
		Mz	-3.06	-3.56	-4.07	-4.58	-5.09	-5.60	-6.11
	Recapeamento	N	128.449	128.449	128.449	128.449	128.449	128.449	128.449
		Vy	1.208	1.208	1.208	1.208	1.208	1.208	1.208
		Vz	-2.173	-2.173	-2.173	-2.173	-2.173	-2.173	-2.173
		Mt	0.12	0.12	0.12	0.12	0.12	0.12	0.12
		My	19.01	19.41	19.82	20.23	20.64	21.05	21.46
		Mz	-1.37	-1.59	-1.82	-2.05	-2.28	-2.50	-2.73
	Vento 0	N	-87.534	-87.534	-87.534	-87.534	-87.534	-87.534	-87.534
		Vy	1.283	1.283	1.283	1.283	1.283	1.283	1.283
		Vz	-2.411	-2.411	-2.411	-2.411	-2.411	-2.411	-2.411
		Mt	-2.53	-2.53	-2.53	-2.53	-2.53	-2.53	-2.53
		My	4.50	4.95	5.41	5.86	6.31	6.77	7.22
		Mz	-15.16	-15.40	-15.64	-15.88	-16.13	-16.37	-16.61
	Vento 180	N	88.564	88.641	88.719	88.796	88.874	88.951	89.029
		Vy	-2.097	-2.368	-2.639	-2.910	-3.181	-3.452	-3.723
		Vz	1.933	1.924	1.914	1.905	1.895	1.886	1.876
		Mt	2.70	2.70	2.70	2.70	2.70	2.70	2.70
		My	-4.89	-5.25	-5.61	-5.97	-6.33	-6.68	-7.04
		Mz	15.18	15.60	16.07	16.59	17.16	17.78	18.46
	Multidão (Passeio)	N	90.021	90.021	90.021	90.021	90.021	90.021	90.021
		Vy	0.185	0.185	0.185	0.185	0.185	0.185	0.185
		Vz	-1.636	-1.636	-1.636	-1.636	-1.636	-1.636	-1.636
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	13.56	13.86	14.17	14.48	14.79	15.09	15.40
		Mz	-0.34	-0.38	-0.41	-0.45	-0.48	-0.52	-0.55
	Multidão - TB450	N	295.810	295.810	295.810	295.810	295.810	295.810	295.810
		Vy	3.628	3.628	3.628	3.628	3.628	3.628	3.628
		Vz	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860	-4.860
		Mt	0.36	0.36	0.36	0.36	0.36	0.36	0.36

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	43.47	44.38	45.30	46.21	47.13	48.04	48.95
		Mz	-3.94	-4.62	-5.30	-5.98	-6.67	-7.35	-8.03
	TB-450-A1	N	14.531	14.531	14.531	14.531	14.531	14.531	14.531
		Vy	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Vz	-0.388	-0.388	-0.388	-0.388	-0.388	-0.388	-0.388
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	0.35	0.42	0.50	0.57	0.64	0.72	0.79
		Mz	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
	TB-450-A2	N	35.650	35.650	35.650	35.650	35.650	35.650	35.650
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-0.899	-0.899	-0.899	-0.899	-0.899	-0.899	-0.899
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	0.79	0.96	1.13	1.30	1.47	1.64	1.80
		Mz	-0.26	-0.26	-0.26	-0.25	-0.25	-0.25	-0.25
	TB-450-B1	N	45.940	45.940	45.940	45.940	45.940	45.940	45.940
		Vy	0.124	0.124	0.124	0.124	0.124	0.124	0.124
		Vz	-1.233	-1.233	-1.233	-1.233	-1.233	-1.233	-1.233
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.21	1.45	1.68	1.91	2.14	2.37	2.61
		Mz	-0.25	-0.27	-0.29	-0.32	-0.34	-0.36	-0.39
	TB-450-B2	N	105.149	105.149	105.149	105.149	105.149	105.149	105.149
		Vy	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155	-0.155
		Vz	-2.858	-2.858	-2.858	-2.858	-2.858	-2.858	-2.858
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	2.78	3.32	3.86	4.40	4.93	5.47	6.01
		Mz	0.24	0.27	0.30	0.33	0.36	0.39	0.42
	TB-450-C1	N	171.358	171.358	171.358	171.358	171.358	171.358	171.358
		Vy	5.449	5.449	5.449	5.449	5.449	5.449	5.449
		Vz	-13.850	-13.850	-13.850	-13.850	-13.850	-13.850	-13.850
		Mt	0.47	0.47	0.47	0.47	0.47	0.47	0.47
		My	22.98	25.59	28.19	30.80	33.40	36.01	38.62
		Mz	-5.39	-6.41	-7.44	-8.46	-9.49	-10.51	-11.54
	TB-450-C2	N	76.393	76.393	76.393	76.393	76.393	76.393	76.393
		Vy	4.387	4.387	4.387	4.387	4.387	4.387	4.387

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-5.416	-5.416	-5.416	-5.416	-5.416	-5.416	-5.416
		Mt	0.43	0.43	0.43	0.43	0.43	0.43	0.43
		My	8.98	10.00	11.02	12.04	13.06	14.08	15.09
		Mz	-4.26	-5.09	-5.91	-6.74	-7.56	-8.39	-9.21
	TB-450-D1	N	78.586	78.586	78.586	78.586	78.586	78.586	78.586
		Vy	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641	-0.641
		Vz	2.897	2.897	2.897	2.897	2.897	2.897	2.897
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	21.87	21.32	20.78	20.23	19.69	19.14	18.60
		Mz	0.14	0.26	0.38	0.50	0.62	0.74	0.86
	TB-450-D2	N	177.713	177.713	177.713	177.713	177.713	177.713	177.713
		Vy	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Vz	7.055	7.055	7.055	7.055	7.055	7.055	7.055
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	51.46	50.13	48.81	47.48	46.15	44.83	43.50
		Mz	-0.15	-0.16	-0.17	-0.18	-0.19	-0.20	-0.21
	TB-450-E1	N	22.993	22.993	22.993	22.993	22.993	22.993	22.993
		Vy	0.123	0.123	0.123	0.123	0.123	0.123	0.123
		Vz	0.398	0.398	0.398	0.398	0.398	0.398	0.398
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	1.88	1.81	1.73	1.66	1.59	1.51	1.44
		Mz	0.15	0.13	0.11	0.08	0.06	0.04	0.01
	TB-450-E2	N	64.538	64.538	64.538	64.538	64.538	64.538	64.538
		Vy	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257	-0.257
		Vz	1.051	1.051	1.051	1.051	1.051	1.051	1.051
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	4.86	4.67	4.47	4.27	4.07	3.87	3.68
		Mz	-0.02	0.03	0.08	0.12	0.17	0.22	0.27

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N199/N4	Peso próprio	N	253.297	253.351	253.405

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	1.070	1.070	1.070
		Vz	-66.190	-65.744	-65.298
		Mt	2.11	2.11	2.11
		My	25.17	33.42	41.61
		Mz	-3.16	-3.30	-3.43
	Guarda Corpo	N	71.315	71.315	71.315
		Vy	0.337	0.337	0.337
		Vz	-23.239	-23.239	-23.239
		Mt	0.52	0.52	0.52
		My	7.81	10.71	13.62
		Mz	-0.97	-1.02	-1.06
	Laje	N	530.659	530.659	530.659
		Vy	3.898	3.898	3.898
		Vz	-172.431	-172.431	-172.431
		Mt	5.66	5.66	5.66
		My	57.17	78.73	100.28
		Mz	-10.61	-11.10	-11.59
	Pavimentação	N	291.380	291.380	291.380
		Vy	2.229	2.229	2.229
		Vz	-95.239	-95.239	-95.239
		Mt	3.21	3.21	3.21
		My	31.34	43.25	55.15
		Mz	-6.04	-6.32	-6.60
	Recapeamento	N	131.701	131.701	131.701
		Vy	0.994	0.994	0.994
		Vz	-42.806	-42.806	-42.806
		Mt	1.44	1.44	1.44
		My	14.17	19.52	24.87
		Mz	-2.70	-2.82	-2.95
	Vento 0	N	-90.068	-90.068	-90.068
		Vy	6.046	6.046	6.046
		Vz	23.296	23.296	23.296
		Mt	-30.93	-30.93	-30.93
		My	13.93	11.02	8.11

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-17.30	-18.06	-18.81
	Vento 180	N	92.328	92.379	92.431
		Vy	-11.210	-11.390	-11.570
		Vz	-24.010	-24.017	-24.023
		Mt	32.31	32.31	32.31
		My	-14.76	-11.76	-8.76
		Mz	19.16	20.58	22.01
	Multidão (Passeio)	N	92.301	92.301	92.301
		Vy	0.141	0.141	0.141
		Vz	-30.167	-30.167	-30.167
		Mt	0.30	0.30	0.30
		My	10.31	14.08	17.85
		Mz	-0.54	-0.56	-0.58
	Multidão - TB450	N	303.298	303.298	303.298
		Vy	3.001	3.001	3.001
		Vz	-98.365	-98.365	-98.365
		Mt	4.22	4.22	4.22
		My	32.16	44.45	56.75
		Mz	-7.94	-8.31	-8.69
	TB-450-A1	N	15.467	15.467	15.467
		Vy	0.059	0.059	0.059
		Vz	-10.138	-10.138	-10.138
		Mt	-0.33	-0.33	-0.33
		My	-1.54	-0.28	0.99
		Mz	-0.29	-0.30	-0.31
	TB-450-A2	N	37.926	37.926	37.926
		Vy	0.046	0.046	0.046
		Vz	-24.594	-24.594	-24.594
		Mt	-0.35	-0.35	-0.35
		My	-3.87	-0.80	2.28
		Mz	-0.26	-0.26	-0.27
	TB-450-B1	N	48.800	48.800	48.800
		Vy	0.120	0.120	0.120
		Vz	-31.054	-31.054	-31.054

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.03	0.03	0.03
		My	-4.51	-0.63	3.25
		Mz	-0.39	-0.40	-0.42
	TB-450-B2	N	111.876	111.876	111.876
		Vy	-0.159	-0.159	-0.159
		Vz	-72.987	-72.987	-72.987
		Mt	0.03	0.03	0.03
		My	-10.74	-1.62	7.50
		Mz	0.42	0.44	0.46
	TB-450-C1	N	180.162	180.162	180.162
		Vy	4.635	4.635	4.635
		Vz	-117.362	-117.362	-117.362
		Mt	5.49	5.49	5.49
		My	17.96	32.63	47.30
		Mz	-11.42	-12.00	-12.58
	TB-450-C2	N	80.192	80.192	80.192
		Vy	3.625	3.625	3.625
		Vz	-49.784	-49.784	-49.784
		Mt	5.11	5.11	5.11
		My	6.12	12.34	18.56
		Mz	-9.10	-9.56	-10.01
	TB-450-D1	N	78.038	78.038	78.038
		Vy	-0.642	-0.642	-0.642
		Vz	1.907	1.907	1.907
		Mt	-0.01	-0.01	-0.01
		My	20.86	20.62	20.38
		Mz	0.86	0.94	1.02
	TB-450-D2	N	176.366	176.366	176.366
		Vy	0.067	0.067	0.067
		Vz	5.347	5.347	5.347
		Mt	-0.08	-0.08	-0.08
		My	48.96	48.30	47.63
		Mz	-0.22	-0.22	-0.23
	TB-450-E1	N	22.158	22.158	22.158

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.097	0.097	0.097
		Vz	8.407	8.407	8.407
		Mt	0.17	0.17	0.17
		My	3.58	2.53	1.48
		Mz	0.02	0.01	-0.01
	TB-450-E2	N	62.188	62.188	62.188
		Vy	-0.318	-0.318	-0.318
		Vz	23.634	23.634	23.634
		Mt	0.41	0.41	0.41
		My	9.70	6.74	3.79
		Mz	0.28	0.32	0.36

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N43/N172	Peso próprio	N	-161.119	-161.093	-161.066
		Vy	0.343	0.343	0.343
		Vz	-152.899	-152.600	-152.300
		Mt	0.04	0.04	0.04
		My	-0.77	18.33	37.38
		Mz	0.27	0.22	0.18
	Guarda Corpo	N	-43.700	-43.700	-43.700
		Vy	0.029	0.029	0.029
		Vz	-45.729	-45.729	-45.729
		Mt	0.01	0.01	0.01
		My	-0.39	5.33	11.05
		Mz	0.03	0.03	0.02
	Laje	N	-324.584	-324.584	-324.584
		Vy	0.249	0.249	0.249
		Vz	-339.653	-339.653	-339.653
		Mt	0.05	0.05	0.05
		My	-2.85	39.61	82.07
		Mz	0.23	0.20	0.17

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	-177.991	-177.991	-177.991
		Vy	0.139	0.139	0.139
		Vz	-186.392	-186.392	-186.392
		Mt	0.03	0.03	0.03
		My	-1.64	21.66	44.96
		Mz	0.13	0.11	0.09
	Recapeamento	N	-80.538	-80.538	-80.538
		Vy	0.062	0.062	0.062
		Vz	-84.282	-84.282	-84.282
		Mt	0.01	0.01	0.01
		My	-0.71	9.83	20.36
		Mz	0.06	0.05	0.04
	Vento 0	N	18.303	18.303	18.303
		Vy	-0.245	-0.245	-0.245
		Vz	18.062	18.062	18.062
		Mt	0.16	0.16	0.16
		My	0.98	-1.28	-3.54
		Mz	1.88	1.91	1.94
	Vento 180	N	-17.724	-17.755	-17.786
		Vy	-3.771	-3.663	-3.555
		Vz	-18.941	-18.938	-18.935
		Mt	-0.40	-0.40	-0.40
		My	-0.68	1.69	4.06
		Mz	-3.48	-3.01	-2.56
	Multidão (Passeio)	N	-56.689	-56.689	-56.689
		Vy	0.030	0.030	0.030
		Vz	-59.317	-59.317	-59.317
		Mt	0.01	0.01	0.01
		My	-0.50	6.91	14.33
		Mz	0.04	0.03	0.03
	Multidão - TB450	N	-185.158	-185.158	-185.158
		Vy	0.161	0.161	0.161
		Vz	-193.776	-193.776	-193.776
		Mt	0.03	0.03	0.03

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-1.63	22.60	46.82
		Mz	0.14	0.12	0.10
	TB-450-A1	N	-29.897	-29.897	-29.897
		Vy	-0.003	-0.003	-0.003
		Vz	-13.597	-13.597	-13.597
		Mt	0.01	0.01	0.01
		My	5.67	7.37	9.07
		Mz	0.07	0.07	0.07
	TB-450-A2	N	-72.168	-72.168	-72.168
		Vy	-0.032	-0.032	-0.032
		Vz	-32.166	-32.166	-32.166
		Mt	-0.02	-0.02	-0.02
		My	13.44	17.46	21.48
		Mz	-0.09	-0.08	-0.08
	TB-450-B1	N	-49.758	-49.758	-49.758
		Vy	0.061	0.061	0.061
		Vz	-59.494	-59.494	-59.494
		Mt	0.02	0.02	0.02
		My	-0.43	7.01	14.44
		Mz	0.15	0.14	0.13
	TB-450-B2	N	-119.689	-119.689	-119.689
		Vy	0.081	0.081	0.081
		Vz	-140.487	-140.487	-140.487
		Mt	0.01	0.01	0.01
		My	-1.10	16.47	34.03
		Mz	-0.03	-0.04	-0.05
	TB-450-C1	N	-88.828	-88.828	-88.828
		Vy	0.141	0.141	0.141
		Vz	-106.915	-106.915	-106.915
		Mt	0.01	0.01	0.01
		My	-8.42	4.94	18.31
		Mz	0.02	0.00	-0.02
	TB-450-C2	N	-36.824	-36.824	-36.824
		Vy	0.122	0.122	0.122

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-45.513	-45.513	-45.513
		Mt	0.03	0.03	0.03
		My	-3.52	2.17	7.86
		Mz	0.17	0.16	0.14
	TB-450-D1	N	-22.077	-22.077	-22.077
		Vy	0.013	0.013	0.013
		Vz	-27.488	-27.488	-27.488
		Mt	0.01	0.01	0.01
		My	-2.19	1.24	4.68
		Mz	0.10	0.10	0.10
	TB-450-D2	N	-53.627	-53.627	-53.627
		Vy	0.026	0.026	0.026
		Vz	-64.685	-64.685	-64.685
		Mt	0.00	0.00	0.00
		My	-5.26	2.83	10.92
		Mz	-0.02	-0.02	-0.02
	TB-450-E1	N	-6.550	-6.550	-6.550
		Vy	0.002	0.002	0.002
		Vz	-8.174	-8.174	-8.174
		Mt	0.00	0.00	0.00
		My	-0.65	0.37	1.39
		Mz	0.02	0.02	0.02
	TB-450-E2	N	-18.514	-18.514	-18.514
		Vy	0.010	0.010	0.010
		Vz	-22.321	-22.321	-22.321
		Mt	0.00	0.00	0.00
		My	-1.82	0.97	3.76
		Mz	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N172/N14	Peso próprio	N	-179.093	-179.054	-179.015	-178.976	-178.936	-178.897	-178.858
		Vy	0.340	0.340	0.340	0.340	0.340	0.340	0.340

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-9.028	-8.580	-8.132	-7.684	-7.235	-6.787	-6.339
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.43	4.08	5.65	7.13	8.53	9.84	11.07
		Mz	0.18	0.12	0.05	-0.01	-0.08	-0.14	-0.20
	Guarda Corpo	N	-49.165	-49.165	-49.165	-49.165	-49.165	-49.165	-49.165
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	-1.938	-1.938	-1.938	-1.938	-1.938	-1.938	-1.938
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.80	1.16	1.52	1.89	2.25	2.61	2.98
		Mz	0.02	0.02	0.01	0.01	0.00	0.00	-0.01
	Laje	N	-365.177	-365.177	-365.177	-365.177	-365.177	-365.177	-365.177
		Vy	0.242	0.242	0.242	0.242	0.242	0.242	0.242
		Vz	-14.398	-14.398	-14.398	-14.398	-14.398	-14.398	-14.398
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.94	8.64	11.34	14.03	16.73	19.43	22.12
		Mz	0.17	0.12	0.08	0.03	-0.01	-0.06	-0.10
	Pavimentação	N	-200.273	-200.273	-200.273	-200.273	-200.273	-200.273	-200.273
		Vy	0.134	0.134	0.134	0.134	0.134	0.134	0.134
		Vz	-7.903	-7.903	-7.903	-7.903	-7.903	-7.903	-7.903
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.17	4.65	6.13	7.61	9.09	10.57	12.05
		Mz	0.09	0.07	0.04	0.02	-0.01	-0.03	-0.06
	Recapeamento	N	-90.611	-90.611	-90.611	-90.611	-90.611	-90.611	-90.611
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	-3.573	-3.573	-3.573	-3.573	-3.573	-3.573	-3.573
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.47	2.14	2.81	3.48	4.15	4.82	5.49
		Mz	0.04	0.03	0.02	0.01	0.00	-0.01	-0.03
	Vento 0	N	20.506	20.506	20.506	20.506	20.506	20.506	20.506
		Vy	0.322	0.322	0.322	0.322	0.322	0.322	0.322
		Vz	0.592	0.592	0.592	0.592	0.592	0.592	0.592
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.66	0.54	0.43	0.32	0.21	0.10	-0.01
		Mz	1.93	1.87	1.81	1.75	1.69	1.63	1.57
	Vento 180	N	-20.767	-20.813	-20.860	-20.906	-20.953	-20.999	-21.046

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	-1.487	-1.325	-1.163	-1.001	-0.839	-0.677	-0.515
		Vz	-1.143	-1.139	-1.134	-1.130	-1.126	-1.122	-1.118
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.12	-0.90	-0.69	-0.48	-0.27	-0.06	0.15
		Mz	-2.57	-2.31	-2.08	-1.87	-1.70	-1.56	-1.45
	Multidão (Passeio)	N	-63.779	-63.779	-63.779	-63.779	-63.779	-63.779	-63.779
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	-2.513	-2.513	-2.513	-2.513	-2.513	-2.513	-2.513
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.03	1.50	1.97	2.45	2.92	3.39	3.86
		Mz	0.03	0.02	0.02	0.01	0.00	0.00	-0.01
	Multidão - TB450	N	-208.317	-208.317	-208.317	-208.317	-208.317	-208.317	-208.317
		Vy	0.153	0.153	0.153	0.153	0.153	0.153	0.153
		Vz	-8.217	-8.217	-8.217	-8.217	-8.217	-8.217	-8.217
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.39	4.93	6.47	8.00	9.54	11.08	12.62
		Mz	0.10	0.07	0.04	0.01	-0.02	-0.04	-0.07
	TB-450-A1	N	-31.267	-31.267	-31.267	-31.267	-31.267	-31.267	-31.267
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	0.852	0.852	0.852	0.852	0.852	0.852	0.852
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.84	6.68	6.52	6.36	6.21	6.05	5.89
		Mz	0.07	0.06	0.06	0.06	0.05	0.05	0.04
	TB-450-A2	N	-75.402	-75.402	-75.402	-75.402	-75.402	-75.402	-75.402
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	2.008	2.008	2.008	2.008	2.008	2.008	2.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	16.23	15.85	15.47	15.10	14.72	14.35	13.97
		Mz	-0.08	-0.08	-0.08	-0.08	-0.08	-0.07	-0.07
	TB-450-B1	N	-56.598	-56.598	-56.598	-56.598	-56.598	-56.598	-56.598
		Vy	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vz	-3.983	-3.983	-3.983	-3.983	-3.983	-3.983	-3.983
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.73	2.48	3.22	3.97	4.72	5.46	6.21
		Mz	0.13	0.12	0.11	0.10	0.09	0.08	0.07

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	TB-450-B2	N	-135.822	-135.822	-135.822	-135.822	-135.822	-135.822	-135.822
		Vy	0.049	0.049	0.049	0.049	0.049	0.049	0.049
		Vz	-9.426	-9.426	-9.426	-9.426	-9.426	-9.426	-9.426
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.07	5.84	7.60	9.37	11.13	12.90	14.66
		Mz	-0.05	-0.06	-0.07	-0.08	-0.09	-0.10	-0.11
	TB-450-C1	N	-102.257	-102.257	-102.257	-102.257	-102.257	-102.257	-102.257
		Vy	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Vz	-4.678	-4.678	-4.678	-4.678	-4.678	-4.678	-4.678
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.47	-6.60	-5.72	-4.85	-3.97	-3.09	-2.22
		Mz	-0.02	-0.04	-0.06	-0.08	-0.10	-0.12	-0.14
	TB-450-C2	N	-42.551	-42.551	-42.551	-42.551	-42.551	-42.551	-42.551
		Vy	0.118	0.118	0.118	0.118	0.118	0.118	0.118
		Vz	-1.988	-1.988	-1.988	-1.988	-1.988	-1.988	-1.988
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.14	-2.77	-2.40	-2.03	-1.65	-1.28	-0.91
		Mz	0.14	0.12	0.10	0.07	0.05	0.03	0.01
	TB-450-D1	N	-25.557	-25.557	-25.557	-25.557	-25.557	-25.557	-25.557
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.01	-1.80	-1.60	-1.39	-1.19	-0.99	-0.78
		Mz	0.10	0.09	0.09	0.08	0.08	0.07	0.07
	TB-450-D2	N	-61.795	-61.795	-61.795	-61.795	-61.795	-61.795	-61.795
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-2.575	-2.575	-2.575	-2.575	-2.575	-2.575	-2.575
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.76	-4.28	-3.79	-3.31	-2.83	-2.35	-1.87
		Mz	-0.02	-0.03	-0.03	-0.03	-0.03	-0.04	-0.04
	TB-450-E1	N	-7.586	-7.586	-7.586	-7.586	-7.586	-7.586	-7.586
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.60	-0.54	-0.48	-0.42	-0.36	-0.29	-0.23

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.02	0.02	0.02	0.02	0.02	0.01	0.01
	TB-450-E2	N	-21.333	-21.333	-21.333	-21.333	-21.333	-21.333	-21.333
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-0.884	-0.884	-0.884	-0.884	-0.884	-0.884	-0.884
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.65	-1.48	-1.32	-1.15	-0.98	-0.82	-0.65
		Mz	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N14/N173	Peso próprio	N	-178.858	-178.818	-178.779	-178.740	-178.700	-178.661	-178.622
		Vy	0.340	0.340	0.340	0.340	0.340	0.340	0.340
		Vz	-6.339	-5.890	-5.442	-4.994	-4.546	-4.097	-3.649
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.07	12.21	13.28	14.25	15.15	15.96	16.68
		Mz	-0.20	-0.27	-0.33	-0.39	-0.46	-0.52	-0.59
	Guarda Corpo	N	-49.165	-49.165	-49.165	-49.165	-49.165	-49.165	-49.165
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	-1.938	-1.938	-1.938	-1.938	-1.938	-1.938	-1.938
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.98	3.34	3.70	4.06	4.43	4.79	5.15
		Mz	-0.01	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04
	Laje	N	-365.177	-365.177	-365.177	-365.177	-365.177	-365.177	-365.177
		Vy	0.242	0.242	0.242	0.242	0.242	0.242	0.242
		Vz	-14.398	-14.398	-14.398	-14.398	-14.398	-14.398	-14.398
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.12	24.82	27.52	30.22	32.91	35.61	38.31
		Mz	-0.10	-0.15	-0.19	-0.24	-0.28	-0.33	-0.37
	Pavimentação	N	-200.273	-200.273	-200.273	-200.273	-200.273	-200.273	-200.273
		Vy	0.134	0.134	0.134	0.134	0.134	0.134	0.134
		Vz	-7.903	-7.903	-7.903	-7.903	-7.903	-7.903	-7.903
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.05	13.53	15.01	16.49	17.97	19.45	20.93
		Mz	-0.06	-0.08	-0.11	-0.13	-0.16	-0.18	-0.21

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Recapeamento	N	-90.611	-90.611	-90.611	-90.611	-90.611	-90.611	-90.611
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	-3.573	-3.573	-3.573	-3.573	-3.573	-3.573	-3.573
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.49	6.16	6.83	7.49	8.16	8.83	9.50
		Mz	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08	-0.09
	Vento 0	N	20.506	20.506	20.506	20.506	20.506	20.506	20.506
		Vy	0.322	0.322	0.322	0.322	0.322	0.322	0.322
		Vz	0.592	0.592	0.592	0.592	0.592	0.592	0.592
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.01	-0.12	-0.23	-0.34	-0.45	-0.56	-0.67
		Mz	1.57	1.51	1.45	1.39	1.32	1.26	1.20
	Vento 180	N	-21.046	-21.092	-21.139	-21.185	-21.232	-21.278	-21.325
		Vy	-0.515	-0.353	-0.191	-0.029	0.133	0.295	0.457
		Vz	-1.118	-1.114	-1.110	-1.106	-1.102	-1.098	-1.094
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.15	0.36	0.57	0.78	0.98	1.19	1.40
		Mz	-1.45	-1.37	-1.32	-1.29	-1.30	-1.34	-1.42
	Multidão (Passeio)	N	-63.779	-63.779	-63.779	-63.779	-63.779	-63.779	-63.779
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	-2.513	-2.513	-2.513	-2.513	-2.513	-2.513	-2.513
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.86	4.33	4.80	5.27	5.74	6.21	6.68
		Mz	-0.01	-0.01	-0.02	-0.03	-0.03	-0.04	-0.04
	Multidão - TB450	N	-208.317	-208.317	-208.317	-208.317	-208.317	-208.317	-208.317
		Vy	0.153	0.153	0.153	0.153	0.153	0.153	0.153
		Vz	-8.217	-8.217	-8.217	-8.217	-8.217	-8.217	-8.217
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.62	14.16	15.70	17.24	18.78	20.32	21.85
		Mz	-0.07	-0.10	-0.13	-0.16	-0.19	-0.22	-0.25
	TB-450-A1	N	-31.267	-31.267	-31.267	-31.267	-31.267	-31.267	-31.267
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	0.852	0.852	0.852	0.852	0.852	0.852	0.852
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.89	5.73	5.57	5.41	5.25	5.09	4.93

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.04	0.04	0.04	0.03	0.03	0.03	0.02
	TB-450-A2	N	-75.402	-75.402	-75.402	-75.402	-75.402	-75.402	-75.402
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	2.008	2.008	2.008	2.008	2.008	2.008	2.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.97	13.59	13.22	12.84	12.46	12.09	11.71
		Mz	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
	TB-450-B1	N	-56.598	-56.598	-56.598	-56.598	-56.598	-56.598	-56.598
		Vy	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vz	-3.983	-3.983	-3.983	-3.983	-3.983	-3.983	-3.983
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.21	6.95	7.70	8.45	9.19	9.94	10.68
		Mz	0.07	0.06	0.05	0.04	0.03	0.02	0.01
	TB-450-B2	N	-135.822	-135.822	-135.822	-135.822	-135.822	-135.822	-135.822
		Vy	0.049	0.049	0.049	0.049	0.049	0.049	0.049
		Vz	-9.426	-9.426	-9.426	-9.426	-9.426	-9.426	-9.426
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.66	16.43	18.19	19.96	21.72	23.49	25.25
		Mz	-0.11	-0.12	-0.13	-0.14	-0.15	-0.15	-0.16
	TB-450-C1	N	-102.257	-102.257	-102.257	-102.257	-102.257	-102.257	-102.257
		Vy	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Vz	-4.678	-4.678	-4.678	-4.678	-4.678	-4.678	-4.678
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.22	-1.34	-0.46	0.41	1.29	2.16	3.04
		Mz	-0.14	-0.16	-0.18	-0.20	-0.22	-0.24	-0.26
	TB-450-C2	N	-42.551	-42.551	-42.551	-42.551	-42.551	-42.551	-42.551
		Vy	0.118	0.118	0.118	0.118	0.118	0.118	0.118
		Vz	-1.988	-1.988	-1.988	-1.988	-1.988	-1.988	-1.988
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.91	-0.54	-0.17	0.21	0.58	0.95	1.32
		Mz	0.01	-0.01	-0.04	-0.06	-0.08	-0.10	-0.12
	TB-450-D1	N	-25.557	-25.557	-25.557	-25.557	-25.557	-25.557	-25.557
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091	-1.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	-0.78	-0.58	-0.37	-0.17	0.04	0.24	0.45
		Mz	0.07	0.06	0.06	0.05	0.05	0.04	0.04
	TB-450-D2	N	-61.795	-61.795	-61.795	-61.795	-61.795	-61.795	-61.795
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-2.575	-2.575	-2.575	-2.575	-2.575	-2.575	-2.575
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.87	-1.38	-0.90	-0.42	0.06	0.55	1.03
		Mz	-0.04	-0.04	-0.05	-0.05	-0.05	-0.06	-0.06
	TB-450-E1	N	-7.586	-7.586	-7.586	-7.586	-7.586	-7.586	-7.586
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323	-0.323
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.23	-0.17	-0.11	-0.05	0.01	0.07	0.13
		Mz	0.01	0.01	0.01	0.01	0.01	0.00	0.00
	TB-450-E2	N	-21.333	-21.333	-21.333	-21.333	-21.333	-21.333	-21.333
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-0.884	-0.884	-0.884	-0.884	-0.884	-0.884	-0.884
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.65	-0.49	-0.32	-0.16	0.01	0.17	0.34
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.04

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N173/N44	Peso próprio	N	-217.433	-217.407	-217.381
		Vy	0.350	0.350	0.350
		Vz	-129.883	-129.584	-129.285
		Mt	0.04	0.04	0.04
		My	-20.38	-4.16	12.02
		Mz	-0.59	-0.64	-0.68
	Guarda Corpo	N	-59.643	-59.643	-59.643
		Vy	0.030	0.030	0.030
		Vz	-35.867	-35.867	-35.867
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-5.20	-0.71	3.77
		Mz	-0.04	-0.05	-0.05
	Laje	N	-442.995	-442.995	-442.995
		Vy	0.242	0.242	0.242
		Vz	-266.381	-266.381	-266.381
		Mt	0.04	0.04	0.04
		My	-38.55	-5.25	28.04
		Mz	-0.38	-0.41	-0.44
	Pavimentação	N	-243.064	-243.064	-243.064
		Vy	0.134	0.134	0.134
		Vz	-146.487	-146.487	-146.487
		Mt	0.02	0.02	0.02
		My	-21.32	-3.00	15.31
		Mz	-0.21	-0.23	-0.25
	Recapeamento	N	-109.923	-109.923	-109.923
		Vy	0.060	0.060	0.060
		Vz	-66.110	-66.110	-66.110
		Mt	0.01	0.01	0.01
		My	-9.57	-1.31	6.96
		Mz	-0.10	-0.10	-0.11
	Vento 0	N	25.903	25.903	25.903
		Vy	0.957	0.957	0.957
		Vz	18.703	18.703	18.703
		Mt	-0.05	-0.05	-0.05
		My	4.33	2.00	-0.34
		Mz	1.26	1.14	1.02
	Vento 180	N	-27.536	-27.567	-27.598
		Vy	2.508	2.616	2.724
		Vz	-19.336	-19.333	-19.330
		Mt	0.37	0.37	0.37
		My	-4.60	-2.18	0.24
		Mz	-1.38	-1.70	-2.03
	Multidão (Passeio)	N	-77.371	-77.371	-77.371
		Vy	0.034	0.034	0.034

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-46.523	-46.523	-46.523
		Mt	0.00	0.00	0.00
		My	-6.74	-0.93	4.89
		Mz	-0.04	-0.05	-0.05
	Multidão - TB450	N	-252.721	-252.721	-252.721
		Vy	0.150	0.150	0.150
		Vz	-152.004	-152.004	-152.004
		Mt	0.03	0.03	0.03
		My	-22.00	-3.00	16.00
		Mz	-0.25	-0.27	-0.29
	TB-450-A1	N	-29.755	-29.755	-29.755
		Vy	0.039	0.039	0.039
		Vz	7.074	7.074	7.074
		Mt	0.01	0.01	0.01
		My	5.64	4.76	3.88
		Mz	0.02	0.02	0.01
	TB-450-A2	N	-71.793	-71.793	-71.793
		Vy	0.023	0.023	0.023
		Vz	16.826	16.826	16.826
		Mt	0.00	0.00	0.00
		My	13.44	11.33	9.23
		Mz	-0.07	-0.07	-0.07
	TB-450-B1	N	-67.947	-67.947	-67.947
		Vy	0.046	0.046	0.046
		Vz	-40.188	-40.188	-40.188
		Mt	0.01	0.01	0.01
		My	-0.71	4.31	9.33
		Mz	0.01	0.00	0.00
	TB-450-B2	N	-162.537	-162.537	-162.537
		Vy	0.020	0.020	0.020
		Vz	-94.636	-94.636	-94.636
		Mt	-0.01	-0.01	-0.01
		My	-1.59	10.24	22.07
		Mz	-0.16	-0.16	-0.17

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-C1	N	-135.535	-135.535	-135.535
		Vy	0.079	0.079	0.079
		Vz	-114.893	-114.893	-114.893
		Mt	0.01	0.01	0.01
		My	-28.53	-14.17	0.19
		Mz	-0.26	-0.27	-0.28
	TB-450-C2	N	-56.739	-56.739	-56.739
		Vy	0.119	0.119	0.119
		Vz	-48.982	-48.982	-48.982
		Mt	0.03	0.03	0.03
		My	-12.13	-6.01	0.11
		Mz	-0.13	-0.15	-0.16
	TB-450-D1	N	-34.269	-34.269	-34.269
		Vy	0.041	0.041	0.041
		Vz	-29.919	-29.919	-29.919
		Mt	0.01	0.01	0.01
		My	-7.84	-4.10	-0.36
		Mz	0.04	0.03	0.03
	TB-450-D2	N	-82.231	-82.231	-82.231
		Vy	0.005	0.005	0.005
		Vz	-70.209	-70.209	-70.209
		Mt	0.00	0.00	0.00
		My	-18.42	-9.64	-0.86
		Mz	-0.06	-0.06	-0.06
	TB-450-E1	N	-10.181	-10.181	-10.181
		Vy	0.015	0.015	0.015
		Vz	-8.911	-8.911	-8.911
		Mt	0.00	0.00	0.00
		My	-2.34	-1.23	-0.11
		Mz	0.00	0.00	0.00
	TB-450-E2	N	-28.390	-28.390	-28.390
		Vy	0.003	0.003	0.003
		Vz	-24.241	-24.241	-24.241
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-6.38	-3.35	-0.32
		Mz	-0.04	-0.04	-0.04

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N44/N174	Peso próprio	N	-213.484	-213.458	-213.432
		Vy	-0.504	-0.504	-0.504
		Vz	-120.482	-120.183	-119.884
		Mt	-0.02	-0.02	-0.02
		My	12.46	27.50	42.51
		Mz	-0.70	-0.63	-0.57
	Guarda Corpo	N	-59.195	-59.195	-59.195
		Vy	-0.019	-0.019	-0.019
		Vz	-35.868	-35.868	-35.868
		Mt	0.00	0.00	0.00
		My	3.81	8.29	12.77
		Mz	-0.05	-0.05	-0.05
	Laje	N	-439.657	-439.657	-439.657
		Vy	-0.196	-0.196	-0.196
		Vz	-266.392	-266.392	-266.392
		Mt	0.01	0.01	0.01
		My	28.30	61.60	94.89
		Mz	-0.45	-0.43	-0.40
	Pavimentação	N	-241.233	-241.233	-241.233
		Vy	-0.111	-0.111	-0.111
		Vz	-146.493	-146.493	-146.493
		Mt	0.00	0.00	0.00
		My	15.44	33.76	52.07
		Mz	-0.25	-0.24	-0.22
	Recapeamento	N	-109.095	-109.095	-109.095
		Vy	-0.050	-0.050	-0.050
		Vz	-66.113	-66.113	-66.113

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.00	0.00	0.00
		My	7.02	15.28	23.55
		Mz	-0.11	-0.11	-0.10
	Vento 0	N	28.868	28.868	28.868
		Vy	2.464	2.464	2.464
		Vz	18.741	18.741	18.741
		Mt	0.06	0.06	0.06
		My	-0.12	-2.46	-4.80
		Mz	1.04	0.74	0.43
	Vento 180	N	-28.367	-28.398	-28.429
		Vy	-6.295	-6.187	-6.078
		Vz	-19.557	-19.554	-19.552
		Mt	-0.31	-0.31	-0.31
		My	0.18	2.62	5.06
		Mz	-2.19	-1.41	-0.64
	Multidão (Passeio)	N	-76.792	-76.792	-76.792
		Vy	-0.012	-0.012	-0.012
		Vz	-46.524	-46.524	-46.524
		Mt	0.00	0.00	0.00
		My	4.93	10.75	16.56
		Mz	-0.05	-0.05	-0.05
	Multidão - TB450	N	-250.810	-250.810	-250.810
		Vy	-0.144	-0.144	-0.144
		Vz	-152.011	-152.011	-152.011
		Mt	0.00	0.00	0.00
		My	16.15	35.15	54.15
		Mz	-0.29	-0.28	-0.26
	TB-450-A1	N	-29.371	-29.371	-29.371
		Vy	0.008	0.008	0.008
		Vz	7.073	7.073	7.073
		Mt	0.01	0.01	0.01
		My	3.90	3.02	2.14
		Mz	0.01	0.01	0.01
	TB-450-A2	N	-71.410	-71.410	-71.410

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.004	0.004	0.004
		Vz	16.825	16.825	16.825
		Mt	0.00	0.00	0.00
		My	9.26	7.16	5.05
		Mz	-0.07	-0.07	-0.07
	TB-450-B1	N	-67.380	-67.380	-67.380
		Vy	0.000	0.000	0.000
		Vz	-40.189	-40.189	-40.189
		Mt	0.01	0.01	0.01
		My	9.38	14.40	19.42
		Mz	0.00	0.00	0.00
	TB-450-B2	N	-161.936	-161.936	-161.936
		Vy	0.047	0.047	0.047
		Vz	-94.635	-94.635	-94.635
		Mt	-0.01	-0.01	-0.01
		My	22.12	33.95	45.78
		Mz	-0.17	-0.17	-0.18
	TB-450-C1	N	-134.685	-134.685	-134.685
		Vy	-0.133	-0.133	-0.133
		Vz	-114.898	-114.898	-114.898
		Mt	0.00	0.00	0.00
		My	0.26	14.62	28.98
		Mz	-0.28	-0.27	-0.25
	TB-450-C2	N	-55.947	-55.947	-55.947
		Vy	-0.209	-0.209	-0.209
		Vz	-48.990	-48.990	-48.990
		Mt	0.01	0.01	0.01
		My	0.17	6.30	12.42
		Mz	-0.17	-0.14	-0.12
	TB-450-D1	N	-33.722	-33.722	-33.722
		Vy	-0.007	-0.007	-0.007
		Vz	-29.920	-29.920	-29.920
		Mt	0.00	0.00	0.00
		My	-0.32	3.42	7.16

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.02	0.03	0.03
	TB-450-D2	N	-81.629	-81.629	-81.629
		Vy	0.000	0.000	0.000
		Vz	-70.209	-70.209	-70.209
		Mt	0.00	0.00	0.00
		My	-0.82	7.96	16.73
		Mz	-0.06	-0.06	-0.06
	TB-450-E1	N	-10.015	-10.015	-10.015
		Vy	-0.020	-0.020	-0.020
		Vz	-8.912	-8.912	-8.912
		Mt	0.00	0.00	0.00
		My	-0.10	1.01	2.13
		Mz	0.00	0.00	0.00
	TB-450-E2	N	-28.168	-28.168	-28.168
		Vy	-0.034	-0.034	-0.034
		Vz	-24.242	-24.242	-24.242
		Mt	0.00	0.00	0.00
		My	-0.30	2.73	5.76
		Mz	-0.04	-0.03	-0.03

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N174/N26	Peso próprio	N	-227.627	-227.587	-227.548	-227.509	-227.469	-227.430	-227.391
		Vy	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504
		Vz	-6.239	-5.790	-5.342	-4.894	-4.445	-3.997	-3.549
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.61	15.74	16.78	17.74	18.61	19.40	20.11
		Mz	-0.57	-0.47	-0.38	-0.29	-0.19	-0.10	0.00
	Guarda Corpo	N	-63.510	-63.510	-63.510	-63.510	-63.510	-63.510	-63.510
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.63	4.81	5.00	5.18	5.36	5.55	5.73

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-0.05	-0.04	-0.04	-0.03	-0.03	-0.03	-0.02
	Laje	N	-471.691	-471.691	-471.691	-471.691	-471.691	-471.691	-471.691
		Vy	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239
		Vz	-7.379	-7.379	-7.379	-7.379	-7.379	-7.379	-7.379
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	34.41	35.80	37.18	38.56	39.94	41.32	42.71
		Mz	-0.40	-0.36	-0.31	-0.27	-0.22	-0.18	-0.13
	Pavimentação	N	-258.853	-258.853	-258.853	-258.853	-258.853	-258.853	-258.853
		Vy	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135
		Vz	-4.091	-4.091	-4.091	-4.091	-4.091	-4.091	-4.091
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	18.79	19.56	20.33	21.09	21.86	22.63	23.39
		Mz	-0.22	-0.20	-0.17	-0.15	-0.12	-0.10	-0.07
	Recapeamento	N	-117.045	-117.045	-117.045	-117.045	-117.045	-117.045	-117.045
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	-1.834	-1.834	-1.834	-1.834	-1.834	-1.834	-1.834
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.54	8.88	9.22	9.57	9.91	10.25	10.60
		Mz	-0.10	-0.09	-0.08	-0.07	-0.06	-0.04	-0.03
	Vento 0	N	31.146	31.146	31.146	31.146	31.146	31.146	31.146
		Vy	2.932	2.932	2.932	2.932	2.932	2.932	2.932
		Vz	1.504	1.504	1.504	1.504	1.504	1.504	1.504
		Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
		My	-0.34	-0.62	-0.90	-1.18	-1.47	-1.75	-2.03
		Mz	0.42	-0.13	-0.68	-1.23	-1.78	-2.33	-2.88
	Vento 180	N	-31.461	-31.508	-31.554	-31.601	-31.647	-31.694	-31.740
		Vy	-3.901	-3.739	-3.578	-3.416	-3.254	-3.092	-2.930
		Vz	-2.148	-2.144	-2.140	-2.136	-2.132	-2.127	-2.123
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	-0.33	0.07	0.48	0.88	1.28	1.67	2.07
		Mz	-0.66	0.06	0.75	1.40	2.02	2.62	3.18
	Multidão (Passeio)	N	-82.390	-82.390	-82.390	-82.390	-82.390	-82.390	-82.390
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-1.258	-1.258	-1.258	-1.258	-1.258	-1.258	-1.258
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	6.00	6.23	6.47	6.70	6.94	7.17	7.41
		Mz	-0.05	-0.05	-0.05	-0.04	-0.04	-0.04	-0.04
	Multidão - TB450	N	-269.086	-269.086	-269.086	-269.086	-269.086	-269.086	-269.086
		Vy	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178
		Vz	-4.259	-4.259	-4.259	-4.259	-4.259	-4.259	-4.259
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	19.64	20.44	21.24	22.04	22.84	23.63	24.43
		Mz	-0.26	-0.22	-0.19	-0.16	-0.12	-0.09	-0.06
	TB-450-A1	N	-28.576	-28.576	-28.576	-28.576	-28.576	-28.576	-28.576
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	1.093	1.093	1.093	1.093	1.093	1.093	1.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.56	3.35	3.15	2.94	2.74	2.53	2.33
		Mz	0.01	0.00	0.00	-0.01	-0.01	-0.01	-0.02
	TB-450-A2	N	-69.515	-69.515	-69.515	-69.515	-69.515	-69.515	-69.515
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	2.575	2.575	2.575	2.575	2.575	2.575	2.575
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.44	7.96	7.48	7.00	6.52	6.03	5.55
		Mz	-0.07	-0.08	-0.08	-0.08	-0.09	-0.09	-0.10
	TB-450-B1	N	-71.660	-71.660	-71.660	-71.660	-71.660	-71.660	-71.660
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.96	12.09	12.21	12.33	12.46	12.58	12.70
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-172.005	-172.005	-172.005	-172.005	-172.005	-172.005	-172.005
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	-1.526	-1.526	-1.526	-1.526	-1.526	-1.526	-1.526
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	28.25	28.53	28.82	29.10	29.39	29.68	29.96
		Mz	-0.18	-0.18	-0.19	-0.19	-0.20	-0.20	-0.21
	TB-450-C1	N	-148.950	-148.950	-148.950	-148.950	-148.950	-148.950	-148.950
		Vy	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192
		Vz	-6.265	-6.265	-6.265	-6.265	-6.265	-6.265	-6.265

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	1.33	2.51	3.68	4.85	6.03	7.20	8.37
		Mz	-0.25	-0.21	-0.18	-0.14	-0.11	-0.07	-0.03
	TB-450-C2	N	-62.020	-62.020	-62.020	-62.020	-62.020	-62.020	-62.020
		Vy	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250
		Vz	-2.787	-2.787	-2.787	-2.787	-2.787	-2.787	-2.787
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.64	1.16	1.68	2.20	2.73	3.25	3.77
		Mz	-0.11	-0.07	-0.02	0.03	0.07	0.12	0.17
	TB-450-D1	N	-37.551	-37.551	-37.551	-37.551	-37.551	-37.551	-37.551
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.25	-0.09	0.07	0.23	0.40	0.56	0.72
		Mz	0.03	0.03	0.03	0.03	0.03	0.02	0.02
	TB-450-D2	N	-90.610	-90.610	-90.610	-90.610	-90.610	-90.610	-90.610
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-2.020	-2.020	-2.020	-2.020	-2.020	-2.020	-2.020
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.64	-0.27	0.11	0.49	0.87	1.25	1.63
		Mz	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.05
	TB-450-E1	N	-11.157	-11.157	-11.157	-11.157	-11.157	-11.157	-11.157
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.08	-0.03	0.01	0.06	0.11	0.16	0.20
		Mz	0.00	0.01	0.01	0.01	0.02	0.02	0.02
	TB-450-E2	N	-31.273	-31.273	-31.273	-31.273	-31.273	-31.273	-31.273
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-0.684	-0.684	-0.684	-0.684	-0.684	-0.684	-0.684
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.25	-0.12	0.01	0.14	0.27	0.39	0.52
		Mz	-0.03	-0.02	-0.02	-0.01	0.00	0.00	0.01

Esforços em barras, por hipóteses/ações

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N26/N176	Peso próprio	N	-227.391	-227.351	-227.312	-227.273	-227.233	-227.194	-227.155
		Vy	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504
		Vz	-3.549	-3.101	-2.652	-2.204	-1.756	-1.307	-0.859
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.11	20.73	21.27	21.72	22.10	22.38	22.59
		Mz	0.00	0.09	0.19	0.28	0.38	0.47	0.56
	Guarda Corpo	N	-63.510	-63.510	-63.510	-63.510	-63.510	-63.510	-63.510
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.73	5.92	6.10	6.28	6.47	6.65	6.84
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	Laje	N	-471.691	-471.691	-471.691	-471.691	-471.691	-471.691	-471.691
		Vy	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239
		Vz	-7.379	-7.379	-7.379	-7.379	-7.379	-7.379	-7.379
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	42.71	44.09	45.47	46.85	48.24	49.62	51.00
		Mz	-0.13	-0.09	-0.04	0.00	0.05	0.09	0.13
	Pavimentação	N	-258.853	-258.853	-258.853	-258.853	-258.853	-258.853	-258.853
		Vy	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135	-0.135
		Vz	-4.091	-4.091	-4.091	-4.091	-4.091	-4.091	-4.091
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	23.39	24.16	24.92	25.69	26.46	27.22	27.99
		Mz	-0.07	-0.05	-0.02	0.00	0.03	0.05	0.08
	Recapeamento	N	-117.045	-117.045	-117.045	-117.045	-117.045	-117.045	-117.045
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	-1.834	-1.834	-1.834	-1.834	-1.834	-1.834	-1.834
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.60	10.94	11.28	11.63	11.97	12.32	12.66
		Mz	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.04
	Vento 0	N	31.146	31.146	31.146	31.146	31.146	31.146	31.146
		Vy	2.932	2.932	2.932	2.932	2.932	2.932	2.932
		Vz	1.504	1.504	1.504	1.504	1.504	1.504	1.504
		Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
		My	-2.03	-2.31	-2.59	-2.87	-3.16	-3.44	-3.72
		Mz	-2.88	-3.43	-3.98	-4.53	-5.08	-5.62	-6.17

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Vento 180	N	-31.740	-31.787	-31.833	-31.880	-31.926	-31.973	-32.019
		Vy	-2.930	-2.768	-2.606	-2.444	-2.282	-2.120	-1.958
		Vz	-2.123	-2.119	-2.115	-2.111	-2.107	-2.103	-2.099
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	2.07	2.47	2.87	3.26	3.66	4.05	4.45
		Mz	3.18	3.72	4.22	4.69	5.13	5.55	5.93
	Multidão (Passeio)	N	-82.390	-82.390	-82.390	-82.390	-82.390	-82.390	-82.390
		Vy	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012	-0.012
		Vz	-1.258	-1.258	-1.258	-1.258	-1.258	-1.258	-1.258
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.41	7.64	7.88	8.12	8.35	8.59	8.82
		Mz	-0.04	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02
	Multidão - TB450	N	-269.086	-269.086	-269.086	-269.086	-269.086	-269.086	-269.086
		Vy	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178
		Vz	-4.259	-4.259	-4.259	-4.259	-4.259	-4.259	-4.259
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	24.43	25.23	26.03	26.82	27.62	28.42	29.22
		Mz	-0.06	-0.02	0.01	0.04	0.08	0.11	0.14
	TB-450-A1	N	-28.576	-28.576	-28.576	-28.576	-28.576	-28.576	-28.576
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	1.093	1.093	1.093	1.093	1.093	1.093	1.093
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.33	2.12	1.92	1.71	1.51	1.30	1.10
		Mz	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05
	TB-450-A2	N	-69.515	-69.515	-69.515	-69.515	-69.515	-69.515	-69.515
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	2.575	2.575	2.575	2.575	2.575	2.575	2.575
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.55	5.07	4.59	4.10	3.62	3.14	2.66
		Mz	-0.10	-0.10	-0.10	-0.11	-0.11	-0.11	-0.12
	TB-450-B1	N	-71.660	-71.660	-71.660	-71.660	-71.660	-71.660	-71.660
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660	-0.660
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.70	12.83	12.95	13.08	13.20	13.32	13.45

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-172.005	-172.005	-172.005	-172.005	-172.005	-172.005	-172.005
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	-1.526	-1.526	-1.526	-1.526	-1.526	-1.526	-1.526
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	29.96	30.25	30.53	30.82	31.11	31.39	31.68
		Mz	-0.21	-0.21	-0.22	-0.23	-0.23	-0.24	-0.24
	TB-450-C1	N	-148.950	-148.950	-148.950	-148.950	-148.950	-148.950	-148.950
		Vy	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192
		Vz	-6.265	-6.265	-6.265	-6.265	-6.265	-6.265	-6.265
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	8.37	9.55	10.72	11.89	13.07	14.24	15.41
		Mz	-0.03	0.00	0.04	0.07	0.11	0.15	0.18
	TB-450-C2	N	-62.020	-62.020	-62.020	-62.020	-62.020	-62.020	-62.020
		Vy	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250	-0.250
		Vz	-2.787	-2.787	-2.787	-2.787	-2.787	-2.787	-2.787
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	3.77	4.29	4.81	5.34	5.86	6.38	6.90
		Mz	0.17	0.21	0.26	0.31	0.35	0.40	0.45
	TB-450-D1	N	-37.551	-37.551	-37.551	-37.551	-37.551	-37.551	-37.551
		Vy	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Vz	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867	-0.867
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.72	0.88	1.05	1.21	1.37	1.53	1.70
		Mz	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	TB-450-D2	N	-90.610	-90.610	-90.610	-90.610	-90.610	-90.610	-90.610
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-2.020	-2.020	-2.020	-2.020	-2.020	-2.020	-2.020
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.63	2.00	2.38	2.76	3.14	3.52	3.90
		Mz	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
	TB-450-E1	N	-11.157	-11.157	-11.157	-11.157	-11.157	-11.157	-11.157
		Vy	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vz	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255	-0.255
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	0.20	0.25	0.30	0.35	0.40	0.44	0.49
		Mz	0.02	0.03	0.03	0.03	0.03	0.04	0.04
	TB-450-E2	N	-31.273	-31.273	-31.273	-31.273	-31.273	-31.273	-31.273
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-0.684	-0.684	-0.684	-0.684	-0.684	-0.684	-0.684
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.52	0.65	0.78	0.91	1.03	1.16	1.29
		Mz	0.01	0.02	0.02	0.03	0.04	0.05	0.05

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N176/N46	Peso próprio	N	-252.706	-252.679	-252.653
		Vy	-0.515	-0.515	-0.515
		Vz	-82.601	-82.302	-82.003
		Mt	0.08	0.08	0.08
		My	-1.91	8.39	18.66
		Mz	0.55	0.61	0.68
	Guarda Corpo	N	-70.024	-70.024	-70.024
		Vy	-0.025	-0.025	-0.025
		Vz	-21.638	-21.638	-21.638
		Mt	0.03	0.03	0.03
		My	0.25	2.96	5.66
		Mz	0.00	0.00	0.00
	Laje	N	-520.013	-520.013	-520.013
		Vy	-0.276	-0.276	-0.276
		Vz	-160.593	-160.593	-160.593
		Mt	0.31	0.31	0.31
		My	2.19	22.26	42.33
		Mz	0.06	0.10	0.13
	Pavimentação	N	-285.519	-285.519	-285.519
		Vy	-0.157	-0.157	-0.157
		Vz	-88.677	-88.677	-88.677
		Mt	0.18	0.18	0.18

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	1.07	12.16	23.24
		Mz	0.04	0.06	0.08
	Recapeamento	N	-129.040	-129.040	-129.040
		Vy	-0.070	-0.070	-0.070
		Vz	-39.867	-39.867	-39.867
		Mt	0.08	0.08	0.08
		My	0.54	5.53	10.51
		Mz	0.02	0.03	0.04
	Vento 0	N	36.121	36.121	36.121
		Vy	3.483	3.483	3.483
		Vz	18.198	18.198	18.198
		Mt	-0.85	-0.85	-0.85
		My	0.73	-1.54	-3.81
		Mz	-5.96	-6.39	-6.83
	Vento 180	N	-37.788	-37.819	-37.850
		Vy	0.179	0.287	0.395
		Vz	-18.849	-18.846	-18.843
		Mt	1.27	1.27	1.27
		My	-0.97	1.38	3.74
		Mz	5.78	5.75	5.71
	Multidão (Passeio)	N	-90.849	-90.849	-90.849
		Vy	-0.013	-0.013	-0.013
		Vz	-28.079	-28.079	-28.079
		Mt	0.02	0.02	0.02
		My	0.27	3.78	7.29
		Mz	-0.03	-0.03	-0.02
	Multidão - TB450	N	-296.640	-296.640	-296.640
		Vy	-0.207	-0.207	-0.207
		Vz	-91.632	-91.632	-91.632
		Mt	0.23	0.23	0.23
		My	1.39	12.85	24.30
		Mz	0.09	0.12	0.14
	TB-450-A1	N	-25.890	-25.890	-25.890
		Vy	0.036	0.036	0.036

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	9.987	9.987	9.987
		Mt	0.00	0.00	0.00
		My	3.71	2.46	1.21
		Mz	-0.04	-0.05	-0.05
	TB-450-A2	N	-63.126	-63.126	-63.126
		Vy	0.036	0.036	0.036
		Vz	23.724	23.724	23.724
		Mt	-0.01	-0.01	-0.01
		My	8.87	5.90	2.94
		Mz	-0.11	-0.12	-0.12
	TB-450-B1	N	-71.697	-71.697	-71.697
		Vy	-0.012	-0.012	-0.012
		Vz	1.983	1.983	1.983
		Mt	0.01	0.01	0.01
		My	11.93	11.69	11.44
		Mz	0.00	0.00	0.00
	TB-450-B2	N	-171.995	-171.995	-171.995
		Vy	0.016	0.016	0.016
		Vz	5.047	5.047	5.047
		Mt	-0.01	-0.01	-0.01
		My	28.19	27.56	26.92
		Mz	-0.24	-0.24	-0.24
	TB-450-C1	N	-179.412	-179.412	-179.412
		Vy	-0.237	-0.237	-0.237
		Vz	-106.692	-106.692	-106.692
		Mt	0.28	0.28	0.28
		My	-13.26	0.08	13.42
		Mz	0.12	0.15	0.18
	TB-450-C2	N	-74.932	-74.932	-74.932
		Vy	-0.284	-0.284	-0.284
		Vz	-45.369	-45.369	-45.369
		Mt	0.28	0.28	0.28
		My	-5.22	0.45	6.12
		Mz	0.38	0.42	0.45

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-D1	N	-46.394	-46.394	-46.394
		Vy	0.010	0.010	0.010
		Vz	-30.032	-30.032	-30.032
		Mt	0.00	0.00	0.00
		My	-6.72	-2.97	0.78
		Mz	0.02	0.02	0.02
	TB-450-D2	N	-111.391	-111.391	-111.391
		Vy	-0.012	-0.012	-0.012
		Vz	-70.558	-70.558	-70.558
		Mt	0.00	0.00	0.00
		My	-15.89	-7.07	1.75
		Mz	-0.05	-0.05	-0.05
	TB-450-E1	N	-13.801	-13.801	-13.801
		Vy	-0.015	-0.015	-0.015
		Vz	-8.976	-8.976	-8.976
		Mt	0.01	0.01	0.01
		My	-2.03	-0.90	0.22
		Mz	0.04	0.04	0.04
	TB-450-E2	N	-38.479	-38.479	-38.479
		Vy	-0.042	-0.042	-0.042
		Vz	-24.457	-24.457	-24.457
		Mt	0.01	0.01	0.01
		My	-5.57	-2.51	0.54
		Mz	0.05	0.05	0.06

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N46/N175	Peso próprio	N	-245.276	-245.249	-245.223
		Vy	0.630	0.630	0.630
		Vz	-73.151	-72.851	-72.552
		Mt	0.16	0.16	0.16
		My	19.37	28.50	37.58

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.70	0.62	0.54
	Guarda Corpo	N	-69.908	-69.908	-69.908
		Vy	0.136	0.136	0.136
		Vz	-21.634	-21.634	-21.634
		Mt	0.04	0.04	0.04
		My	5.67	8.38	11.08
		Mz	0.00	-0.01	-0.03
	Laje	N	-519.297	-519.297	-519.297
		Vy	1.451	1.451	1.451
		Vz	-160.549	-160.549	-160.549
		Mt	0.44	0.44	0.44
		My	42.39	62.46	82.53
		Mz	0.16	-0.02	-0.20
	Pavimentação	N	-285.135	-285.135	-285.135
		Vy	0.823	0.823	0.823
		Vz	-88.652	-88.652	-88.652
		Mt	0.25	0.25	0.25
		My	23.27	34.35	45.44
		Mz	0.10	-0.01	-0.11
	Recapeamento	N	-128.865	-128.865	-128.865
		Vy	0.369	0.369	0.369
		Vz	-39.856	-39.856	-39.856
		Mt	0.11	0.11	0.11
		My	10.52	15.51	20.49
		Mz	0.04	0.00	-0.05
	Vento 0	N	41.842	41.842	41.842
		Vy	-18.801	-18.801	-18.801
		Vz	17.637	17.637	17.637
		Mt	-2.54	-2.54	-2.54
		My	-3.39	-5.60	-7.80
		Mz	-7.22	-4.87	-2.51
	Vento 180	N	-41.158	-41.189	-41.220
		Vy	14.798	14.906	15.014
		Vz	-18.480	-18.478	-18.475

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	2.36	2.36	2.36
		My	3.49	5.80	8.11
		Mz	5.96	4.10	2.23
	Multidão (Passeio)	N	-90.667	-90.667	-90.667
		Vy	0.082	0.082	0.082
		Vz	-28.077	-28.077	-28.077
		Mt	0.03	0.03	0.03
		My	7.30	10.81	14.32
		Mz	-0.02	-0.03	-0.04
	Multidão - TB450	N	-296.314	-296.314	-296.314
		Vy	1.075	1.075	1.075
		Vz	-91.599	-91.599	-91.599
		Mt	0.32	0.32	0.32
		My	24.32	35.77	47.22
		Mz	0.17	0.03	-0.10
	TB-450-A1	N	-25.751	-25.751	-25.751
		Vy	-0.218	-0.218	-0.218
		Vz	9.980	9.980	9.980
		Mt	-0.02	-0.02	-0.02
		My	1.22	-0.03	-1.27
		Mz	-0.06	-0.03	0.00
	TB-450-A2	N	-62.982	-62.982	-62.982
		Vy	-0.247	-0.247	-0.247
		Vz	23.717	23.717	23.717
		Mt	-0.03	-0.03	-0.03
		My	2.95	-0.02	-2.98
		Mz	-0.13	-0.10	-0.07
	TB-450-B1	N	-71.674	-71.674	-71.674
		Vy	0.017	0.017	0.017
		Vz	1.984	1.984	1.984
		Mt	0.01	0.01	0.01
		My	11.44	11.19	10.94
		Mz	0.00	0.00	0.00
	TB-450-B2	N	-171.846	-171.846	-171.846

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.098	-0.098	-0.098
		Vz	5.045	5.045	5.045
		Mt	-0.02	-0.02	-0.02
		My	26.94	26.30	25.67
		Mz	-0.25	-0.23	-0.22
	TB-450-C1	N	-179.510	-179.510	-179.510
		Vy	1.301	1.301	1.301
		Vz	-106.653	-106.653	-106.653
		Mt	0.39	0.39	0.39
		My	13.41	26.74	40.07
		Mz	0.20	0.04	-0.12
	TB-450-C2	N	-75.197	-75.197	-75.197
		Vy	1.482	1.482	1.482
		Vz	-45.325	-45.325	-45.325
		Mt	0.41	0.41	0.41
		My	6.10	11.77	17.43
		Mz	0.49	0.30	0.12
	TB-450-D1	N	-46.132	-46.132	-46.132
		Vy	-0.050	-0.050	-0.050
		Vz	-30.033	-30.033	-30.033
		Mt	0.00	0.00	0.00
		My	0.80	4.56	8.31
		Mz	0.02	0.03	0.03
	TB-450-D2	N	-111.024	-111.024	-111.024
		Vy	0.087	0.087	0.087
		Vz	-70.555	-70.555	-70.555
		Mt	0.01	0.01	0.01
		My	1.78	10.60	19.42
		Mz	-0.04	-0.06	-0.07
	TB-450-E1	N	-13.720	-13.720	-13.720
		Vy	0.088	0.088	0.088
		Vz	-8.973	-8.973	-8.973
		Mt	0.01	0.01	0.01
		My	0.22	1.35	2.47

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.05	0.03	0.02
	TB-450-E2	N	-38.348	-38.348	-38.348
		Vy	0.240	0.240	0.240
		Vz	-24.450	-24.450	-24.450
		Mt	0.04	0.04	0.04
		My	0.55	3.61	6.67
		Mz	0.06	0.03	0.00

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N175/N15	Peso próprio	N	-253.318	-253.278	-253.239	-253.200	-253.160	-253.121	-253.082
		Vy	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Vz	-0.718	-0.270	0.178	0.627	1.075	1.523	1.972
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.23	22.32	22.33	22.25	22.09	21.85	21.52
		Mz	0.53	0.48	0.43	0.38	0.33	0.28	0.22
	Guarda Corpo	N	-72.407	-72.407	-72.407	-72.407	-72.407	-72.407	-72.407
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	0.676	0.676	0.676	0.676	0.676	0.676	0.676
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.65	6.53	6.40	6.27	6.15	6.02	5.89
		Mz	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06	-0.06
	Laje	N	-537.825	-537.825	-537.825	-537.825	-537.825	-537.825	-537.825
		Vy	0.304	0.304	0.304	0.304	0.304	0.304	0.304
		Vz	5.140	5.140	5.140	5.140	5.140	5.140	5.140
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	49.75	48.79	47.82	46.86	45.90	44.93	43.97
		Mz	-0.21	-0.27	-0.32	-0.38	-0.44	-0.50	-0.55
	Pavimentação	N	-295.362	-295.362	-295.362	-295.362	-295.362	-295.362	-295.362
		Vy	0.172	0.172	0.172	0.172	0.172	0.172	0.172
		Vz	2.779	2.779	2.779	2.779	2.779	2.779	2.779
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.34	26.82	26.30	25.78	25.26	24.74	24.22
		Mz	-0.12	-0.15	-0.18	-0.21	-0.24	-0.28	-0.31

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Recapeamento	N	-133.464	-133.464	-133.464	-133.464	-133.464	-133.464	-133.464
		Vy	0.077	0.077	0.077	0.077	0.077	0.077	0.077
		Vz	1.276	1.276	1.276	1.276	1.276	1.276	1.276
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.35	12.11	11.87	11.63	11.40	11.16	10.92
		Mz	-0.05	-0.07	-0.08	-0.10	-0.11	-0.12	-0.14
	Vento 0	N	43.799	43.799	43.799	43.799	43.799	43.799	43.799
		Vy	-12.880	-12.880	-12.880	-12.880	-12.880	-12.880	-12.880
		Vz	0.162	0.162	0.162	0.162	0.162	0.162	0.162
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	-4.46	-4.49	-4.52	-4.55	-4.59	-4.62	-4.65
		Mz	-2.46	-0.05	2.37	4.78	7.19	9.60	12.02
	Vento 180	N	-43.933	-43.980	-44.026	-44.073	-44.119	-44.166	-44.212
		Vy	11.482	11.644	11.806	11.968	12.130	12.292	12.454
		Vz	-0.790	-0.786	-0.782	-0.778	-0.773	-0.769	-0.765
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	3.86	4.01	4.15	4.30	4.44	4.59	4.73
		Mz	2.15	-0.02	-2.21	-4.44	-6.70	-8.98	-11.30
	Multidão (Passeio)	N	-93.915	-93.915	-93.915	-93.915	-93.915	-93.915	-93.915
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	0.853	0.853	0.853	0.853	0.853	0.853	0.853
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.56	8.40	8.24	8.08	7.92	7.76	7.60
		Mz	-0.04	-0.05	-0.05	-0.05	-0.06	-0.06	-0.06
	Multidão - TB450	N	-306.874	-306.874	-306.874	-306.874	-306.874	-306.874	-306.874
		Vy	0.227	0.227	0.227	0.227	0.227	0.227	0.227
		Vz	2.990	2.990	2.990	2.990	2.990	2.990	2.990
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	28.57	28.01	27.45	26.89	26.33	25.77	25.21
		Mz	-0.11	-0.15	-0.20	-0.24	-0.28	-0.32	-0.37
	TB-450-A1	N	-24.471	-24.471	-24.471	-24.471	-24.471	-24.471	-24.471
		Vy	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150
		Vz	0.545	0.545	0.545	0.545	0.545	0.545	0.545
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.24	1.13	1.03	0.93	0.83	0.73	0.62

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.00	0.03	0.05	0.08	0.11	0.14	0.17
	TB-450-A2	N	-59.937	-59.937	-59.937	-59.937	-59.937	-59.937	-59.937
		Vy	-0.174	-0.174	-0.174	-0.174	-0.174	-0.174	-0.174
		Vz	1.295	1.295	1.295	1.295	1.295	1.295	1.295
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.99	2.75	2.50	2.26	2.02	1.77	1.53
		Mz	-0.07	-0.03	0.00	0.03	0.06	0.10	0.13
	TB-450-B1	N	-71.171	-71.171	-71.171	-71.171	-71.171	-71.171	-71.171
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	2.947	2.947	2.947	2.947	2.947	2.947	2.947
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.36	11.81	11.26	10.70	10.15	9.60	9.05
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	TB-450-B2	N	-170.619	-170.619	-170.619	-170.619	-170.619	-170.619	-170.619
		Vy	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083
		Vz	6.967	6.967	6.967	6.967	6.967	6.967	6.967
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	29.09	27.78	26.48	25.17	23.87	22.56	21.26
		Mz	-0.22	-0.20	-0.19	-0.17	-0.16	-0.14	-0.13
	TB-450-C1	N	-191.537	-191.537	-191.537	-191.537	-191.537	-191.537	-191.537
		Vy	0.234	0.234	0.234	0.234	0.234	0.234	0.234
		Vz	-3.025	-3.025	-3.025	-3.025	-3.025	-3.025	-3.025
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.50	19.07	19.64	20.20	20.77	21.34	21.90
		Mz	-0.13	-0.17	-0.22	-0.26	-0.30	-0.35	-0.39
	TB-450-C2	N	-80.280	-80.280	-80.280	-80.280	-80.280	-80.280	-80.280
		Vy	0.415	0.415	0.415	0.415	0.415	0.415	0.415
		Vz	-1.152	-1.152	-1.152	-1.152	-1.152	-1.152	-1.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.38	8.60	8.81	9.03	9.24	9.46	9.68
		Mz	0.11	0.03	-0.05	-0.13	-0.20	-0.28	-0.36
	TB-450-D1	N	-49.980	-49.980	-49.980	-49.980	-49.980	-49.980	-49.980
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	1.02	1.01	1.00	0.99	0.98	0.97	0.96
		Mz	0.03	0.04	0.05	0.06	0.06	0.07	0.08
	TB-450-D2	N	-120.067	-120.067	-120.067	-120.067	-120.067	-120.067	-120.067
		Vy	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Vz	0.134	0.134	0.134	0.134	0.134	0.134	0.134
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.28	2.25	2.23	2.20	2.18	2.15	2.13
		Mz	-0.07	-0.08	-0.09	-0.10	-0.11	-0.13	-0.14
	TB-450-E1	N	-14.877	-14.877	-14.877	-14.877	-14.877	-14.877	-14.877
		Vy	0.058	0.058	0.058	0.058	0.058	0.058	0.058
		Vz	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.28	0.26	0.25	0.24	0.23	0.22	0.20
		Mz	0.02	0.01	0.00	-0.01	-0.02	-0.03	-0.04
	TB-450-E2	N	-41.504	-41.504	-41.504	-41.504	-41.504	-41.504	-41.504
		Vy	0.166	0.166	0.166	0.166	0.166	0.166	0.166
		Vz	0.179	0.179	0.179	0.179	0.179	0.179	0.179
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.69	0.65	0.62	0.59	0.55	0.52	0.49
		Mz	0.00	-0.03	-0.06	-0.09	-0.12	-0.15	-0.18

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N15/N178	Peso próprio	N	-253.082	-253.042	-253.003	-252.964	-252.924	-252.885	-252.846
		Vy	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Vz	1.972	2.420	2.868	3.317	3.765	4.213	4.661
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.52	21.11	20.62	20.04	19.37	18.63	17.80
		Mz	0.22	0.17	0.12	0.07	0.02	-0.04	-0.09
	Guarda Corpo	N	-72.407	-72.407	-72.407	-72.407	-72.407	-72.407	-72.407
		Vy	0.028	0.028	0.028	0.028	0.028	0.028	0.028
		Vz	0.676	0.676	0.676	0.676	0.676	0.676	0.676
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.89	5.77	5.64	5.51	5.39	5.26	5.13

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-0.06	-0.07	-0.07	-0.08	-0.08	-0.09	-0.09
	Laje	N	-537.825	-537.825	-537.825	-537.825	-537.825	-537.825	-537.825
		Vy	0.304	0.304	0.304	0.304	0.304	0.304	0.304
		Vz	5.140	5.140	5.140	5.140	5.140	5.140	5.140
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	43.97	43.01	42.05	41.08	40.12	39.16	38.20
		Mz	-0.55	-0.61	-0.67	-0.72	-0.78	-0.84	-0.89
	Pavimentação	N	-295.362	-295.362	-295.362	-295.362	-295.362	-295.362	-295.362
		Vy	0.172	0.172	0.172	0.172	0.172	0.172	0.172
		Vz	2.779	2.779	2.779	2.779	2.779	2.779	2.779
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	24.22	23.70	23.18	22.66	22.14	21.62	21.09
		Mz	-0.31	-0.34	-0.37	-0.41	-0.44	-0.47	-0.50
	Recapeamento	N	-133.464	-133.464	-133.464	-133.464	-133.464	-133.464	-133.464
		Vy	0.077	0.077	0.077	0.077	0.077	0.077	0.077
		Vz	1.276	1.276	1.276	1.276	1.276	1.276	1.276
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.92	10.68	10.44	10.20	9.96	9.72	9.48
		Mz	-0.14	-0.15	-0.17	-0.18	-0.20	-0.21	-0.23
	Vento 0	N	43.799	43.799	43.799	43.799	43.799	43.799	43.799
		Vy	-12.880	-12.880	-12.880	-12.880	-12.880	-12.880	-12.880
		Vz	0.162	0.162	0.162	0.162	0.162	0.162	0.162
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	-4.65	-4.68	-4.71	-4.74	-4.77	-4.80	-4.83
		Mz	12.02	14.43	16.84	19.25	21.67	24.08	26.49
	Vento 180	N	-44.212	-44.259	-44.305	-44.352	-44.398	-44.445	-44.491
		Vy	12.454	12.616	12.778	12.940	13.102	13.264	13.426
		Vz	-0.765	-0.761	-0.757	-0.753	-0.749	-0.745	-0.741
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	4.73	4.88	5.02	5.16	5.30	5.44	5.58
		Mz	-11.30	-13.65	-16.03	-18.43	-20.87	-23.34	-25.84
	Multidão (Passeio)	N	-93.915	-93.915	-93.915	-93.915	-93.915	-93.915	-93.915
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	0.853	0.853	0.853	0.853	0.853	0.853	0.853
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	7.60	7.44	7.28	7.12	6.96	6.80	6.64
		Mz	-0.06	-0.06	-0.07	-0.07	-0.07	-0.08	-0.08
	Multidão - TB450	N	-306.874	-306.874	-306.874	-306.874	-306.874	-306.874	-306.874
		Vy	0.227	0.227	0.227	0.227	0.227	0.227	0.227
		Vz	2.990	2.990	2.990	2.990	2.990	2.990	2.990
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.21	24.65	24.09	23.53	22.97	22.41	21.85
		Mz	-0.37	-0.41	-0.45	-0.49	-0.54	-0.58	-0.62
	TB-450-A1	N	-24.471	-24.471	-24.471	-24.471	-24.471	-24.471	-24.471
		Vy	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150
		Vz	0.545	0.545	0.545	0.545	0.545	0.545	0.545
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.62	0.52	0.42	0.32	0.21	0.11	0.01
		Mz	0.17	0.19	0.22	0.25	0.28	0.31	0.33
	TB-450-A2	N	-59.937	-59.937	-59.937	-59.937	-59.937	-59.937	-59.937
		Vy	-0.174	-0.174	-0.174	-0.174	-0.174	-0.174	-0.174
		Vz	1.295	1.295	1.295	1.295	1.295	1.295	1.295
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.53	1.29	1.05	0.80	0.56	0.32	0.08
		Mz	0.13	0.16	0.20	0.23	0.26	0.29	0.33
	TB-450-B1	N	-71.171	-71.171	-71.171	-71.171	-71.171	-71.171	-71.171
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	2.947	2.947	2.947	2.947	2.947	2.947	2.947
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.05	8.50	7.94	7.39	6.84	6.29	5.74
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-B2	N	-170.619	-170.619	-170.619	-170.619	-170.619	-170.619	-170.619
		Vy	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083
		Vz	6.967	6.967	6.967	6.967	6.967	6.967	6.967
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.26	19.95	18.65	17.34	16.04	14.73	13.43
		Mz	-0.13	-0.11	-0.10	-0.08	-0.06	-0.05	-0.03
	TB-450-C1	N	-191.537	-191.537	-191.537	-191.537	-191.537	-191.537	-191.537
		Vy	0.234	0.234	0.234	0.234	0.234	0.234	0.234
		Vz	-3.025	-3.025	-3.025	-3.025	-3.025	-3.025	-3.025

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.90	22.47	23.04	23.60	24.17	24.73	25.30
		Mz	-0.39	-0.44	-0.48	-0.52	-0.57	-0.61	-0.66
	TB-450-C2	N	-80.280	-80.280	-80.280	-80.280	-80.280	-80.280	-80.280
		Vy	0.415	0.415	0.415	0.415	0.415	0.415	0.415
		Vz	-1.152	-1.152	-1.152	-1.152	-1.152	-1.152	-1.152
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.68	9.89	10.11	10.32	10.54	10.75	10.97
		Mz	-0.36	-0.44	-0.52	-0.59	-0.67	-0.75	-0.83
	TB-450-D1	N	-49.980	-49.980	-49.980	-49.980	-49.980	-49.980	-49.980
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.96	0.95	0.94	0.93	0.92	0.91	0.90
		Mz	0.08	0.09	0.10	0.10	0.11	0.12	0.13
	TB-450-D2	N	-120.067	-120.067	-120.067	-120.067	-120.067	-120.067	-120.067
		Vy	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Vz	0.134	0.134	0.134	0.134	0.134	0.134	0.134
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.13	2.10	2.08	2.05	2.03	2.00	1.98
		Mz	-0.14	-0.15	-0.16	-0.17	-0.19	-0.20	-0.21
	TB-450-E1	N	-14.877	-14.877	-14.877	-14.877	-14.877	-14.877	-14.877
		Vy	0.058	0.058	0.058	0.058	0.058	0.058	0.058
		Vz	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.20	0.19	0.18	0.17	0.16	0.14	0.13
		Mz	-0.04	-0.05	-0.06	-0.08	-0.09	-0.10	-0.11
	TB-450-E2	N	-41.504	-41.504	-41.504	-41.504	-41.504	-41.504	-41.504
		Vy	0.166	0.166	0.166	0.166	0.166	0.166	0.166
		Vz	0.179	0.179	0.179	0.179	0.179	0.179	0.179
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.49	0.45	0.42	0.39	0.35	0.32	0.29
		Mz	-0.18	-0.21	-0.24	-0.28	-0.31	-0.34	-0.37

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N178/N49	Peso próprio	N	-258.848	-258.822	-258.795
		Vy	-0.057	-0.057	-0.057
		Vz	-9.200	-8.901	-8.602
		Mt	-0.13	-0.13	-0.13
		My	9.56	10.70	11.79
		Mz	-0.08	-0.07	-0.06
	Guarda Corpo	N	-73.342	-73.342	-73.342
		Vy	-0.077	-0.077	-0.077
		Vz	-0.627	-0.627	-0.627
		Mt	-0.04	-0.04	-0.04
		My	3.21	3.29	3.36
		Mz	-0.09	-0.08	-0.07
	Laje	N	-544.351	-544.351	-544.351
		Vy	-0.809	-0.809	-0.809
		Vz	-3.015	-3.015	-3.015
		Mt	-0.43	-0.43	-0.43
		My	24.19	24.57	24.95
		Mz	-0.86	-0.76	-0.66
	Pavimentação	N	-298.998	-298.998	-298.998
		Vy	-0.459	-0.459	-0.459
		Vz	-1.848	-1.848	-1.848
		Mt	-0.24	-0.24	-0.24
		My	13.34	13.57	13.80
		Mz	-0.48	-0.43	-0.37
	Recapeamento	N	-135.078	-135.078	-135.078
		Vy	-0.205	-0.205	-0.205
		Vz	-0.727	-0.727	-0.727
		Mt	-0.11	-0.11	-0.11
		My	6.01	6.10	6.19
		Mz	-0.22	-0.19	-0.17
	Vento 0	N	43.681	43.681	43.681
		Vy	-7.221	-7.221	-7.221
		Vz	-2.264	-2.264	-2.264
		Mt	3.40	3.40	3.40
		My	-3.78	-3.50	-3.21

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	26.05	26.95	27.85
	Vento 180	N	-45.079	-45.110	-45.141
		Vy	10.204	10.313	10.421
		Vz	1.990	1.993	1.996
		Mt	-3.24	-3.24	-3.24
		My	3.61	3.36	3.11
		Mz	-25.29	-26.57	-27.86
	Multidão (Passeio)	N	-95.213	-95.213	-95.213
		Vy	-0.048	-0.048	-0.048
		Vz	-1.154	-1.154	-1.154
		Mt	-0.03	-0.03	-0.03
		My	4.08	4.23	4.37
		Mz	-0.08	-0.07	-0.07
	Multidão - TB450	N	-310.378	-310.378	-310.378
		Vy	-0.595	-0.595	-0.595
		Vz	-0.850	-0.850	-0.850
		Mt	-0.32	-0.32	-0.32
		My	14.01	14.12	14.22
		Mz	-0.60	-0.52	-0.45
	TB-450-A1	N	-21.122	-21.122	-21.122
		Vy	-0.085	-0.085	-0.085
		Vz	11.838	11.838	11.838
		Mt	0.04	0.04	0.04
		My	3.10	1.62	0.14
		Mz	0.33	0.34	0.35
	TB-450-A2	N	-51.938	-51.938	-51.938
		Vy	-0.105	-0.105	-0.105
		Vz	28.284	28.284	28.284
		Mt	0.04	0.04	0.04
		My	7.46	3.92	0.39
		Mz	0.32	0.33	0.35
	TB-450-B1	N	-63.158	-63.158	-63.158
		Vy	-0.007	-0.007	-0.007
		Vz	31.532	31.532	31.532

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.00	0.00	0.00
		My	12.22	8.28	4.34
		Mz	-0.01	-0.01	-0.01
	TB-450-B2	N	-151.705	-151.705	-151.705
		Vy	-0.069	-0.069	-0.069
		Vz	74.412	74.412	74.412
		Mt	0.00	0.00	0.00
		My	28.75	19.44	10.14
		Mz	-0.03	-0.02	-0.02
	TB-450-C1	N	-200.867	-200.867	-200.867
		Vy	-0.799	-0.799	-0.799
		Vz	-27.341	-27.341	-27.341
		Mt	-0.39	-0.39	-0.39
		My	12.77	16.19	19.61
		Mz	-0.63	-0.53	-0.43
	TB-450-C2	N	-83.653	-83.653	-83.653
		Vy	-0.616	-0.616	-0.616
		Vz	-9.285	-9.285	-9.285
		Mt	-0.40	-0.40	-0.40
		My	6.06	7.22	8.38
		Mz	-0.79	-0.72	-0.64
	TB-450-D1	N	-57.697	-57.697	-57.697
		Vy	-0.037	-0.037	-0.037
		Vz	-24.691	-24.691	-24.691
		Mt	0.01	0.01	0.01
		My	-7.01	-3.92	-0.83
		Mz	0.13	0.13	0.14
	TB-450-D2	N	-138.315	-138.315	-138.315
		Vy	0.040	0.040	0.040
		Vz	-58.412	-58.412	-58.412
		Mt	-0.01	-0.01	-0.01
		My	-16.71	-9.40	-2.10
		Mz	-0.21	-0.21	-0.22
	TB-450-E1	N	-17.221	-17.221	-17.221

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.030	0.030	0.030
		Vz	-7.440	-7.440	-7.440
		Mt	-0.02	-0.02	-0.02
		My	-2.28	-1.35	-0.42
		Mz	-0.11	-0.11	-0.11
	TB-450-E2	N	-47.955	-47.955	-47.955
		Vy	0.093	0.093	0.093
		Vz	-20.496	-20.496	-20.496
		Mt	-0.04	-0.04	-0.04
		My	-6.35	-3.78	-1.22
		Mz	-0.36	-0.37	-0.39

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N40/N170	Peso próprio	N	-97.894	-97.855	-97.815
		Vy	-0.330	-0.330	-0.330
		Vz	-256.479	-256.031	-255.583
		Mt	0.10	0.10	0.10
		My	-126.50	-94.47	-62.50
		Mz	-0.68	-0.64	-0.60
	Guarda Corpo	N	-26.141	-26.141	-26.141
		Vy	-0.062	-0.062	-0.062
		Vz	-72.360	-72.360	-72.360
		Mt	0.03	0.03	0.03
		My	-34.06	-25.02	-15.97
		Mz	-0.15	-0.14	-0.13
	Laje	N	-194.141	-194.141	-194.141
		Vy	-0.466	-0.466	-0.466
		Vz	-537.500	-537.500	-537.500
		Mt	0.22	0.22	0.22
		My	-252.95	-185.77	-118.58
		Mz	-1.10	-1.04	-0.98

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	-106.412	-106.412	-106.412
		Vy	-0.256	-0.256	-0.256
		Vz	-294.616	-294.616	-294.616
		Mt	0.12	0.12	0.12
		My	-138.66	-101.84	-65.01
		Mz	-0.60	-0.57	-0.54
	Recapeamento	N	-48.169	-48.169	-48.169
		Vy	-0.116	-0.116	-0.116
		Vz	-133.364	-133.364	-133.364
		Mt	0.05	0.05	0.05
		My	-62.76	-46.09	-29.42
		Mz	-0.27	-0.26	-0.24
	Vento 0	N	13.787	13.787	13.787
		Vy	-3.240	-3.240	-3.240
		Vz	26.794	26.794	26.794
		Mt	3.22	3.22	3.22
		My	12.20	8.85	5.50
		Mz	-7.40	-7.00	-6.59
	Vento 180	N	-13.266	-13.297	-13.328
		Vy	-0.359	-0.251	-0.142
		Vz	-27.223	-27.220	-27.218
		Mt	-3.37	-3.37	-3.37
		My	-13.14	-9.73	-6.33
		Mz	6.92	6.96	6.99
	Multidão (Passeio)	N	-33.917	-33.917	-33.917
		Vy	-0.078	-0.078	-0.078
		Vz	-93.865	-93.865	-93.865
		Mt	0.04	0.04	0.04
		My	-44.20	-32.47	-20.74
		Mz	-0.19	-0.18	-0.17
	Multidão - TB450	N	-110.728	-110.728	-110.728
		Vy	-0.271	-0.271	-0.271
		Vz	-306.619	-306.619	-306.619
		Mt	0.13	0.13	0.13

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-144.26	-105.93	-67.60
		Mz	-0.63	-0.60	-0.57
	TB-450-A1	N	-23.598	-23.598	-23.598
		Vy	0.081	0.081	0.081
		Vz	-64.557	-64.557	-64.557
		Mt	0.30	0.30	0.30
		My	-29.13	-21.06	-12.99
		Mz	0.23	0.22	0.21
	TB-450-A2	N	-56.704	-56.704	-56.704
		Vy	0.136	0.136	0.136
		Vz	-152.855	-152.855	-152.855
		Mt	0.03	0.03	0.03
		My	-69.09	-49.98	-30.87
		Mz	0.28	0.26	0.24
	TB-450-B1	N	-27.662	-27.662	-27.662
		Vy	-0.228	-0.228	-0.228
		Vz	-78.475	-78.475	-78.475
		Mt	0.09	0.09	0.09
		My	-36.90	-27.09	-17.28
		Mz	-0.49	-0.46	-0.43
	TB-450-B2	N	-67.081	-67.081	-67.081
		Vy	-0.101	-0.101	-0.101
		Vz	-185.334	-185.334	-185.334
		Mt	-0.12	-0.12	-0.12
		My	-88.37	-65.20	-42.03
		Mz	-0.31	-0.29	-0.28
	TB-450-C1	N	-48.401	-48.401	-48.401
		Vy	-0.101	-0.101	-0.101
		Vz	-133.658	-133.658	-133.658
		Mt	-0.14	-0.14	-0.14
		My	-64.60	-47.89	-31.18
		Mz	-0.25	-0.24	-0.23
	TB-450-C2	N	-19.769	-19.769	-19.769
		Vy	-0.241	-0.241	-0.241

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-56.909	-56.909	-56.909
		Mt	0.13	0.13	0.13
		My	-26.70	-19.59	-12.48
		Mz	-0.50	-0.47	-0.44
	TB-450-D1	N	-11.774	-11.774	-11.774
		Vy	-0.162	-0.162	-0.162
		Vz	-34.248	-34.248	-34.248
		Mt	0.09	0.09	0.09
		My	-15.98	-11.70	-7.41
		Mz	-0.36	-0.33	-0.31
	TB-450-D2	N	-29.252	-29.252	-29.252
		Vy	-0.047	-0.047	-0.047
		Vz	-80.637	-80.637	-80.637
		Mt	-0.09	-0.09	-0.09
		My	-39.12	-29.04	-18.96
		Mz	-0.14	-0.13	-0.13
	TB-450-E1	N	-3.490	-3.490	-3.490
		Vy	-0.047	-0.047	-0.047
		Vz	-10.181	-10.181	-10.181
		Mt	0.04	0.04	0.04
		My	-4.69	-3.42	-2.14
		Mz	-0.11	-0.10	-0.10
	TB-450-E2	N	-10.133	-10.133	-10.133
		Vy	-0.009	-0.009	-0.009
		Vz	-27.822	-27.822	-27.822
		Mt	-0.01	-0.01	-0.01
		My	-13.51	-10.04	-6.56
		Mz	-0.04	-0.04	-0.04

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N170/N23	Peso próprio	N	-127.171	-127.113	-127.054	-126.995	-126.936	-126.877	-126.818
		Vy	-0.346	-0.346	-0.346	-0.346	-0.346	-0.346	-0.346

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-39.441	-38.769	-38.098	-37.426	-36.754	-36.083	-35.411
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-111.80	-104.48	-97.28	-90.21	-83.26	-76.44	-69.75
		Mz	-0.61	-0.54	-0.48	-0.41	-0.35	-0.29	-0.22
	Guarda Corpo	N	-35.054	-35.054	-35.054	-35.054	-35.054	-35.054	-35.054
		Vy	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065
		Vz	-9.554	-9.554	-9.554	-9.554	-9.554	-9.554	-9.554
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-30.83	-29.04	-27.25	-25.46	-23.67	-21.88	-20.09
		Mz	-0.13	-0.12	-0.11	-0.10	-0.09	-0.07	-0.06
	Laje	N	-260.355	-260.355	-260.355	-260.355	-260.355	-260.355	-260.355
		Vy	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493
		Vz	-70.953	-70.953	-70.953	-70.953	-70.953	-70.953	-70.953
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-228.92	-215.63	-202.34	-189.05	-175.76	-162.47	-149.19
		Mz	-1.01	-0.92	-0.83	-0.73	-0.64	-0.55	-0.46
	Pavimentação	N	-142.726	-142.726	-142.726	-142.726	-142.726	-142.726	-142.726
		Vy	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270
		Vz	-38.873	-38.873	-38.873	-38.873	-38.873	-38.873	-38.873
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-125.55	-118.27	-110.99	-103.71	-96.43	-89.15	-81.87
		Mz	-0.55	-0.50	-0.45	-0.40	-0.35	-0.30	-0.25
	Recapeamento	N	-64.599	-64.599	-64.599	-64.599	-64.599	-64.599	-64.599
		Vy	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122
		Vz	-17.604	-17.604	-17.604	-17.604	-17.604	-17.604	-17.604
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-56.80	-53.50	-50.21	-46.91	-43.61	-40.32	-37.02
		Mz	-0.25	-0.23	-0.21	-0.18	-0.16	-0.14	-0.11
	Vento 0	N	17.276	17.276	17.276	17.276	17.276	17.276	17.276
		Vy	-3.599	-3.599	-3.599	-3.599	-3.599	-3.599	-3.599
		Vz	3.075	3.075	3.075	3.075	3.075	3.075	3.075
		Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
		My	11.56	10.98	10.41	9.83	9.25	8.68	8.10
		Mz	-7.19	-6.52	-5.84	-5.17	-4.50	-3.82	-3.15
	Vento 180	N	-17.509	-17.555	-17.602	-17.648	-17.695	-17.741	-17.788

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	2.980	3.142	3.304	3.466	3.628	3.790	3.952
		Vz	-3.782	-3.778	-3.774	-3.770	-3.766	-3.762	-3.758
		Mt	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
		My	-12.94	-12.24	-11.53	-10.82	-10.12	-9.41	-8.71
		Mz	7.54	6.97	6.36	5.73	5.07	4.37	3.65
	Multidão (Passeio)	N	-45.478	-45.478	-45.478	-45.478	-45.478	-45.478	-45.478
		Vy	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vz	-12.397	-12.397	-12.397	-12.397	-12.397	-12.397	-12.397
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-40.00	-37.67	-35.35	-33.03	-30.71	-28.39	-26.07
		Mz	-0.17	-0.16	-0.14	-0.13	-0.11	-0.09	-0.08
	Multidão - TB450	N	-148.505	-148.505	-148.505	-148.505	-148.505	-148.505	-148.505
		Vy	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287
		Vz	-40.464	-40.464	-40.464	-40.464	-40.464	-40.464	-40.464
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-130.57	-122.99	-115.41	-107.83	-100.25	-92.67	-85.10
		Mz	-0.58	-0.53	-0.48	-0.42	-0.37	-0.32	-0.26
	TB-450-A1	N	-29.129	-29.129	-29.129	-29.129	-29.129	-29.129	-29.129
		Vy	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vz	-9.523	-9.523	-9.523	-9.523	-9.523	-9.523	-9.523
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-18.83	-17.04	-15.26	-13.47	-11.69	-9.91	-8.12
		Mz	0.18	0.17	0.16	0.15	0.15	0.14	0.13
	TB-450-A2	N	-69.784	-69.784	-69.784	-69.784	-69.784	-69.784	-69.784
		Vy	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vz	-22.596	-22.596	-22.596	-22.596	-22.596	-22.596	-22.596
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-44.62	-40.39	-36.16	-31.93	-27.70	-23.46	-19.23
		Mz	0.24	0.22	0.19	0.17	0.14	0.12	0.09
	TB-450-B1	N	-38.155	-38.155	-38.155	-38.155	-38.155	-38.155	-38.155
		Vy	-0.237	-0.237	-0.237	-0.237	-0.237	-0.237	-0.237
		Vz	-10.727	-10.727	-10.727	-10.727	-10.727	-10.727	-10.727
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-36.11	-34.10	-32.09	-30.08	-28.07	-26.07	-24.06
		Mz	-0.45	-0.41	-0.36	-0.32	-0.27	-0.23	-0.18

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	TB-450-B2	N	-91.748	-91.748	-91.748	-91.748	-91.748	-91.748	-91.748
		Vy	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090
		Vz	-25.658	-25.658	-25.658	-25.658	-25.658	-25.658	-25.658
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-86.05	-81.25	-76.44	-71.64	-66.83	-62.03	-57.22
		Mz	-0.26	-0.24	-0.23	-0.21	-0.19	-0.18	-0.16
	TB-450-C1	N	-66.933	-66.933	-66.933	-66.933	-66.933	-66.933	-66.933
		Vy	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087
		Vz	-15.899	-15.899	-15.899	-15.899	-15.899	-15.899	-15.899
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-64.71	-61.73	-58.75	-55.77	-52.80	-49.82	-46.84
		Mz	-0.20	-0.18	-0.17	-0.15	-0.14	-0.12	-0.10
	TB-450-C2	N	-27.731	-27.731	-27.731	-27.731	-27.731	-27.731	-27.731
		Vy	-0.253	-0.253	-0.253	-0.253	-0.253	-0.253	-0.253
		Vz	-6.568	-6.568	-6.568	-6.568	-6.568	-6.568	-6.568
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-27.04	-25.81	-24.58	-23.35	-22.12	-20.89	-19.66
		Mz	-0.47	-0.42	-0.37	-0.33	-0.28	-0.23	-0.18
	TB-450-D1	N	-16.586	-16.586	-16.586	-16.586	-16.586	-16.586	-16.586
		Vy	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171
		Vz	-3.901	-3.901	-3.901	-3.901	-3.901	-3.901	-3.901
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.25	-15.52	-14.78	-14.05	-13.32	-12.59	-11.86
		Mz	-0.33	-0.30	-0.27	-0.24	-0.20	-0.17	-0.14
	TB-450-D2	N	-40.444	-40.444	-40.444	-40.444	-40.444	-40.444	-40.444
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	-9.569	-9.569	-9.569	-9.569	-9.569	-9.569	-9.569
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-39.20	-37.41	-35.61	-33.82	-32.03	-30.24	-28.45
		Mz	-0.11	-0.10	-0.10	-0.09	-0.08	-0.08	-0.07
	TB-450-E1	N	-4.926	-4.926	-4.926	-4.926	-4.926	-4.926	-4.926
		Vy	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Vz	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.79	-4.58	-4.36	-4.15	-3.93	-3.72	-3.51

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-0.11	-0.10	-0.09	-0.08	-0.07	-0.06	-0.05
	TB-450-E2	N	-13.993	-13.993	-13.993	-13.993	-13.993	-13.993	-13.993
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-3.304	-3.304	-3.304	-3.304	-3.304	-3.304	-3.304
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.54	-12.92	-12.30	-11.68	-11.06	-10.44	-9.82
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N23/N171	Peso próprio	N	-126.818	-126.759	-126.700	-126.641	-126.582	-126.524	-126.465
		Vy	-0.346	-0.346	-0.346	-0.346	-0.346	-0.346	-0.346
		Vz	-35.411	-34.739	-34.067	-33.396	-32.724	-32.052	-31.380
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-69.75	-63.18	-56.73	-50.41	-44.22	-38.16	-32.22
		Mz	-0.22	-0.16	-0.09	-0.03	0.04	0.10	0.17
	Guarda Corpo	N	-35.054	-35.054	-35.054	-35.054	-35.054	-35.054	-35.054
		Vy	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065
		Vz	-9.554	-9.554	-9.554	-9.554	-9.554	-9.554	-9.554
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-20.09	-18.30	-16.51	-14.72	-12.93	-11.14	-9.35
		Mz	-0.06	-0.05	-0.04	-0.02	-0.01	0.00	0.01
	Laje	N	-260.355	-260.355	-260.355	-260.355	-260.355	-260.355	-260.355
		Vy	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493	-0.493
		Vz	-70.953	-70.953	-70.953	-70.953	-70.953	-70.953	-70.953
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-149.19	-135.90	-122.61	-109.32	-96.03	-82.74	-69.45
		Mz	-0.46	-0.37	-0.27	-0.18	-0.09	0.00	0.10
	Pavimentação	N	-142.726	-142.726	-142.726	-142.726	-142.726	-142.726	-142.726
		Vy	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270
		Vz	-38.873	-38.873	-38.873	-38.873	-38.873	-38.873	-38.873
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-81.87	-74.59	-67.30	-60.02	-52.74	-45.46	-38.18
		Mz	-0.25	-0.20	-0.15	-0.10	-0.05	0.00	0.05

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Recapeamento	N	-64.599	-64.599	-64.599	-64.599	-64.599	-64.599	-64.599
		Vy	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122	-0.122
		Vz	-17.604	-17.604	-17.604	-17.604	-17.604	-17.604	-17.604
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-37.02	-33.72	-30.42	-27.13	-23.83	-20.53	-17.24
		Mz	-0.11	-0.09	-0.07	-0.04	-0.02	0.00	0.02
	Vento 0	N	17.276	17.276	17.276	17.276	17.276	17.276	17.276
		Vy	-3.599	-3.599	-3.599	-3.599	-3.599	-3.599	-3.599
		Vz	3.075	3.075	3.075	3.075	3.075	3.075	3.075
		Mt	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
		My	8.10	7.53	6.95	6.37	5.80	5.22	4.65
		Mz	-3.15	-2.47	-1.80	-1.13	-0.45	0.22	0.90
	Vento 180	N	-17.788	-17.834	-17.881	-17.927	-17.974	-18.020	-18.067
		Vy	3.952	4.114	4.276	4.438	4.600	4.762	4.924
		Vz	-3.758	-3.754	-3.750	-3.746	-3.742	-3.738	-3.733
		Mt	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
		My	-8.71	-8.00	-7.30	-6.60	-5.90	-5.20	-4.50
		Mz	3.65	2.89	2.10	1.29	0.44	-0.43	-1.34
	Multidão (Passeio)	N	-45.478	-45.478	-45.478	-45.478	-45.478	-45.478	-45.478
		Vy	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vz	-12.397	-12.397	-12.397	-12.397	-12.397	-12.397	-12.397
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-26.07	-23.74	-21.42	-19.10	-16.78	-14.46	-12.13
		Mz	-0.08	-0.06	-0.05	-0.03	-0.02	0.00	0.01
	Multidão - TB450	N	-148.505	-148.505	-148.505	-148.505	-148.505	-148.505	-148.505
		Vy	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287
		Vz	-40.464	-40.464	-40.464	-40.464	-40.464	-40.464	-40.464
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-85.10	-77.52	-69.94	-62.36	-54.78	-47.20	-39.62
		Mz	-0.26	-0.21	-0.15	-0.10	-0.05	0.01	0.06
	TB-450-A1	N	-29.129	-29.129	-29.129	-29.129	-29.129	-29.129	-29.129
		Vy	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vz	-9.523	-9.523	-9.523	-9.523	-9.523	-9.523	-9.523
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-8.12	-6.34	-4.56	-2.77	-0.99	0.80	2.58

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.13	0.12	0.11	0.10	0.09	0.09	0.08
	TB-450-A2	N	-69.784	-69.784	-69.784	-69.784	-69.784	-69.784	-69.784
		Vy	0.131	0.131	0.131	0.131	0.131	0.131	0.131
		Vz	-22.596	-22.596	-22.596	-22.596	-22.596	-22.596	-22.596
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-19.23	-15.00	-10.77	-6.54	-2.30	1.93	6.16
		Mz	0.09	0.07	0.05	0.02	0.00	-0.03	-0.05
	TB-450-B1	N	-38.155	-38.155	-38.155	-38.155	-38.155	-38.155	-38.155
		Vy	-0.237	-0.237	-0.237	-0.237	-0.237	-0.237	-0.237
		Vz	-10.727	-10.727	-10.727	-10.727	-10.727	-10.727	-10.727
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.06	-22.05	-20.04	-18.03	-16.02	-14.01	-12.00
		Mz	-0.18	-0.14	-0.09	-0.05	-0.01	0.04	0.08
	TB-450-B2	N	-91.748	-91.748	-91.748	-91.748	-91.748	-91.748	-91.748
		Vy	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090
		Vz	-25.658	-25.658	-25.658	-25.658	-25.658	-25.658	-25.658
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-57.22	-52.41	-47.61	-42.80	-38.00	-33.19	-28.39
		Mz	-0.16	-0.14	-0.13	-0.11	-0.09	-0.08	-0.06
	TB-450-C1	N	-66.933	-66.933	-66.933	-66.933	-66.933	-66.933	-66.933
		Vy	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087	-0.087
		Vz	-15.899	-15.899	-15.899	-15.899	-15.899	-15.899	-15.899
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-46.84	-43.86	-40.89	-37.91	-34.93	-31.95	-28.97
		Mz	-0.10	-0.09	-0.07	-0.05	-0.04	-0.02	0.00
	TB-450-C2	N	-27.731	-27.731	-27.731	-27.731	-27.731	-27.731	-27.731
		Vy	-0.253	-0.253	-0.253	-0.253	-0.253	-0.253	-0.253
		Vz	-6.568	-6.568	-6.568	-6.568	-6.568	-6.568	-6.568
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-19.66	-18.43	-17.20	-15.97	-14.74	-13.51	-12.28
		Mz	-0.18	-0.14	-0.09	-0.04	0.01	0.05	0.10
	TB-450-D1	N	-16.586	-16.586	-16.586	-16.586	-16.586	-16.586	-16.586
		Vy	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171
		Vz	-3.901	-3.901	-3.901	-3.901	-3.901	-3.901	-3.901
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	-11.86	-11.13	-10.40	-9.67	-8.94	-8.21	-7.48
		Mz	-0.14	-0.11	-0.08	-0.04	-0.01	0.02	0.05
	TB-450-D2	N	-40.444	-40.444	-40.444	-40.444	-40.444	-40.444	-40.444
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	-9.569	-9.569	-9.569	-9.569	-9.569	-9.569	-9.569
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-28.45	-26.65	-24.86	-23.07	-21.28	-19.48	-17.69
		Mz	-0.07	-0.06	-0.05	-0.05	-0.04	-0.03	-0.03
	TB-450-E1	N	-4.926	-4.926	-4.926	-4.926	-4.926	-4.926	-4.926
		Vy	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Vz	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144	-1.144
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.51	-3.29	-3.08	-2.86	-2.65	-2.44	-2.22
		Mz	-0.05	-0.04	-0.03	-0.02	-0.01	0.00	0.01
	TB-450-E2	N	-13.993	-13.993	-13.993	-13.993	-13.993	-13.993	-13.993
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-3.304	-3.304	-3.304	-3.304	-3.304	-3.304	-3.304
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.82	-9.20	-8.59	-7.97	-7.35	-6.73	-6.11
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N171/N43	Peso próprio	N	-159.677	-159.638	-159.598
		Vy	-0.347	-0.347	-0.347
		Vz	-162.637	-162.188	-161.740
		Mt	-0.01	-0.01	-0.01
		My	-41.35	-21.05	-0.80
		Mz	0.17	0.21	0.26
	Guarda Corpo	N	-44.141	-44.141	-44.141
		Vy	-0.066	-0.066	-0.066
		Vz	-45.731	-45.731	-45.731
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-11.85	-6.14	-0.42
		Mz	0.01	0.02	0.03
	Laje	N	-327.850	-327.850	-327.850
		Vy	-0.499	-0.499	-0.499
		Vz	-339.672	-339.672	-339.672
		Mt	-0.01	-0.01	-0.01
		My	-88.01	-45.55	-3.09
		Mz	0.10	0.16	0.22
	Pavimentação	N	-179.780	-179.780	-179.780
		Vy	-0.274	-0.274	-0.274
		Vz	-186.402	-186.402	-186.402
		Mt	0.00	0.00	0.00
		My	-48.37	-25.07	-1.77
		Mz	0.05	0.09	0.12
	Recapeamento	N	-81.348	-81.348	-81.348
		Vy	-0.124	-0.124	-0.124
		Vz	-84.286	-84.286	-84.286
		Mt	0.00	0.00	0.00
		My	-21.84	-11.31	-0.77
		Mz	0.02	0.04	0.05
	Vento 0	N	21.009	21.009	21.009
		Vy	-3.701	-3.701	-3.701
		Vz	17.975	17.975	17.975
		Mt	-0.10	-0.10	-0.10
		My	5.67	3.43	1.18
		Mz	0.90	1.36	1.82
	Vento 180	N	-22.408	-22.439	-22.470
		Vy	7.621	7.729	7.837
		Vz	-18.654	-18.651	-18.649
		Mt	0.48	0.48	0.48
		My	-5.69	-3.36	-1.03
		Mz	-1.34	-2.30	-3.27
	Multidão (Passeio)	N	-57.264	-57.264	-57.264
		Vy	-0.083	-0.083	-0.083

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-59.320	-59.320	-59.320
		Mt	0.00	0.00	0.00
		My	-15.37	-7.96	-0.54
		Mz	0.01	0.02	0.03
	Multidão - TB450	N	-187.015	-187.015	-187.015
		Vy	-0.291	-0.291	-0.291
		Vz	-193.787	-193.787	-193.787
		Mt	0.00	0.00	0.00
		My	-50.21	-25.99	-1.77
		Mz	0.06	0.10	0.13
	TB-450-A1	N	-30.362	-30.362	-30.362
		Vy	0.041	0.041	0.041
		Vz	-13.596	-13.596	-13.596
		Mt	0.01	0.01	0.01
		My	2.24	3.94	5.64
		Mz	0.08	0.07	0.07
	TB-450-A2	N	-72.684	-72.684	-72.684
		Vy	0.133	0.133	0.133
		Vz	-32.162	-32.162	-32.162
		Mt	-0.01	-0.01	-0.01
		My	5.36	9.38	13.40
		Mz	-0.05	-0.07	-0.09
	TB-450-B1	N	-50.334	-50.334	-50.334
		Vy	-0.242	-0.242	-0.242
		Vz	-59.501	-59.501	-59.501
		Mt	0.00	0.00	0.00
		My	-15.35	-7.91	-0.47
		Mz	0.08	0.11	0.14
	TB-450-B2	N	-120.429	-120.429	-120.429
		Vy	-0.087	-0.087	-0.087
		Vz	-140.491	-140.491	-140.491
		Mt	0.00	0.00	0.00
		My	-36.27	-18.71	-1.15
		Mz	-0.06	-0.05	-0.04

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-C1	N	-89.616	-89.616	-89.616
		Vy	-0.083	-0.083	-0.083
		Vz	-106.921	-106.921	-106.921
		Mt	-0.01	-0.01	-0.01
		My	-35.21	-21.85	-8.48
		Mz	0.00	0.01	0.02
	TB-450-C2	N	-37.435	-37.435	-37.435
		Vy	-0.260	-0.260	-0.260
		Vz	-45.523	-45.523	-45.523
		Mt	0.00	0.00	0.00
		My	-14.95	-9.26	-3.57
		Mz	0.10	0.13	0.17
	TB-450-D1	N	-22.462	-22.462	-22.462
		Vy	-0.174	-0.174	-0.174
		Vz	-27.493	-27.493	-27.493
		Mt	0.00	0.00	0.00
		My	-9.09	-5.66	-2.22
		Mz	0.05	0.07	0.10
	TB-450-D2	N	-54.179	-54.179	-54.179
		Vy	-0.035	-0.035	-0.035
		Vz	-64.687	-64.687	-64.687
		Mt	0.00	0.00	0.00
		My	-21.47	-13.38	-5.30
		Mz	-0.03	-0.02	-0.02
	TB-450-E1	N	-6.677	-6.677	-6.677
		Vy	-0.052	-0.052	-0.052
		Vz	-8.176	-8.176	-8.176
		Mt	0.00	0.00	0.00
		My	-2.70	-1.68	-0.66
		Mz	0.01	0.02	0.02
	TB-450-E2	N	-18.733	-18.733	-18.733
		Vy	-0.007	-0.007	-0.007
		Vz	-22.321	-22.321	-22.321
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-7.41	-4.62	-1.83
		Mz	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N41/N241	Peso próprio	N	-96.468	-96.429	-96.389
		Vy	1.016	1.016	1.016
		Vz	-253.313	-252.864	-252.416
		Mt	0.17	0.17	0.17
		My	-124.67	-93.04	-61.46
		Mz	1.55	1.42	1.29
	Guarda Corpo	N	-26.007	-26.007	-26.007
		Vy	0.105	0.105	0.105
		Vz	-71.374	-71.374	-71.374
		Mt	0.05	0.05	0.05
		My	-33.60	-24.68	-15.76
		Mz	0.26	0.25	0.24
	Laje	N	-193.124	-193.124	-193.124
		Vy	0.777	0.777	0.777
		Vz	-529.900	-529.900	-529.900
		Mt	0.34	0.34	0.34
		My	-249.54	-183.30	-117.06
		Mz	1.93	1.83	1.74
	Pavimentação	N	-105.594	-105.594	-105.594
		Vy	0.426	0.426	0.426
		Vz	-289.745	-289.745	-289.745
		Mt	0.19	0.19	0.19
		My	-136.45	-100.23	-64.01
		Mz	1.06	1.00	0.95
	Recapeamento	N	-47.917	-47.917	-47.917
		Vy	0.193	0.193	0.193
		Vz	-131.473	-131.473	-131.473

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.09	0.09	0.09
		My	-61.91	-45.48	-29.05
		Mz	0.48	0.45	0.43
	Vento 0	N	-11.534	-11.503	-11.472
		Vy	0.344	0.236	0.128
		Vz	-24.689	-24.692	-24.694
		Mt	3.44	3.44	3.44
		My	-13.33	-10.25	-7.16
		Mz	-6.50	-6.53	-6.56
	Vento 180	N	10.460	10.460	10.460
		Vy	3.286	3.286	3.286
		Vz	25.050	25.050	25.050
		Mt	-3.27	-3.27	-3.27
		My	14.20	11.07	7.94
		Mz	6.98	6.57	6.16
	Multidão (Passeio)	N	-33.748	-33.748	-33.748
		Vy	0.137	0.137	0.137
		Vz	-92.643	-92.643	-92.643
		Mt	0.06	0.06	0.06
		My	-43.59	-32.01	-20.43
		Mz	0.34	0.33	0.31
	Multidão - TB450	N	-110.135	-110.135	-110.135
		Vy	0.441	0.441	0.441
		Vz	-302.130	-302.130	-302.130
		Mt	0.20	0.20	0.20
		My	-142.32	-104.56	-66.79
		Mz	1.09	1.04	0.98
	TB-450-A1	N	-57.040	-57.040	-57.040
		Vy	0.246	0.246	0.246
		Vz	-152.179	-152.179	-152.179
		Mt	0.18	0.18	0.18
		My	-68.87	-49.85	-30.82
		Mz	0.66	0.63	0.59
	TB-450-A2	N	-24.121	-24.121	-24.121

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.275	0.275	0.275
		Vz	-64.248	-64.248	-64.248
		Mt	0.18	0.18	0.18
		My	-29.12	-21.09	-13.06
		Mz	0.64	0.61	0.57
	TB-450-B1	N	-66.466	-66.466	-66.466
		Vy	0.054	0.054	0.054
		Vz	-183.129	-183.129	-183.129
		Mt	0.13	0.13	0.13
		My	-87.28	-64.39	-41.50
		Mz	0.24	0.23	0.22
	TB-450-B2	N	-27.643	-27.643	-27.643
		Vy	0.194	0.194	0.194
		Vz	-77.553	-77.553	-77.553
		Mt	-0.09	-0.09	-0.09
		My	-36.40	-26.71	-17.02
		Mz	0.39	0.37	0.34
	TB-450-C1	N	-19.585	-19.585	-19.585
		Vy	0.196	0.196	0.196
		Vz	-55.449	-55.449	-55.449
		Mt	-0.12	-0.12	-0.12
		My	-26.03	-19.10	-12.17
		Mz	0.40	0.38	0.35
	TB-450-C2	N	-47.722	-47.722	-47.722
		Vy	0.034	0.034	0.034
		Vz	-131.146	-131.146	-131.146
		Mt	0.16	0.16	0.16
		My	-63.50	-47.10	-30.71
		Mz	0.16	0.15	0.15
	TB-450-D1	N	-28.984	-28.984	-28.984
		Vy	0.004	0.004	0.004
		Vz	-79.536	-79.536	-79.536
		Mt	0.11	0.11	0.11
		My	-38.63	-28.69	-18.75

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.08	0.08	0.08
	TB-450-D2	N	-11.839	-11.839	-11.839
		Vy	0.134	0.134	0.134
		Vz	-33.800	-33.800	-33.800
		Mt	-0.07	-0.07	-0.07
		My	-15.73	-11.50	-7.28
		Mz	0.28	0.26	0.25
	TB-450-E1	N	-8.365	-8.365	-8.365
		Vy	0.001	0.001	0.001
		Vz	-22.902	-22.902	-22.902
		Mt	0.04	0.04	0.04
		My	-11.20	-8.34	-5.47
		Mz	0.01	0.01	0.01
	TB-450-E2	N	-3.834	-3.834	-3.834
		Vy	0.053	0.053	0.053
		Vz	-11.057	-11.057	-11.057
		Mt	0.00	0.00	0.00
		My	-5.12	-3.74	-2.35
		Mz	0.10	0.10	0.09

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N241/N34	Peso próprio	N	-124.211	-124.152	-124.094	-124.035	-123.976	-123.917	-123.858
		Vy	0.989	0.989	0.989	0.989	0.989	0.989	0.989
		Vz	-45.149	-44.478	-43.806	-43.134	-42.462	-41.791	-41.119
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-108.17	-99.77	-91.51	-83.36	-75.35	-67.46	-59.69
		Mz	1.28	1.09	0.91	0.72	0.54	0.35	0.17
	Guarda Corpo	N	-34.465	-34.465	-34.465	-34.465	-34.465	-34.465	-34.465
		Vy	0.099	0.099	0.099	0.099	0.099	0.099	0.099
		Vz	-11.178	-11.178	-11.178	-11.178	-11.178	-11.178	-11.178
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-29.81	-27.72	-25.63	-23.53	-21.44	-19.35	-17.25

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.23	0.21	0.19	0.17	0.16	0.14	0.12
	Laje	N	-255.909	-255.909	-255.909	-255.909	-255.909	-255.909	-255.909
		Vy	0.734	0.734	0.734	0.734	0.734	0.734	0.734
		Vz	-83.012	-83.012	-83.012	-83.012	-83.012	-83.012	-83.012
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-221.39	-205.84	-190.30	-174.75	-159.20	-143.65	-128.10
		Mz	1.69	1.56	1.42	1.28	1.14	1.01	0.87
	Pavimentação	N	-139.934	-139.934	-139.934	-139.934	-139.934	-139.934	-139.934
		Vy	0.402	0.402	0.402	0.402	0.402	0.402	0.402
		Vz	-45.385	-45.385	-45.385	-45.385	-45.385	-45.385	-45.385
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-121.09	-112.59	-104.09	-95.58	-87.08	-78.58	-70.08
		Mz	0.93	0.85	0.78	0.70	0.63	0.55	0.48
	Recapeamento	N	-63.494	-63.494	-63.494	-63.494	-63.494	-63.494	-63.494
		Vy	0.182	0.182	0.182	0.182	0.182	0.182	0.182
		Vz	-20.596	-20.596	-20.596	-20.596	-20.596	-20.596	-20.596
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-54.93	-51.07	-47.22	-43.36	-39.50	-35.64	-31.79
		Mz	0.42	0.39	0.35	0.32	0.28	0.25	0.22
	Vento 0	N	-13.959	-13.913	-13.866	-13.820	-13.773	-13.726	-13.680
		Vy	-2.958	-3.120	-3.282	-3.444	-3.606	-3.768	-3.930
		Vz	-3.499	-3.503	-3.507	-3.511	-3.515	-3.519	-3.523
		Mt	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		My	-11.94	-11.28	-10.63	-9.97	-9.31	-8.65	-7.99
		Mz	-7.11	-6.54	-5.94	-5.31	-4.65	-3.96	-3.23
	Vento 180	N	13.600	13.600	13.600	13.600	13.600	13.600	13.600
		Vy	3.606	3.606	3.606	3.606	3.606	3.606	3.606
		Vz	4.362	4.362	4.362	4.362	4.362	4.362	4.362
		Mt	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
		My	13.22	12.40	11.58	10.77	9.95	9.13	8.31
		Mz	6.76	6.08	5.41	4.73	4.05	3.38	2.70
	Multidão (Passeio)	N	-44.729	-44.729	-44.729	-44.729	-44.729	-44.729	-44.729
		Vy	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Vz	-14.504	-14.504	-14.504	-14.504	-14.504	-14.504	-14.504
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	-38.69	-35.97	-33.26	-30.54	-27.82	-25.11	-22.39
		Mz	0.30	0.28	0.25	0.23	0.20	0.18	0.16
	Multidão - TB450	N	-145.929	-145.929	-145.929	-145.929	-145.929	-145.929	-145.929
		Vy	0.416	0.416	0.416	0.416	0.416	0.416	0.416
		Vz	-47.342	-47.342	-47.342	-47.342	-47.342	-47.342	-47.342
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-126.26	-117.39	-108.53	-99.66	-90.79	-81.93	-73.06
		Mz	0.96	0.88	0.80	0.72	0.65	0.57	0.49
	TB-450-A1	N	-69.732	-69.732	-69.732	-69.732	-69.732	-69.732	-69.732
		Vy	0.228	0.228	0.228	0.228	0.228	0.228	0.228
		Vz	-24.076	-24.076	-24.076	-24.076	-24.076	-24.076	-24.076
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-43.87	-39.36	-34.85	-30.34	-25.84	-21.33	-16.82
		Mz	0.57	0.52	0.48	0.44	0.39	0.35	0.31
	TB-450-A2	N	-29.475	-29.475	-29.475	-29.475	-29.475	-29.475	-29.475
		Vy	0.245	0.245	0.245	0.245	0.245	0.245	0.245
		Vz	-10.173	-10.173	-10.173	-10.173	-10.173	-10.173	-10.173
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-18.55	-16.64	-14.74	-12.83	-10.93	-9.02	-7.12
		Mz	0.56	0.52	0.47	0.43	0.38	0.33	0.29
	TB-450-B1	N	-89.906	-89.906	-89.906	-89.906	-89.906	-89.906	-89.906
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	-30.490	-30.490	-30.490	-30.490	-30.490	-30.490	-30.490
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-83.41	-77.70	-71.99	-66.28	-60.56	-54.85	-49.14
		Mz	0.20	0.19	0.18	0.18	0.17	0.16	0.15
	TB-450-B2	N	-37.616	-37.616	-37.616	-37.616	-37.616	-37.616	-37.616
		Vy	0.201	0.201	0.201	0.201	0.201	0.201	0.201
		Vz	-12.761	-12.761	-12.761	-12.761	-12.761	-12.761	-12.761
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-34.96	-32.57	-30.18	-27.79	-25.40	-23.01	-20.62
		Mz	0.36	0.32	0.29	0.25	0.21	0.17	0.14
	TB-450-C1	N	-27.028	-27.028	-27.028	-27.028	-27.028	-27.028	-27.028
		Vy	0.206	0.206	0.206	0.206	0.206	0.206	0.206
		Vz	-8.093	-8.093	-8.093	-8.093	-8.093	-8.093	-8.093

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-25.82	-24.30	-22.78	-21.27	-19.75	-18.24	-16.72
		Mz	0.37	0.33	0.30	0.26	0.22	0.18	0.14
	TB-450-C2	N	-65.170	-65.170	-65.170	-65.170	-65.170	-65.170	-65.170
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-19.656	-19.656	-19.656	-19.656	-19.656	-19.656	-19.656
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-62.34	-58.66	-54.98	-51.30	-47.62	-43.93	-40.25
		Mz	0.12	0.12	0.11	0.11	0.11	0.10	0.10
	TB-450-D1	N	-39.576	-39.576	-39.576	-39.576	-39.576	-39.576	-39.576
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-11.909	-11.909	-11.909	-11.909	-11.909	-11.909	-11.909
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-37.95	-35.72	-33.49	-31.25	-29.02	-26.79	-24.56
		Mz	0.06	0.06	0.06	0.06	0.06	0.06	0.06
	TB-450-D2	N	-16.396	-16.396	-16.396	-16.396	-16.396	-16.396	-16.396
		Vy	0.140	0.140	0.140	0.140	0.140	0.140	0.140
		Vz	-4.881	-4.881	-4.881	-4.881	-4.881	-4.881	-4.881
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.67	-14.75	-13.84	-12.92	-12.01	-11.10	-10.18
		Mz	0.26	0.23	0.21	0.18	0.16	0.13	0.10
	TB-450-E1	N	-11.409	-11.409	-11.409	-11.409	-11.409	-11.409	-11.409
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-3.447	-3.447	-3.447	-3.447	-3.447	-3.447	-3.447
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.98	-10.33	-9.69	-9.04	-8.39	-7.75	-7.10
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-E2	N	-5.327	-5.327	-5.327	-5.327	-5.327	-5.327	-5.327
		Vy	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Vz	-1.590	-1.590	-1.590	-1.590	-1.590	-1.590	-1.590
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.11	-4.81	-4.51	-4.21	-3.92	-3.62	-3.32
		Mz	0.09	0.08	0.07	0.06	0.05	0.04	0.03

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N34/N240	Peso próprio	N	-123.858	-123.799	-123.740	-123.681	-123.622	-123.563	-123.505
		Vy	0.989	0.989	0.989	0.989	0.989	0.989	0.989
		Vz	-41.119	-40.447	-39.776	-39.104	-38.432	-37.760	-37.089
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-59.69	-52.05	-44.54	-37.15	-29.89	-22.76	-15.75
		Mz	0.17	-0.02	-0.20	-0.39	-0.57	-0.76	-0.94
	Guarda Corpo	N	-34.465	-34.465	-34.465	-34.465	-34.465	-34.465	-34.465
		Vy	0.099	0.099	0.099	0.099	0.099	0.099	0.099
		Vz	-11.178	-11.178	-11.178	-11.178	-11.178	-11.178	-11.178
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.25	-15.16	-13.07	-10.97	-8.88	-6.79	-4.69
		Mz	0.12	0.10	0.08	0.06	0.04	0.03	0.01
	Laje	N	-255.909	-255.909	-255.909	-255.909	-255.909	-255.909	-255.909
		Vy	0.734	0.734	0.734	0.734	0.734	0.734	0.734
		Vz	-83.012	-83.012	-83.012	-83.012	-83.012	-83.012	-83.012
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	-128.10	-112.56	-97.01	-81.46	-65.91	-50.37	-34.82
		Mz	0.87	0.73	0.59	0.46	0.32	0.18	0.04
	Pavimentação	N	-139.934	-139.934	-139.934	-139.934	-139.934	-139.934	-139.934
		Vy	0.402	0.402	0.402	0.402	0.402	0.402	0.402
		Vz	-45.385	-45.385	-45.385	-45.385	-45.385	-45.385	-45.385
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-70.08	-61.58	-53.08	-44.58	-36.08	-27.58	-19.08
		Mz	0.48	0.40	0.32	0.25	0.17	0.10	0.02
	Recapeamento	N	-63.494	-63.494	-63.494	-63.494	-63.494	-63.494	-63.494
		Vy	0.182	0.182	0.182	0.182	0.182	0.182	0.182
		Vz	-20.596	-20.596	-20.596	-20.596	-20.596	-20.596	-20.596
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-31.79	-27.93	-24.07	-20.21	-16.36	-12.50	-8.64
		Mz	0.22	0.18	0.15	0.11	0.08	0.04	0.01
	Vento 0	N	-13.680	-13.633	-13.587	-13.540	-13.494	-13.447	-13.401
		Vy	-3.930	-4.092	-4.254	-4.416	-4.578	-4.740	-4.902
		Vz	-3.523	-3.527	-3.531	-3.535	-3.540	-3.544	-3.548
		Mt	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		My	-7.99	-7.33	-6.67	-6.01	-5.35	-4.69	-4.02
		Mz	-3.23	-2.48	-1.70	-0.89	-0.05	0.83	1.73

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Vento 180	N	13.600	13.600	13.600	13.600	13.600	13.600	13.600
		Vy	3.606	3.606	3.606	3.606	3.606	3.606	3.606
		Vz	4.362	4.362	4.362	4.362	4.362	4.362	4.362
		Mt	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
		My	8.31	7.50	6.68	5.86	5.05	4.23	3.41
		Mz	2.70	2.03	1.35	0.68	0.00	-0.67	-1.35
	Multidão (Passeio)	N	-44.729	-44.729	-44.729	-44.729	-44.729	-44.729	-44.729
		Vy	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Vz	-14.504	-14.504	-14.504	-14.504	-14.504	-14.504	-14.504
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-22.39	-19.67	-16.96	-14.24	-11.52	-8.81	-6.09
		Mz	0.16	0.13	0.11	0.08	0.06	0.03	0.01
	Multidão - TB450	N	-145.929	-145.929	-145.929	-145.929	-145.929	-145.929	-145.929
		Vy	0.416	0.416	0.416	0.416	0.416	0.416	0.416
		Vz	-47.342	-47.342	-47.342	-47.342	-47.342	-47.342	-47.342
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-73.06	-64.19	-55.33	-46.46	-37.59	-28.73	-19.86
		Mz	0.49	0.41	0.33	0.26	0.18	0.10	0.02
	TB-450-A1	N	-69.732	-69.732	-69.732	-69.732	-69.732	-69.732	-69.732
		Vy	0.228	0.228	0.228	0.228	0.228	0.228	0.228
		Vz	-24.076	-24.076	-24.076	-24.076	-24.076	-24.076	-24.076
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-16.82	-12.31	-7.80	-3.29	1.22	5.73	10.24
		Mz	0.31	0.27	0.22	0.18	0.14	0.10	0.05
	TB-450-A2	N	-29.475	-29.475	-29.475	-29.475	-29.475	-29.475	-29.475
		Vy	0.245	0.245	0.245	0.245	0.245	0.245	0.245
		Vz	-10.173	-10.173	-10.173	-10.173	-10.173	-10.173	-10.173
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.12	-5.21	-3.31	-1.40	0.50	2.41	4.32
		Mz	0.29	0.24	0.20	0.15	0.11	0.06	0.01
	TB-450-B1	N	-89.906	-89.906	-89.906	-89.906	-89.906	-89.906	-89.906
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	-30.490	-30.490	-30.490	-30.490	-30.490	-30.490	-30.490
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-49.14	-43.43	-37.72	-32.01	-26.30	-20.59	-14.88

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.15	0.14	0.14	0.13	0.12	0.11	0.10
	TB-450-B2	N	-37.616	-37.616	-37.616	-37.616	-37.616	-37.616	-37.616
		Vy	0.201	0.201	0.201	0.201	0.201	0.201	0.201
		Vz	-12.761	-12.761	-12.761	-12.761	-12.761	-12.761	-12.761
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-20.62	-18.23	-15.84	-13.45	-11.06	-8.67	-6.28
		Mz	0.14	0.10	0.06	0.02	-0.01	-0.05	-0.09
	TB-450-C1	N	-27.028	-27.028	-27.028	-27.028	-27.028	-27.028	-27.028
		Vy	0.206	0.206	0.206	0.206	0.206	0.206	0.206
		Vz	-8.093	-8.093	-8.093	-8.093	-8.093	-8.093	-8.093
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-16.72	-15.20	-13.69	-12.17	-10.66	-9.14	-7.63
		Mz	0.14	0.10	0.06	0.03	-0.01	-0.05	-0.09
	TB-450-C2	N	-65.170	-65.170	-65.170	-65.170	-65.170	-65.170	-65.170
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-19.656	-19.656	-19.656	-19.656	-19.656	-19.656	-19.656
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-40.25	-36.57	-32.89	-29.21	-25.53	-21.84	-18.16
		Mz	0.10	0.10	0.09	0.09	0.08	0.08	0.08
	TB-450-D1	N	-39.576	-39.576	-39.576	-39.576	-39.576	-39.576	-39.576
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	-11.909	-11.909	-11.909	-11.909	-11.909	-11.909	-11.909
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-24.56	-22.33	-20.10	-17.87	-15.64	-13.41	-11.18
		Mz	0.06	0.06	0.07	0.07	0.07	0.07	0.07
	TB-450-D2	N	-16.396	-16.396	-16.396	-16.396	-16.396	-16.396	-16.396
		Vy	0.140	0.140	0.140	0.140	0.140	0.140	0.140
		Vz	-4.881	-4.881	-4.881	-4.881	-4.881	-4.881	-4.881
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.18	-9.27	-8.35	-7.44	-6.52	-5.61	-4.70
		Mz	0.10	0.08	0.05	0.02	0.00	-0.03	-0.05
	TB-450-E1	N	-11.409	-11.409	-11.409	-11.409	-11.409	-11.409	-11.409
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-3.447	-3.447	-3.447	-3.447	-3.447	-3.447	-3.447
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	-7.10	-6.46	-5.81	-5.17	-4.52	-3.87	-3.23
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-E2	N	-5.327	-5.327	-5.327	-5.327	-5.327	-5.327	-5.327
		Vy	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Vz	-1.590	-1.590	-1.590	-1.590	-1.590	-1.590	-1.590
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.32	-3.02	-2.73	-2.43	-2.13	-1.83	-1.53
		Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N240/N42	Peso próprio	N	-161.099	-161.060	-161.021
		Vy	1.005	1.005	1.005
		Vz	-161.642	-161.194	-160.745
		Mt	0.10	0.10	0.10
		My	-51.12	-30.95	-10.82
		Mz	-0.96	-1.09	-1.21
	Guarda Corpo	N	-44.769	-44.769	-44.769
		Vy	0.100	0.100	0.100
		Vz	-45.377	-45.377	-45.377
		Mt	0.01	0.01	0.01
		My	-14.60	-8.92	-3.25
		Mz	0.01	-0.01	-0.02
	Laje	N	-332.390	-332.390	-332.390
		Vy	0.735	0.735	0.735
		Vz	-336.842	-336.842	-336.842
		Mt	0.05	0.05	0.05
		My	-108.35	-66.24	-24.14
		Mz	0.04	-0.05	-0.15
	Pavimentação	N	-181.782	-181.782	-181.782
		Vy	0.403	0.403	0.403
		Vz	-184.284	-184.284	-184.284
		Mt	0.02	0.02	0.02

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-59.31	-36.27	-13.24
		Mz	0.02	-0.03	-0.08
	Recapeamento	N	-82.472	-82.472	-82.472
		Vy	0.182	0.182	0.182
		Vz	-83.581	-83.581	-83.581
		Mt	0.01	0.01	0.01
		My	-26.89	-16.44	-5.99
		Mz	0.01	-0.01	-0.04
	Vento 0	N	-17.375	-17.344	-17.313
		Vy	-7.700	-7.808	-7.916
		Vz	-19.582	-19.585	-19.588
		Mt	-0.85	-0.85	-0.85
		My	-7.47	-5.02	-2.58
		Mz	1.85	2.82	3.80
	Vento 180	N	18.322	18.322	18.322
		Vy	3.812	3.812	3.812
		Vz	20.247	20.247	20.247
		Mt	0.49	0.49	0.49
		My	7.82	5.29	2.76
		Mz	-1.47	-1.95	-2.42
	Multidão (Passeio)	N	-58.106	-58.106	-58.106
		Vy	0.130	0.130	0.130
		Vz	-58.903	-58.903	-58.903
		Mt	0.01	0.01	0.01
		My	-18.95	-11.59	-4.22
		Mz	0.01	-0.01	-0.02
	Multidão - TB450	N	-189.535	-189.535	-189.535
		Vy	0.416	0.416	0.416
		Vz	-192.062	-192.062	-192.062
		Mt	0.02	0.02	0.02
		My	-61.78	-37.78	-13.77
		Mz	0.02	-0.03	-0.09
	TB-450-A1	N	-73.710	-73.710	-73.710
		Vy	0.224	0.224	0.224

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-31.946	-31.946	-31.946
		Mt	0.03	0.03	0.03
		My	2.94	6.94	10.93
		Mz	0.05	0.02	-0.01
	TB-450-A2	N	-31.149	-31.149	-31.149
		Vy	0.247	0.247	0.247
		Vz	-13.473	-13.473	-13.473
		Mt	0.01	0.01	0.01
		My	1.24	2.92	4.61
		Mz	0.01	-0.02	-0.05
	TB-450-B1	N	-122.300	-122.300	-122.300
		Vy	0.038	0.038	0.038
		Vz	-140.092	-140.092	-140.092
		Mt	0.00	0.00	0.00
		My	-44.54	-27.03	-9.52
		Mz	0.11	0.10	0.10
	TB-450-B2	N	-51.357	-51.357	-51.357
		Vy	0.207	0.207	0.207
		Vz	-59.274	-59.274	-59.274
		Mt	0.00	0.00	0.00
		My	-18.84	-11.43	-4.02
		Mz	-0.09	-0.12	-0.14
	TB-450-C1	N	-37.838	-37.838	-37.838
		Vy	0.214	0.214	0.214
		Vz	-44.744	-44.744	-44.744
		Mt	0.00	0.00	0.00
		My	-17.54	-11.95	-6.35
		Mz	-0.09	-0.12	-0.15
	TB-450-C2	N	-90.671	-90.671	-90.671
		Vy	0.014	0.014	0.014
		Vz	-106.043	-106.043	-106.043
		Mt	0.00	0.00	0.00
		My	-41.61	-28.35	-15.10
		Mz	0.08	0.08	0.07

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-D1	N	-55.098	-55.098	-55.098
		Vy	-0.010	-0.010	-0.010
		Vz	-64.488	-64.488	-64.488
		Mt	0.00	0.00	0.00
		My	-25.45	-17.39	-9.33
		Mz	0.07	0.07	0.07
	TB-450-D2	N	-23.014	-23.014	-23.014
		Vy	0.145	0.145	0.145
		Vz	-27.330	-27.330	-27.330
		Mt	0.01	0.01	0.01
		My	-10.76	-7.35	-3.93
		Mz	-0.06	-0.08	-0.09
	TB-450-E1	N	-15.877	-15.877	-15.877
		Vy	-0.005	-0.005	-0.005
		Vz	-18.580	-18.580	-18.580
		Mt	0.00	0.00	0.00
		My	-7.34	-5.02	-2.69
		Mz	0.01	0.01	0.01
	TB-450-E2	N	-7.494	-7.494	-7.494
		Vy	0.055	0.055	0.055
		Vz	-8.939	-8.939	-8.939
		Mt	0.01	0.01	0.01
		My	-3.52	-2.40	-1.28
		Mz	-0.03	-0.04	-0.05

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N42/N239	Peso próprio	N	-163.558	-163.531	-163.505
		Vy	-0.670	-0.670	-0.670
		Vz	-151.982	-151.683	-151.384
		Mt	-0.03	-0.03	-0.03
		My	-10.87	8.11	27.05

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-1.24	-1.16	-1.08
	Guarda Corpo	N	-44.345	-44.345	-44.345
		Vy	-0.010	-0.010	-0.010
		Vz	-45.383	-45.383	-45.383
		Mt	0.00	0.00	0.00
		My	-3.22	2.45	8.12
		Mz	-0.02	-0.02	-0.02
	Laje	N	-329.225	-329.225	-329.225
		Vy	-0.104	-0.104	-0.104
		Vz	-336.886	-336.886	-336.886
		Mt	-0.02	-0.02	-0.02
		My	-23.90	18.21	60.32
		Mz	-0.16	-0.15	-0.14
	Pavimentação	N	-180.048	-180.048	-180.048
		Vy	-0.059	-0.059	-0.059
		Vz	-184.309	-184.309	-184.309
		Mt	-0.01	-0.01	-0.01
		My	-13.11	9.93	32.97
		Mz	-0.09	-0.08	-0.07
	Recapeamento	N	-81.687	-81.687	-81.687
		Vy	-0.026	-0.026	-0.026
		Vz	-83.592	-83.592	-83.592
		Mt	0.00	0.00	0.00
		My	-5.93	4.52	14.97
		Mz	-0.04	-0.04	-0.03
	Vento 0	N	-18.250	-18.219	-18.188
		Vy	4.051	3.943	3.835
		Vz	-19.292	-19.295	-19.298
		Mt	0.06	0.06	0.06
		My	-2.64	-0.23	2.18
		Mz	4.01	3.51	3.02
	Vento 180	N	16.592	16.592	16.592
		Vy	-0.065	-0.065	-0.065
		Vz	20.155	20.155	20.155

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.20	0.20	0.20
		My	2.63	0.11	-2.41
		Mz	-2.49	-2.48	-2.48
	Multidão (Passeio)	N	-57.558	-57.558	-57.558
		Vy	-0.007	-0.007	-0.007
		Vz	-58.911	-58.911	-58.911
		Mt	0.00	0.00	0.00
		My	-4.18	3.18	10.55
		Mz	-0.03	-0.03	-0.02
	Multidão - TB450	N	-187.723	-187.723	-187.723
		Vy	-0.075	-0.075	-0.075
		Vz	-192.088	-192.088	-192.088
		Mt	-0.01	-0.01	-0.01
		My	-13.63	10.38	34.39
		Mz	-0.09	-0.08	-0.08
	TB-450-A1	N	-73.431	-73.431	-73.431
		Vy	0.006	0.006	0.006
		Vz	-31.955	-31.955	-31.955
		Mt	0.02	0.02	0.02
		My	10.95	14.94	18.94
		Mz	-0.01	-0.01	-0.01
	TB-450-A2	N	-30.895	-30.895	-30.895
		Vy	-0.001	-0.001	-0.001
		Vz	-13.483	-13.483	-13.483
		Mt	-0.01	-0.01	-0.01
		My	4.62	6.31	7.99
		Mz	-0.05	-0.05	-0.05
	TB-450-B1	N	-121.515	-121.515	-121.515
		Vy	0.030	0.030	0.030
		Vz	-140.097	-140.097	-140.097
		Mt	0.00	0.00	0.00
		My	-9.46	8.06	25.57
		Mz	0.10	0.09	0.09
	TB-450-B2	N	-50.674	-50.674	-50.674

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.027	-0.027	-0.027
		Vz	-59.285	-59.285	-59.285
		Mt	-0.02	-0.02	-0.02
		My	-3.97	3.44	10.85
		Mz	-0.15	-0.14	-0.14
	TB-450-C1	N	-37.101	-37.101	-37.101
		Vy	-0.096	-0.096	-0.096
		Vz	-44.758	-44.758	-44.758
		Mt	-0.02	-0.02	-0.02
		My	-6.30	-0.70	4.89
		Mz	-0.15	-0.14	-0.13
	TB-450-C2	N	-89.823	-89.823	-89.823
		Vy	-0.080	-0.080	-0.080
		Vz	-106.051	-106.051	-106.051
		Mt	-0.01	-0.01	-0.01
		My	-15.03	-1.78	11.48
		Mz	0.07	0.08	0.09
	TB-450-D1	N	-54.538	-54.538	-54.538
		Vy	0.002	0.002	0.002
		Vz	-64.490	-64.490	-64.490
		Mt	0.00	0.00	0.00
		My	-9.29	-1.23	6.84
		Mz	0.07	0.07	0.07
	TB-450-D2	N	-22.566	-22.566	-22.566
		Vy	-0.016	-0.016	-0.016
		Vz	-27.337	-27.337	-27.337
		Mt	0.00	0.00	0.00
		My	-3.90	-0.48	2.94
		Mz	-0.10	-0.09	-0.09
	TB-450-E1	N	-15.728	-15.728	-15.728
		Vy	-0.002	-0.002	-0.002
		Vz	-18.581	-18.581	-18.581
		Mt	0.00	0.00	0.00
		My	-2.68	-0.36	1.96

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.02	0.02	0.02
	TB-450-E2	N	-7.366	-7.366	-7.366
		Vy	-0.007	-0.007	-0.007
		Vz	-8.941	-8.941	-8.941
		Mt	0.00	0.00	0.00
		My	-1.27	-0.16	0.96
		Mz	-0.05	-0.05	-0.05

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N239/N19	Peso próprio	N	-180.692	-180.653	-180.614	-180.574	-180.535	-180.496	-180.456
		Vy	-0.666	-0.666	-0.666	-0.666	-0.666	-0.666	-0.666
		Vz	-12.173	-11.725	-11.276	-10.828	-10.380	-9.931	-9.483
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.56	-3.32	-1.17	0.90	2.89	4.79	6.61
		Mz	-1.07	-0.95	-0.83	-0.70	-0.58	-0.45	-0.33
	Guarda Corpo	N	-49.562	-49.562	-49.562	-49.562	-49.562	-49.562	-49.562
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-2.817	-2.817	-2.817	-2.817	-2.817	-2.817	-2.817
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.44	-0.91	-0.39	0.14	0.67	1.20	1.72
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01
	Laje	N	-367.951	-367.951	-367.951	-367.951	-367.951	-367.951	-367.951
		Vy	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
		Vz	-20.908	-20.908	-20.908	-20.908	-20.908	-20.908	-20.908
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.69	-6.77	-2.85	1.06	4.98	8.89	12.81
		Mz	-0.14	-0.12	-0.11	-0.10	-0.08	-0.07	-0.06
	Pavimentação	N	-201.237	-201.237	-201.237	-201.237	-201.237	-201.237	-201.237
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	-11.439	-11.439	-11.439	-11.439	-11.439	-11.439	-11.439
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.89	-3.75	-1.60	0.54	2.68	4.82	6.97
		Mz	-0.07	-0.07	-0.06	-0.05	-0.04	-0.04	-0.03

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Recapeamento	N	-91.296	-91.296	-91.296	-91.296	-91.296	-91.296	-91.296
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	-5.188	-5.188	-5.188	-5.188	-5.188	-5.188	-5.188
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.65	-1.68	-0.71	0.26	1.23	2.20	3.18
		Mz	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01
	Vento 0	N	-19.841	-19.795	-19.748	-19.702	-19.655	-19.609	-19.562
		Vy	1.896	1.734	1.572	1.410	1.248	1.086	0.924
		Vz	-0.455	-0.459	-0.463	-0.467	-0.471	-0.475	-0.479
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-1.39	-1.30	-1.21	-1.13	-1.04	-0.95	-0.86
		Mz	3.05	2.71	2.40	2.12	1.88	1.66	1.47
	Vento 180	N	19.001	19.001	19.001	19.001	19.001	19.001	19.001
		Vy	-0.761	-0.761	-0.761	-0.761	-0.761	-0.761	-0.761
		Vz	1.103	1.103	1.103	1.103	1.103	1.103	1.103
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	2.08	1.87	1.66	1.46	1.25	1.04	0.84
		Mz	-2.48	-2.33	-2.19	-2.05	-1.91	-1.76	-1.62
	Multidão (Passeio)	N	-64.330	-64.330	-64.330	-64.330	-64.330	-64.330	-64.330
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-3.658	-3.658	-3.658	-3.658	-3.658	-3.658	-3.658
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.87	-1.19	-0.50	0.18	0.87	1.55	2.24
		Mz	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	Multidão - TB450	N	-209.804	-209.804	-209.804	-209.804	-209.804	-209.804	-209.804
		Vy	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Vz	-11.919	-11.919	-11.919	-11.919	-11.919	-11.919	-11.919
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.10	-3.86	-1.63	0.60	2.83	5.06	7.30
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02
	TB-450-A1	N	-76.454	-76.454	-76.454	-76.454	-76.454	-76.454	-76.454
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	1.232	1.232	1.232	1.232	1.232	1.232	1.232
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.27	14.04	13.81	13.58	13.35	13.12	12.89

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A2	N	-32.170	-32.170	-32.170	-32.170	-32.170	-32.170	-32.170
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	0.523	0.523	0.523	0.523	0.523	0.523	0.523
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.03	5.93	5.83	5.73	5.64	5.54	5.44
		Mz	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
	TB-450-B1	N	-137.001	-137.001	-137.001	-137.001	-137.001	-137.001	-137.001
		Vy	0.063	0.063	0.063	0.063	0.063	0.063	0.063
		Vz	-12.044	-12.044	-12.044	-12.044	-12.044	-12.044	-12.044
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.55	-0.29	1.97	4.22	6.48	8.73	10.99
		Mz	0.09	0.08	0.06	0.05	0.04	0.03	0.02
	TB-450-B2	N	-57.236	-57.236	-57.236	-57.236	-57.236	-57.236	-57.236
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-5.086	-5.086	-5.086	-5.086	-5.086	-5.086	-5.086
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.07	-0.12	0.83	1.79	2.74	3.69	4.64
		Mz	-0.14	-0.13	-0.13	-0.13	-0.12	-0.12	-0.11
	TB-450-C1	N	-42.537	-42.537	-42.537	-42.537	-42.537	-42.537	-42.537
		Vy	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095
		Vz	-2.805	-2.805	-2.805	-2.805	-2.805	-2.805	-2.805
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.35	-4.83	-4.30	-3.78	-3.25	-2.73	-2.20
		Mz	-0.13	-0.11	-0.09	-0.07	-0.05	-0.04	-0.02
	TB-450-C2	N	-102.675	-102.675	-102.675	-102.675	-102.675	-102.675	-102.675
		Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vz	-6.697	-6.697	-6.697	-6.697	-6.697	-6.697	-6.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.71	-11.46	-10.20	-8.95	-7.70	-6.44	-5.19
		Mz	0.09	0.10	0.11	0.12	0.12	0.13	0.14
	TB-450-D1	N	-62.392	-62.392	-62.392	-62.392	-62.392	-62.392	-62.392
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-3.836	-3.836	-3.836	-3.836	-3.836	-3.836	-3.836
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	-7.95	-7.23	-6.51	-5.79	-5.07	-4.35	-3.64
		Mz	0.07	0.07	0.07	0.06	0.06	0.06	0.05
	TB-450-D2	N	-25.904	-25.904	-25.904	-25.904	-25.904	-25.904	-25.904
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-1.618	-1.618	-1.618	-1.618	-1.618	-1.618	-1.618
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.35	-3.05	-2.75	-2.44	-2.14	-1.84	-1.53
		Mz	-0.09	-0.09	-0.08	-0.07	-0.07	-0.06	-0.06
	TB-450-E1	N	-17.990	-17.990	-17.990	-17.990	-17.990	-17.990	-17.990
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-1.102	-1.102	-1.102	-1.102	-1.102	-1.102	-1.102
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.30	-2.09	-1.88	-1.68	-1.47	-1.26	-1.06
		Mz	0.02	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-E2	N	-8.458	-8.458	-8.458	-8.458	-8.458	-8.458	-8.458
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.10	-1.00	-0.90	-0.80	-0.70	-0.60	-0.50
		Mz	-0.05	-0.04	-0.04	-0.04	-0.04	-0.03	-0.03

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N19/N238	Peso próprio	N	-180.456	-180.417	-180.378	-180.339	-180.299	-180.260	-180.221
		Vy	-0.666	-0.666	-0.666	-0.666	-0.666	-0.666	-0.666
		Vz	-9.483	-9.035	-8.587	-8.138	-7.690	-7.242	-6.793
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.61	8.35	10.00	11.56	13.04	14.44	15.76
		Mz	-0.33	-0.20	-0.08	0.05	0.17	0.30	0.42
	Guarda Corpo	N	-49.562	-49.562	-49.562	-49.562	-49.562	-49.562	-49.562
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-2.817	-2.817	-2.817	-2.817	-2.817	-2.817	-2.817
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.72	2.25	2.78	3.31	3.83	4.36	4.89

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Laje	N	-367.951	-367.951	-367.951	-367.951	-367.951	-367.951	-367.951
		Vy	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
		Vz	-20.908	-20.908	-20.908	-20.908	-20.908	-20.908	-20.908
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.81	16.73	20.64	24.56	28.47	32.39	36.30
		Mz	-0.06	-0.04	-0.03	-0.02	0.00	0.01	0.02
	Pavimentação	N	-201.237	-201.237	-201.237	-201.237	-201.237	-201.237	-201.237
		Vy	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
		Vz	-11.439	-11.439	-11.439	-11.439	-11.439	-11.439	-11.439
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.97	9.11	11.25	13.39	15.54	17.68	19.82
		Mz	-0.03	-0.02	-0.01	-0.01	0.00	0.01	0.02
	Recapeamento	N	-91.296	-91.296	-91.296	-91.296	-91.296	-91.296	-91.296
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	-5.188	-5.188	-5.188	-5.188	-5.188	-5.188	-5.188
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.18	4.15	5.12	6.09	7.06	8.03	9.01
		Mz	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01
	Vento 0	N	-19.562	-19.516	-19.469	-19.423	-19.376	-19.330	-19.283
		Vy	0.924	0.762	0.600	0.438	0.276	0.114	-0.048
		Vz	-0.479	-0.483	-0.487	-0.491	-0.495	-0.500	-0.504
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.86	-0.77	-0.68	-0.59	-0.50	-0.40	-0.31
		Mz	1.47	1.31	1.18	1.09	1.02	0.98	0.98
	Vento 180	N	19.001	19.001	19.001	19.001	19.001	19.001	19.001
		Vy	-0.761	-0.761	-0.761	-0.761	-0.761	-0.761	-0.761
		Vz	1.103	1.103	1.103	1.103	1.103	1.103	1.103
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	0.84	0.63	0.42	0.22	0.01	-0.20	-0.40
		Mz	-1.62	-1.48	-1.34	-1.19	-1.05	-0.91	-0.77
	Multidão (Passeio)	N	-64.330	-64.330	-64.330	-64.330	-64.330	-64.330	-64.330
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-3.658	-3.658	-3.658	-3.658	-3.658	-3.658	-3.658
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	2.24	2.92	3.61	4.29	4.98	5.66	6.35
		Mz	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01
	Multidão - TB450	N	-209.804	-209.804	-209.804	-209.804	-209.804	-209.804	-209.804
		Vy	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Vz	-11.919	-11.919	-11.919	-11.919	-11.919	-11.919	-11.919
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.30	9.53	11.76	13.99	16.23	18.46	20.69
		Mz	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
	TB-450-A1	N	-76.454	-76.454	-76.454	-76.454	-76.454	-76.454	-76.454
		Vy	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
		Vz	1.232	1.232	1.232	1.232	1.232	1.232	1.232
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.89	12.66	12.42	12.19	11.96	11.73	11.50
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-A2	N	-32.170	-32.170	-32.170	-32.170	-32.170	-32.170	-32.170
		Vy	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
		Vz	0.523	0.523	0.523	0.523	0.523	0.523	0.523
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.44	5.34	5.24	5.15	5.05	4.95	4.85
		Mz	-0.05	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
	TB-450-B1	N	-137.001	-137.001	-137.001	-137.001	-137.001	-137.001	-137.001
		Vy	0.063	0.063	0.063	0.063	0.063	0.063	0.063
		Vz	-12.044	-12.044	-12.044	-12.044	-12.044	-12.044	-12.044
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.99	13.25	15.50	17.76	20.01	22.27	24.52
		Mz	0.02	0.01	-0.01	-0.02	-0.03	-0.04	-0.05
	TB-450-B2	N	-57.236	-57.236	-57.236	-57.236	-57.236	-57.236	-57.236
		Vy	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022	-0.022
		Vz	-5.086	-5.086	-5.086	-5.086	-5.086	-5.086	-5.086
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.64	5.60	6.55	7.50	8.46	9.41	10.36
		Mz	-0.11	-0.11	-0.11	-0.10	-0.10	-0.09	-0.09
	TB-450-C1	N	-42.537	-42.537	-42.537	-42.537	-42.537	-42.537	-42.537
		Vy	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095
		Vz	-2.805	-2.805	-2.805	-2.805	-2.805	-2.805	-2.805

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.20	-1.67	-1.15	-0.62	-0.10	0.43	0.95
		Mz	-0.02	0.00	0.02	0.03	0.05	0.07	0.09
	TB-450-C2	N	-102.675	-102.675	-102.675	-102.675	-102.675	-102.675	-102.675
		Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vz	-6.697	-6.697	-6.697	-6.697	-6.697	-6.697	-6.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.19	-3.93	-2.68	-1.42	-0.17	1.08	2.34
		Mz	0.14	0.15	0.16	0.16	0.17	0.18	0.19
	TB-450-D1	N	-62.392	-62.392	-62.392	-62.392	-62.392	-62.392	-62.392
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-3.836	-3.836	-3.836	-3.836	-3.836	-3.836	-3.836
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.64	-2.92	-2.20	-1.48	-0.76	-0.04	0.68
		Mz	0.05	0.05	0.05	0.05	0.04	0.04	0.04
	TB-450-D2	N	-25.904	-25.904	-25.904	-25.904	-25.904	-25.904	-25.904
		Vy	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031
		Vz	-1.618	-1.618	-1.618	-1.618	-1.618	-1.618	-1.618
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.53	-1.23	-0.93	-0.62	-0.32	-0.02	0.29
		Mz	-0.06	-0.05	-0.05	-0.04	-0.03	-0.03	-0.02
	TB-450-E1	N	-17.990	-17.990	-17.990	-17.990	-17.990	-17.990	-17.990
		Vy	0.004	0.004	0.004	0.004	0.004	0.004	0.004
		Vz	-1.102	-1.102	-1.102	-1.102	-1.102	-1.102	-1.102
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.06	-0.85	-0.64	-0.44	-0.23	-0.03	0.18
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-E2	N	-8.458	-8.458	-8.458	-8.458	-8.458	-8.458	-8.458
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528	-0.528
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.50	-0.41	-0.31	-0.21	-0.11	-0.01	0.09
		Mz	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N238/N45	Peso próprio	N	-217.958	-217.931	-217.905
		Vy	-0.679	-0.679	-0.679
		Vz	-129.129	-128.829	-128.530
		Mt	-0.04	-0.04	-0.04
		My	-20.60	-4.47	11.61
		Mz	0.43	0.51	0.60
	Guarda Corpo	N	-59.703	-59.703	-59.703
		Vy	-0.005	-0.005	-0.005
		Vz	-35.531	-35.531	-35.531
		Mt	0.00	0.00	0.00
		My	-5.23	-0.79	3.65
		Mz	0.00	0.00	0.00
	Laje	N	-443.211	-443.211	-443.211
		Vy	-0.047	-0.047	-0.047
		Vz	-263.689	-263.689	-263.689
		Mt	-0.01	-0.01	-0.01
		My	-38.80	-5.84	27.13
		Mz	0.03	0.03	0.04
	Pavimentação	N	-242.452	-242.452	-242.452
		Vy	-0.027	-0.027	-0.027
		Vz	-144.405	-144.405	-144.405
		Mt	-0.01	-0.01	-0.01
		My	-21.30	-3.25	14.80
		Mz	0.02	0.02	0.02
	Recapeamento	N	-109.973	-109.973	-109.973
		Vy	-0.012	-0.012	-0.012
		Vz	-65.439	-65.439	-65.439
		Mt	0.00	0.00	0.00
		My	-9.63	-1.45	6.73
		Mz	0.01	0.01	0.01
	Vento 0	N	-24.436	-24.405	-24.374
		Vy	-2.030	-2.138	-2.246
		Vz	-20.109	-20.112	-20.115
		Mt	-0.31	-0.31	-0.31
		My	-5.04	-2.53	-0.01

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.92	1.19	1.46
	Vento 180	N	24.934	24.934	24.934
		Vy	-1.463	-1.463	-1.463
		Vz	20.716	20.716	20.716
		Mt	-0.01	-0.01	-0.01
		My	5.29	2.70	0.11
		Mz	-0.81	-0.62	-0.44
	Multidão (Passeio)	N	-77.495	-77.495	-77.495
		Vy	-0.005	-0.005	-0.005
		Vz	-46.126	-46.126	-46.126
		Mt	0.00	0.00	0.00
		My	-6.79	-1.02	4.74
		Mz	-0.01	-0.01	-0.01
	Multidão - TB450	N	-252.720	-252.720	-252.720
		Vy	-0.031	-0.031	-0.031
		Vz	-150.363	-150.363	-150.363
		Mt	-0.01	-0.01	-0.01
		My	-22.13	-3.34	15.46
		Mz	0.04	0.05	0.05
	TB-450-A1	N	-72.562	-72.562	-72.562
		Vy	-0.017	-0.017	-0.017
		Vz	17.065	17.065	17.065
		Mt	0.00	0.00	0.00
		My	13.42	11.29	9.15
		Mz	-0.01	0.00	0.00
	TB-450-A2	N	-30.517	-30.517	-30.517
		Vy	-0.010	-0.010	-0.010
		Vz	7.240	7.240	7.240
		Mt	-0.01	-0.01	-0.01
		My	5.67	4.76	3.86
		Mz	-0.04	-0.04	-0.03
	TB-450-B1	N	-162.913	-162.913	-162.913
		Vy	0.093	0.093	0.093
		Vz	-94.298	-94.298	-94.298

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.02	0.02	0.02
		My	-1.82	9.96	21.75
		Mz	-0.06	-0.07	-0.08
	TB-450-B2	N	-68.241	-68.241	-68.241
		Vy	-0.017	-0.017	-0.017
		Vz	-40.033	-40.033	-40.033
		Mt	-0.01	-0.01	-0.01
		My	-0.82	4.18	9.19
		Mz	-0.09	-0.08	-0.08
	TB-450-C1	N	-56.313	-56.313	-56.313
		Vy	-0.095	-0.095	-0.095
		Vz	-48.337	-48.337	-48.337
		Mt	-0.03	-0.03	-0.03
		My	-12.20	-6.16	-0.12
		Mz	0.09	0.11	0.12
	TB-450-C2	N	-135.188	-135.188	-135.188
		Vy	-0.009	-0.009	-0.009
		Vz	-114.137	-114.137	-114.137
		Mt	-0.01	-0.01	-0.01
		My	-28.72	-14.46	-0.19
		Mz	0.19	0.19	0.19
	TB-450-D1	N	-82.435	-82.435	-82.435
		Vy	0.029	0.029	0.029
		Vz	-70.024	-70.024	-70.024
		Mt	0.01	0.01	0.01
		My	-18.53	-9.77	-1.02
		Mz	0.04	0.03	0.03
	TB-450-D2	N	-34.433	-34.433	-34.433
		Vy	-0.047	-0.047	-0.047
		Vz	-29.788	-29.788	-29.788
		Mt	-0.01	-0.01	-0.01
		My	-7.88	-4.16	-0.44
		Mz	-0.02	-0.02	-0.01
	TB-450-E1	N	-23.767	-23.767	-23.767

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.009	0.009	0.009
		Vz	-20.177	-20.177	-20.177
		Mt	0.00	0.00	0.00
		My	-5.35	-2.83	-0.31
		Mz	0.01	0.00	0.00
	TB-450-E2	N	-11.251	-11.251	-11.251
		Vy	-0.020	-0.020	-0.020
		Vz	-9.751	-9.751	-9.751
		Mt	0.00	0.00	0.00
		My	-2.58	-1.37	-0.15
		Mz	-0.02	-0.02	-0.01

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N45/N237	Peso próprio	N	-214.427	-214.400	-214.374
		Vy	0.310	0.310	0.310
		Vz	-119.698	-119.399	-119.099
		Mt	0.04	0.04	0.04
		My	12.02	26.97	41.87
		Mz	0.62	0.58	0.54
	Guarda Corpo	N	-59.300	-59.300	-59.300
		Vy	0.020	0.020	0.020
		Vz	-35.533	-35.533	-35.533
		Mt	0.00	0.00	0.00
		My	3.68	8.13	12.57
		Mz	0.00	0.00	-0.01
	Laje	N	-440.229	-440.229	-440.229
		Vy	0.194	0.194	0.194
		Vz	-263.709	-263.709	-263.709
		Mt	0.01	0.01	0.01
		My	27.35	60.31	93.28
		Mz	0.04	0.02	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	-240.818	-240.818	-240.818
		Vy	0.109	0.109	0.109
		Vz	-144.416	-144.416	-144.416
		Mt	0.00	0.00	0.00
		My	14.92	32.98	51.03
		Mz	0.03	0.01	0.00
	Recapeamento	N	-109.233	-109.233	-109.233
		Vy	0.049	0.049	0.049
		Vz	-65.444	-65.444	-65.444
		Mt	0.00	0.00	0.00
		My	6.78	14.96	23.14
		Mz	0.01	0.01	0.00
	Vento 0	N	-30.292	-30.261	-30.229
		Vy	5.920	5.812	5.704
		Vz	-19.895	-19.897	-19.900
		Mt	0.30	0.30	0.30
		My	-0.46	2.03	4.52
		Mz	1.60	0.87	0.15
	Vento 180	N	28.711	28.711	28.711
		Vy	-2.099	-2.099	-2.099
		Vz	20.686	20.686	20.686
		Mt	-0.05	-0.05	-0.05
		My	0.39	-2.19	-4.78
		Mz	-0.45	-0.19	0.07
	Multidão (Passeio)	N	-76.970	-76.970	-76.970
		Vy	0.016	0.016	0.016
		Vz	-46.130	-46.130	-46.130
		Mt	0.00	0.00	0.00
		My	4.78	10.55	16.32
		Mz	-0.01	-0.01	-0.02
	Multidão - TB450	N	-251.024	-251.024	-251.024
		Vy	0.135	0.135	0.135
		Vz	-150.373	-150.373	-150.373
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	15.58	34.38	53.18
		Mz	0.05	0.04	0.02
	TB-450-A1	N	-72.518	-72.518	-72.518
		Vy	0.021	0.021	0.021
		Vz	17.063	17.063	17.063
		Mt	0.00	0.00	0.00
		My	9.16	7.02	4.89
		Mz	0.00	0.00	-0.01
	TB-450-A2	N	-30.481	-30.481	-30.481
		Vy	0.027	0.027	0.027
		Vz	7.238	7.238	7.238
		Mt	-0.01	-0.01	-0.01
		My	3.86	2.96	2.05
		Mz	-0.03	-0.04	-0.04
	TB-450-B1	N	-162.210	-162.210	-162.210
		Vy	-0.018	-0.018	-0.018
		Vz	-94.308	-94.308	-94.308
		Mt	0.01	0.01	0.01
		My	21.80	33.59	45.38
		Mz	-0.08	-0.08	-0.08
	TB-450-B2	N	-67.647	-67.647	-67.647
		Vy	0.017	0.017	0.017
		Vz	-40.038	-40.038	-40.038
		Mt	-0.01	-0.01	-0.01
		My	9.23	14.24	19.24
		Mz	-0.08	-0.08	-0.09
	TB-450-C1	N	-55.634	-55.634	-55.634
		Vy	0.196	0.196	0.196
		Vz	-48.335	-48.335	-48.335
		Mt	-0.01	-0.01	-0.01
		My	-0.07	5.97	12.02
		Mz	0.12	0.10	0.07
	TB-450-C2	N	-134.325	-134.325	-134.325
		Vy	0.135	0.135	0.135

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-114.140	-114.140	-114.140
		Mt	0.00	0.00	0.00
		My	-0.13	14.14	28.41
		Mz	0.19	0.18	0.16
	TB-450-D1	N	-81.775	-81.775	-81.775
		Vy	-0.002	-0.002	-0.002
		Vz	-70.029	-70.029	-70.029
		Mt	0.00	0.00	0.00
		My	-0.97	7.78	16.54
		Mz	0.03	0.03	0.03
	TB-450-D2	N	-33.902	-33.902	-33.902
		Vy	0.024	0.024	0.024
		Vz	-29.790	-29.790	-29.790
		Mt	0.00	0.00	0.00
		My	-0.39	3.33	7.05
		Mz	-0.01	-0.01	-0.02
	TB-450-E1	N	-23.555	-23.555	-23.555
		Vy	-0.015	-0.015	-0.015
		Vz	-20.179	-20.179	-20.179
		Mt	0.00	0.00	0.00
		My	-0.29	2.23	4.75
		Mz	0.00	0.00	0.01
	TB-450-E2	N	-11.047	-11.047	-11.047
		Vy	-0.019	-0.019	-0.019
		Vz	-9.752	-9.752	-9.752
		Mt	0.00	0.00	0.00
		My	-0.13	1.09	2.31
		Mz	-0.01	-0.01	-0.01

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N237/N35	Peso próprio	N	-228.438	-228.399	-228.359	-228.320	-228.281	-228.242	-228.202
		Vy	0.311	0.311	0.311	0.311	0.311	0.311	0.311

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vz	-6.287	-5.838	-5.390	-4.942	-4.493	-4.045	-3.597
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.25	15.39	16.44	17.40	18.29	19.09	19.80
		Mz	0.54	0.48	0.42	0.36	0.30	0.24	0.19
	Guarda Corpo	N	-63.563	-63.563	-63.563	-63.563	-63.563	-63.563	-63.563
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	-0.981	-0.981	-0.981	-0.981	-0.981	-0.981	-0.981
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.53	4.71	4.90	5.08	5.26	5.45	5.63
		Mz	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03
	Laje	N	-471.870	-471.870	-471.870	-471.870	-471.870	-471.870	-471.870
		Vy	0.242	0.242	0.242	0.242	0.242	0.242	0.242
		Vz	-7.306	-7.306	-7.306	-7.306	-7.306	-7.306	-7.306
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	33.62	34.99	36.36	37.72	39.09	40.46	41.83
		Mz	-0.01	-0.05	-0.10	-0.14	-0.19	-0.23	-0.28
	Pavimentação	N	-258.148	-258.148	-258.148	-258.148	-258.148	-258.148	-258.148
		Vy	0.137	0.137	0.137	0.137	0.137	0.137	0.137
		Vz	-4.016	-4.016	-4.016	-4.016	-4.016	-4.016	-4.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.35	19.10	19.85	20.60	21.36	22.11	22.86
		Mz	0.00	-0.03	-0.05	-0.08	-0.10	-0.13	-0.16
	Recapeamento	N	-117.085	-117.085	-117.085	-117.085	-117.085	-117.085	-117.085
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	-1.815	-1.815	-1.815	-1.815	-1.815	-1.815	-1.815
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.34	8.68	9.02	9.36	9.70	10.04	10.38
		Mz	0.00	-0.01	-0.02	-0.04	-0.05	-0.06	-0.07
	Vento 0	N	-32.128	-32.081	-32.035	-31.988	-31.942	-31.895	-31.849
		Vy	3.515	3.353	3.191	3.029	2.867	2.705	2.543
		Vz	-0.490	-0.494	-0.498	-0.502	-0.507	-0.511	-0.515
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	0.20	0.29	0.38	0.48	0.57	0.67	0.76
		Mz	0.17	-0.48	-1.09	-1.67	-2.22	-2.75	-3.24
	Vento 180	N	31.359	31.359	31.359	31.359	31.359	31.359	31.359

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Vy	-2.555	-2.555	-2.555	-2.555	-2.555	-2.555	-2.555
		Vz	1.114	1.114	1.114	1.114	1.114	1.114	1.114
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	0.45	0.24	0.03	-0.18	-0.38	-0.59	-0.80
		Mz	0.08	0.56	1.04	1.52	2.00	2.47	2.95
	Multidão (Passeio)	N	-82.505	-82.505	-82.505	-82.505	-82.505	-82.505	-82.505
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-1.268	-1.268	-1.268	-1.268	-1.268	-1.268	-1.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.88	6.12	6.36	6.59	6.83	7.07	7.31
		Mz	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04
	Multidão - TB450	N	-269.066	-269.066	-269.066	-269.066	-269.066	-269.066	-269.066
		Vy	0.173	0.173	0.173	0.173	0.173	0.173	0.173
		Vz	-4.184	-4.184	-4.184	-4.184	-4.184	-4.184	-4.184
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	19.15	19.94	20.72	21.51	22.29	23.07	23.86
		Mz	0.02	-0.02	-0.05	-0.08	-0.11	-0.14	-0.18
	TB-450-A1	N	-70.580	-70.580	-70.580	-70.580	-70.580	-70.580	-70.580
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	2.541	2.541	2.541	2.541	2.541	2.541	2.541
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.37	7.89	7.42	6.94	6.47	5.99	5.51
		Mz	-0.01	-0.01	-0.01	-0.02	-0.02	-0.03	-0.03
	TB-450-A2	N	-29.659	-29.659	-29.659	-29.659	-29.659	-29.659	-29.659
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	1.072	1.072	1.072	1.072	1.072	1.072	1.072
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.53	3.33	3.13	2.93	2.73	2.53	2.32
		Mz	-0.04	-0.05	-0.05	-0.05	-0.06	-0.06	-0.07
	TB-450-B1	N	-172.205	-172.205	-172.205	-172.205	-172.205	-172.205	-172.205
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-1.584	-1.584	-1.584	-1.584	-1.584	-1.584	-1.584
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	28.02	28.32	28.61	28.91	29.21	29.50	29.80
		Mz	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	TB-450-B2	N	-71.895	-71.895	-71.895	-71.895	-71.895	-71.895	-71.895
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-0.685	-0.685	-0.685	-0.685	-0.685	-0.685	-0.685
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.85	11.98	12.11	12.24	12.37	12.49	12.62
		Mz	-0.09	-0.09	-0.09	-0.10	-0.10	-0.10	-0.11
	TB-450-C1	N	-61.642	-61.642	-61.642	-61.642	-61.642	-61.642	-61.642
		Vy	0.224	0.224	0.224	0.224	0.224	0.224	0.224
		Vz	-2.628	-2.628	-2.628	-2.628	-2.628	-2.628	-2.628
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.37	0.86	1.35	1.84	2.34	2.83	3.32
		Mz	0.07	0.03	-0.01	-0.05	-0.09	-0.14	-0.18
	TB-450-C2	N	-148.497	-148.497	-148.497	-148.497	-148.497	-148.497	-148.497
		Vy	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Vz	-6.135	-6.135	-6.135	-6.135	-6.135	-6.135	-6.135
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.96	2.11	3.26	4.40	5.55	6.70	7.85
		Mz	0.16	0.12	0.09	0.05	0.02	-0.02	-0.05
	TB-450-D1	N	-90.719	-90.719	-90.719	-90.719	-90.719	-90.719	-90.719
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-2.042	-2.042	-2.042	-2.042	-2.042	-2.042	-2.042
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.76	-0.37	0.01	0.39	0.77	1.16	1.54
		Mz	0.03	0.03	0.03	0.03	0.03	0.02	0.02
	TB-450-D2	N	-37.708	-37.708	-37.708	-37.708	-37.708	-37.708	-37.708
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.31	-0.14	0.02	0.18	0.35	0.51	0.68
		Mz	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03
	TB-450-E1	N	-26.136	-26.136	-26.136	-26.136	-26.136	-26.136	-26.136
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-0.569	-0.569	-0.569	-0.569	-0.569	-0.569	-0.569
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.24	-0.13	-0.03	0.08	0.19	0.29	0.40

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	0.01	0.01	0.01	0.01	0.02	0.02	0.02
	TB-450-E2	N	-12.295	-12.295	-12.295	-12.295	-12.295	-12.295	-12.295
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.10	-0.05	0.00	0.05	0.10	0.15	0.20
		Mz	-0.01	0.00	0.00	0.00	0.01	0.01	0.02

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N35/N236	Peso próprio	N	-228.202	-228.163	-228.124	-228.084	-228.045	-228.006	-227.966
		Vy	0.311	0.311	0.311	0.311	0.311	0.311	0.311
		Vz	-3.597	-3.149	-2.700	-2.252	-1.804	-1.355	-0.907
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.80	20.44	20.98	21.45	21.83	22.12	22.33
		Mz	0.19	0.13	0.07	0.01	-0.05	-0.10	-0.16
	Guarda Corpo	N	-63.563	-63.563	-63.563	-63.563	-63.563	-63.563	-63.563
		Vy	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vz	-0.981	-0.981	-0.981	-0.981	-0.981	-0.981	-0.981
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.63	5.82	6.00	6.18	6.37	6.55	6.73
		Mz	-0.03	-0.04	-0.04	-0.05	-0.05	-0.06	-0.06
	Laje	N	-471.870	-471.870	-471.870	-471.870	-471.870	-471.870	-471.870
		Vy	0.242	0.242	0.242	0.242	0.242	0.242	0.242
		Vz	-7.306	-7.306	-7.306	-7.306	-7.306	-7.306	-7.306
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	41.83	43.20	44.57	45.93	47.30	48.67	50.04
		Mz	-0.28	-0.32	-0.37	-0.41	-0.46	-0.51	-0.55
	Pavimentação	N	-258.148	-258.148	-258.148	-258.148	-258.148	-258.148	-258.148
		Vy	0.137	0.137	0.137	0.137	0.137	0.137	0.137
		Vz	-4.016	-4.016	-4.016	-4.016	-4.016	-4.016	-4.016
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	22.86	23.61	24.37	25.12	25.87	26.62	27.37
		Mz	-0.16	-0.18	-0.21	-0.23	-0.26	-0.28	-0.31

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Recapeamento	N	-117.085	-117.085	-117.085	-117.085	-117.085	-117.085	-117.085
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	-1.815	-1.815	-1.815	-1.815	-1.815	-1.815	-1.815
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.38	10.72	11.06	11.40	11.74	12.08	12.42
		Mz	-0.07	-0.08	-0.09	-0.10	-0.12	-0.13	-0.14
	Vento 0	N	-31.849	-31.802	-31.756	-31.709	-31.663	-31.616	-31.570
		Vy	2.543	2.381	2.220	2.058	1.896	1.734	1.572
		Vz	-0.515	-0.519	-0.523	-0.527	-0.531	-0.535	-0.539
		Mt	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		My	0.76	0.86	0.96	1.06	1.15	1.25	1.36
		Mz	-3.24	-3.70	-4.13	-4.53	-4.90	-5.24	-5.55
	Vento 180	N	31.359	31.359	31.359	31.359	31.359	31.359	31.359
		Vy	-2.555	-2.555	-2.555	-2.555	-2.555	-2.555	-2.555
		Vz	1.114	1.114	1.114	1.114	1.114	1.114	1.114
		Mt	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		My	-0.80	-1.01	-1.22	-1.43	-1.64	-1.84	-2.05
		Mz	2.95	3.43	3.91	4.39	4.87	5.35	5.82
	Multidão (Passeio)	N	-82.505	-82.505	-82.505	-82.505	-82.505	-82.505	-82.505
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-1.268	-1.268	-1.268	-1.268	-1.268	-1.268	-1.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.31	7.54	7.78	8.02	8.26	8.49	8.73
		Mz	-0.04	-0.04	-0.04	-0.05	-0.05	-0.05	-0.06
	Multidão - TB450	N	-269.066	-269.066	-269.066	-269.066	-269.066	-269.066	-269.066
		Vy	0.173	0.173	0.173	0.173	0.173	0.173	0.173
		Vz	-4.184	-4.184	-4.184	-4.184	-4.184	-4.184	-4.184
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	23.86	24.64	25.42	26.21	26.99	27.77	28.56
		Mz	-0.18	-0.21	-0.24	-0.27	-0.31	-0.34	-0.37
	TB-450-A1	N	-70.580	-70.580	-70.580	-70.580	-70.580	-70.580	-70.580
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	2.541	2.541	2.541	2.541	2.541	2.541	2.541
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.51	5.04	4.56	4.09	3.61	3.13	2.66

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-0.03	-0.03	-0.04	-0.04	-0.05	-0.05	-0.05
	TB-450-A2	N	-29.659	-29.659	-29.659	-29.659	-29.659	-29.659	-29.659
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	1.072	1.072	1.072	1.072	1.072	1.072	1.072
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.32	2.12	1.92	1.72	1.52	1.32	1.12
		Mz	-0.07	-0.07	-0.08	-0.08	-0.09	-0.09	-0.10
	TB-450-B1	N	-172.205	-172.205	-172.205	-172.205	-172.205	-172.205	-172.205
		Vy	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
		Vz	-1.584	-1.584	-1.584	-1.584	-1.584	-1.584	-1.584
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	29.80	30.10	30.39	30.69	30.99	31.28	31.58
		Mz	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
	TB-450-B2	N	-71.895	-71.895	-71.895	-71.895	-71.895	-71.895	-71.895
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-0.685	-0.685	-0.685	-0.685	-0.685	-0.685	-0.685
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.62	12.75	12.88	13.01	13.14	13.26	13.39
		Mz	-0.11	-0.11	-0.11	-0.12	-0.12	-0.12	-0.13
	TB-450-C1	N	-61.642	-61.642	-61.642	-61.642	-61.642	-61.642	-61.642
		Vy	0.224	0.224	0.224	0.224	0.224	0.224	0.224
		Vz	-2.628	-2.628	-2.628	-2.628	-2.628	-2.628	-2.628
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	3.32	3.81	4.31	4.80	5.29	5.78	6.27
		Mz	-0.18	-0.22	-0.26	-0.30	-0.35	-0.39	-0.43
	TB-450-C2	N	-148.497	-148.497	-148.497	-148.497	-148.497	-148.497	-148.497
		Vy	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Vz	-6.135	-6.135	-6.135	-6.135	-6.135	-6.135	-6.135
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	7.85	9.00	10.15	11.30	12.45	13.60	14.75
		Mz	-0.05	-0.09	-0.12	-0.16	-0.19	-0.23	-0.26
	TB-450-D1	N	-90.719	-90.719	-90.719	-90.719	-90.719	-90.719	-90.719
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-2.042	-2.042	-2.042	-2.042	-2.042	-2.042	-2.042
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	1.54	1.92	2.30	2.69	3.07	3.45	3.83
		Mz	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	TB-450-D2	N	-37.708	-37.708	-37.708	-37.708	-37.708	-37.708	-37.708
		Vy	0.016	0.016	0.016	0.016	0.016	0.016	0.016
		Vz	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877	-0.877
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.68	0.84	1.01	1.17	1.33	1.50	1.66
		Mz	-0.03	-0.04	-0.04	-0.04	-0.04	-0.05	-0.05
	TB-450-E1	N	-26.136	-26.136	-26.136	-26.136	-26.136	-26.136	-26.136
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-0.569	-0.569	-0.569	-0.569	-0.569	-0.569	-0.569
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.40	0.51	0.61	0.72	0.83	0.93	1.04
		Mz	0.02	0.02	0.03	0.03	0.03	0.03	0.04
	TB-450-E2	N	-12.295	-12.295	-12.295	-12.295	-12.295	-12.295	-12.295
		Vy	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vz	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276	-0.276
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.20	0.26	0.31	0.36	0.41	0.46	0.51
		Mz	0.02	0.02	0.03	0.03	0.04	0.04	0.05

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N236/N47	Peso próprio	N	-253.414	-253.388	-253.362
		Vy	0.314	0.314	0.314
		Vz	-82.382	-82.083	-81.784
		Mt	-0.08	-0.08	-0.08
		My	-2.04	8.24	18.48
		Mz	-0.14	-0.18	-0.22
	Guarda Corpo	N	-70.015	-70.015	-70.015
		Vy	0.028	0.028	0.028
		Vz	-21.447	-21.447	-21.447
		Mt	-0.02	-0.02	-0.02

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	0.22	2.90	5.58
		Mz	-0.06	-0.06	-0.06
	Laje	N	-519.763	-519.763	-519.763
		Vy	0.282	0.282	0.282
		Vz	-159.260	-159.260	-159.260
		Mt	-0.20	-0.20	-0.20
		My	1.68	21.59	41.50
		Mz	-0.50	-0.54	-0.57
	Pavimentação	N	-284.423	-284.423	-284.423
		Vy	0.160	0.160	0.160
		Vz	-87.398	-87.398	-87.398
		Mt	-0.11	-0.11	-0.11
		My	0.85	11.78	22.70
		Mz	-0.28	-0.30	-0.32
	Recapeamento	N	-128.975	-128.975	-128.975
		Vy	0.072	0.072	0.072
		Vz	-39.538	-39.538	-39.538
		Mt	-0.05	-0.05	-0.05
		My	0.41	5.36	10.30
		Mz	-0.13	-0.14	-0.14
	Vento 0	N	-37.608	-37.577	-37.546
		Vy	-0.555	-0.663	-0.771
		Vz	-23.595	-23.597	-23.600
		Mt	-1.02	-1.02	-1.02
		My	-3.76	-0.81	2.14
		Mz	-5.46	-5.38	-5.29
	Vento 180	N	38.127	38.127	38.127
		Vy	-3.117	-3.117	-3.117
		Vz	23.979	23.979	23.979
		Mt	0.61	0.61	0.61
		My	3.99	1.00	-2.00
		Mz	5.66	6.05	6.44
	Multidão (Passeio)	N	-90.875	-90.875	-90.875
		Vy	0.019	0.019	0.019

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-27.813	-27.813	-27.813
		Mt	-0.01	-0.01	-0.01
		My	0.27	3.75	7.23
		Mz	-0.05	-0.06	-0.06
	Multidão - TB450	N	-296.399	-296.399	-296.399
		Vy	0.204	0.204	0.204
		Vz	-90.921	-90.921	-90.921
		Mt	-0.15	-0.15	-0.15
		My	0.97	12.34	23.70
		Mz	-0.34	-0.36	-0.39
	TB-450-A1	N	-64.135	-64.135	-64.135
		Vy	0.019	0.019	0.019
		Vz	23.852	23.852	23.852
		Mt	-0.01	-0.01	-0.01
		My	8.94	5.95	2.97
		Mz	-0.05	-0.05	-0.06
	TB-450-A2	N	-26.930	-26.930	-26.930
		Vy	0.029	0.029	0.029
		Vz	10.090	10.090	10.090
		Mt	-0.01	-0.01	-0.01
		My	3.78	2.52	1.26
		Mz	-0.10	-0.10	-0.10
	TB-450-B1	N	-172.104	-172.104	-172.104
		Vy	0.012	0.012	0.012
		Vz	5.257	5.257	5.257
		Mt	0.02	0.02	0.02
		My	28.18	27.53	26.87
		Mz	-0.08	-0.08	-0.08
	TB-450-B2	N	-71.904	-71.904	-71.904
		Vy	0.025	0.025	0.025
		Vz	2.035	2.035	2.035
		Mt	-0.01	-0.01	-0.01
		My	11.91	11.66	11.40
		Mz	-0.12	-0.13	-0.13

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-C1	N	-74.655	-74.655	-74.655
		Vy	0.252	0.252	0.252
		Vz	-45.609	-45.609	-45.609
		Mt	-0.19	-0.19	-0.19
		My	-5.93	-0.23	5.47
		Mz	-0.39	-0.42	-0.45
	TB-450-C2	N	-179.044	-179.044	-179.044
		Vy	0.229	0.229	0.229
		Vz	-106.925	-106.925	-106.925
		Mt	-0.20	-0.20	-0.20
		My	-13.98	-0.61	12.75
		Mz	-0.21	-0.24	-0.27
	TB-450-D1	N	-111.457	-111.457	-111.457
		Vy	0.010	0.010	0.010
		Vz	-70.457	-70.457	-70.457
		Mt	0.00	0.00	0.00
		My	-15.91	-7.10	1.71
		Mz	0.02	0.02	0.02
	TB-450-D2	N	-46.524	-46.524	-46.524
		Vy	0.007	0.007	0.007
		Vz	-29.961	-29.961	-29.961
		Mt	0.00	0.00	0.00
		My	-6.73	-2.98	0.76
		Mz	-0.05	-0.05	-0.05
	TB-450-E1	N	-32.139	-32.139	-32.139
		Vy	-0.012	-0.012	-0.012
		Vz	-20.370	-20.370	-20.370
		Mt	0.00	0.00	0.00
		My	-4.68	-2.13	0.42
		Mz	0.03	0.04	0.04
	TB-450-E2	N	-15.186	-15.186	-15.186
		Vy	-0.032	-0.032	-0.032
		Vz	-9.810	-9.810	-9.810
		Mt	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-2.24	-1.02	0.21
		Mz	0.04	0.05	0.05

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N47/N235	Peso próprio	N	-246.792	-246.766	-246.740
		Vy	-0.128	-0.128	-0.128
		Vz	-73.131	-72.831	-72.532
		Mt	-0.12	-0.12	-0.12
		My	19.13	28.25	37.34
		Mz	-0.23	-0.21	-0.20
	Guarda Corpo	N	-69.820	-69.820	-69.820
		Vy	-0.095	-0.095	-0.095
		Vz	-21.452	-21.452	-21.452
		Mt	-0.03	-0.03	-0.03
		My	5.59	8.28	10.96
		Mz	-0.07	-0.05	-0.04
	Laje	N	-518.211	-518.211	-518.211
		Vy	-1.053	-1.053	-1.053
		Vz	-159.312	-159.312	-159.312
		Mt	-0.30	-0.30	-0.30
		My	41.61	61.53	81.44
		Mz	-0.60	-0.47	-0.33
	Pavimentação	N	-283.565	-283.565	-283.565
		Vy	-0.599	-0.599	-0.599
		Vz	-87.427	-87.427	-87.427
		Mt	-0.17	-0.17	-0.17
		My	22.77	33.70	44.63
		Mz	-0.34	-0.26	-0.19
	Recapeamento	N	-128.587	-128.587	-128.587
		Vy	-0.268	-0.268	-0.268
		Vz	-39.551	-39.551	-39.551

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-0.08	-0.08	-0.08
		My	10.33	15.27	20.21
		Mz	-0.15	-0.12	-0.08
	Vento 0	N	-35.881	-35.850	-35.818
		Vy	-13.516	-13.624	-13.733
		Vz	-23.931	-23.934	-23.937
		Mt	-1.98	-1.98	-1.98
		My	2.26	5.25	8.24
		Mz	-5.51	-3.82	-2.11
	Vento 180	N	34.312	34.312	34.312
		Vy	17.598	17.598	17.598
		Vz	24.510	24.510	24.510
		Mt	2.18	2.18	2.18
		My	-2.28	-5.35	-8.41
		Mz	6.80	4.60	2.40
	Multidão (Passeio)	N	-90.645	-90.645	-90.645
		Vy	-0.049	-0.049	-0.049
		Vz	-27.818	-27.818	-27.818
		Mt	-0.01	-0.01	-0.01
		My	7.24	10.72	14.20
		Mz	-0.06	-0.05	-0.05
	Multidão - TB450	N	-295.453	-295.453	-295.453
		Vy	-0.795	-0.795	-0.795
		Vz	-90.956	-90.956	-90.956
		Mt	-0.23	-0.23	-0.23
		My	23.77	35.14	46.51
		Mz	-0.40	-0.30	-0.21
	TB-450-A1	N	-64.198	-64.198	-64.198
		Vy	-0.219	-0.219	-0.219
		Vz	23.845	23.845	23.845
		Mt	-0.02	-0.02	-0.02
		My	2.97	-0.01	-2.99
		Mz	-0.06	-0.03	-0.01
	TB-450-A2	N	-26.972	-26.972	-26.972

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.207	-0.207	-0.207
		Vz	10.083	10.083	10.083
		Mt	-0.03	-0.03	-0.03
		My	1.25	-0.01	-1.27
		Mz	-0.11	-0.08	-0.06
	TB-450-B1	N	-171.858	-171.858	-171.858
		Vy	-0.021	-0.021	-0.021
		Vz	5.252	5.252	5.252
		Mt	0.02	0.02	0.02
		My	26.89	26.23	25.57
		Mz	-0.08	-0.08	-0.08
	TB-450-B2	N	-71.716	-71.716	-71.716
		Vy	-0.031	-0.031	-0.031
		Vz	2.030	2.030	2.030
		Mt	-0.01	-0.01	-0.01
		My	11.42	11.16	10.91
		Mz	-0.13	-0.13	-0.12
	TB-450-C1	N	-74.025	-74.025	-74.025
		Vy	-1.064	-1.064	-1.064
		Vz	-45.646	-45.646	-45.646
		Mt	-0.29	-0.29	-0.29
		My	5.52	11.22	16.93
		Mz	-0.47	-0.34	-0.21
	TB-450-C2	N	-178.375	-178.375	-178.375
		Vy	-0.897	-0.897	-0.897
		Vz	-106.956	-106.956	-106.956
		Mt	-0.29	-0.29	-0.29
		My	12.80	26.17	39.54
		Mz	-0.29	-0.18	-0.07
	TB-450-D1	N	-111.006	-111.006	-111.006
		Vy	-0.007	-0.007	-0.007
		Vz	-70.461	-70.461	-70.461
		Mt	0.00	0.00	0.00
		My	1.74	10.55	19.36

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.01	0.02	0.02
	TB-450-D2	N	-46.213	-46.213	-46.213
		Vy	0.035	0.035	0.035
		Vz	-29.965	-29.965	-29.965
		Mt	0.00	0.00	0.00
		My	0.79	4.53	8.28
		Mz	-0.05	-0.06	-0.06
	TB-450-E1	N	-32.031	-32.031	-32.031
		Vy	0.088	0.088	0.088
		Vz	-20.369	-20.369	-20.369
		Mt	0.01	0.01	0.01
		My	0.42	2.97	5.52
		Mz	0.04	0.03	0.02
	TB-450-E2	N	-15.158	-15.158	-15.158
		Vy	0.203	0.203	0.203
		Vz	-9.806	-9.806	-9.806
		Mt	0.03	0.03	0.03
		My	0.21	1.44	2.66
		Mz	0.06	0.03	0.00

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N235/N20	Peso próprio	N	-254.848	-254.809	-254.770	-254.730	-254.691	-254.652	-254.612
		Vy	0.185	0.185	0.185	0.185	0.185	0.185	0.185
		Vz	-0.817	-0.368	0.080	0.528	0.977	1.425	1.873
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.95	22.06	22.09	22.03	21.89	21.66	21.36
		Mz	-0.20	-0.23	-0.27	-0.30	-0.33	-0.37	-0.40
	Guarda Corpo	N	-72.307	-72.307	-72.307	-72.307	-72.307	-72.307	-72.307
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	0.656	0.656	0.656	0.656	0.656	0.656	0.656
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.54	6.42	6.30	6.18	6.05	5.93	5.81

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-0.04	-0.04	-0.03	-0.03	-0.03	-0.02	-0.02
	Laje	N	-536.689	-536.689	-536.689	-536.689	-536.689	-536.689	-536.689
		Vy	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214
		Vz	4.928	4.928	4.928	4.928	4.928	4.928	4.928
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.66	47.73	46.81	45.89	44.96	44.04	43.12
		Mz	-0.33	-0.29	-0.25	-0.21	-0.17	-0.13	-0.09
	Pavimentação	N	-293.705	-293.705	-293.705	-293.705	-293.705	-293.705	-293.705
		Vy	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123
		Vz	2.677	2.677	2.677	2.677	2.677	2.677	2.677
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.63	26.13	25.63	25.13	24.63	24.13	23.63
		Mz	-0.18	-0.16	-0.14	-0.11	-0.09	-0.07	-0.04
	Recapeamento	N	-133.175	-133.175	-133.175	-133.175	-133.175	-133.175	-133.175
		Vy	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vz	1.222	1.222	1.222	1.222	1.222	1.222	1.222
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.08	11.85	11.62	11.39	11.16	10.93	10.70
		Mz	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02
	Vento 0	N	-38.240	-38.193	-38.147	-38.100	-38.054	-38.007	-37.961
		Vy	-11.144	-11.306	-11.468	-11.630	-11.792	-11.954	-12.116
		Vz	-0.562	-0.567	-0.571	-0.575	-0.579	-0.583	-0.587
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	3.27	3.38	3.49	3.59	3.70	3.81	3.92
		Mz	-2.03	0.07	2.20	4.36	6.56	8.78	11.04
	Vento 180	N	37.446	37.446	37.446	37.446	37.446	37.446	37.446
		Vy	12.573	12.573	12.573	12.573	12.573	12.573	12.573
		Vz	1.187	1.187	1.187	1.187	1.187	1.187	1.187
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	-2.60	-2.82	-3.04	-3.26	-3.49	-3.71	-3.93
		Mz	2.35	0.00	-2.36	-4.71	-7.07	-9.42	-11.78
	Multidão (Passeio)	N	-93.867	-93.867	-93.867	-93.867	-93.867	-93.867	-93.867
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	0.840	0.840	0.840	0.840	0.840	0.840	0.840
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	8.48	8.32	8.16	8.01	7.85	7.69	7.53
		Mz	-0.05	-0.05	-0.05	-0.04	-0.04	-0.04	-0.04
	Multidão - TB450	N	-306.010	-306.010	-306.010	-306.010	-306.010	-306.010	-306.010
		Vy	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167
		Vz	2.836	2.836	2.836	2.836	2.836	2.836	2.836
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.79	27.26	26.73	26.20	25.67	25.13	24.60
		Mz	-0.20	-0.17	-0.14	-0.11	-0.08	-0.05	-0.01
	TB-450-A1	N	-61.134	-61.134	-61.134	-61.134	-61.134	-61.134	-61.134
		Vy	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156
		Vz	1.281	1.281	1.281	1.281	1.281	1.281	1.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.02	2.78	2.54	2.30	2.06	1.82	1.58
		Mz	-0.01	0.02	0.05	0.08	0.11	0.14	0.17
	TB-450-A2	N	-25.676	-25.676	-25.676	-25.676	-25.676	-25.676	-25.676
		Vy	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149
		Vz	0.534	0.534	0.534	0.534	0.534	0.534	0.534
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.28	1.18	1.08	0.98	0.88	0.78	0.68
		Mz	-0.06	-0.03	0.00	0.03	0.06	0.08	0.11
	TB-450-B1	N	-170.606	-170.606	-170.606	-170.606	-170.606	-170.606	-170.606
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	6.965	6.965	6.965	6.965	6.965	6.965	6.965
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	29.03	27.73	26.42	25.12	23.82	22.51	21.21
		Mz	-0.08	-0.07	-0.07	-0.06	-0.05	-0.05	-0.04
	TB-450-B2	N	-71.208	-71.208	-71.208	-71.208	-71.208	-71.208	-71.208
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	2.942	2.942	2.942	2.942	2.942	2.942	2.942
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.33	11.78	11.23	10.68	10.13	9.58	9.03
		Mz	-0.12	-0.12	-0.12	-0.11	-0.11	-0.10	-0.10
	TB-450-C1	N	-79.245	-79.245	-79.245	-79.245	-79.245	-79.245	-79.245
		Vy	-0.302	-0.302	-0.302	-0.302	-0.302	-0.302	-0.302
		Vz	-1.326	-1.326	-1.326	-1.326	-1.326	-1.326	-1.326

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.53	7.77	8.02	8.27	8.52	8.77	9.02
		Mz	-0.20	-0.14	-0.09	-0.03	0.03	0.08	0.14
	TB-450-C2	N	-190.543	-190.543	-190.543	-190.543	-190.543	-190.543	-190.543
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	-3.224	-3.224	-3.224	-3.224	-3.224	-3.224	-3.224
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	17.61	18.21	18.82	19.42	20.02	20.63	21.23
		Mz	-0.06	-0.05	-0.03	-0.02	0.00	0.01	0.03
	TB-450-D1	N	-120.039	-120.039	-120.039	-120.039	-120.039	-120.039	-120.039
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.124	0.124	0.124	0.124	0.124	0.124	0.124
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.23	2.21	2.19	2.16	2.14	2.12	2.09
		Mz	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	TB-450-D2	N	-50.052	-50.052	-50.052	-50.052	-50.052	-50.052	-50.052
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.00	0.99	0.98	0.97	0.96	0.95	0.94
		Mz	-0.06	-0.07	-0.07	-0.08	-0.08	-0.09	-0.10
	TB-450-E1	N	-34.662	-34.662	-34.662	-34.662	-34.662	-34.662	-34.662
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	0.155	0.155	0.155	0.155	0.155	0.155	0.155
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.53	0.50	0.47	0.44	0.41	0.38	0.35
		Mz	0.02	0.01	-0.01	-0.02	-0.03	-0.04	-0.06
	TB-450-E2	N	-16.423	-16.423	-16.423	-16.423	-16.423	-16.423	-16.423
		Vy	0.150	0.150	0.150	0.150	0.150	0.150	0.150
		Vz	0.087	0.087	0.087	0.087	0.087	0.087	0.087
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.27	0.25	0.23	0.22	0.20	0.19	0.17
		Mz	0.00	-0.02	-0.05	-0.08	-0.11	-0.14	-0.16

Esforços em barras, por hipóteses/ações

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N20/N234	Peso próprio	N	-254.612	-254.573	-254.534	-254.495	-254.455	-254.416	-254.377
		Vy	0.185	0.185	0.185	0.185	0.185	0.185	0.185
		Vz	1.873	2.321	2.770	3.218	3.666	4.115	4.563
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.36	20.96	20.49	19.93	19.28	18.55	17.74
		Mz	-0.40	-0.44	-0.47	-0.51	-0.54	-0.58	-0.61
	Guarda Corpo	N	-72.307	-72.307	-72.307	-72.307	-72.307	-72.307	-72.307
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	0.656	0.656	0.656	0.656	0.656	0.656	0.656
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.81	5.68	5.56	5.44	5.32	5.19	5.07
		Mz	-0.02	-0.02	-0.01	-0.01	-0.01	0.00	0.00
	Laje	N	-536.689	-536.689	-536.689	-536.689	-536.689	-536.689	-536.689
		Vy	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214
		Vz	4.928	4.928	4.928	4.928	4.928	4.928	4.928
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	43.12	42.19	41.27	40.35	39.43	38.50	37.58
		Mz	-0.09	-0.05	-0.01	0.03	0.07	0.11	0.15
	Pavimentação	N	-293.705	-293.705	-293.705	-293.705	-293.705	-293.705	-293.705
		Vy	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123
		Vz	2.677	2.677	2.677	2.677	2.677	2.677	2.677
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	23.63	23.12	22.62	22.12	21.62	21.12	20.62
		Mz	-0.04	-0.02	0.00	0.02	0.05	0.07	0.09
	Recapeamento	N	-133.175	-133.175	-133.175	-133.175	-133.175	-133.175	-133.175
		Vy	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vz	1.222	1.222	1.222	1.222	1.222	1.222	1.222
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.70	10.47	10.24	10.01	9.79	9.56	9.33
		Mz	-0.02	-0.01	0.00	0.01	0.02	0.03	0.04
	Vento 0	N	-37.961	-37.914	-37.868	-37.821	-37.775	-37.728	-37.682
		Vy	-12.116	-12.278	-12.440	-12.602	-12.764	-12.925	-13.087
		Vz	-0.587	-0.591	-0.595	-0.599	-0.603	-0.607	-0.611
		Mt	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		My	3.92	4.03	4.14	4.25	4.36	4.48	4.59
		Mz	11.04	13.32	15.63	17.98	20.36	22.76	25.20

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
	Vento 180	N	37.446	37.446	37.446	37.446	37.446	37.446	37.446
		Vy	12.573	12.573	12.573	12.573	12.573	12.573	12.573
		Vz	1.187	1.187	1.187	1.187	1.187	1.187	1.187
		Mt	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		My	-3.93	-4.15	-4.38	-4.60	-4.82	-5.04	-5.27
		Mz	-11.78	-14.13	-16.49	-18.84	-21.20	-23.55	-25.91
	Multidão (Passeio)	N	-93.867	-93.867	-93.867	-93.867	-93.867	-93.867	-93.867
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	0.840	0.840	0.840	0.840	0.840	0.840	0.840
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.53	7.38	7.22	7.06	6.90	6.75	6.59
		Mz	-0.04	-0.04	-0.04	-0.04	-0.04	-0.03	-0.03
	Multidão - TB450	N	-306.010	-306.010	-306.010	-306.010	-306.010	-306.010	-306.010
		Vy	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167	-0.167
		Vz	2.836	2.836	2.836	2.836	2.836	2.836	2.836
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	24.60	24.07	23.54	23.01	22.48	21.95	21.42
		Mz	-0.01	0.02	0.05	0.08	0.11	0.14	0.17
	TB-450-A1	N	-61.134	-61.134	-61.134	-61.134	-61.134	-61.134	-61.134
		Vy	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156	-0.156
		Vz	1.281	1.281	1.281	1.281	1.281	1.281	1.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.58	1.34	1.10	0.86	0.62	0.38	0.14
		Mz	0.17	0.20	0.23	0.26	0.29	0.32	0.35
	TB-450-A2	N	-25.676	-25.676	-25.676	-25.676	-25.676	-25.676	-25.676
		Vy	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149
		Vz	0.534	0.534	0.534	0.534	0.534	0.534	0.534
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.68	0.58	0.48	0.38	0.28	0.18	0.08
		Mz	0.11	0.14	0.17	0.20	0.22	0.25	0.28
	TB-450-B1	N	-170.606	-170.606	-170.606	-170.606	-170.606	-170.606	-170.606
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	6.965	6.965	6.965	6.965	6.965	6.965	6.965
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.21	19.90	18.60	17.29	15.99	14.68	13.38

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		Mz	-0.04	-0.03	-0.03	-0.02	-0.02	-0.01	0.00
	TB-450-B2	N	-71.208	-71.208	-71.208	-71.208	-71.208	-71.208	-71.208
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	2.942	2.942	2.942	2.942	2.942	2.942	2.942
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.03	8.48	7.93	7.38	6.82	6.27	5.72
		Mz	-0.10	-0.09	-0.09	-0.09	-0.08	-0.08	-0.07
	TB-450-C1	N	-79.245	-79.245	-79.245	-79.245	-79.245	-79.245	-79.245
		Vy	-0.302	-0.302	-0.302	-0.302	-0.302	-0.302	-0.302
		Vz	-1.326	-1.326	-1.326	-1.326	-1.326	-1.326	-1.326
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.02	9.26	9.51	9.76	10.01	10.26	10.51
		Mz	0.14	0.20	0.25	0.31	0.37	0.42	0.48
	TB-450-C2	N	-190.543	-190.543	-190.543	-190.543	-190.543	-190.543	-190.543
		Vy	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081	-0.081
		Vz	-3.224	-3.224	-3.224	-3.224	-3.224	-3.224	-3.224
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.23	21.83	22.44	23.04	23.65	24.25	24.85
		Mz	0.03	0.04	0.06	0.07	0.09	0.10	0.12
	TB-450-D1	N	-120.039	-120.039	-120.039	-120.039	-120.039	-120.039	-120.039
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	0.124	0.124	0.124	0.124	0.124	0.124	0.124
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.09	2.07	2.05	2.02	2.00	1.98	1.95
		Mz	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	TB-450-D2	N	-50.052	-50.052	-50.052	-50.052	-50.052	-50.052	-50.052
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.94	0.93	0.92	0.91	0.90	0.89	0.88
		Mz	-0.10	-0.10	-0.11	-0.11	-0.12	-0.13	-0.13
	TB-450-E1	N	-34.662	-34.662	-34.662	-34.662	-34.662	-34.662	-34.662
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	0.155	0.155	0.155	0.155	0.155	0.155	0.155
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		My	0.35	0.32	0.30	0.27	0.24	0.21	0.18
		Mz	-0.06	-0.07	-0.08	-0.09	-0.10	-0.12	-0.13
	TB-450-E2	N	-16.423	-16.423	-16.423	-16.423	-16.423	-16.423	-16.423
		Vy	0.150	0.150	0.150	0.150	0.150	0.150	0.150
		Vz	0.087	0.087	0.087	0.087	0.087	0.087	0.087
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.17	0.15	0.14	0.12	0.10	0.09	0.07
		Mz	-0.16	-0.19	-0.22	-0.25	-0.28	-0.30	-0.33

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N234/N48	Peso próprio	N	-260.451	-260.425	-260.398
		Vy	0.481	0.481	0.481
		Vz	-9.440	-9.140	-8.841
		Mt	0.11	0.11	0.11
		My	9.39	10.55	11.68
		Mz	-0.62	-0.68	-0.74
	Guarda Corpo	N	-73.280	-73.280	-73.280
		Vy	0.054	0.054	0.054
		Vz	-0.783	-0.783	-0.783
		Mt	0.03	0.03	0.03
		My	3.11	3.21	3.31
		Mz	0.00	-0.01	-0.02
	Laje	N	-543.785	-543.785	-543.785
		Vy	0.579	0.579	0.579
		Vz	-5.152	-5.152	-5.152
		Mt	0.31	0.31	0.31
		My	23.08	23.72	24.37
		Mz	0.13	0.06	-0.02
	Pavimentação	N	-297.618	-297.618	-297.618
		Vy	0.327	0.327	0.327
		Vz	-2.919	-2.919	-2.919
		Mt	0.17	0.17	0.17

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	12.64	13.01	13.37
		Mz	0.08	0.04	0.00
	Recapeamento	N	-134.936	-134.936	-134.936
		Vy	0.147	0.147	0.147
		Vz	-1.276	-1.276	-1.276
		Mt	0.08	0.08	0.08
		My	5.73	5.89	6.05
		Mz	0.03	0.02	0.00
	Vento 0	N	-39.490	-39.459	-39.428
		Vy	-10.833	-10.941	-11.049
		Vz	-5.957	-5.960	-5.963
		Mt	2.85	2.85	2.85
		My	1.39	2.13	2.88
		Mz	24.67	26.03	27.41
	Vento 180	N	40.039	40.039	40.039
		Vy	7.831	7.831	7.831
		Vz	6.648	6.648	6.648
		Mt	-3.04	-3.04	-3.04
		My	-1.15	-1.98	-2.81
		Mz	-25.49	-26.47	-27.45
	Multidão (Passeio)	N	-95.156	-95.156	-95.156
		Vy	0.033	0.033	0.033
		Vz	-1.148	-1.148	-1.148
		Mt	0.02	0.02	0.02
		My	4.04	4.19	4.33
		Mz	-0.03	-0.04	-0.04
	Multidão - TB450	N	-309.995	-309.995	-309.995
		Vy	0.428	0.428	0.428
		Vz	-2.614	-2.614	-2.614
		Mt	0.23	0.23	0.23
		My	13.15	13.48	13.80
		Mz	0.16	0.10	0.05
	TB-450-A1	N	-53.025	-53.025	-53.025
		Vy	-0.099	-0.099	-0.099

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	28.680	28.680	28.680
		Mt	0.04	0.04	0.04
		My	7.60	4.01	0.43
		Mz	0.34	0.35	0.36
	TB-450-A2	N	-22.224	-22.224	-22.224
		Vy	-0.094	-0.094	-0.094
		Vz	12.212	12.212	12.212
		Mt	0.03	0.03	0.03
		My	3.24	1.72	0.19
		Mz	0.27	0.29	0.30
	TB-450-B1	N	-151.671	-151.671	-151.671
		Vy	-0.050	-0.050	-0.050
		Vz	74.467	74.467	74.467
		Mt	0.00	0.00	0.00
		My	28.72	19.41	10.10
		Mz	0.00	0.00	0.01
	TB-450-B2	N	-63.196	-63.196	-63.196
		Vy	-0.011	-0.011	-0.011
		Vz	31.518	31.518	31.518
		Mt	0.00	0.00	0.00
		My	12.21	8.27	4.33
		Mz	-0.07	-0.07	-0.07
	TB-450-C1	N	-83.469	-83.469	-83.469
		Vy	0.420	0.420	0.420
		Vz	-12.287	-12.287	-12.287
		Mt	0.28	0.28	0.28
		My	4.82	6.35	7.89
		Mz	0.46	0.40	0.35
	TB-450-C2	N	-200.720	-200.720	-200.720
		Vy	0.693	0.693	0.693
		Vz	-30.325	-30.325	-30.325
		Mt	0.29	0.29	0.29
		My	11.53	15.32	19.11
		Mz	0.10	0.01	-0.07

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-D1	N	-138.295	-138.295	-138.295
		Vy	0.003	0.003	0.003
		Vz	-58.458	-58.458	-58.458
		Mt	0.01	0.01	0.01
		My	-16.73	-9.42	-2.12
		Mz	0.02	0.02	0.02
	TB-450-D2	N	-57.764	-57.764	-57.764
		Vy	0.030	0.030	0.030
		Vz	-24.672	-24.672	-24.672
		Mt	0.00	0.00	0.00
		My	-7.02	-3.94	-0.86
		Mz	-0.13	-0.14	-0.14
	TB-450-E1	N	-40.096	-40.096	-40.096
		Vy	0.043	0.043	0.043
		Vz	-17.290	-17.290	-17.290
		Mt	-0.01	-0.01	-0.01
		My	-5.39	-3.23	-1.07
		Mz	-0.13	-0.13	-0.14
	TB-450-E2	N	-19.043	-19.043	-19.043
		Vy	0.098	0.098	0.098
		Vz	-8.338	-8.338	-8.338
		Mt	-0.03	-0.03	-0.03
		My	-2.61	-1.57	-0.52
		Mz	-0.33	-0.34	-0.35

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N33/N226	Peso próprio	N	-172.368	-172.332	-172.295
		Vy	-0.059	-0.059	-0.059
		Vz	-152.046	-151.748	-151.449
		Mt	0.00	0.00	0.00
		My	-11.52	7.47	26.42

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-0.11	-0.10	-0.09
	Guarda Corpo	N	-46.435	-46.435	-46.435
		Vy	-0.003	-0.003	-0.003
		Vz	-45.474	-45.474	-45.474
		Mt	0.00	0.00	0.00
		My	-3.43	2.26	7.94
		Mz	0.00	0.00	0.00
	Laje	N	-344.873	-344.873	-344.873
		Vy	0.016	0.016	0.016
		Vz	-337.712	-337.712	-337.712
		Mt	0.02	0.02	0.02
		My	-25.43	16.78	59.00
		Mz	0.03	0.02	0.02
	Pavimentação	N	-188.621	-188.621	-188.621
		Vy	0.011	0.011	0.011
		Vz	-184.770	-184.770	-184.770
		Mt	0.01	0.01	0.01
		My	-13.95	9.15	32.25
		Mz	0.02	0.01	0.01
	Recapeamento	N	-85.572	-85.572	-85.572
		Vy	0.005	0.005	0.005
		Vz	-83.799	-83.799	-83.799
		Mt	0.00	0.00	0.00
		My	-6.31	4.16	14.64
		Mz	0.01	0.01	0.01
	Vento 0	N	-19.934	-19.965	-19.996
		Vy	-3.730	-3.622	-3.513
		Vz	-19.977	-19.974	-19.970
		Mt	-0.08	-0.08	-0.08
		My	-2.32	0.17	2.67
		Mz	-4.39	-3.93	-3.49
	Vento 180	N	20.395	20.395	20.395
		Vy	-0.311	-0.311	-0.311
		Vz	19.109	19.109	19.109

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-0.16	-0.16	-0.16
		My	2.30	-0.09	-2.48
		Mz	2.78	2.82	2.86
	Multidão (Passeio)	N	-60.245	-60.245	-60.245
		Vy	-0.012	-0.012	-0.012
		Vz	-58.998	-58.998	-58.998
		Mt	0.00	0.00	0.00
		My	-4.45	2.93	10.30
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	-196.716	-196.716	-196.716
		Vy	0.030	0.030	0.030
		Vz	-192.640	-192.640	-192.640
		Mt	0.01	0.01	0.01
		My	-14.51	9.57	33.65
		Mz	0.02	0.02	0.02
	TB-450-A1	N	-19.707	-19.707	-19.707
		Vy	-0.006	-0.006	-0.006
		Vz	-22.145	-22.145	-22.145
		Mt	0.00	0.00	0.00
		My	-3.28	-0.51	2.26
		Mz	-0.03	-0.03	-0.03
	TB-450-A2	N	-8.429	-8.429	-8.429
		Vy	-0.009	-0.009	-0.009
		Vz	-9.536	-9.536	-9.536
		Mt	0.00	0.00	0.00
		My	-1.41	-0.22	0.97
		Mz	0.00	0.00	0.00
	TB-450-B1	N	-56.932	-56.932	-56.932
		Vy	-0.026	-0.026	-0.026
		Vz	-63.992	-63.992	-63.992
		Mt	0.00	0.00	0.00
		My	-9.47	-1.47	6.53
		Mz	-0.01	-0.01	-0.01
	TB-450-B2	N	-23.993	-23.993	-23.993

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.025	-0.025	-0.025
		Vz	-27.213	-27.213	-27.213
		Mt	0.00	0.00	0.00
		My	-4.02	-0.62	2.79
		Mz	0.03	0.03	0.03
	TB-450-C1	N	-39.975	-39.975	-39.975
		Vy	0.088	0.088	0.088
		Vz	-45.260	-45.260	-45.260
		Mt	0.02	0.02	0.02
		My	-6.56	-0.90	4.76
		Mz	0.08	0.07	0.06
	TB-450-C2	N	-94.506	-94.506	-94.506
		Vy	0.083	0.083	0.083
		Vz	-106.111	-106.111	-106.111
		Mt	0.01	0.01	0.01
		My	-15.44	-2.18	11.09
		Mz	0.04	0.03	0.02
	TB-450-D1	N	-127.457	-127.457	-127.457
		Vy	0.033	0.033	0.033
		Vz	-140.083	-140.083	-140.083
		Mt	0.01	0.01	0.01
		My	-10.02	7.49	25.00
		Mz	-0.05	-0.05	-0.06
	TB-450-D2	N	-53.707	-53.707	-53.707
		Vy	0.024	0.024	0.024
		Vz	-59.432	-59.432	-59.432
		Mt	0.02	0.02	0.02
		My	-4.25	3.18	10.61
		Mz	0.07	0.07	0.06
	TB-450-E1	N	-63.037	-63.037	-63.037
		Vy	-0.042	-0.042	-0.042
		Vz	-32.820	-32.820	-32.820
		Mt	-0.02	-0.02	-0.02
		My	8.60	12.71	16.81

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-0.10	-0.09	-0.09
	TB-450-E2	N	-31.148	-31.148	-31.148
		Vy	-0.030	-0.030	-0.030
		Vz	-13.623	-13.623	-13.623
		Mt	0.00	0.00	0.00
		My	4.54	6.24	7.94
		Mz	0.04	0.04	0.05

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N226/N22	Peso próprio	N	-185.028	-184.974	-184.919	-184.864	-184.809	-184.755	-184.700
		Vy	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053
		Vz	-12.099	-11.650	-11.201	-10.753	-10.304	-9.855	-9.407
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.26	-3.03	-0.88	1.18	3.17	5.06	6.87
		Mz	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03
	Guarda Corpo	N	-50.294	-50.294	-50.294	-50.294	-50.294	-50.294	-50.294
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-2.795	-2.795	-2.795	-2.795	-2.795	-2.795	-2.795
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.35	-0.82	-0.30	0.23	0.75	1.28	1.80
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-373.530	-373.530	-373.530	-373.530	-373.530	-373.530	-373.530
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-20.758	-20.758	-20.758	-20.758	-20.758	-20.758	-20.758
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.00	-6.10	-2.19	1.71	5.62	9.52	13.42
		Mz	0.02	0.02	0.01	0.01	0.01	0.00	0.00
	Pavimentação	N	-204.303	-204.303	-204.303	-204.303	-204.303	-204.303	-204.303
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-11.358	-11.358	-11.358	-11.358	-11.358	-11.358	-11.358
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.52	-3.38	-1.24	0.89	3.03	5.17	7.30
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Recapeamento	N	-92.683	-92.683	-92.683	-92.683	-92.683	-92.683	-92.683
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-5.151	-5.151	-5.151	-5.151	-5.151	-5.151	-5.151
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.49	-1.52	-0.55	0.42	1.39	2.36	3.33
		Mz	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-22.416	-22.463	-22.509	-22.556	-22.602	-22.649	-22.696
		Vy	-1.472	-1.309	-1.147	-0.984	-0.821	-0.658	-0.496
		Vz	-1.680	-1.674	-1.669	-1.663	-1.657	-1.652	-1.646
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-2.33	-2.02	-1.70	-1.39	-1.08	-0.77	-0.46
		Mz	-3.50	-3.24	-3.01	-2.81	-2.64	-2.50	-2.39
	Vento 180	N	22.077	22.077	22.077	22.077	22.077	22.077	22.077
		Vy	0.276	0.276	0.276	0.276	0.276	0.276	0.276
		Vz	1.028	1.028	1.028	1.028	1.028	1.028	1.028
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	1.63	1.44	1.25	1.05	0.86	0.67	0.47
		Mz	2.86	2.81	2.76	2.70	2.65	2.60	2.55
	Multidão (Passeio)	N	-65.252	-65.252	-65.252	-65.252	-65.252	-65.252	-65.252
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-3.625	-3.625	-3.625	-3.625	-3.625	-3.625	-3.625
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.75	-1.07	-0.39	0.29	0.97	1.66	2.34
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	Multidão - TB450	N	-213.062	-213.062	-213.062	-213.062	-213.062	-213.062	-213.062
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	-11.843	-11.843	-11.843	-11.843	-11.843	-11.843	-11.843
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.71	-3.48	-1.25	0.97	3.20	5.43	7.66
		Mz	0.02	0.01	0.01	0.00	-0.01	-0.01	-0.02
	TB-450-A1	N	-21.740	-21.740	-21.740	-21.740	-21.740	-21.740	-21.740
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-1.310	-1.310	-1.310	-1.310	-1.310	-1.310	-1.310
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.69	-2.44	-2.19	-1.95	-1.70	-1.45	-1.21

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02
	TB-450-A2	N	-9.305	-9.305	-9.305	-9.305	-9.305	-9.305	-9.305
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.562	-0.562	-0.562	-0.562	-0.562	-0.562	-0.562
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.16	-1.05	-0.95	-0.84	-0.73	-0.63	-0.52
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-62.805	-62.805	-62.805	-62.805	-62.805	-62.805	-62.805
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-3.802	-3.802	-3.802	-3.802	-3.802	-3.802	-3.802
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.76	-7.04	-6.33	-5.61	-4.90	-4.18	-3.47
		Mz	-0.01	0.00	0.00	0.00	0.00	0.00	0.01
	TB-450-B2	N	-26.490	-26.490	-26.490	-26.490	-26.490	-26.490	-26.490
		Vy	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034
		Vz	-1.607	-1.607	-1.607	-1.607	-1.607	-1.607	-1.607
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.29	-2.99	-2.68	-2.38	-2.08	-1.78	-1.47
		Mz	0.03	0.04	0.05	0.05	0.06	0.07	0.07
	TB-450-C1	N	-44.101	-44.101	-44.101	-44.101	-44.101	-44.101	-44.101
		Vy	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Vz	-2.855	-2.855	-2.855	-2.855	-2.855	-2.855	-2.855
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.28	-4.74	-4.21	-3.67	-3.13	-2.59	-2.06
		Mz	0.06	0.05	0.04	0.03	0.02	0.01	0.00
	TB-450-C2	N	-104.187	-104.187	-104.187	-104.187	-104.187	-104.187	-104.187
		Vy	0.081	0.081	0.081	0.081	0.081	0.081	0.081
		Vz	-6.720	-6.720	-6.720	-6.720	-6.720	-6.720	-6.720
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.47	-11.21	-9.94	-8.68	-7.41	-6.15	-4.88
		Mz	0.02	0.01	-0.01	-0.02	-0.04	-0.05	-0.07
	TB-450-D1	N	-138.835	-138.835	-138.835	-138.835	-138.835	-138.835	-138.835
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	-11.917	-11.917	-11.917	-11.917	-11.917	-11.917	-11.917
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	-2.24	0.00	2.25	4.49	6.73	8.97	11.21
		Mz	-0.06	-0.06	-0.06	-0.07	-0.07	-0.08	-0.08
	TB-450-D2	N	-58.535	-58.535	-58.535	-58.535	-58.535	-58.535	-58.535
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-5.038	-5.038	-5.038	-5.038	-5.038	-5.038	-5.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.95	0.00	0.94	1.89	2.84	3.79	4.74
		Mz	0.06	0.06	0.07	0.07	0.07	0.07	0.07
	TB-450-E1	N	-65.075	-65.075	-65.075	-65.075	-65.075	-65.075	-65.075
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.638	0.638	0.638	0.638	0.638	0.638	0.638
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.23	12.10	11.98	11.86	11.74	11.62	11.50
		Mz	-0.09	-0.08	-0.08	-0.08	-0.07	-0.07	-0.07
	TB-450-E2	N	-31.982	-31.982	-31.982	-31.982	-31.982	-31.982	-31.982
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.557	0.557	0.557	0.557	0.557	0.557	0.557
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.05	5.95	5.84	5.74	5.63	5.53	5.42
		Mz	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N22/N227	Peso próprio	N	-184.700	-184.645	-184.590	-184.536	-184.481	-184.426	-184.371
		Vy	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053
		Vz	-9.407	-8.958	-8.510	-8.061	-7.612	-7.164	-6.715
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.87	8.60	10.24	11.80	13.28	14.67	15.97
		Mz	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03
	Guarda Corpo	N	-50.294	-50.294	-50.294	-50.294	-50.294	-50.294	-50.294
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-2.795	-2.795	-2.795	-2.795	-2.795	-2.795	-2.795
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.80	2.33	2.86	3.38	3.91	4.43	4.96

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	0.00	0.00	0.00	0.00	0.01	0.01	0.01
	Laje	N	-373.530	-373.530	-373.530	-373.530	-373.530	-373.530	-373.530
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-20.758	-20.758	-20.758	-20.758	-20.758	-20.758	-20.758
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.42	17.33	21.23	25.14	29.04	32.95	36.85
		Mz	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02
	Pavimentação	N	-204.303	-204.303	-204.303	-204.303	-204.303	-204.303	-204.303
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-11.358	-11.358	-11.358	-11.358	-11.358	-11.358	-11.358
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.30	9.44	11.58	13.71	15.85	17.99	20.12
		Mz	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02
	Recapeamento	N	-92.683	-92.683	-92.683	-92.683	-92.683	-92.683	-92.683
		Vy	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Vz	-5.151	-5.151	-5.151	-5.151	-5.151	-5.151	-5.151
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.33	4.30	5.27	6.24	7.20	8.17	9.14
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	Vento 0	N	-22.696	-22.742	-22.789	-22.835	-22.882	-22.928	-22.975
		Vy	-0.496	-0.333	-0.170	-0.008	0.155	0.318	0.480
		Vz	-1.646	-1.640	-1.635	-1.629	-1.623	-1.618	-1.612
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.46	-0.15	0.16	0.47	0.77	1.08	1.38
		Mz	-2.39	-2.31	-2.27	-2.25	-2.26	-2.31	-2.38
	Vento 180	N	22.077	22.077	22.077	22.077	22.077	22.077	22.077
		Vy	0.276	0.276	0.276	0.276	0.276	0.276	0.276
		Vz	1.028	1.028	1.028	1.028	1.028	1.028	1.028
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	0.47	0.28	0.09	-0.11	-0.30	-0.49	-0.69
		Mz	2.55	2.50	2.44	2.39	2.34	2.29	2.24
	Multidão (Passeio)	N	-65.252	-65.252	-65.252	-65.252	-65.252	-65.252	-65.252
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-3.625	-3.625	-3.625	-3.625	-3.625	-3.625	-3.625
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	2.34	3.02	3.70	4.38	5.07	5.75	6.43
		Mz	0.01	0.01	0.01	0.02	0.02	0.02	0.02
	Multidão - TB450	N	-213.062	-213.062	-213.062	-213.062	-213.062	-213.062	-213.062
		Vy	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vz	-11.843	-11.843	-11.843	-11.843	-11.843	-11.843	-11.843
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.66	9.89	12.11	14.34	16.57	18.80	21.03
		Mz	-0.02	-0.02	-0.03	-0.03	-0.04	-0.04	-0.05
	TB-450-A1	N	-21.740	-21.740	-21.740	-21.740	-21.740	-21.740	-21.740
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	-1.310	-1.310	-1.310	-1.310	-1.310	-1.310	-1.310
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.21	-0.96	-0.71	-0.47	-0.22	0.03	0.27
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-A2	N	-9.305	-9.305	-9.305	-9.305	-9.305	-9.305	-9.305
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	-0.562	-0.562	-0.562	-0.562	-0.562	-0.562	-0.562
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.52	-0.42	-0.31	-0.21	-0.10	0.01	0.11
		Mz	0.00	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-B1	N	-62.805	-62.805	-62.805	-62.805	-62.805	-62.805	-62.805
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-3.802	-3.802	-3.802	-3.802	-3.802	-3.802	-3.802
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.47	-2.75	-2.04	-1.32	-0.61	0.11	0.83
		Mz	0.01	0.01	0.01	0.01	0.02	0.02	0.02
	TB-450-B2	N	-26.490	-26.490	-26.490	-26.490	-26.490	-26.490	-26.490
		Vy	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034
		Vz	-1.607	-1.607	-1.607	-1.607	-1.607	-1.607	-1.607
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.47	-1.17	-0.87	-0.57	-0.27	0.04	0.34
		Mz	0.07	0.08	0.09	0.09	0.10	0.11	0.11
	TB-450-C1	N	-44.101	-44.101	-44.101	-44.101	-44.101	-44.101	-44.101
		Vy	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		Vz	-2.855	-2.855	-2.855	-2.855	-2.855	-2.855	-2.855

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.06	-1.52	-0.98	-0.45	0.09	0.63	1.17
		Mz	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06
	TB-450-C2	N	-104.187	-104.187	-104.187	-104.187	-104.187	-104.187	-104.187
		Vy	0.081	0.081	0.081	0.081	0.081	0.081	0.081
		Vz	-6.720	-6.720	-6.720	-6.720	-6.720	-6.720	-6.720
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.88	-3.62	-2.36	-1.09	0.17	1.44	2.70
		Mz	-0.07	-0.09	-0.10	-0.12	-0.13	-0.15	-0.16
	TB-450-D1	N	-138.835	-138.835	-138.835	-138.835	-138.835	-138.835	-138.835
		Vy	0.023	0.023	0.023	0.023	0.023	0.023	0.023
		Vz	-11.917	-11.917	-11.917	-11.917	-11.917	-11.917	-11.917
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.21	13.46	15.70	17.94	20.18	22.42	24.66
		Mz	-0.08	-0.09	-0.09	-0.09	-0.10	-0.10	-0.11
	TB-450-D2	N	-58.535	-58.535	-58.535	-58.535	-58.535	-58.535	-58.535
		Vy	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		Vz	-5.038	-5.038	-5.038	-5.038	-5.038	-5.038	-5.038
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.74	5.68	6.63	7.58	8.53	9.48	10.42
		Mz	0.07	0.07	0.07	0.07	0.08	0.08	0.08
	TB-450-E1	N	-65.075	-65.075	-65.075	-65.075	-65.075	-65.075	-65.075
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.638	0.638	0.638	0.638	0.638	0.638	0.638
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.50	11.38	11.26	11.14	11.02	10.90	10.78
		Mz	-0.07	-0.06	-0.06	-0.06	-0.06	-0.05	-0.05
	TB-450-E2	N	-31.982	-31.982	-31.982	-31.982	-31.982	-31.982	-31.982
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.557	0.557	0.557	0.557	0.557	0.557	0.557
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.42	5.32	5.21	5.11	5.00	4.90	4.79
		Mz	0.05	0.06	0.06	0.06	0.06	0.06	0.06

Esforços em barras, por hipóteses/ações

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N227/N54	Peso próprio	N	-226.412	-226.376	-226.339
		Vy	-0.048	-0.048	-0.048
		Vz	-129.005	-128.707	-128.409
		Mt	0.02	0.02	0.02
		My	-21.29	-5.19	10.88
		Mz	0.02	0.03	0.03
	Guarda Corpo	N	-61.609	-61.609	-61.609
		Vy	-0.001	-0.001	-0.001
		Vz	-35.577	-35.577	-35.577
		Mt	0.00	0.00	0.00
		My	-5.41	-0.97	3.48
		Mz	0.01	0.01	0.01
	Laje	N	-457.535	-457.535	-457.535
		Vy	0.021	0.021	0.021
		Vz	-264.162	-264.162	-264.162
		Mt	0.02	0.02	0.02
		My	-40.15	-7.13	25.89
		Mz	-0.03	-0.03	-0.03
	Pavimentação	N	-250.309	-250.309	-250.309
		Vy	0.013	0.013	0.013
		Vz	-144.670	-144.670	-144.670
		Mt	0.01	0.01	0.01
		My	-22.04	-3.96	14.13
		Mz	-0.02	-0.02	-0.02
	Recapeamento	N	-113.531	-113.531	-113.531
		Vy	0.006	0.006	0.006
		Vz	-65.558	-65.558	-65.558
		Mt	0.01	0.01	0.01
		My	-9.97	-1.77	6.42
		Mz	-0.01	-0.01	-0.01
	Vento 0	N	-30.072	-30.103	-30.134
		Vy	2.616	2.724	2.833
		Vz	-20.473	-20.469	-20.465
		Mt	0.55	0.55	0.55
		My	-5.02	-2.46	0.10

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-2.38	-2.71	-3.06
	Vento 180	N	28.396	28.396	28.396
		Vy	0.833	0.833	0.833
		Vz	19.926	19.926	19.926
		Mt	-0.22	-0.22	-0.22
		My	4.75	2.26	-0.23
		Mz	2.33	2.23	2.12
	Multidão (Passeio)	N	-79.932	-79.932	-79.932
		Vy	-0.007	-0.007	-0.007
		Vz	-46.161	-46.161	-46.161
		Mt	0.00	0.00	0.00
		My	-7.03	-1.26	4.51
		Mz	0.02	0.02	0.02
	Multidão - TB450	N	-260.985	-260.985	-260.985
		Vy	0.027	0.027	0.027
		Vz	-150.701	-150.701	-150.701
		Mt	0.02	0.02	0.02
		My	-22.90	-4.06	14.78
		Mz	-0.05	-0.06	-0.06
	TB-450-A1	N	-29.436	-29.436	-29.436
		Vy	-0.002	-0.002	-0.002
		Vz	-24.072	-24.072	-24.072
		Mt	0.01	0.01	0.01
		My	-6.50	-3.49	-0.48
		Mz	-0.02	-0.02	-0.02
	TB-450-A2	N	-12.619	-12.619	-12.619
		Vy	-0.001	-0.001	-0.001
		Vz	-10.366	-10.366	-10.366
		Mt	0.00	0.00	0.00
		My	-2.81	-1.51	-0.22
		Mz	0.01	0.01	0.01
	TB-450-B1	N	-85.028	-85.028	-85.028
		Vy	-0.002	-0.002	-0.002
		Vz	-69.531	-69.531	-69.531

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.00	0.00	0.00
		My	-18.74	-10.05	-1.35
		Mz	0.02	0.02	0.02
	TB-450-B2	N	-35.939	-35.939	-35.939
		Vy	-0.043	-0.043	-0.043
		Vz	-29.558	-29.558	-29.558
		Mt	-0.01	-0.01	-0.01
		My	-7.98	-4.28	-0.59
		Mz	0.11	0.12	0.12
	TB-450-C1	N	-59.557	-59.557	-59.557
		Vy	0.024	0.024	0.024
		Vz	-48.612	-48.612	-48.612
		Mt	0.02	0.02	0.02
		My	-12.40	-6.32	-0.24
		Mz	-0.07	-0.07	-0.07
	TB-450-C2	N	-140.470	-140.470	-140.470
		Vy	0.082	0.082	0.082
		Vz	-114.109	-114.109	-114.109
		Mt	0.02	0.02	0.02
		My	-29.15	-14.89	-0.62
		Mz	-0.17	-0.18	-0.19
	TB-450-D1	N	-167.652	-167.652	-167.652
		Vy	0.016	0.016	0.016
		Vz	-94.229	-94.229	-94.229
		Mt	-0.01	-0.01	-0.01
		My	-2.26	9.52	21.30
		Mz	-0.11	-0.11	-0.11
	TB-450-D2	N	-70.788	-70.788	-70.788
		Vy	-0.037	-0.037	-0.037
		Vz	-40.055	-40.055	-40.055
		Mt	-0.01	-0.01	-0.01
		My	-1.02	3.99	9.00
		Mz	0.08	0.08	0.09
	TB-450-E1	N	-61.556	-61.556	-61.556

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.010	0.010	0.010
		Vz	13.687	13.687	13.687
		Mt	0.00	0.00	0.00
		My	12.03	10.32	8.61
		Mz	-0.05	-0.05	-0.05
	TB-450-E2	N	-30.151	-30.151	-30.151
		Vy	0.014	0.014	0.014
		Vz	7.091	7.091	7.091
		Mt	0.01	0.01	0.01
		My	5.63	4.74	3.86
		Mz	0.06	0.06	0.06

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N54/N228	Peso próprio	N	-220.293	-220.256	-220.220
		Vy	-0.194	-0.194	-0.194
		Vz	-119.538	-119.240	-118.942
		Mt	0.00	0.00	0.00
		My	11.56	26.48	41.37
		Mz	0.03	0.06	0.08
	Guarda Corpo	N	-61.110	-61.110	-61.110
		Vy	0.018	0.018	0.018
		Vz	-35.570	-35.570	-35.570
		Mt	0.00	0.00	0.00
		My	3.52	7.97	12.41
		Mz	0.01	0.00	0.00
	Laje	N	-453.832	-453.832	-453.832
		Vy	0.055	0.055	0.055
		Vz	-264.114	-264.114	-264.114
		Mt	0.02	0.02	0.02
		My	26.18	59.19	92.20
		Mz	-0.03	-0.04	-0.05

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	-248.279	-248.279	-248.279
		Vy	0.025	0.025	0.025
		Vz	-144.644	-144.644	-144.644
		Mt	0.01	0.01	0.01
		My	14.28	32.36	50.44
		Mz	-0.02	-0.02	-0.03
	Recapeamento	N	-112.612	-112.612	-112.612
		Vy	0.012	0.012	0.012
		Vz	-65.546	-65.546	-65.546
		Mt	0.01	0.01	0.01
		My	6.49	14.69	22.88
		Mz	-0.01	-0.01	-0.01
	Vento 0	N	-31.105	-31.136	-31.167
		Vy	-9.860	-9.752	-9.644
		Vz	-20.917	-20.913	-20.909
		Mt	-0.42	-0.42	-0.42
		My	0.02	2.63	5.24
		Mz	-3.37	-2.14	-0.93
	Vento 180	N	31.611	31.611	31.611
		Vy	6.150	6.150	6.150
		Vz	20.123	20.123	20.123
		Mt	0.19	0.19	0.19
		My	0.02	-2.50	-5.01
		Mz	2.25	1.48	0.72
	Multidão (Passeio)	N	-79.285	-79.285	-79.285
		Vy	0.039	0.039	0.039
		Vz	-46.151	-46.151	-46.151
		Mt	0.00	0.00	0.00
		My	4.56	10.33	16.10
		Mz	0.02	0.02	0.01
	Multidão - TB450	N	-258.873	-258.873	-258.873
		Vy	-0.011	-0.011	-0.011
		Vz	-150.676	-150.676	-150.676
		Mt	0.01	0.01	0.01

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	14.94	33.77	52.61
		Mz	-0.06	-0.06	-0.06
	TB-450-A1	N	-29.170	-29.170	-29.170
		Vy	-0.061	-0.061	-0.061
		Vz	-24.071	-24.071	-24.071
		Mt	0.00	0.00	0.00
		My	-0.46	2.55	5.55
		Mz	-0.02	-0.02	-0.01
	TB-450-A2	N	-12.361	-12.361	-12.361
		Vy	-0.059	-0.059	-0.059
		Vz	-10.364	-10.364	-10.364
		Mt	0.00	0.00	0.00
		My	-0.20	1.10	2.40
		Mz	0.01	0.01	0.02
	TB-450-B1	N	-84.342	-84.342	-84.342
		Vy	0.038	0.038	0.038
		Vz	-69.521	-69.521	-69.521
		Mt	0.01	0.01	0.01
		My	-1.30	7.39	16.08
		Mz	0.02	0.02	0.01
	TB-450-B2	N	-35.244	-35.244	-35.244
		Vy	0.072	0.072	0.072
		Vz	-29.545	-29.545	-29.545
		Mt	0.00	0.00	0.00
		My	-0.53	3.16	6.85
		Mz	0.13	0.12	0.11
	TB-450-C1	N	-58.661	-58.661	-58.661
		Vy	-0.196	-0.196	-0.196
		Vz	-48.610	-48.610	-48.610
		Mt	0.00	0.00	0.00
		My	-0.18	5.90	11.98
		Mz	-0.08	-0.05	-0.03
	TB-450-C2	N	-139.586	-139.586	-139.586
		Vy	-0.096	-0.096	-0.096

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-114.105	-114.105	-114.105
		Mt	0.01	0.01	0.01
		My	-0.55	13.71	27.97
		Mz	-0.19	-0.18	-0.17
	TB-450-D1	N	-167.025	-167.025	-167.025
		Vy	0.097	0.097	0.097
		Vz	-94.217	-94.217	-94.217
		Mt	0.00	0.00	0.00
		My	21.35	33.13	44.90
		Mz	-0.11	-0.12	-0.13
	TB-450-D2	N	-70.151	-70.151	-70.151
		Vy	0.073	0.073	0.073
		Vz	-40.041	-40.041	-40.041
		Mt	0.00	0.00	0.00
		My	9.05	14.05	19.06
		Mz	0.09	0.08	0.07
	TB-450-E1	N	-61.299	-61.299	-61.299
		Vy	0.018	0.018	0.018
		Vz	13.690	13.690	13.690
		Mt	0.00	0.00	0.00
		My	8.63	6.92	5.21
		Mz	-0.05	-0.05	-0.06
	TB-450-E2	N	-29.773	-29.773	-29.773
		Vy	0.073	0.073	0.073
		Vz	7.097	7.097	7.097
		Mt	0.01	0.01	0.01
		My	3.88	3.00	2.11
		Mz	0.06	0.05	0.04

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N228/N32	Peso próprio	N	-230.658	-230.603	-230.549	-230.494	-230.439	-230.384	-230.330
		Vy	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-6.258	-5.809	-5.361	-4.912	-4.464	-4.015	-3.566
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.53	15.67	16.72	17.68	18.57	19.36	20.08
		Mz	0.08	0.12	0.15	0.19	0.23	0.27	0.30
	Guarda Corpo	N	-64.266	-64.266	-64.266	-64.266	-64.266	-64.266	-64.266
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-0.974	-0.974	-0.974	-0.974	-0.974	-0.974	-0.974
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.61	4.79	4.98	5.16	5.34	5.53	5.71
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
	Laje	N	-477.259	-477.259	-477.259	-477.259	-477.259	-477.259	-477.259
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-7.307	-7.307	-7.307	-7.307	-7.307	-7.307	-7.307
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	34.29	35.66	37.04	38.41	39.79	41.16	42.54
		Mz	-0.05	-0.05	-0.05	-0.05	-0.06	-0.06	-0.06
	Pavimentação	N	-261.111	-261.111	-261.111	-261.111	-261.111	-261.111	-261.111
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-4.020	-4.020	-4.020	-4.020	-4.020	-4.020	-4.020
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	18.72	19.47	20.23	20.99	21.74	22.50	23.26
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
	Recapeamento	N	-118.426	-118.426	-118.426	-118.426	-118.426	-118.426	-118.426
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-1.816	-1.816	-1.816	-1.816	-1.816	-1.816	-1.816
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.51	8.85	9.19	9.53	9.87	10.21	10.56
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	Vento 0	N	-33.736	-33.783	-33.829	-33.876	-33.923	-33.969	-34.016
		Vy	-7.415	-7.252	-7.089	-6.927	-6.764	-6.601	-6.439
		Vz	-2.260	-2.255	-2.249	-2.243	-2.238	-2.232	-2.226
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	-0.26	0.17	0.59	1.01	1.43	1.85	2.27
		Mz	-0.93	0.44	1.79	3.11	4.40	5.66	6.88
	Vento 180	N	33.440	33.440	33.440	33.440	33.440	33.440	33.440

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	6.556	6.556	6.556	6.556	6.556	6.556	6.556
		Vz	1.616	1.616	1.616	1.616	1.616	1.616	1.616
		Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
		My	-0.41	-0.72	-1.02	-1.32	-1.63	-1.93	-2.23
		Mz	0.71	-0.52	-1.76	-2.99	-4.22	-5.46	-6.69
	Multidão (Passeio)	N	-83.381	-83.381	-83.381	-83.381	-83.381	-83.381	-83.381
		Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz	-1.247	-1.247	-1.247	-1.247	-1.247	-1.247	-1.247
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.97	6.21	6.44	6.68	6.91	7.15	7.38
		Mz	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.03
	Multidão - TB450	N	-272.235	-272.235	-272.235	-272.235	-272.235	-272.235	-272.235
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	-4.215	-4.215	-4.215	-4.215	-4.215	-4.215	-4.215
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	19.57	20.36	21.16	21.95	22.74	23.54	24.33
		Mz	-0.06	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01
	TB-450-A1	N	-31.500	-31.500	-31.500	-31.500	-31.500	-31.500	-31.500
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.24	-0.11	0.02	0.15	0.28	0.41	0.54
		Mz	-0.01	0.00	0.02	0.03	0.04	0.05	0.06
	TB-450-A2	N	-13.365	-13.365	-13.365	-13.365	-13.365	-13.365	-13.365
		Vy	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
		Vz	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.10	-0.05	0.01	0.07	0.12	0.18	0.24
		Mz	0.02	0.03	0.04	0.06	0.07	0.08	0.09
	TB-450-B1	N	-91.063	-91.063	-91.063	-91.063	-91.063	-91.063	-91.063
		Vy	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vz	-2.045	-2.045	-2.045	-2.045	-2.045	-2.045	-2.045
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.64	-0.26	0.13	0.51	0.90	1.28	1.67
		Mz	0.01	0.00	0.00	-0.01	-0.02	-0.03	-0.04

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	TB-450-B2	N	-38.102	-38.102	-38.102	-38.102	-38.102	-38.102	-38.102
		Vy	0.066	0.066	0.066	0.066	0.066	0.066	0.066
		Vz	-0.862	-0.862	-0.862	-0.862	-0.862	-0.862	-0.862
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.26	-0.10	0.06	0.23	0.39	0.55	0.71
		Mz	0.11	0.10	0.08	0.07	0.06	0.05	0.03
	TB-450-C1	N	-63.209	-63.209	-63.209	-63.209	-63.209	-63.209	-63.209
		Vy	-0.256	-0.256	-0.256	-0.256	-0.256	-0.256	-0.256
		Vz	-2.780	-2.780	-2.780	-2.780	-2.780	-2.780	-2.780
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.62	1.15	1.67	2.19	2.72	3.24	3.76
		Mz	-0.03	0.02	0.07	0.12	0.16	0.21	0.26
	TB-450-C2	N	-150.278	-150.278	-150.278	-150.278	-150.278	-150.278	-150.278
		Vy	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140
		Vz	-6.292	-6.292	-6.292	-6.292	-6.292	-6.292	-6.292
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	1.30	2.48	3.67	4.85	6.03	7.22	8.40
		Mz	-0.17	-0.14	-0.11	-0.09	-0.06	-0.04	-0.01
	TB-450-D1	N	-174.015	-174.015	-174.015	-174.015	-174.015	-174.015	-174.015
		Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094
		Vz	-1.409	-1.409	-1.409	-1.409	-1.409	-1.409	-1.409
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	28.26	28.52	28.79	29.05	29.32	29.58	29.85
		Mz	-0.13	-0.15	-0.17	-0.19	-0.20	-0.22	-0.24
	TB-450-D2	N	-73.127	-73.127	-73.127	-73.127	-73.127	-73.127	-73.127
		Vy	0.059	0.059	0.059	0.059	0.059	0.059	0.059
		Vz	-0.602	-0.602	-0.602	-0.602	-0.602	-0.602	-0.602
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.96	12.08	12.19	12.30	12.42	12.53	12.64
		Mz	0.07	0.06	0.05	0.04	0.03	0.02	0.01
	TB-450-E1	N	-60.134	-60.134	-60.134	-60.134	-60.134	-60.134	-60.134
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	2.414	2.414	2.414	2.414	2.414	2.414	2.414
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.85	7.40	6.94	6.49	6.03	5.58	5.13

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.06	-0.06	-0.07	-0.08	-0.08	-0.09	-0.10
	TB-450-E2	N	-29.163	-29.163	-29.163	-29.163	-29.163	-29.163	-29.163
		Vy	0.087	0.087	0.087	0.087	0.087	0.087	0.087
		Vz	1.085	1.085	1.085	1.085	1.085	1.085	1.085
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.51	3.31	3.11	2.90	2.70	2.49	2.29
		Mz	0.04	0.02	0.01	-0.01	-0.03	-0.04	-0.06

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N32/N229	Peso próprio	N	-230.330	-230.275	-230.220	-230.165	-230.111	-230.056	-230.001
		Vy	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
		Vz	-3.566	-3.118	-2.669	-2.220	-1.772	-1.323	-0.874
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.08	20.70	21.25	21.71	22.08	22.38	22.58
		Mz	0.30	0.34	0.38	0.42	0.45	0.49	0.53
	Guarda Corpo	N	-64.266	-64.266	-64.266	-64.266	-64.266	-64.266	-64.266
		Vy	0.014	0.014	0.014	0.014	0.014	0.014	0.014
		Vz	-0.974	-0.974	-0.974	-0.974	-0.974	-0.974	-0.974
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.71	5.89	6.08	6.26	6.44	6.63	6.81
		Mz	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03
	Laje	N	-477.259	-477.259	-477.259	-477.259	-477.259	-477.259	-477.259
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	-7.307	-7.307	-7.307	-7.307	-7.307	-7.307	-7.307
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	42.54	43.91	45.29	46.66	48.03	49.41	50.78
		Mz	-0.06	-0.06	-0.07	-0.07	-0.07	-0.07	-0.07
	Pavimentação	N	-261.111	-261.111	-261.111	-261.111	-261.111	-261.111	-261.111
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-4.020	-4.020	-4.020	-4.020	-4.020	-4.020	-4.020
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	23.26	24.01	24.77	25.53	26.28	27.04	27.79
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Recapeamento	N	-118.426	-118.426	-118.426	-118.426	-118.426	-118.426	-118.426
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-1.816	-1.816	-1.816	-1.816	-1.816	-1.816	-1.816
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.56	10.90	11.24	11.58	11.92	12.26	12.61
		Mz	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02
	Vento 0	N	-34.016	-34.062	-34.109	-34.155	-34.202	-34.248	-34.295
		Vy	-6.439	-6.276	-6.113	-5.951	-5.788	-5.625	-5.462
		Vz	-2.226	-2.221	-2.215	-2.209	-2.204	-2.198	-2.192
		Mt	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		My	2.27	2.69	3.11	3.52	3.94	4.35	4.77
		Mz	6.88	8.08	9.24	10.38	11.48	12.56	13.60
	Vento 180	N	33.440	33.440	33.440	33.440	33.440	33.440	33.440
		Vy	6.556	6.556	6.556	6.556	6.556	6.556	6.556
		Vz	1.616	1.616	1.616	1.616	1.616	1.616	1.616
		Mt	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
		My	-2.23	-2.54	-2.84	-3.15	-3.45	-3.75	-4.06
		Mz	-6.69	-7.92	-9.16	-10.39	-11.62	-12.86	-14.09
	Multidão (Passeio)	N	-83.381	-83.381	-83.381	-83.381	-83.381	-83.381	-83.381
		Vy	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vz	-1.247	-1.247	-1.247	-1.247	-1.247	-1.247	-1.247
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.38	7.62	7.85	8.09	8.32	8.55	8.79
		Mz	-0.03	-0.04	-0.04	-0.05	-0.06	-0.07	-0.07
	Multidão - TB450	N	-272.235	-272.235	-272.235	-272.235	-272.235	-272.235	-272.235
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	-4.215	-4.215	-4.215	-4.215	-4.215	-4.215	-4.215
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	24.33	25.12	25.91	26.71	27.50	28.29	29.09
		Mz	-0.01	0.00	0.01	0.02	0.03	0.03	0.04
	TB-450-A1	N	-31.500	-31.500	-31.500	-31.500	-31.500	-31.500	-31.500
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.54	0.68	0.81	0.94	1.07	1.20	1.33

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	0.06	0.07	0.08	0.10	0.11	0.12	0.13
	TB-450-A2	N	-13.365	-13.365	-13.365	-13.365	-13.365	-13.365	-13.365
		Vy	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
		Vz	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299	-0.299
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.24	0.29	0.35	0.40	0.46	0.52	0.57
		Mz	0.09	0.10	0.11	0.12	0.13	0.14	0.15
	TB-450-B1	N	-91.063	-91.063	-91.063	-91.063	-91.063	-91.063	-91.063
		Vy	0.045	0.045	0.045	0.045	0.045	0.045	0.045
		Vz	-2.045	-2.045	-2.045	-2.045	-2.045	-2.045	-2.045
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.67	2.05	2.44	2.82	3.20	3.59	3.97
		Mz	-0.04	-0.05	-0.05	-0.06	-0.07	-0.08	-0.09
	TB-450-B2	N	-38.102	-38.102	-38.102	-38.102	-38.102	-38.102	-38.102
		Vy	0.066	0.066	0.066	0.066	0.066	0.066	0.066
		Vz	-0.862	-0.862	-0.862	-0.862	-0.862	-0.862	-0.862
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.71	0.88	1.04	1.20	1.36	1.52	1.69
		Mz	0.03	0.02	0.01	0.00	-0.02	-0.03	-0.04
	TB-450-C1	N	-63.209	-63.209	-63.209	-63.209	-63.209	-63.209	-63.209
		Vy	-0.256	-0.256	-0.256	-0.256	-0.256	-0.256	-0.256
		Vz	-2.780	-2.780	-2.780	-2.780	-2.780	-2.780	-2.780
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	3.76	4.29	4.81	5.33	5.85	6.38	6.90
		Mz	0.26	0.31	0.36	0.41	0.45	0.50	0.55
	TB-450-C2	N	-150.278	-150.278	-150.278	-150.278	-150.278	-150.278	-150.278
		Vy	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140
		Vz	-6.292	-6.292	-6.292	-6.292	-6.292	-6.292	-6.292
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	8.40	9.59	10.77	11.95	13.14	14.32	15.50
		Mz	-0.01	0.02	0.04	0.07	0.10	0.12	0.15
	TB-450-D1	N	-174.015	-174.015	-174.015	-174.015	-174.015	-174.015	-174.015
		Vy	0.094	0.094	0.094	0.094	0.094	0.094	0.094
		Vz	-1.409	-1.409	-1.409	-1.409	-1.409	-1.409	-1.409
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	29.85	30.11	30.38	30.64	30.91	31.17	31.44
		Mz	-0.24	-0.26	-0.27	-0.29	-0.31	-0.33	-0.35
	TB-450-D2	N	-73.127	-73.127	-73.127	-73.127	-73.127	-73.127	-73.127
		Vy	0.059	0.059	0.059	0.059	0.059	0.059	0.059
		Vz	-0.602	-0.602	-0.602	-0.602	-0.602	-0.602	-0.602
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.64	12.76	12.87	12.98	13.10	13.21	13.32
		Mz	0.01	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06
	TB-450-E1	N	-60.134	-60.134	-60.134	-60.134	-60.134	-60.134	-60.134
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	2.414	2.414	2.414	2.414	2.414	2.414	2.414
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.13	4.67	4.22	3.76	3.31	2.86	2.40
		Mz	-0.10	-0.10	-0.11	-0.12	-0.12	-0.13	-0.14
	TB-450-E2	N	-29.163	-29.163	-29.163	-29.163	-29.163	-29.163	-29.163
		Vy	0.087	0.087	0.087	0.087	0.087	0.087	0.087
		Vz	1.085	1.085	1.085	1.085	1.085	1.085	1.085
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.29	2.09	1.88	1.68	1.47	1.27	1.07
		Mz	-0.06	-0.07	-0.09	-0.11	-0.12	-0.14	-0.16

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N229/N52	Peso próprio	N	-258.203	-258.167	-258.130
		Vy	-0.204	-0.204	-0.204
		Vz	-81.987	-81.688	-81.390
		Mt	0.08	0.08	0.08
		My	-2.28	7.95	18.15
		Mz	0.51	0.53	0.56
	Guarda Corpo	N	-71.423	-71.423	-71.423
		Vy	0.012	0.012	0.012
		Vz	-21.399	-21.399	-21.399
		Mt	0.03	0.03	0.03

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	0.17	2.84	5.52
		Mz	-0.04	-0.04	-0.04
	Laje	N	-530.324	-530.324	-530.324
		Vy	-0.017	-0.017	-0.017
		Vz	-158.748	-158.748	-158.748
		Mt	0.31	0.31	0.31
		My	1.54	21.38	41.23
		Mz	-0.16	-0.15	-0.15
	Pavimentação	N	-290.219	-290.219	-290.219
		Vy	-0.016	-0.016	-0.016
		Vz	-87.106	-87.106	-87.106
		Mt	0.18	0.18	0.18
		My	0.79	11.68	22.57
		Mz	-0.08	-0.07	-0.07
	Recapeamento	N	-131.598	-131.598	-131.598
		Vy	-0.006	-0.006	-0.006
		Vz	-39.408	-39.408	-39.408
		Mt	0.08	0.08	0.08
		My	0.38	5.31	10.24
		Mz	-0.04	-0.04	-0.03
	Vento 0	N	-40.924	-40.955	-40.986
		Vy	-3.349	-3.241	-3.133
		Vz	-19.749	-19.746	-19.742
		Mt	1.03	1.03	1.03
		My	-0.99	1.48	3.95
		Mz	13.49	13.90	14.30
	Vento 180	N	39.292	39.292	39.292
		Vy	7.141	7.141	7.141
		Vz	19.211	19.211	19.211
		Mt	-0.59	-0.59	-0.59
		My	0.74	-1.66	-4.06
		Mz	-13.91	-14.80	-15.69
	Multidão (Passeio)	N	-92.680	-92.680	-92.680
		Vy	0.038	0.038	0.038

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-27.785	-27.785	-27.785
		Mt	0.02	0.02	0.02
		My	0.16	3.63	7.10
		Mz	-0.08	-0.08	-0.09
	Multidão - TB450	N	-302.482	-302.482	-302.482
		Vy	-0.069	-0.069	-0.069
		Vz	-90.540	-90.540	-90.540
		Mt	0.22	0.22	0.22
		My	1.03	12.34	23.66
		Mz	-0.02	-0.01	0.00
	TB-450-A1	N	-39.487	-39.487	-39.487
		Vy	-0.064	-0.064	-0.064
		Vz	-24.306	-24.306	-24.306
		Mt	0.01	0.01	0.01
		My	-5.65	-2.62	0.42
		Mz	0.13	0.13	0.14
	TB-450-A2	N	-16.805	-16.805	-16.805
		Vy	-0.060	-0.060	-0.060
		Vz	-10.468	-10.468	-10.468
		Mt	0.01	0.01	0.01
		My	-2.43	-1.13	0.18
		Mz	0.15	0.16	0.17
	TB-450-B1	N	-114.043	-114.043	-114.043
		Vy	0.050	0.050	0.050
		Vz	-69.957	-69.957	-69.957
		Mt	0.01	0.01	0.01
		My	-16.13	-7.38	1.36
		Mz	-0.09	-0.10	-0.10
	TB-450-B2	N	-47.869	-47.869	-47.869
		Vy	0.064	0.064	0.064
		Vz	-29.730	-29.730	-29.730
		Mt	0.00	0.00	0.00
		My	-6.86	-3.14	0.57
		Mz	-0.04	-0.05	-0.06

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-C1	N	-77.509	-77.509	-77.509
		Vy	-0.305	-0.305	-0.305
		Vz	-45.041	-45.041	-45.041
		Mt	0.25	0.25	0.25
		My	-5.44	0.19	5.82
		Mz	0.48	0.52	0.56
	TB-450-C2	N	-184.035	-184.035	-184.035
		Vy	-0.171	-0.171	-0.171
		Vz	-106.016	-106.016	-106.016
		Mt	0.28	0.28	0.28
		My	-13.69	-0.44	12.81
		Mz	0.08	0.10	0.12
	TB-450-D1	N	-173.663	-173.663	-173.663
		Vy	0.096	0.096	0.096
		Vz	5.377	5.377	5.377
		Mt	0.00	0.00	0.00
		My	28.20	27.53	26.86
		Mz	-0.35	-0.36	-0.37
	TB-450-D2	N	-73.045	-73.045	-73.045
		Vy	0.044	0.044	0.044
		Vz	2.066	2.066	2.066
		Mt	0.01	0.01	0.01
		My	11.90	11.64	11.39
		Mz	-0.06	-0.07	-0.07
	TB-450-E1	N	-54.060	-54.060	-54.060
		Vy	0.055	0.055	0.055
		Vz	20.414	20.414	20.414
		Mt	0.00	0.00	0.00
		My	7.84	5.29	2.73
		Mz	-0.14	-0.14	-0.15
	TB-450-E2	N	-26.160	-26.160	-26.160
		Vy	0.101	0.101	0.101
		Vz	9.981	9.981	9.981
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	3.75	2.50	1.26
		Mz	-0.16	-0.17	-0.18

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N52/N230	Peso próprio	N	-252.169	-252.132	-252.096
		Vy	0.441	0.441	0.441
		Vz	-72.654	-72.356	-72.058
		Mt	0.13	0.13	0.13
		My	18.81	27.87	36.90
		Mz	0.57	0.52	0.46
	Guarda Corpo	N	-71.272	-71.272	-71.272
		Vy	0.116	0.116	0.116
		Vz	-21.402	-21.402	-21.402
		Mt	0.04	0.04	0.04
		My	5.53	8.20	10.88
		Mz	-0.04	-0.05	-0.07
	Laje	N	-529.362	-529.362	-529.362
		Vy	1.302	1.302	1.302
		Vz	-158.750	-158.750	-158.750
		Mt	0.41	0.41	0.41
		My	41.30	61.15	80.99
		Mz	-0.12	-0.28	-0.45
	Pavimentação	N	-289.702	-289.702	-289.702
		Vy	0.743	0.743	0.743
		Vz	-87.106	-87.106	-87.106
		Mt	0.23	0.23	0.23
		My	22.61	33.50	44.39
		Mz	-0.05	-0.15	-0.24
	Recapeamento	N	-131.362	-131.362	-131.362
		Vy	0.332	0.332	0.332
		Vz	-39.408	-39.408	-39.408

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.10	0.10	0.10
		My	10.25	15.18	20.11
		Mz	-0.03	-0.07	-0.11
	Vento 0	N	-45.930	-45.961	-45.992
		Vy	16.317	16.425	16.533
		Vz	-19.054	-19.051	-19.047
		Mt	2.52	2.52	2.52
		My	3.59	5.97	8.35
		Mz	14.77	12.72	10.66
	Vento 180	N	46.769	46.769	46.769
		Vy	-20.359	-20.359	-20.359
		Vz	18.239	18.239	18.239
		Mt	-2.69	-2.69	-2.69
		My	-3.52	-5.80	-8.08
		Mz	-16.36	-13.81	-11.27
	Multidão (Passeio)	N	-92.450	-92.450	-92.450
		Vy	0.058	0.058	0.058
		Vz	-27.793	-27.793	-27.793
		Mt	0.02	0.02	0.02
		My	7.12	10.59	14.07
		Mz	-0.09	-0.09	-0.10
	Multidão - TB450	N	-302.022	-302.022	-302.022
		Vy	0.987	0.987	0.987
		Vz	-90.530	-90.530	-90.530
		Mt	0.30	0.30	0.30
		My	23.70	35.01	46.33
		Mz	0.03	-0.10	-0.22
	TB-450-A1	N	-39.371	-39.371	-39.371
		Vy	0.245	0.245	0.245
		Vz	-24.298	-24.298	-24.298
		Mt	0.04	0.04	0.04
		My	0.43	3.47	6.51
		Mz	0.15	0.12	0.09
	TB-450-A2	N	-16.701	-16.701	-16.701

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.222	0.222	0.222
		Vz	-10.461	-10.461	-10.461
		Mt	0.03	0.03	0.03
		My	0.19	1.50	2.81
		Mz	0.17	0.14	0.12
	TB-450-B1	N	-113.707	-113.707	-113.707
		Vy	0.037	0.037	0.037
		Vz	-69.967	-69.967	-69.967
		Mt	0.01	0.01	0.01
		My	1.39	10.14	18.88
		Mz	-0.10	-0.11	-0.11
	TB-450-B2	N	-47.501	-47.501	-47.501
		Vy	-0.064	-0.064	-0.064
		Vz	-29.744	-29.744	-29.744
		Mt	-0.01	-0.01	-0.01
		My	0.60	4.32	8.04
		Mz	-0.06	-0.05	-0.04
	TB-450-C1	N	-77.674	-77.674	-77.674
		Vy	1.454	1.454	1.454
		Vz	-44.990	-44.990	-44.990
		Mt	0.38	0.38	0.38
		My	5.81	11.43	17.06
		Mz	0.60	0.42	0.24
	TB-450-C2	N	-184.197	-184.197	-184.197
		Vy	1.241	1.241	1.241
		Vz	-105.978	-105.978	-105.978
		Mt	0.38	0.38	0.38
		My	12.80	26.05	39.30
		Mz	0.15	0.00	-0.16
	TB-450-D1	N	-173.519	-173.519	-173.519
		Vy	-0.122	-0.122	-0.122
		Vz	5.359	5.359	5.359
		Mt	-0.02	-0.02	-0.02
		My	26.87	26.20	25.53

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-0.37	-0.36	-0.34
	TB-450-D2	N	-72.892	-72.892	-72.892
		Vy	-0.010	-0.010	-0.010
		Vz	2.055	2.055	2.055
		Mt	0.00	0.00	0.00
		My	11.40	11.14	10.88
		Mz	-0.08	-0.07	-0.07
	TB-450-E1	N	-53.970	-53.970	-53.970
		Vy	-0.135	-0.135	-0.135
		Vz	20.404	20.404	20.404
		Mt	-0.01	-0.01	-0.01
		My	2.74	0.19	-2.36
		Mz	-0.15	-0.14	-0.12
	TB-450-E2	N	-25.939	-25.939	-25.939
		Vy	-0.244	-0.244	-0.244
		Vz	9.966	9.966	9.966
		Mt	-0.03	-0.03	-0.03
		My	1.27	0.03	-1.22
		Mz	-0.19	-0.16	-0.13

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N230/N21	Peso próprio	N	-257.828	-257.774	-257.719	-257.664	-257.610	-257.555	-257.500
		Vy	0.095	0.095	0.095	0.095	0.095	0.095	0.095
		Vz	-0.730	-0.281	0.167	0.616	1.065	1.513	1.962
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	22.19	22.29	22.30	22.23	22.07	21.83	21.50
		Mz	0.46	0.44	0.43	0.41	0.39	0.37	0.36
	Guarda Corpo	N	-73.031	-73.031	-73.031	-73.031	-73.031	-73.031	-73.031
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	0.718	0.718	0.718	0.718	0.718	0.718	0.718
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.67	6.53	6.40	6.26	6.13	5.99	5.86

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.07	-0.07	-0.07	-0.07	-0.08	-0.08	-0.08
	Laje	N	-542.384	-542.384	-542.384	-542.384	-542.384	-542.384	-542.384
		Vy	0.161	0.161	0.161	0.161	0.161	0.161	0.161
		Vz	5.451	5.451	5.451	5.451	5.451	5.451	5.451
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	49.86	48.84	47.81	46.79	45.76	44.74	43.71
		Mz	-0.45	-0.48	-0.51	-0.54	-0.57	-0.60	-0.63
	Pavimentação	N	-296.846	-296.846	-296.846	-296.846	-296.846	-296.846	-296.846
		Vy	0.096	0.096	0.096	0.096	0.096	0.096	0.096
		Vz	2.967	2.967	2.967	2.967	2.967	2.967	2.967
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.31	26.75	26.20	25.64	25.08	24.52	23.96
		Mz	-0.24	-0.26	-0.28	-0.29	-0.31	-0.33	-0.35
	Recapeamento	N	-134.594	-134.594	-134.594	-134.594	-134.594	-134.594	-134.594
		Vy	0.042	0.042	0.042	0.042	0.042	0.042	0.042
		Vz	1.353	1.353	1.353	1.353	1.353	1.353	1.353
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.38	12.13	11.87	11.62	11.36	11.11	10.85
		Mz	-0.11	-0.12	-0.13	-0.13	-0.14	-0.15	-0.16
	Vento 0	N	-48.066	-48.113	-48.159	-48.206	-48.253	-48.299	-48.346
		Vy	12.759	12.922	13.085	13.247	13.410	13.573	13.735
		Vz	-3.304	-3.298	-3.292	-3.287	-3.281	-3.275	-3.269
		Mt	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56
		My	4.23	4.85	5.47	6.09	6.71	7.33	7.94
		Mz	10.62	8.21	5.76	3.28	0.78	-1.76	-4.33
	Vento 180	N	48.100	48.100	48.100	48.100	48.100	48.100	48.100
		Vy	-14.208	-14.208	-14.208	-14.208	-14.208	-14.208	-14.208
		Vz	2.733	2.733	2.733	2.733	2.733	2.733	2.733
		Mt	0.56	0.56	0.56	0.56	0.56	0.56	0.56
		My	-4.86	-5.38	-5.89	-6.40	-6.92	-7.43	-7.95
		Mz	-11.24	-8.56	-5.89	-3.22	-0.54	2.13	4.80
	Multidão (Passeio)	N	-94.739	-94.739	-94.739	-94.739	-94.739	-94.739	-94.739
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	0.908	0.908	0.908	0.908	0.908	0.908	0.908
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	8.58	8.41	8.24	8.07	7.90	7.73	7.56
		Mz	-0.10	-0.10	-0.10	-0.10	-0.10	-0.09	-0.09
	Multidão - TB450	N	-309.434	-309.434	-309.434	-309.434	-309.434	-309.434	-309.434
		Vy	0.144	0.144	0.144	0.144	0.144	0.144	0.144
		Vz	3.168	3.168	3.168	3.168	3.168	3.168	3.168
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	28.63	28.03	27.44	26.84	26.24	25.65	25.05
		Mz	-0.22	-0.25	-0.28	-0.30	-0.33	-0.36	-0.39
	TB-450-A1	N	-41.722	-41.722	-41.722	-41.722	-41.722	-41.722	-41.722
		Vy	0.166	0.166	0.166	0.166	0.166	0.166	0.166
		Vz	0.159	0.159	0.159	0.159	0.159	0.159	0.159
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.73	0.70	0.67	0.64	0.61	0.58	0.55
		Mz	0.09	0.06	0.02	-0.01	-0.04	-0.07	-0.10
	TB-450-A2	N	-17.713	-17.713	-17.713	-17.713	-17.713	-17.713	-17.713
		Vy	0.148	0.148	0.148	0.148	0.148	0.148	0.148
		Vz	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.32	0.31	0.30	0.29	0.28	0.27	0.26
		Mz	0.12	0.09	0.06	0.03	0.00	-0.02	-0.05
	TB-450-B1	N	-120.433	-120.433	-120.433	-120.433	-120.433	-120.433	-120.433
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	0.159	0.159	0.159	0.159	0.159	0.159	0.159
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.36	2.33	2.30	2.27	2.24	2.21	2.18
		Mz	-0.11	-0.12	-0.12	-0.12	-0.13	-0.13	-0.13
	TB-450-B2	N	-50.360	-50.360	-50.360	-50.360	-50.360	-50.360	-50.360
		Vy	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vz	0.076	0.076	0.076	0.076	0.076	0.076	0.076
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.01	1.00	0.99	0.97	0.96	0.94	0.93
		Mz	-0.04	-0.03	-0.02	-0.01	0.00	0.01	0.02
	TB-450-C1	N	-81.306	-81.306	-81.306	-81.306	-81.306	-81.306	-81.306
		Vy	0.393	0.393	0.393	0.393	0.393	0.393	0.393
		Vz	-1.107	-1.107	-1.107	-1.107	-1.107	-1.107	-1.107

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	8.39	8.60	8.81	9.02	9.22	9.43	9.64
		Mz	0.23	0.16	0.09	0.01	-0.06	-0.14	-0.21
	TB-450-C2	N	-192.835	-192.835	-192.835	-192.835	-192.835	-192.835	-192.835
		Vy	0.177	0.177	0.177	0.177	0.177	0.177	0.177
		Vz	-2.863	-2.863	-2.863	-2.863	-2.863	-2.863	-2.863
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.61	19.15	19.68	20.22	20.76	21.30	21.84
		Mz	-0.16	-0.19	-0.23	-0.26	-0.29	-0.33	-0.36
	TB-450-D1	N	-172.175	-172.175	-172.175	-172.175	-172.175	-172.175	-172.175
		Vy	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107
		Vz	7.083	7.083	7.083	7.083	7.083	7.083	7.083
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	29.11	27.78	26.45	25.12	23.78	22.45	21.12
		Mz	-0.34	-0.32	-0.30	-0.28	-0.26	-0.24	-0.22
	TB-450-D2	N	-72.341	-72.341	-72.341	-72.341	-72.341	-72.341	-72.341
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	2.999	2.999	2.999	2.999	2.999	2.999	2.999
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.36	11.79	11.23	10.66	10.10	9.54	8.97
		Mz	-0.07	-0.07	-0.07	-0.06	-0.06	-0.05	-0.05
	TB-450-E1	N	-51.974	-51.974	-51.974	-51.974	-51.974	-51.974	-51.974
		Vy	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
		Vz	1.180	1.180	1.180	1.180	1.180	1.180	1.180
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.64	2.42	2.19	1.97	1.75	1.53	1.31
		Mz	-0.12	-0.10	-0.08	-0.06	-0.05	-0.03	-0.01
	TB-450-E2	N	-24.962	-24.962	-24.962	-24.962	-24.962	-24.962	-24.962
		Vy	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171
		Vz	0.588	0.588	0.588	0.588	0.588	0.588	0.588
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	1.23	1.12	1.01	0.90	0.79	0.68	0.57
		Mz	-0.13	-0.10	-0.06	-0.03	0.00	0.03	0.07

Esforços em barras, por hipóteses/ações

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Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N21/N231	Peso próprio	N	-257.500	-257.445	-257.391	-257.336	-257.281	-257.226	-257.172
		Vy	0.095	0.095	0.095	0.095	0.095	0.095	0.095
		Vz	1.962	2.410	2.859	3.308	3.756	4.205	4.654
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	21.50	21.09	20.59	20.01	19.35	18.60	17.77
		Mz	0.36	0.34	0.32	0.30	0.28	0.27	0.25
	Guarda Corpo	N	-73.031	-73.031	-73.031	-73.031	-73.031	-73.031	-73.031
		Vy	0.009	0.009	0.009	0.009	0.009	0.009	0.009
		Vz	0.718	0.718	0.718	0.718	0.718	0.718	0.718
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.86	5.72	5.59	5.45	5.32	5.18	5.05
		Mz	-0.08	-0.08	-0.08	-0.08	-0.09	-0.09	-0.09
	Laje	N	-542.384	-542.384	-542.384	-542.384	-542.384	-542.384	-542.384
		Vy	0.161	0.161	0.161	0.161	0.161	0.161	0.161
		Vz	5.451	5.451	5.451	5.451	5.451	5.451	5.451
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	43.71	42.68	41.66	40.63	39.61	38.58	37.56
		Mz	-0.63	-0.66	-0.69	-0.72	-0.75	-0.78	-0.81
	Pavimentação	N	-296.846	-296.846	-296.846	-296.846	-296.846	-296.846	-296.846
		Vy	0.096	0.096	0.096	0.096	0.096	0.096	0.096
		Vz	2.967	2.967	2.967	2.967	2.967	2.967	2.967
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	23.96	23.41	22.85	22.29	21.73	21.17	20.61
		Mz	-0.35	-0.37	-0.38	-0.40	-0.42	-0.44	-0.46
	Recapeamento	N	-134.594	-134.594	-134.594	-134.594	-134.594	-134.594	-134.594
		Vy	0.042	0.042	0.042	0.042	0.042	0.042	0.042
		Vz	1.353	1.353	1.353	1.353	1.353	1.353	1.353
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.85	10.60	10.34	10.09	9.83	9.58	9.33
		Mz	-0.16	-0.17	-0.17	-0.18	-0.19	-0.20	-0.20
	Vento 0	N	-48.346	-48.392	-48.439	-48.485	-48.532	-48.578	-48.625
		Vy	13.735	13.898	14.061	14.223	14.386	14.549	14.711
		Vz	-3.269	-3.264	-3.258	-3.252	-3.247	-3.241	-3.235
		Mt	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56
		My	7.94	8.56	9.17	9.78	10.39	11.00	11.61
		Mz	-4.33	-6.93	-9.56	-12.22	-14.91	-17.63	-20.38

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Vento 180	N	48.100	48.100	48.100	48.100	48.100	48.100	48.100
		Vy	-14.208	-14.208	-14.208	-14.208	-14.208	-14.208	-14.208
		Vz	2.733	2.733	2.733	2.733	2.733	2.733	2.733
		Mt	0.56	0.56	0.56	0.56	0.56	0.56	0.56
		My	-7.95	-8.46	-8.97	-9.49	-10.00	-10.52	-11.03
		Mz	4.80	7.47	10.15	12.82	15.49	18.16	20.84
	Multidão (Passeio)	N	-94.739	-94.739	-94.739	-94.739	-94.739	-94.739	-94.739
		Vy	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
		Vz	0.908	0.908	0.908	0.908	0.908	0.908	0.908
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.56	7.39	7.22	7.05	6.88	6.70	6.53
		Mz	-0.09	-0.09	-0.09	-0.09	-0.09	-0.09	-0.08
	Multidão - TB450	N	-309.434	-309.434	-309.434	-309.434	-309.434	-309.434	-309.434
		Vy	0.144	0.144	0.144	0.144	0.144	0.144	0.144
		Vz	3.168	3.168	3.168	3.168	3.168	3.168	3.168
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	25.05	24.46	23.86	23.27	22.67	22.07	21.48
		Mz	-0.39	-0.41	-0.44	-0.47	-0.49	-0.52	-0.55
	TB-450-A1	N	-41.722	-41.722	-41.722	-41.722	-41.722	-41.722	-41.722
		Vy	0.166	0.166	0.166	0.166	0.166	0.166	0.166
		Vz	0.159	0.159	0.159	0.159	0.159	0.159	0.159
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.55	0.53	0.50	0.47	0.44	0.41	0.38
		Mz	-0.10	-0.13	-0.16	-0.19	-0.23	-0.26	-0.29
	TB-450-A2	N	-17.713	-17.713	-17.713	-17.713	-17.713	-17.713	-17.713
		Vy	0.148	0.148	0.148	0.148	0.148	0.148	0.148
		Vz	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.26	0.25	0.24	0.23	0.22	0.21	0.20
		Mz	-0.05	-0.08	-0.11	-0.13	-0.16	-0.19	-0.22
	TB-450-B1	N	-120.433	-120.433	-120.433	-120.433	-120.433	-120.433	-120.433
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	0.159	0.159	0.159	0.159	0.159	0.159	0.159
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.18	2.15	2.12	2.09	2.06	2.03	2.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.13	-0.14	-0.14	-0.14	-0.15	-0.15	-0.15
	TB-450-B2	N	-50.360	-50.360	-50.360	-50.360	-50.360	-50.360	-50.360
		Vy	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vz	0.076	0.076	0.076	0.076	0.076	0.076	0.076
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.93	0.91	0.90	0.89	0.87	0.86	0.84
		Mz	0.02	0.03	0.04	0.05	0.06	0.07	0.08
	TB-450-C1	N	-81.306	-81.306	-81.306	-81.306	-81.306	-81.306	-81.306
		Vy	0.393	0.393	0.393	0.393	0.393	0.393	0.393
		Vz	-1.107	-1.107	-1.107	-1.107	-1.107	-1.107	-1.107
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	9.64	9.85	10.06	10.27	10.47	10.68	10.89
		Mz	-0.21	-0.28	-0.36	-0.43	-0.50	-0.58	-0.65
	TB-450-C2	N	-192.835	-192.835	-192.835	-192.835	-192.835	-192.835	-192.835
		Vy	0.177	0.177	0.177	0.177	0.177	0.177	0.177
		Vz	-2.863	-2.863	-2.863	-2.863	-2.863	-2.863	-2.863
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.84	22.38	22.91	23.45	23.99	24.53	25.07
		Mz	-0.36	-0.39	-0.43	-0.46	-0.49	-0.53	-0.56
	TB-450-D1	N	-172.175	-172.175	-172.175	-172.175	-172.175	-172.175	-172.175
		Vy	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107
		Vz	7.083	7.083	7.083	7.083	7.083	7.083	7.083
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.12	19.79	18.45	17.12	15.79	14.46	13.12
		Mz	-0.22	-0.20	-0.18	-0.16	-0.14	-0.12	-0.10
	TB-450-D2	N	-72.341	-72.341	-72.341	-72.341	-72.341	-72.341	-72.341
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	2.999	2.999	2.999	2.999	2.999	2.999	2.999
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.97	8.41	7.84	7.28	6.72	6.15	5.59
		Mz	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03	-0.03
	TB-450-E1	N	-51.974	-51.974	-51.974	-51.974	-51.974	-51.974	-51.974
		Vy	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
		Vz	1.180	1.180	1.180	1.180	1.180	1.180	1.180
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	1.31	1.08	0.86	0.64	0.42	0.20	-0.02
		Mz	-0.01	0.01	0.03	0.05	0.07	0.09	0.11
	TB-450-E2	N	-24.962	-24.962	-24.962	-24.962	-24.962	-24.962	-24.962
		Vy	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171
		Vz	0.588	0.588	0.588	0.588	0.588	0.588	0.588
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	0.57	0.46	0.35	0.24	0.13	0.02	-0.10
		Mz	0.07	0.10	0.13	0.16	0.19	0.23	0.26

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N231/N50	Peso próprio	N	-263.590	-263.553	-263.517
		Vy	-0.462	-0.462	-0.462
		Vz	-9.043	-8.745	-8.447
		Mt	-1.38	-1.38	-1.38
		My	9.58	10.69	11.76
		Mz	0.57	0.63	0.69
	Guarda Corpo	N	-73.981	-73.981	-73.981
		Vy	-0.094	-0.094	-0.094
		Vz	-0.520	-0.520	-0.520
		Mt	-0.05	-0.05	-0.05
		My	3.17	3.24	3.30
		Mz	-0.08	-0.07	-0.06
	Laje	N	-548.965	-548.965	-548.965
		Vy	-0.943	-0.943	-0.943
		Vz	-2.213	-2.213	-2.213
		Mt	-0.56	-0.56	-0.56
		My	23.92	24.20	24.48
		Mz	-0.74	-0.62	-0.50
	Pavimentação	N	-300.459	-300.459	-300.459
		Vy	-0.531	-0.531	-0.531
		Vz	-1.247	-1.247	-1.247
		Mt	-0.33	-0.33	-0.33

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	13.13	13.29	13.45
		Mz	-0.41	-0.35	-0.28
	Recapeamento	N	-136.221	-136.221	-136.221
		Vy	-0.239	-0.239	-0.239
		Vz	-0.528	-0.528	-0.528
		Mt	-0.14	-0.14	-0.14
		My	5.95	6.01	6.08
		Mz	-0.19	-0.16	-0.13
	Vento 0	N	-48.776	-48.807	-48.838
		Vy	7.810	7.918	8.026
		Vz	-0.353	-0.349	-0.345
		Mt	-23.07	-23.07	-23.07
		My	10.91	10.95	10.99
		Mz	-14.82	-15.81	-16.80
	Vento 180	N	47.534	47.534	47.534
		Vy	-4.736	-4.736	-4.736
		Vz	0.135	0.135	0.135
		Mt	23.91	23.91	23.91
		My	-11.28	-11.30	-11.31
		Mz	15.24	15.83	16.42
	Multidão (Passeio)	N	-96.069	-96.069	-96.069
		Vy	-0.069	-0.069	-0.069
		Vz	-1.015	-1.015	-1.015
		Mt	-0.01	-0.01	-0.01
		My	4.03	4.16	4.29
		Mz	-0.08	-0.08	-0.07
	Multidão - TB450	N	-312.939	-312.939	-312.939
		Vy	-0.676	-0.676	-0.676
		Vz	-0.391	-0.391	-0.391
		Mt	-0.45	-0.45	-0.45
		My	13.86	13.91	13.96
		Mz	-0.49	-0.40	-0.32
	TB-450-A1	N	-48.840	-48.840	-48.840
		Vy	0.047	0.047	0.047

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-20.346	-20.346	-20.346
		Mt	-0.28	-0.28	-0.28
		My	-6.35	-3.81	-1.26
		Mz	-0.22	-0.23	-0.23
	TB-450-A2	N	-20.763	-20.763	-20.763
		Vy	0.040	0.040	0.040
		Vz	-8.730	-8.730	-8.730
		Mt	-0.26	-0.26	-0.26
		My	-2.68	-1.59	-0.49
		Mz	-0.16	-0.16	-0.17
	TB-450-B1	N	-140.574	-140.574	-140.574
		Vy	-0.005	-0.005	-0.005
		Vz	-57.903	-57.903	-57.903
		Mt	-0.02	-0.02	-0.02
		My	-16.97	-9.74	-2.50
		Mz	-0.15	-0.15	-0.15
	TB-450-B2	N	-58.911	-58.911	-58.911
		Vy	-0.035	-0.035	-0.035
		Vz	-24.574	-24.574	-24.574
		Mt	0.08	0.08	0.08
		My	-7.21	-4.14	-1.07
		Mz	0.06	0.07	0.07
	TB-450-C1	N	-84.978	-84.978	-84.978
		Vy	-0.682	-0.682	-0.682
		Vz	-9.352	-9.352	-9.352
		Mt	-0.84	-0.84	-0.84
		My	5.98	7.15	8.32
		Mz	-0.51	-0.42	-0.34
	TB-450-C2	N	-202.952	-202.952	-202.952
		Vy	-0.843	-0.843	-0.843
		Vz	-27.065	-27.065	-27.065
		Mt	-0.49	-0.49	-0.49
		My	12.51	15.89	19.28
		Mz	-0.50	-0.40	-0.29

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Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-D1	N	-150.847	-150.847	-150.847
		Vy	-0.081	-0.081	-0.081
		Vz	74.586	74.586	74.586
		Mt	0.07	0.07	0.07
		My	29.08	19.76	10.44
		Mz	-0.12	-0.11	-0.10
	TB-450-D2	N	-63.341	-63.341	-63.341
		Vy	-0.031	-0.031	-0.031
		Vz	31.499	31.499	31.499
		Mt	0.01	0.01	0.01
		My	12.31	8.38	4.44
		Mz	-0.03	-0.03	-0.02
	TB-450-E1	N	-44.300	-44.300	-44.300
		Vy	-0.043	-0.043	-0.043
		Vz	24.322	24.322	24.322
		Mt	0.15	0.15	0.15
		My	6.49	3.45	0.41
		Mz	0.07	0.08	0.08
	TB-450-E2	N	-21.227	-21.227	-21.227
		Vy	-0.059	-0.059	-0.059
		Vz	11.852	11.852	11.852
		Mt	0.29	0.29	0.29
		My	3.07	1.59	0.11
		Mz	0.19	0.20	0.20

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N56/N224	Peso próprio	N	-108.028	-107.973	-107.919
		Vy	0.160	0.160	0.160
		Vz	-252.923	-252.477	-252.030
		Mt	0.15	0.15	0.15
		My	-127.48	-95.89	-64.36

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.30	0.28	0.26
	Guarda Corpo	N	-28.669	-28.669	-28.669
		Vy	-0.006	-0.006	-0.006
		Vz	-71.405	-71.405	-71.405
		Mt	0.03	0.03	0.03
		My	-34.36	-25.43	-16.51
		Mz	-0.02	-0.02	-0.02
	Laje	N	-212.934	-212.934	-212.934
		Vy	-0.057	-0.057	-0.057
		Vz	-530.322	-530.322	-530.322
		Mt	0.24	0.24	0.24
		My	-255.18	-188.89	-122.60
		Mz	-0.18	-0.17	-0.16
	Pavimentação	N	-116.434	-116.434	-116.434
		Vy	-0.032	-0.032	-0.032
		Vz	-289.989	-289.989	-289.989
		Mt	0.13	0.13	0.13
		My	-139.54	-103.29	-67.04
		Mz	-0.10	-0.09	-0.09
	Recapeamento	N	-52.832	-52.832	-52.832
		Vy	-0.014	-0.014	-0.014
		Vz	-131.582	-131.582	-131.582
		Mt	0.06	0.06	0.06
		My	-63.31	-46.87	-30.42
		Mz	-0.04	-0.04	-0.04
	Vento 0	N	-15.725	-15.756	-15.786
		Vy	0.174	0.282	0.390
		Vz	-28.455	-28.451	-28.447
		Mt	-2.95	-2.95	-2.95
		My	-13.38	-9.83	-6.27
		Mz	7.69	7.66	7.62
	Vento 180	N	16.238	16.238	16.238
		Vy	-3.787	-3.787	-3.787
		Vz	28.116	28.116	28.116

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	2.84	2.84	2.84
		My	12.44	8.92	5.41
		Mz	-8.21	-7.74	-7.26
	Multidão (Passeio)	N	-37.195	-37.195	-37.195
		Vy	-0.006	-0.006	-0.006
		Vz	-92.642	-92.642	-92.642
		Mt	0.04	0.04	0.04
		My	-44.58	-33.00	-21.42
		Mz	-0.03	-0.02	-0.02
	Multidão - TB450	N	-121.454	-121.454	-121.454
		Vy	-0.039	-0.039	-0.039
		Vz	-302.479	-302.479	-302.479
		Mt	0.14	0.14	0.14
		My	-145.55	-107.74	-69.93
		Mz	-0.11	-0.11	-0.10
	TB-450-A1	N	-10.969	-10.969	-10.969
		Vy	0.001	0.001	0.001
		Vz	-27.293	-27.293	-27.293
		Mt	0.03	0.03	0.03
		My	-13.37	-9.96	-6.55
		Mz	-0.03	-0.03	-0.03
	TB-450-A2	N	-4.715	-4.715	-4.715
		Vy	-0.011	-0.011	-0.011
		Vz	-11.736	-11.736	-11.736
		Mt	0.02	0.02	0.02
		My	-5.76	-4.29	-2.82
		Mz	-0.03	-0.03	-0.03
	TB-450-B1	N	-31.552	-31.552	-31.552
		Vy	-0.060	-0.060	-0.060
		Vz	-78.819	-78.819	-78.819
		Mt	0.08	0.08	0.08
		My	-38.64	-28.78	-18.93
		Mz	-0.19	-0.18	-0.17
	TB-450-B2	N	-13.319	-13.319	-13.319

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.020	-0.020	-0.020
		Vz	-33.624	-33.624	-33.624
		Mt	-0.06	-0.06	-0.06
		My	-16.44	-12.24	-8.03
		Mz	-0.02	-0.01	-0.01
	TB-450-C1	N	-22.284	-22.284	-22.284
		Vy	-0.043	-0.043	-0.043
		Vz	-56.105	-56.105	-56.105
		Mt	-0.08	-0.08	-0.08
		My	-27.43	-20.41	-13.40
		Mz	-0.03	-0.02	-0.02
	TB-450-C2	N	-52.435	-52.435	-52.435
		Vy	-0.120	-0.120	-0.120
		Vz	-131.085	-131.085	-131.085
		Mt	0.08	0.08	0.08
		My	-64.23	-47.84	-31.45
		Mz	-0.31	-0.29	-0.28
	TB-450-D1	N	-73.100	-73.100	-73.100
		Vy	-0.085	-0.085	-0.085
		Vz	-182.887	-182.887	-182.887
		Mt	0.05	0.05	0.05
		My	-88.71	-65.85	-42.99
		Mz	-0.29	-0.28	-0.27
	TB-450-D2	N	-30.836	-30.836	-30.836
		Vy	-0.061	-0.061	-0.061
		Vz	-77.718	-77.718	-77.718
		Mt	-0.06	-0.06	-0.06
		My	-37.64	-27.93	-18.21
		Mz	-0.09	-0.08	-0.07
	TB-450-E1	N	-50.252	-50.252	-50.252
		Vy	0.072	0.072	0.072
		Vz	-124.806	-124.806	-124.806
		Mt	0.02	0.02	0.02
		My	-56.79	-41.19	-25.58

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.10	0.09	0.08
	TB-450-E2	N	-26.078	-26.078	-26.078
		Vy	0.138	0.138	0.138
		Vz	-64.335	-64.335	-64.335
		Mt	0.25	0.25	0.25
		My	-29.77	-21.73	-13.68
		Mz	0.37	0.35	0.33

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N224/N31	Peso próprio	N	-129.017	-128.935	-128.853	-128.771	-128.689	-128.607	-128.525
		Vy	0.140	0.140	0.140	0.140	0.140	0.140	0.140
		Vz	-45.484	-44.811	-44.139	-43.467	-42.795	-42.122	-41.450
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-109.08	-100.58	-92.22	-83.98	-75.86	-67.88	-60.02
		Mz	0.25	0.23	0.20	0.17	0.15	0.12	0.09
	Guarda Corpo	N	-35.194	-35.194	-35.194	-35.194	-35.194	-35.194	-35.194
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-11.257	-11.257	-11.257	-11.257	-11.257	-11.257	-11.257
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-30.04	-27.93	-25.81	-23.69	-21.57	-19.45	-17.34
		Mz	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01
	Laje	N	-261.386	-261.386	-261.386	-261.386	-261.386	-261.386	-261.386
		Vy	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vz	-83.613	-83.613	-83.613	-83.613	-83.613	-83.613	-83.613
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-223.12	-207.40	-191.67	-175.94	-160.21	-144.48	-128.75
		Mz	-0.19	-0.17	-0.16	-0.14	-0.13	-0.11	-0.09
	Pavimentação	N	-142.937	-142.937	-142.937	-142.937	-142.937	-142.937	-142.937
		Vy	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		Vz	-45.717	-45.717	-45.717	-45.717	-45.717	-45.717	-45.717
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-122.04	-113.44	-104.84	-96.24	-87.64	-79.04	-70.44
		Mz	-0.10	-0.10	-0.09	-0.08	-0.07	-0.06	-0.05

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Recapeamento	N	-64.855	-64.855	-64.855	-64.855	-64.855	-64.855	-64.855
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	-20.745	-20.745	-20.745	-20.745	-20.745	-20.745	-20.745
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-55.36	-51.46	-47.56	-43.66	-39.75	-35.85	-31.95
		Mz	-0.05	-0.04	-0.04	-0.04	-0.03	-0.03	-0.02
	Vento 0	N	-19.228	-19.274	-19.321	-19.367	-19.414	-19.460	-19.507
		Vy	3.427	3.590	3.752	3.915	4.078	4.240	4.403
		Vz	-4.722	-4.717	-4.711	-4.705	-4.700	-4.694	-4.688
		Mt	-0.46	-0.46	-0.46	-0.46	-0.46	-0.46	-0.46
		My	-12.83	-11.94	-11.05	-10.17	-9.28	-8.40	-7.52
		Mz	8.05	7.39	6.70	5.97	5.22	4.44	3.63
	Vento 180	N	19.029	19.029	19.029	19.029	19.029	19.029	19.029
		Vy	-4.074	-4.074	-4.074	-4.074	-4.074	-4.074	-4.074
		Vz	3.828	3.828	3.828	3.828	3.828	3.828	3.828
		Mt	0.12	0.12	0.12	0.12	0.12	0.12	0.12
		My	11.52	10.80	10.08	9.36	8.64	7.92	7.20
		Mz	-7.71	-6.94	-6.18	-5.41	-4.65	-3.88	-3.11
	Multidão (Passeio)	N	-45.660	-45.660	-45.660	-45.660	-45.660	-45.660	-45.660
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-14.605	-14.605	-14.605	-14.605	-14.605	-14.605	-14.605
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-38.98	-36.23	-33.48	-30.74	-27.99	-25.24	-22.49
		Mz	-0.03	-0.03	-0.02	-0.02	-0.02	-0.02	-0.02
	Multidão - TB450	N	-149.091	-149.091	-149.091	-149.091	-149.091	-149.091	-149.091
		Vy	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vz	-47.691	-47.691	-47.691	-47.691	-47.691	-47.691	-47.691
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-127.27	-118.30	-109.33	-100.36	-91.39	-82.41	-73.44
		Mz	-0.12	-0.11	-0.09	-0.08	-0.07	-0.06	-0.05
	TB-450-A1	N	-13.874	-13.874	-13.874	-13.874	-13.874	-13.874	-13.874
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-4.084	-4.084	-4.084	-4.084	-4.084	-4.084	-4.084
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-13.00	-12.23	-11.46	-10.69	-9.93	-9.16	-8.39

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
	TB-450-A2	N	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-1.757	-1.757	-1.757	-1.757	-1.757	-1.757	-1.757
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.60	-5.27	-4.94	-4.61	-4.28	-3.95	-3.61
		Mz	-0.04	-0.03	-0.03	-0.03	-0.03	-0.02	-0.02
	TB-450-B1	N	-39.941	-39.941	-39.941	-39.941	-39.941	-39.941	-39.941
		Vy	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067
		Vz	-11.803	-11.803	-11.803	-11.803	-11.803	-11.803	-11.803
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-37.56	-35.34	-33.12	-30.90	-28.68	-26.46	-24.24
		Mz	-0.18	-0.17	-0.16	-0.15	-0.13	-0.12	-0.11
	TB-450-B2	N	-16.895	-16.895	-16.895	-16.895	-16.895	-16.895	-16.895
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-5.022	-5.022	-5.022	-5.022	-5.022	-5.022	-5.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.98	-15.03	-14.09	-13.14	-12.20	-11.25	-10.31
		Mz	0.00	0.00	0.00	0.01	0.01	0.01	0.01
	TB-450-C1	N	-28.235	-28.235	-28.235	-28.235	-28.235	-28.235	-28.235
		Vy	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Vz	-8.417	-8.417	-8.417	-8.417	-8.417	-8.417	-8.417
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-26.61	-25.02	-23.44	-21.86	-20.27	-18.69	-17.11
		Mz	-0.01	0.00	0.01	0.01	0.02	0.03	0.03
	TB-450-C2	N	-66.356	-66.356	-66.356	-66.356	-66.356	-66.356	-66.356
		Vy	-0.128	-0.128	-0.128	-0.128	-0.128	-0.128	-0.128
		Vz	-19.702	-19.702	-19.702	-19.702	-19.702	-19.702	-19.702
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-62.34	-58.64	-54.93	-51.23	-47.52	-43.81	-40.11
		Mz	-0.29	-0.26	-0.24	-0.22	-0.19	-0.17	-0.14
	TB-450-D1	N	-91.656	-91.656	-91.656	-91.656	-91.656	-91.656	-91.656
		Vy	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090
		Vz	-30.617	-30.617	-30.617	-30.617	-30.617	-30.617	-30.617
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	-83.68	-77.92	-72.16	-66.40	-60.64	-54.88	-49.12
		Mz	-0.28	-0.26	-0.24	-0.23	-0.21	-0.19	-0.18
	TB-450-D2	N	-38.720	-38.720	-38.720	-38.720	-38.720	-38.720	-38.720
		Vy	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vz	-12.988	-12.988	-12.988	-12.988	-12.988	-12.988	-12.988
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-35.50	-33.06	-30.62	-28.17	-25.73	-23.29	-20.85
		Mz	-0.07	-0.06	-0.05	-0.04	-0.03	-0.01	0.00
	TB-450-E1	N	-57.843	-57.843	-57.843	-57.843	-57.843	-57.843	-57.843
		Vy	0.069	0.069	0.069	0.069	0.069	0.069	0.069
		Vz	-19.947	-19.947	-19.947	-19.947	-19.947	-19.947	-19.947
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-37.37	-33.62	-29.87	-26.12	-22.36	-18.61	-14.86
		Mz	0.08	0.06	0.05	0.04	0.03	0.01	0.00
	TB-450-E2	N	-29.682	-29.682	-29.682	-29.682	-29.682	-29.682	-29.682
		Vy	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Vz	-10.154	-10.154	-10.154	-10.154	-10.154	-10.154	-10.154
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-18.69	-16.78	-14.87	-12.96	-11.05	-9.14	-7.23
		Mz	0.31	0.29	0.27	0.25	0.23	0.21	0.19

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N31/N225	Peso próprio	N	-128.525	-128.443	-128.361	-128.279	-128.197	-128.115	-128.033
		Vy	0.140	0.140	0.140	0.140	0.140	0.140	0.140
		Vz	-41.450	-40.778	-40.106	-39.433	-38.761	-38.089	-37.417
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-60.02	-52.28	-44.67	-37.19	-29.84	-22.61	-15.51
		Mz	0.09	0.07	0.04	0.01	-0.01	-0.04	-0.06
	Guarda Corpo	N	-35.194	-35.194	-35.194	-35.194	-35.194	-35.194	-35.194
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-11.257	-11.257	-11.257	-11.257	-11.257	-11.257	-11.257
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.34	-15.22	-13.10	-10.98	-8.87	-6.75	-4.63

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00
	Laje	N	-261.386	-261.386	-261.386	-261.386	-261.386	-261.386	-261.386
		Vy	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vz	-83.613	-83.613	-83.613	-83.613	-83.613	-83.613	-83.613
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-128.75	-113.02	-97.29	-81.57	-65.84	-50.11	-34.38
		Mz	-0.09	-0.08	-0.06	-0.05	-0.03	-0.01	0.00
	Pavimentação	N	-142.937	-142.937	-142.937	-142.937	-142.937	-142.937	-142.937
		Vy	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		Vz	-45.717	-45.717	-45.717	-45.717	-45.717	-45.717	-45.717
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-70.44	-61.84	-53.24	-44.64	-36.04	-27.44	-18.84
		Mz	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
	Recapeamento	N	-64.855	-64.855	-64.855	-64.855	-64.855	-64.855	-64.855
		Vy	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Vz	-20.745	-20.745	-20.745	-20.745	-20.745	-20.745	-20.745
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-31.95	-28.05	-24.14	-20.24	-16.34	-12.44	-8.53
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	0.00	0.00
	Vento 0	N	-19.507	-19.553	-19.600	-19.646	-19.693	-19.740	-19.786
		Vy	4.403	4.566	4.728	4.891	5.054	5.216	5.379
		Vz	-4.688	-4.683	-4.677	-4.671	-4.666	-4.660	-4.654
		Mt	-0.46	-0.46	-0.46	-0.46	-0.46	-0.46	-0.46
		My	-7.52	-6.63	-5.75	-4.87	-4.00	-3.12	-2.24
		Mz	3.63	2.78	1.91	1.00	0.07	-0.90	-1.89
	Vento 180	N	19.029	19.029	19.029	19.029	19.029	19.029	19.029
		Vy	-4.074	-4.074	-4.074	-4.074	-4.074	-4.074	-4.074
		Vz	3.828	3.828	3.828	3.828	3.828	3.828	3.828
		Mt	0.12	0.12	0.12	0.12	0.12	0.12	0.12
		My	7.20	6.48	5.76	5.04	4.32	3.60	2.88
		Mz	-3.11	-2.35	-1.58	-0.81	-0.05	0.72	1.49
	Multidão (Passeio)	N	-45.660	-45.660	-45.660	-45.660	-45.660	-45.660	-45.660
		Vy	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
		Vz	-14.605	-14.605	-14.605	-14.605	-14.605	-14.605	-14.605
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	-22.49	-19.75	-17.00	-14.25	-11.50	-8.76	-6.01
		Mz	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00
	Multidão - TB450	N	-149.091	-149.091	-149.091	-149.091	-149.091	-149.091	-149.091
		Vy	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vz	-47.691	-47.691	-47.691	-47.691	-47.691	-47.691	-47.691
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-73.44	-64.47	-55.50	-46.53	-37.56	-28.59	-19.61
		Mz	-0.05	-0.04	-0.03	-0.02	-0.01	0.00	0.01
	TB-450-A1	N	-13.874	-13.874	-13.874	-13.874	-13.874	-13.874	-13.874
		Vy	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
		Vz	-4.084	-4.084	-4.084	-4.084	-4.084	-4.084	-4.084
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.39	-7.62	-6.85	-6.08	-5.32	-4.55	-3.78
		Mz	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
	TB-450-A2	N	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-1.757	-1.757	-1.757	-1.757	-1.757	-1.757	-1.757
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.61	-3.28	-2.95	-2.62	-2.29	-1.96	-1.63
		Mz	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01	-0.01
	TB-450-B1	N	-39.941	-39.941	-39.941	-39.941	-39.941	-39.941	-39.941
		Vy	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067	-0.067
		Vz	-11.803	-11.803	-11.803	-11.803	-11.803	-11.803	-11.803
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.24	-22.02	-19.80	-17.58	-15.36	-13.14	-10.92
		Mz	-0.11	-0.10	-0.08	-0.07	-0.06	-0.05	-0.03
	TB-450-B2	N	-16.895	-16.895	-16.895	-16.895	-16.895	-16.895	-16.895
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-5.022	-5.022	-5.022	-5.022	-5.022	-5.022	-5.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.31	-9.36	-8.42	-7.47	-6.53	-5.58	-4.64
		Mz	0.01	0.02	0.02	0.02	0.02	0.02	0.03
	TB-450-C1	N	-28.235	-28.235	-28.235	-28.235	-28.235	-28.235	-28.235
		Vy	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Vz	-8.417	-8.417	-8.417	-8.417	-8.417	-8.417	-8.417

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.11	-15.52	-13.94	-12.36	-10.77	-9.19	-7.61
		Mz	0.03	0.04	0.05	0.05	0.06	0.07	0.07
	TB-450-C2	N	-66.356	-66.356	-66.356	-66.356	-66.356	-66.356	-66.356
		Vy	-0.128	-0.128	-0.128	-0.128	-0.128	-0.128	-0.128
		Vz	-19.702	-19.702	-19.702	-19.702	-19.702	-19.702	-19.702
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-40.11	-36.40	-32.70	-28.99	-25.28	-21.58	-17.87
		Mz	-0.14	-0.12	-0.10	-0.07	-0.05	-0.02	0.00
	TB-450-D1	N	-91.656	-91.656	-91.656	-91.656	-91.656	-91.656	-91.656
		Vy	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090
		Vz	-30.617	-30.617	-30.617	-30.617	-30.617	-30.617	-30.617
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-49.12	-43.36	-37.60	-31.84	-26.08	-20.32	-14.56
		Mz	-0.18	-0.16	-0.14	-0.13	-0.11	-0.09	-0.07
	TB-450-D2	N	-38.720	-38.720	-38.720	-38.720	-38.720	-38.720	-38.720
		Vy	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vz	-12.988	-12.988	-12.988	-12.988	-12.988	-12.988	-12.988
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-20.85	-18.40	-15.96	-13.52	-11.07	-8.63	-6.19
		Mz	0.00	0.01	0.02	0.03	0.04	0.05	0.06
	TB-450-E1	N	-57.843	-57.843	-57.843	-57.843	-57.843	-57.843	-57.843
		Vy	0.069	0.069	0.069	0.069	0.069	0.069	0.069
		Vz	-19.947	-19.947	-19.947	-19.947	-19.947	-19.947	-19.947
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-14.86	-11.11	-7.35	-3.60	0.15	3.90	7.65
		Mz	0.00	-0.01	-0.03	-0.04	-0.05	-0.07	-0.08
	TB-450-E2	N	-29.682	-29.682	-29.682	-29.682	-29.682	-29.682	-29.682
		Vy	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Vz	-10.154	-10.154	-10.154	-10.154	-10.154	-10.154	-10.154
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-7.23	-5.32	-3.41	-1.50	0.41	2.32	4.23
		Mz	0.19	0.17	0.15	0.13	0.11	0.09	0.07

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N225/N33	Peso próprio	N	-169.973	-169.918	-169.864
		Vy	0.141	0.141	0.141
		Vz	-161.727	-161.280	-160.833
		Mt	0.02	0.02	0.02
		My	-51.86	-31.67	-11.54
		Mz	-0.07	-0.09	-0.10
	Guarda Corpo	N	-46.715	-46.715	-46.715
		Vy	-0.011	-0.011	-0.011
		Vz	-45.474	-45.474	-45.474
		Mt	0.00	0.00	0.00
		My	-14.82	-9.13	-3.45
		Mz	0.00	0.00	0.00
	Laje	N	-346.944	-346.944	-346.944
		Vy	-0.091	-0.091	-0.091
		Vz	-337.715	-337.715	-337.715
		Mt	0.01	0.01	0.01
		My	-110.02	-67.80	-25.59
		Mz	0.00	0.01	0.02
	Pavimentação	N	-189.755	-189.755	-189.755
		Vy	-0.051	-0.051	-0.051
		Vz	-184.772	-184.772	-184.772
		Mt	0.01	0.01	0.01
		My	-60.23	-37.13	-14.03
		Mz	0.00	0.01	0.01
	Recapeamento	N	-86.085	-86.085	-86.085
		Vy	-0.023	-0.023	-0.023
		Vz	-83.800	-83.800	-83.800
		Mt	0.00	0.00	0.00
		My	-27.30	-16.83	-6.35
		Mz	0.00	0.00	0.01
	Vento 0	N	-25.584	-25.615	-25.646
		Vy	8.177	8.285	8.393
		Vz	-19.562	-19.558	-19.554
		Mt	0.84	0.84	0.84
		My	-7.64	-5.19	-2.75

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-2.03	-3.06	-4.10
	Vento 180	N	24.101	24.101	24.101
		Vy	-4.269	-4.269	-4.269
		Vz	18.971	18.971	18.971
		Mt	-0.46	-0.46	-0.46
		My	7.32	4.95	2.58
		Mz	1.62	2.15	2.68
	Multidão (Passeio)	N	-60.607	-60.607	-60.607
		Vy	-0.011	-0.011	-0.011
		Vz	-58.998	-58.998	-58.998
		Mt	0.00	0.00	0.00
		My	-19.22	-11.85	-4.47
		Mz	0.00	0.00	0.00
	Multidão - TB450	N	-197.896	-197.896	-197.896
		Vy	-0.059	-0.059	-0.059
		Vz	-192.643	-192.643	-192.643
		Mt	0.00	0.00	0.00
		My	-62.76	-38.68	-14.60
		Mz	0.01	0.01	0.02
	TB-450-A1	N	-19.843	-19.843	-19.843
		Vy	-0.003	-0.003	-0.003
		Vz	-22.145	-22.145	-22.145
		Mt	0.00	0.00	0.00
		My	-8.82	-6.06	-3.29
		Mz	-0.03	-0.03	-0.03
	TB-450-A2	N	-8.536	-8.536	-8.536
		Vy	-0.014	-0.014	-0.014
		Vz	-9.536	-9.536	-9.536
		Mt	0.00	0.00	0.00
		My	-3.80	-2.61	-1.42
		Mz	-0.01	-0.01	0.00
	TB-450-B1	N	-57.191	-57.191	-57.191
		Vy	-0.071	-0.071	-0.071
		Vz	-63.994	-63.994	-63.994

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.00	0.00	0.00
		My	-25.49	-17.49	-9.49
		Mz	-0.03	-0.02	-0.01
	TB-450-B2	N	-24.231	-24.231	-24.231
		Vy	-0.010	-0.010	-0.010
		Vz	-27.212	-27.212	-27.212
		Mt	0.00	0.00	0.00
		My	-10.84	-7.44	-4.04
		Mz	0.03	0.03	0.03
	TB-450-C1	N	-40.417	-40.417	-40.417
		Vy	-0.033	-0.033	-0.033
		Vz	-45.265	-45.265	-45.265
		Mt	0.01	0.01	0.01
		My	-17.91	-12.25	-6.59
		Mz	0.07	0.08	0.08
	TB-450-C2	N	-94.919	-94.919	-94.919
		Vy	-0.134	-0.134	-0.134
		Vz	-106.119	-106.119	-106.119
		Mt	-0.01	-0.01	-0.01
		My	-42.00	-28.74	-15.47
		Mz	0.00	0.02	0.04
	TB-450-D1	N	-127.887	-127.887	-127.887
		Vy	-0.094	-0.094	-0.094
		Vz	-140.087	-140.087	-140.087
		Mt	0.00	0.00	0.00
		My	-45.08	-27.56	-10.05
		Mz	-0.07	-0.06	-0.05
	TB-450-D2	N	-54.094	-54.094	-54.094
		Vy	-0.052	-0.052	-0.052
		Vz	-59.434	-59.434	-59.434
		Mt	0.01	0.01	0.01
		My	-19.14	-11.71	-4.28
		Mz	0.05	0.06	0.07
	TB-450-E1	N	-63.297	-63.297	-63.297

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.069	0.069	0.069
		Vz	-32.816	-32.816	-32.816
		Mt	-0.01	-0.01	-0.01
		My	0.38	4.48	8.58
		Mz	-0.08	-0.08	-0.09
	TB-450-E2	N	-31.521	-31.521	-31.521
		Vy	0.105	0.105	0.105
		Vz	-13.618	-13.618	-13.618
		Mt	0.01	0.01	0.01
		My	1.11	2.81	4.51
		Mz	0.07	0.06	0.04

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N58/N185	Peso próprio	N	-172.096	-172.059	-172.023
		Vy	-0.344	-0.344	-0.344
		Vz	-151.537	-151.239	-150.940
		Mt	-0.01	-0.01	-0.01
		My	-11.49	7.43	26.31
		Mz	-0.54	-0.50	-0.46
	Guarda Corpo	N	-46.420	-46.420	-46.420
		Vy	0.032	0.032	0.032
		Vz	-45.305	-45.305	-45.305
		Mt	0.00	0.00	0.00
		My	-3.40	2.26	7.92
		Mz	0.06	0.06	0.05
	Laje	N	-344.650	-344.650	-344.650
		Vy	0.206	0.206	0.206
		Vz	-336.362	-336.362	-336.362
		Mt	0.00	0.00	0.00
		My	-25.24	16.80	58.85
		Mz	0.44	0.41	0.39

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	-188.986	-188.986	-188.986
		Vy	0.111	0.111	0.111
		Vz	-184.577	-184.577	-184.577
		Mt	0.00	0.00	0.00
		My	-13.93	9.15	32.22
		Mz	0.24	0.23	0.21
	Recapeamento	N	-85.514	-85.514	-85.514
		Vy	0.050	0.050	0.050
		Vz	-83.462	-83.462	-83.462
		Mt	0.00	0.00	0.00
		My	-6.27	4.17	14.60
		Mz	0.11	0.10	0.10
	Vento 0	N	17.666	17.666	17.666
		Vy	0.102	0.102	0.102
		Vz	21.484	21.484	21.484
		Mt	0.19	0.19	0.19
		My	2.83	0.15	-2.54
		Mz	-2.97	-2.98	-2.99
	Vento 180	N	-19.342	-19.311	-19.281
		Vy	3.914	3.806	3.698
		Vz	-20.617	-20.621	-20.625
		Mt	0.05	0.05	0.05
		My	-2.83	-0.25	2.33
		Mz	4.53	4.05	3.58
	Multidão (Passeio)	N	-60.249	-60.249	-60.249
		Vy	0.048	0.048	0.048
		Vz	-58.797	-58.797	-58.797
		Mt	0.00	0.00	0.00
		My	-4.42	2.93	10.28
		Mz	0.08	0.07	0.07
	Multidão - TB450	N	-196.527	-196.527	-196.527
		Vy	0.100	0.100	0.100
		Vz	-191.819	-191.819	-191.819
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-14.40	9.58	33.56
		Mz	0.25	0.23	0.22
	TB-450-A1	N	-7.816	-7.816	-7.816
		Vy	0.009	0.009	0.009
		Vz	-8.843	-8.843	-8.843
		Mt	0.01	0.01	0.01
		My	-1.31	-0.20	0.90
		Mz	-0.01	-0.01	-0.01
	TB-450-A2	N	-19.090	-19.090	-19.090
		Vy	0.019	0.019	0.019
		Vz	-21.458	-21.458	-21.458
		Mt	0.00	0.00	0.00
		My	-3.18	-0.49	2.19
		Mz	0.04	0.03	0.03
	TB-450-B1	N	-24.037	-24.037	-24.037
		Vy	0.023	0.023	0.023
		Vz	-27.252	-27.252	-27.252
		Mt	0.00	0.00	0.00
		My	-4.02	-0.61	2.79
		Mz	0.04	0.04	0.04
	TB-450-B2	N	-56.927	-56.927	-56.927
		Vy	0.062	0.062	0.062
		Vz	-63.956	-63.956	-63.956
		Mt	0.01	0.01	0.01
		My	-9.46	-1.47	6.53
		Mz	0.14	0.14	0.13
	TB-450-C1	N	-94.018	-94.018	-94.018
		Vy	0.000	0.000	0.000
		Vz	-105.574	-105.574	-105.574
		Mt	0.00	0.00	0.00
		My	-15.39	-2.19	11.00
		Mz	0.17	0.17	0.17
	TB-450-C2	N	-39.539	-39.539	-39.539
		Vy	-0.050	-0.050	-0.050

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-44.840	-44.840	-44.840
		Mt	-0.02	-0.02	-0.02
		My	-6.52	-0.92	4.69
		Mz	0.04	0.05	0.06
	TB-450-D1	N	-53.773	-53.773	-53.773
		Vy	0.034	0.034	0.034
		Vz	-59.503	-59.503	-59.503
		Mt	-0.02	-0.02	-0.02
		My	-4.26	3.17	10.61
		Mz	0.02	0.02	0.01
	TB-450-D2	N	-127.476	-127.476	-127.476
		Vy	0.122	0.122	0.122
		Vz	-140.075	-140.075	-140.075
		Mt	0.00	0.00	0.00
		My	-10.02	7.49	25.00
		Mz	0.20	0.18	0.17
	TB-450-E1	N	-26.827	-26.827	-26.827
		Vy	0.022	0.022	0.022
		Vz	-14.003	-14.003	-14.003
		Mt	0.00	0.00	0.00
		My	3.62	5.37	7.12
		Mz	-0.01	-0.01	-0.02
	TB-450-E2	N	-75.259	-75.259	-75.259
		Vy	0.037	0.037	0.037
		Vz	-31.976	-31.976	-31.976
		Mt	0.02	0.02	0.02
		My	10.80	14.80	18.79
		Mz	0.02	0.01	0.01

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N185/N18	Peso próprio	N	-184.708	-184.653	-184.599	-184.544	-184.489	-184.434	-184.380
		Vy	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-12.094	-11.645	-11.196	-10.748	-10.299	-9.850	-9.402
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.25	-3.02	-0.87	1.19	3.17	5.07	6.88
		Mz	-0.46	-0.39	-0.33	-0.26	-0.20	-0.13	-0.07
	Guarda Corpo	N	-50.264	-50.264	-50.264	-50.264	-50.264	-50.264	-50.264
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-2.783	-2.783	-2.783	-2.783	-2.783	-2.783	-2.783
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.33	-0.81	-0.28	0.24	0.76	1.29	1.81
		Mz	0.05	0.05	0.04	0.03	0.03	0.02	0.01
	Laje	N	-373.185	-373.185	-373.185	-373.185	-373.185	-373.185	-373.185
		Vy	0.230	0.230	0.230	0.230	0.230	0.230	0.230
		Vz	-20.656	-20.656	-20.656	-20.656	-20.656	-20.656	-20.656
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.86	-5.97	-2.09	1.80	5.69	9.57	13.46
		Mz	0.39	0.35	0.30	0.26	0.22	0.17	0.13
	Pavimentação	N	-204.651	-204.651	-204.651	-204.651	-204.651	-204.651	-204.651
		Vy	0.125	0.125	0.125	0.125	0.125	0.125	0.125
		Vz	-11.336	-11.336	-11.336	-11.336	-11.336	-11.336	-11.336
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.50	-3.37	-1.24	0.90	3.03	5.16	7.29
		Mz	0.21	0.19	0.17	0.14	0.12	0.10	0.07
	Recapeamento	N	-92.595	-92.595	-92.595	-92.595	-92.595	-92.595	-92.595
		Vy	0.057	0.057	0.057	0.057	0.057	0.057	0.057
		Vz	-5.125	-5.125	-5.125	-5.125	-5.125	-5.125	-5.125
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.45	-1.48	-0.52	0.44	1.41	2.37	3.34
		Mz	0.10	0.09	0.08	0.06	0.05	0.04	0.03
	Vento 0	N	19.596	19.596	19.596	19.596	19.596	19.596	19.596
		Vy	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550
		Vz	1.237	1.237	1.237	1.237	1.237	1.237	1.237
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	2.15	1.92	1.69	1.45	1.22	0.99	0.75
		Mz	-3.00	-2.89	-2.79	-2.69	-2.58	-2.48	-2.37
	Vento 180	N	-20.469	-20.423	-20.376	-20.330	-20.283	-20.237	-20.190

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	1.725	1.562	1.399	1.236	1.074	0.911	0.748
		Vz	-0.580	-0.586	-0.592	-0.597	-0.603	-0.609	-0.614
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-1.46	-1.35	-1.24	-1.13	-1.01	-0.90	-0.78
		Mz	3.60	3.29	3.01	2.76	2.54	2.36	2.20
	Multidão (Passeio)	N	-65.237	-65.237	-65.237	-65.237	-65.237	-65.237	-65.237
		Vy	0.048	0.048	0.048	0.048	0.048	0.048	0.048
		Vz	-3.613	-3.613	-3.613	-3.613	-3.613	-3.613	-3.613
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.73	-1.05	-0.37	0.31	0.99	1.67	2.35
		Mz	0.07	0.06	0.05	0.04	0.03	0.02	0.01
	Multidão - TB450	N	-212.800	-212.800	-212.800	-212.800	-212.800	-212.800	-212.800
		Vy	0.119	0.119	0.119	0.119	0.119	0.119	0.119
		Vz	-11.777	-11.777	-11.777	-11.777	-11.777	-11.777	-11.777
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.63	-3.41	-1.20	1.02	3.23	5.45	7.67
		Mz	0.22	0.20	0.18	0.15	0.13	0.11	0.09
	TB-450-A1	N	-8.628	-8.628	-8.628	-8.628	-8.628	-8.628	-8.628
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.07	-0.97	-0.88	-0.78	-0.68	-0.58	-0.48
		Mz	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02
	TB-450-A2	N	-21.059	-21.059	-21.059	-21.059	-21.059	-21.059	-21.059
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.60	-2.36	-2.12	-1.88	-1.64	-1.41	-1.17
		Mz	0.03	0.03	0.02	0.02	0.02	0.01	0.01
	TB-450-B1	N	-26.538	-26.538	-26.538	-26.538	-26.538	-26.538	-26.538
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-1.613	-1.613	-1.613	-1.613	-1.613	-1.613	-1.613
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.29	-2.99	-2.68	-2.38	-2.08	-1.77	-1.47
		Mz	0.04	0.03	0.03	0.02	0.01	0.01	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	TB-450-B2	N	-62.798	-62.798	-62.798	-62.798	-62.798	-62.798	-62.798
		Vy	0.048	0.048	0.048	0.048	0.048	0.048	0.048
		Vz	-3.797	-3.797	-3.797	-3.797	-3.797	-3.797	-3.797
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-7.75	-7.04	-6.32	-5.61	-4.89	-4.18	-3.47
		Mz	0.13	0.12	0.11	0.10	0.09	0.08	0.07
	TB-450-C1	N	-103.656	-103.656	-103.656	-103.656	-103.656	-103.656	-103.656
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-6.654	-6.654	-6.654	-6.654	-6.654	-6.654	-6.654
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.45	-11.20	-9.95	-8.69	-7.44	-6.19	-4.94
		Mz	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	TB-450-C2	N	-43.633	-43.633	-43.633	-43.633	-43.633	-43.633	-43.633
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-2.808	-2.808	-2.808	-2.808	-2.808	-2.808	-2.808
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.27	-4.75	-4.22	-3.69	-3.16	-2.63	-2.11
		Mz	0.06	0.06	0.06	0.06	0.07	0.07	0.07
	TB-450-D1	N	-58.608	-58.608	-58.608	-58.608	-58.608	-58.608	-58.608
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-5.050	-5.050	-5.050	-5.050	-5.050	-5.050	-5.050
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.96	-0.01	0.94	1.89	2.84	3.79	4.74
		Mz	0.01	0.00	-0.01	-0.02	-0.04	-0.05	-0.06
	TB-450-D2	N	-138.854	-138.854	-138.854	-138.854	-138.854	-138.854	-138.854
		Vy	0.128	0.128	0.128	0.128	0.128	0.128	0.128
		Vz	-11.919	-11.919	-11.919	-11.919	-11.919	-11.919	-11.919
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.24	0.01	2.25	4.49	6.73	8.97	11.22
		Mz	0.17	0.15	0.12	0.10	0.07	0.05	0.02
	TB-450-E1	N	-27.699	-27.699	-27.699	-27.699	-27.699	-27.699	-27.699
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	0.263	0.263	0.263	0.263	0.263	0.263	0.263
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.16	5.11	5.06	5.01	4.96	4.91	4.86

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03
	TB-450-E2	N	-77.200	-77.200	-77.200	-77.200	-77.200	-77.200	-77.200
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	1.329	1.329	1.329	1.329	1.329	1.329	1.329
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.40	14.15	13.90	13.65	13.40	13.15	12.90
		Mz	0.01	0.00	0.00	0.00	0.00	-0.01	-0.01

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N18/N184	Peso próprio	N	-184.380	-184.325	-184.270	-184.215	-184.161	-184.106	-184.051
		Vy	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345
		Vz	-9.402	-8.953	-8.504	-8.056	-7.607	-7.158	-6.710
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.88	8.61	10.25	11.80	13.28	14.67	15.97
		Mz	-0.07	0.00	0.06	0.13	0.19	0.26	0.32
	Guarda Corpo	N	-50.264	-50.264	-50.264	-50.264	-50.264	-50.264	-50.264
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-2.783	-2.783	-2.783	-2.783	-2.783	-2.783	-2.783
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.81	2.33	2.86	3.38	3.91	4.43	4.95
		Mz	0.01	0.01	0.00	-0.01	-0.01	-0.02	-0.02
	Laje	N	-373.185	-373.185	-373.185	-373.185	-373.185	-373.185	-373.185
		Vy	0.230	0.230	0.230	0.230	0.230	0.230	0.230
		Vz	-20.656	-20.656	-20.656	-20.656	-20.656	-20.656	-20.656
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	13.46	17.34	21.23	25.11	29.00	32.89	36.77
		Mz	0.13	0.09	0.04	0.00	-0.04	-0.09	-0.13
	Pavimentação	N	-204.651	-204.651	-204.651	-204.651	-204.651	-204.651	-204.651
		Vy	0.125	0.125	0.125	0.125	0.125	0.125	0.125
		Vz	-11.336	-11.336	-11.336	-11.336	-11.336	-11.336	-11.336
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.29	9.43	11.56	13.69	15.82	17.96	20.09
		Mz	0.07	0.05	0.03	0.00	-0.02	-0.04	-0.07

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Recapeamento	N	-92.595	-92.595	-92.595	-92.595	-92.595	-92.595	-92.595
		Vy	0.057	0.057	0.057	0.057	0.057	0.057	0.057
		Vz	-5.125	-5.125	-5.125	-5.125	-5.125	-5.125	-5.125
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.34	4.30	5.26	6.23	7.19	8.16	9.12
		Mz	0.03	0.02	0.01	0.00	-0.01	-0.02	-0.03
	Vento 0	N	19.596	19.596	19.596	19.596	19.596	19.596	19.596
		Vy	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550
		Vz	1.237	1.237	1.237	1.237	1.237	1.237	1.237
		Mt	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		My	0.75	0.52	0.29	0.06	-0.18	-0.41	-0.64
		Mz	-2.37	-2.27	-2.17	-2.06	-1.96	-1.86	-1.75
	Vento 180	N	-20.190	-20.143	-20.097	-20.050	-20.004	-19.957	-19.911
		Vy	0.748	0.586	0.423	0.260	0.098	-0.065	-0.228
		Vz	-0.614	-0.620	-0.626	-0.632	-0.637	-0.643	-0.649
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.78	-0.67	-0.55	-0.43	-0.31	-0.19	-0.07
		Mz	2.20	2.07	1.98	1.92	1.88	1.88	1.91
	Multidão (Passeio)	N	-65.237	-65.237	-65.237	-65.237	-65.237	-65.237	-65.237
		Vy	0.048	0.048	0.048	0.048	0.048	0.048	0.048
		Vz	-3.613	-3.613	-3.613	-3.613	-3.613	-3.613	-3.613
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.35	3.03	3.71	4.39	5.07	5.75	6.43
		Mz	0.01	0.00	-0.01	-0.01	-0.02	-0.03	-0.04
	Multidão - TB450	N	-212.800	-212.800	-212.800	-212.800	-212.800	-212.800	-212.800
		Vy	0.119	0.119	0.119	0.119	0.119	0.119	0.119
		Vz	-11.777	-11.777	-11.777	-11.777	-11.777	-11.777	-11.777
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.67	9.88	12.10	14.31	16.53	18.74	20.96
		Mz	0.09	0.06	0.04	0.02	0.00	-0.03	-0.05
	TB-450-A1	N	-8.628	-8.628	-8.628	-8.628	-8.628	-8.628	-8.628
		Vy	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Vz	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.48	-0.38	-0.29	-0.19	-0.09	0.01	0.11

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03
	TB-450-A2	N	-21.059	-21.059	-21.059	-21.059	-21.059	-21.059	-21.059
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270	-1.270
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.17	-0.93	-0.69	-0.45	-0.21	0.03	0.27
		Mz	0.01	0.00	0.00	0.00	-0.01	-0.01	-0.02
	TB-450-B1	N	-26.538	-26.538	-26.538	-26.538	-26.538	-26.538	-26.538
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-1.613	-1.613	-1.613	-1.613	-1.613	-1.613	-1.613
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.47	-1.17	-0.86	-0.56	-0.26	0.05	0.35
		Mz	0.00	-0.01	-0.01	-0.02	-0.02	-0.03	-0.04
	TB-450-B2	N	-62.798	-62.798	-62.798	-62.798	-62.798	-62.798	-62.798
		Vy	0.048	0.048	0.048	0.048	0.048	0.048	0.048
		Vz	-3.797	-3.797	-3.797	-3.797	-3.797	-3.797	-3.797
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.47	-2.75	-2.04	-1.32	-0.61	0.11	0.82
		Mz	0.07	0.07	0.06	0.05	0.04	0.03	0.02
	TB-450-C1	N	-103.656	-103.656	-103.656	-103.656	-103.656	-103.656	-103.656
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-6.654	-6.654	-6.654	-6.654	-6.654	-6.654	-6.654
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.94	-3.69	-2.44	-1.18	0.07	1.32	2.57
		Mz	0.17	0.17	0.17	0.16	0.16	0.16	0.16
	TB-450-C2	N	-43.633	-43.633	-43.633	-43.633	-43.633	-43.633	-43.633
		Vy	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vz	-2.808	-2.808	-2.808	-2.808	-2.808	-2.808	-2.808
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-2.11	-1.58	-1.05	-0.52	0.01	0.54	1.06
		Mz	0.07	0.07	0.08	0.08	0.08	0.08	0.09
	TB-450-D1	N	-58.608	-58.608	-58.608	-58.608	-58.608	-58.608	-58.608
		Vy	0.065	0.065	0.065	0.065	0.065	0.065	0.065
		Vz	-5.050	-5.050	-5.050	-5.050	-5.050	-5.050	-5.050
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	4.74	5.69	6.64	7.59	8.54	9.49	10.44
		Mz	-0.06	-0.07	-0.09	-0.10	-0.11	-0.12	-0.14
	TB-450-D2	N	-138.854	-138.854	-138.854	-138.854	-138.854	-138.854	-138.854
		Vy	0.128	0.128	0.128	0.128	0.128	0.128	0.128
		Vz	-11.919	-11.919	-11.919	-11.919	-11.919	-11.919	-11.919
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.22	13.46	15.70	17.94	20.18	22.43	24.67
		Mz	0.02	0.00	-0.02	-0.05	-0.07	-0.10	-0.12
	TB-450-E1	N	-27.699	-27.699	-27.699	-27.699	-27.699	-27.699	-27.699
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	0.263	0.263	0.263	0.263	0.263	0.263	0.263
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.86	4.81	4.76	4.71	4.66	4.61	4.56
		Mz	-0.03	-0.04	-0.04	-0.04	-0.04	-0.05	-0.05
	TB-450-E2	N	-77.200	-77.200	-77.200	-77.200	-77.200	-77.200	-77.200
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	1.329	1.329	1.329	1.329	1.329	1.329	1.329
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.90	12.65	12.40	12.15	11.90	11.65	11.40
		Mz	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N184/N55	Peso próprio	N	-225.942	-225.906	-225.869
		Vy	-0.358	-0.358	-0.358
		Vz	-128.571	-128.272	-127.974
		Mt	-0.04	-0.04	-0.04
		My	-21.15	-5.10	10.92
		Mz	0.33	0.38	0.42
	Guarda Corpo	N	-61.522	-61.522	-61.522
		Vy	0.036	0.036	0.036
		Vz	-35.402	-35.402	-35.402
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-5.37	-0.94	3.48
		Mz	-0.02	-0.03	-0.03
	Laje	N	-456.763	-456.763	-456.763
		Vy	0.251	0.251	0.251
		Vz	-262.802	-262.802	-262.802
		Mt	-0.01	-0.01	-0.01
		My	-39.85	-7.00	25.85
		Mz	-0.13	-0.16	-0.19
	Pavimentação	N	-250.612	-250.612	-250.612
		Vy	0.137	0.137	0.137
		Vz	-144.518	-144.518	-144.518
		Mt	0.00	0.00	0.00
		My	-22.03	-3.97	14.10
		Mz	-0.07	-0.08	-0.10
	Recapeamento	N	-113.337	-113.337	-113.337
		Vy	0.062	0.062	0.062
		Vz	-65.220	-65.220	-65.220
		Mt	0.00	0.00	0.00
		My	-9.89	-1.74	6.41
		Mz	-0.03	-0.04	-0.05
	Vento 0	N	26.693	26.693	26.693
		Vy	-1.180	-1.180	-1.180
		Vz	22.263	22.263	22.263
		Mt	0.15	0.15	0.15
		My	5.59	2.80	0.02
		Mz	-1.84	-1.69	-1.54
	Vento 180	N	-26.235	-26.204	-26.173
		Vy	-2.289	-2.397	-2.505
		Vz	-21.726	-21.730	-21.734
		Mt	-0.49	-0.49	-0.49
		My	-5.34	-2.63	0.09
		Mz	1.89	2.18	2.49
	Multidão (Passeio)	N	-79.848	-79.848	-79.848
		Vy	0.049	0.049	0.049

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-45.944	-45.944	-45.944
		Mt	0.00	0.00	0.00
		My	-6.97	-1.22	4.52
		Mz	-0.04	-0.05	-0.05
	Multidão - TB450	N	-260.472	-260.472	-260.472
		Vy	0.136	0.136	0.136
		Vz	-149.896	-149.896	-149.896
		Mt	-0.01	-0.01	-0.01
		My	-22.75	-4.01	14.73
		Mz	-0.04	-0.06	-0.08
	TB-450-A1	N	-11.700	-11.700	-11.700
		Vy	0.010	0.010	0.010
		Vz	-9.608	-9.608	-9.608
		Mt	0.01	0.01	0.01
		My	-2.60	-1.40	-0.20
		Mz	-0.04	-0.04	-0.04
	TB-450-A2	N	-28.513	-28.513	-28.513
		Vy	0.022	0.022	0.022
		Vz	-23.317	-23.317	-23.317
		Mt	0.01	0.01	0.01
		My	-6.29	-3.38	-0.47
		Mz	-0.02	-0.02	-0.02
	TB-450-B1	N	-35.992	-35.992	-35.992
		Vy	0.044	0.044	0.044
		Vz	-29.577	-29.577	-29.577
		Mt	0.01	0.01	0.01
		My	-7.97	-4.28	-0.58
		Mz	-0.04	-0.04	-0.05
	TB-450-B2	N	-85.014	-85.014	-85.014
		Vy	0.036	0.036	0.036
		Vz	-69.514	-69.514	-69.514
		Mt	0.00	0.00	0.00
		My	-18.73	-10.04	-1.36
		Mz	0.02	0.02	0.01

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-C1	N	-139.826	-139.826	-139.826
		Vy	0.001	0.001	0.001
		Vz	-113.712	-113.712	-113.712
		Mt	-0.02	-0.02	-0.02
		My	-29.18	-14.96	-0.75
		Mz	0.17	0.17	0.17
	TB-450-C2	N	-58.995	-58.995	-58.995
		Vy	0.021	0.021	0.021
		Vz	-48.280	-48.280	-48.280
		Mt	-0.02	-0.02	-0.02
		My	-12.42	-6.39	-0.35
		Mz	0.09	0.09	0.09
	TB-450-D1	N	-70.881	-70.881	-70.881
		Vy	0.097	0.097	0.097
		Vz	-40.117	-40.117	-40.117
		Mt	0.00	0.00	0.00
		My	-1.03	3.99	9.00
		Mz	-0.13	-0.15	-0.16
	TB-450-D2	N	-167.673	-167.673	-167.673
		Vy	0.134	0.134	0.134
		Vz	-94.237	-94.237	-94.237
		Mt	0.01	0.01	0.01
		My	-2.25	9.53	21.31
		Mz	-0.12	-0.14	-0.16
	TB-450-E1	N	-26.252	-26.252	-26.252
		Vy	0.011	0.011	0.011
		Vz	5.657	5.657	5.657
		Mt	-0.01	-0.01	-0.01
		My	5.06	4.35	3.64
		Mz	-0.05	-0.05	-0.05
	TB-450-E2	N	-72.738	-72.738	-72.738
		Vy	-0.010	-0.010	-0.010
		Vz	17.152	17.152	17.152
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	13.50	11.35	9.21
		Mz	-0.03	-0.03	-0.02

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N55/N183	Peso próprio	N	-221.594	-221.557	-221.521
		Vy	0.646	0.646	0.646
		Vz	-119.064	-118.766	-118.468
		Mt	0.04	0.04	0.04
		My	11.46	26.32	41.15
		Mz	0.45	0.37	0.28
	Guarda Corpo	N	-61.189	-61.189	-61.189
		Vy	0.029	0.029	0.029
		Vz	-35.395	-35.395	-35.395
		Mt	0.00	0.00	0.00
		My	3.51	7.93	12.36
		Mz	-0.03	-0.04	-0.04
	Laje	N	-454.312	-454.312	-454.312
		Vy	0.273	0.273	0.273
		Vz	-262.754	-262.754	-262.754
		Mt	0.00	0.00	0.00
		My	26.03	58.88	91.72
		Mz	-0.19	-0.22	-0.26
	Pavimentação	N	-249.269	-249.269	-249.269
		Vy	0.153	0.153	0.153
		Vz	-144.491	-144.491	-144.491
		Mt	0.00	0.00	0.00
		My	14.20	32.26	50.32
		Mz	-0.10	-0.12	-0.14
	Recapeamento	N	-112.729	-112.729	-112.729
		Vy	0.069	0.069	0.069
		Vz	-65.208	-65.208	-65.208

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.00	0.00	0.00
		My	6.46	14.61	22.76
		Mz	-0.05	-0.05	-0.06
	Vento 0	N	32.352	32.352	32.352
		Vy	-5.650	-5.650	-5.650
		Vz	22.099	22.099	22.099
		Mt	-0.19	-0.19	-0.19
		My	0.45	-2.31	-5.08
		Mz	-1.65	-0.94	-0.24
	Vento 180	N	-33.892	-33.861	-33.830
		Vy	9.366	9.258	9.150
		Vz	-21.309	-21.313	-21.316
		Mt	0.42	0.42	0.42
		My	-0.49	2.17	4.84
		Mz	2.77	1.61	0.46
	Multidão (Passeio)	N	-79.409	-79.409	-79.409
		Vy	0.025	0.025	0.025
		Vz	-45.936	-45.936	-45.936
		Mt	0.00	0.00	0.00
		My	4.55	10.30	16.04
		Mz	-0.05	-0.06	-0.06
	Multidão - TB450	N	-259.088	-259.088	-259.088
		Vy	0.188	0.188	0.188
		Vz	-149.867	-149.867	-149.867
		Mt	0.00	0.00	0.00
		My	14.83	33.57	52.30
		Mz	-0.08	-0.10	-0.12
	TB-450-A1	N	-11.458	-11.458	-11.458
		Vy	-0.062	-0.062	-0.062
		Vz	-9.607	-9.607	-9.607
		Mt	0.00	0.00	0.00
		My	-0.18	1.02	2.22
		Mz	-0.04	-0.03	-0.02
	TB-450-A2	N	-28.253	-28.253	-28.253

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.067	-0.067	-0.067
		Vz	-23.317	-23.317	-23.317
		Mt	0.00	0.00	0.00
		My	-0.45	2.47	5.38
		Mz	-0.02	-0.02	-0.01
	TB-450-B1	N	-35.412	-35.412	-35.412
		Vy	0.013	0.013	0.013
		Vz	-29.569	-29.569	-29.569
		Mt	0.00	0.00	0.00
		My	-0.53	3.16	6.86
		Mz	-0.05	-0.05	-0.05
	TB-450-B2	N	-84.470	-84.470	-84.470
		Vy	0.025	0.025	0.025
		Vz	-69.505	-69.505	-69.505
		Mt	0.00	0.00	0.00
		My	-1.31	7.37	16.06
		Mz	0.01	0.01	0.00
	TB-450-C1	N	-139.215	-139.215	-139.215
		Vy	0.182	0.182	0.182
		Vz	-113.696	-113.696	-113.696
		Mt	-0.01	-0.01	-0.01
		My	-0.70	13.51	27.72
		Mz	0.17	0.15	0.13
	TB-450-C2	N	-58.357	-58.357	-58.357
		Vy	0.246	0.246	0.246
		Vz	-48.261	-48.261	-48.261
		Mt	0.00	0.00	0.00
		My	-0.30	5.73	11.76
		Mz	0.09	0.06	0.03
	TB-450-D1	N	-70.326	-70.326	-70.326
		Vy	0.001	0.001	0.001
		Vz	-40.110	-40.110	-40.110
		Mt	0.00	0.00	0.00
		My	9.05	14.06	19.07

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-0.16	-0.16	-0.16
	TB-450-D2	N	-167.205	-167.205	-167.205
		Vy	0.016	0.016	0.016
		Vz	-94.232	-94.232	-94.232
		Mt	0.00	0.00	0.00
		My	21.34	33.12	44.90
		Mz	-0.16	-0.16	-0.16
	TB-450-E1	N	-26.206	-26.206	-26.206
		Vy	0.030	0.030	0.030
		Vz	5.661	5.661	5.661
		Mt	0.00	0.00	0.00
		My	3.65	2.94	2.23
		Mz	-0.05	-0.05	-0.06
	TB-450-E2	N	-72.841	-72.841	-72.841
		Vy	0.067	0.067	0.067
		Vz	17.158	17.158	17.158
		Mt	0.00	0.00	0.00
		My	9.20	7.06	4.91
		Mz	-0.02	-0.03	-0.04

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N183/N27	Peso próprio	N	-231.917	-231.863	-231.808	-231.753	-231.698	-231.644	-231.589
		Vy	0.644	0.644	0.644	0.644	0.644	0.644	0.644
		Vz	-6.253	-5.805	-5.356	-4.907	-4.459	-4.010	-3.561
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	14.42	15.55	16.60	17.57	18.45	19.24	19.96
		Mz	0.28	0.16	0.04	-0.08	-0.20	-0.32	-0.44
	Guarda Corpo	N	-64.330	-64.330	-64.330	-64.330	-64.330	-64.330	-64.330
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.59	4.77	4.95	5.13	5.31	5.49	5.67

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.04	-0.05	-0.05	-0.06	-0.07	-0.07	-0.08
	Laje	N	-477.628	-477.628	-477.628	-477.628	-477.628	-477.628	-477.628
		Vy	0.319	0.319	0.319	0.319	0.319	0.319	0.319
		Vz	-7.130	-7.130	-7.130	-7.130	-7.130	-7.130	-7.130
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	34.08	35.42	36.77	38.11	39.45	40.79	42.13
		Mz	-0.26	-0.32	-0.38	-0.44	-0.50	-0.56	-0.62
	Pavimentação	N	-262.097	-262.097	-262.097	-262.097	-262.097	-262.097	-262.097
		Vy	0.179	0.179	0.179	0.179	0.179	0.179	0.179
		Vz	-3.952	-3.952	-3.952	-3.952	-3.952	-3.952	-3.952
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.61	19.35	20.10	20.84	21.58	22.33	23.07
		Mz	-0.14	-0.17	-0.21	-0.24	-0.27	-0.31	-0.34
	Recapeamento	N	-118.515	-118.515	-118.515	-118.515	-118.515	-118.515	-118.515
		Vy	0.080	0.080	0.080	0.080	0.080	0.080	0.080
		Vz	-1.771	-1.771	-1.771	-1.771	-1.771	-1.771	-1.771
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.45	8.79	9.12	9.45	9.79	10.12	10.45
		Mz	-0.06	-0.08	-0.09	-0.11	-0.12	-0.14	-0.15
	Vento 0	N	34.507	34.507	34.507	34.507	34.507	34.507	34.507
		Vy	-6.054	-6.054	-6.054	-6.054	-6.054	-6.054	-6.054
		Vz	1.132	1.132	1.132	1.132	1.132	1.132	1.132
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	0.34	0.13	-0.08	-0.30	-0.51	-0.72	-0.93
		Mz	-0.23	0.91	2.05	3.18	4.32	5.46	6.60
	Vento 180	N	-35.249	-35.203	-35.156	-35.110	-35.063	-35.016	-34.970
		Vy	6.918	6.756	6.593	6.430	6.268	6.105	5.942
		Vz	-0.503	-0.509	-0.515	-0.520	-0.526	-0.532	-0.537
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	0.31	0.40	0.50	0.60	0.70	0.80	0.90
		Mz	0.47	-0.82	-2.08	-3.30	-4.49	-5.66	-6.79
	Multidão (Passeio)	N	-83.485	-83.485	-83.485	-83.485	-83.485	-83.485	-83.485
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	-1.236	-1.236	-1.236	-1.236	-1.236	-1.236	-1.236
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	5.96	6.20	6.43	6.66	6.89	7.12	7.36
		Mz	-0.06	-0.07	-0.07	-0.08	-0.08	-0.09	-0.09
	Multidão - TB450	N	-272.388	-272.388	-272.388	-272.388	-272.388	-272.388	-272.388
		Vy	0.223	0.223	0.223	0.223	0.223	0.223	0.223
		Vz	-4.086	-4.086	-4.086	-4.086	-4.086	-4.086	-4.086
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	19.42	20.19	20.96	21.73	22.49	23.26	24.03
		Mz	-0.13	-0.17	-0.21	-0.25	-0.29	-0.33	-0.38
	TB-450-A1	N	-12.389	-12.389	-12.389	-12.389	-12.389	-12.389	-12.389
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.04	0.01	0.06	0.11	0.16	0.21
		Mz	-0.02	-0.01	0.00	0.01	0.02	0.03	0.05
	TB-450-A2	N	-30.510	-30.510	-30.510	-30.510	-30.510	-30.510	-30.510
		Vy	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		Vz	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.23	-0.11	0.02	0.14	0.27	0.39	0.52
		Mz	-0.01	0.01	0.02	0.03	0.04	0.06	0.07
	TB-450-B1	N	-38.271	-38.271	-38.271	-38.271	-38.271	-38.271	-38.271
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	-0.865	-0.865	-0.865	-0.865	-0.865	-0.865	-0.865
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.26	-0.09	0.07	0.23	0.39	0.56	0.72
		Mz	-0.05	-0.06	-0.06	-0.06	-0.07	-0.07	-0.07
	TB-450-B2	N	-91.189	-91.189	-91.189	-91.189	-91.189	-91.189	-91.189
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.65	-0.27	0.12	0.50	0.89	1.27	1.66
		Mz	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.02
	TB-450-C1	N	-149.891	-149.891	-149.891	-149.891	-149.891	-149.891	-149.891
		Vy	0.217	0.217	0.217	0.217	0.217	0.217	0.217
		Vz	-6.130	-6.130	-6.130	-6.130	-6.130	-6.130	-6.130

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	1.09	2.24	3.39	4.55	5.70	6.85	8.01
		Mz	0.13	0.09	0.05	0.01	-0.04	-0.08	-0.12
	TB-450-C2	N	-62.896	-62.896	-62.896	-62.896	-62.896	-62.896	-62.896
		Vy	0.294	0.294	0.294	0.294	0.294	0.294	0.294
		Vz	-2.614	-2.614	-2.614	-2.614	-2.614	-2.614	-2.614
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.43	0.92	1.42	1.91	2.40	2.89	3.38
		Mz	0.03	-0.03	-0.08	-0.14	-0.19	-0.25	-0.30
	TB-450-D1	N	-73.309	-73.309	-73.309	-73.309	-73.309	-73.309	-73.309
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	11.97	12.08	12.19	12.31	12.42	12.54	12.65
		Mz	-0.16	-0.16	-0.17	-0.17	-0.17	-0.17	-0.18
	TB-450-D2	N	-174.195	-174.195	-174.195	-174.195	-174.195	-174.195	-174.195
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-1.413	-1.413	-1.413	-1.413	-1.413	-1.413	-1.413
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	28.25	28.52	28.79	29.05	29.32	29.58	29.85
		Mz	-0.16	-0.17	-0.17	-0.17	-0.18	-0.18	-0.18
	TB-450-E1	N	-25.724	-25.724	-25.724	-25.724	-25.724	-25.724	-25.724
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	1.008	1.008	1.008	1.008	1.008	1.008	1.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.32	3.13	2.94	2.75	2.56	2.37	2.18
		Mz	-0.06	-0.06	-0.07	-0.07	-0.08	-0.08	-0.09
	TB-450-E2	N	-71.356	-71.356	-71.356	-71.356	-71.356	-71.356	-71.356
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	2.542	2.542	2.542	2.542	2.542	2.542	2.542
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.33	7.86	7.38	6.90	6.42	5.94	5.47
		Mz	-0.04	-0.05	-0.06	-0.07	-0.09	-0.10	-0.11

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N27/N182	Peso próprio	N	-231.589	-231.534	-231.479	-231.425	-231.370	-231.315	-231.260
		Vy	0.644	0.644	0.644	0.644	0.644	0.644	0.644
		Vz	-3.561	-3.113	-2.664	-2.215	-1.767	-1.318	-0.869
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	19.96	20.58	21.13	21.59	21.96	22.25	22.46
		Mz	-0.44	-0.57	-0.69	-0.81	-0.93	-1.05	-1.17
	Guarda Corpo	N	-64.330	-64.330	-64.330	-64.330	-64.330	-64.330	-64.330
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.67	5.85	6.03	6.21	6.39	6.57	6.75
		Mz	-0.08	-0.08	-0.09	-0.10	-0.10	-0.11	-0.11
	Laje	N	-477.628	-477.628	-477.628	-477.628	-477.628	-477.628	-477.628
		Vy	0.319	0.319	0.319	0.319	0.319	0.319	0.319
		Vz	-7.130	-7.130	-7.130	-7.130	-7.130	-7.130	-7.130
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	42.13	43.47	44.81	46.15	47.50	48.84	50.18
		Mz	-0.62	-0.68	-0.74	-0.80	-0.86	-0.92	-0.98
	Pavimentação	N	-262.097	-262.097	-262.097	-262.097	-262.097	-262.097	-262.097
		Vy	0.179	0.179	0.179	0.179	0.179	0.179	0.179
		Vz	-3.952	-3.952	-3.952	-3.952	-3.952	-3.952	-3.952
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	23.07	23.81	24.56	25.30	26.04	26.79	27.53
		Mz	-0.34	-0.37	-0.41	-0.44	-0.48	-0.51	-0.54
	Recapeamento	N	-118.515	-118.515	-118.515	-118.515	-118.515	-118.515	-118.515
		Vy	0.080	0.080	0.080	0.080	0.080	0.080	0.080
		Vz	-1.771	-1.771	-1.771	-1.771	-1.771	-1.771	-1.771
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.45	10.79	11.12	11.45	11.79	12.12	12.45
		Mz	-0.15	-0.17	-0.18	-0.20	-0.22	-0.23	-0.25
	Vento 0	N	34.507	34.507	34.507	34.507	34.507	34.507	34.507
		Vy	-6.054	-6.054	-6.054	-6.054	-6.054	-6.054	-6.054
		Vz	1.132	1.132	1.132	1.132	1.132	1.132	1.132
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-0.93	-1.15	-1.36	-1.57	-1.79	-2.00	-2.21
		Mz	6.60	7.74	8.88	10.02	11.16	12.30	13.43

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Vento 180	N	-34.970	-34.923	-34.877	-34.830	-34.784	-34.737	-34.691
		Vy	5.942	5.780	5.617	5.454	5.292	5.129	4.966
		Vz	-0.537	-0.543	-0.549	-0.554	-0.560	-0.566	-0.571
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	0.90	1.00	1.10	1.20	1.31	1.41	1.52
		Mz	-6.79	-7.89	-8.97	-10.01	-11.02	-12.00	-12.95
	Multidão (Passeio)	N	-83.485	-83.485	-83.485	-83.485	-83.485	-83.485	-83.485
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	-1.236	-1.236	-1.236	-1.236	-1.236	-1.236	-1.236
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	7.36	7.59	7.82	8.05	8.29	8.52	8.75
		Mz	-0.09	-0.10	-0.10	-0.11	-0.11	-0.12	-0.12
	Multidão - TB450	N	-272.388	-272.388	-272.388	-272.388	-272.388	-272.388	-272.388
		Vy	0.223	0.223	0.223	0.223	0.223	0.223	0.223
		Vz	-4.086	-4.086	-4.086	-4.086	-4.086	-4.086	-4.086
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	24.03	24.80	25.57	26.34	27.11	27.87	28.64
		Mz	-0.38	-0.42	-0.46	-0.50	-0.54	-0.59	-0.63
	TB-450-A1	N	-12.389	-12.389	-12.389	-12.389	-12.389	-12.389	-12.389
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268	-0.268
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.21	0.26	0.31	0.36	0.41	0.46	0.51
		Mz	0.05	0.06	0.07	0.08	0.09	0.11	0.12
	TB-450-A2	N	-30.510	-30.510	-30.510	-30.510	-30.510	-30.510	-30.510
		Vy	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		Vz	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665	-0.665
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.52	0.64	0.77	0.89	1.02	1.15	1.27
		Mz	0.07	0.08	0.09	0.11	0.12	0.13	0.15
	TB-450-B1	N	-38.271	-38.271	-38.271	-38.271	-38.271	-38.271	-38.271
		Vy	0.019	0.019	0.019	0.019	0.019	0.019	0.019
		Vz	-0.865	-0.865	-0.865	-0.865	-0.865	-0.865	-0.865
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.72	0.88	1.04	1.21	1.37	1.53	1.70

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.07	-0.08	-0.08	-0.08	-0.09	-0.09	-0.09
	TB-450-B2	N	-91.189	-91.189	-91.189	-91.189	-91.189	-91.189	-91.189
		Vy	0.018	0.018	0.018	0.018	0.018	0.018	0.018
		Vz	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.66	2.04	2.43	2.81	3.19	3.58	3.96
		Mz	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.04
	TB-450-C1	N	-149.891	-149.891	-149.891	-149.891	-149.891	-149.891	-149.891
		Vy	0.217	0.217	0.217	0.217	0.217	0.217	0.217
		Vz	-6.130	-6.130	-6.130	-6.130	-6.130	-6.130	-6.130
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	8.01	9.16	10.31	11.47	12.62	13.77	14.93
		Mz	-0.12	-0.16	-0.20	-0.24	-0.28	-0.32	-0.36
	TB-450-C2	N	-62.896	-62.896	-62.896	-62.896	-62.896	-62.896	-62.896
		Vy	0.294	0.294	0.294	0.294	0.294	0.294	0.294
		Vz	-2.614	-2.614	-2.614	-2.614	-2.614	-2.614	-2.614
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	3.38	3.87	4.37	4.86	5.35	5.84	6.33
		Mz	-0.30	-0.36	-0.41	-0.47	-0.52	-0.58	-0.63
	TB-450-D1	N	-73.309	-73.309	-73.309	-73.309	-73.309	-73.309	-73.309
		Vy	0.013	0.013	0.013	0.013	0.013	0.013	0.013
		Vz	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606	-0.606
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.65	12.76	12.88	12.99	13.11	13.22	13.33
		Mz	-0.18	-0.18	-0.18	-0.18	-0.19	-0.19	-0.19
	TB-450-D2	N	-174.195	-174.195	-174.195	-174.195	-174.195	-174.195	-174.195
		Vy	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Vz	-1.413	-1.413	-1.413	-1.413	-1.413	-1.413	-1.413
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	29.85	30.11	30.38	30.65	30.91	31.18	31.44
		Mz	-0.18	-0.19	-0.19	-0.19	-0.20	-0.20	-0.20
	TB-450-E1	N	-25.724	-25.724	-25.724	-25.724	-25.724	-25.724	-25.724
		Vy	0.026	0.026	0.026	0.026	0.026	0.026	0.026
		Vz	1.008	1.008	1.008	1.008	1.008	1.008	1.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	2.18	1.99	1.80	1.61	1.42	1.24	1.05
		Mz	-0.09	-0.09	-0.10	-0.10	-0.11	-0.11	-0.12
	TB-450-E2	N	-71.356	-71.356	-71.356	-71.356	-71.356	-71.356	-71.356
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	2.542	2.542	2.542	2.542	2.542	2.542	2.542
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.47	4.99	4.51	4.03	3.55	3.07	2.60
		Mz	-0.11	-0.12	-0.13	-0.14	-0.15	-0.17	-0.18

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N182/N53	Peso próprio	N	-259.425	-259.389	-259.353
		Vy	0.653	0.653	0.653
		Vz	-81.897	-81.599	-81.301
		Mt	-0.04	-0.04	-0.04
		My	-2.35	7.86	18.05
		Mz	-1.16	-1.24	-1.32
	Guarda Corpo	N	-71.461	-71.461	-71.461
		Vy	0.036	0.036	0.036
		Vz	-21.312	-21.312	-21.312
		Mt	-0.02	-0.02	-0.02
		My	0.13	2.80	5.46
		Mz	-0.11	-0.12	-0.12
	Laje	N	-530.591	-530.591	-530.591
		Vy	0.355	0.355	0.355
		Vz	-158.327	-158.327	-158.327
		Mt	-0.19	-0.19	-0.19
		My	1.05	20.84	40.63
		Mz	-0.93	-0.97	-1.02
	Pavimentação	N	-291.331	-291.331	-291.331
		Vy	0.200	0.200	0.200
		Vz	-87.445	-87.445	-87.445
		Mt	-0.11	-0.11	-0.11

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	0.43	11.36	22.29
		Mz	-0.51	-0.54	-0.56
	Recapeamento	N	-131.664	-131.664	-131.664
		Vy	0.090	0.090	0.090
		Vz	-39.307	-39.307	-39.307
		Mt	-0.05	-0.05	-0.05
		My	0.26	5.17	10.08
		Mz	-0.23	-0.24	-0.25
	Vento 0	N	42.373	42.373	42.373
		Vy	-6.621	-6.621	-6.621
		Vz	24.747	24.747	24.747
		Mt	0.23	0.23	0.23
		My	4.34	1.24	-1.85
		Mz	13.34	14.17	15.00
	Vento 180	N	-41.842	-41.811	-41.780
		Vy	2.835	2.727	2.619
		Vz	-24.440	-24.443	-24.447
		Mt	-0.66	-0.66	-0.66
		My	-4.10	-1.05	2.01
		Mz	-12.93	-13.28	-13.62
	Multidão (Passeio)	N	-92.732	-92.732	-92.732
		Vy	0.028	0.028	0.028
		Vz	-27.624	-27.624	-27.624
		Mt	-0.01	-0.01	-0.01
		My	0.17	3.62	7.07
		Mz	-0.12	-0.12	-0.13
	Multidão - TB450	N	-302.626	-302.626	-302.626
		Vy	0.251	0.251	0.251
		Vz	-90.425	-90.425	-90.425
		Mt	-0.14	-0.14	-0.14
		My	0.61	11.91	23.21
		Mz	-0.59	-0.62	-0.65
	TB-450-A1	N	-15.573	-15.573	-15.573
		Vy	-0.068	-0.068	-0.068

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-9.677	-9.677	-9.677
		Mt	0.01	0.01	0.01
		My	-2.27	-1.06	0.14
		Mz	0.12	0.12	0.13
	TB-450-A2	N	-38.243	-38.243	-38.243
		Vy	-0.071	-0.071	-0.071
		Vz	-23.517	-23.517	-23.517
		Mt	0.00	0.00	0.00
		My	-5.50	-2.56	0.38
		Mz	0.14	0.15	0.16
	TB-450-B1	N	-48.042	-48.042	-48.042
		Vy	0.023	0.023	0.023
		Vz	-29.741	-29.741	-29.741
		Mt	0.01	0.01	0.01
		My	-6.85	-3.13	0.59
		Mz	-0.10	-0.10	-0.10
	TB-450-B2	N	-114.171	-114.171	-114.171
		Vy	0.012	0.012	0.012
		Vz	-69.966	-69.966	-69.966
		Mt	0.00	0.00	0.00
		My	-16.14	-7.39	1.36
		Mz	-0.04	-0.04	-0.04
	TB-450-C1	N	-183.864	-183.864	-183.864
		Vy	0.241	0.241	0.241
		Vz	-106.551	-106.551	-106.551
		Mt	-0.21	-0.21	-0.21
		My	-14.44	-1.12	12.20
		Mz	-0.31	-0.34	-0.37
	TB-450-C2	N	-77.411	-77.411	-77.411
		Vy	0.337	0.337	0.337
		Vz	-45.554	-45.554	-45.554
		Mt	-0.17	-0.17	-0.17
		My	-6.18	-0.49	5.20
		Mz	-0.59	-0.63	-0.67

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-D1	N	-73.242	-73.242	-73.242
		Vy	0.029	0.029	0.029
		Vz	2.019	2.019	2.019
		Mt	0.00	0.00	0.00
		My	11.90	11.64	11.39
		Mz	-0.19	-0.19	-0.20
	TB-450-D2	N	-173.838	-173.838	-173.838
		Vy	0.016	0.016	0.016
		Vz	5.389	5.389	5.389
		Mt	0.02	0.02	0.02
		My	28.21	27.54	26.87
		Mz	-0.21	-0.21	-0.21
	TB-450-E1	N	-23.192	-23.192	-23.192
		Vy	0.025	0.025	0.025
		Vz	8.509	8.509	8.509
		Mt	0.00	0.00	0.00
		My	3.32	2.25	1.19
		Mz	-0.12	-0.12	-0.12
	TB-450-E2	N	-64.135	-64.135	-64.135
		Vy	0.055	0.055	0.055
		Vz	23.916	23.916	23.916
		Mt	0.00	0.00	0.00
		My	9.07	6.08	3.09
		Mz	-0.18	-0.18	-0.19

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N53/N181	Peso próprio	N	-254.207	-254.171	-254.135
		Vy	-0.637	-0.637	-0.637
		Vz	-72.632	-72.334	-72.036
		Mt	-0.14	-0.14	-0.14
		My	18.64	27.70	36.73

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-1.36	-1.28	-1.20
	Guarda Corpo	N	-71.314	-71.314	-71.314
		Vy	-0.141	-0.141	-0.141
		Vz	-21.325	-21.325	-21.325
		Mt	-0.03	-0.03	-0.03
		My	5.47	8.14	10.80
		Mz	-0.12	-0.11	-0.09
	Laje	N	-529.390	-529.390	-529.390
		Vy	-1.391	-1.391	-1.391
		Vz	-158.434	-158.434	-158.434
		Mt	-0.32	-0.32	-0.32
		My	40.72	60.52	80.33
		Mz	-1.06	-0.89	-0.71
	Pavimentação	N	-290.667	-290.667	-290.667
		Vy	-0.783	-0.783	-0.783
		Vz	-87.505	-87.505	-87.505
		Mt	-0.18	-0.18	-0.18
		My	22.34	33.28	44.22
		Mz	-0.59	-0.49	-0.39
	Recapeamento	N	-131.363	-131.363	-131.363
		Vy	-0.352	-0.352	-0.352
		Vz	-39.334	-39.334	-39.334
		Mt	-0.08	-0.08	-0.08
		My	10.11	15.02	19.94
		Mz	-0.27	-0.22	-0.18
	Vento 0	N	37.885	37.885	37.885
		Vy	18.636	18.636	18.636
		Vz	25.637	25.637	25.637
		Mt	2.16	2.16	2.16
		My	-2.17	-5.38	-8.58
		Mz	15.61	13.28	10.95
	Vento 180	N	-39.411	-39.380	-39.349
		Vy	-14.558	-14.666	-14.774
		Vz	-25.057	-25.061	-25.065

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-1.97	-1.97	-1.97
		My	2.18	5.31	8.44
		Mz	-14.03	-12.21	-10.37
	Multidão (Passeio)	N	-92.564	-92.564	-92.564
		Vy	-0.110	-0.110	-0.110
		Vz	-27.638	-27.638	-27.638
		Mt	-0.02	-0.02	-0.02
		My	7.08	10.54	13.99
		Mz	-0.13	-0.12	-0.10
	Multidão - TB450	N	-301.881	-301.881	-301.881
		Vy	-0.985	-0.985	-0.985
		Vz	-90.494	-90.494	-90.494
		Mt	-0.24	-0.24	-0.24
		My	23.27	34.58	45.89
		Mz	-0.68	-0.56	-0.44
	TB-450-A1	N	-15.559	-15.559	-15.559
		Vy	0.197	0.197	0.197
		Vz	-9.671	-9.671	-9.671
		Mt	0.03	0.03	0.03
		My	0.15	1.35	2.56
		Mz	0.14	0.12	0.09
	TB-450-A2	N	-38.208	-38.208	-38.208
		Vy	0.197	0.197	0.197
		Vz	-23.511	-23.511	-23.511
		Mt	0.02	0.02	0.02
		My	0.38	3.32	6.26
		Mz	0.17	0.14	0.12
	TB-450-B1	N	-47.725	-47.725	-47.725
		Vy	-0.034	-0.034	-0.034
		Vz	-29.752	-29.752	-29.752
		Mt	0.00	0.00	0.00
		My	0.61	4.33	8.05
		Mz	-0.10	-0.10	-0.09
	TB-450-B2	N	-113.865	-113.865	-113.865

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.056	-0.056	-0.056
		Vz	-69.978	-69.978	-69.978
		Mt	-0.01	-0.01	-0.01
		My	1.38	10.13	18.87
		Mz	-0.04	-0.03	-0.03
	TB-450-C1	N	-183.382	-183.382	-183.382
		Vy	-0.971	-0.971	-0.971
		Vz	-106.604	-106.604	-106.604
		Mt	-0.30	-0.30	-0.30
		My	12.24	25.56	38.89
		Mz	-0.40	-0.27	-0.15
	TB-450-C2	N	-76.773	-76.773	-76.773
		Vy	-1.157	-1.157	-1.157
		Vz	-45.617	-45.617	-45.617
		Mt	-0.29	-0.29	-0.29
		My	5.25	10.95	16.66
		Mz	-0.71	-0.56	-0.42
	TB-450-D1	N	-73.076	-73.076	-73.076
		Vy	-0.075	-0.075	-0.075
		Vz	2.006	2.006	2.006
		Mt	-0.01	-0.01	-0.01
		My	11.40	11.15	10.90
		Mz	-0.20	-0.19	-0.18
	TB-450-D2	N	-173.727	-173.727	-173.727
		Vy	-0.114	-0.114	-0.114
		Vz	5.375	5.375	5.375
		Mt	0.01	0.01	0.01
		My	26.87	26.20	25.53
		Mz	-0.21	-0.20	-0.19
	TB-450-E1	N	-23.187	-23.187	-23.187
		Vy	-0.118	-0.118	-0.118
		Vz	8.501	8.501	8.501
		Mt	-0.02	-0.02	-0.02
		My	1.19	0.13	-0.94

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-0.13	-0.11	-0.10
	TB-450-E2	N	-64.212	-64.212	-64.212
		Vy	-0.263	-0.263	-0.263
		Vz	23.901	23.901	23.901
		Mt	-0.03	-0.03	-0.03
		My	3.08	0.10	-2.89
		Mz	-0.20	-0.16	-0.13

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N181/N17	Peso próprio	N	-259.902	-259.847	-259.792	-259.737	-259.683	-259.628	-259.573
		Vy	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316
		Vz	-0.548	-0.099	0.349	0.798	1.247	1.695	2.144
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	21.96	22.02	22.00	21.89	21.70	21.42	21.06
		Mz	-1.19	-1.13	-1.07	-1.02	-0.96	-0.90	-0.84
	Guarda Corpo	N	-73.075	-73.075	-73.075	-73.075	-73.075	-73.075	-73.075
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	0.697	0.697	0.697	0.697	0.697	0.697	0.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	6.59	6.46	6.33	6.19	6.06	5.93	5.80
		Mz	-0.09	-0.08	-0.06	-0.05	-0.04	-0.03	-0.02
	Laje	N	-542.488	-542.488	-542.488	-542.488	-542.488	-542.488	-542.488
		Vy	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550
		Vz	5.234	5.234	5.234	5.234	5.234	5.234	5.234
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	48.99	48.01	47.03	46.04	45.06	44.07	43.09
		Mz	-0.71	-0.61	-0.50	-0.40	-0.29	-0.19	-0.09
	Pavimentação	N	-297.901	-297.901	-297.901	-297.901	-297.901	-297.901	-297.901
		Vy	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305
		Vz	2.828	2.828	2.828	2.828	2.828	2.828	2.828
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.91	26.38	25.85	25.32	24.78	24.25	23.72
		Mz	-0.39	-0.33	-0.28	-0.22	-0.16	-0.10	-0.05

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Recapeamento	N	-134.615	-134.615	-134.615	-134.615	-134.615	-134.615	-134.615
		Vy	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
		Vz	1.298	1.298	1.298	1.298	1.298	1.298	1.298
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	12.16	11.92	11.67	11.43	11.18	10.94	10.69
		Mz	-0.18	-0.15	-0.12	-0.10	-0.07	-0.05	-0.02
	Vento 0	N	40.420	40.420	40.420	40.420	40.420	40.420	40.420
		Vy	13.873	13.873	13.873	13.873	13.873	13.873	13.873
		Vz	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
		Mt	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54
		My	-2.64	-2.63	-2.62	-2.60	-2.59	-2.57	-2.56
		Mz	10.92	8.31	5.70	3.09	0.48	-2.13	-4.74
	Vento 180	N	-41.174	-41.127	-41.081	-41.034	-40.988	-40.941	-40.895
		Vy	-12.440	-12.603	-12.766	-12.928	-13.091	-13.254	-13.417
		Vz	0.642	0.636	0.631	0.625	0.619	0.614	0.608
		Mt	0.54	0.54	0.54	0.54	0.54	0.54	0.54
		My	3.33	3.21	3.09	2.98	2.86	2.74	2.63
		Mz	-10.32	-7.97	-5.58	-3.17	-0.72	1.76	4.27
	Multidão (Passeio)	N	-94.844	-94.844	-94.844	-94.844	-94.844	-94.844	-94.844
		Vy	-0.066	-0.066	-0.066	-0.066	-0.066	-0.066	-0.066
		Vz	0.893	0.893	0.893	0.893	0.893	0.893	0.893
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.53	8.36	8.20	8.03	7.86	7.69	7.52
		Mz	-0.10	-0.09	-0.08	-0.07	-0.05	-0.04	-0.03
	Multidão - TB450	N	-309.370	-309.370	-309.370	-309.370	-309.370	-309.370	-309.370
		Vy	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357
		Vz	3.011	3.011	3.011	3.011	3.011	3.011	3.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	27.99	27.42	26.86	26.29	25.72	25.16	24.59
		Mz	-0.43	-0.37	-0.30	-0.23	-0.16	-0.10	-0.03
	TB-450-A1	N	-16.495	-16.495	-16.495	-16.495	-16.495	-16.495	-16.495
		Vy	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vz	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.26	0.25	0.23	0.22	0.20	0.19	0.17

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	0.09	0.06	0.04	0.01	-0.02	-0.05	-0.07
	TB-450-A2	N	-40.484	-40.484	-40.484	-40.484	-40.484	-40.484	-40.484
		Vy	0.144	0.144	0.144	0.144	0.144	0.144	0.144
		Vz	0.184	0.184	0.184	0.184	0.184	0.184	0.184
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.67	0.64	0.60	0.57	0.53	0.50	0.46
		Mz	0.12	0.09	0.06	0.04	0.01	-0.02	-0.04
	TB-450-B1	N	-50.584	-50.584	-50.584	-50.584	-50.584	-50.584	-50.584
		Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vz	0.069	0.069	0.069	0.069	0.069	0.069	0.069
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.02	1.01	1.00	0.98	0.97	0.96	0.94
		Mz	-0.09	-0.09	-0.08	-0.08	-0.07	-0.07	-0.06
	TB-450-B2	N	-120.592	-120.592	-120.592	-120.592	-120.592	-120.592	-120.592
		Vy	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052
		Vz	0.151	0.151	0.151	0.151	0.151	0.151	0.151
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.35	2.32	2.29	2.26	2.23	2.20	2.18
		Mz	-0.03	-0.02	-0.01	0.00	0.01	0.02	0.03
	TB-450-C1	N	-192.186	-192.186	-192.186	-192.186	-192.186	-192.186	-192.186
		Vy	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157
		Vz	-3.092	-3.092	-3.092	-3.092	-3.092	-3.092	-3.092
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	17.77	18.35	18.93	19.51	20.09	20.67	21.26
		Mz	-0.15	-0.12	-0.09	-0.06	-0.03	0.00	0.03
	TB-450-C2	N	-80.573	-80.573	-80.573	-80.573	-80.573	-80.573	-80.573
		Vy	-0.395	-0.395	-0.395	-0.395	-0.395	-0.395	-0.395
		Vz	-1.249	-1.249	-1.249	-1.249	-1.249	-1.249	-1.249
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	7.56	7.80	8.03	8.27	8.50	8.74	8.97
		Mz	-0.41	-0.34	-0.27	-0.19	-0.12	-0.04	0.03
	TB-450-D1	N	-72.529	-72.529	-72.529	-72.529	-72.529	-72.529	-72.529
		Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vz	2.996	2.996	2.996	2.996	2.996	2.996	2.996
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	12.37	11.80	11.24	10.68	10.11	9.55	8.98
		Mz	-0.18	-0.17	-0.15	-0.14	-0.13	-0.11	-0.10
	TB-450-D2	N	-172.380	-172.380	-172.380	-172.380	-172.380	-172.380	-172.380
		Vy	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127
		Vz	7.083	7.083	7.083	7.083	7.083	7.083	7.083
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	29.12	27.79	26.46	25.12	23.79	22.46	21.13
		Mz	-0.19	-0.16	-0.14	-0.11	-0.09	-0.07	-0.04
	TB-450-E1	N	-22.352	-22.352	-22.352	-22.352	-22.352	-22.352	-22.352
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	0.493	0.493	0.493	0.493	0.493	0.493	0.493
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.16	1.06	0.97	0.88	0.79	0.69	0.60
		Mz	-0.10	-0.08	-0.06	-0.04	-0.03	-0.01	0.01
	TB-450-E2	N	-61.863	-61.863	-61.863	-61.863	-61.863	-61.863	-61.863
		Vy	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202
		Vz	1.318	1.318	1.318	1.318	1.318	1.318	1.318
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	3.00	2.76	2.51	2.26	2.01	1.76	1.52
		Mz	-0.13	-0.09	-0.06	-0.02	0.02	0.06	0.10

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N17/N180	Peso próprio	N	-259.573	-259.519	-259.464	-259.409	-259.354	-259.300	-259.245
		Vy	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316
		Vz	2.144	2.592	3.041	3.490	3.938	4.387	4.836
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	21.06	20.62	20.09	19.47	18.77	17.99	17.12
		Mz	-0.84	-0.78	-0.72	-0.66	-0.60	-0.54	-0.48
	Guarda Corpo	N	-73.075	-73.075	-73.075	-73.075	-73.075	-73.075	-73.075
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	0.697	0.697	0.697	0.697	0.697	0.697	0.697
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.80	5.67	5.54	5.41	5.28	5.15	5.01

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	-0.02	0.00	0.01	0.02	0.03	0.04	0.05
	Laje	N	-542.488	-542.488	-542.488	-542.488	-542.488	-542.488	-542.488
		Vy	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550	-0.550
		Vz	5.234	5.234	5.234	5.234	5.234	5.234	5.234
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	43.09	42.10	41.12	40.13	39.15	38.16	37.18
		Mz	-0.09	0.02	0.12	0.22	0.33	0.43	0.53
	Pavimentação	N	-297.901	-297.901	-297.901	-297.901	-297.901	-297.901	-297.901
		Vy	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305	-0.305
		Vz	2.828	2.828	2.828	2.828	2.828	2.828	2.828
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	23.72	23.19	22.66	22.12	21.59	21.06	20.53
		Mz	-0.05	0.01	0.07	0.13	0.18	0.24	0.30
	Recapeamento	N	-134.615	-134.615	-134.615	-134.615	-134.615	-134.615	-134.615
		Vy	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
		Vz	1.298	1.298	1.298	1.298	1.298	1.298	1.298
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	10.69	10.45	10.21	9.96	9.72	9.47	9.23
		Mz	-0.02	0.00	0.03	0.06	0.08	0.11	0.13
	Vento 0	N	40.420	40.420	40.420	40.420	40.420	40.420	40.420
		Vy	13.873	13.873	13.873	13.873	13.873	13.873	13.873
		Vz	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071	-0.071
		Mt	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54
		My	-2.56	-2.55	-2.53	-2.52	-2.51	-2.49	-2.48
		Mz	-4.74	-7.35	-9.96	-12.57	-15.18	-17.79	-20.39
	Vento 180	N	-40.895	-40.848	-40.802	-40.755	-40.708	-40.662	-40.615
		Vy	-13.417	-13.579	-13.742	-13.905	-14.067	-14.230	-14.393
		Vz	0.608	0.602	0.596	0.591	0.585	0.579	0.574
		Mt	0.54	0.54	0.54	0.54	0.54	0.54	0.54
		My	2.63	2.51	2.40	2.29	2.18	2.07	1.96
		Mz	4.27	6.81	9.38	11.98	14.61	17.27	19.96
	Multidão (Passeio)	N	-94.844	-94.844	-94.844	-94.844	-94.844	-94.844	-94.844
		Vy	-0.066	-0.066	-0.066	-0.066	-0.066	-0.066	-0.066
		Vz	0.893	0.893	0.893	0.893	0.893	0.893	0.893
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	7.52	7.36	7.19	7.02	6.85	6.68	6.52
		Mz	-0.03	-0.02	0.00	0.01	0.02	0.03	0.04
	Multidão - TB450	N	-309.370	-309.370	-309.370	-309.370	-309.370	-309.370	-309.370
		Vy	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357
		Vz	3.011	3.011	3.011	3.011	3.011	3.011	3.011
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	24.59	24.02	23.46	22.89	22.32	21.76	21.19
		Mz	-0.03	0.04	0.10	0.17	0.24	0.31	0.37
	TB-450-A1	N	-16.495	-16.495	-16.495	-16.495	-16.495	-16.495	-16.495
		Vy	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		Vz	0.079	0.079	0.079	0.079	0.079	0.079	0.079
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.17	0.16	0.14	0.13	0.11	0.10	0.08
		Mz	-0.07	-0.10	-0.13	-0.16	-0.18	-0.21	-0.24
	TB-450-A2	N	-40.484	-40.484	-40.484	-40.484	-40.484	-40.484	-40.484
		Vy	0.144	0.144	0.144	0.144	0.144	0.144	0.144
		Vz	0.184	0.184	0.184	0.184	0.184	0.184	0.184
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.46	0.43	0.39	0.36	0.32	0.29	0.26
		Mz	-0.04	-0.07	-0.10	-0.12	-0.15	-0.18	-0.21
	TB-450-B1	N	-50.584	-50.584	-50.584	-50.584	-50.584	-50.584	-50.584
		Vy	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vz	0.069	0.069	0.069	0.069	0.069	0.069	0.069
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.94	0.93	0.92	0.90	0.89	0.88	0.87
		Mz	-0.06	-0.05	-0.05	-0.04	-0.04	-0.03	-0.03
	TB-450-B2	N	-120.592	-120.592	-120.592	-120.592	-120.592	-120.592	-120.592
		Vy	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052	-0.052
		Vz	0.151	0.151	0.151	0.151	0.151	0.151	0.151
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.18	2.15	2.12	2.09	2.06	2.03	2.01
		Mz	0.03	0.04	0.05	0.06	0.07	0.08	0.09
	TB-450-C1	N	-192.186	-192.186	-192.186	-192.186	-192.186	-192.186	-192.186
		Vy	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157
		Vz	-3.092	-3.092	-3.092	-3.092	-3.092	-3.092	-3.092

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.26	21.84	22.42	23.00	23.58	24.16	24.75
		Mz	0.03	0.06	0.09	0.12	0.15	0.17	0.20
	TB-450-C2	N	-80.573	-80.573	-80.573	-80.573	-80.573	-80.573	-80.573
		Vy	-0.395	-0.395	-0.395	-0.395	-0.395	-0.395	-0.395
		Vz	-1.249	-1.249	-1.249	-1.249	-1.249	-1.249	-1.249
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	8.97	9.21	9.44	9.68	9.91	10.15	10.38
		Mz	0.03	0.11	0.18	0.25	0.33	0.40	0.48
	TB-450-D1	N	-72.529	-72.529	-72.529	-72.529	-72.529	-72.529	-72.529
		Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vz	2.996	2.996	2.996	2.996	2.996	2.996	2.996
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.98	8.42	7.86	7.29	6.73	6.17	5.60
		Mz	-0.10	-0.08	-0.07	-0.06	-0.04	-0.03	-0.02
	TB-450-D2	N	-172.380	-172.380	-172.380	-172.380	-172.380	-172.380	-172.380
		Vy	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127
		Vz	7.083	7.083	7.083	7.083	7.083	7.083	7.083
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	21.13	19.79	18.46	17.13	15.80	14.46	13.13
		Mz	-0.04	-0.02	0.00	0.03	0.05	0.08	0.10
	TB-450-E1	N	-22.352	-22.352	-22.352	-22.352	-22.352	-22.352	-22.352
		Vy	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092	-0.092
		Vz	0.493	0.493	0.493	0.493	0.493	0.493	0.493
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.60	0.51	0.42	0.32	0.23	0.14	0.04
		Mz	0.01	0.03	0.04	0.06	0.08	0.09	0.11
	TB-450-E2	N	-61.863	-61.863	-61.863	-61.863	-61.863	-61.863	-61.863
		Vy	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202
		Vz	1.318	1.318	1.318	1.318	1.318	1.318	1.318
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	1.52	1.27	1.02	0.77	0.52	0.28	0.03
		Mz	0.10	0.13	0.17	0.21	0.25	0.29	0.32

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N180/N51	Peso próprio	N	-265.804	-265.768	-265.732
		Vy	0.199	0.199	0.199
		Vz	-9.115	-8.817	-8.519
		Mt	1.32	1.32	1.32
		My	8.68	9.80	10.88
		Mz	-0.79	-0.81	-0.84
	Guarda Corpo	N	-74.077	-74.077	-74.077
		Vy	0.008	0.008	0.008
		Vz	-0.695	-0.695	-0.695
		Mt	0.02	0.02	0.02
		My	3.09	3.18	3.27
		Mz	0.05	0.05	0.05
	Laje	N	-549.781	-549.781	-549.781
		Vy	0.250	0.250	0.250
		Vz	-4.511	-4.511	-4.511
		Mt	0.35	0.35	0.35
		My	22.93	23.50	24.06
		Mz	0.50	0.46	0.43
	Pavimentação	N	-301.984	-301.984	-301.984
		Vy	0.150	0.150	0.150
		Vz	-2.732	-2.732	-2.732
		Mt	0.20	0.20	0.20
		My	12.62	12.96	13.31
		Mz	0.28	0.26	0.24
	Recapeamento	N	-136.425	-136.425	-136.425
		Vy	0.066	0.066	0.066
		Vz	-1.117	-1.117	-1.117
		Mt	0.09	0.09	0.09
		My	5.69	5.83	5.97
		Mz	0.12	0.12	0.11
	Vento 0	N	43.805	43.805	43.805
		Vy	5.713	5.713	5.713
		Vz	6.926	6.926	6.926
		Mt	-23.03	-23.03	-23.03
		My	2.52	1.66	0.79

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-14.94	-15.65	-16.37
	Vento 180	N	-43.197	-43.166	-43.135
		Vy	-8.847	-8.955	-9.063
		Vz	-6.316	-6.320	-6.324
		Mt	22.18	22.18	22.18
		My	-2.09	-1.30	-0.51
		Mz	14.54	15.65	16.78
	Multidão (Passeio)	N	-96.173	-96.173	-96.173
		Vy	-0.029	-0.029	-0.029
		Vz	-1.032	-1.032	-1.032
		Mt	-0.01	-0.01	-0.01
		My	4.02	4.15	4.28
		Mz	0.05	0.05	0.06
	Multidão - TB450	N	-313.460	-313.460	-313.460
		Vy	0.247	0.247	0.247
		Vz	-2.254	-2.254	-2.254
		Mt	0.29	0.29	0.29
		My	13.07	13.35	13.63
		Mz	0.34	0.31	0.27
	TB-450-A1	N	-19.390	-19.390	-19.390
		Vy	0.051	0.051	0.051
		Vz	-8.292	-8.292	-8.292
		Mt	-0.28	-0.28	-0.28
		My	-2.63	-1.60	-0.56
		Mz	-0.17	-0.18	-0.19
	TB-450-A2	N	-47.453	-47.453	-47.453
		Vy	0.047	0.047	0.047
		Vz	-19.928	-19.928	-19.928
		Mt	-0.29	-0.29	-0.29
		My	-6.31	-3.82	-1.33
		Mz	-0.14	-0.14	-0.15
	TB-450-B1	N	-59.130	-59.130	-59.130
		Vy	-0.035	-0.035	-0.035
		Vz	-24.564	-24.564	-24.564

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-0.04	-0.04	-0.04
		My	-7.19	-4.12	-1.05
		Mz	-0.02	-0.01	-0.01
	TB-450-B2	N	-140.744	-140.744	-140.744
		Vy	-0.056	-0.056	-0.056
		Vz	-57.951	-57.951	-57.951
		Mt	-0.04	-0.04	-0.04
		My	-16.97	-9.73	-2.48
		Mz	0.10	0.11	0.11
	TB-450-C1	N	-203.271	-203.271	-203.271
		Vy	0.616	0.616	0.616
		Vz	-30.116	-30.116	-30.116
		Mt	0.27	0.27	0.27
		My	11.33	15.10	18.86
		Mz	0.18	0.11	0.03
	TB-450-C2	N	-85.240	-85.240	-85.240
		Vy	0.392	0.392	0.392
		Vz	-12.397	-12.397	-12.397
		Mt	0.63	0.63	0.63
		My	4.58	6.13	7.68
		Mz	0.36	0.32	0.27
	TB-450-D1	N	-63.543	-63.543	-63.543
		Vy	-0.080	-0.080	-0.080
		Vz	31.445	31.445	31.445
		Mt	-0.05	-0.05	-0.05
		My	12.32	8.39	4.46
		Mz	0.00	0.01	0.02
	TB-450-D2	N	-151.047	-151.047	-151.047
		Vy	-0.148	-0.148	-0.148
		Vz	74.595	74.595	74.595
		Mt	-0.02	-0.02	-0.02
		My	29.10	19.78	10.45
		Mz	0.11	0.12	0.14
	TB-450-E1	N	-19.083	-19.083	-19.083

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.051	-0.051	-0.051
		Vz	10.371	10.371	10.371
		Mt	0.11	0.11	0.11
		My	2.81	1.51	0.22
		Mz	0.09	0.09	0.10
	TB-450-E2	N	-52.793	-52.793	-52.793
		Vy	-0.103	-0.103	-0.103
		Vz	28.700	28.700	28.700
		Mt	0.28	0.28	0.28
		My	7.71	4.12	0.54
		Mz	0.26	0.27	0.28

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N57/N187	Peso próprio	N	-107.056	-107.002	-106.947
		Vy	0.457	0.457	0.457
		Vz	-252.247	-251.800	-251.354
		Mt	0.15	0.15	0.15
		My	-127.14	-95.64	-64.19
		Mz	0.70	0.64	0.58
	Guarda Corpo	N	-28.713	-28.713	-28.713
		Vy	0.038	0.038	0.038
		Vz	-71.202	-71.202	-71.202
		Mt	0.04	0.04	0.04
		My	-34.27	-25.37	-16.46
		Mz	0.16	0.15	0.15
	Laje	N	-213.198	-213.198	-213.198
		Vy	0.280	0.280	0.280
		Vz	-528.702	-528.702	-528.702
		Mt	0.30	0.30	0.30
		My	-254.43	-188.35	-122.26
		Mz	1.15	1.12	1.08

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	Pavimentação	N	-116.848	-116.848	-116.848
		Vy	0.153	0.153	0.153
		Vz	-289.776	-289.776	-289.776
		Mt	0.16	0.16	0.16
		My	-139.46	-103.24	-67.02
		Mz	0.63	0.61	0.59
	Recapeamento	N	-52.897	-52.897	-52.897
		Vy	0.069	0.069	0.069
		Vz	-131.177	-131.177	-131.177
		Mt	0.07	0.07	0.07
		My	-63.13	-46.73	-30.33
		Mz	0.29	0.28	0.27
	Vento 0	N	12.372	12.372	12.372
		Vy	3.642	3.642	3.642
		Vz	26.282	26.282	26.282
		Mt	-2.85	-2.85	-2.85
		My	14.28	11.00	7.71
		Mz	7.63	7.18	6.72
	Vento 180	N	-13.454	-13.423	-13.392
		Vy	-0.010	-0.118	-0.226
		Vz	-25.935	-25.939	-25.942
		Mt	2.98	2.98	2.98
		My	-13.37	-10.12	-6.88
		Mz	-7.11	-7.10	-7.08
	Multidão (Passeio)	N	-37.263	-37.263	-37.263
		Vy	0.050	0.050	0.050
		Vz	-92.404	-92.404	-92.404
		Mt	0.05	0.05	0.05
		My	-44.47	-32.92	-21.37
		Mz	0.21	0.20	0.19
	Multidão - TB450	N	-121.573	-121.573	-121.573
		Vy	0.158	0.158	0.158
		Vz	-301.491	-301.491	-301.491
		Mt	0.17	0.17	0.17

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-145.09	-107.41	-69.72
		Mz	0.65	0.63	0.61
	TB-450-A1	N	-4.320	-4.320	-4.320
		Vy	0.010	0.010	0.010
		Vz	-10.901	-10.901	-10.901
		Mt	0.03	0.03	0.03
		My	-5.34	-3.98	-2.61
		Mz	0.02	0.02	0.01
	TB-450-A2	N	-10.559	-10.559	-10.559
		Vy	-0.007	-0.007	-0.007
		Vz	-26.454	-26.454	-26.454
		Mt	0.03	0.03	0.03
		My	-12.96	-9.66	-6.35
		Mz	0.01	0.01	0.01
	TB-450-B1	N	-13.393	-13.393	-13.393
		Vy	-0.027	-0.027	-0.027
		Vz	-33.598	-33.598	-33.598
		Mt	0.08	0.08	0.08
		My	-16.48	-12.28	-8.08
		Mz	-0.04	-0.04	-0.04
	TB-450-B2	N	-31.629	-31.629	-31.629
		Vy	0.000	0.000	0.000
		Vz	-78.860	-78.860	-78.860
		Mt	-0.06	-0.06	-0.06
		My	-38.61	-28.76	-18.90
		Mz	0.15	0.15	0.15
	TB-450-C1	N	-52.277	-52.277	-52.277
		Vy	0.027	0.027	0.027
		Vz	-130.499	-130.499	-130.499
		Mt	-0.06	-0.06	-0.06
		My	-63.88	-47.56	-31.25
		Mz	0.25	0.25	0.25
	TB-450-C2	N	-22.103	-22.103	-22.103
		Vy	-0.028	-0.028	-0.028

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-55.420	-55.420	-55.420
		Mt	0.09	0.09	0.09
		My	-27.17	-20.24	-13.32
		Mz	-0.05	-0.05	-0.04
	TB-450-D1	N	-30.944	-30.944	-30.944
		Vy	0.007	0.007	0.007
		Vz	-77.682	-77.682	-77.682
		Mt	0.06	0.06	0.06
		My	-37.69	-27.98	-18.27
		Mz	0.02	0.02	0.02
	TB-450-D2	N	-73.186	-73.186	-73.186
		Vy	0.022	0.022	0.022
		Vz	-182.939	-182.939	-182.939
		Mt	-0.04	-0.04	-0.04
		My	-88.68	-65.82	-42.95
		Mz	0.26	0.26	0.26
	TB-450-E1	N	-21.428	-21.428	-21.428
		Vy	0.103	0.103	0.103
		Vz	-52.921	-52.921	-52.921
		Mt	0.09	0.09	0.09
		My	-24.08	-17.47	-10.85
		Mz	0.24	0.23	0.22
	TB-450-E2	N	-62.713	-62.713	-62.713
		Vy	0.220	0.220	0.220
		Vz	-152.054	-152.054	-152.054
		Mt	0.12	0.12	0.12
		My	-70.49	-51.49	-32.48
		Mz	0.62	0.60	0.57

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N187/N30	Peso próprio	N	-127.977	-127.895	-127.813	-127.731	-127.649	-127.567	-127.485
		Vy	0.435	0.435	0.435	0.435	0.435	0.435	0.435

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vz	-45.388	-44.716	-44.044	-43.371	-42.699	-42.027	-41.355
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-108.76	-100.28	-91.94	-83.71	-75.62	-67.65	-59.81
		Mz	0.58	0.50	0.41	0.33	0.25	0.17	0.09
	Guarda Corpo	N	-35.214	-35.214	-35.214	-35.214	-35.214	-35.214	-35.214
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-11.228	-11.228	-11.228	-11.228	-11.228	-11.228	-11.228
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-29.95	-27.84	-25.72	-23.61	-21.50	-19.39	-17.28
		Mz	0.14	0.14	0.13	0.12	0.12	0.11	0.11
	Laje	N	-261.470	-261.470	-261.470	-261.470	-261.470	-261.470	-261.470
		Vy	0.244	0.244	0.244	0.244	0.244	0.244	0.244
		Vz	-83.378	-83.378	-83.378	-83.378	-83.378	-83.378	-83.378
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-222.37	-206.68	-191.00	-175.31	-159.63	-143.95	-128.26
		Mz	1.05	1.00	0.96	0.91	0.87	0.82	0.77
	Pavimentação	N	-143.324	-143.324	-143.324	-143.324	-143.324	-143.324	-143.324
		Vy	0.134	0.134	0.134	0.134	0.134	0.134	0.134
		Vz	-45.689	-45.689	-45.689	-45.689	-45.689	-45.689	-45.689
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-121.95	-113.35	-104.76	-96.16	-87.57	-78.97	-70.38
		Mz	0.58	0.55	0.52	0.50	0.47	0.45	0.42
	Recapeamento	N	-64.874	-64.874	-64.874	-64.874	-64.874	-64.874	-64.874
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	-20.687	-20.687	-20.687	-20.687	-20.687	-20.687	-20.687
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-55.17	-51.28	-47.39	-43.50	-39.61	-35.72	-31.83
		Mz	0.26	0.25	0.24	0.23	0.21	0.20	0.19
	Vento 0	N	15.070	15.070	15.070	15.070	15.070	15.070	15.070
		Vy	3.929	3.929	3.929	3.929	3.929	3.929	3.929
		Vz	4.366	4.366	4.366	4.366	4.366	4.366	4.366
		Mt	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
		My	13.47	12.65	11.83	11.01	10.19	9.37	8.54
		Mz	7.17	6.43	5.69	4.95	4.21	3.47	2.74
	Vento 180	N	-15.435	-15.389	-15.342	-15.296	-15.249	-15.203	-15.156

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Vy	-3.264	-3.426	-3.589	-3.752	-3.914	-4.077	-4.240
		Vz	-3.491	-3.497	-3.503	-3.508	-3.514	-3.520	-3.525
		Mt	0.46	0.46	0.46	0.46	0.46	0.46	0.46
		My	-12.18	-11.52	-10.87	-10.21	-9.55	-8.88	-8.22
		Mz	-7.51	-6.88	-6.22	-5.53	-4.81	-4.06	-3.27
	Multidão (Passeio)	N	-45.701	-45.701	-45.701	-45.701	-45.701	-45.701	-45.701
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	-14.572	-14.572	-14.572	-14.572	-14.572	-14.572	-14.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-38.87	-36.13	-33.38	-30.64	-27.90	-25.16	-22.42
		Mz	0.19	0.18	0.17	0.16	0.16	0.15	0.14
	Multidão - TB450	N	-149.100	-149.100	-149.100	-149.100	-149.100	-149.100	-149.100
		Vy	0.138	0.138	0.138	0.138	0.138	0.138	0.138
		Vz	-47.546	-47.546	-47.546	-47.546	-47.546	-47.546	-47.546
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-126.81	-117.87	-108.92	-99.98	-91.03	-82.09	-73.15
		Mz	0.59	0.56	0.54	0.51	0.49	0.46	0.44
	TB-450-A1	N	-5.480	-5.480	-5.480	-5.480	-5.480	-5.480	-5.480
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-1.631	-1.631	-1.631	-1.631	-1.631	-1.631	-1.631
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.19	-4.88	-4.58	-4.27	-3.96	-3.66	-3.35
		Mz	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	TB-450-A2	N	-13.374	-13.374	-13.374	-13.374	-13.374	-13.374	-13.374
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-3.960	-3.960	-3.960	-3.960	-3.960	-3.960	-3.960
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-12.60	-11.85	-11.11	-10.36	-9.62	-8.87	-8.13
		Mz	0.01	0.01	0.01	0.02	0.02	0.02	0.02
	TB-450-B1	N	-16.967	-16.967	-16.967	-16.967	-16.967	-16.967	-16.967
		Vy	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Vz	-5.033	-5.033	-5.033	-5.033	-5.033	-5.033	-5.033
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.01	-15.06	-14.12	-13.17	-12.22	-11.28	-10.33
		Mz	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	TB-450-B2	N	-40.021	-40.021	-40.021	-40.021	-40.021	-40.021	-40.021
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-11.795	-11.795	-11.795	-11.795	-11.795	-11.795	-11.795
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-37.53	-35.32	-33.10	-30.88	-28.66	-26.44	-24.22
		Mz	0.16	0.16	0.16	0.16	0.15	0.15	0.15
	TB-450-C1	N	-66.136	-66.136	-66.136	-66.136	-66.136	-66.136	-66.136
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-19.582	-19.582	-19.582	-19.582	-19.582	-19.582	-19.582
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-62.01	-58.33	-54.64	-50.96	-47.28	-43.59	-39.91
		Mz	0.26	0.25	0.24	0.24	0.23	0.22	0.22
	TB-450-C2	N	-27.986	-27.986	-27.986	-27.986	-27.986	-27.986	-27.986
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-8.326	-8.326	-8.326	-8.326	-8.326	-8.326	-8.326
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-26.37	-24.80	-23.23	-21.67	-20.10	-18.53	-16.97
		Mz	-0.06	-0.05	-0.04	-0.04	-0.03	-0.02	-0.01
	TB-450-D1	N	-38.826	-38.826	-38.826	-38.826	-38.826	-38.826	-38.826
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-13.000	-13.000	-13.000	-13.000	-13.000	-13.000	-13.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-35.56	-33.11	-30.66	-28.22	-25.77	-23.33	-20.88
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-D2	N	-91.747	-91.747	-91.747	-91.747	-91.747	-91.747	-91.747
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	-30.609	-30.609	-30.609	-30.609	-30.609	-30.609	-30.609
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-83.66	-77.90	-72.14	-66.38	-60.63	-54.87	-49.11
		Mz	0.26	0.26	0.25	0.25	0.24	0.24	0.23
	TB-450-E1	N	-24.654	-24.654	-24.654	-24.654	-24.654	-24.654	-24.654
		Vy	0.088	0.088	0.088	0.088	0.088	0.088	0.088
		Vz	-8.455	-8.455	-8.455	-8.455	-8.455	-8.455	-8.455
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-15.87	-14.28	-12.69	-11.10	-9.51	-7.92	-6.33

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	0.21	0.20	0.18	0.16	0.15	0.13	0.11
	TB-450-E2	N	-71.196	-71.196	-71.196	-71.196	-71.196	-71.196	-71.196
		Vy	0.208	0.208	0.208	0.208	0.208	0.208	0.208
		Vz	-24.059	-24.059	-24.059	-24.059	-24.059	-24.059	-24.059
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-44.20	-39.67	-35.15	-30.62	-26.10	-21.57	-17.04
		Mz	0.55	0.51	0.47	0.43	0.39	0.35	0.31

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N30/N186	Peso próprio	N	-127.485	-127.403	-127.321	-127.239	-127.157	-127.075	-126.992
		Vy	0.435	0.435	0.435	0.435	0.435	0.435	0.435
		Vz	-41.355	-40.682	-40.010	-39.338	-38.666	-37.993	-37.321
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-59.81	-52.09	-44.50	-37.04	-29.70	-22.49	-15.41
		Mz	0.09	0.01	-0.08	-0.16	-0.24	-0.32	-0.40
	Guarda Corpo	N	-35.214	-35.214	-35.214	-35.214	-35.214	-35.214	-35.214
		Vy	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vz	-11.228	-11.228	-11.228	-11.228	-11.228	-11.228	-11.228
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-17.28	-15.16	-13.05	-10.94	-8.83	-6.71	-4.60
		Mz	0.11	0.10	0.09	0.09	0.08	0.07	0.07
	Laje	N	-261.470	-261.470	-261.470	-261.470	-261.470	-261.470	-261.470
		Vy	0.244	0.244	0.244	0.244	0.244	0.244	0.244
		Vz	-83.378	-83.378	-83.378	-83.378	-83.378	-83.378	-83.378
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-128.26	-112.58	-96.89	-81.21	-65.52	-49.84	-34.15
		Mz	0.77	0.73	0.68	0.64	0.59	0.54	0.50
	Pavimentação	N	-143.324	-143.324	-143.324	-143.324	-143.324	-143.324	-143.324
		Vy	0.134	0.134	0.134	0.134	0.134	0.134	0.134
		Vz	-45.689	-45.689	-45.689	-45.689	-45.689	-45.689	-45.689
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-70.38	-61.79	-53.19	-44.60	-36.00	-27.41	-18.81
		Mz	0.42	0.40	0.37	0.35	0.32	0.30	0.27

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
	Recapeamento	N	-64.874	-64.874	-64.874	-64.874	-64.874	-64.874	-64.874
		Vy	0.061	0.061	0.061	0.061	0.061	0.061	0.061
		Vz	-20.687	-20.687	-20.687	-20.687	-20.687	-20.687	-20.687
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-31.83	-27.93	-24.04	-20.15	-16.26	-12.37	-8.48
		Mz	0.19	0.18	0.17	0.16	0.15	0.13	0.12
	Vento 0	N	15.070	15.070	15.070	15.070	15.070	15.070	15.070
		Vy	3.929	3.929	3.929	3.929	3.929	3.929	3.929
		Vz	4.366	4.366	4.366	4.366	4.366	4.366	4.366
		Mt	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
		My	8.54	7.72	6.90	6.08	5.26	4.44	3.62
		Mz	2.74	2.00	1.26	0.52	-0.22	-0.96	-1.70
	Vento 180	N	-15.156	-15.110	-15.063	-15.017	-14.970	-14.924	-14.877
		Vy	-4.240	-4.402	-4.565	-4.728	-4.891	-5.053	-5.216
		Vz	-3.525	-3.531	-3.537	-3.542	-3.548	-3.554	-3.560
		Mt	0.46	0.46	0.46	0.46	0.46	0.46	0.46
		My	-8.22	-7.56	-6.89	-6.23	-5.56	-4.89	-4.22
		Mz	-3.27	-2.46	-1.62	-0.74	0.16	1.10	2.06
	Multidão (Passeio)	N	-45.701	-45.701	-45.701	-45.701	-45.701	-45.701	-45.701
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	-14.572	-14.572	-14.572	-14.572	-14.572	-14.572	-14.572
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-22.42	-19.68	-16.94	-14.20	-11.45	-8.71	-5.97
		Mz	0.14	0.13	0.12	0.11	0.11	0.10	0.09
	Multidão - TB450	N	-149.100	-149.100	-149.100	-149.100	-149.100	-149.100	-149.100
		Vy	0.138	0.138	0.138	0.138	0.138	0.138	0.138
		Vz	-47.546	-47.546	-47.546	-47.546	-47.546	-47.546	-47.546
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-73.15	-64.20	-55.26	-46.31	-37.37	-28.43	-19.48
		Mz	0.44	0.41	0.38	0.36	0.33	0.31	0.28
	TB-450-A1	N	-5.480	-5.480	-5.480	-5.480	-5.480	-5.480	-5.480
		Vy	0.007	0.007	0.007	0.007	0.007	0.007	0.007
		Vz	-1.631	-1.631	-1.631	-1.631	-1.631	-1.631	-1.631
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-3.35	-3.04	-2.74	-2.43	-2.12	-1.82	-1.51

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		Mz	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
	TB-450-A2	N	-13.374	-13.374	-13.374	-13.374	-13.374	-13.374	-13.374
		Vy	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vz	-3.960	-3.960	-3.960	-3.960	-3.960	-3.960	-3.960
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-8.13	-7.38	-6.64	-5.89	-5.15	-4.40	-3.66
		Mz	0.02	0.02	0.02	0.03	0.03	0.03	0.03
	TB-450-B1	N	-16.967	-16.967	-16.967	-16.967	-16.967	-16.967	-16.967
		Vy	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Vz	-5.033	-5.033	-5.033	-5.033	-5.033	-5.033	-5.033
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-10.33	-9.38	-8.44	-7.49	-6.54	-5.60	-4.65
		Mz	-0.01	0.00	0.01	0.01	0.02	0.03	0.03
	TB-450-B2	N	-40.021	-40.021	-40.021	-40.021	-40.021	-40.021	-40.021
		Vy	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vz	-11.795	-11.795	-11.795	-11.795	-11.795	-11.795	-11.795
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-24.22	-22.00	-19.78	-17.57	-15.35	-13.13	-10.91
		Mz	0.15	0.15	0.15	0.15	0.15	0.15	0.15
	TB-450-C1	N	-66.136	-66.136	-66.136	-66.136	-66.136	-66.136	-66.136
		Vy	0.034	0.034	0.034	0.034	0.034	0.034	0.034
		Vz	-19.582	-19.582	-19.582	-19.582	-19.582	-19.582	-19.582
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-39.91	-36.23	-32.54	-28.86	-25.17	-21.49	-17.81
		Mz	0.22	0.21	0.20	0.20	0.19	0.18	0.18
	TB-450-C2	N	-27.986	-27.986	-27.986	-27.986	-27.986	-27.986	-27.986
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-8.326	-8.326	-8.326	-8.326	-8.326	-8.326	-8.326
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.97	-15.40	-13.84	-12.27	-10.70	-9.14	-7.57
		Mz	-0.01	-0.01	0.00	0.01	0.01	0.02	0.03
	TB-450-D1	N	-38.826	-38.826	-38.826	-38.826	-38.826	-38.826	-38.826
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-13.000	-13.000	-13.000	-13.000	-13.000	-13.000	-13.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		My	-20.88	-18.44	-15.99	-13.55	-11.10	-8.65	-6.21
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-D2	N	-91.747	-91.747	-91.747	-91.747	-91.747	-91.747	-91.747
		Vy	0.027	0.027	0.027	0.027	0.027	0.027	0.027
		Vz	-30.609	-30.609	-30.609	-30.609	-30.609	-30.609	-30.609
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-49.11	-43.35	-37.59	-31.84	-26.08	-20.32	-14.56
		Mz	0.23	0.23	0.22	0.22	0.21	0.21	0.20
	TB-450-E1	N	-24.654	-24.654	-24.654	-24.654	-24.654	-24.654	-24.654
		Vy	0.088	0.088	0.088	0.088	0.088	0.088	0.088
		Vz	-8.455	-8.455	-8.455	-8.455	-8.455	-8.455	-8.455
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-6.33	-4.74	-3.15	-1.56	0.03	1.62	3.21
		Mz	0.11	0.10	0.08	0.06	0.05	0.03	0.01
	TB-450-E2	N	-71.196	-71.196	-71.196	-71.196	-71.196	-71.196	-71.196
		Vy	0.208	0.208	0.208	0.208	0.208	0.208	0.208
		Vz	-24.059	-24.059	-24.059	-24.059	-24.059	-24.059	-24.059
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-17.04	-12.52	-7.99	-3.47	1.06	5.59	10.11
		Mz	0.31	0.28	0.24	0.20	0.16	0.12	0.08

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N186/N58	Peso próprio	N	-168.788	-168.734	-168.679
		Vy	0.442	0.442	0.442
		Vz	-161.197	-160.750	-160.304
		Mt	0.05	0.05	0.05
		My	-51.63	-31.51	-11.44
		Mz	-0.41	-0.47	-0.52
	Guarda Corpo	N	-46.689	-46.689	-46.689
		Vy	0.032	0.032	0.032
		Vz	-45.305	-45.305	-45.305
		Mt	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	-14.75	-9.09	-3.42
		Mz	0.07	0.06	0.06
	Laje	N	-346.659	-346.659	-346.659
		Vy	0.237	0.237	0.237
		Vz	-336.360	-336.360	-336.360
		Mt	0.00	0.00	0.00
		My	-109.49	-67.44	-25.40
		Mz	0.50	0.47	0.44
	Pavimentação	N	-190.088	-190.088	-190.088
		Vy	0.130	0.130	0.130
		Vz	-184.576	-184.576	-184.576
		Mt	0.00	0.00	0.00
		My	-60.15	-37.08	-14.01
		Mz	0.27	0.26	0.24
	Recapeamento	N	-86.013	-86.013	-86.013
		Vy	0.059	0.059	0.059
		Vz	-83.462	-83.462	-83.462
		Mt	0.00	0.00	0.00
		My	-27.17	-16.74	-6.30
		Mz	0.12	0.12	0.11
	Vento 0	N	20.790	20.790	20.790
		Vy	4.127	4.127	4.127
		Vz	21.625	21.625	21.625
		Mt	0.49	0.49	0.49
		My	8.48	5.78	3.07
		Mz	-1.84	-2.35	-2.87
	Vento 180	N	-19.864	-19.833	-19.802
		Vy	-8.016	-8.124	-8.232
		Vz	-21.034	-21.037	-21.041
		Mt	-0.88	-0.88	-0.88
		My	-8.13	-5.50	-2.87
		Mz	2.21	3.22	4.24
	Multidão (Passeio)	N	-60.593	-60.593	-60.593
		Vy	0.043	0.043	0.043

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-58.797	-58.797	-58.797
		Mt	0.00	0.00	0.00
		My	-19.14	-11.79	-4.44
		Mz	0.09	0.08	0.08
	Multidão - TB450	N	-197.683	-197.683	-197.683
		Vy	0.134	0.134	0.134
		Vz	-191.818	-191.818	-191.818
		Mt	0.00	0.00	0.00
		My	-62.44	-38.46	-14.49
		Mz	0.28	0.26	0.25
	TB-450-A1	N	-7.864	-7.864	-7.864
		Vy	0.006	0.006	0.006
		Vz	-8.843	-8.843	-8.843
		Mt	0.00	0.00	0.00
		My	-3.52	-2.42	-1.31
		Mz	-0.01	-0.01	-0.01
	TB-450-A2	N	-19.158	-19.158	-19.158
		Vy	-0.011	-0.011	-0.011
		Vz	-21.459	-21.459	-21.459
		Mt	0.00	0.00	0.00
		My	-8.55	-5.86	-3.18
		Mz	0.03	0.03	0.03
	TB-450-B1	N	-24.312	-24.312	-24.312
		Vy	-0.040	-0.040	-0.040
		Vz	-27.254	-27.254	-27.254
		Mt	0.00	0.00	0.00
		My	-10.86	-7.45	-4.04
		Mz	0.03	0.04	0.04
	TB-450-B2	N	-57.263	-57.263	-57.263
		Vy	0.008	0.008	0.008
		Vz	-63.958	-63.958	-63.958
		Mt	0.00	0.00	0.00
		My	-25.48	-17.48	-9.49
		Mz	0.14	0.14	0.14

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-C1	N	-94.560	-94.560	-94.560
		Vy	0.038	0.038	0.038
		Vz	-105.573	-105.573	-105.573
		Mt	0.00	0.00	0.00
		My	-41.83	-28.63	-15.43
		Mz	0.18	0.17	0.17
	TB-450-C2	N	-40.057	-40.057	-40.057
		Vy	-0.042	-0.042	-0.042
		Vz	-44.840	-44.840	-44.840
		Mt	-0.02	-0.02	-0.02
		My	-17.77	-12.17	-6.56
		Mz	0.03	0.04	0.04
	TB-450-D1	N	-54.218	-54.218	-54.218
		Vy	-0.003	-0.003	-0.003
		Vz	-59.504	-59.504	-59.504
		Mt	-0.02	-0.02	-0.02
		My	-19.17	-11.73	-4.30
		Mz	0.02	0.02	0.02
	TB-450-D2	N	-127.978	-127.978	-127.978
		Vy	0.029	0.029	0.029
		Vz	-140.078	-140.078	-140.078
		Mt	-0.01	-0.01	-0.01
		My	-45.07	-27.56	-10.06
		Mz	0.20	0.20	0.20
	TB-450-E1	N	-26.995	-26.995	-26.995
		Vy	0.088	0.088	0.088
		Vz	-14.000	-14.000	-14.000
		Mt	0.00	0.00	0.00
		My	0.11	1.86	3.61
		Mz	0.01	0.00	-0.01
	TB-450-E2	N	-75.457	-75.457	-75.457
		Vy	0.206	0.206	0.206
		Vz	-31.970	-31.970	-31.970
		Mt	0.03	0.03	0.03

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	2.79	6.79	10.78
		Mz	0.07	0.05	0.02

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N51/N179	Peso próprio	N	-257.603	-257.598	-257.593
		Vy	-0.255	-0.255	-0.255
		Vz	-27.714	-27.414	-27.114
		Mt	-1.10	-1.10	-1.10
		My	12.73	16.18	19.59
		Mz	-0.24	-0.21	-0.17
	Guarda Corpo	N	-73.219	-73.219	-73.219
		Vy	-0.009	-0.009	-0.009
		Vz	-8.503	-8.503	-8.503
		Mt	0.03	0.03	0.03
		My	3.42	4.48	5.55
		Mz	0.06	0.06	0.06
	Laje	N	-543.441	-543.441	-543.441
		Vy	-0.117	-0.117	-0.117
		Vz	-62.465	-62.465	-62.465
		Mt	0.20	0.20	0.20
		My	25.22	33.03	40.84
		Mz	0.49	0.51	0.52
	Pavimentação	N	-298.476	-298.476	-298.476
		Vy	-0.068	-0.068	-0.068
		Vz	-34.564	-34.564	-34.564
		Mt	0.11	0.11	0.11
		My	13.95	18.28	22.60
		Mz	0.27	0.28	0.29
	Recapeamento	N	-134.852	-134.852	-134.852
		Vy	-0.030	-0.030	-0.030
		Vz	-15.499	-15.499	-15.499

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.05	0.05	0.05
		My	6.26	8.20	10.13
		Mz	0.12	0.13	0.13
	Vento 0	N	39.916	39.916	39.916
		Vy	6.318	6.318	6.318
		Vz	3.943	3.943	3.943
		Mt	19.51	19.51	19.51
		My	-11.42	-11.92	-12.41
		Mz	-17.69	-18.48	-19.27
	Vento 180	N	-41.327	-41.296	-41.265
		Vy	-2.192	-2.300	-2.408
		Vz	-3.200	-3.201	-3.201
		Mt	-18.53	-18.53	-18.53
		My	11.15	11.55	11.95
		Mz	18.19	18.47	18.76
	Multidão (Passeio)	N	-95.053	-95.053	-95.053
		Vy	-0.002	-0.002	-0.002
		Vz	-11.167	-11.167	-11.167
		Mt	0.04	0.04	0.04
		My	4.47	5.87	7.26
		Mz	0.06	0.06	0.06
	Multidão - TB450	N	-309.857	-309.857	-309.857
		Vy	-0.094	-0.094	-0.094
		Vz	-35.301	-35.301	-35.301
		Mt	0.11	0.11	0.11
		My	14.31	18.72	23.14
		Mz	0.31	0.33	0.34
	TB-450-A1	N	-18.247	-18.247	-18.247
		Vy	0.088	0.088	0.088
		Vz	-10.405	-10.405	-10.405
		Mt	0.24	0.24	0.24
		My	-0.42	0.88	2.18
		Mz	-0.19	-0.20	-0.21
	TB-450-A2	N	-44.932	-44.932	-44.932

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	0.101	0.101	0.101
		Vz	-24.902	-24.902	-24.902
		Mt	0.25	0.25	0.25
		My	-0.82	2.29	5.40
		Mz	-0.16	-0.17	-0.19
	TB-450-B1	N	-55.536	-55.536	-55.536
		Vy	0.007	0.007	0.007
		Vz	-30.714	-30.714	-30.714
		Mt	0.04	0.04	0.04
		My	-0.23	3.61	7.45
		Mz	0.02	0.02	0.02
	TB-450-B2	N	-133.289	-133.289	-133.289
		Vy	0.043	0.043	0.043
		Vz	-72.419	-72.419	-72.419
		Mt	0.04	0.04	0.04
		My	-0.59	8.46	17.51
		Mz	0.12	0.12	0.11
	TB-450-C1	N	-198.286	-198.286	-198.286
		Vy	-0.189	-0.189	-0.189
		Vz	-51.388	-51.388	-51.388
		Mt	0.24	0.24	0.24
		My	20.07	26.49	32.92
		Mz	0.04	0.06	0.09
	TB-450-C2	N	-82.600	-82.600	-82.600
		Vy	-0.197	-0.197	-0.197
		Vz	-21.316	-21.316	-21.316
		Mt	-0.14	-0.14	-0.14
		My	8.42	11.09	13.75
		Mz	0.33	0.36	0.38
	TB-450-D1	N	-65.925	-65.925	-65.925
		Vy	0.067	0.067	0.067
		Vz	24.536	24.536	24.536
		Mt	0.04	0.04	0.04
		My	3.67	0.60	-2.47

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.03	0.02	0.02
	TB-450-D2	N	-157.563	-157.563	-157.563
		Vy	-0.034	-0.034	-0.034
		Vz	58.312	58.312	58.312
		Mt	0.02	0.02	0.02
		My	8.56	1.27	-6.02
		Mz	0.12	0.12	0.13
	TB-450-E1	N	-19.950	-19.950	-19.950
		Vy	-0.014	-0.014	-0.014
		Vz	8.322	8.322	8.322
		Mt	-0.09	-0.09	-0.09
		My	0.01	-1.03	-2.07
		Mz	0.11	0.11	0.11
	TB-450-E2	N	-55.462	-55.462	-55.462
		Vy	-0.070	-0.070	-0.070
		Vz	23.070	23.070	23.070
		Mt	-0.22	-0.22	-0.22
		My	-0.07	-2.95	-5.84
		Mz	0.28	0.29	0.30

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N179/N16	Peso próprio	N	-260.885	-260.877	-260.870	-260.862	-260.854	-260.847	-260.839
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	-2.474	-2.026	-1.578	-1.130	-0.683	-0.235	0.213
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	16.46	16.88	17.22	17.47	17.64	17.72	17.73
		Mz	-0.05	-0.04	-0.03	-0.02	-0.02	-0.01	0.00
	Guarda Corpo	N	-74.445	-74.445	-74.445	-74.445	-74.445	-74.445	-74.445
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.54	4.53	4.53	4.53	4.53	4.53	4.53

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mz	0.06	0.06	0.06	0.06	0.06	0.06	0.06
	Laje	N	-552.470	-552.470	-552.470	-552.470	-552.470	-552.470	-552.470
		Vy	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060
		Vz	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	33.34	33.34	33.33	33.32	33.32	33.31	33.30
		Mz	0.49	0.50	0.52	0.53	0.54	0.55	0.56
	Pavimentação	N	-303.475	-303.475	-303.475	-303.475	-303.475	-303.475	-303.475
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.44	18.43	18.43	18.43	18.42	18.42	18.42
		Mz	0.27	0.28	0.29	0.29	0.30	0.31	0.31
	Recapeamento	N	-137.092	-137.092	-137.092	-137.092	-137.092	-137.092	-137.092
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.27	8.27	8.27	8.27	8.27	8.27	8.26
		Mz	0.12	0.13	0.13	0.13	0.14	0.14	0.14
	Vento 0	N	41.338	41.338	41.338	41.338	41.338	41.338	41.338
		Vy	2.657	2.657	2.657	2.657	2.657	2.657	2.657
		Vz	-2.642	-2.642	-2.642	-2.642	-2.642	-2.642	-2.642
		Mt	0.50	0.50	0.50	0.50	0.50	0.50	0.50
		My	-9.82	-9.32	-8.83	-8.34	-7.85	-7.35	-6.86
		Mz	-21.50	-21.99	-22.49	-22.99	-23.48	-23.98	-24.47
	Vento 180	N	-41.894	-41.847	-41.801	-41.754	-41.708	-41.662	-41.615
		Vy	-1.570	-1.731	-1.892	-2.053	-2.215	-2.376	-2.537
		Vz	3.228	3.227	3.226	3.225	3.224	3.224	3.223
		Mt	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
		My	10.35	9.75	9.14	8.54	7.94	7.34	6.74
		Mz	20.97	21.28	21.61	21.98	22.38	22.81	23.27
	Multidão (Passeio)	N	-96.660	-96.660	-96.660	-96.660	-96.660	-96.660	-96.660
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		My	5.95	5.95	5.95	5.94	5.94	5.94	5.93
		Mz	0.06	0.06	0.06	0.06	0.06	0.06	0.06
	Multidão - TB450	N	-314.971	-314.971	-314.971	-314.971	-314.971	-314.971	-314.971
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.85	18.85	18.85	18.85	18.85	18.85	18.85
		Mz	0.32	0.33	0.34	0.35	0.36	0.36	0.37
	TB-450-A1	N	-20.169	-20.169	-20.169	-20.169	-20.169	-20.169	-20.169
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.37	-0.32	-0.28	-0.23	-0.18	-0.14	-0.09
		Mz	-0.24	-0.25	-0.26	-0.27	-0.27	-0.28	-0.29
	TB-450-A2	N	-49.545	-49.545	-49.545	-49.545	-49.545	-49.545	-49.545
		Vy	0.055	0.055	0.055	0.055	0.055	0.055	0.055
		Vz	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.71	-0.61	-0.51	-0.41	-0.31	-0.21	-0.11
		Mz	-0.21	-0.22	-0.23	-0.24	-0.25	-0.27	-0.28
	TB-450-B1	N	-61.005	-61.005	-61.005	-61.005	-61.005	-61.005	-61.005
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.20	0.52	0.84	1.17	1.49	1.81	2.13
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-B2	N	-146.182	-146.182	-146.182	-146.182	-146.182	-146.182	-146.182
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	-4.091	-4.091	-4.091	-4.091	-4.091	-4.091	-4.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.41	1.17	1.93	2.70	3.46	4.22	4.98
		Mz	0.11	0.10	0.09	0.08	0.08	0.07	0.06
	TB-450-C1	N	-205.927	-205.927	-205.927	-205.927	-205.927	-205.927	-205.927
		Vy	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143
		Vz	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.08	26.09	26.10	26.11	26.12	26.12	26.13
		Mz	0.05	0.08	0.11	0.13	0.16	0.19	0.21
	TB-450-C2	N	-85.818	-85.818	-85.818	-85.818	-85.818	-85.818	-85.818
		Vy	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093
		Vz	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	10.74	10.75	10.76	10.77	10.78	10.79	10.81
		Mz	0.40	0.41	0.43	0.45	0.47	0.48	0.50
	TB-450-D1	N	-61.326	-61.326	-61.326	-61.326	-61.326	-61.326	-61.326
		Vy	0.060	0.060	0.060	0.060	0.060	0.060	0.060
		Vz	1.752	1.752	1.752	1.752	1.752	1.752	1.752
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.08	3.76	3.43	3.10	2.78	2.45	2.12
		Mz	0.01	0.00	-0.01	-0.02	-0.03	-0.04	-0.06
	TB-450-D2	N	-146.636	-146.636	-146.636	-146.636	-146.636	-146.636	-146.636
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	4.147	4.147	4.147	4.147	4.147	4.147	4.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.54	8.77	7.99	7.22	6.45	5.67	4.90
		Mz	0.13	0.13	0.14	0.15	0.15	0.16	0.17
	TB-450-E1	N	-18.326	-18.326	-18.326	-18.326	-18.326	-18.326	-18.326
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.211	0.211	0.211	0.211	0.211	0.211	0.211
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.26	0.22	0.18	0.14	0.10	0.06	0.03
		Mz	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	TB-450-E2	N	-50.958	-50.958	-50.958	-50.958	-50.958	-50.958	-50.958
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	0.572	0.572	0.572	0.572	0.572	0.572	0.572
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.63	0.53	0.42	0.31	0.21	0.10	-0.01
		Mz	0.32	0.33	0.33	0.34	0.34	0.35	0.35

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N16/N177	Peso próprio	N	-260.839	-260.831	-260.824	-260.816	-260.808	-260.800	-260.793
		Vy	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vz	0.213	0.661	1.109	1.557	2.005	2.453	2.901
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	17.73	17.64	17.48	17.23	16.90	16.48	15.98
		Mz	0.00	0.01	0.02	0.02	0.03	0.04	0.05
	Guarda Corpo	N	-74.445	-74.445	-74.445	-74.445	-74.445	-74.445	-74.445
		Vy	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		Vz	0.010	0.010	0.010	0.010	0.010	0.010	0.010
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.53	4.52	4.52	4.52	4.52	4.52	4.52
		Mz	0.06	0.06	0.06	0.07	0.07	0.07	0.07
	Laje	N	-552.470	-552.470	-552.470	-552.470	-552.470	-552.470	-552.470
		Vy	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060	-0.060
		Vz	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	33.30	33.30	33.29	33.28	33.28	33.27	33.26
		Mz	0.56	0.57	0.58	0.59	0.61	0.62	0.63
	Pavimentação	N	-303.475	-303.475	-303.475	-303.475	-303.475	-303.475	-303.475
		Vy	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035	-0.035
		Vz	0.017	0.017	0.017	0.017	0.017	0.017	0.017
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.42	18.41	18.41	18.41	18.41	18.40	18.40
		Mz	0.31	0.32	0.33	0.33	0.34	0.34	0.35
	Recapeamento	N	-137.092	-137.092	-137.092	-137.092	-137.092	-137.092	-137.092
		Vy	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015
		Vz	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.26	8.26	8.26	8.26	8.26	8.26	8.25
		Mz	0.14	0.14	0.15	0.15	0.15	0.16	0.16
	Vento 0	N	41.338	41.338	41.338	41.338	41.338	41.338	41.338
		Vy	2.657	2.657	2.657	2.657	2.657	2.657	2.657
		Vz	-2.642	-2.642	-2.642	-2.642	-2.642	-2.642	-2.642
		Mt	0.50	0.50	0.50	0.50	0.50	0.50	0.50
		My	-6.86	-6.37	-5.88	-5.38	-4.89	-4.40	-3.91
		Mz	-24.47	-24.97	-25.46	-25.96	-26.45	-26.95	-27.44

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
	Vento 180	N	-41.615	-41.569	-41.522	-41.476	-41.429	-41.383	-41.336
		Vy	-2.537	-2.698	-2.860	-3.021	-3.182	-3.343	-3.504
		Vz	3.223	3.222	3.221	3.220	3.220	3.219	3.218
		Mt	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
		My	6.74	6.14	5.54	4.94	4.34	3.74	3.14
		Mz	23.27	23.75	24.27	24.82	25.40	26.01	26.65
	Multidão (Passeio)	N	-96.660	-96.660	-96.660	-96.660	-96.660	-96.660	-96.660
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.93	5.93	5.92	5.92	5.92	5.91	5.91
		Mz	0.06	0.06	0.06	0.06	0.06	0.06	0.06
	Multidão - TB450	N	-314.971	-314.971	-314.971	-314.971	-314.971	-314.971	-314.971
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.85	18.85	18.85	18.85	18.85	18.85	18.85
		Mz	0.37	0.38	0.39	0.40	0.41	0.42	0.42
	TB-450-A1	N	-20.169	-20.169	-20.169	-20.169	-20.169	-20.169	-20.169
		Vy	0.044	0.044	0.044	0.044	0.044	0.044	0.044
		Vz	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.09	-0.05	0.00	0.05	0.09	0.14	0.18
		Mz	-0.29	-0.30	-0.31	-0.32	-0.32	-0.33	-0.34
	TB-450-A2	N	-49.545	-49.545	-49.545	-49.545	-49.545	-49.545	-49.545
		Vy	0.055	0.055	0.055	0.055	0.055	0.055	0.055
		Vz	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.11	-0.01	0.10	0.20	0.30	0.40	0.50
		Mz	-0.28	-0.29	-0.30	-0.31	-0.32	-0.33	-0.34
	TB-450-B1	N	-61.005	-61.005	-61.005	-61.005	-61.005	-61.005	-61.005
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733	-1.733
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.13	2.46	2.78	3.10	3.43	3.75	4.07

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mz	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	TB-450-B2	N	-146.182	-146.182	-146.182	-146.182	-146.182	-146.182	-146.182
		Vy	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vz	-4.091	-4.091	-4.091	-4.091	-4.091	-4.091	-4.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.98	5.75	6.51	7.27	8.03	8.80	9.56
		Mz	0.06	0.06	0.05	0.04	0.04	0.03	0.02
	TB-450-C1	N	-205.927	-205.927	-205.927	-205.927	-205.927	-205.927	-205.927
		Vy	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143	-0.143
		Vz	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.13	26.14	26.15	26.16	26.16	26.17	26.18
		Mz	0.21	0.24	0.27	0.29	0.32	0.35	0.37
	TB-450-C2	N	-85.818	-85.818	-85.818	-85.818	-85.818	-85.818	-85.818
		Vy	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093
		Vz	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	10.81	10.82	10.83	10.84	10.85	10.86	10.87
		Mz	0.50	0.52	0.53	0.55	0.57	0.59	0.60
	TB-450-D1	N	-61.326	-61.326	-61.326	-61.326	-61.326	-61.326	-61.326
		Vy	0.060	0.060	0.060	0.060	0.060	0.060	0.060
		Vz	1.752	1.752	1.752	1.752	1.752	1.752	1.752
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.12	1.80	1.47	1.14	0.82	0.49	0.16
		Mz	-0.06	-0.07	-0.08	-0.09	-0.10	-0.11	-0.12
	TB-450-D2	N	-146.636	-146.636	-146.636	-146.636	-146.636	-146.636	-146.636
		Vy	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
		Vz	4.147	4.147	4.147	4.147	4.147	4.147	4.147
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.90	4.13	3.35	2.58	1.81	1.03	0.26
		Mz	0.17	0.18	0.18	0.19	0.20	0.20	0.21
	TB-450-E1	N	-18.326	-18.326	-18.326	-18.326	-18.326	-18.326	-18.326
		Vy	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		Vz	0.211	0.211	0.211	0.211	0.211	0.211	0.211
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		My	0.03	-0.01	-0.05	-0.09	-0.13	-0.17	-0.21
		Mz	0.12	0.12	0.12	0.12	0.12	0.11	0.11
	TB-450-E2	N	-50.958	-50.958	-50.958	-50.958	-50.958	-50.958	-50.958
		Vy	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
		Vz	0.572	0.572	0.572	0.572	0.572	0.572	0.572
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.01	-0.11	-0.22	-0.33	-0.43	-0.54	-0.65
		Mz	0.35	0.36	0.36	0.37	0.37	0.38	0.38

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N177/N49	Peso próprio	N	-256.790	-256.784	-256.779
		Vy	-0.047	-0.047	-0.047
		Vz	26.949	27.250	27.550
		Mt	-0.12	-0.12	-0.12
		My	19.19	15.80	12.37
		Mz	0.06	0.07	0.07
	Guarda Corpo	N	-72.943	-72.943	-72.943
		Vy	-0.001	-0.001	-0.001
		Vz	8.434	8.434	8.434
		Mt	-0.03	-0.03	-0.03
		My	5.60	4.54	3.49
		Mz	0.07	0.07	0.07
	Laje	N	-541.625	-541.625	-541.625
		Vy	-0.015	-0.015	-0.015
		Vz	60.970	60.970	60.970
		Mt	-0.30	-0.30	-0.30
		My	41.05	33.43	25.81
		Mz	0.68	0.68	0.68
	Pavimentação	N	-297.483	-297.483	-297.483
		Vy	-0.009	-0.009	-0.009
		Vz	33.679	33.679	33.679
		Mt	-0.17	-0.17	-0.17

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		My	22.70	18.49	14.28
		Mz	0.38	0.38	0.38
	Recapeamento	N	-134.405	-134.405	-134.405
		Vy	-0.004	-0.004	-0.004
		Vz	15.108	15.108	15.108
		Mt	-0.08	-0.08	-0.08
		My	10.18	8.30	6.41
		Mz	0.17	0.17	0.17
	Vento 0	N	41.470	41.470	41.470
		Vy	2.651	2.651	2.651
		Vz	-2.143	-2.143	-2.143
		Mt	1.21	1.21	1.21
		My	-3.92	-3.65	-3.38
		Mz	-27.57	-27.90	-28.23
	Vento 180	N	-40.737	-40.706	-40.675
		Vy	-6.212	-6.320	-6.428
		Vz	2.485	2.484	2.484
		Mt	-1.56	-1.56	-1.56
		My	4.08	3.77	3.46
		Mz	26.71	27.49	28.29
	Multidão (Passeio)	N	-94.647	-94.647	-94.647
		Vy	0.000	0.000	0.000
		Vz	11.287	11.287	11.287
		Mt	-0.02	-0.02	-0.02
		My	7.36	5.95	4.54
		Mz	0.07	0.07	0.07
	Multidão - TB450	N	-308.948	-308.948	-308.948
		Vy	-0.012	-0.012	-0.012
		Vz	33.900	33.900	33.900
		Mt	-0.23	-0.23	-0.23
		My	23.17	18.93	14.69
		Mz	0.46	0.46	0.46
	TB-450-A1	N	-22.328	-22.328	-22.328
		Vy	0.044	0.044	0.044

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vz	-9.475	-9.475	-9.475
		Mt	0.02	0.02	0.02
		My	-2.54	-1.36	-0.17
		Mz	-0.34	-0.35	-0.35
	TB-450-A2	N	-54.706	-54.706	-54.706
		Vy	0.055	0.055	0.055
		Vz	-22.605	-22.605	-22.605
		Mt	0.02	0.02	0.02
		My	-6.01	-3.18	-0.36
		Mz	-0.34	-0.35	-0.35
	TB-450-B1	N	-66.371	-66.371	-66.371
		Vy	0.002	0.002	0.002
		Vz	-24.536	-24.536	-24.536
		Mt	0.00	0.00	0.00
		My	-2.63	0.44	3.51
		Mz	0.01	0.01	0.01
	TB-450-B2	N	-158.849	-158.849	-158.849
		Vy	0.037	0.037	0.037
		Vz	-57.920	-57.920	-57.920
		Mt	0.01	0.01	0.01
		My	-6.26	0.98	8.22
		Mz	0.02	0.02	0.01
	TB-450-C1	N	-197.153	-197.153	-197.153
		Vy	-0.099	-0.099	-0.099
		Vz	48.444	48.444	48.444
		Mt	-0.29	-0.29	-0.29
		My	32.79	26.73	20.68
		Mz	0.42	0.43	0.45
	TB-450-C2	N	-82.538	-82.538	-82.538
		Vy	-0.055	-0.055	-0.055
		Vz	18.228	18.228	18.228
		Mt	-0.29	-0.29	-0.29
		My	13.31	11.03	8.75
		Mz	0.65	0.66	0.66

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
	TB-450-D1	N	-54.869	-54.869	-54.869
		Vy	0.060	0.060	0.060
		Vz	30.777	30.777	30.777
		Mt	0.00	0.00	0.00
		My	7.65	3.81	-0.04
		Mz	-0.12	-0.13	-0.14
	TB-450-D2	N	-131.372	-131.372	-131.372
		Vy	-0.037	-0.037	-0.037
		Vz	72.739	72.739	72.739
		Mt	0.00	0.00	0.00
		My	17.97	8.88	-0.21
		Mz	0.21	0.21	0.22
	TB-450-E1	N	-16.307	-16.307	-16.307
		Vy	0.003	0.003	0.003
		Vz	9.256	9.256	9.256
		Mt	-0.01	-0.01	-0.01
		My	2.13	0.98	-0.18
		Mz	0.12	0.12	0.11
	TB-450-E2	N	-45.400	-45.400	-45.400
		Vy	-0.027	-0.027	-0.027
		Vz	25.460	25.460	25.460
		Mt	-0.01	-0.01	-0.01
		My	5.81	2.63	-0.55
		Mz	0.38	0.39	0.39

Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N50/N232	Peso próprio	N	-257.765	-257.760	-257.755
		Vy	-0.118	-0.118	-0.118
		Vz	-27.510	-27.210	-26.910
		Mt	1.16	1.16	1.16
		My	11.97	15.39	18.77

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.01	0.02	0.04
	Guarda Corpo	N	-73.177	-73.177	-73.177
		Vy	-0.040	-0.040	-0.040
		Vz	-8.321	-8.321	-8.321
		Mt	-0.02	-0.02	-0.02
		My	3.44	4.48	5.52
		Mz	-0.11	-0.10	-0.10
	Laje	N	-543.223	-543.223	-543.223
		Vy	-0.258	-0.258	-0.258
		Vz	-60.106	-60.106	-60.106
		Mt	-0.15	-0.15	-0.15
		My	25.44	32.95	40.47
		Mz	-0.88	-0.85	-0.81
	Pavimentação	N	-297.314	-297.314	-297.314
		Vy	-0.139	-0.139	-0.139
		Vz	-32.932	-32.932	-32.932
		Mt	-0.08	-0.08	-0.08
		My	13.97	18.09	22.20
		Mz	-0.49	-0.47	-0.45
	Recapeamento	N	-134.800	-134.800	-134.800
		Vy	-0.063	-0.063	-0.063
		Vz	-14.894	-14.894	-14.894
		Mt	-0.04	-0.04	-0.04
		My	6.31	8.18	10.04
		Mz	-0.22	-0.21	-0.20
	Vento 0	N	-43.720	-43.751	-43.782
		Vy	2.055	2.163	2.272
		Vz	2.105	2.106	2.106
		Mt	18.50	18.50	18.50
		My	-0.09	-0.35	-0.62
		Mz	-18.29	-18.55	-18.83
	Vento 180	N	44.597	44.597	44.597
		Vy	-6.195	-6.195	-6.195
		Vz	-2.463	-2.463	-2.463

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	-19.50	-19.50	-19.50
		My	0.32	0.63	0.94
		Mz	17.81	18.58	19.36
	Multidão (Passeio)	N	-94.981	-94.981	-94.981
		Vy	-0.061	-0.061	-0.061
		Vz	-11.146	-11.146	-11.146
		Mt	-0.03	-0.03	-0.03
		My	4.50	5.89	7.28
		Mz	-0.13	-0.12	-0.11
	Multidão - TB450	N	-309.783	-309.783	-309.783
		Vy	-0.125	-0.125	-0.125
		Vz	-33.393	-33.393	-33.393
		Mt	-0.08	-0.08	-0.08
		My	14.45	18.63	22.80
		Mz	-0.54	-0.52	-0.51
	TB-450-A1	N	-46.072	-46.072	-46.072
		Vy	0.058	0.058	0.058
		Vz	-25.282	-25.282	-25.282
		Mt	0.23	0.23	0.23
		My	-0.72	2.44	5.60
		Mz	-0.29	-0.30	-0.31
	TB-450-A2	N	-19.382	-19.382	-19.382
		Vy	0.061	0.061	0.061
		Vz	-10.805	-10.805	-10.805
		Mt	0.20	0.20	0.20
		My	-0.32	1.03	2.38
		Mz	-0.21	-0.22	-0.23
	TB-450-B1	N	-133.167	-133.167	-133.167
		Vy	-0.082	-0.082	-0.082
		Vz	-72.367	-72.367	-72.367
		Mt	0.01	0.01	0.01
		My	-0.60	8.45	17.50
		Mz	-0.24	-0.23	-0.22
	TB-450-B2	N	-55.451	-55.451	-55.451

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.028	-0.028	-0.028
		Vz	-30.720	-30.720	-30.720
		Mt	-0.07	-0.07	-0.07
		My	-0.20	3.64	7.48
		Mz	0.02	0.02	0.02
	TB-450-C1	N	-83.030	-83.030	-83.030
		Vy	0.061	0.061	0.061
		Vz	-18.226	-18.226	-18.226
		Mt	0.16	0.16	0.16
		My	8.49	10.77	13.04
		Mz	-0.45	-0.46	-0.47
	TB-450-C2	N	-198.620	-198.620	-198.620
		Vy	-0.117	-0.117	-0.117
		Vz	-48.278	-48.278	-48.278
		Mt	-0.18	-0.18	-0.18
		My	20.32	26.35	32.39
		Mz	-0.41	-0.40	-0.38
	TB-450-D1	N	-157.474	-157.474	-157.474
		Vy	-0.057	-0.057	-0.057
		Vz	58.301	58.301	58.301
		Mt	-0.06	-0.06	-0.06
		My	8.59	1.30	-5.99
		Mz	-0.15	-0.15	-0.14
	TB-450-D2	N	-65.896	-65.896	-65.896
		Vy	-0.078	-0.078	-0.078
		Vz	24.586	24.586	24.586
		Mt	-0.02	-0.02	-0.02
		My	3.67	0.59	-2.48
		Mz	-0.07	-0.06	-0.05
	TB-450-E1	N	-46.514	-46.514	-46.514
		Vy	-0.042	-0.042	-0.042
		Vz	19.479	19.479	19.479
		Mt	-0.13	-0.13	-0.13
		My	-0.14	-2.57	-5.01

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	0.07	0.07	0.08
	TB-450-E2	N	-22.187	-22.187	-22.187
		Vy	-0.088	-0.088	-0.088
		Vz	9.431	9.431	9.431
		Mt	-0.24	-0.24	-0.24
		My	-0.05	-1.22	-2.40
		Mz	0.20	0.21	0.22

Esforços em barras, por hipóteses/ações								
Barra	Hipótese	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N232/N169	Peso próprio	N	-260.940	-260.932	-260.924	-260.916	-260.909	-260.901	-260.893
		Vy	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339
		Vz	-2.741	-2.293	-1.845	-1.397	-0.949	-0.501	-0.054
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	15.85	16.32	16.71	17.01	17.23	17.36	17.42
		Mz	-0.09	-0.03	0.03	0.10	0.16	0.22	0.29
	Guarda Corpo	N	-74.375	-74.375	-74.375	-74.375	-74.375	-74.375	-74.375
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.55	4.55	4.54	4.53	4.53	4.52	4.51
		Mz	-0.10	-0.09	-0.08	-0.07	-0.06	-0.05	-0.05
	Laje	N	-551.858	-551.858	-551.858	-551.858	-551.858	-551.858	-551.858
		Vy	-0.329	-0.329	-0.329	-0.329	-0.329	-0.329	-0.329
		Vz	0.298	0.298	0.298	0.298	0.298	0.298	0.298
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	33.49	33.43	33.38	33.32	33.26	33.21	33.15
		Mz	-0.79	-0.73	-0.67	-0.61	-0.55	-0.49	-0.43
	Pavimentação	N	-302.045	-302.045	-302.045	-302.045	-302.045	-302.045	-302.045
		Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
		Vz	0.165	0.165	0.165	0.165	0.165	0.165	0.165
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.38	18.35	18.32	18.29	18.25	18.22	18.19
		Mz	-0.44	-0.41	-0.37	-0.34	-0.31	-0.27	-0.24

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
	Recapeamento	N	-136.939	-136.939	-136.939	-136.939	-136.939	-136.939	-136.939
		Vy	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vz	0.074	0.074	0.074	0.074	0.074	0.074	0.074
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.31	8.29	8.28	8.27	8.25	8.24	8.23
		Mz	-0.20	-0.18	-0.17	-0.15	-0.14	-0.12	-0.11
	Vento 0	N	-43.642	-43.689	-43.735	-43.781	-43.828	-43.874	-43.921
		Vy	1.372	1.533	1.694	1.855	2.016	2.178	2.339
		Vz	-1.671	-1.670	-1.670	-1.669	-1.668	-1.667	-1.666
		Mt	0.46	0.46	0.46	0.46	0.46	0.46	0.46
		My	0.04	0.35	0.66	0.97	1.28	1.59	1.91
		Mz	-21.03	-21.30	-21.60	-21.93	-22.30	-22.69	-23.11
	Vento 180	N	43.718	43.718	43.718	43.718	43.718	43.718	43.718
		Vy	-2.469	-2.469	-2.469	-2.469	-2.469	-2.469	-2.469
		Vz	1.078	1.078	1.078	1.078	1.078	1.078	1.078
		Mt	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
		My	-0.67	-0.87	-1.07	-1.27	-1.47	-1.67	-1.87
		Mz	21.59	22.05	22.51	22.97	23.43	23.89	24.35
	Multidão (Passeio)	N	-96.588	-96.588	-96.588	-96.588	-96.588	-96.588	-96.588
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	5.97	5.96	5.96	5.95	5.94	5.93	5.92
		Mz	-0.11	-0.10	-0.09	-0.07	-0.06	-0.05	-0.04
	Multidão - TB450	N	-314.572	-314.572	-314.572	-314.572	-314.572	-314.572	-314.572
		Vy	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183
		Vz	0.186	0.186	0.186	0.186	0.186	0.186	0.186
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.95	18.91	18.88	18.84	18.81	18.77	18.74
		Mz	-0.50	-0.46	-0.43	-0.39	-0.36	-0.33	-0.29
	TB-450-A1	N	-50.762	-50.762	-50.762	-50.762	-50.762	-50.762	-50.762
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.63	-0.53	-0.43	-0.33	-0.24	-0.14	-0.04

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mz	-0.33	-0.33	-0.34	-0.34	-0.34	-0.35	-0.35
	TB-450-A2	N	-21.385	-21.385	-21.385	-21.385	-21.385	-21.385	-21.385
		Vy	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Vz	-0.226	-0.226	-0.226	-0.226	-0.226	-0.226	-0.226
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.27	-0.23	-0.19	-0.14	-0.10	-0.06	-0.02
		Mz	-0.25	-0.25	-0.26	-0.26	-0.27	-0.27	-0.27
	TB-450-B1	N	-146.054	-146.054	-146.054	-146.054	-146.054	-146.054	-146.054
		Vy	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vz	-4.080	-4.080	-4.080	-4.080	-4.080	-4.080	-4.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.40	1.16	1.92	2.68	3.44	4.20	4.96
		Mz	-0.22	-0.20	-0.19	-0.17	-0.16	-0.14	-0.13
	TB-450-B2	N	-60.923	-60.923	-60.923	-60.923	-60.923	-60.923	-60.923
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	-1.724	-1.724	-1.724	-1.724	-1.724	-1.724	-1.724
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.22	0.54	0.86	1.18	1.50	1.83	2.15
		Mz	0.03	0.03	0.04	0.04	0.04	0.05	0.05
	TB-450-C1	N	-85.689	-85.689	-85.689	-85.689	-85.689	-85.689	-85.689
		Vy	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vz	0.128	0.128	0.128	0.128	0.128	0.128	0.128
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	10.79	10.77	10.74	10.72	10.70	10.67	10.65
		Mz	-0.48	-0.47	-0.46	-0.45	-0.44	-0.43	-0.42
	TB-450-C2	N	-205.718	-205.718	-205.718	-205.718	-205.718	-205.718	-205.718
		Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
		Vz	0.201	0.201	0.201	0.201	0.201	0.201	0.201
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.28	26.24	26.20	26.16	26.13	26.09	26.05
		Mz	-0.36	-0.33	-0.29	-0.26	-0.23	-0.19	-0.16
	TB-450-D1	N	-146.550	-146.550	-146.550	-146.550	-146.550	-146.550	-146.550
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	4.161	4.161	4.161	4.161	4.161	4.161	4.161
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		My	9.57	8.79	8.02	7.24	6.47	5.69	4.91
		Mz	-0.13	-0.12	-0.12	-0.11	-0.10	-0.09	-0.08
	TB-450-D2	N	-61.290	-61.290	-61.290	-61.290	-61.290	-61.290	-61.290
		Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
		Vz	1.757	1.757	1.757	1.757	1.757	1.757	1.757
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.08	3.75	3.42	3.09	2.77	2.44	2.11
		Mz	-0.04	-0.03	-0.02	0.00	0.01	0.02	0.04
	TB-450-E1	N	-42.708	-42.708	-42.708	-42.708	-42.708	-42.708	-42.708
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	0.472	0.472	0.472	0.472	0.472	0.472	0.472
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.47	0.38	0.29	0.20	0.11	0.03	-0.06
		Mz	0.09	0.10	0.10	0.10	0.11	0.11	0.11
	TB-450-E2	N	-20.347	-20.347	-20.347	-20.347	-20.347	-20.347	-20.347
		Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vz	0.240	0.240	0.240	0.240	0.240	0.240	0.240
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	0.24	0.19	0.15	0.10	0.06	0.02	-0.03
		Mz	0.25	0.26	0.27	0.27	0.28	0.29	0.30

Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N169/N233	Peso próprio	N	-260.893	-260.886	-260.878	-260.870	-260.863	-260.855	-260.847
		Vy	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339
		Vz	-0.054	0.394	0.842	1.290	1.738	2.186	2.634
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	17.42	17.38	17.27	17.07	16.79	16.42	15.97
		Mz	0.29	0.35	0.41	0.48	0.54	0.60	0.67
	Guarda Corpo	N	-74.375	-74.375	-74.375	-74.375	-74.375	-74.375	-74.375
		Vy	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046	-0.046
		Vz	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.51	4.51	4.50	4.49	4.48	4.48	4.47

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mz	-0.05	-0.04	-0.03	-0.02	-0.01	0.00	0.01
	Laje	N	-551.858	-551.858	-551.858	-551.858	-551.858	-551.858	-551.858
		Vy	-0.329	-0.329	-0.329	-0.329	-0.329	-0.329	-0.329
		Vz	0.298	0.298	0.298	0.298	0.298	0.298	0.298
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	33.15	33.10	33.04	32.99	32.93	32.88	32.82
		Mz	-0.43	-0.36	-0.30	-0.24	-0.18	-0.12	-0.06
	Pavimentação	N	-302.045	-302.045	-302.045	-302.045	-302.045	-302.045	-302.045
		Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
		Vz	0.165	0.165	0.165	0.165	0.165	0.165	0.165
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.19	18.16	18.13	18.10	18.07	18.04	18.01
		Mz	-0.24	-0.21	-0.17	-0.14	-0.11	-0.07	-0.04
	Recapeamento	N	-136.939	-136.939	-136.939	-136.939	-136.939	-136.939	-136.939
		Vy	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vz	0.074	0.074	0.074	0.074	0.074	0.074	0.074
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	8.23	8.21	8.20	8.18	8.17	8.16	8.14
		Mz	-0.11	-0.09	-0.08	-0.06	-0.05	-0.03	-0.02
	Vento 0	N	-43.921	-43.967	-44.014	-44.060	-44.107	-44.153	-44.200
		Vy	2.339	2.500	2.661	2.823	2.984	3.145	3.306
		Vz	-1.666	-1.666	-1.665	-1.664	-1.663	-1.663	-1.662
		Mt	0.46	0.46	0.46	0.46	0.46	0.46	0.46
		My	1.91	2.22	2.53	2.84	3.15	3.46	3.77
		Mz	-23.11	-23.56	-24.04	-24.55	-25.09	-25.66	-26.27
	Vento 180	N	43.718	43.718	43.718	43.718	43.718	43.718	43.718
		Vy	-2.469	-2.469	-2.469	-2.469	-2.469	-2.469	-2.469
		Vz	1.078	1.078	1.078	1.078	1.078	1.078	1.078
		Mt	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
		My	-1.87	-2.08	-2.28	-2.48	-2.68	-2.88	-3.08
		Mz	24.35	24.81	25.27	25.73	26.19	26.65	27.11
	Multidão (Passeio)	N	-96.588	-96.588	-96.588	-96.588	-96.588	-96.588	-96.588
		Vy	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061	-0.061
		Vz	0.041	0.041	0.041	0.041	0.041	0.041	0.041
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		My	5.92	5.92	5.91	5.90	5.89	5.89	5.88
		Mz	-0.04	-0.03	-0.02	-0.01	0.01	0.02	0.03
	Multidão - TB450	N	-314.572	-314.572	-314.572	-314.572	-314.572	-314.572	-314.572
		Vy	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183	-0.183
		Vz	0.186	0.186	0.186	0.186	0.186	0.186	0.186
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	18.74	18.70	18.67	18.63	18.60	18.56	18.53
		Mz	-0.29	-0.26	-0.22	-0.19	-0.16	-0.12	-0.09
	TB-450-A1	N	-50.762	-50.762	-50.762	-50.762	-50.762	-50.762	-50.762
		Vy	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vz	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522	-0.522
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-0.04	0.05	0.15	0.25	0.35	0.44	0.54
		Mz	-0.35	-0.35	-0.35	-0.36	-0.36	-0.36	-0.36
	TB-450-A2	N	-21.385	-21.385	-21.385	-21.385	-21.385	-21.385	-21.385
		Vy	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		Vz	-0.226	-0.226	-0.226	-0.226	-0.226	-0.226	-0.226
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.02	0.02	0.07	0.11	0.15	0.19	0.23
		Mz	-0.27	-0.28	-0.28	-0.28	-0.29	-0.29	-0.30
	TB-450-B1	N	-146.054	-146.054	-146.054	-146.054	-146.054	-146.054	-146.054
		Vy	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vz	-4.080	-4.080	-4.080	-4.080	-4.080	-4.080	-4.080
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.96	5.72	6.48	7.24	8.00	8.76	9.52
		Mz	-0.13	-0.11	-0.09	-0.08	-0.06	-0.05	-0.03
	TB-450-B2	N	-60.923	-60.923	-60.923	-60.923	-60.923	-60.923	-60.923
		Vy	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
		Vz	-1.724	-1.724	-1.724	-1.724	-1.724	-1.724	-1.724
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.15	2.47	2.79	3.11	3.43	3.75	4.08
		Mz	0.05	0.05	0.06	0.06	0.06	0.06	0.07
	TB-450-C1	N	-85.689	-85.689	-85.689	-85.689	-85.689	-85.689	-85.689
		Vy	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vz	0.128	0.128	0.128	0.128	0.128	0.128	0.128

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Esforços em barras, por hipóteses/ações									
Barra	Hipótese	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	10.65	10.62	10.60	10.58	10.55	10.53	10.50
		Mz	-0.42	-0.41	-0.40	-0.39	-0.38	-0.37	-0.36
	TB-450-C2	N	-205.718	-205.718	-205.718	-205.718	-205.718	-205.718	-205.718
		Vy	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180	-0.180
		Vz	0.201	0.201	0.201	0.201	0.201	0.201	0.201
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	26.05	26.01	25.98	25.94	25.90	25.86	25.83
		Mz	-0.16	-0.13	-0.09	-0.06	-0.03	0.01	0.04
	TB-450-D1	N	-146.550	-146.550	-146.550	-146.550	-146.550	-146.550	-146.550
		Vy	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045	-0.045
		Vz	4.161	4.161	4.161	4.161	4.161	4.161	4.161
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.91	4.14	3.36	2.59	1.81	1.04	0.26
		Mz	-0.08	-0.07	-0.06	-0.06	-0.05	-0.04	-0.03
	TB-450-D2	N	-61.290	-61.290	-61.290	-61.290	-61.290	-61.290	-61.290
		Vy	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075	-0.075
		Vz	1.757	1.757	1.757	1.757	1.757	1.757	1.757
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.11	1.78	1.46	1.13	0.80	0.47	0.14
		Mz	0.04	0.05	0.07	0.08	0.09	0.11	0.12
	TB-450-E1	N	-42.708	-42.708	-42.708	-42.708	-42.708	-42.708	-42.708
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	0.472	0.472	0.472	0.472	0.472	0.472	0.472
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.06	-0.15	-0.24	-0.33	-0.41	-0.50	-0.59
		Mz	0.11	0.12	0.12	0.12	0.13	0.13	0.13
	TB-450-E2	N	-20.347	-20.347	-20.347	-20.347	-20.347	-20.347	-20.347
		Vy	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vz	0.240	0.240	0.240	0.240	0.240	0.240	0.240
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.03	-0.07	-0.12	-0.16	-0.21	-0.25	-0.30
		Mz	0.30	0.31	0.31	0.32	0.33	0.34	0.35

Esforços em barras, por hipóteses/ações

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Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N233/N48	Peso próprio	N	-256.741	-256.736	-256.731
		Vy	-0.334	-0.334	-0.334
		Vz	27.200	27.500	27.801
		Mt	0.12	0.12	0.12
		My	19.27	15.85	12.39
		Mz	0.65	0.69	0.74
	Guarda Corpo	N	-72.845	-72.845	-72.845
		Vy	-0.050	-0.050	-0.050
		Vz	8.587	8.587	8.587
		Mt	0.02	0.02	0.02
		My	5.58	4.51	3.44
		Mz	0.00	0.01	0.01
	Laje	N	-540.602	-540.602	-540.602
		Vy	-0.378	-0.378	-0.378
		Vz	63.068	63.068	63.068
		Mt	0.24	0.24	0.24
		My	41.08	33.19	25.31
		Mz	-0.10	-0.05	0.00
	Pavimentação	N	-295.864	-295.864	-295.864
		Vy	-0.207	-0.207	-0.207
		Vz	34.618	34.618	34.618
		Mt	0.13	0.13	0.13
		My	22.55	18.22	13.89
		Mz	-0.06	-0.03	-0.01
	Recapeamento	N	-134.146	-134.146	-134.146
		Vy	-0.094	-0.094	-0.094
		Vz	15.648	15.648	15.648
		Mt	0.06	0.06	0.06
		My	10.19	8.24	6.28
		Mz	-0.03	-0.01	0.00
	Vento 0	N	-42.598	-42.629	-42.660
		Vy	5.994	6.102	6.210
		Vz	9.892	9.893	9.893
		Mt	1.25	1.25	1.25
		My	5.28	4.04	2.80

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mz	-26.29	-27.04	-27.81
	Vento 180	N	41.314	41.314	41.314
		Vy	-2.444	-2.444	-2.444
		Vz	-10.650	-10.650	-10.650
		Mt	-0.92	-0.92	-0.92
		My	-5.56	-4.23	-2.90
		Mz	27.19	27.50	27.81
	Multidão (Passeio)	N	-94.582	-94.582	-94.582
		Vy	-0.064	-0.064	-0.064
		Vz	11.281	11.281	11.281
		Mt	0.01	0.01	0.01
		My	7.32	5.91	4.50
		Mz	0.03	0.03	0.04
	Multidão - TB450	N	-308.202	-308.202	-308.202
		Vy	-0.218	-0.218	-0.218
		Vz	35.632	35.632	35.632
		Mt	0.17	0.17	0.17
		My	23.24	18.79	14.33
		Mz	-0.12	-0.09	-0.06
	TB-450-A1	N	-55.993	-55.993	-55.993
		Vy	0.013	0.013	0.013
		Vz	-22.874	-22.874	-22.874
		Mt	0.01	0.01	0.01
		My	-6.05	-3.19	-0.34
		Mz	-0.37	-0.37	-0.37
	TB-450-A2	N	-23.610	-23.610	-23.610
		Vy	0.020	0.020	0.020
		Vz	-9.723	-9.723	-9.723
		Mt	0.01	0.01	0.01
		My	-2.57	-1.36	-0.14
		Mz	-0.30	-0.30	-0.30
	TB-450-B1	N	-158.734	-158.734	-158.734
		Vy	-0.084	-0.084	-0.084
		Vz	-57.971	-57.971	-57.971

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Mt	0.00	0.00	0.00
		My	-6.31	0.94	8.19
		Mz	-0.03	-0.02	-0.01
	TB-450-B2	N	-66.288	-66.288	-66.288
		Vy	-0.017	-0.017	-0.017
		Vz	-24.519	-24.519	-24.519
		Mt	0.00	0.00	0.00
		My	-2.62	0.44	3.51
		Mz	0.07	0.07	0.07
	TB-450-C1	N	-81.786	-81.786	-81.786
		Vy	-0.094	-0.094	-0.094
		Vz	21.196	21.196	21.196
		Mt	0.21	0.21	0.21
		My	13.66	11.01	8.36
		Mz	-0.39	-0.38	-0.37
	TB-450-C2	N	-196.333	-196.333	-196.333
		Vy	-0.226	-0.226	-0.226
		Vz	51.408	51.408	51.408
		Mt	0.22	0.22	0.22
		My	33.15	26.72	20.30
		Mz	0.00	0.03	0.06
	TB-450-D1	N	-131.280	-131.280	-131.280
		Vy	-0.046	-0.046	-0.046
		Vz	72.785	72.785	72.785
		Mt	0.00	0.00	0.00
		My	17.98	8.88	-0.22
		Mz	-0.03	-0.03	-0.02
	TB-450-D2	N	-54.837	-54.837	-54.837
		Vy	-0.075	-0.075	-0.075
		Vz	30.758	30.758	30.758
		Mt	0.00	0.00	0.00
		My	7.63	3.79	-0.06
		Mz	0.12	0.13	0.14
	TB-450-E1	N	-38.024	-38.024	-38.024

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Esforços em barras, por hipóteses/ações					
Barra	Hipótese	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		Vy	-0.018	-0.018	-0.018
		Vz	21.447	21.447	21.447
		Mt	-0.01	-0.01	-0.01
		My	4.85	2.17	-0.51
		Mz	0.13	0.14	0.14
	TB-450-E2	N	-18.087	-18.087	-18.087
		Vy	-0.043	-0.043	-0.043
		Vz	10.354	10.354	10.354
		Mt	-0.01	-0.01	-0.01
		My	2.33	1.04	-0.26
		Mz	0.35	0.35	0.36

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N88/N42	Peso próprio	N	-10.422	-10.417	-10.412	-10.407	-10.402	-10.397	-10.392	-10.387	-10.383
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	7.170	7.170	7.170	7.170	7.170	7.170	7.170	7.170	7.170
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-7.180	-7.180	-7.180	-7.180	-7.180	-7.180	-7.180	-7.180	-7.180
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N88/N43	Peso próprio	N	-10.780	-10.775	-10.770	-10.765	-10.760	-10.755	-10.750	-10.746	-10.741
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.336	-0.336	-0.336	-0.336	-0.336	-0.336	-0.336	-0.336	-0.336
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152	-0.152
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-8.425	-8.425	-8.425	-8.425	-8.425	-8.425	-8.425	-8.425	-8.425
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	8.566	8.566	8.566	8.566	8.566	8.566	8.566	8.566	8.566
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.105	-0.105	-0.105	-0.105	-0.105	-0.105	-0.105	-0.105	-0.105
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.352	-0.352	-0.352	-0.352	-0.352	-0.352	-0.352	-0.352	-0.352
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024	-0.024
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173	-0.173
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224	-0.224
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206	-0.206
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.174	-0.174	-0.174	-0.174	-0.174	-0.174	-0.174	-0.174	-0.174
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.186	-0.186	-0.186	-0.186	-0.186	-0.186	-0.186	-0.186	-0.186
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N89/N45	Peso próprio	N	3.172	3.177	3.182	3.187	3.192	3.196	3.201	3.206	3.211
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
	Guarda Corpo	N	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	1.395	1.395	1.395	1.395	1.395	1.395	1.395	1.395	1.395
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-3.064	-3.064	-3.064	-3.064	-3.064	-3.064	-3.064	-3.064	-3.064
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	3.713	3.713	3.713	3.713	3.713	3.713	3.713	3.713	3.713
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.799	0.799	0.799	0.799	0.799	0.799	0.799	0.799	0.799
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264	-0.264
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127	-0.127
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações			
Barra	Hipótese	Esforço	Posições na barra

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N89/N44	Peso próprio	N	1.874	1.879	1.884	1.889	1.894	1.899	1.904	1.909	1.913
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678	-1.678
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.294	-0.294	-0.294	-0.294	-0.294	-0.294	-0.294	-0.294	-0.294
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N90/N47	Peso próprio	N	2.118	2.123	2.128	2.133	2.138	2.143	2.147	2.152	2.157
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.142	-0.142	-0.142	-0.142	-0.142	-0.142	-0.142	-0.142	-0.142
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-1.090	-1.090	-1.090	-1.090	-1.090	-1.090	-1.090	-1.090	-1.090
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.598	-0.598	-0.598	-0.598	-0.598	-0.598	-0.598	-0.598	-0.598
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-6.570	-6.570	-6.570	-6.570	-6.570	-6.570	-6.570	-6.570	-6.570
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	7.370	7.370	7.370	7.370	7.370	7.370	7.370	7.370	7.370
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639	-0.639
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.523	-0.523	-0.523	-0.523	-0.523	-0.523	-0.523	-0.523	-0.523
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.341	-0.341	-0.341	-0.341	-0.341	-0.341	-0.341	-0.341	-0.341
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.351	-0.351	-0.351	-0.351	-0.351	-0.351	-0.351	-0.351	-0.351
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126	-0.126
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140	-0.140
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.347	-0.347	-0.347	-0.347	-0.347	-0.347	-0.347	-0.347	-0.347
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056	-0.056
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N90/N46	Peso próprio	N	1.071	1.076	1.081	1.086	1.091	1.096	1.101	1.105	1.110
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287	-0.287
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-2.179	-2.179	-2.179	-2.179	-2.179	-2.179	-2.179	-2.179	-2.179
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199	-1.199
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542	-0.542

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	5.531	5.531	5.531	5.531	5.531	5.531	5.531	5.531	5.531
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-4.616	-4.616	-4.616	-4.616	-4.616	-4.616	-4.616	-4.616	-4.616
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.362	-0.362	-0.362	-0.362	-0.362	-0.362	-0.362	-0.362	-0.362
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-1.269	-1.269	-1.269	-1.269	-1.269	-1.269	-1.269	-1.269	-1.269
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034	-0.034
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240	-0.240
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361	-0.361
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727	-0.727
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459	-0.459
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149	-0.149
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053	-0.053
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.147	-0.147	-0.147	-0.147	-0.147	-0.147	-0.147	-0.147	-0.147
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N91/N48	Peso próprio	N	0.938	0.943	0.948	0.952	0.957	0.962	0.967	0.972	0.977
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.505	-0.505	-0.505	-0.505	-0.505	-0.505	-0.505	-0.505	-0.505
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-3.784	-3.784	-3.784	-3.784	-3.784	-3.784	-3.784	-3.784	-3.784
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
	Pavimentação	N	-2.074	-2.074	-2.074	-2.074	-2.074	-2.074	-2.074	-2.074	-2.074
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.940	-0.940	-0.940	-0.940	-0.940	-0.940	-0.940	-0.940	-0.940
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	4.463	4.463	4.463	4.463	4.463	4.463	4.463	4.463	4.463
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-3.768	-3.768	-3.768	-3.768	-3.768	-3.768	-3.768	-3.768	-3.768
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.648	-0.648	-0.648	-0.648	-0.648	-0.648	-0.648	-0.648	-0.648
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.177	-2.177	-2.177	-2.177	-2.177	-2.177	-2.177	-2.177	-2.177
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.583	-0.583	-0.583	-0.583	-0.583	-0.583	-0.583	-0.583	-0.583

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.399	-0.399	-0.399	-0.399	-0.399	-0.399	-0.399	-0.399	-0.399
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.924	-0.924	-0.924	-0.924	-0.924	-0.924	-0.924	-0.924	-0.924
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587	-0.587
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.725	-0.725	-0.725	-0.725	-0.725	-0.725	-0.725	-0.725	-0.725
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.145	-1.145	-1.145	-1.145	-1.145	-1.145	-1.145	-1.145	-1.145
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.400	-0.400	-0.400	-0.400	-0.400	-0.400	-0.400	-0.400	-0.400
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.245	-0.245	-0.245	-0.245	-0.245	-0.245	-0.245	-0.245	-0.245
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N91/N49	Peso próprio	N	-2.213	-2.208	-2.203	-2.198	-2.193	-2.188	-2.183	-2.178	-2.173
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.538	-0.538	-0.538	-0.538	-0.538	-0.538	-0.538	-0.538	-0.538
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-3.996	-3.996	-3.996	-3.996	-3.996	-3.996	-3.996	-3.996	-3.996
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.193	-2.193	-2.193	-2.193	-2.193	-2.193	-2.193	-2.193	-2.193
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.992	-0.992	-0.992	-0.992	-0.992	-0.992	-0.992	-0.992	-0.992
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-3.446	-3.446	-3.446	-3.446	-3.446	-3.446	-3.446	-3.446	-3.446
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	4.287	4.287	4.287	4.287	4.287	4.287	4.287	4.287	4.287
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
	Multidão - TB450	N	-2.281	-2.281	-2.281	-2.281	-2.281	-2.281	-2.281	-2.281	-2.281
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293	-0.293
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.490	-0.490	-0.490	-0.490	-0.490	-0.490	-0.490	-0.490	-0.490
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.715	-0.715	-0.715	-0.715	-0.715	-0.715	-0.715	-0.715	-0.715
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225	-1.225
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675	-0.675

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.532	-0.532	-0.532	-0.532	-0.532	-0.532	-0.532	-0.532	-0.532
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819	-0.819
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
N50/N92	Peso próprio	N	-2.553	-2.552	-2.551	-2.550	-2.549	-2.548	-2.547	-2.546	-2.545
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		My	0.00	0.28	0.48	0.60	0.64	0.60	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697	-0.697
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-5.272	-5.272	-5.272	-5.272	-5.272	-5.272	-5.272	-5.272	-5.272
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.893	-2.893	-2.893	-2.893	-2.893	-2.893	-2.893	-2.893	-2.893
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.310	-1.310	-1.310	-1.310	-1.310	-1.310	-1.310	-1.310	-1.310
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-3.202	-3.202	-3.202	-3.202	-3.202	-3.202	-3.202	-3.202	-3.202
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	4.067	4.067	4.067	4.067	4.067	4.067	4.067	4.067	4.067
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.883	-0.883	-0.883	-0.883	-0.883	-0.883	-0.883	-0.883	-0.883
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-3.062	-3.062	-3.062	-3.062	-3.062	-3.062	-3.062	-3.062	-3.062
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696	-0.696
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.543	-0.543	-0.543	-0.543	-0.543	-0.543	-0.543	-0.543	-0.543
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256	-1.256
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905	-0.905
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
	TB-450-C1	N	-1.221	-1.221	-1.221	-1.221	-1.221	-1.221	-1.221	-1.221	-1.221
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.540	-1.540	-1.540	-1.540	-1.540	-1.540	-1.540	-1.540	-1.540
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.893	-0.893	-0.893	-0.893	-0.893	-0.893	-0.893	-0.893	-0.893
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577	-0.577
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271	-0.271
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
N51/N92	Peso próprio	N	-2.865	-2.864	-2.863	-2.862	-2.861	-2.860	-2.859	-2.858	-2.858
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692	-0.692
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-5.155	-5.155	-5.155	-5.155	-5.155	-5.155	-5.155	-5.155	-5.155
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.828	-2.828	-2.828	-2.828	-2.828	-2.828	-2.828	-2.828	-2.828
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.279	-1.279	-1.279	-1.279	-1.279	-1.279	-1.279	-1.279	-1.279
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	2.844	2.844	2.844	2.844	2.844	2.844	2.844	2.844	2.844
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-1.898	-1.898	-1.898	-1.898	-1.898	-1.898	-1.898	-1.898	-1.898

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.893	-0.893	-0.893	-0.893	-0.893	-0.893	-0.893	-0.893	-0.893
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-2.951	-2.951	-2.951	-2.951	-2.951	-2.951	-2.951	-2.951	-2.951
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.279	-0.279	-0.279	-0.279	-0.279	-0.279	-0.279	-0.279	-0.279
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.443	-0.443	-0.443	-0.443	-0.443	-0.443	-0.443	-0.443	-0.443
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.985	-0.985	-0.985	-0.985	-0.985	-0.985	-0.985	-0.985	-0.985
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.343	-1.343	-1.343	-1.343	-1.343	-1.343	-1.343	-1.343	-1.343
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.488	-1.488	-1.488	-1.488	-1.488	-1.488	-1.488	-1.488	-1.488
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.105	-1.105	-1.105	-1.105	-1.105	-1.105	-1.105	-1.105	-1.105
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081	-1.081
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182	-0.182
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316	-0.316
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N94/N50	Peso próprio	N	5.191	5.198	5.204	5.211	5.218	5.225	5.232	5.238	5.245
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
	Vento 0	N	4.405	4.405	4.405	4.405	4.405	4.405	4.405	4.405	4.405
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-3.350	-3.350	-3.350	-3.350	-3.350	-3.350	-3.350	-3.350	-3.350
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238	0.238
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.112	-0.112	-0.112	-0.112	-0.112	-0.112	-0.112	-0.112	-0.112

Adib José Francisco Junior
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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.397	-0.397	-0.397	-0.397	-0.397	-0.397	-0.397	-0.397	-0.397
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331	-0.331
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N94/N51	Peso próprio	N	8.768	8.774	8.781	8.788	8.795	8.802	8.808	8.815	8.822
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	1.490	1.490	1.490	1.490	1.490	1.490	1.490	1.490	1.490
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.809	0.809	0.809	0.809	0.809	0.809	0.809	0.809	0.809
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.368	0.368	0.368	0.368	0.368	0.368	0.368	0.368	0.368
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-3.804	-3.804	-3.804	-3.804	-3.804	-3.804	-3.804	-3.804	-3.804
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	4.816	4.816	4.816	4.816	4.816	4.816	4.816	4.816	4.816
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
	TB-450-A2	N	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N95/N52	Peso próprio	N	-2.914	-2.907	-2.901	-2.894	-2.887	-2.880	-2.873	-2.867	-2.860
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706	-0.706
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-5.270	-5.270	-5.270	-5.270	-5.270	-5.270	-5.270	-5.270	-5.270
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-2.888	-2.888	-2.888	-2.888	-2.888	-2.888	-2.888	-2.888	-2.888
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-1.308	-1.308	-1.308	-1.308	-1.308	-1.308	-1.308	-1.308	-1.308
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-6.767	-6.767	-6.767	-6.767	-6.767	-6.767	-6.767	-6.767	-6.767
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.909	-0.909	-0.909	-0.909	-0.909	-0.909	-0.909	-0.909	-0.909
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-3.023	-3.023	-3.023	-3.023	-3.023	-3.023	-3.023	-3.023	-3.023
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.282	-0.282	-0.282	-0.282	-0.282	-0.282	-0.282	-0.282	-0.282
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.989	-0.989	-0.989	-0.989	-0.989	-0.989	-0.989	-0.989	-0.989
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.638	-0.638	-0.638	-0.638	-0.638	-0.638	-0.638	-0.638	-0.638
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-1.100	-1.100	-1.100	-1.100	-1.100	-1.100	-1.100	-1.100	-1.100
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.585	-1.585	-1.585	-1.585	-1.585	-1.585	-1.585	-1.585	-1.585
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
	TB-450-D1	N	-1.461	-1.461	-1.461	-1.461	-1.461	-1.461	-1.461	-1.461	-1.461
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980	-0.980
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.485	-0.485	-0.485	-0.485	-0.485	-0.485	-0.485	-0.485	-0.485
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N95/N53	Peso próprio	N	-0.386	-0.379	-0.372	-0.366	-0.359	-0.352	-0.345	-0.338	-0.332
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.450	-0.450	-0.450	-0.450	-0.450	-0.450	-0.450	-0.450	-0.450
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-3.366	-3.366	-3.366	-3.366	-3.366	-3.366	-3.366	-3.366	-3.366
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-1.848	-1.848	-1.848	-1.848	-1.848	-1.848	-1.848	-1.848	-1.848
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	9.211	9.211	9.211	9.211	9.211	9.211	9.211	9.211	9.211
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-8.401	-8.401	-8.401	-8.401	-8.401	-8.401	-8.401	-8.401	-8.401
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.579	-0.579	-0.579	-0.579	-0.579	-0.579	-0.579	-0.579	-0.579
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-1.933	-1.933	-1.933	-1.933	-1.933	-1.933	-1.933	-1.933	-1.933
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106	-0.106
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223	-0.223
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.543	-0.543	-0.543	-0.543	-0.543	-0.543	-0.543	-0.543	-0.543
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.992	-0.992	-0.992	-0.992	-0.992	-0.992	-0.992	-0.992	-0.992
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558	-0.558
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.534	-0.534	-0.534	-0.534	-0.534	-0.534	-0.534	-0.534	-0.534
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.960	-0.960	-0.960	-0.960	-0.960	-0.960	-0.960	-0.960	-0.960
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327	-0.327
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.741	-0.741	-0.741	-0.741	-0.741	-0.741	-0.741	-0.741	-0.741
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N97/N54	Peso próprio	N	-1.633	-1.626	-1.619	-1.612	-1.605	-1.598	-1.592	-1.585	-1.578
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.465	-0.465	-0.465	-0.465	-0.465	-0.465	-0.465	-0.465	-0.465
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-3.452	-3.452	-3.452	-3.452	-3.452	-3.452	-3.452	-3.452	-3.452
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-1.890	-1.890	-1.890	-1.890	-1.890	-1.890	-1.890	-1.890	-1.890
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857	-0.857
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254	-1.254
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	1.958	1.958	1.958	1.958	1.958	1.958	1.958	1.958	1.958
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-1.970	-1.970	-1.970	-1.970	-1.970	-1.970	-1.970	-1.970	-1.970
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109	-0.109
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.579	-0.579	-0.579	-0.579	-0.579	-0.579	-0.579	-0.579	-0.579
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344	-0.344
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.575	-0.575	-0.575	-0.575	-0.575	-0.575	-0.575	-0.575	-0.575
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.976	-0.976	-0.976	-0.976	-0.976	-0.976	-0.976	-0.976	-0.976
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-1.127	-1.127	-1.127	-1.127	-1.127	-1.127	-1.127	-1.127	-1.127
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705	-0.705
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.432	-0.432	-0.432	-0.432	-0.432	-0.432	-0.432	-0.432	-0.432
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.256	-0.256	-0.256	-0.256	-0.256	-0.256	-0.256	-0.256	-0.256
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N97/N55	Peso próprio	N	-1.473	-1.466	-1.459	-1.452	-1.445	-1.439	-1.432	-1.425	-1.418
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436	-0.436
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-3.227	-3.227	-3.227	-3.227	-3.227	-3.227	-3.227	-3.227	-3.227
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-1.768	-1.768	-1.768	-1.768	-1.768	-1.768	-1.768	-1.768	-1.768
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.801	-0.801	-0.801	-0.801	-0.801	-0.801	-0.801	-0.801	-0.801
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	3.911	3.911	3.911	3.911	3.911	3.911	3.911	3.911	3.911
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-3.389	-3.389	-3.389	-3.389	-3.389	-3.389	-3.389	-3.389	-3.389
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.568	-0.568	-0.568	-0.568	-0.568	-0.568	-0.568	-0.568	-0.568
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-1.835	-1.835	-1.835	-1.835	-1.835	-1.835	-1.835	-1.835	-1.835
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064	-0.064
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136	-0.136
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.205	-0.205	-0.205	-0.205	-0.205	-0.205	-0.205	-0.205	-0.205
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.488	-0.488	-0.488	-0.488	-0.488	-0.488	-0.488	-0.488	-0.488
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.784	-0.784	-0.784	-0.784	-0.784	-0.784	-0.784	-0.784	-0.784
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.352	-0.352	-0.352	-0.352	-0.352	-0.352	-0.352	-0.352	-0.352
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.535	-0.535	-0.535	-0.535	-0.535	-0.535	-0.535	-0.535	-0.535
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.005	-1.005	-1.005	-1.005	-1.005	-1.005	-1.005	-1.005	-1.005
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384	-0.384
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.791	-0.791	-0.791	-0.791	-0.791	-0.791	-0.791	-0.791	-0.791
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N96/N33	Peso próprio	N	-9.449	-9.443	-9.436	-9.429	-9.422	-9.415	-9.408	-9.402	-9.395
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.571	-0.428	-0.286	-0.143	0.000	0.143	0.286	0.428	0.571
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	11.450	11.450	11.450	11.450	11.450	11.450	11.450	11.450	11.450
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-11.292	-11.292	-11.292	-11.292	-11.292	-11.292	-11.292	-11.292	-11.292
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N96/N58	Peso próprio	N	-10.016	-10.010	-10.003	-9.996	-9.989	-9.982	-9.976	-9.969	-9.962
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.459	-0.344	-0.229	-0.115	0.000	0.115	0.229	0.344	0.459
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.746
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
	Pavimentação	N	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-9.704	-9.704	-9.704	-9.704	-9.704	-9.704	-9.704	-9.704	-9.704
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	9.731	9.731	9.731	9.731	9.731	9.731	9.731	9.731	9.731
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N79/N37	Peso próprio	N	-0.320	-0.317	-0.314	-0.311	-0.308	-0.305	-0.302	-0.299	-0.296
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.281	-0.211	-0.141	-0.070	0.000	0.070	0.141	0.211	0.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	2.509	2.509	2.509	2.509	2.509	2.509	2.509	2.509	2.509
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	35.870	35.870	35.870	35.870	35.870	35.870	35.870	35.870	35.870
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-35.433	-35.433	-35.433	-35.433	-35.433	-35.433	-35.433	-35.433	-35.433
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
	Multidão - TB450	N	1.985	1.985	1.985	1.985	1.985	1.985	1.985	1.985	1.985
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.253	-0.253	-0.253	-0.253	-0.253	-0.253	-0.253	-0.253	-0.253
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121	-0.121
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.584	1.584	1.584	1.584	1.584	1.584	1.584	1.584	1.584
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.417	0.417	0.417	0.417	0.417	0.417	0.417	0.417	0.417
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.890	0.890	0.890	0.890	0.890	0.890	0.890	0.890	0.890
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833	2.833

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.887	-0.887	-0.887	-0.887	-0.887	-0.887	-0.887	-0.887	-0.887
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.457	-0.457	-0.457	-0.457	-0.457	-0.457	-0.457	-0.457	-0.457
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N79/N25	Peso próprio	N	-0.275	-0.272	-0.269	-0.266	-0.263	-0.260	-0.257	-0.254	-0.251
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.350	-0.263	-0.175	-0.088	0.000	0.088	0.175	0.263	0.350
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		My	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-39.692	-39.692	-39.692	-39.692	-39.692	-39.692	-39.692	-39.692	-39.692
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	40.103	40.103	40.103	40.103	40.103	40.103	40.103	40.103	40.103
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	1.499	1.499	1.499	1.499	1.499	1.499	1.499	1.499	1.499
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534	-1.534
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-1.687	-1.687	-1.687	-1.687	-1.687	-1.687	-1.687	-1.687	-1.687
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	2.036	2.036	2.036	2.036	2.036	2.036	2.036	2.036	2.036
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
	TB-450-C1	N	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033	-1.033
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471	-0.471
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N78/N8	Peso próprio	N	-0.521	-0.518	-0.515	-0.512	-0.509	-0.506	-0.503	-0.500	-0.497
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.281	-0.211	-0.141	-0.070	0.000	0.070	0.141	0.211	0.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	1.689	1.689	1.689	1.689	1.689	1.689	1.689	1.689	1.689
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	77.904	77.904	77.904	77.904	77.904	77.904	77.904	77.904	77.904
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-77.371	-77.371	-77.371	-77.371	-77.371	-77.371	-77.371	-77.371	-77.371

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	2.338	2.338	2.338	2.338	2.338	2.338	2.338	2.338	2.338
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143	-1.143
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594	-0.594
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054	-0.054
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	3.834	3.834	3.834	3.834	3.834	3.834	3.834	3.834	3.834
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	1.446	1.446	1.446	1.446	1.446	1.446	1.446	1.446	1.446
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.707	-1.707	-1.707	-1.707	-1.707	-1.707	-1.707	-1.707	-1.707
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.709	-0.709	-0.709	-0.709	-0.709	-0.709	-0.709	-0.709	-0.709
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N80/N9	Peso próprio	N	-0.463	-0.460	-0.457	-0.454	-0.451	-0.448	-0.445	-0.442	-0.439
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.281	-0.211	-0.141	-0.070	0.000	0.070	0.141	0.211	0.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	4.166	4.166	4.166	4.166	4.166	4.166	4.166	4.166	4.166
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	2.365	2.365	2.365	2.365	2.365	2.365	2.365	2.365	2.365
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
	Vento 0	N	31.572	31.572	31.572	31.572	31.572	31.572	31.572	31.572	31.572
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-31.022	-31.022	-31.022	-31.022	-31.022	-31.022	-31.022	-31.022	-31.022
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	3.211	3.211	3.211	3.211	3.211	3.211	3.211	3.211	3.211
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	3.567	3.567	3.567	3.567	3.567	3.567	3.567	3.567	3.567
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.805	-0.805	-0.805	-0.805	-0.805	-0.805	-0.805	-0.805	-0.805
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.549	-0.549	-0.549	-0.549	-0.549	-0.549	-0.549	-0.549	-0.549
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N78/N2	Peso próprio	N	-0.438	-0.435	-0.432	-0.429	-0.426	-0.423	-0.420	-0.417	-0.414
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.350	-0.263	-0.175	-0.088	0.000	0.088	0.175	0.263	0.350
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093	-0.093
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-83.759	-83.759	-83.759	-83.759	-83.759	-83.759	-83.759	-83.759	-83.759
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	84.061	84.061	84.061	84.061	84.061	84.061	84.061	84.061	84.061
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.286	-0.286	-0.286	-0.286	-0.286	-0.286	-0.286	-0.286	-0.286
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-2.919	-2.919	-2.919	-2.919	-2.919	-2.919	-2.919	-2.919	-2.919
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
	TB-450-A2	N	-3.497	-3.497	-3.497	-3.497	-3.497	-3.497	-3.497	-3.497	-3.497
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845	0.845
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	3.984	3.984	3.984	3.984	3.984	3.984	3.984	3.984	3.984
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	4.012	4.012	4.012	4.012	4.012	4.012	4.012	4.012	4.012
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065	-0.065
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-2.001	-2.001	-2.001	-2.001	-2.001	-2.001	-2.001	-2.001	-2.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	1.415	1.415	1.415	1.415	1.415	1.415	1.415	1.415	1.415

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.903	-0.903	-0.903	-0.903	-0.903	-0.903	-0.903	-0.903	-0.903
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469	0.469
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N80/N3	Peso próprio	N	-0.601	-0.598	-0.595	-0.592	-0.589	-0.586	-0.583	-0.580	-0.577
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.350	-0.263	-0.175	-0.088	0.000	0.088	0.175	0.263	0.350
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-1.232	-1.232	-1.232	-1.232	-1.232	-1.232	-1.232	-1.232	-1.232
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680	-0.680
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.307	-0.307	-0.307	-0.307	-0.307	-0.307	-0.307	-0.307	-0.307
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-33.216	-33.216	-33.216	-33.216	-33.216	-33.216	-33.216	-33.216	-33.216
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	32.962	32.962	32.962	32.962	32.962	32.962	32.962	32.962	32.962
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.751	-0.751	-0.751	-0.751	-0.751	-0.751	-0.751	-0.751	-0.751
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482	-0.482
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.319
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.464	-0.464	-0.464	-0.464	-0.464	-0.464	-0.464	-0.464	-0.464
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-1.026	-1.026	-1.026	-1.026	-1.026	-1.026	-1.026	-1.026	-1.026
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
	TB-450-D1	N	-0.865	-0.865	-0.865	-0.865	-0.865	-0.865	-0.865	-0.865	-0.865
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.680	0.680	0.680	0.680	0.680	0.680	0.680	0.680	0.680
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364	-0.364
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N84/N11	Peso próprio	N	-0.487	-0.483	-0.479	-0.475	-0.470	-0.466	-0.462	-0.458	-0.454
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.350	-0.263	-0.175	-0.088	0.000	0.088	0.175	0.263	0.350
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.462	0.462	0.462	0.462	0.462	0.462	0.462	0.462	0.462
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	31.965	31.965	31.965	31.965	31.965	31.965	31.965	31.965	31.965
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-31.765	-31.765	-31.765	-31.765	-31.765	-31.765	-31.765	-31.765	-31.765
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.513	-0.513	-0.513	-0.513	-0.513	-0.513	-0.513	-0.513	-0.513
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	3.454	3.454	3.454	3.454	3.454	3.454	3.454	3.454	3.454
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-1.977	-1.977	-1.977	-1.977	-1.977	-1.977	-1.977	-1.977	-1.977
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.549	0.549	0.549	0.549	0.549	0.549	0.549	0.549	0.549
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144	-0.144
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N86/N12	Peso próprio	N	-0.560	-0.556	-0.551	-0.547	-0.543	-0.539	-0.535	-0.531	-0.526
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vz	-0.350	-0.263	-0.175	-0.088	0.000	0.088	0.175	0.263	0.350
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146	-0.146
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504	-0.504
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213	-0.213
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	77.289	77.289	77.289	77.289	77.289	77.289	77.289	77.289	77.289
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-77.001	-77.001	-77.001	-77.001	-77.001	-77.001	-77.001	-77.001	-77.001
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312	-0.312
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243	-0.243
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.466	-0.466	-0.466	-0.466	-0.466	-0.466	-0.466	-0.466	-0.466
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-1.566	-1.566	-1.566	-1.566	-1.566	-1.566	-1.566	-1.566	-1.566
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	1.088	1.088	1.088	1.088	1.088	1.088	1.088	1.088	1.088
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	4.082	4.082	4.082	4.082	4.082	4.082	4.082	4.082	4.082
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030	-0.030
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	3.948	3.948	3.948	3.948	3.948	3.948	3.948	3.948	3.948
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-3.295	-3.295	-3.295	-3.295	-3.295	-3.295	-3.295	-3.295	-3.295
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950	-2.950
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N85/N38	Peso próprio	N	-0.399	-0.394	-0.390	-0.386	-0.382	-0.378	-0.374	-0.369	-0.365
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.350	-0.263	-0.175	-0.088	0.000	0.088	0.175	0.263	0.350
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	36.585	36.585	36.585	36.585	36.585	36.585	36.585	36.585	36.585
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-36.194	-36.194	-36.194	-36.194	-36.194	-36.194	-36.194	-36.194	-36.194
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124	-0.124
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	1.014	1.014	1.014	1.014	1.014	1.014	1.014	1.014	1.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101	-0.101
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.217	-0.217	-0.217	-0.217	-0.217	-0.217	-0.217	-0.217	-0.217
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776	-0.776
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	3.448	3.448	3.448	3.448	3.448	3.448	3.448	3.448	3.448
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	1.444	1.444	1.444	1.444	1.444	1.444	1.444	1.444	1.444
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	1.856	1.856	1.856	1.856	1.856	1.856	1.856	1.856	1.856
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-2.105	-2.105	-2.105	-2.105	-2.105	-2.105	-2.105	-2.105	-2.105
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-1.509	-1.509	-1.509	-1.509	-1.509	-1.509	-1.509	-1.509	-1.509
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N84/N4	Peso próprio	N	-0.751	-0.747	-0.742	-0.738	-0.734	-0.730	-0.726	-0.722	-0.717
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.281	-0.211	-0.141	-0.070	0.000	0.070	0.141	0.211	0.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663	0.663
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-31.170	-31.170	-31.170	-31.170	-31.170	-31.170	-31.170	-31.170	-31.170
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	31.261	31.261	31.261	31.261	31.261	31.261	31.261	31.261	31.261
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	0.952	0.952	0.952	0.952	0.952	0.952	0.952	0.952	0.952
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247	-0.247
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114	-0.114
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.469	-0.469	-0.469	-0.469	-0.469	-0.469	-0.469	-0.469	-0.469
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494	-0.494
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174	2.174
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	0.804	0.804	0.804	0.804	0.804	0.804	0.804	0.804	0.804
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-1.577	-1.577	-1.577	-1.577	-1.577	-1.577	-1.577	-1.577	-1.577
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	0.802	0.802	0.802	0.802	0.802	0.802	0.802	0.802	0.802
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N86/N5	Peso próprio	N	-0.624	-0.620	-0.616	-0.612	-0.608	-0.603	-0.599	-0.595	-0.591
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.281	-0.211	-0.141	-0.070	0.000	0.070	0.141	0.211	0.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	2.540	2.540	2.540	2.540	2.540	2.540	2.540	2.540	2.540
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
	Pavimentação	N	1.426	1.426	1.426	1.426	1.426	1.426	1.426	1.426	1.426
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.648	0.648	0.648	0.648	0.648	0.648	0.648	0.648	0.648
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-72.509	-72.509	-72.509	-72.509	-72.509	-72.509	-72.509	-72.509	-72.509
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	73.030	73.030	73.030	73.030	73.030	73.030	73.030	73.030	73.030
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	1.984	1.984	1.984	1.984	1.984	1.984	1.984	1.984	1.984
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	1.170	1.170	1.170	1.170	1.170	1.170	1.170	1.170	1.170
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-1.406	-1.406	-1.406	-1.406	-1.406	-1.406	-1.406	-1.406	-1.406
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	3.863	3.863	3.863	3.863	3.863	3.863	3.863	3.863	3.863
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	3.473	3.473	3.473	3.473	3.473	3.473	3.473	3.473	3.473
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.624	-0.624	-0.624	-0.624	-0.624	-0.624	-0.624	-0.624	-0.624
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-2.465	-2.465	-2.465	-2.465	-2.465	-2.465	-2.465	-2.465	-2.465
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N85/N28	Peso próprio	N	-0.427	-0.422	-0.418	-0.414	-0.410	-0.406	-0.402	-0.397	-0.393
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.281	-0.211	-0.141	-0.070	0.000	0.070	0.141	0.211	0.281
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009	2.009
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	1.141	1.141	1.141	1.141	1.141	1.141	1.141	1.141	1.141
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	-33.003	-33.003	-33.003	-33.003	-33.003	-33.003	-33.003	-33.003	-33.003
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	33.431	33.431	33.431	33.431	33.431	33.431	33.431	33.431	33.431
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Adib José Francisco Junior
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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
	Multidão - TB450	N	1.614	1.614	1.614	1.614	1.614	1.614	1.614	1.614	1.614
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111	-0.111
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.730	-0.730	-0.730	-0.730	-0.730	-0.730	-0.730	-0.730	-0.730
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	1.038	1.038	1.038	1.038	1.038	1.038	1.038	1.038	1.038
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	2.815	2.815	2.815	2.815	2.815	2.815	2.815	2.815	2.815

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	1.468	1.468	1.468	1.468	1.468	1.468	1.468	1.468	1.468
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120	-0.120
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.432	-0.432	-0.432	-0.432	-0.432	-0.432	-0.432	-0.432	-0.432
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.825	-0.825	-0.825	-0.825	-0.825	-0.825	-0.825	-0.825	-0.825
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
N4/N82	Peso próprio	N	3.858	3.865	3.872	3.880	3.887	3.894	3.901	3.908	3.916
		Vy	-0.495	-0.495	-0.495	-0.495	-0.495	-0.495	-0.495	-0.495	-0.495
		Vz	-5.112	-4.041	-2.969	-1.898	-0.826	0.245	1.317	2.388	3.459
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		My	-6.07	-2.07	1.00	3.13	4.32	4.57	3.89	2.27	-0.29
		Mz	-0.76	-0.33	0.11	0.54	0.97	1.40	1.84	2.27	2.70
	Guarda Corpo	N	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908
		Vy	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304	-0.304
		Vz	-0.533	-0.533	-0.533	-0.533	-0.533	-0.533	-0.533	-0.533	-0.533
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.40	-0.93	-0.46	0.00	0.47	0.94	1.40	1.87	2.34
		Mz	-0.81	-0.54	-0.27	-0.01	0.26	0.53	0.79	1.06	1.32
	Laje	N	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983	-0.983
		Vy	-3.347	-3.347	-3.347	-3.347	-3.347	-3.347	-3.347	-3.347	-3.347
		Vz	-5.830	-5.830	-5.830	-5.830	-5.830	-5.830	-5.830	-5.830	-5.830
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-15.58	-10.48	-5.38	-0.28	4.82	9.92	15.02	20.11	25.21
		Mz	-9.02	-6.09	-3.16	-0.24	2.69	5.62	8.54	11.47	14.40
	Pavimentação	N	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
		Vy	-1.907	-1.907	-1.907	-1.907	-1.907	-1.907	-1.907	-1.907	-1.907
		Vz	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321	-3.321
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-8.87	-5.96	-3.06	-0.16	2.75	5.65	8.56	11.46	14.36
		Mz	-5.14	-3.47	-1.80	-0.13	1.54	3.20	4.87	6.54	8.21
	Recapeamento	N	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391	-0.391
		Vy	-0.851	-0.851	-0.851	-0.851	-0.851	-0.851	-0.851	-0.851	-0.851
		Vz	-1.482	-1.482	-1.482	-1.482	-1.482	-1.482	-1.482	-1.482	-1.482
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-3.96	-2.67	-1.37	-0.08	1.22	2.52	3.81	5.11	6.41
		Mz	-2.30	-1.55	-0.81	-0.06	0.68	1.43	2.17	2.92	3.66
	Vento 0	N	-30.751	-30.751	-30.751	-30.751	-30.751	-30.751	-30.751	-30.751	-30.751
		Vy	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134	8.134
		Vz	15.804	15.804	15.804	15.804	15.804	15.804	15.804	15.804	15.804
		Mt	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23	-0.23
		My	74.58	60.76	46.93	33.11	19.29	5.47	-8.35	-22.17	-35.99
		Mz	38.91	31.79	24.68	17.57	10.45	3.34	-3.77	-10.89	-18.00
	Vento 180	N	38.538	38.538	38.538	38.538	38.538	38.538	38.538	38.538	38.538
		Vy	-8.421	-8.421	-8.421	-8.421	-8.421	-8.421	-8.421	-8.421	-8.421
		Vz	-16.381	-16.381	-16.381	-16.381	-16.381	-16.381	-16.381	-16.381	-16.381
		Mt	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
		My	-77.52	-63.19	-48.87	-34.54	-20.22	-5.89	8.44	22.76	37.09

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Mz	-40.39	-33.02	-25.66	-18.29	-10.93	-3.56	3.80	11.17	18.53
	Multidão (Passeio)	N	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817
		Vy	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164
		Vz	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296	-0.296
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.71	-0.45	-0.19	0.07	0.33	0.58	0.84	1.10	1.36
		Mz	-0.40	-0.26	-0.11	0.03	0.17	0.32	0.46	0.60	0.75
	Multidão - TB450	N	-4.857	-4.857	-4.857	-4.857	-4.857	-4.857	-4.857	-4.857	-4.857
		Vy	-2.515	-2.515	-2.515	-2.515	-2.515	-2.515	-2.515	-2.515	-2.515
		Vz	-4.365	-4.365	-4.365	-4.365	-4.365	-4.365	-4.365	-4.365	-4.365
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	-11.78	-7.96	-4.15	-0.33	3.49	7.31	11.13	14.94	18.76
		Mz	-6.84	-4.64	-2.44	-0.24	1.96	4.16	6.36	8.56	10.76
	TB-450-A1	N	2.986	2.986	2.986	2.986	2.986	2.986	2.986	2.986	2.986
		Vy	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120
		Vz	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218	0.218
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.94	0.75	0.56	0.36	0.17	-0.02	-0.21	-0.40	-0.59
		Mz	0.51	0.40	0.30	0.20	0.09	-0.01	-0.12	-0.22	-0.33
	TB-450-A2	N	2.960	2.960	2.960	2.960	2.960	2.960	2.960	2.960	2.960
		Vy	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
		Vz	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.209	0.209
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.99	0.80	0.62	0.44	0.25	0.07	-0.11	-0.29	-0.48
		Mz	0.53	0.43	0.33	0.23	0.13	0.03	-0.07	-0.17	-0.27
	TB-450-B1	N	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435
		Vy	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
		Vz	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.03	-0.04	-0.06	-0.08	-0.10	-0.12	-0.14	-0.16	-0.18
		Mz	-0.05	-0.06	-0.07	-0.08	-0.09	-0.10	-0.11	-0.12	-0.13
	TB-450-B2	N	1.719	1.719	1.719	1.719	1.719	1.719	1.719	1.719	1.719
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.04	0.09	0.13	0.18	0.22	0.27	0.31	0.36
		Mz	0.03	0.04	0.06	0.07	0.09	0.11	0.12	0.14	0.15

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
	TB-450-C1	N	-15.401	-15.401	-15.401	-15.401	-15.401	-15.401	-15.401	-15.401	-15.401
		Vy	-3.761	-3.761	-3.761	-3.761	-3.761	-3.761	-3.761	-3.761	-3.761
		Vz	-6.530	-6.530	-6.530	-6.530	-6.530	-6.530	-6.530	-6.530	-6.530
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-16.11	-10.40	-4.69	1.02	6.73	12.44	18.15	23.86	29.57
		Mz	-9.31	-6.02	-2.74	0.55	3.84	7.13	10.42	13.71	17.00
	TB-450-C2	N	-15.186	-15.186	-15.186	-15.186	-15.186	-15.186	-15.186	-15.186	-15.186
		Vy	-2.739	-2.739	-2.739	-2.739	-2.739	-2.739	-2.739	-2.739	-2.739
		Vz	-4.673	-4.673	-4.673	-4.673	-4.673	-4.673	-4.673	-4.673	-4.673
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-14.51	-10.42	-6.33	-2.25	1.84	5.93	10.01	14.10	18.19
		Mz	-8.54	-6.14	-3.75	-1.35	1.04	3.44	5.83	8.23	10.62
	TB-450-D1	N	6.881	6.881	6.881	6.881	6.881	6.881	6.881	6.881	6.881
		Vy	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069
		Vz	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.52	0.45	0.38	0.31	0.25	0.18	0.11	0.05	-0.02
		Mz	0.41	0.35	0.29	0.22	0.16	0.10	0.04	-0.02	-0.08
	TB-450-D2	N	7.864	7.864	7.864	7.864	7.864	7.864	7.864	7.864	7.864
		Vy	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060
		Vz	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.27	0.19	0.11	0.03	-0.05	-0.13	-0.21	-0.29	-0.37
		Mz	0.15	0.10	0.05	-0.01	-0.06	-0.11	-0.16	-0.22	-0.27
	TB-450-E1	N	-1.260	-1.260	-1.260	-1.260	-1.260	-1.260	-1.260	-1.260	-1.260
		Vy	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vz	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.38	-0.30	-0.21	-0.12	-0.04	0.05	0.14	0.23	0.31
		Mz	-0.22	-0.17	-0.12	-0.07	-0.03	0.02	0.07	0.12	0.17
	TB-450-E2	N	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694	-0.694
		Vy	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097	-0.097
		Vz	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190	-0.190
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.90	-0.73	-0.57	-0.40	-0.24	-0.07	0.10	0.26	0.43
		Mz	-0.48	-0.39	-0.31	-0.22	-0.14	-0.05	0.03	0.11	0.20

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
N82/N3	Peso próprio	N	4.768	4.775	4.782	4.790	4.797	4.804	4.811	4.818	4.825
		Vy	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957
		Vz	-1.773	-0.913	-0.052	0.809	1.670	2.530	3.391	4.252	5.113
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	4.40	5.35	5.68	5.42	4.55	3.07	0.99	-1.69	-4.98
		Mz	4.43	3.75	3.08	2.41	1.74	1.07	0.39	-0.28	-0.95
	Guarda Corpo	N	1.643	1.643	1.643	1.643	1.643	1.643	1.643	1.643	1.643
		Vy	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
		Vz	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	3.35	2.74	2.12	1.51	0.90	0.29	-0.32	-0.93	-1.55
		Mz	1.95	1.59	1.24	0.89	0.54	0.19	-0.16	-0.51	-0.86
	Laje	N	8.195	8.195	8.195	8.195	8.195	8.195	8.195	8.195	8.195
		Vy	5.467	5.467	5.467	5.467	5.467	5.467	5.467	5.467	5.467
		Vz	9.369	9.369	9.369	9.369	9.369	9.369	9.369	9.369	9.369
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	35.78	29.20	22.62	16.03	9.45	2.87	-3.71	-10.30	-16.88
		Mz	21.01	17.17	13.33	9.48	5.64	1.80	-2.04	-5.88	-9.72
	Pavimentação	N	4.207	4.207	4.207	4.207	4.207	4.207	4.207	4.207	4.207
		Vy	3.112	3.112	3.112	3.112	3.112	3.112	3.112	3.112	3.112
		Vz	5.326	5.326	5.326	5.326	5.326	5.326	5.326	5.326	5.326
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	20.34	16.60	12.86	9.12	5.37	1.63	-2.11	-5.85	-9.59
		Mz	11.95	9.77	7.58	5.39	3.21	1.02	-1.16	-3.35	-5.54
	Recapeamento	N	1.957	1.957	1.957	1.957	1.957	1.957	1.957	1.957	1.957
		Vy	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390
		Vz	2.380	2.380	2.380	2.380	2.380	2.380	2.380	2.380	2.380
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	9.09	7.42	5.74	4.07	2.40	0.73	-0.95	-2.62	-4.29
		Mz	5.34	4.36	3.38	2.41	1.43	0.45	-0.52	-1.50	-2.48
	Vento 0	N	2.327	2.327	2.327	2.327	2.327	2.327	2.327	2.327	2.327
		Vy	-10.289	-10.289	-10.289	-10.289	-10.289	-10.289	-10.289	-10.289	-10.289
		Vz	-18.344	-18.344	-18.344	-18.344	-18.344	-18.344	-18.344	-18.344	-18.344
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-28.56	-15.68	-2.79	10.10	22.99	35.88	48.76	61.65	74.54
		Mz	-16.14	-8.91	-1.68	5.55	12.78	20.01	27.23	34.46	41.69
	Vento 180	N	4.248	4.248	4.248	4.248	4.248	4.248	4.248	4.248	4.248

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		Vy	10.666	10.666	10.666	10.666	10.666	10.666	10.666	10.666	10.666
		Vz	19.077	19.077	19.077	19.077	19.077	19.077	19.077	19.077	19.077
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	29.47	16.07	2.67	-10.74	-24.14	-37.54	-50.95	-64.35	-77.75
		Mz	16.57	9.07	1.58	-5.92	-13.41	-20.90	-28.40	-35.89	-43.38
	Multidão (Passeio)	N	2.981	2.981	2.981	2.981	2.981	2.981	2.981	2.981	2.981
		Vy	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276
		Vz	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.02	1.66	1.30	0.94	0.58	0.22	-0.14	-0.50	-0.86
		Mz	1.13	0.94	0.74	0.55	0.36	0.16	-0.03	-0.22	-0.42
	Multidão - TB450	N	2.445	2.445	2.445	2.445	2.445	2.445	2.445	2.445	2.445
		Vy	4.096	4.096	4.096	4.096	4.096	4.096	4.096	4.096	4.096
		Vz	6.961	6.961	6.961	6.961	6.961	6.961	6.961	6.961	6.961
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	26.49	21.60	16.71	11.82	6.93	2.04	-2.85	-7.74	-12.63
		Mz	15.63	12.76	9.88	7.00	4.12	1.25	-1.63	-4.51	-7.39
	TB-450-A1	N	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214	-0.214
		Vy	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
		Vz	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.13	0.00	0.12	0.24	0.36	0.48	0.60	0.72	0.84
		Mz	-0.07	0.00	0.07	0.14	0.21	0.28	0.35	0.42	0.49
	TB-450-A2	N	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150	-0.150
		Vy	-0.141	-0.141	-0.141	-0.141	-0.141	-0.141	-0.141	-0.141	-0.141
		Vz	-0.233	-0.233	-0.233	-0.233	-0.233	-0.233	-0.233	-0.233	-0.233
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.37	-0.21	-0.05	0.12	0.28	0.44	0.61	0.77	0.93
		Mz	-0.24	-0.14	-0.04	0.06	0.16	0.25	0.35	0.45	0.55
	TB-450-B1	N	8.136	8.136	8.136	8.136	8.136	8.136	8.136	8.136	8.136
		Vy	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082	-0.082
		Vz	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028	-0.028
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35
		Mz	-0.01	0.05	0.11	0.16	0.22	0.28	0.34	0.39	0.45
	TB-450-B2	N	5.624	5.624	5.624	5.624	5.624	5.624	5.624	5.624	5.624
		Vy	-0.116	-0.116	-0.116	-0.116	-0.116	-0.116	-0.116	-0.116	-0.116

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		Vz	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158	-0.158
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.55	-0.43	-0.32	-0.21	-0.10	0.01	0.12	0.23	0.34
		Mz	-0.42	-0.34	-0.26	-0.17	-0.09	-0.01	0.07	0.15	0.23
	TB-450-C1	N	-10.797	-10.797	-10.797	-10.797	-10.797	-10.797	-10.797	-10.797	-10.797
		Vy	5.863	5.863	5.863	5.863	5.863	5.863	5.863	5.863	5.863
		Vz	9.755	9.755	9.755	9.755	9.755	9.755	9.755	9.755	9.755
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	38.20	31.35	24.49	17.64	10.79	3.93	-2.92	-9.77	-16.63
		Mz	22.90	18.78	14.66	10.54	6.42	2.30	-1.82	-5.94	-10.06
	TB-450-C2	N	-6.910	-6.910	-6.910	-6.910	-6.910	-6.910	-6.910	-6.910	-6.910
		Vy	4.817	4.817	4.817	4.817	4.817	4.817	4.817	4.817	4.817
		Vz	8.073	8.073	8.073	8.073	8.073	8.073	8.073	8.073	8.073
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	29.18	23.51	17.83	12.16	6.49	0.82	-4.85	-10.53	-16.20
		Mz	17.34	13.96	10.57	7.19	3.81	0.42	-2.96	-6.35	-9.73
	TB-450-D1	N	2.662	2.662	2.662	2.662	2.662	2.662	2.662	2.662	2.662
		Vy	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063	-0.063
		Vz	-0.066	-0.066	-0.066	-0.066	-0.066	-0.066	-0.066	-0.066	-0.066
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.26	-0.21	-0.16	-0.12	-0.07	-0.03	0.02	0.07	0.11
		Mz	-0.21	-0.17	-0.12	-0.08	-0.04	0.01	0.05	0.09	0.14
	TB-450-D2	N	1.411	1.411	1.411	1.411	1.411	1.411	1.411	1.411	1.411
		Vy	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Vz	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.53	0.44	0.35	0.26	0.17	0.08	0.00	-0.09	-0.18
		Mz	0.23	0.19	0.16	0.13	0.10	0.07	0.04	0.01	-0.02
	TB-450-E1	N	3.603	3.603	3.603	3.603	3.603	3.603	3.603	3.603	3.603
		Vy	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
		Vz	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.09	-0.11	-0.13	-0.16	-0.18	-0.20	-0.22	-0.24	-0.27
		Mz	-0.10	-0.09	-0.09	-0.09	-0.09	-0.09	-0.08	-0.08	-0.08
	TB-450-E2	N	3.812	3.812	3.812	3.812	3.812	3.812	3.812	3.812	3.812
		Vy	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Vz	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.26	0.13	0.00	-0.13	-0.26	-0.39	-0.52	-0.65	-0.78
		Mz	0.08	0.03	-0.03	-0.08	-0.14	-0.19	-0.25	-0.30	-0.36

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
N11/N82	Peso próprio	N	3.277	3.284	3.291	3.298	3.306	3.313	3.320	3.327	3.334
		Vy	-1.010	-1.010	-1.010	-1.010	-1.010	-1.010	-1.010	-1.010	-1.010
		Vz	-5.146	-4.285	-3.424	-2.564	-1.703	-0.842	0.019	0.879	1.740
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-5.11	-1.79	0.92	3.02	4.52	5.41	5.70	5.39	4.47
		Mz	-1.03	-0.32	0.39	1.10	1.81	2.52	3.23	3.94	4.65
	Guarda Corpo	N	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
		Vy	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500
		Vz	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863	-0.863
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-1.48	-0.88	-0.27	0.33	0.94	1.55	2.15	2.76	3.37
		Mz	-0.81	-0.46	-0.11	0.25	0.60	0.95	1.30	1.65	2.00
	Laje	N	-2.320	-2.320	-2.320	-2.320	-2.320	-2.320	-2.320	-2.320	-2.320
		Vy	-5.273	-5.273	-5.273	-5.273	-5.273	-5.273	-5.273	-5.273	-5.273
		Vz	-9.262	-9.262	-9.262	-9.262	-9.262	-9.262	-9.262	-9.262	-9.262
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-16.18	-9.67	-3.17	3.34	9.85	16.35	22.86	29.37	35.87
		Mz	-8.53	-4.83	-1.12	2.58	6.29	9.99	13.70	17.40	21.11
	Pavimentação	N	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710	-1.710
		Vy	-2.983	-2.983	-2.983	-2.983	-2.983	-2.983	-2.983	-2.983	-2.983
		Vz	-5.247	-5.247	-5.247	-5.247	-5.247	-5.247	-5.247	-5.247	-5.247
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-9.19	-5.50	-1.82	1.87	5.56	9.24	12.93	16.62	20.30
		Mz	-4.83	-2.74	-0.64	1.45	3.55	5.65	7.74	9.84	11.94
	Recapeamento	N	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713	-0.713
		Vy	-1.338	-1.338	-1.338	-1.338	-1.338	-1.338	-1.338	-1.338	-1.338
		Vz	-2.353	-2.353	-2.353	-2.353	-2.353	-2.353	-2.353	-2.353	-2.353
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-4.11	-2.46	-0.81	0.84	2.50	4.15	5.80	7.46	9.11
		Mz	-2.17	-1.23	-0.28	0.66	1.60	2.54	3.48	4.42	5.36

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
	Vento 0	N	3.925	3.925	3.925	3.925	3.925	3.925	3.925	3.925	3.925
		Vy	-11.497	-11.497	-11.497	-11.497	-11.497	-11.497	-11.497	-11.497	-11.497
		Vz	-19.500	-19.500	-19.500	-19.500	-19.500	-19.500	-19.500	-19.500	-19.500
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	-79.26	-65.56	-51.86	-38.16	-24.46	-10.76	2.94	16.64	30.34
		Mz	-46.50	-38.43	-30.35	-22.27	-14.19	-6.12	1.96	10.04	18.12
	Vento 180	N	1.521	1.521	1.521	1.521	1.521	1.521	1.521	1.521	1.521
		Vy	11.095	11.095	11.095	11.095	11.095	11.095	11.095	11.095	11.095
		Vz	18.817	18.817	18.817	18.817	18.817	18.817	18.817	18.817	18.817
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	76.29	63.07	49.84	36.62	23.40	10.18	-3.04	-16.26	-29.48
		Mz	44.74	36.94	29.15	21.35	13.56	5.76	-2.03	-9.83	-17.62
	Multidão (Passeio)	N	2.376	2.376	2.376	2.376	2.376	2.376	2.376	2.376	2.376
		Vy	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317	-0.317
		Vz	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514	-0.514
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.83	-0.47	-0.11	0.25	0.61	0.98	1.34	1.70	2.06
		Mz	-0.51	-0.29	-0.06	0.16	0.38	0.60	0.83	1.05	1.27
	Multidão - TB450	N	-5.322	-5.322	-5.322	-5.322	-5.322	-5.322	-5.322	-5.322	-5.322
		Vy	-3.878	-3.878	-3.878	-3.878	-3.878	-3.878	-3.878	-3.878	-3.878
		Vz	-6.870	-6.870	-6.870	-6.870	-6.870	-6.870	-6.870	-6.870	-6.870
		Mt	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		My	-12.10	-7.27	-2.45	2.38	7.21	12.03	16.86	21.69	26.51
		Mz	-6.28	-3.55	-0.83	1.89	4.62	7.34	10.07	12.79	15.52
	TB-450-A1	N	3.506	3.506	3.506	3.506	3.506	3.506	3.506	3.506	3.506
		Vy	-0.169	-0.169	-0.169	-0.169	-0.169	-0.169	-0.169	-0.169	-0.169
		Vz	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.86	-0.71	-0.55	-0.40	-0.24	-0.08	0.07	0.23	0.39
		Mz	-0.61	-0.49	-0.38	-0.26	-0.14	-0.02	0.10	0.22	0.34
	TB-450-A2	N	3.509	3.509	3.509	3.509	3.509	3.509	3.509	3.509	3.509
		Vy	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132	-0.132
		Vz	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171	-0.171
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.81	-0.69	-0.57	-0.45	-0.33	-0.21	-0.09	0.04	0.16
		Mz	-0.56	-0.47	-0.38	-0.28	-0.19	-0.10	-0.01	0.09	0.18
	TB-450-B1	N	1.871	1.871	1.871	1.871	1.871	1.871	1.871	1.871	1.871

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		Vy	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099	-0.099
		Vz	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.20	-0.10	0.00	0.09	0.19	0.28	0.38	0.48	0.57
		Mz	-0.20	-0.13	-0.06	0.01	0.08	0.15	0.22	0.29	0.36
	TB-450-B2	N	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164	-0.164
		Vy	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
		Vz	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.09	0.05	0.01	-0.04	-0.08	-0.12	-0.17	-0.21	-0.26
		Mz	0.10	0.06	0.02	-0.01	-0.05	-0.09	-0.13	-0.17	-0.21
	TB-450-C1	N	-15.656	-15.656	-15.656	-15.656	-15.656	-15.656	-15.656	-15.656	-15.656
		Vy	-4.287	-4.287	-4.287	-4.287	-4.287	-4.287	-4.287	-4.287	-4.287
		Vz	-7.861	-7.861	-7.861	-7.861	-7.861	-7.861	-7.861	-7.861	-7.861
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-15.31	-9.78	-4.26	1.26	6.79	12.31	17.83	23.35	28.88
		Mz	-7.59	-4.57	-1.56	1.45	4.46	7.47	10.49	13.50	16.51
	TB-450-C2	N	-15.121	-15.121	-15.121	-15.121	-15.121	-15.121	-15.121	-15.121	-15.121
		Vy	-5.397	-5.397	-5.397	-5.397	-5.397	-5.397	-5.397	-5.397	-5.397
		Vz	-9.551	-9.551	-9.551	-9.551	-9.551	-9.551	-9.551	-9.551	-9.551
		Mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		My	-15.72	-9.01	-2.30	4.41	11.12	17.83	24.54	31.25	37.96
		Mz	-8.07	-4.28	-0.48	3.31	7.10	10.89	14.68	18.48	22.27
	TB-450-D1	N	6.775	6.775	6.775	6.775	6.775	6.775	6.775	6.775	6.775
		Vy	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Vz	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.22	0.15	0.09	0.02	-0.05	-0.11	-0.18	-0.25	-0.31
		Mz	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
	TB-450-D2	N	5.409	5.409	5.409	5.409	5.409	5.409	5.409	5.409	5.409
		Vy	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074	-0.074
		Vz	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021	-0.021
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.20	0.21	0.23	0.24	0.26	0.27	0.29	0.31	0.32
		Mz	-0.08	-0.02	0.03	0.08	0.13	0.18	0.24	0.29	0.34
	TB-450-E1	N	-0.337	-0.337	-0.337	-0.337	-0.337	-0.337	-0.337	-0.337	-0.337
		Vy	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
		Vz	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.44	0.36	0.28	0.20	0.13	0.05	-0.03	-0.10	-0.18
		Mz	0.25	0.20	0.16	0.11	0.06	0.01	-0.04	-0.09	-0.13
	TB-450-E2	N	-1.336	-1.336	-1.336	-1.336	-1.336	-1.336	-1.336	-1.336	-1.336
		Vy	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
		Vz	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.86	0.74	0.61	0.48	0.36	0.23	0.10	-0.02	-0.15
		Mz	0.55	0.46	0.37	0.28	0.20	0.11	0.02	-0.07	-0.15

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
N82/N9	Peso próprio	N	5.602	5.609	5.616	5.623	5.631	5.638	5.645	5.652	5.659
		Vy	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426
		Vz	-3.510	-2.439	-1.368	-0.296	0.775	1.847	2.918	3.990	5.061
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	-0.21	2.39	4.05	4.78	4.57	3.42	1.34	-1.68	-5.64
		Mz	2.80	2.43	2.05	1.68	1.31	0.94	0.56	0.19	-0.18
	Guarda Corpo	N	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481
		Vy	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287
		Vz	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	2.32	1.87	1.42	0.97	0.52	0.07	-0.38	-0.83	-1.28
		Mz	1.34	1.09	0.84	0.59	0.34	0.09	-0.16	-0.41	-0.66
	Laje	N	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910
		Vy	3.097	3.097	3.097	3.097	3.097	3.097	3.097	3.097	3.097
		Vz	5.607	5.607	5.607	5.607	5.607	5.607	5.607	5.607	5.607
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	24.94	20.03	15.13	10.23	5.32	0.42	-4.48	-9.39	-14.29
		Mz	14.27	11.57	8.86	6.15	3.44	0.73	-1.98	-4.68	-7.39
	Pavimentação	N	2.314	2.314	2.314	2.314	2.314	2.314	2.314	2.314	2.314
		Vy	1.753	1.753	1.753	1.753	1.753	1.753	1.753	1.753	1.753
		Vz	3.176	3.176	3.176	3.176	3.176	3.176	3.176	3.176	3.176
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	14.10	11.32	8.54	5.76	2.98	0.21	-2.57	-5.35	-8.13

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Mz	8.06	6.53	5.00	3.46	1.93	0.40	-1.14	-2.67	-4.20
	Recapeamento	N	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102
		Vy	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787
		Vz	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425
		Mt	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		My	6.33	5.09	3.84	2.59	1.35	0.10	-1.15	-2.39	-3.64
		Mz	3.62	2.94	2.25	1.56	0.87	0.18	-0.50	-1.19	-1.88
	Vento 0	N	30.235	30.235	30.235	30.235	30.235	30.235	30.235	30.235	30.235
		Vy	8.878	8.878	8.878	8.878	8.878	8.878	8.878	8.878	8.878
		Vz	15.580	15.580	15.580	15.580	15.580	15.580	15.580	15.580	15.580
		Mt	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		My	35.31	21.68	8.05	-5.57	-19.20	-32.82	-46.45	-60.07	-73.70
		Mz	19.68	11.91	4.15	-3.61	-11.38	-19.14	-26.91	-34.67	-42.44
	Vento 180	N	-23.286	-23.286	-23.286	-23.286	-23.286	-23.286	-23.286	-23.286	-23.286
		Vy	-8.542	-8.542	-8.542	-8.542	-8.542	-8.542	-8.542	-8.542	-8.542
		Vz	-15.011	-15.011	-15.011	-15.011	-15.011	-15.011	-15.011	-15.011	-15.011
		Mt	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
		My	-34.28	-21.15	-8.02	5.10	18.23	31.36	44.49	57.61	70.74
		Mz	-19.08	-11.61	-4.14	3.33	10.80	18.27	25.74	33.21	40.68
	Multidão (Passeio)	N	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213	3.213
		Vy	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
		Vz	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	1.39	1.13	0.88	0.63	0.38	0.12	-0.13	-0.38	-0.63
		Mz	0.83	0.68	0.54	0.39	0.25	0.10	-0.05	-0.19	-0.34
	Multidão - TB450	N	-0.586	-0.586	-0.586	-0.586	-0.586	-0.586	-0.586	-0.586	-0.586
		Vy	2.305	2.305	2.305	2.305	2.305	2.305	2.305	2.305	2.305
		Vz	4.192	4.192	4.192	4.192	4.192	4.192	4.192	4.192	4.192
		Mt	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		My	18.49	14.83	11.16	7.50	3.83	0.16	-3.50	-7.17	-10.83
		Mz	10.54	8.52	6.51	4.49	2.47	0.46	-1.56	-3.57	-5.59
	TB-450-A1	N	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263	-0.263
		Vy	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
		Vz	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.37	0.23	0.08	-0.07	-0.22	-0.36	-0.51	-0.66	-0.80
		Mz	0.19	0.11	0.03	-0.05	-0.12	-0.20	-0.28	-0.35	-0.43

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
	TB-450-A2	N	-0.527	-0.527	-0.527	-0.527	-0.527	-0.527	-0.527	-0.527	-0.527
		Vy	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
		Vz	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.51	0.34	0.18	0.02	-0.15	-0.31	-0.47	-0.64	-0.80
		Mz	0.25	0.17	0.08	0.00	-0.09	-0.18	-0.26	-0.35	-0.43
	TB-450-B1	N	7.656	7.656	7.656	7.656	7.656	7.656	7.656	7.656	7.656
		Vy	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044
		Vz	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107	-0.107
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.31	-0.22	-0.12	-0.03	0.06	0.16	0.25	0.34	0.44
		Mz	-0.06	-0.02	0.02	0.06	0.09	0.13	0.17	0.21	0.25
	TB-450-B2	N	9.333	9.333	9.333	9.333	9.333	9.333	9.333	9.333	9.333
		Vy	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
		Vz	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044	-0.044
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.09	0.13	0.17	0.20	0.24	0.28	0.32	0.36	0.40
		Mz	0.22	0.19	0.17	0.14	0.11	0.08	0.06	0.03	0.00
	TB-450-C1	N	-12.174	-12.174	-12.174	-12.174	-12.174	-12.174	-12.174	-12.174	-12.174
		Vy	2.421	2.421	2.421	2.421	2.421	2.421	2.421	2.421	2.421
		Vz	4.466	4.466	4.466	4.466	4.466	4.466	4.466	4.466	4.466
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	17.77	13.86	9.96	6.05	2.15	-1.76	-5.67	-9.57	-13.48
		Mz	9.98	7.86	5.74	3.63	1.51	-0.61	-2.73	-4.84	-6.96
	TB-450-C2	N	-15.757	-15.757	-15.757	-15.757	-15.757	-15.757	-15.757	-15.757	-15.757
		Vy	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424	3.424
		Vz	6.314	6.314	6.314	6.314	6.314	6.314	6.314	6.314	6.314
		Mt	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		My	29.19	23.67	18.15	12.63	7.11	1.58	-3.94	-9.46	-14.98
		Mz	16.41	13.41	10.42	7.42	4.43	1.43	-1.56	-4.56	-7.55
	TB-450-D1	N	1.585	1.585	1.585	1.585	1.585	1.585	1.585	1.585	1.585
		Vy	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		Vz	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.36	0.32	0.28	0.24	0.21	0.17	0.13	0.09	0.06
		Mz	0.21	0.19	0.17	0.15	0.14	0.12	0.10	0.09	0.07
	TB-450-D2	N	3.362	3.362	3.362	3.362	3.362	3.362	3.362	3.362	3.362

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		Vy	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vz	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036	-0.036
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.21	-0.17	-0.14	-0.11	-0.08	-0.05	-0.02	0.02	0.05
		Mz	-0.11	-0.10	-0.08	-0.07	-0.05	-0.04	-0.02	0.00	0.01
	TB-450-E1	N	3.108	3.108	3.108	3.108	3.108	3.108	3.108	3.108	3.108
		Vy	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		Vz	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.18	-0.10	-0.02	0.06	0.14	0.22	0.30	0.38	0.46
		Mz	-0.03	0.00	0.03	0.07	0.10	0.13	0.16	0.19	0.23
	TB-450-E2	N	4.209	4.209	4.209	4.209	4.209	4.209	4.209	4.209	4.209
		Vy	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095
		Vz	-0.201	-0.201	-0.201	-0.201	-0.201	-0.201	-0.201	-0.201	-0.201
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	-0.53	-0.35	-0.18	0.00	0.17	0.35	0.53	0.70	0.88
		Mz	-0.22	-0.14	-0.06	0.03	0.11	0.19	0.28	0.36	0.44

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N96/N97	Peso próprio	N	9.622	9.631	9.635	9.644	9.653	9.661	9.670	9.675	9.684
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.145	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058	-0.058
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-0.169	-0.169	-0.169	-0.169	-0.169	-0.169	-0.169	-0.169	-0.169
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações

Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041	-0.041
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
	TB-450-D1	N	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N97/N95	Peso próprio	N	10.517	10.526	10.535	10.539	10.548	10.557	10.566	10.570	10.579
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	-0.253	-0.181	-0.108	-0.072	0.000	0.072	0.145	0.181	0.253
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Guarda Corpo	N	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032	-0.032
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laje	N	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pavimentação	N	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129	-0.129
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Recapeamento	N	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 0	N	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vento 180	N	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178	-0.178
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão (Passeio)	N	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações											
Barra	Hipótese	Esforço	Posições na barra								
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Multidão - TB450	N	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A1	N	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-A2	N	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B1	N	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042	-0.042
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-B2	N	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043	-0.043
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C1	N	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055	-0.055
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Esforços em barras, por hipóteses/ações										
Barra	Hipótese	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-C2	N	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D1	N	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-D2	N	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E1	N	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TB-450-E2	N	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018	-0.018
		Vy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Vz	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		My	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Mz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2.1.1.2. Envoltórias

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
N1/N40	Aço laminado	$N_{mín}$	-2451.054	-2447.988	-2444.923	-2441.857	-2438.791	-2435.726	-2432.660	-2429.595	-2426.529

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
		$N_{máx}$	-1365.773	-1363.415	-1361.057	-1358.698	-1356.340	-1353.982	-1351.624	-1349.266	-1346.908
		$Vy_{mín}$	-8.787	-7.838	-6.889	-5.940	-4.991	-4.042	-3.093	-2.144	-1.979
		$Vy_{máx}$	2.611	2.611	2.611	2.611	2.611	2.611	2.611	2.611	2.611
		$Vz_{mín}$	60.410	60.938	61.465	61.992	62.520	63.047	63.574	64.102	64.629
		$Vz_{máx}$	108.230	108.916	109.601	110.287	110.972	111.658	112.344	113.029	113.715
		$Mt_{mín}$	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71
		$Mt_{máx}$	8.76	8.76	8.76	8.76	8.76	8.76	8.76	8.76	8.76
		$My_{mín}$	257.27	209.71	161.73	113.34	64.54	15.23	-63.86	-152.20	-241.07
		$My_{máx}$	459.99	375.22	289.90	204.05	117.66	30.73	-34.30	-84.34	-134.80
		$Mz_{mín}$	-24.71	-18.19	-12.42	-8.43	-6.88	-5.32	-3.77	-5.27	-7.01
		$Mz_{máx}$	9.65	7.61	5.56	3.51	1.47	1.70	4.13	5.88	6.88

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N188/N170	Aço laminado	$N_{mín}$	1072.580	1074.862	1077.145	1079.427	1081.710	1083.992	1086.275	1088.557	1090.840
		$N_{máx}$	1948.573	1951.540	1954.508	1957.475	1960.442	1963.409	1966.377	1969.344	1972.311
		$Vy_{mín}$	0.067	0.067	0.067	0.067	-0.681	-1.587	-2.493	-3.399	-4.305
		$Vy_{máx}$	2.977	2.071	1.165	0.604	0.604	0.604	0.604	0.604	0.604
		$Vz_{mín}$	-166.978	-166.542	-166.106	-165.670	-165.234	-164.798	-164.362	-163.926	-163.490
		$Vz_{máx}$	-91.468	-91.132	-90.797	-90.461	-90.126	-89.791	-89.455	-89.120	-88.784
		$Mt_{mín}$	-0.63	-0.63	-0.63	-0.63	-0.63	-0.63	-0.63	-0.63	-0.63
		$Mt_{máx}$	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
		$My_{mín}$	-598.46	-473.65	-349.18	-225.02	-101.20	11.58	78.65	145.48	212.05
		$My_{máx}$	-327.56	-259.23	-191.15	-123.32	-55.75	22.30	145.48	268.32	390.84
		$Mz_{mín}$	-1.68	-3.36	-4.57	-5.10	-4.96	-4.13	-4.39	-4.84	-5.30
		$Mz_{máx}$	-0.11	-0.16	-0.22	-0.27	-0.32	-0.37	-0.42	-0.22	2.67

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N189/N171	Aço laminado	$N_{mín}$	-1204.442	-1203.446	-1202.450	-1201.455	-1200.459	-1199.463	-1198.467	-1197.471	-1196.476
		$N_{máx}$	-655.157	-654.391	-653.625	-652.859	-652.093	-651.327	-650.561	-649.795	-649.029
		$Vy_{mín}$	-3.676	-2.747	-1.818	-0.889	-0.162	-0.162	-0.162	-0.162	-0.162
		$Vy_{máx}$	-0.013	-0.013	-0.013	-0.013	0.047	0.976	1.905	2.834	3.763
		$Vz_{mín}$	9.355	9.730	10.104	10.305	10.415	10.524	10.634	10.744	10.854
		$Vz_{máx}$	18.558	18.701	18.843	18.986	19.129	19.271	19.414	19.557	19.699
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	63.93	56.23	48.45	40.59	32.64	24.60	16.49	8.29	0.00
		$My_{máx}$	117.42	103.12	88.72	74.21	59.59	44.85	30.01	15.06	0.00
		$Mz_{mín}$	-0.99	-0.87	-0.74	-0.62	-0.50	-0.37	-0.25	-0.12	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		$Mz_{máx}$	0.29	2.75	4.49	5.52	5.85	5.45	4.35	2.53	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N190/N172	Aço laminado	$N_{mín}$	745.260	746.007	746.754	747.501	748.248	748.994	749.741	750.488	751.235
		$N_{máx}$	1376.310	1377.281	1378.252	1379.222	1380.193	1381.164	1382.135	1383.106	1384.076
		$Vy_{mín}$	-0.778	-0.778	-0.778	-0.778	-0.778	-0.778	-1.067	-1.973	-2.879
		$Vy_{máx}$	4.378	3.472	2.566	1.660	0.754	0.062	0.062	0.062	0.062
		$Vz_{mín}$	-92.217	-92.074	-91.932	-91.789	-91.647	-91.504	-91.361	-91.219	-91.076
		$Vz_{máx}$	-50.444	-50.334	-50.225	-50.115	-50.005	-49.895	-49.786	-49.676	-49.566
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-272.66	-203.70	-134.84	-66.09	1.03	38.80	76.10	113.32	150.46
		$My_{máx}$	-148.94	-111.23	-73.60	-36.05	3.01	71.09	139.51	207.84	276.05
		$Mz_{mín}$	-5.24	-4.66	-4.09	-3.51	-3.58	-3.81	-3.35	-2.22	-0.63
		$Mz_{máx}$	4.11	1.18	0.10	0.06	0.02	-0.03	-0.07	-0.11	-0.12

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N191/N173	Aço laminado	$N_{mín}$	-1151.249	-1150.254	-1149.258	-1148.262	-1147.266	-1146.270	-1145.275	-1144.279	-1143.283
		$N_{máx}$	-619.962	-619.196	-618.430	-617.664	-616.898	-616.132	-615.366	-614.600	-613.834
		$Vy_{mín}$	-4.550	-3.621	-2.692	-1.763	-0.834	-0.020	-0.020	-0.020	-0.020
		$Vy_{máx}$	0.905	0.905	0.905	0.905	0.905	0.905	1.029	1.958	2.887
		$Vz_{mín}$	42.120	42.230	42.339	42.449	42.559	42.669	42.778	42.888	42.998
		$Vz_{máx}$	77.822	77.964	78.107	78.250	78.392	78.535	78.678	78.820	78.963
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	132.62	100.26	67.82	35.29	2.60	-56.10	-116.41	-176.84	-237.37
		$My_{máx}$	243.83	184.06	124.19	64.46	4.89	-30.02	-62.81	-95.67	-128.62
		$Mz_{mín}$	-4.99	-1.86	-0.27	-0.26	-0.25	-0.23	-0.22	-0.21	-0.21
		$Mz_{máx}$	5.73	5.04	4.35	3.65	3.30	3.59	3.16	2.02	0.20

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N192/N174	Aço laminado	$N_{mín}$	587.372	588.118	588.865	589.612	590.359	591.105	591.852	592.599	593.346
		$N_{máx}$	1098.508	1099.479	1100.449	1101.420	1102.391	1103.362	1104.333	1105.303	1106.274
		$Vy_{mín}$	-0.572	-0.572	-0.572	-0.572	-0.572	-0.572	-1.154	-2.060	-2.966
		$Vy_{máx}$	4.324	3.418	2.512	1.606	0.700	0.201	0.201	0.201	0.201

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		$Vz_{mín}$	-73.742	-73.599	-73.456	-73.314	-73.171	-73.028	-72.886	-72.743	-72.600
		$Vz_{máx}$	-39.216	-39.106	-38.996	-38.886	-38.777	-38.667	-38.557	-38.447	-38.338
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-214.82	-159.69	-104.66	-49.74	2.64	32.06	60.96	89.77	118.50
		$My_{máx}$	-113.66	-84.35	-55.13	-25.98	5.94	59.79	114.39	168.89	223.27
		$Mz_{mín}$	-3.70	-3.27	-2.84	-2.90	-3.73	-3.89	-3.36	-2.16	-0.28
		$Mz_{máx}$	3.94	1.18	1.03	0.88	0.73	0.58	0.43	0.28	0.13

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N193/N176	Aço laminado	$N_{mín}$	-746.110	-745.114	-744.118	-743.123	-742.127	-741.131	-740.135	-739.139	-738.144
		$N_{máx}$	-377.186	-376.420	-375.654	-374.888	-374.122	-373.356	-372.590	-371.824	-371.058
		$Vy_{mín}$	-4.562	-3.633	-2.704	-1.775	-0.846	-0.181	-0.181	-0.181	-0.181
		$Vy_{máx}$	0.691	0.691	0.691	0.691	0.691	0.691	1.053	1.982	2.911
		$Vz_{mín}$	27.448	27.557	27.667	27.777	27.887	27.996	28.106	28.216	28.326
		$Vz_{máx}$	53.434	53.576	53.719	53.862	54.004	54.147	54.290	54.432	54.575
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	89.31	68.21	47.02	25.75	4.39	-33.68	-75.28	-116.99	-158.81
		$My_{máx}$	172.69	131.63	90.47	49.20	8.33	-17.05	-38.57	-60.18	-81.87
		$Mz_{mín}$	-7.13	-3.98	-2.25	-2.11	-1.98	-1.84	-1.70	-1.56	-1.93
		$Mz_{máx}$	4.93	4.40	3.87	3.34	2.81	2.28	1.75	1.22	0.69

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N194/N175	Aço laminado	$N_{mín}$	363.736	364.483	365.230	365.977	366.723	367.470	368.217	368.964	369.710
		$N_{máx}$	733.084	734.055	735.026	735.997	736.968	737.938	738.909	739.880	740.851
		$Vy_{mín}$	-5.739	-5.739	-5.739	-5.739	-5.739	-5.739	-5.739	-5.739	-5.739
		$Vy_{máx}$	16.018	15.112	14.206	13.300	12.394	11.488	10.582	9.676	8.769
		$Vz_{mín}$	-40.909	-40.767	-40.624	-40.482	-40.339	-40.196	-40.054	-39.911	-39.768
		$Vz_{máx}$	-20.528	-20.419	-20.309	-20.199	-20.089	-19.980	-19.870	-19.760	-19.651
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-115.92	-85.35	-54.89	-24.54	2.75	18.30	33.21	48.04	62.79
		$My_{máx}$	-57.49	-42.17	-26.93	-11.77	6.19	35.84	65.87	95.79	125.61
		$Mz_{mín}$	-33.31	-29.02	-24.72	-20.43	-16.13	-11.84	-7.54	-3.24	-2.46
		$Mz_{máx}$	71.74	60.09	49.12	38.83	29.21	20.28	12.02	4.44	1.05

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
N195/N178	Aço laminado	$N_{mín}$	-119.387	-118.387	-117.387	-116.386	-115.386	-114.386	-113.386	-112.386	-111.386
		$N_{máx}$	23.622	24.391	25.160	25.929	26.699	27.468	28.237	29.007	29.776
		$Vy_{mín}$	-15.670	-14.738	-13.805	-12.872	-11.939	-11.006	-10.073	-9.140	-8.207
		$Vy_{máx}$	5.458	5.458	5.458	5.458	5.458	5.458	5.458	5.458	5.458
		$Vz_{mín}$	9.938	10.047	10.157	10.267	10.376	10.486	10.596	10.705	10.815
		$Vz_{máx}$	21.543	21.686	21.828	21.971	22.113	22.256	22.398	22.541	22.683
		$Mt_{mín}$	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		$Mt_{máx}$	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		$My_{mín}$	35.23	27.53	19.75	11.88	3.93	-10.12	-27.32	-44.63	-62.05
		$My_{máx}$	74.25	57.60	40.84	24.14	7.86	-2.62	-11.39	-20.26	-28.73
		$Mz_{mín}$	-69.84	-58.13	-47.13	-36.86	-27.30	-18.46	-10.34	-3.34	-2.30
		$Mz_{máx}$	31.35	27.14	22.94	18.73	14.52	10.32	6.11	1.91	3.75

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
N196/N177	Aço laminado	$N_{mín}$	128.845	129.621	130.397	131.174	131.950	132.726	133.503	134.279	135.055
		$N_{máx}$	295.567	296.577	297.586	298.595	299.604	300.614	301.623	302.632	303.641
		$Vy_{mín}$	0.073	0.073	0.073	0.073	0.055	-0.887	-1.828	-2.769	-3.710
		$Vy_{máx}$	3.866	2.924	1.983	1.042	0.190	0.190	0.190	0.190	0.190
		$Vz_{mín}$	-9.518	-9.375	-9.233	-9.091	-8.948	-8.806	-8.664	-8.521	-8.379
		$Vz_{máx}$	-0.109	0.000	0.110	0.219	0.329	0.438	0.548	0.657	0.767
		$Mt_{mín}$	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	-23.72	-16.38	-9.15	-2.27	2.80	4.05	3.67	3.20	2.65
		$My_{máx}$	4.69	4.74	4.69	4.82	5.81	11.89	18.68	25.36	31.93
		$Mz_{mín}$	0.15	-1.09	-2.96	-4.10	-4.51	-4.19	-3.14	-1.35	-0.32
		$Mz_{máx}$	2.63	2.48	2.33	2.19	2.04	1.89	1.75	1.60	1.51

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
N197/N179	Aço laminado	$N_{mín}$	131.617	132.390	133.163	133.935	134.708	135.480	136.253	137.025	137.798
		$N_{máx}$	299.673	300.677	301.682	302.686	303.690	304.695	305.699	306.703	307.708
		$Vy_{mín}$	-9.149	-8.212	-7.275	-6.339	-5.402	-4.465	-3.528	-2.592	-1.655
		$Vy_{máx}$	4.806	4.806	4.806	4.806	4.806	4.806	4.806	4.806	4.806
		$Vz_{mín}$	-9.900	-9.757	-9.615	-9.473	-9.330	-9.188	-9.046	-8.903	-8.761
		$Vz_{máx}$	-0.306	-0.196	-0.087	0.023	0.132	0.242	0.351	0.461	0.570

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	-24.94	-17.33	-9.84	-2.63	2.54	4.07	3.84	3.52	3.13
		$My_{máx}$	3.95	4.14	4.25	4.45	5.64	11.99	19.04	25.98	32.82
		$Mz_{mín}$	-7.42	-2.42	-2.96	-6.64	-10.32	-13.99	-17.67	-21.35	-25.02
		$Mz_{máx}$	4.94	1.22	5.75	10.98	15.48	19.25	22.30	24.63	26.23

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
N198/N180	Aço laminado	$N_{mín}$	-126.239	-125.234	-124.229	-123.224	-122.219	-121.214	-120.209	-119.204	-118.199
		$N_{máx}$	18.886	19.660	20.433	21.206	21.979	22.752	23.525	24.298	25.071
		$Vy_{mín}$	-9.380	-9.380	-9.380	-9.380	-9.380	-9.380	-9.380	-9.380	-9.380
		$Vy_{máx}$	18.331	17.393	16.456	15.518	14.581	13.644	12.706	11.769	10.831
		$Vz_{mín}$	8.546	8.655	8.765	8.875	8.985	9.094	9.204	9.314	9.423
		$Vz_{máx}$	21.515	21.658	21.800	21.943	22.086	22.228	22.371	22.514	22.656
		$Mt_{mín}$	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	31.00	24.34	17.59	10.77	3.85	-9.90	-27.17	-44.54	-62.03
		$My_{máx}$	74.77	58.06	41.23	24.68	8.18	-2.50	-10.23	-17.40	-24.65
		$Mz_{mín}$	-30.18	-22.92	-15.66	-8.39	-1.13	-4.55	-14.16	-23.04	-31.32
		$Mz_{máx}$	58.99	45.16	32.06	19.68	10.56	7.79	14.45	21.12	27.92

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N199/N181	Aço laminado	$N_{mín}$	346.797	347.540	348.283	349.026	349.769	350.512	351.255	351.998	352.741
		$N_{máx}$	723.675	724.641	725.607	726.573	727.539	728.504	729.470	730.436	731.402
		$Vy_{mín}$	-13.379	-12.477	-11.576	-10.674	-9.772	-8.871	-7.969	-7.067	-6.166
		$Vy_{máx}$	4.736	4.736	4.736	4.736	4.736	4.736	4.736	4.736	4.736
		$Vz_{mín}$	-41.527	-41.384	-41.242	-41.099	-40.956	-40.813	-40.670	-40.527	-40.384
		$Vz_{máx}$	-19.456	-19.346	-19.236	-19.126	-19.016	-18.906	-18.796	-18.686	-18.577
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	-117.73	-86.85	-56.09	-25.43	3.02	17.63	31.67	45.63	59.50
		$My_{máx}$	-53.79	-39.34	-24.98	-10.69	5.71	35.58	65.92	96.15	126.28
		$Mz_{mín}$	-55.23	-45.60	-36.64	-28.36	-20.74	-13.80	-7.53	-2.51	-1.70
		$Mz_{máx}$	26.51	22.99	19.46	15.93	12.40	8.88	5.35	1.82	2.99

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N200/N182	Aço laminado	$N_{mín}$	-746.084	-745.083	-744.082	-743.082	-742.081	-741.080	-740.080	-739.079	-738.078
		$N_{máx}$	-366.107	-365.337	-364.567	-363.797	-363.027	-362.258	-361.488	-360.718	-359.948
		$Vy_{mín}$	-0.716	-0.716	-0.716	-0.716	-0.716	-0.716	-1.039	-1.972	-2.906
		$Vy_{máx}$	4.601	3.668	2.734	1.801	0.867	0.174	0.174	0.174	0.174
		$Vz_{mín}$	25.993	26.103	26.213	26.323	26.433	26.543	26.653	26.763	26.873
		$Vz_{máx}$	51.876	52.019	52.162	52.305	52.448	52.591	52.734	52.877	53.019
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	85.27	65.18	45.01	24.76	4.05	-32.74	-73.34	-114.06	-154.88
		$My_{máx}$	168.64	128.58	88.42	48.14	8.29	-16.01	-36.51	-57.11	-77.78
		$Mz_{mín}$	-4.50	-3.95	-3.40	-2.85	-2.71	-2.99	-2.55	-1.39	-0.09
		$Mz_{máx}$	6.06	2.87	1.70	1.57	1.43	1.30	1.17	1.05	0.93

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N201/N183	Aço laminado	$N_{mín}$	572.108	572.851	573.594	574.337	575.080	575.823	576.566	577.309	578.052
		$N_{máx}$	1080.653	1081.619	1082.585	1083.551	1084.517	1085.482	1086.448	1087.414	1088.380
		$Vy_{mín}$	-4.218	-3.316	-2.414	-1.513	-0.611	-0.197	-0.197	-0.197	-0.197
		$Vy_{máx}$	0.481	0.481	0.481	0.481	0.481	0.481	1.236	2.138	3.040
		$Vz_{mín}$	-73.578	-73.435	-73.292	-73.149	-73.006	-72.863	-72.720	-72.577	-72.434
		$Vz_{máx}$	-38.603	-38.493	-38.383	-38.274	-38.164	-38.054	-37.944	-37.834	-37.724
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-213.32	-158.57	-103.94	-49.41	3.11	31.49	59.79	88.00	116.14
		$My_{máx}$	-111.23	-82.52	-53.90	-25.35	5.90	59.33	113.54	167.64	221.64
		$Mz_{mín}$	-3.52	-1.16	-1.01	-0.87	-0.72	-0.57	-0.43	-0.28	-0.14
		$Mz_{máx}$	3.25	2.89	2.54	3.08	3.84	3.92	3.34	2.08	0.39

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N202/N184	Aço laminado	$N_{mín}$	-1120.505	-1119.504	-1118.503	-1117.503	-1116.502	-1115.501	-1114.500	-1113.500	-1112.499
		$N_{máx}$	-597.670	-596.901	-596.131	-595.361	-594.591	-593.821	-593.052	-592.282	-591.512
		$Vy_{mín}$	-0.860	-0.860	-0.860	-0.860	-0.860	-0.860	-0.998	-1.932	-2.865
		$Vy_{máx}$	4.630	3.696	2.763	1.829	0.896	0.091	0.091	0.091	0.091
		$Vz_{mín}$	40.073	40.183	40.293	40.403	40.513	40.623	40.733	40.843	40.953
		$Vz_{máx}$	74.836	74.979	75.122	75.265	75.408	75.551	75.693	75.836	75.979
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	126.62	95.68	64.66	33.55	1.70	-54.56	-112.87	-171.29	-229.82

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
		$My_{máx}$	235.33	177.57	119.70	61.99	4.41	-28.93	-60.29	-91.74	-123.28
		$Mz_{mín}$	-5.67	-5.01	-4.35	-3.68	-3.13	-3.44	-3.04	-1.91	-0.38
		$Mz_{máx}$	5.47	2.26	0.52	0.45	0.38	0.32	0.25	0.18	0.11

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N203/N185	Aço laminado	$N_{mín}$	715.789	716.532	717.275	718.018	718.761	719.504	720.247	720.990	721.733
		$N_{máx}$	1331.550	1332.515	1333.481	1334.447	1335.413	1336.379	1337.345	1338.311	1339.276
		$Vy_{mín}$	-4.518	-3.616	-2.714	-1.813	-0.911	-0.115	-0.115	-0.115	-0.115
		$Vy_{máx}$	0.869	0.869	0.869	0.869	0.869	0.869	0.916	1.818	2.719
		$Vz_{mín}$	-87.816	-87.673	-87.531	-87.388	-87.245	-87.102	-86.959	-86.816	-86.673
		$Vz_{máx}$	-47.601	-47.491	-47.381	-47.271	-47.161	-47.051	-46.941	-46.831	-46.721
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-260.99	-195.64	-130.40	-65.27	-0.65	35.07	70.07	104.99	139.82
		$My_{máx}$	-141.15	-105.74	-70.42	-35.17	0.70	64.67	129.49	194.19	258.79
		$Mz_{mín}$	-4.76	-1.73	-0.52	-0.44	-0.35	-0.27	-0.18	-0.10	-0.03
		$Mz_{máx}$	5.19	4.54	3.90	3.25	3.41	3.73	3.39	2.37	0.68

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N204/N186	Aço laminado	$N_{mín}$	-1160.409	-1159.408	-1158.407	-1157.407	-1156.406	-1155.405	-1154.404	-1153.404	-1152.403
		$N_{máx}$	-625.941	-625.171	-624.402	-623.632	-622.862	-622.092	-621.322	-620.553	-619.783
		$Vy_{mín}$	-0.020	-0.020	-0.020	-0.020	-0.199	-1.133	-2.066	-3.000	-3.934
		$Vy_{máx}$	3.545	2.611	1.678	0.744	0.274	0.274	0.274	0.274	0.274
		$Vz_{mín}$	37.486	37.596	37.706	37.816	37.926	38.036	38.146	38.255	38.365
		$Vz_{máx}$	69.324	69.467	69.610	69.753	69.896	70.039	70.182	70.325	70.468
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	113.56	84.62	55.59	26.47	-5.30	-59.19	-113.25	-167.42	-221.70
		$My_{máx}$	209.45	155.94	102.32	48.59	-2.73	-32.01	-61.38	-90.84	-120.38
		$Mz_{mín}$	-0.43	-2.79	-4.44	-5.37	-5.58	-5.07	-3.84	-1.89	-0.85
		$Mz_{máx}$	0.84	0.63	0.42	0.21	0.00	-0.03	-0.02	0.00	0.80

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N205/N187	Aço laminado	$N_{mín}$	1019.473	1021.744	1024.015	1026.286	1028.557	1030.827	1033.098	1035.369	1037.640
		$N_{máx}$	1870.603	1873.556	1876.508	1879.460	1882.412	1885.364	1888.317	1891.269	1894.221

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		$Vy_{mín}$	-2.869	-1.968	-1.066	-0.311	-0.311	-0.311	-0.311	-0.311	-0.311
		$Vy_{máx}$	0.172	0.172	0.172	0.172	0.783	1.684	2.586	3.488	4.389
		$Vz_{mín}$	-158.819	-158.382	-157.945	-157.508	-157.071	-156.634	-156.197	-155.760	-155.324
		$Vz_{máx}$	-86.738	-86.402	-86.066	-85.730	-85.394	-85.058	-84.722	-84.386	-84.050
		$Mt_{mín}$	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61
		$Mt_{máx}$	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		$My_{mín}$	-567.03	-448.92	-331.13	-213.67	-96.68	10.57	73.79	136.76	199.48
		$My_{máx}$	-309.28	-244.80	-180.58	-116.61	-52.89	20.28	136.77	252.93	368.76
		$Mz_{mín}$	-0.24	-0.36	-0.49	-0.62	-0.75	-0.87	-1.00	-1.13	-3.37
		$Mz_{máx}$	1.36	3.16	4.29	4.75	4.53	3.65	2.61	2.84	3.07

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
N6/N57	Aço laminado	$N_{mín}$	-2466.213	-2463.124	-2460.035	-2456.946	-2453.856	-2450.767	-2447.678	-2444.589	-2441.500
		$N_{máx}$	-1360.617	-1358.241	-1355.864	-1353.488	-1351.112	-1348.735	-1346.359	-1343.983	-1341.607
		$Vy_{mín}$	-4.831	-4.831	-4.831	-4.831	-4.831	-4.831	-4.831	-4.831	-4.831
		$Vy_{máx}$	6.189	5.233	4.277	3.321	2.365	1.409	0.453	-0.503	-1.009
		$Vz_{mín}$	57.560	58.088	58.615	59.142	59.669	60.197	60.724	61.251	61.779
		$Vz_{máx}$	108.083	108.769	109.454	110.140	110.825	111.511	112.196	112.882	113.567
		$Mt_{mín}$	-4.89	-4.89	-4.89	-4.89	-4.89	-4.89	-4.89	-4.89	-4.89
		$Mt_{máx}$	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77
		$My_{mín}$	251.02	205.36	159.29	112.80	65.89	18.56	-55.49	-142.41	-229.86
		$My_{máx}$	473.31	387.69	301.54	214.84	127.60	39.82	-29.18	-77.34	-125.91
		$Mz_{mín}$	-23.89	-20.08	-16.26	-12.45	-8.63	-7.98	-8.38	-8.03	-6.92
		$Mz_{máx}$	8.11	3.60	-0.15	-3.15	-2.99	-2.19	-0.24	3.24	6.72

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
N216/N231	Aço laminado	$N_{mín}$	-118.383	-117.378	-116.373	-115.368	-114.363	-113.358	-112.353	-111.348	-110.343
		$N_{máx}$	25.304	26.077	26.850	27.623	28.396	29.169	29.942	30.715	31.488
		$Vy_{mín}$	-21.166	-20.229	-19.291	-18.354	-17.417	-16.479	-15.542	-14.605	-13.667
		$Vy_{máx}$	10.591	10.591	10.591	10.591	10.591	10.591	10.591	10.591	10.591
		$Vz_{mín}$	9.322	9.700	10.077	10.362	10.471	10.581	10.691	10.801	10.910
		$Vz_{máx}$	20.910	21.053	21.195	21.338	21.481	21.623	21.766	21.909	22.051
		$Mt_{mín}$	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		$Mt_{máx}$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		$My_{mín}$	35.44	27.63	19.74	11.76	3.69	-9.57	-26.36	-43.27	-60.29
		$My_{máx}$	72.76	56.52	40.16	23.88	8.00	-2.23	-10.73	-19.31	-27.98
		$Mz_{mín}$	-75.35	-59.32	-44.02	-29.45	-15.60	-9.75	-13.31	-20.69	-28.33

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.774 m	1.548 m	2.323 m	3.097 m	3.871 m	4.645 m	5.420 m	6.194 m
		$Mz_{máx}$	37.27	29.07	20.87	12.67	4.47	-0.26	11.29	22.14	32.53

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N217/N230	Aço laminado	$N_{mín}$	361.452	362.195	362.938	363.680	364.423	365.166	365.909	366.652	367.395
		$N_{máx}$	724.068	725.034	725.999	726.965	727.931	728.897	729.863	730.829	731.795
		$Vy_{mín}$	-6.081	-6.081	-6.081	-6.081	-6.081	-6.081	-6.081	-6.081	-6.081
		$Vy_{máx}$	16.293	15.391	14.490	13.588	12.686	11.785	10.883	9.982	9.080
		$Vz_{mín}$	-40.993	-40.850	-40.707	-40.565	-40.422	-40.279	-40.136	-39.993	-39.850
		$Vz_{máx}$	-20.544	-20.434	-20.324	-20.214	-20.105	-19.995	-19.885	-19.775	-19.665
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	-115.74	-85.27	-54.90	-24.64	2.73	18.05	32.90	47.67	62.36
		$My_{máx}$	-57.42	-42.16	-26.99	-11.89	6.01	35.57	65.51	95.35	125.08
		$Mz_{mín}$	-34.29	-29.77	-25.24	-20.71	-16.18	-11.65	-7.12	-2.60	-3.22
		$Mz_{máx}$	72.36	60.56	49.43	38.98	29.19	20.08	11.64	3.87	1.93

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N218/N229	Aço laminado	$N_{mín}$	-745.583	-744.582	-743.581	-742.580	-741.580	-740.579	-739.578	-738.577	-737.577
		$N_{máx}$	-375.040	-374.270	-373.501	-372.731	-371.961	-371.191	-370.421	-369.652	-368.882
		$Vy_{mín}$	-4.601	-3.668	-2.734	-1.801	-0.867	-0.153	-0.153	-0.153	-0.153
		$Vy_{máx}$	0.757	0.757	0.757	0.757	0.757	0.757	1.031	1.964	2.898
		$Vz_{mín}$	26.569	26.679	26.789	26.899	27.009	27.119	27.229	27.339	27.449
		$Vz_{máx}$	51.934	52.077	52.220	52.363	52.506	52.649	52.792	52.935	53.078
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	87.04	66.52	45.90	25.20	4.42	-32.68	-73.33	-114.09	-154.96
		$My_{máx}$	168.92	128.82	88.61	48.29	8.37	-16.45	-37.40	-58.44	-79.56
		$Mz_{mín}$	-6.98	-3.79	-2.12	-2.00	-1.89	-1.77	-1.65	-1.54	-1.63
		$Mz_{máx}$	4.99	4.40	3.82	3.24	2.65	2.18	1.74	0.90	0.32

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N219/N228	Aço laminado	$N_{mín}$	577.753	578.496	579.239	579.982	580.725	581.468	582.211	582.954	583.697
		$N_{máx}$	1084.634	1085.600	1086.566	1087.532	1088.498	1089.464	1090.429	1091.395	1092.361

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		$Vy_{mín}$	-0.483	-0.483	-0.483	-0.483	-0.483	-0.483	-1.231	-2.133	-3.034
		$Vy_{máx}$	4.222	3.321	2.419	1.517	0.616	0.206	0.206	0.206	0.206
		$Vz_{mín}$	-73.834	-73.691	-73.548	-73.405	-73.262	-73.119	-72.976	-72.833	-72.690
		$Vz_{máx}$	-39.116	-39.006	-38.896	-38.786	-38.676	-38.566	-38.456	-38.346	-38.236
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-214.04	-159.11	-104.28	-49.56	2.65	31.81	60.49	89.09	117.60
		$My_{máx}$	-112.82	-83.73	-54.72	-25.80	5.93	59.55	113.95	168.25	222.44
		$Mz_{mín}$	-3.35	-3.00	-2.64	-3.10	-3.87	-3.96	-3.37	-2.12	-0.48
		$Mz_{máx}$	3.47	1.12	0.96	0.81	0.66	0.50	0.35	0.20	0.04

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N220/N227	Aço laminado	$N_{mín}$	-1124.995	-1123.994	-1122.994	-1121.993	-1120.992	-1119.991	-1118.991	-1117.990	-1116.989
		$N_{máx}$	-603.250	-602.480	-601.710	-600.940	-600.171	-599.401	-598.631	-597.861	-597.091
		$Vy_{mín}$	-4.471	-3.538	-2.604	-1.671	-0.737	-0.024	-0.024	-0.024	-0.024
		$Vy_{máx}$	0.789	0.789	0.789	0.789	0.789	0.789	1.133	2.066	3.000
		$Vz_{mín}$	40.509	40.619	40.729	40.839	40.949	41.059	41.169	41.279	41.389
		$Vz_{máx}$	75.130	75.273	75.416	75.559	75.702	75.845	75.988	76.131	76.274
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	128.02	96.74	65.38	33.93	2.33	-54.78	-113.31	-171.96	-230.72
		$My_{máx}$	236.24	178.26	120.17	62.21	4.42	-29.22	-60.92	-92.70	-124.57
		$Mz_{mín}$	-4.56	-1.47	-0.22	-0.20	-0.19	-0.17	-0.15	-0.14	-0.12
		$Mz_{máx}$	5.31	4.70	4.09	3.48	3.49	3.70	3.19	1.96	0.45

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N221/N226	Aço laminado	$N_{mín}$	721.227	721.970	722.713	723.456	724.199	724.942	725.685	726.428	727.171
		$N_{máx}$	1335.621	1336.587	1337.553	1338.518	1339.484	1340.450	1341.416	1342.382	1343.348
		$Vy_{mín}$	-0.841	-0.841	-0.841	-0.841	-0.841	-0.841	-1.074	-1.976	-2.877
		$Vy_{máx}$	4.342	3.440	2.539	1.637	0.736	0.020	0.020	0.020	0.020
		$Vz_{mín}$	-88.107	-87.964	-87.821	-87.678	-87.535	-87.392	-87.249	-87.106	-86.963
		$Vz_{máx}$	-48.043	-47.933	-47.823	-47.713	-47.603	-47.493	-47.383	-47.273	-47.163
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-261.87	-196.31	-130.85	-65.50	-0.77	35.31	70.63	105.88	141.04
		$My_{máx}$	-142.56	-106.83	-71.17	-35.60	0.62	64.88	129.90	194.83	259.64
		$Mz_{mín}$	-5.09	-4.46	-3.83	-3.21	-3.91	-4.11	-3.65	-2.51	-0.71

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
		$Mz_{máx}$	3.69	0.79	0.04	0.03	0.01	0.00	-0.02	-0.03	-0.03

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.771 m	1.542 m	2.313 m	3.084 m	3.855 m	4.626 m	5.397 m	6.168 m
N222/N225	Aço laminado	$N_{mín}$	-1164.226	-1163.225	-1162.224	-1161.224	-1160.223	-1159.222	-1158.221	-1157.221	-1156.220
		$N_{máx}$	-631.288	-630.519	-629.749	-628.979	-628.209	-627.439	-626.670	-625.900	-625.130
		$Vy_{mín}$	-3.569	-2.636	-1.702	-0.769	-0.291	-0.291	-0.291	-0.291	-0.291
		$Vy_{máx}$	-0.011	-0.011	-0.011	-0.011	0.172	1.105	2.039	2.972	3.906
		$Vz_{mín}$	37.714	37.824	37.934	38.044	38.154	38.264	38.373	38.483	38.593
		$Vz_{máx}$	69.532	69.675	69.818	69.961	70.104	70.247	70.390	70.533	70.676
		$Mt_{mín}$	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	114.23	85.11	55.91	26.62	-5.33	-59.38	-113.60	-167.93	-222.37
		$My_{máx}$	210.06	156.40	102.62	48.73	-2.44	-32.22	-61.77	-91.40	-121.11
		$Mz_{mín}$	-1.04	-0.82	-0.60	-0.37	-0.15	-0.07	-0.05	-0.04	-0.78
		$Mz_{máx}$	0.28	2.66	4.33	5.28	5.51	5.02	3.80	1.87	0.75

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.745 m	1.489 m	2.234 m	2.979 m	3.724 m	4.468 m	5.213 m	5.958 m
N223/N224	Aço laminado	$N_{mín}$	1018.827	1021.098	1023.369	1025.640	1027.911	1030.182	1032.453	1034.724	1036.995
		$N_{máx}$	1861.707	1864.659	1867.611	1870.563	1873.515	1876.467	1879.420	1882.372	1885.324
		$Vy_{mín}$	0.072	0.072	0.072	0.072	-0.572	-1.474	-2.375	-3.277	-4.179
		$Vy_{máx}$	3.071	2.169	1.267	0.510	0.510	0.510	0.510	0.510	0.510
		$Vz_{mín}$	-159.285	-158.849	-158.412	-157.975	-157.538	-157.101	-156.664	-156.227	-155.790
		$Vz_{máx}$	-86.970	-86.634	-86.298	-85.962	-85.626	-85.290	-84.954	-84.618	-84.282
		$Mt_{mín}$	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60
		$Mt_{máx}$	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		$My_{mín}$	-568.64	-450.18	-332.05	-214.24	-96.75	10.29	73.68	136.83	199.72
		$My_{máx}$	-310.42	-245.78	-181.38	-117.24	-53.35	20.40	137.24	253.75	369.93
		$Mz_{mín}$	-1.70	-3.65	-4.93	-5.54	-5.47	-4.74	-3.77	-4.15	-4.53
		$Mz_{máx}$	-0.12	-0.18	-0.23	-0.28	-0.34	-0.39	-0.45	-0.50	1.77

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
N13/N56	Aço laminado	$N_{mín}$	-2454.441	-2451.352	-2448.263	-2445.174	-2442.085	-2438.996	-2435.906	-2432.817	-2429.728
		$N_{máx}$	-1361.159	-1358.783	-1356.406	-1354.030	-1351.654	-1349.277	-1346.901	-1344.525	-1342.149
		$Vy_{mín}$	-8.649	-7.693	-6.737	-5.781	-4.825	-3.869	-2.913	-1.993	-1.993
		$Vy_{máx}$	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.790 m	1.579 m	2.369 m	3.159 m	3.948 m	4.738 m	5.527 m	6.317 m
		$Vz_{mín}$	59.614	60.141	60.668	61.196	61.723	62.250	62.778	63.305	63.832
		$Vz_{máx}$	107.009	107.694	108.380	109.065	109.751	110.436	111.122	111.807	112.493
		$Mt_{mín}$	-4.84	-4.84	-4.84	-4.84	-4.84	-4.84	-4.84	-4.84	-4.84
		$Mt_{máx}$	8.82	8.82	8.82	8.82	8.82	8.82	8.82	8.82	8.82
		$My_{mín}$	260.15	212.87	165.17	117.05	68.52	19.25	-55.75	-142.88	-230.55
		$My_{máx}$	467.59	382.82	297.51	211.66	125.27	38.34	-29.78	-79.56	-129.76
		$Mz_{mín}$	-23.56	-17.11	-11.41	-8.31	-6.74	-5.17	-3.62	-5.18	-6.75
		$Mz_{máx}$	8.52	6.64	4.76	2.87	0.99	2.35	4.68	6.28	7.13

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.784 m	1.568 m	2.352 m	3.136 m	3.919 m	4.703 m	5.487 m	6.271 m
N7/N41	Aço laminado	$N_{mín}$	-2417.810	-2414.744	-2411.678	-2408.613	-2405.547	-2402.482	-2399.416	-2396.350	-2393.285
		$N_{máx}$	-1348.911	-1346.552	-1344.194	-1341.836	-1339.478	-1337.120	-1334.762	-1332.403	-1330.045
		$Vy_{mín}$	-5.077	-5.077	-5.077	-5.077	-5.077	-5.077	-5.077	-5.077	-5.077
		$Vy_{máx}$	6.380	5.431	4.482	3.533	2.584	1.635	0.686	-0.263	-1.027
		$Vz_{mín}$	57.751	58.278	58.806	59.333	59.860	60.388	60.915	61.442	61.970
		$Vz_{máx}$	107.180	107.866	108.551	109.237	109.922	110.608	111.293	111.979	112.664
		$Mt_{mín}$	-4.77	-4.77	-4.77	-4.77	-4.77	-4.77	-4.77	-4.77	-4.77
		$Mt_{máx}$	8.68	8.68	8.68	8.68	8.68	8.68	8.68	8.68	8.68
		$My_{mín}$	246.51	201.03	155.14	108.83	62.12	14.98	-61.45	-148.96	-237.01
		$My_{máx}$	457.83	373.80	289.22	204.12	118.47	32.29	-32.56	-80.52	-128.89
		$Mz_{mín}$	-24.98	-21.00	-17.02	-13.04	-9.06	-7.42	-8.00	-7.83	-6.92
		$Mz_{máx}$	9.36	4.73	0.84	-2.30	-2.91	-2.09	-0.37	3.28	6.92

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N206/N241	Aço laminado	$N_{mín}$	1029.034	1031.317	1033.599	1035.882	1038.164	1040.447	1042.729	1045.012	1047.294
		$N_{máx}$	1864.504	1867.472	1870.439	1873.406	1876.373	1879.341	1882.308	1885.275	1888.242
		$Vy_{mín}$	-2.818	-1.912	-1.006	-0.339	-0.339	-0.339	-0.339	-0.339	-0.339
		$Vy_{máx}$	0.205	0.205	0.205	0.205	0.861	1.767	2.673	3.579	4.485
		$Vz_{mín}$	-157.362	-156.926	-156.490	-156.054	-155.618	-155.182	-154.746	-154.310	-153.874
		$Vz_{máx}$	-86.246	-85.911	-85.575	-85.240	-84.904	-84.569	-84.234	-83.898	-83.563
		$Mt_{mín}$	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67	-0.67
		$Mt_{máx}$	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
		$My_{mín}$	-562.18	-444.57	-327.29	-210.33	-93.70	12.17	75.33	138.25	200.91
		$My_{máx}$	-307.43	-243.01	-178.84	-114.92	-51.25	22.60	138.58	254.23	369.55
		$Mz_{mín}$	-0.24	-0.38	-0.52	-0.66	-0.81	-0.95	-1.09	-1.24	-4.14
		$Mz_{máx}$	1.52	2.84	3.93	4.35	4.08	3.14	3.03	3.29	3.54

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N207/N240	Aço laminado	$N_{mín}$	-1151.839	-1150.843	-1149.848	-1148.852	-1147.856	-1146.860	-1145.864	-1144.869	-1143.873
		$N_{máx}$	-623.466	-622.700	-621.934	-621.168	-620.402	-619.636	-618.870	-618.104	-617.338
		$Vy_{mín}$	0.012	0.012	0.012	0.012	-0.183	-1.112	-2.041	-2.970	-3.899
		$Vy_{máx}$	3.541	2.612	1.684	0.755	0.315	0.315	0.315	0.315	0.315
		$Vz_{mín}$	38.158	38.268	38.377	38.487	38.597	38.706	38.816	38.926	39.036
		$Vz_{máx}$	70.390	70.533	70.675	70.818	70.961	71.103	71.246	71.389	71.531
		$Mt_{mín}$	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	114.93	85.61	56.20	26.71	-5.51	-59.95	-114.57	-169.29	-224.12
		$My_{máx}$	211.46	157.40	103.22	48.94	-2.86	-32.52	-62.26	-92.08	-121.99
		$Mz_{mín}$	-0.48	-2.84	-4.49	-5.42	-5.64	-5.15	-3.95	-2.03	-1.03
		$Mz_{máx}$	0.92	0.68	0.45	0.21	-0.02	-0.09	-0.11	-0.12	0.66

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N208/N239	Aço laminado	$N_{mín}$	720.323	721.069	721.816	722.563	723.310	724.056	724.803	725.550	726.297
		$N_{máx}$	1336.734	1337.705	1338.676	1339.647	1340.618	1341.588	1342.559	1343.530	1344.501
		$Vy_{mín}$	-4.634	-3.728	-2.822	-1.916	-1.010	-0.150	-0.150	-0.150	-0.150
		$Vy_{máx}$	0.908	0.908	0.908	0.908	0.908	0.908	0.908	1.742	2.648
		$Vz_{mín}$	-86.609	-86.466	-86.324	-86.181	-86.038	-85.896	-85.753	-85.611	-85.468
		$Vz_{máx}$	-47.095	-46.985	-46.875	-46.765	-46.656	-46.546	-46.436	-46.327	-46.217
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-258.61	-193.85	-129.19	-64.63	-0.59	34.89	69.68	104.40	139.03
		$My_{máx}$	-140.31	-105.11	-69.99	-34.95	0.56	64.15	128.38	192.51	256.53
		$Mz_{mín}$	-5.32	-2.19	-0.62	-0.50	-0.39	-0.28	-0.17	-0.06	0.04
		$Mz_{máx}$	5.49	4.81	4.14	3.46	3.21	3.61	3.32	2.36	0.73

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N209/N238	Aço laminado	$N_{mín}$	-1111.278	-1110.282	-1109.287	-1108.291	-1107.295	-1106.299	-1105.303	-1104.308	-1103.312
		$N_{máx}$	-594.700	-593.934	-593.168	-592.402	-591.636	-590.870	-590.104	-589.338	-588.572
		$Vy_{mín}$	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957	-0.957	-1.820	-2.749
		$Vy_{máx}$	4.712	3.783	2.854	1.925	0.996	0.098	0.098	0.098	0.098
		$Vz_{mín}$	40.909	41.018	41.128	41.238	41.348	41.457	41.567	41.677	41.787
		$Vz_{máx}$	76.167	76.309	76.452	76.595	76.737	76.880	77.023	77.165	77.308
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	128.49	97.05	65.54	33.94	1.57	-55.50	-114.54	-173.70	-232.96
		$My_{máx}$	238.08	179.58	120.98	62.51	4.21	-29.51	-61.36	-93.30	-125.32

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
		$Mz_{mín}$	-6.04	-5.30	-4.57	-3.84	-3.10	-3.38	-3.06	-2.02	-0.28
		$Mz_{máx}$	5.86	2.60	0.56	0.48	0.41	0.33	0.26	0.19	0.13

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N210/N237	Aço laminado	$N_{mín}$	577.605	578.352	579.099	579.845	580.592	581.339	582.086	582.832	583.579
		$N_{máx}$	1087.480	1088.450	1089.421	1090.392	1091.363	1092.333	1093.304	1094.275	1095.246
		$Vy_{mín}$	-4.324	-3.418	-2.512	-1.605	-0.699	-0.212	-0.212	-0.212	-0.212
		$Vy_{máx}$	0.546	0.546	0.546	0.546	0.546	0.546	1.159	2.065	2.972
		$Vz_{mín}$	-72.741	-72.599	-72.456	-72.313	-72.171	-72.028	-71.886	-71.743	-71.600
		$Vz_{máx}$	-38.302	-38.192	-38.083	-37.973	-37.863	-37.753	-37.644	-37.534	-37.424
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-211.80	-157.41	-103.13	-48.96	3.15	31.44	59.66	87.79	115.84
		$My_{máx}$	-110.86	-82.23	-53.69	-25.23	5.98	59.07	112.92	166.67	220.31
		$Mz_{mín}$	-3.97	-1.28	-1.12	-0.97	-0.81	-0.65	-0.49	-0.33	-0.17
		$Mz_{máx}$	3.48	3.07	2.67	2.91	3.74	3.89	3.36	2.15	0.27

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.767 m	1.535 m	2.302 m	3.069 m	3.836 m	4.604 m	5.371 m	6.138 m
N211/N236	Aço laminado	$N_{mín}$	-741.111	-740.116	-739.120	-738.124	-737.128	-736.132	-735.137	-734.141	-733.145
		$N_{máx}$	-364.808	-364.042	-363.276	-362.510	-361.744	-360.978	-360.212	-359.446	-358.680
		$Vy_{mín}$	-0.708	-0.708	-0.708	-0.708	-0.708	-0.708	-1.040	-1.969	-2.898
		$Vy_{máx}$	4.574	3.645	2.716	1.787	0.858	0.177	0.177	0.177	0.177
		$Vz_{mín}$	26.645	26.755	26.864	26.974	27.084	27.194	27.303	27.413	27.523
		$Vz_{máx}$	52.914	53.057	53.200	53.342	53.485	53.628	53.770	53.913	54.055
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	86.78	66.29	45.72	25.07	3.90	-33.54	-74.75	-116.06	-157.48
		$My_{máx}$	170.83	130.17	89.41	48.53	8.09	-16.50	-37.40	-58.40	-79.47
		$Mz_{mín}$	-4.90	-4.36	-3.81	-3.27	-2.73	-2.41	-1.97	-1.10	-0.56
		$Mz_{máx}$	6.56	3.41	1.82	1.69	1.55	1.42	1.28	1.14	1.29

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
N212/N235	Aço laminado	$N_{mín}$	352.009	352.756	353.502	354.249	354.996	355.743	356.489	357.236	357.983
		$N_{máx}$	727.631	728.602	729.573	730.543	731.514	732.485	733.456	734.427	735.397

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.748 m	1.497 m	2.245 m	2.994 m	3.742 m	4.490 m	5.239 m	5.987 m
		$Vy_{mín}$	-13.751	-12.845	-11.938	-11.032	-10.126	-9.220	-8.314	-7.408	-6.502
		$Vy_{máx}$	5.117	5.117	5.117	5.117	5.117	5.117	5.117	5.117	5.117
		$Vz_{mín}$	-41.144	-41.001	-40.858	-40.716	-40.573	-40.430	-40.288	-40.145	-40.002
		$Vz_{máx}$	-19.413	-19.304	-19.194	-19.084	-18.974	-18.865	-18.755	-18.645	-18.536
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	-117.01	-86.27	-55.64	-25.11	3.12	17.75	31.83	45.83	59.74
		$My_{máx}$	-53.86	-39.38	-24.97	-10.65	5.87	35.62	65.82	95.92	125.91
		$Mz_{mín}$	-58.50	-48.55	-39.28	-30.68	-22.76	-15.52	-8.96	-3.08	-1.04
		$Mz_{máx}$	29.60	25.77	21.94	18.11	14.28	10.45	6.62	2.79	2.13

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.771 m	1.541 m	2.312 m	3.082 m	3.853 m	4.623 m	5.394 m	6.164 m
N213/N234	Aço laminado	$N_{mín}$	-126.049	-125.049	-124.049	-123.049	-122.049	-121.049	-120.049	-119.049	-118.049
		$N_{máx}$	18.204	18.973	19.743	20.512	21.281	22.051	22.820	23.589	24.358
		$Vy_{mín}$	-4.824	-4.824	-4.824	-4.824	-4.824	-4.824	-4.824	-4.824	-4.824
		$Vy_{máx}$	13.341	12.408	11.475	10.542	9.609	8.677	7.744	6.811	5.878
		$Vz_{mín}$	8.994	9.104	9.213	9.323	9.432	9.542	9.652	9.761	9.871
		$Vz_{máx}$	21.962	22.104	22.247	22.389	22.532	22.674	22.817	22.959	23.102
		$Mt_{mín}$	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		$Mt_{máx}$	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		$My_{mín}$	31.97	25.00	17.94	10.80	3.57	-10.33	-27.86	-45.49	-63.24
		$My_{máx}$	75.65	58.67	41.59	24.76	8.00	-2.79	-11.13	-18.61	-26.17
		$Mz_{mín}$	-27.52	-23.80	-20.08	-16.37	-12.65	-8.93	-5.22	-1.50	-3.42
		$Mz_{máx}$	55.81	45.89	36.69	28.21	20.44	13.40	7.07	2.49	2.22

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
N214/N233	Aço laminado	$N_{mín}$	125.209	125.985	126.761	127.538	128.314	129.090	129.867	130.643	131.419
		$N_{máx}$	302.130	303.139	304.148	305.157	306.167	307.176	308.185	309.194	310.204
		$Vy_{mín}$	-3.902	-2.961	-2.020	-1.079	-0.201	-0.201	-0.201	-0.201	-0.201
		$Vy_{máx}$	-0.050	-0.050	-0.050	-0.050	-0.050	0.853	1.794	2.736	3.677
		$Vz_{mín}$	-9.929	-9.787	-9.645	-9.502	-9.360	-9.217	-9.075	-8.933	-8.790
		$Vz_{máx}$	-0.446	-0.336	-0.227	-0.117	-0.008	0.102	0.211	0.321	0.430
		$Mt_{mín}$	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	-25.05	-17.39	-9.84	-2.58	2.89	4.27	4.15	3.95	3.65

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.777 m	1.555 m	2.332 m	3.110 m	3.887 m	4.665 m	5.442 m	6.219 m
		$My_{máx}$	3.61	3.91	4.13	4.45	5.75	12.16	19.27	26.27	33.16
		$Mz_{mín}$	-2.41	-2.26	-2.11	-1.95	-1.80	-1.64	-1.49	-1.33	-1.18
		$Mz_{máx}$	-0.26	1.42	3.32	4.49	4.93	4.63	3.60	1.85	0.06

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.774 m	1.547 m	2.321 m	3.095 m	3.869 m	4.642 m	5.416 m	6.190 m
N215/N232	Aço laminado	$N_{mín}$	126.330	127.102	127.875	128.648	129.420	130.193	130.965	131.738	132.511
		$N_{máx}$	291.617	292.621	293.626	294.630	295.634	296.639	297.643	298.647	299.652
		$Vy_{mín}$	-4.859	-4.859	-4.859	-4.859	-4.859	-4.859	-4.859	-4.859	-4.859
		$Vy_{máx}$	9.290	8.353	7.416	6.479	5.542	4.606	3.669	2.732	1.795
		$Vz_{mín}$	-9.390	-9.248	-9.106	-8.963	-8.821	-8.679	-8.536	-8.394	-8.252
		$Vz_{máx}$	0.111	0.220	0.330	0.439	0.549	0.658	0.768	0.877	0.987
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		$My_{mín}$	-23.39	-16.18	-9.08	-2.33	2.38	3.72	3.17	2.53	1.81
		$My_{máx}$	5.21	5.08	4.87	4.81	5.61	11.56	18.22	24.77	31.21
		$Mz_{mín}$	-5.42	-1.66	-5.30	-10.62	-15.22	-19.09	-22.24	-24.66	-26.36
		$Mz_{máx}$	8.11	2.54	2.58	6.28	9.99	13.70	17.41	21.11	24.82

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N1/N158	Aço laminado	$N_{mín}$	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195
		$N_{máx}$	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075
		$Vy_{mín}$	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377
		$Vy_{máx}$	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252
		$Vz_{mín}$	-261.130	-254.915	-248.700	-242.485	-236.270	-230.055	-223.840	-217.625	-211.410
		$Vz_{máx}$	-121.253	-117.425	-113.596	-109.768	-105.939	-102.111	-98.282	-94.454	-90.626
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	22.38	44.03	64.97	85.20	104.70	123.49	141.56	158.91
		$My_{máx}$	0.00	48.38	95.59	141.64	186.52	230.24	272.80	314.18	354.40
		$Mz_{mín}$	0.00	0.05	0.09	0.14	0.19	0.24	0.28	0.33	0.38
		$Mz_{máx}$	0.00	0.07	0.14	0.21	0.28	0.35	0.42	0.50	0.57

Envoltórias dos esforços em barras

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Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N158/N159	Aço laminado	$N_{mín}$	-1.195	-1.195	-1.195
		$N_{máx}$	2.075	2.075	2.075
		$Vy_{mín}$	-0.377	-0.377	-0.377
		$Vy_{máx}$	-0.252	-0.252	-0.252
		$Vz_{mín}$	-211.410	-203.337	-195.265
		$Vz_{máx}$	-90.626	-84.416	-78.206
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	158.91	176.41	192.68
		$My_{máx}$	354.40	395.88	435.74
		$Mz_{mín}$	0.38	0.43	0.48
		$Mz_{máx}$	0.57	0.64	0.72

Envoltórias dos esforços em barras

Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N159/N160	Aço laminado	$N_{mín}$	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195	-1.195
		$N_{máx}$	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075
		$Vy_{mín}$	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377	-0.377
		$Vy_{máx}$	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252	-0.252
		$Vz_{mín}$	-195.265	-167.809	-140.372	-126.653	-107.379	-92.377	-77.385	-69.889	-54.887
		$Vz_{máx}$	-78.206	-69.453	-60.706	-56.332	-47.578	-38.825	-30.078	-22.874	1.956
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	192.68	224.33	252.21	264.74	287.01	305.53	320.29	326.27	335.41
		$My_{máx}$	435.74	513.56	579.58	608.18	656.59	693.23	718.08	726.10	733.33
		$Mz_{mín}$	0.48	0.59	0.69	0.75	0.86	0.96	1.07	1.12	1.23
		$Mz_{máx}$	0.72	0.88	1.04	1.12	1.28	1.44	1.61	1.69	1.85

Envoltórias dos esforços em barras

Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N160/N77	Aço laminado	$N_{mín}$	-1.195	-1.195	-1.195	-1.195	-1.195
		$N_{máx}$	2.075	2.075	2.075	2.075	2.075
		$Vy_{mín}$	-0.377	-0.377	-0.377	-0.377	-0.377
		$Vy_{máx}$	-0.252	-0.252	-0.252	-0.252	-0.252

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Vz_{mín}$	-54.887	-47.669	-40.451	-33.234	-26.016
		$Vz_{máx}$	1.956	7.910	13.865	19.819	25.773
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	335.41	338.47	340.67	341.99	342.45
		$My_{máx}$	733.33	733.23	731.64	728.57	724.00
		$Mz_{mín}$	1.23	1.28	1.34	1.39	1.44
		$Mz_{máx}$	1.85	1.93	2.00	2.08	2.16

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N77/N163	Aço laminado	$N_{mín}$	-1.022	-1.022	-1.022	-1.022	-1.022
		$N_{máx}$	2.241	2.241	2.241	2.241	2.241
		$Vy_{mín}$	0.247	0.247	0.247	0.247	0.247
		$Vy_{máx}$	0.370	0.370	0.370	0.370	0.370
		$Vz_{mín}$	-25.776	-19.821	-13.867	-7.913	-1.958
		$Vz_{máx}$	26.013	33.231	40.449	47.666	54.884
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	342.43	341.98	340.65	338.46	335.40
		$My_{máx}$	723.99	728.55	731.63	733.22	733.32
		$Mz_{mín}$	1.41	1.36	1.31	1.26	1.21
		$Mz_{máx}$	2.12	2.04	1.96	1.89	1.81

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N163/N162	Aço laminado	$N_{mín}$	-1.022	-1.022	-1.022	-1.022	-1.022	-1.022	-1.022	-1.022	-1.022
		$N_{máx}$	2.241	2.241	2.241	2.241	2.241	2.241	2.241	2.241	2.241
		$Vy_{mín}$	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247
		$Vy_{máx}$	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
		$Vz_{mín}$	-1.958	22.872	34.449	38.823	47.576	56.330	65.077	69.451	78.204
		$Vz_{máx}$	54.884	69.886	84.878	92.374	107.377	126.650	154.087	167.806	195.262

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	335.40	326.26	313.37	305.53	287.01	264.73	238.73	224.32	192.67
		$My_{máx}$	733.32	726.09	707.11	693.22	656.58	608.17	548.03	513.56	435.73
		$Mz_{mín}$	1.21	1.10	1.00	0.94	0.84	0.73	0.63	0.57	0.47
		$Mz_{máx}$	1.81	1.65	1.50	1.42	1.26	1.10	0.94	0.86	0.70

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N162/N161	Aço laminado	$N_{mín}$	-1.022	-1.022	-1.022
		$N_{máx}$	2.241	2.241	2.241
		$Vy_{mín}$	0.247	0.247	0.247
		$Vy_{máx}$	0.370	0.370	0.370
		$Vz_{mín}$	78.204	84.414	90.623
		$Vz_{máx}$	195.262	203.335	211.407
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	192.67	176.41	158.91
		$My_{máx}$	435.73	395.87	354.40
		$Mz_{mín}$	0.47	0.42	0.37
		$Mz_{máx}$	0.70	0.63	0.55

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N161/N7	Aço laminado	$N_{mín}$	-1.022	-1.022	-1.022	-1.022	-1.022	-1.022	-1.022	-1.022	-1.022
		$N_{máx}$	2.241	2.241	2.241	2.241	2.241	2.241	2.241	2.241	2.241
		$Vy_{mín}$	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247
		$Vy_{máx}$	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
		$Vz_{mín}$	90.623	94.452	98.280	102.109	105.937	109.766	113.594	117.423	121.251
		$Vz_{máx}$	211.407	217.622	223.837	230.052	236.267	242.482	248.697	254.912	261.127
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	158.91	141.56	123.49	104.70	85.20	64.97	44.03	22.38	0.00
		$My_{máx}$	354.40	314.18	272.79	230.24	186.52	141.64	95.59	48.38	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		$Mz_{mín}$	0.37	0.32	0.28	0.23	0.18	0.14	0.09	0.05	0.00
		$Mz_{máx}$	0.55	0.49	0.42	0.35	0.28	0.21	0.14	0.07	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.187 m	0.375 m	0.562 m	0.750 m	0.937 m	1.125 m	1.312 m	1.500 m
N24/N152	Aço laminado	$N_{mín}$	-93.716	-93.716	-93.716	-93.716	-93.716	-93.716	-93.716	-93.716	-93.716
		$N_{máx}$	115.007	115.007	115.007	115.007	115.007	115.007	115.007	115.007	115.007
		$Vy_{mín}$	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		$Vy_{máx}$	2.371	2.371	2.371	2.371	2.371	2.371	2.371	2.371	2.371
		$Vz_{mín}$	-507.321	-495.394	-483.468	-471.541	-459.614	-447.687	-435.761	-423.834	-411.907
		$Vz_{máx}$	-228.837	-221.567	-214.297	-207.027	-199.757	-192.487	-185.217	-177.948	-170.678
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	42.23	83.09	122.59	160.72	197.50	232.91	266.95	299.64
		$My_{máx}$	0.00	94.00	185.77	275.30	362.60	447.66	530.48	611.07	689.42
		$Mz_{mín}$	0.00	-0.44	-0.89	-1.33	-1.78	-2.22	-2.67	-3.11	-3.56
		$Mz_{máx}$	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N152/N153	Aço laminado	$N_{mín}$	-93.716	-93.716	-93.716
		$N_{máx}$	115.007	115.007	115.007
		$Vy_{mín}$	-0.023	-0.023	-0.023
		$Vy_{máx}$	2.371	2.371	2.371
		$Vz_{mín}$	-411.907	-396.299	-380.691
		$Vz_{máx}$	-170.678	-158.671	-146.664
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	299.64	332.57	363.10
		$My_{máx}$	689.42	770.24	847.94
		$Mz_{mín}$	-3.56	-4.03	-4.51
		$Mz_{máx}$	0.04	0.04	0.04

Envoltórias dos esforços em barras

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Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N153/N154	Aço laminado	$N_{mín}$	-93.716	-93.716	-93.716	-93.716	-93.716	-93.716	-93.716	-93.716	-93.716
		$N_{máx}$	115.007	115.007	115.007	115.007	115.007	115.007	115.007	115.007	115.007
		$Vy_{mín}$	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		$Vy_{máx}$	2.371	2.371	2.371	2.371	2.371	2.371	2.371	2.371	2.371
		$Vz_{mín}$	-380.691	-326.928	-273.204	-246.342	-208.955	-180.101	-151.266	-136.849	-107.995
		$Vz_{máx}$	-146.664	-130.042	-113.432	-105.127	-88.505	-71.883	-55.272	-43.471	5.305
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	363.10	422.42	474.57	497.98	539.48	573.86	601.10	612.05	628.62
		$My_{máx}$	847.94	999.62	1128.17	1183.81	1277.89	1348.93	1396.89	1412.24	1425.68
		$Mz_{mín}$	-4.51	-5.52	-6.54	-7.05	-8.06	-9.08	-10.10	-10.60	-11.62
		$Mz_{máx}$	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.11

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N154/N78	Aço laminado	$N_{mín}$	-93.716	-93.716	-93.716	-93.716	-93.716
		$N_{máx}$	115.007	115.007	115.007	115.007	115.007
		$Vy_{mín}$	-0.023	-0.023	-0.023	-0.023	-0.023
		$Vy_{máx}$	2.371	2.371	2.371	2.371	2.371
		$Vz_{mín}$	-107.995	-94.113	-80.231	-66.349	-52.467
		$Vz_{máx}$	5.305	16.788	28.271	39.754	51.237
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	628.62	634.05	637.84	639.97	640.46
		$My_{máx}$	1425.68	1425.17	1421.80	1415.56	1406.52
		$Mz_{mín}$	-11.62	-12.11	-12.60	-13.09	-13.58
		$Mz_{máx}$	0.11	0.12	0.12	0.13	0.13

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
N78/N157	Aço laminado	$N_{mín}$	-101.651	-101.651	-101.651	-101.651	-101.651
		$N_{máx}$	107.306	107.306	107.306	107.306	107.306
		$Vy_{mín}$	-2.370	-2.370	-2.370	-2.370	-2.370
		$Vy_{máx}$	-0.047	-0.047	-0.047	-0.047	-0.047
		$Vz_{mín}$	-51.022	-39.539	-28.057	-16.574	-5.091

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
		$Vz_{máx}$	52.719	66.601	80.483	94.365	108.247
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	640.23	639.76	637.63	633.85	628.43
		$My_{máx}$	1407.97	1416.94	1423.13	1426.45	1426.91
		$Mz_{mín}$	-13.57	-13.08	-12.59	-12.10	-11.61
		$Mz_{máx}$	-0.27	-0.26	-0.25	-0.24	-0.23

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N157/N156	Aço laminado	$N_{mín}$	-101.651	-101.651	-101.651	-101.651	-101.651	-101.651	-101.651	-101.651	-101.651
		$N_{máx}$	107.306	107.306	107.306	107.306	107.306	107.306	107.306	107.306	107.306
		$Vy_{mín}$	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370
		$Vy_{máx}$	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		$Vz_{mín}$	-5.091	43.685	63.539	71.844	88.466	105.088	121.698	130.003	146.625
		$Vz_{máx}$	108.247	137.101	165.935	180.352	209.207	246.592	300.317	327.179	380.941
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	628.43	611.87	588.21	573.71	539.35	497.86	449.28	422.32	363.03
		$My_{máx}$	1426.91	1413.36	1376.80	1349.89	1278.75	1184.56	1067.41	1000.20	848.42
		$Mz_{mín}$	-11.61	-10.60	-9.58	-9.07	-8.06	-7.04	-6.03	-5.52	-4.50
		$Mz_{máx}$	-0.23	-0.21	-0.19	-0.18	-0.16	-0.14	-0.12	-0.11	-0.09

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N156/N155	Aço laminado	$N_{mín}$	-101.651	-101.651	-101.651
		$N_{máx}$	107.306	107.306	107.306
		$Vy_{mín}$	-2.370	-2.370	-2.370
		$Vy_{máx}$	-0.047	-0.047	-0.047
		$Vz_{mín}$	146.625	158.632	170.638
		$Vz_{máx}$	380.941	396.549	412.158
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	363.03	332.50	299.58

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		$My_{máx}$	848.42	770.67	689.80
		$Mz_{mín}$	-4.50	-4.03	-3.55
		$Mz_{máx}$	-0.09	-0.08	-0.07

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N155/N36	Aço laminado	$N_{mín}$	-101.651	-101.651	-101.651	-101.651	-101.651	-101.651	-101.651	-101.651	-101.651
		$N_{máx}$	107.306	107.306	107.306	107.306	107.306	107.306	107.306	107.306	107.306
		$Vy_{mín}$	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370	-2.370
		$Vy_{máx}$	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047	-0.047
		$Vz_{mín}$	170.638	177.908	185.178	192.448	199.718	206.988	214.258	221.528	228.798
		$Vz_{máx}$	412.158	424.085	436.011	447.938	459.865	471.792	483.718	495.645	507.572
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	299.58	266.90	232.86	197.46	160.69	122.56	83.07	42.22	0.00
		$My_{máx}$	689.80	611.40	530.77	447.90	362.79	275.45	185.87	94.05	0.00
		$Mz_{mín}$	-3.55	-3.11	-2.67	-2.22	-1.78	-1.33	-0.89	-0.44	0.00
		$Mz_{máx}$	-0.07	-0.06	-0.05	-0.04	-0.03	-0.03	-0.02	-0.01	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N2/N146	Aço laminado	$N_{mín}$	-43.780	-43.780	-43.780	-43.780	-43.780	-43.780	-43.780	-43.780	-43.780
		$N_{máx}$	49.661	49.661	49.661	49.661	49.661	49.661	49.661	49.661	49.661
		$Vy_{mín}$	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115
		$Vy_{máx}$	2.753	2.753	2.753	2.753	2.753	2.753	2.753	2.753	2.753
		$Vz_{mín}$	-446.291	-434.364	-422.437	-410.511	-398.584	-386.657	-374.730	-362.804	-350.877
		$Vz_{máx}$	-230.074	-222.804	-215.534	-208.264	-200.994	-193.724	-186.454	-179.184	-171.914
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	42.46	83.55	123.28	161.65	198.66	234.30	268.58	301.49
		$My_{máx}$	0.00	82.56	162.89	240.98	316.83	390.44	461.82	530.97	597.88
		$Mz_{mín}$	0.00	-0.52	-1.03	-1.55	-2.06	-2.58	-3.10	-3.61	-4.13
		$Mz_{máx}$	0.00	-0.21	-0.42	-0.63	-0.84	-1.04	-1.25	-1.46	-1.67

Envoltórias dos esforços em barras

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Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N146/N147	Aço laminado	$N_{mín}$	-43.780	-43.780	-43.780
		$N_{máx}$	49.661	49.661	49.661
		$Vy_{mín}$	1.115	1.115	1.115
		$Vy_{máx}$	2.753	2.753	2.753
		$Vz_{mín}$	-350.877	-335.268	-319.660
		$Vz_{máx}$	-171.914	-159.908	-147.901
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	301.49	334.67	365.45
		$My_{máx}$	597.88	666.49	731.98
		$Mz_{mín}$	-4.13	-4.68	-5.23
		$Mz_{máx}$	-1.67	-1.89	-2.12

Envoltórias dos esforços em barras

Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N147/N148	Aço laminado	$N_{mín}$	-43.780	-43.780	-43.780	-43.780	-43.780	-43.780	-43.780	-43.780	-43.780
		$N_{máx}$	49.661	49.661	49.661	49.661	49.661	49.661	49.661	49.661	49.661
		$Vy_{mín}$	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115
		$Vy_{máx}$	2.753	2.753	2.753	2.753	2.753	2.753	2.753	2.753	2.753
		$Vz_{mín}$	-319.660	-278.352	-237.072	-216.433	-183.282	-154.428	-125.593	-111.176	-82.322
		$Vz_{máx}$	-147.901	-131.279	-114.669	-106.364	-89.742	-73.120	-56.509	-48.204	-20.710
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	365.45	425.30	477.98	501.65	543.69	578.60	606.36	617.58	634.68
		$My_{máx}$	731.98	860.17	970.57	1019.14	1103.07	1169.29	1217.78	1235.39	1257.36
		$Mz_{mín}$	-5.23	-6.41	-7.59	-8.18	-9.36	-10.54	-11.72	-12.31	-13.49
		$Mz_{máx}$	-2.12	-2.60	-3.07	-3.31	-3.79	-4.27	-4.74	-4.98	-5.46

Envoltórias dos esforços em barras

Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N148/N79	Aço laminado	$N_{mín}$	-43.780	-43.780	-43.780	-43.780	-43.780
		$N_{máx}$	49.661	49.661	49.661	49.661	49.661
		$Vy_{mín}$	1.115	1.115	1.115	1.115	1.115
		$Vy_{máx}$	2.753	2.753	2.753	2.753	2.753
		$Vz_{mín}$	-82.322	-68.440	-54.558	-40.676	-26.794

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Vz_{máx}$	-20.710	-9.227	2.256	13.738	25.221
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	634.68	640.37	644.41	646.80	647.54
		$My_{máx}$	1257.36	1262.23	1264.25	1263.40	1259.69
		$Mz_{mín}$	-13.49	-14.06	-14.62	-15.19	-15.76
		$Mz_{máx}$	-5.46	-5.69	-5.92	-6.15	-6.38

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N79/N151	Aço laminado	$N_{mín}$	-53.071	-53.071	-53.071	-53.071	-53.071
		$N_{máx}$	51.483	51.483	51.483	51.483	51.483
		$Vy_{mín}$	-2.841	-2.841	-2.841	-2.841	-2.841
		$Vy_{máx}$	-1.183	-1.183	-1.183	-1.183	-1.183
		$Vz_{mín}$	-25.127	-13.644	-2.161	9.322	20.805
		$Vz_{máx}$	26.874	40.757	54.639	68.521	82.403
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	647.67	646.93	644.53	640.49	634.79
		$My_{máx}$	1260.16	1263.85	1264.68	1262.65	1257.76
		$Mz_{mín}$	-16.26	-15.68	-15.09	-14.51	-13.92
		$Mz_{máx}$	-6.77	-6.53	-6.29	-6.04	-5.80

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N151/N150	Aço laminado	$N_{mín}$	-53.071	-53.071	-53.071	-53.071	-53.071	-53.071	-53.071	-53.071	-53.071
		$N_{máx}$	51.483	51.483	51.483	51.483	51.483	51.483	51.483	51.483	51.483
		$Vy_{mín}$	-2.841	-2.841	-2.841	-2.841	-2.841	-2.841	-2.841	-2.841	-2.841
		$Vy_{máx}$	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183
		$Vz_{mín}$	20.805	48.228	64.838	73.143	89.765	106.387	122.998	131.303	147.925
		$Vz_{máx}$	82.403	111.257	140.091	154.508	183.363	216.514	257.794	278.433	319.742
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		$My_{mín}$	634.79	617.68	593.46	578.69	543.77	501.72	452.59	425.35	365.50
		$My_{máx}$	1257.76	1235.75	1196.08	1169.61	1103.35	1019.38	917.79	860.36	732.14
		$Mz_{mín}$	-13.92	-12.70	-11.48	-10.88	-9.66	-8.44	-7.22	-6.62	-5.40
		$Mz_{máx}$	-5.80	-5.29	-4.78	-4.53	-4.02	-3.52	-3.01	-2.76	-2.25

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N150/N149	Aço laminado	$N_{mín}$	-53.071	-53.071	-53.071
		$N_{máx}$	51.483	51.483	51.483
		$Vy_{mín}$	-2.841	-2.841	-2.841
		$Vy_{máx}$	-1.183	-1.183	-1.183
		$Vz_{mín}$	147.925	159.931	171.938
		$Vz_{máx}$	319.742	335.350	350.959
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	365.50	334.71	301.53
		$My_{máx}$	732.14	666.63	598.00
		$Mz_{mín}$	-5.40	-4.83	-4.26
		$Mz_{máx}$	-2.25	-2.01	-1.77

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N149/N8	Aço laminado	$N_{mín}$	-53.071	-53.071	-53.071	-53.071	-53.071	-53.071	-53.071	-53.071	-53.071
		$N_{máx}$	51.483	51.483	51.483	51.483	51.483	51.483	51.483	51.483	51.483
		$Vy_{mín}$	-2.841	-2.841	-2.841	-2.841	-2.841	-2.841	-2.841	-2.841	-2.841
		$Vy_{máx}$	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183	-1.183
		$Vz_{mín}$	171.938	179.208	186.478	193.748	201.017	208.287	215.557	222.827	230.097
		$Vz_{máx}$	350.959	362.885	374.812	386.739	398.666	410.593	422.519	434.446	446.373
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	301.53	268.61	234.32	198.68	161.67	123.30	83.56	42.46	0.00
		$My_{máx}$	598.00	531.08	461.92	390.52	316.89	241.02	162.92	82.58	0.00
		$Mz_{mín}$	-4.26	-3.73	-3.20	-2.66	-2.13	-1.60	-1.07	-0.53	0.00
		$Mz_{máx}$	-1.77	-1.55	-1.33	-1.11	-0.89	-0.67	-0.44	-0.22	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N25/N140	Aço laminado	$N_{mín}$	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028
		$N_{máx}$	45.381	45.381	45.381	45.381	45.381	45.381	45.381	45.381	45.381
		$Vy_{mín}$	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322
		$Vy_{máx}$	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989
		$Vz_{mín}$	-507.319	-495.392	-483.465	-471.539	-459.612	-447.685	-435.758	-423.832	-411.905
		$Vz_{máx}$	-230.135	-222.865	-215.595	-208.325	-201.055	-193.785	-186.515	-179.245	-171.975
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	42.47	83.57	123.32	161.70	198.71	234.37	268.66	301.58
		$My_{máx}$	0.00	94.00	185.77	275.30	362.60	447.66	530.48	611.07	689.42
		$Mz_{mín}$	0.00	-0.37	-0.75	-1.12	-1.49	-1.87	-2.24	-2.61	-2.98
		$Mz_{máx}$	0.00	-0.06	-0.12	-0.18	-0.24	-0.30	-0.36	-0.42	-0.48

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N140/N141	Aço laminado	$N_{mín}$	1.028	1.028	1.028
		$N_{máx}$	45.381	45.381	45.381
		$Vy_{mín}$	0.322	0.322	0.322
		$Vy_{máx}$	1.989	1.989	1.989
		$Vz_{mín}$	-411.905	-396.296	-380.689
		$Vz_{máx}$	-171.975	-159.969	-147.961
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	301.58	334.78	365.57
		$My_{máx}$	689.42	770.24	847.94
		$Mz_{mín}$	-2.98	-3.38	-3.78
		$Mz_{máx}$	-0.48	-0.55	-0.61

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N141/N142	Aço laminado	$N_{mín}$	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028
		$N_{máx}$	45.381	45.381	45.381	45.381	45.381	45.381	45.381	45.381	45.381
		$Vy_{mín}$	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322
		$Vy_{máx}$	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		$Vz_{mín}$	-380.689	-326.926	-273.202	-246.340	-208.944	-180.089	-151.255	-136.838	-107.983
		$Vz_{máx}$	-147.961	-131.339	-114.729	-106.424	-89.802	-73.180	-56.570	-43.484	5.292
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	365.57	425.44	478.15	501.83	543.89	578.83	606.62	617.85	634.98
		$My_{máx}$	847.94	999.61	1128.16	1183.80	1277.88	1348.92	1396.88	1412.23	1425.67
		$Mz_{mín}$	-3.78	-4.63	-5.49	-5.91	-6.76	-7.62	-8.47	-8.90	-9.75
		$Mz_{máx}$	-0.61	-0.75	-0.89	-0.96	-1.09	-1.23	-1.37	-1.44	-1.58

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.412 m	0.619 m	0.825 m
N142/N80	Aço laminado	$N_{mín}$	1.028	1.028	1.028	1.028	1.028
		$N_{máx}$	45.381	45.381	45.381	45.381	45.381
		$Vy_{mín}$	0.322	0.322	0.322	0.322	0.322
		$Vy_{máx}$	1.989	1.989	1.989	1.989	1.989
		$Vz_{mín}$	-107.983	-94.101	-80.219	-66.337	-52.462
		$Vz_{máx}$	5.292	16.775	28.258	39.741	51.230
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	634.98	640.68	644.73	647.14	647.89
		$My_{máx}$	1425.67	1425.16	1421.78	1415.55	1406.45
		$Mz_{mín}$	-9.75	-10.16	-10.57	-10.98	-11.39
		$Mz_{máx}$	-1.58	-1.64	-1.71	-1.78	-1.84

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N80/N145	Aço laminado	$N_{mín}$	-55.461	-55.461	-55.461	-55.461	-55.461
		$N_{máx}$	74.359	74.359	74.359	74.359	74.359
		$Vy_{mín}$	-2.046	-2.046	-2.046	-2.046	-2.046
		$Vy_{máx}$	-0.356	-0.356	-0.356	-0.356	-0.356
		$Vz_{mín}$	-50.904	-39.421	-27.938	-16.455	-4.972
		$Vz_{máx}$	52.841	66.723	80.605	94.487	108.370
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	648.70	647.92	645.49	641.41	635.68
		$My_{máx}$	1408.67	1417.68	1423.84	1427.13	1427.56
		$Mz_{mín}$	-11.71	-11.29	-10.87	-10.45	-10.02
		$Mz_{máx}$	-2.04	-1.96	-1.89	-1.82	-1.74

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N145/N144	Aço laminado	$N_{mín}$	-55.461	-55.461	-55.461	-55.461	-55.461	-55.461	-55.461	-55.461	-55.461
		$N_{máx}$	74.359	74.359	74.359	74.359	74.359	74.359	74.359	74.359	74.359
		$Vy_{mín}$	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046
		$Vy_{máx}$	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356
		$Vz_{mín}$	-4.972	43.803	65.018	73.323	89.945	106.567	123.177	131.483	148.105
		$Vz_{máx}$	108.370	137.224	166.058	180.475	209.330	246.725	300.450	327.312	381.074
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	635.68	618.49	594.19	579.37	544.38	502.26	453.04	425.77	365.84
		$My_{máx}$	1427.56	1413.96	1377.34	1350.40	1279.20	1184.95	1067.75	1000.51	848.67
		$Mz_{mín}$	-10.02	-9.15	-8.27	-7.83	-6.96	-6.08	-5.20	-4.76	-3.89
		$Mz_{máx}$	-1.74	-1.59	-1.44	-1.36	-1.21	-1.06	-0.91	-0.83	-0.68

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N144/N143	Aço laminado	$N_{mín}$	-55.461	-55.461	-55.461
		$N_{máx}$	74.359	74.359	74.359
		$Vy_{mín}$	-2.046	-2.046	-2.046
		$Vy_{máx}$	-0.356	-0.356	-0.356
		$Vz_{mín}$	148.105	160.111	172.118
		$Vz_{máx}$	381.074	396.683	412.291
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	365.84	335.02	301.80
		$My_{máx}$	848.67	770.89	690.00

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		$Mz_{mín}$	-3.89	-3.48	-3.07
		$Mz_{máx}$	-0.68	-0.61	-0.53

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N143/N37	Aço laminado	$N_{mín}$	-55.461	-55.461	-55.461	-55.461	-55.461	-55.461	-55.461	-55.461	-55.461
		$N_{máx}$	74.359	74.359	74.359	74.359	74.359	74.359	74.359	74.359	74.359
		$Vy_{mín}$	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046	-2.046
		$Vy_{máx}$	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356
		$Vz_{mín}$	172.118	179.388	186.657	193.927	201.197	208.467	215.737	223.007	230.277
		$Vz_{máx}$	412.291	424.218	436.145	448.071	459.998	471.925	483.852	495.778	507.705
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	301.80	268.84	234.53	198.85	161.80	123.40	83.63	42.50	0.00
		$My_{máx}$	690.00	611.57	530.92	448.02	362.89	275.52	185.92	94.08	0.00
		$Mz_{mín}$	-3.07	-2.69	-2.30	-1.92	-1.53	-1.15	-0.77	-0.38	0.00
		$Mz_{máx}$	-0.53	-0.47	-0.40	-0.33	-0.27	-0.20	-0.13	-0.07	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N3/N134	Aço laminado	$N_{mín}$	-61.911	-61.911	-61.911	-61.911	-61.911	-61.911	-61.911	-61.911	-61.911
		$N_{máx}$	-17.089	-17.089	-17.089	-17.089	-17.089	-17.089	-17.089	-17.089	-17.089
		$Vy_{mín}$	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181
		$Vy_{máx}$	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
		$Vz_{mín}$	-443.980	-432.076	-420.172	-408.267	-396.363	-384.459	-372.555	-360.651	-348.747
		$Vz_{máx}$	-229.158	-221.902	-214.645	-207.389	-200.133	-192.877	-185.620	-178.364	-171.108
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	42.29	83.21	122.78	160.98	197.83	233.31	267.44	300.20
		$My_{máx}$	0.00	82.13	162.03	239.69	315.13	388.33	459.30	528.04	594.55
		$Mz_{mín}$	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.06	-0.07
		$Mz_{máx}$	0.00	0.03	0.07	0.10	0.14	0.17	0.20	0.24	0.27

Envoltórias dos esforços em barras			
Barra	Tipo de combinação	Esforço	Posições na barra

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			0.000 m	0.200 m	0.400 m
N134/N135	Aço laminado	$N_{mín}$	-61.911	-61.911	-61.911
		$N_{máx}$	-17.089	-17.089	-17.089
		$Vy_{mín}$	-0.181	-0.181	-0.181
		$Vy_{máx}$	0.049	0.049	0.049
		$Vz_{mín}$	-348.747	-333.220	-317.702
		$Vz_{máx}$	-171.108	-159.164	-147.205
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	300.20	333.23	363.86
		$My_{máx}$	594.55	662.74	727.83
		$Mz_{mín}$	-0.07	-0.08	-0.09
		$Mz_{máx}$	0.27	0.31	0.34

Envoltórias dos esforços em barras

Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N135/N136	Aço laminado	$N_{mín}$	-61.911	-61.911	-61.911	-61.911	-61.911	-61.911	-61.911	-61.911	-61.911
		$N_{máx}$	-17.089	-17.089	-17.089	-17.089	-17.089	-17.089	-17.089	-17.089	-17.089
		$Vy_{mín}$	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181	-0.181
		$Vy_{máx}$	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
		$Vz_{mín}$	-317.702	-276.302	-234.931	-214.246	-181.014	-152.068	-123.143	-108.680	-79.734
		$Vz_{máx}$	-147.205	-130.502	-113.810	-105.464	-88.761	-72.057	-55.365	-47.020	-18.567
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	363.86	423.40	475.74	499.22	540.86	575.34	602.64	613.61	630.19
		$My_{máx}$	727.83	855.15	964.66	1012.76	1095.73	1160.95	1208.40	1225.48	1246.34
		$Mz_{mín}$	-0.09	-0.11	-0.14	-0.15	-0.17	-0.19	-0.21	-0.22	-0.24
		$Mz_{máx}$	0.34	0.42	0.50	0.54	0.61	0.69	0.77	0.81	0.89

Envoltórias dos esforços em barras

Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N136/N81	Aço laminado	$N_{mín}$	-61.911	-61.911	-61.911	-61.911	-61.911
		$N_{máx}$	-17.089	-17.089	-17.089	-17.089	-17.089
		$Vy_{mín}$	-0.181	-0.181	-0.181	-0.181	-0.181
		$Vy_{máx}$	0.049	0.049	0.049	0.049	0.049
		$Vz_{mín}$	-79.734	-65.879	-52.023	-38.168	-24.624
		$Vz_{máx}$	-18.567	-7.106	4.355	15.815	27.588

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	630.19	635.62	639.41	641.55	642.04
		$My_{máx}$	1246.34	1250.69	1252.17	1250.80	1246.57
		$Mz_{mín}$	-0.24	-0.25	-0.26	-0.27	-0.28
		$Mz_{máx}$	0.89	0.92	0.96	1.00	1.04

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N81/N139	Aço laminado	$N_{mín}$	-61.837	-61.837	-61.837	-61.837	-61.837
		$N_{máx}$	-17.107	-17.107	-17.107	-17.107	-17.107
		$Vy_{mín}$	-0.049	-0.049	-0.049	-0.049	-0.049
		$Vy_{máx}$	0.181	0.181	0.181	0.181	0.181
		$Vz_{mín}$	-27.013	-15.381	-3.920	7.540	19.001
		$Vz_{máx}$	25.106	38.791	52.646	66.502	80.357
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	642.04	641.45	639.22	635.33	629.80
		$My_{máx}$	1246.57	1250.60	1251.85	1250.24	1245.77
		$Mz_{mín}$	-0.28	-0.27	-0.26	-0.25	-0.24
		$Mz_{máx}$	1.04	1.00	0.96	0.92	0.89

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N139/N138	Aço laminado	$N_{mín}$	-61.837	-61.837	-61.837	-61.837	-61.837	-61.837	-61.837	-61.837	-61.837
		$N_{máx}$	-17.107	-17.107	-17.107	-17.107	-17.107	-17.107	-17.107	-17.107	-17.107
		$Vy_{mín}$	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		$Vy_{máx}$	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
		$Vz_{mín}$	19.001	47.375	63.954	72.244	88.835	105.425	122.004	130.294	146.885
		$Vz_{máx}$	80.357	109.157	137.936	152.325	181.125	214.182	255.406	276.018	317.271
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	629.80	613.04	589.19	574.60	540.07	498.42	449.70	422.68	363.26

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		$My_{máx}$	1245.77	1224.68	1185.93	1159.94	1094.65	1011.68	911.10	854.18	727.01
		$Mz_{mín}$	-0.24	-0.22	-0.20	-0.19	-0.17	-0.15	-0.12	-0.11	-0.09
		$Mz_{máx}$	0.89	0.81	0.73	0.69	0.61	0.54	0.46	0.42	0.34

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N138/N137	Aço laminado	$N_{mín}$	-61.837	-61.837	-61.837
		$N_{máx}$	-17.107	-17.107	-17.107
		$Vy_{mín}$	-0.049	-0.049	-0.049
		$Vy_{máx}$	0.181	0.181	0.181
		$Vz_{mín}$	146.885	158.843	170.787
		$Vz_{máx}$	317.271	332.789	348.316
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	363.26	332.68	299.72
		$My_{máx}$	727.01	662.01	593.90
		$Mz_{mín}$	-0.09	-0.08	-0.07
		$Mz_{máx}$	0.34	0.31	0.27

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N137/N9	Aço laminado	$N_{mín}$	-61.837	-61.837	-61.837	-61.837	-61.837	-61.837	-61.837	-61.837	-61.837
		$N_{máx}$	-17.107	-17.107	-17.107	-17.107	-17.107	-17.107	-17.107	-17.107	-17.107
		$Vy_{mín}$	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049	-0.049
		$Vy_{máx}$	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
		$Vz_{mín}$	170.787	178.044	185.300	192.556	199.812	207.069	214.325	221.581	228.837
		$Vz_{máx}$	348.316	360.221	372.125	384.029	395.933	407.837	419.741	431.645	443.549
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	299.72	267.02	232.95	197.53	160.74	122.60	83.09	42.23	0.00
		$My_{máx}$	593.90	527.47	458.82	387.93	314.81	239.45	161.87	82.05	0.00
		$Mz_{mín}$	-0.07	-0.06	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
		$Mz_{máx}$	0.27	0.24	0.20	0.17	0.14	0.10	0.07	0.03	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N164/N128	Aço laminado	$N_{mín}$	-58.899	-58.899	-58.899	-58.899	-58.899	-58.899	-58.899	-58.899	-58.899
		$N_{máx}$	90.503	90.503	90.503	90.503	90.503	90.503	90.503	90.503	90.503
		$Vy_{mín}$	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194
		$Vy_{máx}$	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957
		$Vz_{mín}$	-447.628	-435.747	-423.865	-411.984	-400.103	-388.222	-376.340	-364.459	-352.578
		$Vz_{máx}$	-191.892	-184.650	-177.407	-170.165	-162.922	-155.679	-148.437	-141.194	-133.952
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	35.30	69.24	101.83	133.06	162.92	191.44	218.59	244.38
		$My_{máx}$	0.00	82.82	163.41	241.77	317.90	391.80	463.48	532.93	600.15
		$Mz_{mín}$	0.00	-0.18	-0.36	-0.54	-0.72	-0.90	-1.08	-1.26	-1.43
		$Mz_{máx}$	0.00	0.04	0.07	0.11	0.15	0.18	0.22	0.25	0.29

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N128/N129	Aço laminado	$N_{mín}$	-58.899	-58.899	-58.899
		$N_{máx}$	90.503	90.503	90.503
		$Vy_{mín}$	-0.194	-0.194	-0.194
		$Vy_{máx}$	0.957	0.957	0.957
		$Vz_{mín}$	-352.578	-337.132	-322.102
		$Vz_{máx}$	-133.952	-122.070	-109.495
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	244.38	269.99	293.21
		$My_{máx}$	600.15	669.13	735.01
		$Mz_{mín}$	-1.43	-1.63	-1.82
		$Mz_{máx}$	0.29	0.33	0.37

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N129/N130	Aço laminado	$N_{mín}$	-58.899	-58.899	-58.899	-58.899	-58.899	-58.899	-58.899	-58.899	-58.899
		$N_{máx}$	90.503	90.503	90.503	90.503	90.503	90.503	90.503	90.503	90.503
		$Vy_{mín}$	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194
		$Vy_{máx}$	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957	0.957
		$Vz_{mín}$	-322.102	-268.256	-214.448	-187.544	-153.264	-124.227	-95.209	-80.701	-51.664

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		$Vz_{máx}$	-109.495	-92.710	-75.937	-67.550	-50.765	-33.980	-15.228	9.160	57.971
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	293.21	336.85	373.27	388.79	414.45	432.91	444.17	447.11	447.59
		$My_{máx}$	735.01	861.37	964.59	1007.55	1076.23	1121.83	1144.33	1146.94	1134.85
		$Mz_{mín}$	-1.82	-2.23	-2.64	-2.84	-3.25	-3.66	-4.07	-4.28	-4.69
		$Mz_{máx}$	0.37	0.45	0.53	0.58	0.66	0.74	0.83	0.87	0.95

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N130/N82	Aço laminado	$N_{mín}$	-58.899	-58.899	-58.899	-58.899	-58.899
		$N_{máx}$	90.503	90.503	90.503	90.503	90.503
		$Vy_{mín}$	-0.194	-0.194	-0.194	-0.194	-0.194
		$Vy_{máx}$	0.957	0.957	0.957	0.957	0.957
		$Vz_{mín}$	-51.664	-39.411	-27.844	-16.278	-4.711
		$Vz_{máx}$	57.971	70.986	84.687	98.389	112.090
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	447.59	445.27	441.30	435.70	428.45
		$My_{máx}$	1134.85	1122.06	1106.41	1087.91	1085.26
		$Mz_{mín}$	-4.69	-4.88	-5.08	-5.28	-5.48
		$Mz_{máx}$	0.95	0.99	1.03	1.07	1.11

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N82/N133	Aço laminado	$N_{mín}$	33.414	33.414	33.414	33.414	33.414
		$N_{máx}$	73.453	73.453	73.453	73.453	73.453
		$Vy_{mín}$	-0.670	-0.670	-0.670	-0.670	-0.670
		$Vy_{máx}$	0.123	0.123	0.123	0.123	0.123
		$Vz_{mín}$	-110.971	-97.269	-83.568	-69.867	-57.117
		$Vz_{máx}$	5.558	17.124	28.691	40.258	52.776
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$My_{mín}$	430.75	437.73	443.06	446.74	448.79
		$My_{máx}$	1084.63	1087.06	1105.33	1120.75	1133.32
		$Mz_{mín}$	-3.83	-3.70	-3.56	-3.42	-3.28
		$Mz_{máx}$	0.70	0.68	0.65	0.63	0.60

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N133/N132	Aço laminado	$N_{mín}$	33.414	33.414	33.414	33.414	33.414	33.414	33.414	33.414	33.414
		$N_{máx}$	73.453	73.453	73.453	73.453	73.453	73.453	73.453	73.453	73.453
		$Vy_{mín}$	-0.670	-0.670	-0.670	-0.670	-0.670	-0.670	-0.670	-0.670	-0.670
		$Vy_{máx}$	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123
		$Vz_{mín}$	-57.117	-8.532	26.478	34.752	51.312	67.871	84.419	92.693	109.252
		$Vz_{máx}$	52.776	81.520	110.244	124.606	153.350	187.338	240.854	267.611	321.164
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	448.79	447.78	439.68	432.98	414.23	388.38	355.46	336.34	292.76
		$My_{máx}$	1133.32	1144.99	1133.73	1119.50	1073.80	1005.15	913.61	859.24	733.22
		$Mz_{mín}$	-3.28	-2.99	-2.71	-2.56	-2.28	-1.99	-1.70	-1.56	-1.27
		$Mz_{máx}$	0.60	0.55	0.50	0.47	0.42	0.36	0.31	0.29	0.23

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N132/N131	Aço laminado	$N_{mín}$	33.414	33.414	33.414
		$N_{máx}$	73.453	73.453	73.453
		$Vy_{mín}$	-0.670	-0.670	-0.670
		$Vy_{máx}$	0.123	0.123	0.123
		$Vz_{mín}$	109.252	121.832	133.713
		$Vz_{máx}$	321.164	336.191	351.637
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	292.76	269.58	244.03
		$My_{máx}$	733.22	667.53	598.74
		$Mz_{mín}$	-1.27	-1.14	-1.00

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		$Mz_{máx}$	0.23	0.21	0.18

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N131/N10	Aço laminado	$N_{mín}$	33.414	33.414	33.414	33.414	33.414	33.414	33.414	33.414	33.414
		$N_{máx}$	73.453	73.453	73.453	73.453	73.453	73.453	73.453	73.453	73.453
		$Vy_{mín}$	-0.670	-0.670	-0.670	-0.670	-0.670	-0.670	-0.670	-0.670	-0.670
		$Vy_{máx}$	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123
		$Vz_{mín}$	133.713	140.956	148.199	155.441	162.684	169.926	177.169	184.411	191.654
		$Vz_{máx}$	351.637	363.518	375.399	387.281	399.162	411.043	422.925	434.806	446.687
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	244.03	218.28	191.17	162.70	132.88	101.69	69.15	35.26	0.00
		$My_{máx}$	598.74	531.70	462.42	390.92	317.19	241.24	163.05	82.64	0.00
		$Mz_{mín}$	-1.00	-0.88	-0.75	-0.63	-0.50	-0.38	-0.25	-0.13	0.00
		$Mz_{máx}$	0.18	0.16	0.14	0.11	0.09	0.07	0.05	0.02	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N4/N122	Aço laminado	$N_{mín}$	-41.017	-41.017	-41.017	-41.017	-41.017	-41.017	-41.017	-41.017	-41.017
		$N_{máx}$	3.040	3.040	3.040	3.040	3.040	3.040	3.040	3.040	3.040
		$Vy_{mín}$	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651
		$Vy_{máx}$	1.511	1.511	1.511	1.511	1.511	1.511	1.511	1.511	1.511
		$Vz_{mín}$	-445.439	-433.513	-421.587	-409.661	-397.735	-385.809	-373.883	-361.957	-350.030
		$Vz_{máx}$	-229.813	-222.544	-215.274	-208.005	-200.735	-193.466	-186.196	-178.927	-171.657
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	42.41	83.45	123.14	161.46	198.41	234.01	268.24	301.10
		$My_{máx}$	0.00	82.40	162.57	240.50	316.19	389.65	460.87	529.85	596.60
		$Mz_{mín}$	0.00	-0.28	-0.57	-0.85	-1.13	-1.42	-1.70	-1.98	-2.27
		$Mz_{máx}$	0.00	-0.12	-0.24	-0.37	-0.49	-0.61	-0.73	-0.85	-0.98

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N122/N123	Aço laminado	$N_{mín}$	-41.017	-41.017	-41.017
		$N_{máx}$	3.040	3.040	3.040
		$Vy_{mín}$	0.651	0.651	0.651
		$Vy_{máx}$	1.511	1.511	1.511
		$Vz_{mín}$	-350.030	-334.474	-318.923
		$Vz_{máx}$	-171.657	-159.691	-147.715
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	301.10	334.24	364.98
		$My_{máx}$	596.60	665.05	730.39
		$Mz_{mín}$	-2.27	-2.57	-2.87
		$Mz_{máx}$	-0.98	-1.11	-1.24

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N123/N124	Aço laminado	$N_{mín}$	-41.017	-41.017	-41.017	-41.017	-41.017	-41.017	-41.017	-41.017	-41.017
		$N_{máx}$	3.040	3.040	3.040	3.040	3.040	3.040	3.040	3.040	3.040
		$Vy_{mín}$	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651
		$Vy_{máx}$	1.511	1.511	1.511	1.511	1.511	1.511	1.511	1.511	1.511
		$Vz_{mín}$	-318.923	-277.422	-235.950	-215.214	-181.894	-152.894	-123.915	-109.426	-80.426
		$Vz_{máx}$	-147.715	-130.982	-114.259	-105.898	-89.165	-72.431	-55.709	-47.348	-19.003
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	364.98	424.72	477.26	500.84	542.65	577.29	604.75	615.79	632.50
		$My_{máx}$	730.39	858.22	968.18	1016.50	1099.86	1165.43	1213.19	1230.40	1251.51
		$Mz_{mín}$	-2.87	-3.52	-4.17	-4.49	-5.14	-5.79	-6.43	-6.76	-7.40
		$Mz_{máx}$	-1.24	-1.52	-1.80	-1.93	-2.21	-2.49	-2.77	-2.91	-3.19

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N124/N83	Aço laminado	$N_{mín}$	-41.017	-41.017	-41.017	-41.017	-41.017
		$N_{máx}$	3.040	3.040	3.040	3.040	3.040
		$Vy_{mín}$	0.651	0.651	0.651	0.651	0.651
		$Vy_{máx}$	1.511	1.511	1.511	1.511	1.511

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Vz_{mín}$	-80.426	-66.545	-52.664	-38.782	-25.143
		$Vz_{máx}$	-19.003	-7.520	3.962	15.444	27.169
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	632.50	637.99	641.83	644.03	644.57
		$My_{máx}$	1251.51	1255.96	1257.54	1256.26	1252.12
		$Mz_{mín}$	-7.40	-7.72	-8.03	-8.34	-8.65
		$Mz_{máx}$	-3.19	-3.33	-3.46	-3.59	-3.73

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N83/N127	Aço laminado	$N_{mín}$	-41.700	-41.700	-41.700	-41.700	-41.700
		$N_{máx}$	2.657	2.657	2.657	2.657	2.657
		$Vy_{mín}$	-1.511	-1.511	-1.511	-1.511	-1.511
		$Vy_{máx}$	-0.647	-0.647	-0.647	-0.647	-0.647
		$Vz_{mín}$	-26.607	-15.007	-3.524	7.958	19.440
		$Vz_{máx}$	25.661	39.425	53.306	67.187	81.068
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	644.57	643.93	641.64	637.70	632.11
		$My_{máx}$	1252.12	1255.95	1257.12	1255.41	1250.85
		$Mz_{mín}$	-8.65	-8.34	-8.03	-7.72	-7.41
		$Mz_{máx}$	-3.70	-3.57	-3.44	-3.30	-3.17

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N127/N126	Aço laminado	$N_{mín}$	-41.700	-41.700	-41.700	-41.700	-41.700	-41.700	-41.700	-41.700	-41.700
		$N_{máx}$	2.657	2.657	2.657	2.657	2.657	2.657	2.657	2.657	2.657
		$Vy_{mín}$	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511
		$Vy_{máx}$	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647
		$Vz_{mín}$	19.440	47.703	64.313	72.617	89.239	105.860	122.469	130.774	147.395
		$Vz_{máx}$	81.068	109.921	138.754	153.170	182.023	215.131	256.456	277.119	318.474

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	632.11	615.22	591.22	576.56	541.86	500.04	451.12	424.00	364.37
		$My_{máx}$	1250.85	1229.52	1190.50	1164.35	1098.72	1015.36	914.35	857.20	729.54
		$Mz_{mín}$	-7.41	-6.76	-6.11	-5.79	-5.14	-4.49	-3.84	-3.52	-2.87
		$Mz_{máx}$	-3.17	-2.89	-2.62	-2.48	-2.20	-1.92	-1.65	-1.51	-1.23

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N126/N125	Aço laminado	$N_{mín}$	-41.700	-41.700	-41.700
		$N_{máx}$	2.657	2.657	2.657
		$Vy_{mín}$	-1.511	-1.511	-1.511
		$Vy_{máx}$	-0.647	-0.647	-0.647
		$Vz_{mín}$	147.395	159.370	171.337
		$Vz_{máx}$	318.474	334.025	349.581
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	364.37	333.69	300.62
		$My_{máx}$	729.54	664.29	595.93
		$Mz_{mín}$	-2.87	-2.57	-2.27
		$Mz_{máx}$	-1.23	-1.10	-0.97

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N125/N11	Aço laminado	$N_{mín}$	-41.700	-41.700	-41.700	-41.700	-41.700	-41.700	-41.700	-41.700	-41.700
		$N_{máx}$	2.657	2.657	2.657	2.657	2.657	2.657	2.657	2.657	2.657
		$Vy_{mín}$	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511	-1.511
		$Vy_{máx}$	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647	-0.647
		$Vz_{mín}$	171.337	178.606	185.876	193.145	200.415	207.684	214.954	222.223	229.493
		$Vz_{máx}$	349.581	361.507	373.433	385.359	397.285	409.212	421.138	433.064	444.990
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	300.62	267.81	233.64	198.11	161.22	122.96	83.33	42.35	0.00
		$My_{máx}$	595.93	529.26	460.36	389.23	315.85	240.24	162.40	82.32	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		$Mz_{mín}$	-2.27	-1.98	-1.70	-1.42	-1.13	-0.85	-0.57	-0.28	0.00
		$Mz_{máx}$	-0.97	-0.85	-0.73	-0.61	-0.49	-0.36	-0.24	-0.12	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N28/N116	Aço laminado	$N_{mín}$	-19.821	-19.821	-19.821	-19.821	-19.821	-19.821	-19.821	-19.821	-19.821
		$N_{máx}$	53.572	53.572	53.572	53.572	53.572	53.572	53.572	53.572	53.572
		$Vy_{mín}$	-1.393	-1.393	-1.393	-1.393	-1.393	-1.393	-1.393	-1.393	-1.393
		$Vy_{máx}$	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		$Vz_{mín}$	-509.345	-497.374	-485.404	-473.433	-461.462	-449.491	-437.520	-425.549	-413.578
		$Vz_{máx}$	-230.994	-223.697	-216.401	-209.104	-201.808	-194.511	-187.215	-179.918	-172.622
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	42.63	83.89	123.78	162.30	199.46	235.24	269.66	302.71
		$My_{máx}$	0.00	94.38	186.52	276.41	364.05	449.45	532.61	613.52	692.19
		$Mz_{mín}$	0.00	-0.01	-0.02	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08
		$Mz_{máx}$	0.00	0.26	0.52	0.78	1.04	1.31	1.57	1.83	2.09

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N116/N117	Aço laminado	$N_{mín}$	-19.821	-19.821	-19.821
		$N_{máx}$	53.572	53.572	53.572
		$Vy_{mín}$	-1.393	-1.393	-1.393
		$Vy_{máx}$	0.053	0.053	0.053
		$Vz_{mín}$	-413.578	-397.912	-382.245
		$Vz_{máx}$	-172.622	-160.570	-148.519
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	302.71	336.03	366.94
		$My_{máx}$	692.19	773.34	851.36
		$Mz_{mín}$	-0.08	-0.09	-0.10
		$Mz_{máx}$	2.09	2.37	2.65

Envoltórias dos esforços em barras

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Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N117/N118	Aço laminado	$N_{mín}$	-19.821	-19.821	-19.821	-19.821	-19.821	-19.821	-19.821	-19.821	-19.821
		$N_{máx}$	53.572	53.572	53.572	53.572	53.572	53.572	53.572	53.572	53.572
		$Vy_{mín}$	-1.393	-1.393	-1.393	-1.393	-1.393	-1.393	-1.393	-1.393	-1.393
		$Vy_{máx}$	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
		$Vz_{mín}$	-382.245	-328.280	-274.352	-247.389	-209.903	-180.942	-152.001	-137.530	-108.569
		$Vz_{máx}$	-148.519	-131.836	-115.165	-106.830	-90.147	-73.464	-56.793	-43.739	5.222
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	366.94	427.03	479.94	503.72	545.94	581.01	608.91	620.18	637.38
		$My_{máx}$	851.36	1003.66	1132.74	1188.62	1283.11	1354.46	1402.65	1418.09	1431.63
		$Mz_{mín}$	-0.10	-0.12	-0.15	-0.16	-0.18	-0.20	-0.23	-0.24	-0.26
		$Mz_{máx}$	2.65	3.24	3.84	4.14	4.73	5.33	5.93	6.23	6.82

Envoltórias dos esforços em barras

Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N118/N84	Aço laminado	$N_{mín}$	-19.821	-19.821	-19.821	-19.821	-19.821
		$N_{máx}$	53.572	53.572	53.572	53.572	53.572
		$Vy_{mín}$	-1.393	-1.393	-1.393	-1.393	-1.393
		$Vy_{máx}$	0.053	0.053	0.053	0.053	0.053
		$Vz_{mín}$	-108.569	-94.635	-80.702	-66.768	-52.835
		$Vz_{máx}$	5.222	16.747	28.273	39.799	51.324
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	637.38	643.11	647.18	649.59	650.35
		$My_{máx}$	1431.63	1431.14	1427.78	1421.54	1412.73
		$Mz_{mín}$	-0.26	-0.27	-0.28	-0.29	-0.30
		$Mz_{máx}$	6.82	7.11	7.40	7.69	7.97

Envoltórias dos esforços em barras

Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N84/N121	Aço laminado	$N_{mín}$	-31.136	-31.136	-31.136	-31.136	-31.136
		$N_{máx}$	67.423	67.423	67.423	67.423	67.423
		$Vy_{mín}$	-0.068	-0.068	-0.068	-0.068	-0.068
		$Vy_{máx}$	1.352	1.352	1.352	1.352	1.352
		$Vz_{mín}$	-51.353	-39.827	-28.301	-16.776	-5.250

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Vz_{máx}$	52.798	66.731	80.665	94.598	108.532
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	651.03	650.25	647.81	643.72	637.97
		$My_{máx}$	1412.52	1421.36	1427.60	1430.97	1431.46
		$Mz_{mín}$	-0.39	-0.38	-0.36	-0.35	-0.33
		$Mz_{máx}$	7.74	7.46	7.18	6.91	6.63

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N121/N120	Aço laminado	$N_{mín}$	-31.136	-31.136	-31.136	-31.136	-31.136	-31.136	-31.136	-31.136	-31.136
		$N_{máx}$	67.423	67.423	67.423	67.423	67.423	67.423	67.423	67.423	67.423
		$Vy_{mín}$	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		$Vy_{máx}$	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352
		$Vz_{mín}$	-5.250	43.710	65.248	73.584	90.266	106.949	123.620	131.956	148.638
		$Vz_{máx}$	108.532	137.493	166.434	180.905	209.866	247.355	301.283	328.247	382.212
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	637.97	620.72	596.33	581.47	546.34	504.07	454.68	427.31	367.17
		$My_{máx}$	1431.46	1417.94	1381.31	1354.33	1283.00	1188.52	1071.00	1003.58	851.29
		$Mz_{mín}$	-0.33	-0.31	-0.28	-0.26	-0.23	-0.20	-0.17	-0.16	-0.13
		$Mz_{máx}$	6.63	6.05	5.47	5.18	4.60	4.02	3.44	3.15	2.57

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N120/N119	Aço laminado	$N_{mín}$	-31.136	-31.136	-31.136
		$N_{máx}$	67.423	67.423	67.423
		$Vy_{mín}$	-0.068	-0.068	-0.068
		$Vy_{máx}$	1.352	1.352	1.352
		$Vz_{mín}$	148.638	160.690	172.741
		$Vz_{máx}$	382.212	397.878	413.545
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		$My_{mín}$	367.17	336.23	302.89
		$My_{máx}$	851.29	773.29	692.14
		$Mz_{mín}$	-0.13	-0.12	-0.10
		$Mz_{máx}$	2.57	2.30	2.03

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N119/N38	Aço laminado	$N_{mín}$	-31.136	-31.136	-31.136	-31.136	-31.136	-31.136	-31.136	-31.136	-31.136
		$N_{máx}$	67.423	67.423	67.423	67.423	67.423	67.423	67.423	67.423	67.423
		$Vy_{mín}$	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068	-0.068
		$Vy_{máx}$	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352
		$Vz_{mín}$	172.741	180.037	187.334	194.630	201.927	209.223	216.520	223.816	231.113
		$Vz_{máx}$	413.545	425.516	437.487	449.458	461.428	473.399	485.370	497.341	509.312
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	302.89	269.82	235.38	199.57	162.39	123.84	83.93	42.65	0.00
		$My_{máx}$	692.14	613.48	532.57	449.42	364.03	276.39	186.50	94.37	0.00
		$Mz_{mín}$	-0.10	-0.09	-0.08	-0.06	-0.05	-0.04	-0.03	-0.01	0.00
		$Mz_{máx}$	2.03	1.78	1.52	1.27	1.01	0.76	0.51	0.25	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N5/N110	Aço laminado	$N_{mín}$	-54.222	-54.222	-54.222	-54.222	-54.222	-54.222	-54.222	-54.222	-54.222
		$N_{máx}$	54.881	54.881	54.881	54.881	54.881	54.881	54.881	54.881	54.881
		$Vy_{mín}$	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300
		$Vy_{máx}$	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541
		$Vz_{mín}$	-473.897	-461.926	-449.955	-437.984	-426.013	-414.042	-402.071	-390.101	-378.130
		$Vz_{máx}$	-231.043	-223.746	-216.450	-209.153	-201.857	-194.560	-187.264	-179.967	-172.671
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	42.64	83.90	123.81	162.34	199.50	235.30	269.73	302.79
		$My_{máx}$	0.00	87.73	173.22	256.47	337.47	416.22	492.73	567.00	639.02
		$Mz_{mín}$	0.00	0.10	0.20	0.30	0.41	0.51	0.61	0.71	0.81
		$Mz_{máx}$	0.00	0.43	0.86	1.29	1.72	2.16	2.59	3.02	3.45

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N110/N111	Aço laminado	$N_{mín}$	-54.222	-54.222	-54.222
		$N_{máx}$	54.881	54.881	54.881
		$Vy_{mín}$	-2.300	-2.300	-2.300
		$Vy_{máx}$	-0.541	-0.541	-0.541
		$Vz_{mín}$	-378.130	-362.463	-346.796
		$Vz_{máx}$	-172.671	-160.619	-148.568
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	302.79	336.11	367.03
		$My_{máx}$	639.02	713.08	784.01
		$Mz_{mín}$	0.81	0.92	1.03
		$Mz_{máx}$	3.45	3.91	4.37

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N111/N112	Aço laminado	$N_{mín}$	-54.222	-54.222	-54.222	-54.222	-54.222	-54.222	-54.222	-54.222	-54.222
		$N_{máx}$	54.881	54.881	54.881	54.881	54.881	54.881	54.881	54.881	54.881
		$Vy_{mín}$	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300	-2.300
		$Vy_{máx}$	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541	-0.541
		$Vz_{mín}$	-346.796	-305.333	-263.899	-243.182	-201.718	-160.255	-126.177	-111.707	-82.745
		$Vz_{máx}$	-148.568	-131.885	-115.214	-106.879	-90.196	-73.513	-56.842	-48.507	-20.853
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	367.03	427.15	480.08	503.86	546.11	581.20	609.12	620.40	637.62
		$My_{máx}$	784.01	923.79	1045.72	1100.03	1195.39	1272.98	1332.76	1355.99	1389.16
		$Mz_{mín}$	1.03	1.26	1.49	1.61	1.84	2.07	2.30	2.42	2.65
		$Mz_{máx}$	4.37	5.36	6.34	6.83	7.82	8.81	9.79	10.28	11.27

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N112/N85	Aço laminado	$N_{mín}$	-54.222	-54.222	-54.222	-54.222	-54.222
		$N_{máx}$	54.881	54.881	54.881	54.881	54.881
		$Vy_{mín}$	-2.300	-2.300	-2.300	-2.300	-2.300
		$Vy_{máx}$	-0.541	-0.541	-0.541	-0.541	-0.541

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Vz_{mín}$	-82.745	-68.812	-54.878	-40.945	-27.012
		$Vz_{máx}$	-20.853	-9.327	2.198	13.724	25.250
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	637.62	643.36	647.44	649.86	650.63
		$My_{máx}$	1389.16	1399.41	1406.78	1411.27	1412.90
		$Mz_{mín}$	2.65	2.76	2.87	2.99	3.10
		$Mz_{máx}$	11.27	11.74	12.22	12.69	13.17

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N85/N115	Aço laminado	$N_{mín}$	-32.672	-32.672	-32.672	-32.672	-32.672
		$N_{máx}$	40.383	40.383	40.383	40.383	40.383
		$Vy_{mín}$	0.529	0.529	0.529	0.529	0.529
		$Vy_{máx}$	2.231	2.231	2.231	2.231	2.231
		$Vz_{mín}$	-25.341	-13.816	-2.290	9.236	20.761
		$Vz_{máx}$	26.929	40.863	54.796	68.729	82.663
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	650.40	649.64	647.22	643.15	637.42
		$My_{máx}$	1412.20	1410.60	1406.13	1398.79	1388.57
		$Mz_{mín}$	3.03	2.92	2.81	2.70	2.59
		$Mz_{máx}$	12.77	12.31	11.85	11.39	10.93

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N115/N114	Aço laminado	$N_{mín}$	-32.672	-32.672	-32.672	-32.672	-32.672	-32.672	-32.672	-32.672	-32.672
		$N_{máx}$	40.383	40.383	40.383	40.383	40.383	40.383	40.383	40.383	40.383
		$Vy_{mín}$	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529
		$Vy_{máx}$	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231
		$Vz_{mín}$	20.761	48.466	65.137	73.473	90.156	106.838	123.510	131.845	148.528
		$Vz_{máx}$	82.663	111.624	140.565	160.134	201.597	243.060	284.495	305.212	346.675

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	637.42	620.22	595.89	581.04	545.97	503.74	454.40	427.05	366.96
		$My_{máx}$	1388.57	1355.45	1304.60	1272.52	1194.98	1099.67	986.66	923.51	783.77
		$Mz_{mín}$	2.59	2.37	2.14	2.03	1.80	1.57	1.35	1.23	1.01
		$Mz_{máx}$	10.93	9.97	9.02	8.54	7.58	6.63	5.67	5.19	4.24

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N114/N113	Aço laminado	$N_{mín}$	-32.672	-32.672	-32.672
		$N_{máx}$	40.383	40.383	40.383
		$Vy_{mín}$	0.529	0.529	0.529
		$Vy_{máx}$	2.231	2.231	2.231
		$Vz_{mín}$	148.528	160.579	172.630
		$Vz_{máx}$	346.675	362.342	378.008
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	366.96	336.05	302.72
		$My_{máx}$	783.77	712.87	638.84
		$Mz_{mín}$	1.01	0.90	0.79
		$Mz_{máx}$	4.24	3.79	3.35

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N113/N12	Aço laminado	$N_{mín}$	-32.672	-32.672	-32.672	-32.672	-32.672	-32.672	-32.672	-32.672	-32.672
		$N_{máx}$	40.383	40.383	40.383	40.383	40.383	40.383	40.383	40.383	40.383
		$Vy_{mín}$	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529
		$Vy_{máx}$	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231
		$Vz_{mín}$	172.630	179.927	187.223	194.520	201.816	209.113	216.409	223.706	231.002
		$Vz_{máx}$	378.008	389.979	401.950	413.921	425.892	437.863	449.834	461.804	473.775
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	302.72	269.67	235.25	199.46	162.31	123.78	83.89	42.63	0.00
		$My_{máx}$	638.84	566.84	492.60	416.11	337.38	256.40	173.18	87.71	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		$Mz_{mín}$	0.79	0.69	0.60	0.50	0.40	0.30	0.20	0.10	0.00
		$Mz_{máx}$	3.35	2.93	2.51	2.09	1.67	1.25	0.84	0.42	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N29/N104	Aço laminado	$N_{mín}$	-92.971	-92.971	-92.971	-92.971	-92.971	-92.971	-92.971	-92.971	-92.971
		$N_{máx}$	99.114	99.114	99.114	99.114	99.114	99.114	99.114	99.114	99.114
		$Vy_{mín}$	-1.810	-1.810	-1.810	-1.810	-1.810	-1.810	-1.810	-1.810	-1.810
		$Vy_{máx}$	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
		$Vz_{mín}$	-547.124	-535.153	-523.182	-511.211	-499.240	-487.269	-475.298	-463.328	-451.357
		$Vz_{máx}$	-229.811	-222.514	-215.218	-207.921	-200.625	-193.328	-186.032	-178.735	-171.439
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	42.41	83.44	123.11	161.41	198.35	233.91	268.11	300.94
		$My_{máx}$	0.00	101.46	200.68	297.66	392.39	484.87	575.11	663.11	748.86
		$Mz_{mín}$	0.00	-0.12	-0.24	-0.35	-0.47	-0.59	-0.71	-0.83	-0.94
		$Mz_{máx}$	0.00	0.34	0.68	1.02	1.36	1.70	2.04	2.38	2.72

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N104/N105	Aço laminado	$N_{mín}$	-92.971	-92.971	-92.971
		$N_{máx}$	99.114	99.114	99.114
		$Vy_{mín}$	-1.810	-1.810	-1.810
		$Vy_{máx}$	0.630	0.630	0.630
		$Vz_{mín}$	-451.357	-435.690	-420.023
		$Vz_{máx}$	-171.439	-159.388	-147.336
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	300.94	334.02	364.69
		$My_{máx}$	748.86	837.57	923.14
		$Mz_{mín}$	-0.94	-1.07	-1.20
		$Mz_{máx}$	2.72	3.08	3.44

Envoltórias dos esforços em barras

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Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N105/N106	Aço laminado	$N_{mín}$	-92.971	-92.971	-92.971	-92.971	-92.971	-92.971	-92.971	-92.971	-92.971
		$N_{máx}$	99.114	99.114	99.114	99.114	99.114	99.114	99.114	99.114	99.114
		$Vy_{mín}$	-1.810	-1.810	-1.810	-1.810	-1.810	-1.810	-1.810	-1.810	-1.810
		$Vy_{máx}$	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630
		$Vz_{mín}$	-420.023	-366.058	-312.131	-285.167	-231.202	-177.237	-137.879	-123.409	-94.447
		$Vz_{máx}$	-147.336	-130.654	-113.983	-105.647	-88.964	-72.282	-55.611	-43.764	5.196
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	364.69	424.28	476.68	500.20	541.92	576.48	603.88	614.89	631.59
		$My_{máx}$	923.14	1091.63	1236.90	1300.87	1411.56	1499.10	1563.48	1587.01	1616.74
		$Mz_{mín}$	-1.20	-1.47	-1.74	-1.87	-2.14	-2.41	-2.68	-2.82	-3.09
		$Mz_{máx}$	3.44	4.22	4.99	5.38	6.15	6.93	7.71	8.09	8.87

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N106/N86	Aço laminado	$N_{mín}$	-92.971	-92.971	-92.971	-92.971	-92.971
		$N_{máx}$	99.114	99.114	99.114	99.114	99.114
		$Vy_{mín}$	-1.810	-1.810	-1.810	-1.810	-1.810
		$Vy_{máx}$	0.630	0.630	0.630	0.630	0.630
		$Vz_{mín}$	-94.447	-80.514	-66.580	-52.647	-38.713
		$Vz_{máx}$	5.196	16.722	28.247	39.773	51.299
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	631.59	637.07	640.89	643.06	643.58
		$My_{máx}$	1616.74	1624.05	1628.48	1630.03	1628.72
		$Mz_{mín}$	-3.09	-3.22	-3.35	-3.48	-3.61
		$Mz_{máx}$	8.87	9.24	9.62	9.99	10.36

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N86/N109	Aço laminado	$N_{mín}$	-87.117	-87.117	-87.117	-87.117	-87.117
		$N_{máx}$	108.419	108.419	108.419	108.419	108.419
		$Vy_{mín}$	-0.603	-0.603	-0.603	-0.603	-0.603
		$Vy_{máx}$	1.759	1.759	1.759	1.759	1.759
		$Vz_{mín}$	-37.294	-25.768	-14.242	-2.717	8.809

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Vz_{máx}$	52.619	66.552	80.486	94.419	108.353
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	643.76	643.24	641.06	637.23	631.74
		$My_{máx}$	1627.26	1622.78	1615.43	1605.21	1592.11
		$Mz_{mín}$	-3.46	-3.33	-3.21	-3.08	-2.96
		$Mz_{máx}$	10.07	9.71	9.35	8.98	8.62

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N109/N108	Aço laminado	$N_{mín}$	-87.117	-87.117	-87.117	-87.117	-87.117	-87.117	-87.117	-87.117	-87.117
		$N_{máx}$	108.419	108.419	108.419	108.419	108.419	108.419	108.419	108.419	108.419
		$Vy_{mín}$	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603
		$Vy_{máx}$	1.759	1.759	1.759	1.759	1.759	1.759	1.759	1.759	1.759
		$Vz_{mín}$	8.809	47.306	63.977	72.312	88.995	105.678	122.349	130.684	147.367
		$Vz_{máx}$	108.353	137.314	166.255	188.282	235.428	282.574	329.687	353.243	400.389
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	631.74	615.04	591.20	576.60	542.03	500.30	451.45	424.35	364.75
		$My_{máx}$	1592.11	1551.80	1491.32	1453.51	1362.69	1251.66	1120.51	1047.37	885.83
		$Mz_{mín}$	-2.96	-2.70	-2.44	-2.31	-2.05	-1.79	-1.53	-1.41	-1.15
		$Mz_{máx}$	8.62	7.87	7.11	6.74	5.98	5.23	4.47	4.10	3.34

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N108/N107	Aço laminado	$N_{mín}$	-87.117	-87.117	-87.117
		$N_{máx}$	108.419	108.419	108.419
		$Vy_{mín}$	-0.603	-0.603	-0.603
		$Vy_{máx}$	1.759	1.759	1.759
		$Vz_{mín}$	147.367	159.420	171.471
		$Vz_{máx}$	400.389	416.055	431.722
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
		$My_{mín}$	364.75	334.07	300.99
		$My_{máx}$	885.83	804.19	719.41
		$Mz_{mín}$	-1.15	-1.03	-0.91
		$Mz_{máx}$	3.34	2.99	2.64

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N107/N39	Aço laminado	$N_{mín}$	-87.117	-87.117	-87.117	-87.117	-87.117	-87.117	-87.117	-87.117	-87.117
		$N_{máx}$	108.419	108.419	108.419	108.419	108.419	108.419	108.419	108.419	108.419
		$Vy_{mín}$	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603	-0.603
		$Vy_{máx}$	1.759	1.759	1.759	1.759	1.759	1.759	1.759	1.759	1.759
		$Vz_{mín}$	171.471	178.767	186.064	193.360	200.657	207.953	215.250	222.546	229.843
		$Vz_{máx}$	431.722	443.693	455.664	467.635	479.605	491.576	503.547	515.518	527.489
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	300.99	268.15	233.95	198.38	161.44	123.13	83.45	42.41	0.00
		$My_{máx}$	719.41	637.34	553.02	466.46	377.66	286.61	193.32	97.78	0.00
		$Mz_{mín}$	-0.91	-0.79	-0.68	-0.57	-0.45	-0.34	-0.23	-0.11	0.00
		$Mz_{máx}$	2.64	2.31	1.98	1.65	1.32	0.99	0.66	0.33	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N6/N98	Aço laminado	$N_{mín}$	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964
		$N_{máx}$	2.377	2.377	2.377	2.377	2.377	2.377	2.377	2.377	2.377
		$Vy_{mín}$	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
		$Vy_{máx}$	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
		$Vz_{mín}$	-273.877	-267.640	-261.403	-255.166	-248.929	-242.692	-236.455	-230.218	-223.981
		$Vz_{máx}$	-121.668	-117.826	-113.985	-110.143	-106.301	-102.459	-98.617	-94.776	-90.934
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	22.45	44.18	65.20	85.49	105.06	123.91	142.04	159.45
		$My_{máx}$	0.00	50.77	100.36	148.79	196.05	242.14	287.06	330.81	373.39
		$Mz_{mín}$	0.00	-0.06	-0.13	-0.19	-0.25	-0.31	-0.38	-0.44	-0.50
		$Mz_{máx}$	0.00	-0.04	-0.08	-0.13	-0.17	-0.21	-0.25	-0.29	-0.33

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N98/N99	Aço laminado	$N_{mín}$	-0.964	-0.964	-0.964
		$N_{máx}$	2.377	2.377	2.377
		$Vy_{mín}$	0.222	0.222	0.222
		$Vy_{máx}$	0.333	0.333	0.333
		$Vz_{mín}$	-223.981	-215.879	-207.778
		$Vz_{máx}$	-90.934	-84.702	-78.470
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	159.45	177.02	193.33
		$My_{máx}$	373.39	417.38	459.74
		$Mz_{mín}$	-0.50	-0.57	-0.63
		$Mz_{máx}$	-0.33	-0.38	-0.42

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N99/N100	Aço laminado	$N_{mín}$	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964	-0.964
		$N_{máx}$	2.377	2.377	2.377	2.377	2.377	2.377	2.377	2.377	2.377
		$Vy_{mín}$	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
		$Vy_{máx}$	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
		$Vz_{mín}$	-207.778	-180.220	-152.681	-138.912	-111.354	-83.797	-63.488	-55.966	-40.910
		$Vz_{máx}$	-78.470	-69.686	-60.908	-56.520	-47.736	-38.952	-30.174	-22.945	1.978
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	193.33	225.09	253.06	265.64	287.99	306.57	321.37	327.37	336.54
		$My_{máx}$	459.74	542.91	614.22	645.45	699.09	740.92	770.92	781.50	793.81
		$Mz_{mín}$	-0.63	-0.78	-0.92	-0.99	-1.13	-1.28	-1.42	-1.49	-1.63
		$Mz_{máx}$	-0.42	-0.52	-0.61	-0.66	-0.76	-0.85	-0.95	-0.99	-1.09

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N100/N87	Aço laminado	$N_{mín}$	-0.964	-0.964	-0.964	-0.964	-0.964
		$N_{máx}$	2.377	2.377	2.377	2.377	2.377
		$Vy_{mín}$	0.222	0.222	0.222	0.222	0.222

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Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
		$Vy_{máx}$	0.333	0.333	0.333	0.333	0.333
		$Vz_{mín}$	-40.910	-33.666	-26.423	-19.179	-11.936
		$Vz_{máx}$	1.978	7.954	13.929	19.905	25.881
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	336.54	339.61	341.81	343.14	343.59
		$My_{máx}$	793.81	796.14	796.98	796.32	794.17
		$Mz_{mín}$	-1.63	-1.70	-1.77	-1.84	-1.91
		$Mz_{máx}$	-1.09	-1.13	-1.18	-1.23	-1.27

Envoltórias dos esforços em barras							
Barra	Tipo de combinação	Esforço	Posições na barra				
			0.000 m	0.206 m	0.413 m	0.619 m	0.825 m
N87/N103	Aço laminado	$N_{mín}$	-1.114	-1.114	-1.114	-1.114	-1.114
		$N_{máx}$	2.218	2.218	2.218	2.218	2.218
		$Vy_{mín}$	-0.340	-0.340	-0.340	-0.340	-0.340
		$Vy_{máx}$	-0.227	-0.227	-0.227	-0.227	-0.227
		$Vz_{mín}$	-11.708	-5.733	0.243	6.219	12.194
		$Vz_{máx}$	26.109	33.352	40.596	47.839	55.083
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	343.60	343.15	341.82	339.62	336.55
		$My_{máx}$	794.19	790.49	785.30	778.62	770.44
		$Mz_{mín}$	-1.95	-1.88	-1.81	-1.74	-1.67
		$Mz_{máx}$	-1.30	-1.25	-1.20	-1.16	-1.11

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
N103/N102	Aço laminado	$N_{mín}$	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114
		$N_{máx}$	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.218
		$Vy_{mín}$	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340
		$Vy_{máx}$	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227
		$Vz_{mín}$	12.194	25.788	34.565	38.954	47.738	56.522	65.299	69.688	78.472

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.429 m	0.857 m	1.071 m	1.500 m	1.929 m	2.357 m	2.571 m	3.000 m
		$Vz_{máx}$	55.083	70.138	85.184	95.099	115.837	136.576	157.300	167.662	188.400
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	336.55	327.38	314.45	306.58	287.99	265.65	239.55	225.09	193.34
		$My_{máx}$	770.44	747.44	715.58	696.32	651.11	597.00	534.05	499.25	422.93
		$Mz_{mín}$	-1.67	-1.52	-1.38	-1.30	-1.16	-1.01	-0.86	-0.79	-0.65
		$Mz_{máx}$	-1.11	-1.01	-0.92	-0.87	-0.77	-0.67	-0.58	-0.53	-0.43

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.200 m	0.400 m
N102/N101	Aço laminado	$N_{mín}$	-1.114	-1.114	-1.114
		$N_{máx}$	2.218	2.218	2.218
		$Vy_{mín}$	-0.340	-0.340	-0.340
		$Vy_{máx}$	-0.227	-0.227	-0.227
		$Vz_{mín}$	78.472	84.704	90.936
		$Vz_{máx}$	188.400	196.502	204.604
		$Mt_{mín}$	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00
		$My_{mín}$	193.34	177.02	159.45
		$My_{máx}$	422.93	384.44	344.33
		$Mz_{mín}$	-0.65	-0.58	-0.51
		$Mz_{máx}$	-0.43	-0.39	-0.34

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
N101/N13	Aço laminado	$N_{mín}$	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114	-1.114
		$N_{máx}$	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.218	2.218
		$Vy_{mín}$	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340	-0.340
		$Vy_{máx}$	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227	-0.227
		$Vz_{mín}$	90.936	94.778	98.619	102.461	106.303	110.145	113.987	117.828	121.670
		$Vz_{máx}$	204.604	210.841	217.078	223.315	229.552	235.789	242.026	248.263	254.500
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	159.45	142.04	123.91	105.06	85.49	65.20	44.19	22.45	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.188 m	0.375 m	0.563 m	0.750 m	0.938 m	1.125 m	1.313 m	1.500 m
		$My_{máx}$	344.33	305.38	265.26	223.98	181.52	137.89	93.10	47.13	0.00
		$Mz_{mín}$	-0.51	-0.45	-0.38	-0.32	-0.26	-0.19	-0.13	-0.06	0.00
		$Mz_{máx}$	-0.34	-0.30	-0.26	-0.21	-0.17	-0.13	-0.09	-0.04	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N77/N78	Aço laminado	$N_{mín}$	0.498	0.505	0.511	0.514	0.520	0.527	0.533	0.536	0.543
		$N_{máx}$	0.747	0.757	0.766	0.771	0.781	0.790	0.800	0.804	0.814
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N78/N79	Aço laminado	$N_{mín}$	-15.556	-15.550	-15.544	-15.540	-15.534	-15.528	-15.521	-15.518	-15.512
		$N_{máx}$	5.212	5.222	5.231	5.236	5.245	5.255	5.264	5.269	5.279
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras			
Barra	Tipo de combinação	Esforço	Posições na barra

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			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N79/N80	Aço laminado	$N_{mín}$	-27.702	-27.695	-27.689	-27.686	-27.680	-27.673	-27.667	-27.664	-27.657
		$N_{máx}$	1.817	1.827	1.836	1.841	1.850	1.860	1.869	1.874	1.884
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N80/N81	Aço laminado	$N_{mín}$	-39.005	-38.999	-38.993	-38.990	-38.983	-38.977	-38.971	-38.967	-38.961
		$N_{máx}$	1.933	1.943	1.952	1.957	1.967	1.976	1.986	1.990	2.000
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N84/N83	Aço laminado	$N_{mín}$	-31.384	-31.375	-31.366	-31.362	-31.353	-31.344	-31.336	-31.331	-31.322
		$N_{máx}$	8.060	8.073	8.087	8.093	8.106	8.120	8.133	8.139	8.153
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N85/N84	Aço laminado	$N_{mín}$	-22.708	-22.700	-22.691	-22.686	-22.678	-22.669	-22.660	-22.656	-22.647
		$N_{máx}$	5.020	5.033	5.046	5.053	5.066	5.080	5.093	5.099	5.113
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N86/N85	Aço laminado	$N_{mín}$	-13.024	-13.015	-13.011	-13.002	-12.993	-12.984	-12.975	-12.971	-12.962
		$N_{máx}$	6.606	6.619	6.625	6.639	6.652	6.665	6.678	6.685	6.698
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.217	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.145	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.18	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras

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Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N87/N86	Aço laminado	$N_{mín}$	0.440	0.449	0.453	0.462	0.471	0.480	0.488	0.493	0.502
		$N_{máx}$	0.660	0.673	0.680	0.693	0.706	0.719	0.733	0.739	0.752
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.217	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.145	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.18	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N40/N88	Aço laminado	$N_{mín}$	12.628	12.628	12.628	12.628	12.628	12.628	12.628	12.628	12.628
		$N_{máx}$	45.511	45.511	45.511	45.511	45.511	45.511	45.511	45.511	45.511
		$Vy_{mín}$	-1.006	-1.006	-1.006	-1.006	-1.006	-1.006	-1.006	-1.006	-1.006
		$Vy_{máx}$	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200	-0.200
		$Vz_{mín}$	-10.729	-9.502	-8.275	-7.049	-5.822	-4.595	-3.369	-2.142	-0.915
		$Vz_{máx}$	-7.137	-6.319	-5.501	-4.683	-3.865	-3.048	-2.230	-1.412	-0.594
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	4.81	9.04	12.69	15.75	18.22	20.11	21.41	22.13
		$My_{máx}$	0.00	7.24	13.60	19.08	23.69	27.42	30.27	32.24	33.33
		$Mz_{mín}$	0.00	0.14	0.29	0.43	0.57	0.72	0.86	1.00	1.14
		$Mz_{máx}$	0.00	0.72	1.44	2.16	2.88	3.60	4.32	5.04	5.76

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N88/N41	Aço laminado	$N_{mín}$	15.327	15.327	15.327	15.327	15.327	15.327	15.327	15.327	15.327
		$N_{máx}$	41.990	41.990	41.990	41.990	41.990	41.990	41.990	41.990	41.990
		$Vy_{mín}$	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
		$Vy_{máx}$	1.150	1.150	1.150	1.150	1.150	1.150	1.150	1.150	1.150
		$Vz_{mín}$	0.583	1.401	2.218	3.036	3.854	4.672	5.489	6.307	7.125
		$Vz_{máx}$	0.896	2.123	3.350	4.576	5.803	7.030	8.256	9.483	10.710
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	22.06	21.35	20.06	18.18	15.71	12.66	9.03	4.81	0.00
		$My_{máx}$	33.22	32.14	30.18	27.35	23.63	19.04	13.57	7.23	0.00
		$Mz_{mín}$	0.48	0.42	0.36	0.30	0.24	0.18	0.12	0.06	0.00
		$Mz_{máx}$	6.58	5.76	4.94	4.11	3.29	2.47	1.65	0.82	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
N43/N89	Aço laminado	$N_{mín}$	26.670	26.670	26.670	26.670	26.670	26.670	26.670	26.670	26.670
		$N_{máx}$	49.265	49.265	49.265	49.265	49.265	49.265	49.265	49.265	49.265
		$Vy_{mín}$	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
		$Vy_{máx}$	0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.260
		$Vz_{mín}$	-11.761	-10.534	-9.308	-8.081	-6.854	-5.628	-4.401	-3.175	-1.948
		$Vz_{máx}$	-7.840	-7.022	-6.205	-5.387	-4.569	-3.751	-2.934	-2.116	-1.298
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	5.32	10.05	14.20	17.76	20.74	23.13	24.94	26.16
		$My_{máx}$	0.00	7.98	15.08	21.30	26.64	31.11	34.70	37.41	39.24
		$Mz_{mín}$	0.00	-0.19	-0.37	-0.56	-0.75	-0.93	-1.12	-1.30	-1.49
		$Mz_{máx}$	0.00	-0.10	-0.21	-0.31	-0.42	-0.52	-0.63	-0.73	-0.84

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N89/N42	Aço laminado	$N_{mín}$	18.411	18.411	18.411	18.411	18.411	18.411	18.411	18.411	18.411
		$N_{máx}$	34.114	34.114	34.114	34.114	34.114	34.114	34.114	34.114	34.114
		$Vy_{mín}$	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
		$Vy_{máx}$	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
		$Vz_{mín}$	0.970	1.788	2.605	3.423	4.241	5.059	5.876	6.694	7.512
		$Vz_{máx}$	1.677	2.903	4.130	5.356	6.583	7.810	9.036	10.263	11.490
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	24.28	23.29	21.72	19.56	16.82	13.49	9.58	5.08	0.00
		$My_{máx}$	37.69	36.05	33.53	30.14	25.87	20.72	14.69	7.78	0.00
		$Mz_{mín}$	0.31	0.27	0.23	0.19	0.15	0.12	0.08	0.04	0.00
		$Mz_{máx}$	0.88	0.77	0.66	0.55	0.44	0.33	0.22	0.11	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N44/N90	Aço laminado	$N_{mín}$	16.912	16.912	16.912	16.912	16.912	16.912	16.912	16.912	16.912
		$N_{máx}$	32.559	32.559	32.559	32.559	32.559	32.559	32.559	32.559	32.559
		$Vy_{mín}$	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
		$Vy_{máx}$	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
		$Vz_{mín}$	-11.753	-10.526	-9.299	-8.073	-6.846	-5.619	-4.393	-3.166	-1.939
		$Vz_{máx}$	-7.835	-7.017	-6.199	-5.381	-4.564	-3.746	-2.928	-2.110	-1.293
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	5.31	10.04	14.19	17.74	20.72	23.11	24.91	26.13
		$My_{máx}$	0.00	7.97	15.07	21.28	26.62	31.08	34.66	37.37	39.19
		$Mz_{mín}$	0.00	-0.11	-0.23	-0.34	-0.46	-0.57	-0.69	-0.80	-0.92
		$Mz_{máx}$	0.00	-0.06	-0.12	-0.18	-0.25	-0.31	-0.37	-0.43	-0.49

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N90/N45	Aço laminado	$N_{mín}$	6.997	6.997	6.997	6.997	6.997	6.997	6.997	6.997	6.997
		$N_{máx}$	22.135	22.135	22.135	22.135	22.135	22.135	22.135	22.135	22.135
		$Vy_{mín}$	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
		$Vy_{máx}$	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176
		$Vz_{mín}$	1.067	1.885	2.703	3.521	4.338	5.156	5.974	6.792	7.609
		$Vz_{máx}$	1.753	2.979	4.206	5.432	6.659	7.886	9.112	10.339	11.566
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	24.84	23.78	22.14	19.91	17.10	13.70	9.72	5.15	0.00
		$My_{máx}$	38.12	36.43	33.86	30.41	26.08	20.88	14.80	7.84	0.00
		$Mz_{mín}$	0.46	0.41	0.35	0.29	0.23	0.17	0.12	0.06	0.00
		$Mz_{máx}$	1.01	0.88	0.76	0.63	0.50	0.38	0.25	0.13	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
N46/N91	Aço laminado	$N_{mín}$	11.721	11.721	11.721	11.721	11.721	11.721	11.721	11.721	11.721
		$N_{máx}$	47.454	47.454	47.454	47.454	47.454	47.454	47.454	47.454	47.454
		$Vy_{mín}$	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
		$Vy_{máx}$	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
		$Vz_{mín}$	-11.745	-10.518	-9.291	-8.065	-6.838	-5.611	-4.385	-3.158	-1.932
		$Vz_{máx}$	-7.828	-7.010	-6.192	-5.375	-4.557	-3.739	-2.921	-2.104	-1.286

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.862 m	3.578 m	4.294 m	5.009 m	5.725 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	5.31	10.03	14.17	17.73	20.69	23.08	24.88	26.09
		$My_{máx}$	0.00	7.97	15.05	21.26	26.60	31.05	34.63	37.33	39.15
		$Mz_{mín}$	0.00	-0.04	-0.08	-0.13	-0.17	-0.21	-0.25	-0.29	-0.34
		$Mz_{máx}$	0.00	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N91/N47	Aço laminado	$N_{mín}$	8.008	8.008	8.008	8.008	8.008	8.008	8.008	8.008	8.008
		$N_{máx}$	35.788	35.788	35.788	35.788	35.788	35.788	35.788	35.788	35.788
		$Vy_{mín}$	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
		$Vy_{máx}$	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
		$Vz_{mín}$	1.166	1.984	2.802	3.619	4.437	5.255	6.073	6.891	7.708
		$Vz_{máx}$	1.834	3.060	4.287	5.514	6.740	7.967	9.193	10.420	11.647
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	25.40	24.28	22.56	20.27	17.38	13.92	9.86	5.22	0.00
		$My_{máx}$	38.59	36.84	34.21	30.70	26.32	21.05	14.91	7.90	0.00
		$Mz_{mín}$	0.56	0.49	0.42	0.35	0.28	0.21	0.14	0.07	0.00
		$Mz_{máx}$	1.21	1.06	0.91	0.76	0.61	0.46	0.30	0.15	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N49/N92	Aço laminado	$N_{mín}$	8.132	8.132	8.132	8.132	8.132	8.132	8.132	8.132	8.132
		$N_{máx}$	32.650	32.650	32.650	32.650	32.650	32.650	32.650	32.650	32.650
		$Vy_{mín}$	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
		$Vy_{máx}$	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
		$Vz_{mín}$	-8.835	-7.608	-6.382	-5.155	-3.928	-2.702	-1.475	-0.248	0.978
		$Vz_{máx}$	-3.770	-2.952	-2.134	-1.316	-0.499	0.319	1.137	1.955	2.772
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	2.41	4.23	5.46	6.11	6.17	5.65	4.55	2.86
		$My_{máx}$	0.00	5.88	10.89	15.02	18.27	20.64	22.13	22.75	22.49
		$Mz_{mín}$	0.00	-0.05	-0.09	-0.14	-0.18	-0.23	-0.27	-0.32	-0.36
		$Mz_{máx}$	0.00	-0.03	-0.06	-0.08	-0.11	-0.14	-0.17	-0.20	-0.22

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N92/N48	Aço laminado	$N_{mín}$	3.554	3.554	3.554	3.554	3.554	3.554	3.554	3.554	3.554
		$N_{máx}$	30.408	30.408	30.408	30.408	30.408	30.408	30.408	30.408	30.408
		$Vy_{mín}$	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037	-0.037
		$Vy_{máx}$	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023	-0.023
		$Vz_{mín}$	-2.654	-1.836	-1.019	-0.201	0.617	1.435	2.252	3.070	3.888
		$Vz_{máx}$	-0.795	0.431	1.658	2.885	4.111	5.338	6.565	7.791	9.018
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	3.53	5.14	6.16	6.60	6.45	5.71	4.39	2.49	0.00
		$My_{máx}$	23.54	23.67	22.92	21.29	18.79	15.41	11.15	6.01	0.00
		$Mz_{mín}$	-0.21	-0.18	-0.16	-0.13	-0.11	-0.08	-0.05	-0.03	0.00
		$Mz_{máx}$	-0.13	-0.12	-0.10	-0.08	-0.07	-0.05	-0.03	-0.02	0.00

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N51/N93	Aço laminado	$N_{mín}$	-6.200	-6.200	-6.200	-6.200	-6.200	-6.200	-6.200	-6.200	-6.200
		$N_{máx}$	5.041	5.041	5.041	5.041	5.041	5.041	5.041	5.041	5.041
		$Vy_{mín}$	-0.778	-0.778	-0.778	-0.778	-0.778	-0.778	-0.778	-0.778	-0.778
		$Vy_{máx}$	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
		$Vz_{mín}$	-19.006	-17.780	-16.553	-15.326	-14.100	-12.873	-11.646	-10.420	-9.193
		$Vz_{máx}$	5.718	6.536	7.354	8.172	8.989	9.807	10.625	11.443	12.261
		$Mt_{mín}$	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	-61.33	-49.79	-40.13	-31.05	-22.56	-14.65	-7.33	-0.60	1.06
		$My_{máx}$	56.51	53.75	51.40	48.18	44.08	39.09	33.24	26.50	19.46
		$Mz_{mín}$	-3.31	-2.76	-2.24	-1.71	-1.19	-0.68	-0.20	0.28	0.76
		$Mz_{máx}$	1.99	1.84	1.72	1.61	1.49	1.38	1.31	1.23	1.24

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N93/N50	Aço laminado	$N_{mín}$	5.841	5.841	5.841	5.841	5.841	5.841	5.841	5.841	5.841
		$N_{máx}$	19.355	19.355	19.355	19.355	19.355	19.355	19.355	19.355	19.355
		$Vy_{mín}$	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095	-0.095
		$Vy_{máx}$	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943
		$Vz_{mín}$	-12.088	-11.270	-10.453	-9.635	-8.817	-7.999	-7.182	-6.364	-5.546

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		$Vz_{máx}$	9.611	10.838	12.065	13.291	14.518	15.745	16.971	18.198	19.425
		$Mt_{mín}$	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	1.89	-0.58	-7.60	-15.22	-23.41	-32.19	-41.56	-51.51	-63.39
		$My_{máx}$	20.44	27.93	34.53	40.26	45.11	49.08	52.17	54.38	57.06
		$Mz_{mín}$	0.70	0.14	-0.42	-1.02	-1.64	-2.32	-2.99	-3.67	-4.34
		$Mz_{máx}$	1.23	1.08	1.03	1.02	1.04	1.10	1.17	1.24	1.31

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N53/N94	Aço laminado	$N_{mín}$	10.958	10.958	10.958	10.958	10.958	10.958	10.958	10.958	10.958
		$N_{máx}$	47.656	47.656	47.656	47.656	47.656	47.656	47.656	47.656	47.656
		$Vy_{mín}$	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194	-0.194
		$Vy_{máx}$	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069	-0.069
		$Vz_{mín}$	-11.552	-10.325	-9.098	-7.872	-6.645	-5.418	-4.192	-2.965	-1.738
		$Vz_{máx}$	-7.607	-6.789	-5.972	-5.154	-4.336	-3.518	-2.701	-1.883	-1.065
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	5.15	9.72	13.70	17.09	19.90	22.13	23.77	24.82
		$My_{máx}$	0.00	7.83	14.78	20.85	26.04	30.36	33.80	36.36	38.04
		$Mz_{mín}$	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40
		$Mz_{máx}$	0.00	0.14	0.28	0.42	0.56	0.70	0.83	0.97	1.11

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N94/N52	Aço laminado	$N_{mín}$	22.766	22.766	22.766	22.766	22.766	22.766	22.766	22.766	22.766
		$N_{máx}$	72.231	72.231	72.231	72.231	72.231	72.231	72.231	72.231	72.231
		$Vy_{mín}$	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
		$Vy_{máx}$	0.189	0.189	0.189	0.189	0.189	0.189	0.189	0.189	0.189
		$Vz_{mín}$	1.063	1.880	2.698	3.516	4.334	5.151	5.969	6.787	7.605
		$Vz_{máx}$	1.738	2.964	4.191	5.418	6.644	7.871	9.097	10.324	11.551
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	24.81	23.76	22.12	19.90	17.09	13.69	9.71	5.15	0.00
		$My_{máx}$	38.04	36.36	33.80	30.36	26.04	20.85	14.78	7.83	0.00
		$Mz_{mín}$	0.39	0.34	0.29	0.24	0.20	0.15	0.10	0.05	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		$Mz_{máx}$	1.08	0.95	0.81	0.68	0.54	0.41	0.27	0.14	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N55/N95	Aço laminado	$N_{mín}$	29.238	29.238	29.238	29.238	29.238	29.238	29.238	29.238	29.238
		$N_{máx}$	65.532	65.532	65.532	65.532	65.532	65.532	65.532	65.532	65.532
		$Vy_{mín}$	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
		$Vy_{máx}$	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235
		$Vz_{mín}$	-11.990	-10.764	-9.537	-8.311	-7.084	-5.857	-4.631	-3.404	-2.177
		$Vz_{máx}$	-7.970	-7.153	-6.335	-5.517	-4.699	-3.882	-3.064	-2.246	-1.428
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	5.41	10.24	14.48	18.13	21.20	23.69	25.59	26.90
		$My_{máx}$	0.00	8.14	15.41	21.79	27.30	31.93	35.68	38.56	40.56
		$Mz_{mín}$	0.00	-0.17	-0.34	-0.50	-0.67	-0.84	-1.01	-1.18	-1.34
		$Mz_{máx}$	0.00	-0.10	-0.20	-0.29	-0.39	-0.49	-0.59	-0.69	-0.79

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N95/N54	Aço laminado	$N_{mín}$	38.959	38.959	38.959	38.959	38.959	38.959	38.959	38.959	38.959
		$N_{máx}$	66.447	66.447	66.447	66.447	66.447	66.447	66.447	66.447	66.447
		$Vy_{mín}$	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235
		$Vy_{máx}$	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137	-0.137
		$Vz_{mín}$	1.428	2.245	3.063	3.881	4.699	5.516	6.334	7.152	7.970
		$Vz_{máx}$	2.178	3.405	4.631	5.858	7.085	8.311	9.538	10.765	11.991
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	26.90	25.59	23.69	21.20	18.13	14.48	10.24	5.41	0.00
		$My_{máx}$	40.56	38.56	35.69	31.93	27.30	21.79	15.41	8.14	0.00
		$Mz_{mín}$	-1.34	-1.18	-1.01	-0.84	-0.67	-0.50	-0.34	-0.17	0.00
		$Mz_{máx}$	-0.79	-0.69	-0.59	-0.49	-0.39	-0.29	-0.20	-0.10	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N57/N96	Aço laminado	$N_{mín}$	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
		$N_{máx}$	27.850	27.850	27.850	27.850	27.850	27.850	27.850	27.850	27.850
		$Vy_{mín}$	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
		$Vy_{máx}$	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603	1.603
		$Vz_{mín}$	-10.654	-9.428	-8.201	-6.974	-5.748	-4.521	-3.294	-2.068	-0.841
		$Vz_{máx}$	-7.062	-6.244	-5.426	-4.609	-3.791	-2.973	-2.155	-1.337	-0.520
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	4.76	8.94	12.53	15.53	17.95	19.79	21.04	21.70
		$My_{máx}$	0.00	7.19	13.49	18.92	23.48	27.15	29.95	31.86	32.91
		$Mz_{mín}$	0.00	-1.15	-2.29	-3.44	-4.59	-5.74	-6.88	-8.03	-9.18
		$Mz_{máx}$	0.00	-0.10	-0.21	-0.31	-0.42	-0.52	-0.63	-0.73	-0.83

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N96/N56	Aço laminado	$N_{mín}$	-5.160	-5.160	-5.160	-5.160	-5.160	-5.160	-5.160	-5.160	-5.160
		$N_{máx}$	29.175	29.175	29.175	29.175	29.175	29.175	29.175	29.175	29.175
		$Vy_{mín}$	-1.527	-1.527	-1.527	-1.527	-1.527	-1.527	-1.527	-1.527	-1.527
		$Vy_{máx}$	-0.389	-0.389	-0.389	-0.389	-0.389	-0.389	-0.389	-0.389	-0.389
		$Vz_{mín}$	0.529	1.347	2.165	2.983	3.800	4.618	5.436	6.254	7.071
		$Vz_{máx}$	0.860	2.087	3.314	4.540	5.767	6.994	8.220	9.447	10.674
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	21.76	21.09	19.83	17.99	15.56	12.55	8.95	4.77	0.00
		$My_{máx}$	33.02	31.96	30.03	27.22	23.53	18.96	13.52	7.20	0.00
		$Mz_{mín}$	-8.74	-7.65	-6.56	-5.46	-4.37	-3.28	-2.19	-1.09	0.00
		$Mz_{máx}$	-2.23	-1.95	-1.67	-1.39	-1.11	-0.84	-0.56	-0.28	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N88/N89	Aço laminado	$N_{mín}$	9.853	9.860	9.866	9.869	9.875	9.882	9.888	9.891	9.898
		$N_{máx}$	15.188	15.197	15.207	15.212	15.221	15.231	15.240	15.245	15.254
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.393 m	0.785 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N89/N90	Aço laminado	$N_{mín}$	-22.572	-22.566	-22.563	-22.557	-22.550	-22.544	-22.538	-22.534	-22.528
		$N_{máx}$	-9.198	-9.189	-9.184	-9.175	-9.165	-9.156	-9.146	-9.141	-9.132
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.217	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.145	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.18	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N90/N91	Aço laminado	$N_{mín}$	-44.864	-44.856	-44.852	-44.843	-44.835	-44.827	-44.819	-44.815	-44.806
		$N_{máx}$	-25.076	-25.070	-25.067	-25.060	-25.054	-25.048	-25.041	-25.038	-25.032
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.217	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.145	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.18	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.393 m	0.589 m	0.981 m	1.374 m	1.766 m	2.159 m	2.355 m	2.748 m
N91/N92	Aço laminado	$N_{mín}$	-56.206	-56.198	-56.194	-56.186	-56.177	-56.169	-56.161	-56.157	-56.148
		$N_{máx}$	-31.464	-31.457	-31.454	-31.448	-31.441	-31.435	-31.429	-31.426	-31.419
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.217	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.145	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.18	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N94/N93	Aço laminado	$N_{mín}$	-41.544	-41.532	-41.521	-41.515	-41.503	-41.492	-41.481	-41.475	-41.463
		$N_{máx}$	-21.802	-21.793	-21.784	-21.780	-21.771	-21.762	-21.753	-21.749	-21.740
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N95/N94	Aço laminado	$N_{mín}$	10.914	10.923	10.927	10.936	10.945	10.954	10.963	10.967	10.976
		$N_{máx}$	17.203	17.217	17.223	17.237	17.250	17.263	17.276	17.283	17.296
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
		$Vz_{mín}$	-0.926	-0.817	-0.763	-0.654	-0.546	-0.444	-0.350	-0.308	-0.236
		$Vz_{máx}$	-0.574	-0.502	-0.466	-0.393	-0.321	-0.249	-0.176	-0.131	-0.022

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.21	0.31	0.48	0.62	0.73	0.81	0.84	0.88
		$My_{máx}$	0.00	0.34	0.50	0.78	1.01	1.21	1.36	1.42	1.51
		$Mz_{mín}$	0.00	-0.01	-0.01	-0.02	-0.03	-0.04	-0.04	-0.05	-0.06
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N58/N97	Aço laminado	$N_{mín}$	15.102	15.102	15.102	15.102	15.102	15.102	15.102	15.102	15.102
		$N_{máx}$	31.965	31.965	31.965	31.965	31.965	31.965	31.965	31.965	31.965
		$Vy_{mín}$	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.138
		$Vy_{máx}$	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236
		$Vz_{mín}$	-11.716	-10.489	-9.262	-8.036	-6.809	-5.582	-4.356	-3.129	-1.902
		$Vz_{máx}$	-7.808	-6.990	-6.172	-5.354	-4.537	-3.719	-2.901	-2.083	-1.266
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	5.29	10.00	14.13	17.67	20.62	22.99	24.77	25.97
		$My_{máx}$	0.00	7.95	15.01	21.20	26.51	30.95	34.50	37.18	38.98
		$Mz_{mín}$	0.00	-0.17	-0.34	-0.51	-0.67	-0.84	-1.01	-1.18	-1.35
		$Mz_{máx}$	0.00	-0.10	-0.20	-0.30	-0.39	-0.49	-0.59	-0.69	-0.79

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.716 m	1.431 m	2.147 m	2.863 m	3.578 m	4.294 m	5.009 m	5.725 m
N97/N33	Aço laminado	$N_{mín}$	13.633	13.633	13.633	13.633	13.633	13.633	13.633	13.633	13.633
		$N_{máx}$	36.128	36.128	36.128	36.128	36.128	36.128	36.128	36.128	36.128
		$Vy_{mín}$	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236	-0.236
		$Vy_{máx}$	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138	-0.138
		$Vz_{mín}$	1.265	2.083	2.901	3.719	4.536	5.354	6.172	6.990	7.807
		$Vz_{máx}$	1.904	3.130	4.357	5.584	6.810	8.037	9.264	10.490	11.717
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	25.97	24.77	22.99	20.62	17.67	14.13	10.00	5.29	0.00
		$My_{máx}$	38.99	37.19	34.51	30.95	26.52	21.20	15.01	7.95	0.00
		$Mz_{mín}$	-1.35	-1.18	-1.01	-0.84	-0.67	-0.51	-0.34	-0.17	0.00
		$Mz_{máx}$	-0.79	-0.69	-0.59	-0.49	-0.39	-0.30	-0.20	-0.10	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N57/N97	Aço laminado	$N_{mín}$	-19.392	-19.382	-19.371	-19.361	-19.351	-19.341	-19.330	-19.320	-19.310
		$N_{máx}$	2.366	2.373	2.380	2.387	2.393	2.400	2.407	2.414	2.421
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N56/N97	Aço laminado	$N_{mín}$	-21.428	-21.418	-21.407	-21.397	-21.387	-21.377	-21.366	-21.356	-21.347
		$N_{máx}$	3.662	3.669	3.676	3.682	3.689	3.696	3.703	3.710	3.718
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N58/N95	Aço laminado	$N_{mín}$	-15.895	-15.886	-15.877	-15.868	-15.859	-15.850	-15.842	-15.833	-15.824
		$N_{máx}$	-5.969	-5.962	-5.955	-5.948	-5.941	-5.935	-5.928	-5.921	-5.914
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N33/N95	Aço laminado	$N_{mín}$	-17.898	-17.888	-17.878	-17.868	-17.858	-17.847	-17.837	-17.827	-17.817
		$N_{máx}$	-1.853	-1.846	-1.840	-1.833	-1.826	-1.819	-1.812	-1.806	-1.799
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N55/N94	Aço laminado	$N_{mín}$	-55.064	-55.053	-55.043	-55.033	-55.023	-55.012	-55.002	-54.992	-54.982
		$N_{máx}$	-21.337	-21.330	-21.324	-21.317	-21.310	-21.303	-21.296	-21.290	-21.283
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N54/N94	Aço laminado	$N_{mín}$	-58.800	-58.790	-58.780	-58.769	-58.759	-58.749	-58.739	-58.729	-58.718
		$N_{máx}$	-19.944	-19.937	-19.930	-19.923	-19.917	-19.910	-19.903	-19.896	-19.889
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N53/N93	Aço laminado	$N_{mín}$	-37.430	-37.420	-37.410	-37.400	-37.389	-37.379	-37.369	-37.359	-37.348
		$N_{máx}$	-14.870	-14.863	-14.856	-14.849	-14.842	-14.836	-14.829	-14.822	-14.815
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N52/N93	Aço laminado	$N_{mín}$	-48.392	-48.381	-48.371	-48.361	-48.351	-48.340	-48.330	-48.320	-48.310

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		$N_{máx}$	-16.327	-16.320	-16.313	-16.307	-16.300	-16.293	-16.286	-16.279	-16.272
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N41/N89	Aço laminado	$N_{mín}$	-34.378	-34.370	-34.363	-34.356	-34.348	-34.341	-34.334	-34.326	-34.319
		$N_{máx}$	-13.243	-13.238	-13.233	-13.228	-13.224	-13.219	-13.214	-13.209	-13.204
		$Vy_{mín}$	-0.290	-0.290	-0.290	-0.290	-0.290	-0.290	-0.290	-0.290	-0.290
		$Vy_{máx}$	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192	-0.192
		$Vz_{mín}$	-1.188	-0.974	-0.760	-0.546	-0.355	-0.188	-0.046	0.097	0.240
		$Vz_{máx}$	-0.789	-0.647	-0.504	-0.361	-0.218	-0.044	0.170	0.384	0.598
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.63	1.13	1.51	1.76	1.89	1.90	1.77	1.53
		$My_{máx}$	0.00	0.95	1.70	2.28	2.66	2.86	2.87	2.74	2.49
		$Mz_{mín}$	0.00	0.17	0.34	0.50	0.67	0.84	1.01	1.17	1.34
		$Mz_{máx}$	0.00	0.25	0.51	0.76	1.02	1.27	1.52	1.78	2.03

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N40/N89	Aço laminado	$N_{mín}$	-36.152	-36.145	-36.137	-36.130	-36.123	-36.115	-36.108	-36.101	-36.093
		$N_{máx}$	-11.623	-11.618	-11.613	-11.608	-11.603	-11.599	-11.594	-11.589	-11.584
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N42/N90	Aço laminado	$N_{mín}$	-26.982	-26.975	-26.969	-26.962	-26.956	-26.950	-26.943	-26.937	-26.931
		$N_{máx}$	-12.157	-12.152	-12.147	-12.142	-12.138	-12.133	-12.128	-12.123	-12.118
		$Vy_{mín}$	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239	-0.239
		$Vy_{máx}$	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154	-0.154
		$Vz_{mín}$	-1.092	-0.878	-0.664	-0.450	-0.245	-0.084	0.059	0.202	0.344
		$Vz_{máx}$	-0.718	-0.575	-0.432	-0.289	-0.147	0.037	0.251	0.466	0.680
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.57	1.01	1.32	1.51	1.58	1.52	1.34	1.03
		$My_{máx}$	0.00	0.86	1.54	2.02	2.32	2.44	2.36	2.10	1.71
		$Mz_{mín}$	0.00	0.13	0.27	0.40	0.54	0.67	0.81	0.94	1.08
		$Mz_{máx}$	0.00	0.21	0.42	0.63	0.84	1.05	1.25	1.46	1.67

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N43/N90	Aço laminado	$N_{mín}$	-32.719	-32.712	-32.705	-32.697	-32.690	-32.683	-32.675	-32.668	-32.661
		$N_{máx}$	-13.175	-13.170	-13.165	-13.161	-13.156	-13.151	-13.146	-13.141	-13.136
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N47/N92	Aço laminado	$N_{mín}$	-35.142	-35.135	-35.128	-35.120	-35.113	-35.106	-35.098	-35.091	-35.084
		$N_{máx}$	-15.217	-15.212	-15.207	-15.203	-15.198	-15.193	-15.188	-15.183	-15.178
		$Vy_{mín}$	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
		$Vy_{máx}$	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
		$Vz_{mín}$	-0.675	-0.460	-0.246	-0.032	0.118	0.261	0.404	0.546	0.689
		$Vz_{máx}$	-0.449	-0.306	-0.163	-0.021	0.184	0.398	0.612	0.826	1.040
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.33	0.54	0.62	0.57	0.40	0.11	-0.47	-1.29
		$My_{máx}$	0.00	0.50	0.81	0.93	0.86	0.61	0.17	-0.29	-0.83
		$Mz_{mín}$	0.00	0.01	0.02	0.03	0.05	0.06	0.07	0.08	0.09
		$Mz_{máx}$	0.00	0.02	0.04	0.05	0.07	0.09	0.11	0.12	0.14

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N46/N92	Aço laminado	$N_{mín}$	-39.731	-39.724	-39.717	-39.709	-39.702	-39.695	-39.687	-39.680	-39.673
		$N_{máx}$	-13.313	-13.308	-13.303	-13.298	-13.293	-13.289	-13.284	-13.279	-13.274
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.391 m	0.782 m	0.978 m	1.369 m	1.760 m	2.151 m	2.346 m	2.737 m
N93/N92	Aço laminado	$N_{mín}$	-64.582	-64.581	-64.579	-64.578	-64.577	-64.575	-64.574	-64.573	-64.571
		$N_{máx}$	-38.132	-38.130	-38.129	-38.129	-38.127	-38.126	-38.125	-38.124	-38.123
		$Vy_{mín}$	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
		$Vy_{máx}$	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
		$Vz_{mín}$	-0.134	-0.039	0.034	0.070	0.142	0.215	0.287	0.323	0.395
		$Vz_{máx}$	-0.041	0.044	0.153	0.207	0.315	0.424	0.532	0.587	0.695

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.391 m	0.782 m	0.978 m	1.369 m	1.760 m	2.151 m	2.346 m	2.737 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.00	-0.03	-0.07	-0.17	-0.32	-0.50	-0.61	-0.86
		$My_{máx}$	0.00	0.03	0.03	0.02	-0.02	-0.09	-0.19	-0.25	-0.39
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
N93/N49	Aço laminado	$N_{mín}$	-14.901	-14.899	-14.898	-14.897	-14.895	-14.894	-14.892	-14.891	-14.889
		$N_{máx}$	-0.102	-0.101	-0.100	-0.099	-0.098	-0.097	-0.096	-0.095	-0.094
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.64	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
N93/N48	Aço laminado	$N_{mín}$	-15.652	-15.651	-15.649	-15.648	-15.646	-15.645	-15.644	-15.642	-15.641
		$N_{máx}$	-3.356	-3.355	-3.354	-3.353	-3.352	-3.351	-3.350	-3.349	-3.348
		$Vy_{mín}$	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007
		$Vy_{máx}$	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
		$Vz_{mín}$	-1.068	-0.854	-0.640	-0.426	-0.212	-0.014	0.129	0.272	0.415
		$Vz_{máx}$	-0.687	-0.544	-0.401	-0.259	-0.116	0.043	0.257	0.471	0.686
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-1.48	-0.64	-0.07	0.25	0.45	0.53	0.48	0.30	0.00
		$My_{máx}$	-0.81	-0.27	0.23	0.66	0.90	0.96	0.82	0.51	0.00
		$Mz_{mín}$	-0.05	-0.04	-0.04	-0.03	-0.02	-0.02	-0.01	-0.01	0.00
		$Mz_{máx}$	0.15	0.13	0.11	0.09	0.07	0.06	0.04	0.02	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N45/N91	Aço laminado	$N_{mín}$	-29.367	-29.360	-29.352	-29.345	-29.338	-29.330	-29.323	-29.316	-29.308
		$N_{máx}$	-7.870	-7.865	-7.860	-7.855	-7.850	-7.845	-7.840	-7.836	-7.831
		$Vy_{mín}$	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189	-0.189
		$Vy_{máx}$	-0.113	-0.113	-0.113	-0.113	-0.113	-0.113	-0.113	-0.113	-0.113
		$Vz_{mín}$	-0.997	-0.783	-0.569	-0.354	-0.140	0.024	0.167	0.310	0.453
		$Vz_{máx}$	-0.640	-0.497	-0.354	-0.212	-0.069	0.123	0.338	0.552	0.766
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.50	0.87	1.12	1.24	1.24	1.11	0.86	0.48
		$My_{máx}$	0.00	0.78	1.37	1.77	1.99	2.02	1.86	1.51	0.98
		$Mz_{mín}$	0.00	0.10	0.20	0.30	0.39	0.49	0.59	0.69	0.79
		$Mz_{máx}$	0.00	0.17	0.33	0.50	0.66	0.83	0.99	1.16	1.32

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N44/N91	Aço laminado	$N_{mín}$	-31.923	-31.916	-31.909	-31.901	-31.894	-31.887	-31.879	-31.872	-31.865
		$N_{máx}$	-8.920	-8.915	-8.910	-8.905	-8.900	-8.896	-8.891	-8.886	-8.881
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N4/N198	Aço laminado	$N_{mín}$	1199.615	1199.622	1199.630
		$N_{máx}$	2340.132	2340.142	2340.152
		$Vy_{mín}$	-56.997	-56.997	-56.997
		$Vy_{máx}$	61.801	61.548	61.296

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vz_{mín}$	-81.650	-81.066	-80.482
		$Vz_{máx}$	71.675	72.124	72.573
		$Mt_{mín}$	-69.48	-69.48	-69.48
		$Mt_{máx}$	35.33	35.33	35.33
		$My_{mín}$	194.61	197.20	199.74
		$My_{máx}$	451.05	457.32	463.51
		$Mz_{mín}$	-95.26	-88.14	-81.02
		$Mz_{máx}$	88.60	80.89	73.21

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N198/N166	Aço laminado	$N_{mín}$	1213.236	1213.248	1213.259	1213.271	1213.283	1213.294	1213.306
		$N_{máx}$	2375.498	2375.513	2375.528	2375.543	2375.558	2375.573	2375.588
		$Vy_{mín}$	-48.640	-48.640	-48.640	-48.640	-48.640	-48.640	-48.640
		$Vy_{máx}$	43.988	43.612	43.236	42.859	42.483	42.107	41.731
		$Vz_{mín}$	10.969	11.639	12.309	12.979	13.649	14.319	14.989
		$Vz_{máx}$	58.554	59.425	60.296	61.167	62.038	62.909	63.780
		$Mt_{mín}$	-5.72	-5.72	-5.72	-5.72	-5.72	-5.72	-5.72
		$Mt_{máx}$	2.71	2.71	2.71	2.71	2.71	2.71	2.71
		$My_{mín}$	164.66	162.55	160.32	157.96	155.48	152.87	150.14
		$My_{máx}$	379.37	371.79	364.06	356.17	348.11	339.89	331.50
		$Mz_{mín}$	-77.16	-68.09	-59.03	-49.95	-40.88	-31.82	-22.75
		$Mz_{máx}$	64.83	56.66	48.57	40.54	32.58	24.70	16.88

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N166/N197	Aço laminado	$N_{mín}$	1213.306	1213.317	1213.329	1213.340	1213.352	1213.363	1213.375
		$N_{máx}$	2375.588	2375.603	2375.618	2375.633	2375.648	2375.663	2375.678
		$Vy_{mín}$	-48.640	-48.640	-48.640	-48.640	-48.640	-48.640	-48.640
		$Vy_{máx}$	41.731	41.354	40.978	40.602	40.226	39.850	39.473
		$Vz_{mín}$	14.989	15.659	16.329	16.999	17.669	18.339	19.009
		$Vz_{máx}$	63.780	64.651	65.522	66.393	67.264	68.135	69.006
		$Mt_{mín}$	-5.72	-5.72	-5.72	-5.72	-5.72	-5.72	-5.72

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		$Mt_{máx}$	2.71	2.71	2.71	2.71	2.71	2.71	2.71
		$My_{mín}$	150.14	147.28	144.30	141.20	137.96	134.61	131.12
		$My_{máx}$	331.50	322.96	314.25	305.38	296.34	287.15	277.79
		$Mz_{mín}$	-22.75	-13.68	-4.61	-6.39	-13.74	-21.15	-28.54
		$Mz_{máx}$	16.88	9.14	1.46	4.71	13.59	22.60	31.67

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N197/N164	Aço laminado	$N_{mín}$	1232.278	1232.286	1232.294
		$N_{máx}$	2417.202	2417.212	2417.222
		$Vy_{mín}$	-43.994	-43.994	-43.994
		$Vy_{máx}$	30.485	30.232	29.980
		$Vz_{mín}$	-243.595	-243.011	-242.427
		$Vz_{máx}$	-72.896	-72.447	-71.998
		$Mt_{mín}$	-3.63	-3.63	-3.63
		$Mt_{máx}$	4.38	4.38	4.38
		$My_{mín}$	120.34	134.22	148.04
		$My_{máx}$	250.87	279.40	307.86
		$Mz_{mín}$	-27.70	-31.49	-35.26
		$Mz_{máx}$	31.14	36.64	42.13

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N164/N196	Aço laminado	$N_{mín}$	1212.473	1212.481	1212.489
		$N_{máx}$	2418.608	2418.618	2418.628
		$Vy_{mín}$	-26.838	-27.090	-27.342
		$Vy_{máx}$	42.979	42.979	42.979
		$Vz_{mín}$	68.592	69.041	69.490
		$Vz_{máx}$	238.080	238.664	239.248
		$Mt_{mín}$	-3.63	-3.63	-3.63
		$Mt_{máx}$	4.38	4.38	4.38
		$My_{mín}$	146.90	133.02	119.08

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$My_{máx}$	305.56	277.98	250.34
		$Mz_{mín}$	-34.96	-31.59	-28.19
		$Mz_{máx}$	41.69	36.31	30.94

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N196/N165	Aço laminado	$N_{mín}$	1187.382	1187.394	1187.405	1187.417	1187.428	1187.440	1187.451
		$N_{máx}$	2369.420	2369.435	2369.450	2369.465	2369.480	2369.494	2369.509
		$Vy_{mín}$	-31.164	-31.540	-31.917	-32.293	-32.669	-33.045	-33.422
		$Vy_{máx}$	42.863	42.863	42.863	42.863	42.863	42.863	42.863
		$Vz_{mín}$	-67.561	-66.690	-65.819	-64.948	-64.077	-63.206	-62.335
		$Vz_{máx}$	-24.856	-24.186	-23.516	-22.846	-22.176	-21.506	-20.836
		$Mt_{mín}$	-3.46	-3.46	-3.46	-3.46	-3.46	-3.46	-3.46
		$Mt_{máx}$	7.64	7.64	7.64	7.64	7.64	7.64	7.64
		$My_{mín}$	133.67	138.24	142.69	147.01	151.21	155.28	159.23
		$My_{máx}$	277.87	286.90	295.76	304.47	313.02	321.40	329.62
		$Mz_{mín}$	-28.45	-22.61	-16.96	-11.34	-5.72	-9.12	-17.11
		$Mz_{máx}$	30.84	22.86	15.13	7.51	-0.05	1.48	7.68

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N165/N195	Aço laminado	$N_{mín}$	1187.451	1187.463	1187.474	1187.486	1187.497	1187.509	1187.520
		$N_{máx}$	2369.509	2369.524	2369.539	2369.554	2369.569	2369.584	2369.599
		$Vy_{mín}$	-33.422	-33.798	-34.174	-34.550	-34.927	-35.303	-35.679
		$Vy_{máx}$	42.863	42.863	42.863	42.863	42.863	42.863	42.863
		$Vz_{mín}$	-62.335	-61.464	-60.593	-59.722	-58.851	-57.980	-57.109
		$Vz_{máx}$	-20.836	-20.166	-19.496	-18.826	-18.156	-17.486	-16.816
		$Mt_{mín}$	-3.46	-3.46	-3.46	-3.46	-3.46	-3.46	-3.46
		$Mt_{máx}$	7.64	7.64	7.64	7.64	7.64	7.64	7.64
		$My_{mín}$	159.23	163.05	166.75	170.32	173.77	177.09	180.29
		$My_{máx}$	329.62	337.68	345.57	353.30	360.88	368.28	375.53
		$Mz_{mín}$	-17.11	-25.11	-33.09	-41.09	-49.08	-57.07	-65.06
		$Mz_{máx}$	7.68	13.95	20.28	26.69	33.17	39.72	46.33

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N195/N3	Aço laminado	$N_{mín}$	1172.336	1172.344	1172.351
		$N_{máx}$	2338.707	2338.717	2338.727
		$Vy_{mín}$	-50.117	-50.369	-50.621
		$Vy_{máx}$	47.088	47.088	47.088
		$Vz_{mín}$	-76.595	-76.146	-75.696
		$Vz_{máx}$	77.175	77.759	78.343
		$Mt_{mín}$	-36.21	-36.21	-36.21
		$Mt_{máx}$	81.65	81.65	81.65
		$My_{mín}$	220.08	216.98	213.83
		$My_{máx}$	457.11	451.78	446.37
		$Mz_{mín}$	-68.00	-73.89	-79.78
		$Mz_{máx}$	54.04	60.32	66.63

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N11/N216	Aço laminado	$N_{mín}$	1184.075	1184.083	1184.090
		$N_{máx}$	2298.773	2298.783	2298.793
		$Vy_{mín}$	-8.908	-8.655	-8.403
		$Vy_{máx}$	37.392	37.392	37.392
		$Vz_{mín}$	-76.370	-75.786	-75.202
		$Vz_{máx}$	77.979	78.428	78.877
		$Mt_{mín}$	-43.49	-43.49	-43.49
		$Mt_{máx}$	88.41	88.41	88.41
		$My_{mín}$	209.55	212.87	216.14
		$My_{máx}$	444.12	449.28	454.37
		$Mz_{mín}$	20.84	21.94	23.01
		$Mz_{máx}$	67.47	63.49	59.52

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N216/N71	Aço laminado	$N_{mín}$	1200.706	1200.718	1200.729	1200.741	1200.752	1200.764	1200.775

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		$N_{máx}$	2331.642	2331.657	2331.672	2331.687	2331.702	2331.717	2331.732
		$Vy_{mín}$	11.428	11.805	12.181	12.557	12.933	13.309	13.686
		$Vy_{máx}$	37.181	37.181	37.181	37.181	37.181	37.181	37.181
		$Vz_{mín}$	14.566	15.236	15.906	16.576	17.246	17.916	18.586
		$Vz_{máx}$	57.244	58.115	58.985	59.857	60.728	61.598	62.470
		$Mt_{mín}$	-3.50	-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		$Mt_{máx}$	7.64	7.64	7.64	7.64	7.64	7.64	7.64
		$My_{mín}$	175.71	172.93	170.03	167.00	163.85	160.57	157.17
		$My_{máx}$	373.65	366.40	358.98	351.40	343.66	335.76	327.69
		$Mz_{mín}$	24.52	20.85	17.18	13.51	9.83	6.16	2.49
		$Mz_{máx}$	64.31	57.38	50.45	43.51	36.58	29.75	24.97

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N71/N215	Aço laminado	$N_{mín}$	1200.775	1200.787	1200.798	1200.810	1200.821	1200.833	1200.844
		$N_{máx}$	2331.732	2331.747	2331.762	2331.777	2331.792	2331.806	2331.821
		$Vy_{mín}$	13.686	14.062	14.438	14.814	15.191	15.567	15.943
		$Vy_{máx}$	37.181	37.181	37.181	37.181	37.181	37.181	37.181
		$Vz_{mín}$	18.586	19.256	19.926	20.596	21.266	21.936	22.606
		$Vz_{máx}$	62.470	63.341	64.211	65.083	65.954	66.824	67.696
		$Mt_{mín}$	-3.50	-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		$Mt_{máx}$	7.64	7.64	7.64	7.64	7.64	7.64	7.64
		$My_{mín}$	157.17	153.64	149.99	146.21	142.30	138.28	134.12
		$My_{máx}$	327.69	319.46	311.07	302.51	293.80	284.92	275.88
		$Mz_{mín}$	2.49	-1.18	-4.85	-8.52	-13.14	-18.39	-23.63
		$Mz_{máx}$	24.97	20.81	16.58	12.28	8.85	5.99	3.05

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N215/N10	Aço laminado	$N_{mín}$	1222.069	1222.077	1222.085
		$N_{máx}$	2371.309	2371.319	2371.329
		$Vy_{mín}$	14.832	14.832	14.832

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vy_{máx}$	37.765	37.765	37.765
		$Vz_{mín}$	-236.938	-236.354	-235.770
		$Vz_{máx}$	-67.518	-67.069	-66.620
		$Mt_{mín}$	-3.26	-3.26	-3.26
		$Mt_{máx}$	3.41	3.41	3.41
		$My_{mín}$	119.60	134.21	148.76
		$My_{máx}$	251.69	279.09	306.42
		$Mz_{mín}$	-23.05	-25.98	-28.91
		$Mz_{máx}$	2.13	-1.02	-4.19

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N10/N214	Aço laminado	$N_{mín}$	1237.002	1237.010	1237.018
		$N_{máx}$	2398.792	2398.802	2398.812
		$Vy_{mín}$	-32.972	-32.972	-32.972
		$Vy_{máx}$	-12.238	-11.986	-11.734
		$Vz_{mín}$	72.905	73.354	73.803
		$Vz_{máx}$	243.413	243.997	244.581
		$Mt_{mín}$	-3.26	-3.26	-3.26
		$Mt_{máx}$	3.41	3.41	3.41
		$My_{mín}$	147.63	134.70	121.72
		$My_{máx}$	304.12	275.59	246.98
		$Mz_{mín}$	-28.63	-24.77	-20.91
		$Mz_{máx}$	-4.00	-2.49	-1.00

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N214/N72	Aço laminado	$N_{mín}$	1214.625	1214.637	1214.648	1214.660	1214.671	1214.683	1214.694
		$N_{máx}$	2347.565	2347.580	2347.595	2347.610	2347.625	2347.640	2347.655
		$Vy_{mín}$	-32.773	-32.773	-32.773	-32.773	-32.773	-32.773	-32.773
		$Vy_{máx}$	-7.878	-7.502	-7.126	-6.749	-6.373	-5.997	-5.621

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		$Vz_{mín}$	-68.674	-67.803	-66.933	-66.061	-65.190	-64.320	-63.448
		$Vz_{máx}$	-19.127	-18.456	-17.787	-17.117	-16.446	-15.777	-15.107
		$Mt_{mín}$	-6.10	-6.10	-6.10	-6.10	-6.10	-6.10	-6.10
		$Mt_{máx}$	3.06	3.06	3.06	3.06	3.06	3.06	3.06
		$My_{mín}$	133.62	137.12	140.50	143.76	146.89	149.89	152.77
		$My_{máx}$	277.01	286.31	295.44	304.42	313.23	321.88	330.37
		$Mz_{mín}$	-20.80	-15.06	-9.33	-3.65	0.92	5.22	6.75
		$Mz_{máx}$	-0.80	0.64	2.00	3.35	5.74	10.85	16.96

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N72/N213	Aço laminado	$N_{mín}$	1214.694	1214.706	1214.717	1214.729	1214.740	1214.752	1214.763
		$N_{máx}$	2347.655	2347.670	2347.685	2347.700	2347.715	2347.730	2347.745
		$Vy_{mín}$	-32.773	-32.773	-32.773	-32.773	-32.773	-32.773	-32.773
		$Vy_{máx}$	-5.621	-5.244	-4.868	-4.492	-4.116	-3.740	-3.363
		$Vz_{mín}$	-63.448	-62.577	-61.707	-60.835	-59.964	-59.094	-58.222
		$Vz_{máx}$	-15.107	-14.436	-13.767	-13.097	-12.426	-11.757	-11.087
		$Mt_{mín}$	-6.10	-6.10	-6.10	-6.10	-6.10	-6.10	-6.10
		$Mt_{máx}$	3.06	3.06	3.06	3.06	3.06	3.06	3.06
		$My_{mín}$	152.77	155.52	158.15	160.66	163.04	165.29	167.42
		$My_{máx}$	330.37	338.69	346.85	354.85	362.69	370.37	377.88
		$Mz_{mín}$	6.75	7.77	8.71	9.58	10.39	11.12	11.78
		$Mz_{máx}$	16.96	23.08	29.18	35.30	41.41	47.52	53.63

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N213/N9	Aço laminado	$N_{mín}$	1201.482	1201.490	1201.497
		$N_{máx}$	2315.063	2315.073	2315.083
		$Vy_{mín}$	-34.687	-34.687	-34.687
		$Vy_{máx}$	9.071	9.323	9.575
		$Vz_{mín}$	-71.176	-70.727	-70.278
		$Vz_{máx}$	81.679	82.262	82.846

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mt_{mín}$	-65.48	-65.48	-65.48
		$Mt_{máx}$	31.82	31.82	31.82
		$My_{mín}$	203.37	200.52	197.60
		$My_{máx}$	462.03	455.70	449.30
		$Mz_{mín}$	5.58	4.43	3.24
		$Mz_{máx}$	50.81	55.09	59.43

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
N82/N167	Aço laminado	$N_{mín}$	-38.468	-38.467	-38.466	-38.466	-38.465	-38.464	-38.463
		$N_{máx}$	1.851	1.852	1.853	1.854	1.855	1.856	1.857
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.316	-0.253	-0.190	-0.127	-0.063	0.000
		$Vz_{máx}$	-0.253	-0.211	-0.169	-0.127	-0.084	-0.042	0.000
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.05	0.10	0.13	0.15	0.17	0.17
		$My_{máx}$	0.00	0.08	0.14	0.19	0.23	0.25	0.26
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
N167/N81	Aço laminado	$N_{mín}$	-38.463	-38.463	-38.462	-38.461	-38.461	-38.460	-38.459
		$N_{máx}$	1.857	1.858	1.860	1.861	1.862	1.863	1.864
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	0.000	0.042	0.084	0.127	0.169	0.211	0.253
		$Vz_{máx}$	0.000	0.063	0.127	0.190	0.253	0.316	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.17	0.17	0.15	0.13	0.10	0.05	0.00
		$My_{máx}$	0.26	0.25	0.23	0.19	0.14	0.08	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
N83/N168	Aço laminado	$N_{mín}$	-28.676	-28.675	-28.675	-28.674	-28.673	-28.672	-28.672
		$N_{máx}$	9.434	9.435	9.436	9.437	9.439	9.440	9.441
		$Vy_{mín}$	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		$Vy_{máx}$	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		$Vz_{mín}$	-0.342	-0.278	-0.215	-0.152	-0.088	-0.025	0.035
		$Vz_{máx}$	-0.177	-0.135	-0.093	-0.050	-0.008	0.034	0.078
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.10	0.14	0.18	0.20	0.22	0.22	0.22
		$My_{máx}$	0.21	0.26	0.30	0.33	0.35	0.35	0.35
		$Mz_{mín}$	-0.02	-0.02	-0.02	-0.02	-0.02	-0.01	-0.01
		$Mz_{máx}$	0.02	0.02	0.02	0.02	0.01	0.01	0.01

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
N168/N82	Aço laminado	$N_{mín}$	-28.672	-28.671	-28.670	-28.669	-28.669	-28.668	-28.667
		$N_{máx}$	9.441	9.442	9.443	9.444	9.445	9.446	9.447
		$Vy_{mín}$	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009	-0.009
		$Vy_{máx}$	0.008	0.008	0.008	0.008	0.008	0.008	0.008
		$Vz_{mín}$	0.035	0.077	0.119	0.161	0.204	0.246	0.288
		$Vz_{máx}$	0.078	0.133	0.190	0.254	0.317	0.380	0.443
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.228 m	0.456 m	0.684 m	0.912 m	1.141 m	1.369 m
		$My_{mín}$	0.22	0.21	0.19	0.15	0.11	0.06	0.00
		$My_{máx}$	0.35	0.33	0.29	0.24	0.17	0.09	0.00
		$Mz_{mín}$	-0.01	-0.01	-0.01	-0.01	0.00	0.00	0.00
		$Mz_{máx}$	0.01	0.01	0.01	0.01	0.00	0.00	0.00

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
N13/N67	Aço laminado	$N_{mín}$	345.459	345.559	345.659	345.759	345.859	345.959	346.059
		$N_{máx}$	649.288	649.418	649.548	649.678	649.808	649.938	650.068
		$Vy_{mín}$	-51.065	-50.601	-50.138	-49.674	-49.210	-48.747	-48.283
		$Vy_{máx}$	52.263	52.263	52.263	52.263	52.263	52.263	52.263
		$Vz_{mín}$	46.294	47.114	47.933	48.753	49.573	50.392	51.212
		$Vz_{máx}$	92.093	93.159	94.224	95.290	96.356	97.421	98.487
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	-21.29	-42.81	-64.59	-86.61	-108.86	-131.37
		$My_{máx}$	0.00	-10.73	-21.65	-32.76	-44.06	-55.54	-67.21
		$Mz_{mín}$	0.00	-12.01	-24.02	-36.03	-48.04	-60.04	-72.05
		$Mz_{máx}$	0.00	11.68	23.25	34.72	46.08	57.33	68.48

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N67/N223	Aço laminado	$N_{mín}$	346.059	346.141	346.223	346.305	346.387	346.469	346.551
		$N_{máx}$	650.068	650.175	650.281	650.387	650.494	650.600	650.707
		$Vy_{mín}$	-48.283	-47.903	-47.524	-47.144	-46.765	-46.385	-46.005
		$Vy_{máx}$	52.263	52.263	52.263	52.263	52.263	52.263	52.263
		$Vz_{mín}$	51.212	51.884	52.554	53.226	53.897	54.568	55.239
		$Vz_{máx}$	98.487	99.359	100.231	101.104	101.977	102.849	103.721
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-131.37	-149.99	-168.75	-187.69	-206.80	-226.05	-245.49

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$My_{máx}$	-67.21	-76.91	-86.73	-96.68	-106.76	-116.96	-127.29
		$Mz_{mín}$	-72.05	-81.89	-91.71	-101.55	-111.38	-121.21	-131.04
		$Mz_{máx}$	68.48	77.53	86.51	95.41	104.25	113.00	121.70

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N223/N39	Aço laminado	$N_{mín}$	459.468	459.523	459.577
		$N_{máx}$	856.681	856.752	856.823
		$Vy_{mín}$	-42.961	-42.709	-42.456
		$Vy_{máx}$	52.763	52.763	52.763
		$Vz_{mín}$	-1771.930	-1771.351	-1770.771
		$Vz_{máx}$	-961.040	-960.594	-960.148
		$Mt_{mín}$	0.10	0.10	0.10
		$Mt_{máx}$	1.32	1.32	1.32
		$My_{mín}$	-876.09	-657.78	-439.55
		$My_{máx}$	-471.59	-351.48	-231.44
		$Mz_{mín}$	-130.41	-137.00	-143.60
		$Mz_{máx}$	121.25	126.60	131.93

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N39/N222	Aço laminado	$N_{mín}$	517.994	518.049	518.103
		$N_{máx}$	915.256	915.327	915.397
		$Vy_{mín}$	-50.969	-50.969	-50.969
		$Vy_{máx}$	41.241	41.493	41.746
		$Vz_{mín}$	-1362.530	-1361.950	-1361.370
		$Vz_{máx}$	-735.729	-735.283	-734.837
		$Mt_{mín}$	0.11	0.11	0.11
		$Mt_{máx}$	1.55	1.55	1.55
		$My_{mín}$	-453.58	-283.30	-113.09
		$My_{máx}$	-239.72	-147.78	-51.67

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mz_{mín}$	-139.83	-133.46	-127.09
		$Mz_{máx}$	128.88	123.71	118.51

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N222/N68	Aço laminado	$N_{mín}$	718.823	718.905	718.987	719.069	719.151	719.233	719.315
		$N_{máx}$	1277.482	1277.588	1277.695	1277.801	1277.908	1278.014	1278.121
		$Vy_{mín}$	-50.678	-50.678	-50.678	-50.678	-50.678	-50.678	-50.678
		$Vy_{máx}$	45.308	45.688	46.067	46.447	46.826	47.206	47.585
		$Vz_{mín}$	-255.366	-254.494	-253.621	-252.749	-251.876	-251.004	-250.132
		$Vz_{máx}$	-135.122	-134.450	-133.779	-133.108	-132.437	-131.766	-131.095
		$Mt_{mín}$	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
		$Mt_{máx}$	0.46	0.46	0.46	0.46	0.46	0.46	0.46
		$My_{mín}$	-434.20	-386.24	-338.47	-292.33	-247.78	-203.42	-159.20
		$My_{máx}$	-230.35	-204.99	-179.77	-154.67	-129.68	-104.84	-80.12
		$Mz_{mín}$	-126.80	-117.26	-107.73	-98.20	-88.66	-79.13	-69.60
		$Mz_{máx}$	118.43	109.87	101.24	92.54	83.76	74.92	66.01

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N68/N221	Aço laminado	$N_{mín}$	719.315	719.397	719.479	719.560	719.642	719.724	719.806
		$N_{máx}$	1278.121	1278.227	1278.333	1278.440	1278.546	1278.653	1278.759
		$Vy_{mín}$	-50.678	-50.678	-50.678	-50.678	-50.678	-50.678	-50.678
		$Vy_{máx}$	47.585	47.965	48.345	48.724	49.104	49.483	49.863
		$Vz_{mín}$	-250.132	-249.259	-248.387	-247.514	-246.642	-245.770	-244.897
		$Vz_{máx}$	-131.095	-130.424	-129.753	-129.082	-128.411	-127.740	-127.069
		$Mt_{mín}$	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
		$Mt_{máx}$	0.46	0.46	0.46	0.46	0.46	0.46	0.46
		$My_{mín}$	-159.20	-115.15	-71.28	-27.56	10.66	41.61	65.58
		$My_{máx}$	-80.12	-50.49	-15.47	19.45	59.58	101.73	143.74
		$Mz_{mín}$	-69.60	-60.06	-50.54	-41.00	-31.46	-21.94	-12.40
		$Mz_{máx}$	66.01	57.02	47.96	38.83	29.63	20.36	11.01

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N221/N12	Aço laminado	$N_{mín}$	786.221	786.276	786.330
		$N_{máx}$	1400.890	1400.961	1401.031
		$Vy_{mín}$	-51.516	-51.516	-51.516
		$Vy_{máx}$	54.202	54.454	54.706
		$Vz_{mín}$	-1577.838	-1577.258	-1576.678
		$Vz_{máx}$	-846.836	-846.390	-845.944
		$Mt_{mín}$	-5.24	-5.24	-5.24
		$Mt_{máx}$	5.80	5.80	5.80
		$My_{mín}$	-192.86	-4.57	114.69
		$My_{máx}$	-96.91	52.79	236.45
		$Mz_{mín}$	-12.27	-5.85	-2.70
		$Mz_{máx}$	10.92	4.14	0.75

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N12/N220	Aço laminado	$N_{mín}$	758.805	758.859	758.914
		$N_{máx}$	1454.777	1454.847	1454.918
		$Vy_{mín}$	-3.357	-3.357	-3.357
		$Vy_{máx}$	4.985	4.985	4.985
		$Vz_{mín}$	-1148.264	-1147.684	-1147.104
		$Vz_{máx}$	-614.768	-614.322	-613.876
		$Mt_{mín}$	-5.66	-5.66	-5.66
		$Mt_{máx}$	5.85	5.85	5.85
		$My_{mín}$	105.37	189.82	268.72
		$My_{máx}$	219.90	351.45	492.79
		$Mz_{mín}$	-3.03	-2.72	-2.44
		$Mz_{máx}$	1.04	0.82	0.62

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N220/N69	Aço laminado	$N_{mín}$	955.035	955.117	955.199	955.281	955.363	955.445	955.527

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$N_{máx}$	1812.797	1812.903	1813.010	1813.116	1813.222	1813.329	1813.435
		$Vy_{mín}$	-4.143	-4.143	-4.143	-4.143	-4.143	-4.143	-4.143
		$Vy_{máx}$	7.436	7.816	8.195	8.575	8.954	9.334	9.714
		$Vz_{mín}$	-88.835	-87.962	-87.090	-86.217	-85.345	-84.473	-83.600
		$Vz_{máx}$	-41.960	-41.289	-40.618	-39.947	-39.276	-38.605	-37.934
		$Mt_{mín}$	-0.31	-0.31	-0.31	-0.31	-0.31	-0.31	-0.31
		$Mt_{máx}$	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		$My_{mín}$	73.34	82.65	91.84	100.89	109.82	118.62	126.96
		$My_{máx}$	158.83	170.48	183.61	199.91	216.05	232.02	247.83
		$Mz_{mín}$	-3.82	-3.26	-2.93	-3.65	-4.62	-6.34	-8.13
		$Mz_{máx}$	1.81	0.59	-0.70	-1.22	-0.44	0.33	1.11

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N69/N219	Aço laminado	$N_{mín}$	955.527	955.609	955.691	955.772	955.854	955.936	956.018
		$N_{máx}$	1813.435	1813.542	1813.648	1813.755	1813.861	1813.968	1814.074
		$Vy_{mín}$	-4.143	-4.143	-4.143	-4.143	-4.143	-4.143	-4.143
		$Vy_{máx}$	9.714	10.093	10.473	10.852	11.232	11.611	11.991
		$Vz_{mín}$	-83.600	-82.728	-81.855	-80.983	-80.110	-79.238	-78.366
		$Vz_{máx}$	-37.934	-37.263	-36.592	-35.921	-35.249	-34.579	-33.907
		$Mt_{mín}$	-0.31	-0.31	-0.31	-0.31	-0.31	-0.31	-0.31
		$Mt_{máx}$	0.13	0.13	0.13	0.13	0.13	0.13	0.13
		$My_{mín}$	126.96	134.03	140.98	147.80	154.49	161.06	167.50
		$My_{máx}$	247.83	263.47	278.95	294.27	309.42	324.40	339.23
		$Mz_{mín}$	-8.13	-10.00	-11.93	-13.94	-16.01	-18.16	-20.38
		$Mz_{máx}$	1.11	1.89	2.67	3.45	4.23	5.01	5.79

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N219/N38	Aço laminado	$N_{mín}$	1009.851	1009.906	1009.960
		$N_{máx}$	1911.835	1911.906	1911.977
		$Vy_{mín}$	-4.625	-4.625	-4.625

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vy_{máx}$	16.213	16.465	16.718
		$Vz_{mín}$	-1152.366	-1151.787	-1151.207
		$Vz_{máx}$	-610.476	-610.030	-609.584
		$Mt_{mín}$	-4.64	-4.64	-4.64
		$Mt_{máx}$	3.21	3.21	3.21
		$My_{mín}$	31.65	114.81	191.04
		$My_{máx}$	106.62	249.81	392.92
		$Mz_{mín}$	-20.46	-22.51	-24.58
		$Mz_{máx}$	5.87	6.45	7.03

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N38/N218	Aço laminado	$N_{mín}$	1025.768	1025.822	1025.876
		$N_{máx}$	1980.876	1980.947	1981.018
		$Vy_{mín}$	-29.883	-29.883	-29.883
		$Vy_{máx}$	3.978	4.230	4.482
		$Vz_{mín}$	-768.198	-767.618	-767.039
		$Vz_{máx}$	-380.692	-380.246	-379.800
		$Mt_{mín}$	-2.02	-2.02	-2.02
		$Mt_{máx}$	1.12	1.12	1.12
		$My_{mín}$	186.64	234.19	281.70
		$My_{máx}$	374.15	454.03	533.83
		$Mz_{mín}$	-23.08	-23.07	-23.09
		$Mz_{máx}$	6.98	10.20	13.41

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N218/N70	Aço laminado	$N_{mín}$	1149.142	1149.224	1149.306	1149.388	1149.470	1149.552	1149.634
		$N_{máx}$	2191.107	2191.214	2191.320	2191.426	2191.533	2191.639	2191.746
		$Vy_{mín}$	-30.609	-30.609	-30.609	-30.609	-30.609	-30.609	-30.609
		$Vy_{máx}$	9.053	9.432	9.812	10.192	10.571	10.951	11.330

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$Vz_{mín}$	-60.669	-59.797	-58.925	-58.052	-57.180	-56.308	-55.435
		$Vz_{máx}$	-24.601	-23.929	-23.259	-22.587	-21.916	-21.245	-20.574
		$Mt_{mín}$	-7.22	-7.22	-7.22	-7.22	-7.22	-7.22	-7.22
		$Mt_{máx}$	3.24	3.24	3.24	3.24	3.24	3.24	3.24
		$My_{mín}$	157.67	162.24	166.68	170.99	175.18	179.23	183.17
		$My_{máx}$	317.45	324.57	331.53	338.32	344.95	351.42	357.72
		$Mz_{mín}$	-21.28	-22.24	-23.27	-24.91	-26.86	-28.89	-30.98
		$Mz_{máx}$	12.12	17.10	22.07	27.59	33.35	39.11	44.87

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N70/N217	Aço laminado	$N_{mín}$	1149.634	1149.715	1149.797	1149.879	1149.961	1150.043	1150.125
		$N_{máx}$	2191.746	2191.852	2191.959	2192.065	2192.172	2192.278	2192.385
		$Vy_{mín}$	-30.609	-30.609	-30.609	-30.609	-30.609	-30.609	-30.609
		$Vy_{máx}$	11.330	11.710	12.089	12.469	12.849	13.228	13.608
		$Vz_{mín}$	-55.435	-54.562	-53.690	-52.818	-51.945	-51.073	-50.201
		$Vz_{máx}$	-20.574	-19.903	-19.232	-18.561	-17.890	-17.219	-16.548
		$Mt_{mín}$	-7.22	-7.22	-7.22	-7.22	-7.22	-7.22	-7.22
		$Mt_{máx}$	3.24	3.24	3.24	3.24	3.24	3.24	3.24
		$My_{mín}$	183.17	186.98	190.66	194.21	197.64	200.94	204.12
		$My_{máx}$	357.72	363.86	369.83	375.64	381.28	386.76	392.08
		$Mz_{mín}$	-30.98	-33.15	-35.39	-37.70	-40.08	-42.53	-45.06
		$Mz_{máx}$	44.87	50.62	56.38	62.14	67.90	73.65	79.41

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N217/N11	Aço laminado	$N_{mín}$	1179.878	1179.932	1179.987
		$N_{máx}$	2248.273	2248.344	2248.415
		$Vy_{mín}$	-35.424	-35.424	-35.424
		$Vy_{máx}$	28.635	28.888	29.140
		$Vz_{mín}$	-772.988	-772.408	-771.828
		$Vz_{máx}$	-377.358	-376.912	-376.466

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mt_{mín}$	-84.44	-84.44	-84.44
		$Mt_{máx}$	39.34	39.34	39.34
		$My_{mín}$	137.77	184.91	232.00
		$My_{máx}$	284.01	365.13	450.77
		$Mz_{mín}$	-46.72	-50.32	-53.94
		$Mz_{máx}$	80.11	84.54	88.97

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
N7/N76	Aço laminado	$N_{mín}$	349.760	349.965	350.169	350.374	350.578	350.783	350.987
		$N_{máx}$	634.822	634.916	635.009	635.103	635.196	635.289	635.383
		$Vy_{mín}$	-51.993	-51.993	-51.993	-51.993	-51.993	-51.993	-51.993
		$Vy_{máx}$	58.134	57.672	57.210	56.748	56.285	55.824	55.362
		$Vz_{mín}$	46.812	47.632	48.452	49.272	50.092	50.911	51.731
		$Vz_{máx}$	93.503	94.569	95.634	96.700	97.766	98.831	99.897
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	-21.54	-43.30	-65.32	-87.59	-110.09	-132.84
		$My_{máx}$	0.00	-10.81	-21.81	-33.00	-44.38	-55.94	-67.69
		$Mz_{mín}$	0.00	-13.26	-26.41	-39.46	-52.40	-65.23	-77.96
		$Mz_{máx}$	0.00	11.91	23.81	35.71	47.62	59.52	71.43

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N76/N206	Aço laminado	$N_{mín}$	350.987	351.155	351.322	351.489	351.657	351.824	351.991
		$N_{máx}$	635.383	635.459	635.536	635.612	635.689	635.765	635.842
		$Vy_{mín}$	-51.993	-51.993	-51.993	-51.993	-51.993	-51.993	-51.993
		$Vy_{máx}$	55.362	54.984	54.606	54.228	53.850	53.472	53.094
		$Vz_{mín}$	51.731	52.401	53.072	53.742	54.413	55.083	55.754
		$Vz_{máx}$	99.897	100.769	101.640	102.512	103.384	104.255	105.127
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-132.84	-151.64	-170.59	-189.71	-209.00	-228.43	-248.04
		$My_{máx}$	-67.69	-77.44	-87.32	-97.32	-107.45	-117.70	-128.08
		$Mz_{mín}$	-77.96	-88.29	-98.55	-108.75	-118.87	-128.92	-138.90
		$Mz_{máx}$	71.43	81.17	90.90	100.64	110.38	120.12	129.86

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N206/N36	Aço laminado	$N_{mín}$	508.149	508.260	508.372
		$N_{máx}$	901.828	901.879	901.930
		$Vy_{mín}$	-52.319	-52.319	-52.319
		$Vy_{máx}$	50.317	50.065	49.813
		$Vz_{mín}$	-1747.004	-1746.422	-1745.841
		$Vz_{máx}$	-966.486	-966.039	-965.591
		$Mt_{mín}$	-1.39	-1.39	-1.39
		$Mt_{máx}$	0.18	0.18	0.18
		$My_{mín}$	-890.02	-671.68	-453.41
		$My_{máx}$	-479.37	-358.59	-237.86
		$Mz_{mín}$	-138.29	-144.56	-150.81
		$Mz_{máx}$	129.24	135.78	142.32

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N36/N207	Aço laminado	$N_{mín}$	516.783	516.823	516.862
		$N_{máx}$	939.503	939.554	939.605
		$Vy_{mín}$	-47.206	-47.458	-47.711
		$Vy_{máx}$	50.803	50.803	50.803
		$Vz_{mín}$	-1362.494	-1361.912	-1361.330
		$Vz_{máx}$	-735.082	-734.634	-734.187
		$Mt_{mín}$	-1.51	-1.51	-1.51
		$Mt_{máx}$	0.19	0.19	0.19

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$My_{mín}$	-463.50	-293.23	-123.02
		$My_{máx}$	-243.89	-152.04	-60.24
		$Mz_{mín}$	-148.26	-142.35	-136.40
		$Mz_{máx}$	139.61	133.26	126.91

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N207/N75	Aço laminado	$N_{mín}$	695.998	696.057	696.116	696.174	696.233	696.292	696.351
		$N_{máx}$	1270.452	1270.529	1270.605	1270.682	1270.758	1270.834	1270.911
		$Vy_{mín}$	-51.244	-51.622	-52.000	-52.378	-52.756	-53.134	-53.512
		$Vy_{máx}$	50.489	50.489	50.489	50.489	50.489	50.489	50.489
		$Vz_{mín}$	-255.786	-254.914	-254.042	-253.171	-252.299	-251.427	-250.555
		$Vz_{máx}$	-135.793	-135.122	-134.452	-133.781	-133.110	-132.440	-131.769
		$Mt_{mín}$	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52
		$Mt_{máx}$	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		$My_{mín}$	-433.74	-385.91	-338.26	-292.16	-247.75	-203.52	-159.43
		$My_{máx}$	-228.90	-203.53	-178.29	-153.17	-128.17	-103.31	-78.56
		$Mz_{mín}$	-136.27	-126.64	-116.94	-107.16	-97.31	-87.41	-77.43
		$Mz_{máx}$	126.69	117.23	107.78	98.32	88.86	79.42	69.97

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N75/N208	Aço laminado	$N_{mín}$	696.351	696.410	696.468	696.527	696.586	696.645	696.704
		$N_{máx}$	1270.911	1270.987	1271.064	1271.140	1271.217	1271.293	1271.370
		$Vy_{mín}$	-53.512	-53.890	-54.268	-54.646	-55.024	-55.401	-55.779
		$Vy_{máx}$	50.489	50.489	50.489	50.489	50.489	50.489	50.489
		$Vz_{mín}$	-250.555	-249.684	-248.812	-247.940	-247.068	-246.197	-245.325
		$Vz_{máx}$	-131.769	-131.099	-130.428	-129.758	-129.087	-128.417	-127.746
		$Mt_{mín}$	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52
		$Mt_{máx}$	0.48	0.48	0.48	0.48	0.48	0.48	0.48
		$My_{mín}$	-159.43	-115.51	-71.77	-28.17	10.04	42.38	67.23
		$My_{máx}$	-78.56	-53.94	-21.76	12.25	51.35	92.56	133.64

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Mz_{mín}$	-77.43	-67.38	-57.27	-47.07	-36.81	-26.48	-16.08
		$Mz_{máx}$	69.97	60.52	51.08	41.63	32.18	22.74	13.29

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N208/N8	Aço laminado	$N_{mín}$	785.787	785.826	785.865
		$N_{máx}$	1435.900	1435.951	1436.002
		$Vy_{mín}$	-60.412	-60.664	-60.916
		$Vy_{máx}$	51.395	51.395	51.395
		$Vz_{mín}$	-1574.720	-1574.138	-1573.556
		$Vz_{máx}$	-844.089	-843.641	-843.194
		$Mt_{mín}$	-6.27	-6.27	-6.27
		$Mt_{máx}$	7.19	7.19	7.19
		$My_{mín}$	-203.05	-13.66	111.13
		$My_{máx}$	-99.78	33.29	214.96
		$Mz_{mín}$	-15.77	-8.21	-2.63
		$Mz_{máx}$	12.97	6.55	0.14

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N8/N209	Aço laminado	$N_{mín}$	771.546	771.586	771.625
		$N_{máx}$	1483.662	1483.713	1483.764
		$Vy_{mín}$	-3.169	-3.169	-3.169
		$Vy_{máx}$	3.787	3.534	3.282
		$Vz_{mín}$	-1145.457	-1144.875	-1144.293
		$Vz_{máx}$	-615.091	-614.644	-614.196
		$Mt_{mín}$	-7.31	-7.31	-7.31
		$Mt_{máx}$	6.52	6.52	6.52
		$My_{mín}$	104.82	184.63	261.43
		$My_{máx}$	202.94	344.00	484.98
		$Mz_{mín}$	-3.12	-3.06	-3.01

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mz_{máx}$	2.85	2.39	1.97

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N209/N74	Aço laminado	$N_{mín}$	946.889	946.948	947.007	947.065	947.124	947.183	947.242
		$N_{máx}$	1804.399	1804.476	1804.552	1804.628	1804.705	1804.781	1804.858
		$Vy_{mín}$	-3.231	-3.231	-3.231	-3.246	-3.624	-4.002	-4.380
		$Vy_{máx}$	1.184	1.184	1.184	1.184	1.184	1.184	1.184
		$Vz_{mín}$	-88.032	-87.160	-86.289	-85.417	-84.545	-83.673	-82.802
		$Vz_{máx}$	-44.438	-43.767	-43.097	-42.426	-41.756	-41.085	-40.415
		$Mt_{mín}$	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
		$Mt_{máx}$	0.37	0.37	0.37	0.37	0.37	0.37	0.37
		$My_{mín}$	74.52	83.48	92.31	101.02	109.61	118.07	126.41
		$My_{máx}$	152.06	168.46	184.70	200.78	216.70	232.45	248.04
		$Mz_{mín}$	-1.79	-1.75	-1.84	-1.98	-2.20	-2.42	-2.64
		$Mz_{máx}$	0.66	0.96	1.33	1.82	2.46	3.17	3.96

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N74/N210	Aço laminado	$N_{mín}$	947.242	947.301	947.359	947.418	947.477	947.536	947.595
		$N_{máx}$	1804.858	1804.934	1805.011	1805.087	1805.164	1805.240	1805.316
		$Vy_{mín}$	-4.380	-4.758	-5.136	-5.514	-5.892	-6.269	-6.647
		$Vy_{máx}$	1.184	1.184	1.184	1.184	1.184	1.184	1.184
		$Vz_{mín}$	-82.802	-81.930	-81.058	-80.186	-79.314	-78.443	-77.571
		$Vz_{máx}$	-40.415	-39.744	-39.074	-38.403	-37.732	-37.062	-36.391
		$Mt_{mín}$	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
		$Mt_{máx}$	0.37	0.37	0.37	0.37	0.37	0.37	0.37
		$My_{mín}$	126.41	134.63	142.67	150.18	157.32	164.32	171.20
		$My_{máx}$	248.04	263.47	278.73	293.84	308.78	323.54	338.16
		$Mz_{mín}$	-2.64	-2.87	-3.09	-3.31	-3.53	-3.75	-3.97
		$Mz_{máx}$	3.96	4.82	5.74	6.74	7.81	8.95	10.16

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N210/N37	Aço laminado	$N_{mín}$	1019.565	1019.605	1019.644
		$N_{máx}$	1937.268	1937.319	1937.370
		$Vy_{mín}$	-10.971	-11.223	-11.476
		$Vy_{máx}$	1.730	1.730	1.730
		$Vz_{mín}$	-1150.474	-1149.892	-1149.311
		$Vz_{máx}$	-610.774	-610.326	-609.879
		$Mt_{mín}$	-3.30	-3.30	-3.30
		$Mt_{máx}$	5.07	5.07	5.07
		$My_{mín}$	23.71	108.98	191.33
		$My_{máx}$	97.46	240.38	383.23
		$Mz_{mín}$	-4.17	-4.39	-4.60
		$Mz_{máx}$	10.39	11.77	13.19

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N37/N211	Aço laminado	$N_{mín}$	1010.746	1010.785	1010.824
		$N_{máx}$	1984.357	1984.408	1984.459
		$Vy_{mín}$	-10.146	-10.399	-10.651
		$Vy_{máx}$	30.703	30.703	30.703
		$Vz_{mín}$	-764.922	-764.340	-763.758
		$Vz_{máx}$	-379.588	-379.141	-378.693
		$Mt_{mín}$	-2.03	-2.03	-2.03
		$Mt_{máx}$	2.32	2.32	2.32
		$My_{mín}$	185.08	233.87	281.23
		$My_{máx}$	369.68	449.17	528.58
		$Mz_{mín}$	-7.08	-10.52	-13.96
		$Mz_{máx}$	15.34	16.23	17.15

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N211/N73	Aço laminado	$N_{mín}$	1119.846	1119.905	1119.964	1120.023	1120.082	1120.140	1120.199

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$N_{máx}$	2174.109	2174.185	2174.261	2174.338	2174.414	2174.491	2174.567
		$Vy_{mín}$	-15.185	-15.563	-15.940	-16.318	-16.696	-17.074	-17.452
		$Vy_{máx}$	31.372	31.372	31.372	31.372	31.372	31.372	31.372
		$Vz_{mín}$	-54.170	-53.298	-52.427	-51.555	-50.683	-49.812	-48.940
		$Vz_{máx}$	-22.841	-22.180	-21.519	-20.858	-20.197	-19.536	-18.875
		$Mt_{mín}$	-2.75	-2.75	-2.75	-2.75	-2.75	-2.75	-2.75
		$Mt_{máx}$	5.82	5.82	5.82	5.82	5.82	5.82	5.82
		$My_{mín}$	155.60	159.82	163.91	167.88	171.72	175.44	179.04
		$My_{máx}$	316.68	322.80	328.74	334.53	340.16	345.62	350.91
		$Mz_{mín}$	-12.85	-18.27	-24.07	-29.95	-35.83	-41.70	-47.58
		$Mz_{máx}$	15.66	18.08	20.96	23.98	27.07	30.23	33.47

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N73/N212	Aço laminado	$N_{mín}$	1120.199	1120.258	1120.317	1120.376	1120.434	1120.493	1120.552
		$N_{máx}$	2174.567	2174.644	2174.720	2174.797	2174.873	2174.949	2175.026
		$Vy_{mín}$	-17.452	-17.830	-18.208	-18.586	-18.964	-19.342	-19.720
		$Vy_{máx}$	31.372	31.372	31.372	31.372	31.372	31.372	31.372
		$Vz_{mín}$	-48.940	-48.068	-47.197	-46.325	-45.453	-44.581	-43.710
		$Vz_{máx}$	-18.875	-18.214	-17.553	-16.892	-16.231	-15.570	-14.909
		$Mt_{mín}$	-2.75	-2.75	-2.75	-2.75	-2.75	-2.75	-2.75
		$Mt_{máx}$	5.82	5.82	5.82	5.82	5.82	5.82	5.82
		$My_{mín}$	179.04	182.51	185.86	189.09	192.19	195.17	198.02
		$My_{máx}$	350.91	356.05	361.02	365.82	370.47	374.95	379.27
		$Mz_{mín}$	-47.58	-53.45	-59.33	-65.20	-71.08	-76.95	-82.83
		$Mz_{máx}$	33.47	36.77	40.15	43.59	47.11	50.70	54.35

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N212/N9	Aço laminado	$N_{mín}$	1160.491	1160.530	1160.569
		$N_{máx}$	2252.599	2252.650	2252.701
		$Vy_{mín}$	-32.511	-32.764	-33.016

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vy_{máx}$	35.529	35.529	35.529
		$Vz_{mín}$	-767.696	-767.114	-766.532
		$Vz_{máx}$	-371.766	-371.319	-370.871
		$Mt_{mín}$	-33.83	-33.83	-33.83
		$Mt_{máx}$	68.34	68.34	68.34
		$My_{mín}$	112.36	166.17	219.93
		$My_{máx}$	264.05	344.58	425.05
		$Mz_{mín}$	-84.24	-88.68	-93.12
		$Mz_{máx}$	57.45	61.53	65.64

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.229 m	0.458 m	0.687 m	0.916 m	1.145 m	1.374 m
N1/N59	Aço laminado	$N_{mín}$	358.580	358.652	358.724	358.796	358.868	358.940	359.012
		$N_{máx}$	654.002	654.096	654.189	654.283	654.376	654.469	654.563
		$Vy_{mín}$	-54.506	-54.044	-53.582	-53.120	-52.658	-52.196	-51.734
		$Vy_{máx}$	55.613	55.613	55.613	55.613	55.613	55.613	55.613
		$Vz_{mín}$	60.438	61.258	62.078	62.898	63.717	64.537	65.357
		$Vz_{máx}$	117.613	118.679	119.744	120.810	121.876	122.941	124.007
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	-27.06	-54.34	-81.88	-109.67	-137.69	-165.97
		$My_{máx}$	0.00	-13.93	-28.05	-42.36	-56.86	-71.53	-86.41
		$Mz_{mín}$	0.00	-12.74	-25.46	-38.20	-50.94	-63.66	-76.40
		$Mz_{máx}$	0.00	12.43	24.75	36.96	49.08	61.07	72.98

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N59/N188	Aço laminado	$N_{mín}$	359.012	359.070	359.129	359.188	359.247	359.306	359.364
		$N_{máx}$	654.563	654.639	654.716	654.792	654.869	654.945	655.022
		$Vy_{mín}$	-51.734	-51.356	-50.978	-50.600	-50.222	-49.844	-49.466
		$Vy_{máx}$	55.613	55.613	55.613	55.613	55.613	55.613	55.613

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Vz_{mín}$	65.357	66.027	66.698	67.368	68.039	68.709	69.380
		$Vz_{máx}$	124.007	124.878	125.750	126.622	127.494	128.365	129.237
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-165.97	-189.28	-212.74	-236.38	-260.18	-284.13	-308.26
		$My_{máx}$	-86.41	-98.71	-111.14	-123.70	-136.38	-149.18	-162.11
		$Mz_{mín}$	-76.40	-86.82	-97.23	-107.65	-118.07	-128.48	-138.90
		$Mz_{máx}$	72.98	82.63	92.21	101.73	111.17	120.54	129.84

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N188/N24	Aço laminado	$N_{mín}$	513.318	513.357	513.396
		$N_{máx}$	935.517	935.568	935.619
		$Vy_{mín}$	-46.515	-46.262	-46.010
		$Vy_{máx}$	56.209	56.209	56.209
		$Vz_{mín}$	-1806.258	-1805.676	-1805.094
		$Vz_{máx}$	-996.027	-995.579	-995.132
		$Mt_{mín}$	0.08	0.08	0.08
		$Mt_{máx}$	1.46	1.46	1.46
		$My_{mín}$	-990.87	-765.12	-539.45
		$My_{máx}$	-535.86	-411.38	-286.97
		$Mz_{mín}$	-138.17	-145.20	-152.22
		$Mz_{máx}$	129.37	135.17	140.93

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N24/N189	Aço laminado	$N_{mín}$	550.609	550.576	550.543
		$N_{máx}$	972.523	972.574	972.625
		$Vy_{mín}$	-53.644	-53.644	-53.644
		$Vy_{máx}$	44.034	44.286	44.538
		$Vz_{mín}$	-1421.905	-1421.323	-1420.741

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vz_{máx}$	-770.070	-769.623	-769.175
		$Mt_{mín}$	0.09	0.09	0.09
		$Mt_{máx}$	1.59	1.59	1.59
		$My_{mín}$	-549.53	-371.83	-194.20
		$My_{máx}$	-292.92	-196.69	-100.52
		$Mz_{mín}$	-149.34	-142.64	-135.93
		$Mz_{máx}$	138.57	133.05	127.50

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N189/N60	Aço laminado	$N_{mín}$	718.625	718.575	718.525	718.476	718.426	718.376	718.326
		$N_{máx}$	1264.981	1265.058	1265.134	1265.211	1265.287	1265.364	1265.440
		$Vy_{mín}$	-53.482	-53.482	-53.482	-53.482	-53.482	-53.482	-53.482
		$Vy_{máx}$	48.208	48.586	48.963	49.341	49.719	50.097	50.475
		$Vz_{mín}$	-252.172	-251.300	-250.429	-249.557	-248.685	-247.814	-246.942
		$Vz_{máx}$	-133.505	-132.834	-132.164	-131.493	-130.823	-130.152	-129.482
		$Mt_{mín}$	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37
		$Mt_{máx}$	0.57	0.57	0.57	0.57	0.57	0.57	0.57
		$My_{mín}$	-399.33	-352.17	-305.20	-260.57	-216.79	-173.21	-129.75
		$My_{máx}$	-212.12	-187.17	-162.37	-137.67	-113.10	-88.67	-64.35
		$Mz_{mín}$	-135.71	-125.69	-115.67	-105.65	-95.64	-85.62	-75.60
		$Mz_{máx}$	127.44	118.37	109.24	100.03	90.75	81.41	71.99

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N60/N190	Aço laminado	$N_{mín}$	718.326	718.277	718.227	718.177	718.128	718.078	718.028
		$N_{máx}$	1265.440	1265.516	1265.593	1265.669	1265.746	1265.822	1265.899
		$Vy_{mín}$	-53.482	-53.482	-53.482	-53.482	-53.482	-53.482	-53.482
		$Vy_{máx}$	50.475	50.853	51.231	51.609	51.987	52.365	52.743
		$Vz_{mín}$	-246.942	-246.070	-245.199	-244.327	-243.455	-242.584	-241.712
		$Vz_{máx}$	-129.482	-128.811	-128.141	-127.470	-126.799	-126.129	-125.458
		$Mt_{mín}$	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Mt_{máx}$	0.57	0.57	0.57	0.57	0.57	0.57	0.57
		$My_{mín}$	-129.75	-86.47	-43.37	-2.87	31.65	55.33	78.90
		$My_{máx}$	-64.35	-33.34	0.25	36.20	76.98	117.57	158.02
		$Mz_{mín}$	-75.60	-65.58	-55.57	-45.55	-35.53	-25.52	-15.50
		$Mz_{máx}$	71.99	62.50	52.94	43.31	33.60	23.84	13.99

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N190/N2	Aço laminado	$N_{mín}$	817.089	817.055	817.022
		$N_{máx}$	1438.339	1438.390	1438.441
		$Vy_{mín}$	-54.253	-54.253	-54.253
		$Vy_{máx}$	57.114	57.366	57.618
		$Vz_{mín}$	-1610.287	-1609.705	-1609.123
		$Vz_{máx}$	-866.501	-866.053	-865.606
		$Mt_{mín}$	-5.78	-5.78	-5.78
		$Mt_{máx}$	6.04	6.04	6.04
		$My_{mín}$	-193.47	-1.51	118.31
		$My_{máx}$	-98.21	45.87	233.72
		$Mz_{mín}$	-15.20	-8.42	-1.69
		$Mz_{máx}$	13.76	6.60	0.62

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N2/N191	Aço laminado	$N_{mín}$	782.671	782.710	782.749
		$N_{máx}$	1480.014	1480.065	1480.116
		$Vy_{mín}$	-8.451	-8.451	-8.451
		$Vy_{máx}$	7.277	7.529	7.781
		$Vz_{mín}$	-1180.916	-1180.334	-1179.752
		$Vz_{máx}$	-635.059	-634.611	-634.164
		$Mt_{mín}$	-6.13	-6.13	-6.13
		$Mt_{máx}$	6.34	6.34	6.34

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$My_{mín}$	112.02	198.63	280.39
		$My_{máx}$	221.70	367.18	512.60
		$Mz_{mín}$	-5.22	-4.29	-3.37
		$Mz_{máx}$	3.12	2.31	1.49

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N191/N61	Aço laminado	$N_{mín}$	964.946	965.005	965.063	965.122	965.181	965.240	965.298
		$N_{máx}$	1811.503	1811.579	1811.656	1811.732	1811.809	1811.885	1811.961
		$Vy_{mín}$	-9.350	-9.350	-9.350	-9.350	-9.350	-9.350	-9.350
		$Vy_{máx}$	12.326	12.704	13.082	13.460	13.838	14.216	14.594
		$Vz_{mín}$	-84.741	-83.869	-82.998	-82.126	-81.254	-80.382	-79.511
		$Vz_{máx}$	-40.084	-39.413	-38.743	-38.072	-37.401	-36.731	-36.060
		$Mt_{mín}$	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
		$Mt_{máx}$	0.14	0.14	0.14	0.14	0.14	0.14	0.14
		$My_{mín}$	85.11	93.86	102.47	110.96	119.33	127.56	135.67
		$My_{máx}$	170.70	186.49	202.11	217.58	232.88	248.01	262.99
		$Mz_{mín}$	-4.67	-3.12	-2.77	-4.87	-7.43	-10.05	-12.75
		$Mz_{máx}$	2.63	0.49	-0.91	0.84	2.60	4.35	6.10

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N61/N192	Aço laminado	$N_{mín}$	965.298	965.357	965.416	965.475	965.534	965.592	965.651
		$N_{máx}$	1811.961	1812.038	1812.114	1812.191	1812.267	1812.344	1812.420
		$Vy_{mín}$	-9.350	-9.350	-9.350	-9.350	-9.350	-9.350	-9.350
		$Vy_{máx}$	14.594	14.972	15.350	15.728	16.106	16.483	16.861
		$Vz_{mín}$	-79.511	-78.639	-77.767	-76.895	-76.024	-75.152	-74.280
		$Vz_{máx}$	-36.060	-35.390	-34.719	-34.049	-33.378	-32.708	-32.037
		$Mt_{mín}$	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
		$Mt_{máx}$	0.14	0.14	0.14	0.14	0.14	0.14	0.14
		$My_{mín}$	135.67	142.59	149.15	155.60	161.91	168.10	174.16
		$My_{máx}$	262.99	277.80	292.45	306.93	321.26	335.41	349.40

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Mz_{mín}$	-12.75	-15.52	-18.36	-21.27	-24.25	-27.30	-30.43
		$Mz_{máx}$	6.10	7.85	9.60	11.35	13.10	14.85	16.61

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N192/N25	Aço laminado	$N_{mín}$	1039.104	1039.143	1039.183
		$N_{máx}$	1945.995	1946.046	1946.097
		$Vy_{mín}$	-9.922	-9.922	-9.922
		$Vy_{máx}$	21.185	21.438	21.690
		$Vz_{mín}$	-1158.340	-1157.758	-1157.176
		$Vz_{máx}$	-616.116	-615.668	-615.221
		$Mt_{mín}$	-5.12	-5.12	-5.12
		$Mt_{máx}$	3.58	3.58	3.58
		$My_{mín}$	30.36	115.45	192.38
		$My_{máx}$	105.20	249.05	392.83
		$Mz_{mín}$	-30.66	-33.32	-36.01
		$Mz_{máx}$	16.82	18.06	19.30

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N25/N193	Aço laminado	$N_{mín}$	1038.713	1038.752	1038.792
		$N_{máx}$	2002.451	2002.502	2002.553
		$Vy_{mín}$	-33.278	-33.026	-32.774
		$Vy_{máx}$	-5.054	-5.054	-5.054
		$Vz_{mín}$	-774.458	-773.876	-773.294
		$Vz_{máx}$	-385.623	-385.176	-384.728
		$Mt_{mín}$	-2.00	-2.00	-2.00
		$Mt_{máx}$	1.30	1.30	1.30
		$My_{mín}$	190.59	238.76	286.88
		$My_{máx}$	378.94	459.52	540.02
		$Mz_{mín}$	-33.36	-29.22	-25.11

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mz_{máx}$	18.12	18.75	19.38

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N193/N62	Aço laminado	$N_{mín}$	1151.414	1151.473	1151.532	1151.591	1151.649	1151.708	1151.767
		$N_{máx}$	2194.021	2194.098	2194.174	2194.250	2194.327	2194.403	2194.480
		$Vy_{mín}$	-28.789	-28.789	-28.789	-28.789	-28.789	-28.789	-28.789
		$Vy_{máx}$	-5.746	-5.746	-5.746	-5.746	-5.746	-5.746	-5.746
		$Vz_{mín}$	-58.957	-58.085	-57.214	-56.342	-55.470	-54.598	-53.726
		$Vz_{máx}$	-23.704	-23.033	-22.363	-21.692	-21.021	-20.351	-19.680
		$Mt_{mín}$	-7.17	-7.17	-7.17	-7.17	-7.17	-7.17	-7.17
		$Mt_{máx}$	3.17	3.17	3.17	3.17	3.17	3.17	3.17
		$My_{mín}$	163.79	168.17	172.42	176.54	180.54	184.42	188.16
		$My_{máx}$	325.65	332.39	338.96	345.37	351.61	357.69	363.61
		$Mz_{mín}$	-23.49	-18.46	-14.46	-10.57	-6.76	-3.01	0.67
		$Mz_{máx}$	18.27	19.56	21.82	24.11	26.41	28.70	31.00

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N62/N194	Aço laminado	$N_{mín}$	1151.767	1151.826	1151.885	1151.943	1152.002	1152.061	1152.120
		$N_{máx}$	2194.480	2194.556	2194.633	2194.709	2194.786	2194.862	2194.938
		$Vy_{mín}$	-28.789	-28.789	-28.789	-28.789	-28.789	-28.789	-28.789
		$Vy_{máx}$	-5.746	-5.746	-5.746	-5.746	-5.746	-5.746	-5.746
		$Vz_{mín}$	-53.726	-52.855	-51.983	-51.111	-50.239	-49.368	-48.496
		$Vz_{máx}$	-19.680	-19.010	-18.339	-17.669	-16.998	-16.328	-15.657
		$Mt_{mín}$	-7.17	-7.17	-7.17	-7.17	-7.17	-7.17	-7.17
		$Mt_{máx}$	3.17	3.17	3.17	3.17	3.17	3.17	3.17
		$My_{mín}$	188.16	191.79	195.29	198.66	201.90	205.02	208.02
		$My_{máx}$	363.61	369.36	374.95	380.38	385.65	390.75	395.69
		$Mz_{mín}$	0.67	4.27	7.80	11.27	14.66	17.98	21.23
		$Mz_{máx}$	31.00	33.67	39.06	44.45	49.85	55.24	60.63

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N194/N3	Aço laminado	$N_{mín}$	1193.857	1193.896	1193.935
		$N_{máx}$	2276.291	2276.342	2276.393
		$Vy_{mín}$	-23.494	-23.494	-23.494
		$Vy_{máx}$	-2.424	-2.172	-1.920
		$Vz_{mín}$	-777.940	-777.358	-776.777
		$Vz_{máx}$	-377.573	-377.126	-376.678
		$Mt_{mín}$	-83.59	-83.59	-83.59
		$Mt_{máx}$	38.14	38.14	38.14
		$My_{mín}$	138.01	185.18	232.29
		$My_{máx}$	280.97	362.64	448.25
		$Mz_{mín}$	17.49	17.77	18.03
		$Mz_{máx}$	58.82	61.76	64.70

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.230 m	0.460 m	0.689 m	0.919 m	1.149 m	1.379 m
N6/N66	Aço laminado	$N_{mín}$	365.565	365.798	366.031	366.263	366.496	366.729	366.961
		$N_{máx}$	652.792	652.922	653.052	653.182	653.312	653.442	653.573
		$Vy_{mín}$	-48.408	-48.408	-48.408	-48.408	-48.408	-48.408	-48.408
		$Vy_{máx}$	54.493	54.029	53.566	53.102	52.638	52.175	51.711
		$Vz_{mín}$	45.456	46.276	47.096	47.916	48.736	49.555	50.375
		$Vz_{máx}$	91.650	92.716	93.781	94.847	95.913	96.978	98.044
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	-21.19	-42.60	-64.28	-86.20	-108.35	-130.76
		$My_{máx}$	0.00	-10.54	-21.26	-32.18	-43.29	-54.58	-66.06
		$Mz_{mín}$	0.00	-12.47	-24.83	-37.08	-49.24	-61.27	-73.21
		$Mz_{máx}$	0.00	11.13	22.24	33.37	44.49	55.61	66.74

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N66/N205	Aço laminado	$N_{mín}$	366.961	367.152	367.342	367.533	367.723	367.914	368.104

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$N_{máx}$	653.573	653.679	653.785	653.892	653.998	654.105	654.211
		$Vy_{mín}$	-48.408	-48.408	-48.408	-48.408	-48.408	-48.408	-48.408
		$Vy_{máx}$	51.711	51.331	50.952	50.572	50.192	49.813	49.433
		$Vz_{mín}$	50.375	51.046	51.717	52.388	53.059	53.730	54.401
		$Vz_{máx}$	98.044	98.917	99.789	100.661	101.534	102.406	103.278
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	-130.76	-149.29	-167.97	-186.83	-205.85	-225.03	-244.38
		$My_{máx}$	-66.06	-75.60	-85.26	-95.06	-104.98	-115.02	-125.19
		$Mz_{mín}$	-73.21	-82.90	-92.52	-102.07	-111.55	-120.95	-130.29
		$Mz_{máx}$	66.74	75.85	84.95	94.06	103.17	112.27	121.38

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N205/N29	Aço laminado	$N_{mín}$	487.975	488.029	488.083
		$N_{máx}$	855.085	855.156	855.227
		$Vy_{mín}$	-48.708	-48.708	-48.708
		$Vy_{máx}$	46.599	46.346	46.094
		$Vz_{mín}$	-1782.756	-1782.177	-1781.597
		$Vz_{máx}$	-962.529	-962.083	-961.637
		$Mt_{mín}$	-1.12	-1.12	-1.12
		$Mt_{máx}$	0.19	0.19	0.19
		$My_{mín}$	-873.19	-655.39	-437.66
		$My_{máx}$	-468.28	-347.99	-227.76
		$Mz_{mín}$	-129.71	-135.52	-141.30
		$Mz_{máx}$	120.86	126.95	133.04

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N29/N204	Aço laminado	$N_{mín}$	488.746	488.800	488.854
		$N_{máx}$	920.664	920.735	920.806

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vy_{mín}$	-42.796	-43.048	-43.300
		$Vy_{máx}$	46.530	46.530	46.530
		$Vz_{mín}$	-1358.185	-1357.605	-1357.025
		$Vz_{máx}$	-730.202	-729.756	-729.310
		$Mt_{mín}$	-1.33	-1.33	-1.33
		$Mt_{máx}$	0.20	0.20	0.20
		$My_{mín}$	-451.70	-281.96	-112.30
		$My_{máx}$	-236.17	-144.92	-46.76
		$Mz_{mín}$	-138.07	-132.70	-127.30
		$Mz_{máx}$	129.58	123.76	117.95

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N204/N65	Aço laminado	$N_{mín}$	687.963	688.045	688.127	688.209	688.290	688.372	688.454
		$N_{máx}$	1273.730	1273.837	1273.943	1274.050	1274.156	1274.262	1274.369
		$Vy_{mín}$	-46.835	-47.215	-47.594	-47.974	-48.354	-48.733	-49.113
		$Vy_{máx}$	46.256	46.256	46.256	46.256	46.256	46.256	46.256
		$Vz_{mín}$	-254.652	-253.780	-252.908	-252.035	-251.163	-250.291	-249.418
		$Vz_{máx}$	-134.698	-134.027	-133.356	-132.685	-132.014	-131.343	-130.672
		$Mt_{mín}$	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44
		$Mt_{máx}$	0.38	0.38	0.38	0.38	0.38	0.38	0.38
		$My_{mín}$	-432.43	-384.60	-336.96	-290.83	-246.44	-202.23	-158.17
		$My_{máx}$	-227.02	-201.74	-176.60	-151.58	-126.67	-101.91	-77.26
		$Mz_{mín}$	-127.18	-118.33	-109.42	-100.43	-91.37	-82.25	-73.05
		$Mz_{máx}$	117.71	109.01	100.31	91.61	82.91	74.22	65.53

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N65/N203	Aço laminado	$N_{mín}$	688.454	688.536	688.618	688.700	688.782	688.864	688.946
		$N_{máx}$	1274.369	1274.475	1274.582	1274.688	1274.795	1274.901	1275.008
		$Vy_{mín}$	-49.113	-49.492	-49.872	-50.251	-50.631	-51.011	-51.390
		$Vy_{máx}$	46.256	46.256	46.256	46.256	46.256	46.256	46.256

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$Vz_{mín}$	-249.418	-248.545	-247.673	-246.801	-245.928	-245.056	-244.184
		$Vz_{máx}$	-130.672	-130.001	-129.330	-128.659	-127.987	-127.317	-126.645
		$Mt_{mín}$	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44
		$Mt_{máx}$	0.38	0.38	0.38	0.38	0.38	0.38	0.38
		$My_{mín}$	-158.17	-114.27	-70.55	-26.98	11.00	42.96	67.86
		$My_{máx}$	-77.26	-47.58	-12.96	21.57	61.39	103.12	144.71
		$Mz_{mín}$	-73.05	-63.79	-54.46	-45.05	-35.57	-26.02	-16.40
		$Mz_{máx}$	65.53	56.83	48.15	39.45	30.76	22.07	13.38

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N203/N5	Aço laminado	$N_{mín}$	754.780	754.835	754.889
		$N_{máx}$	1396.744	1396.815	1396.886
		$Vy_{mín}$	-55.908	-56.160	-56.412
		$Vy_{máx}$	47.126	47.126	47.126
		$Vz_{mín}$	-1573.061	-1572.482	-1571.902
		$Vz_{máx}$	-840.988	-840.542	-840.096
		$Mt_{mín}$	-5.89	-5.89	-5.89
		$Mt_{máx}$	6.50	6.50	6.50
		$My_{mín}$	-191.65	-4.12	117.18
		$My_{máx}$	-92.95	54.22	237.11
		$Mz_{mín}$	-16.28	-9.28	-2.98
		$Mz_{máx}$	13.25	7.37	1.49

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N5/N202	Aço laminado	$N_{mín}$	748.332	748.386	748.441
		$N_{máx}$	1457.462	1457.532	1457.603
		$Vy_{mín}$	-3.473	-3.473	-3.473
		$Vy_{máx}$	4.878	4.878	4.878
		$Vz_{mín}$	-1143.332	-1142.752	-1142.173
		$Vz_{máx}$	-612.070	-611.624	-611.178

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mt_{mín}$	-6.86	-6.86	-6.86
		$Mt_{máx}$	6.07	6.07	6.07
		$My_{mín}$	109.07	187.80	264.22
		$My_{máx}$	219.77	350.57	491.35
		$Mz_{mín}$	-2.74	-2.39	-2.86
		$Mz_{máx}$	1.10	1.26	1.44

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N202/N64	Aço laminado	$N_{mín}$	942.689	942.771	942.853	942.935	943.017	943.099	943.180
		$N_{máx}$	1814.144	1814.251	1814.357	1814.464	1814.570	1814.677	1814.783
		$Vy_{mín}$	-6.963	-7.342	-7.722	-8.102	-8.481	-8.861	-9.240
		$Vy_{máx}$	5.731	5.731	5.731	5.731	5.731	5.731	5.731
		$Vz_{mín}$	-88.275	-87.402	-86.530	-85.658	-84.785	-83.913	-83.041
		$Vz_{máx}$	-44.536	-43.865	-43.194	-42.523	-41.852	-41.181	-40.510
		$Mt_{mín}$	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
		$Mt_{máx}$	0.35	0.35	0.35	0.35	0.35	0.35	0.35
		$My_{mín}$	73.51	82.54	91.44	100.22	108.88	117.41	125.82
		$My_{máx}$	158.94	170.49	183.20	199.39	215.43	231.29	247.00
		$Mz_{mín}$	-2.11	-2.35	-3.29	-4.25	-5.31	-6.39	-7.47
		$Mz_{máx}$	0.05	1.25	2.52	3.90	5.44	7.07	8.77

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N64/N201	Aço laminado	$N_{mín}$	943.180	943.262	943.344	943.426	943.508	943.590	943.672
		$N_{máx}$	1814.783	1814.889	1814.996	1815.102	1815.209	1815.315	1815.422
		$Vy_{mín}$	-9.240	-9.620	-9.999	-10.379	-10.759	-11.138	-11.518
		$Vy_{máx}$	5.731	5.731	5.731	5.731	5.731	5.731	5.731
		$Vz_{mín}$	-83.041	-82.168	-81.296	-80.423	-79.551	-78.679	-77.806
		$Vz_{máx}$	-40.510	-39.838	-39.168	-38.496	-37.825	-37.154	-36.483
		$Mt_{mín}$	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
		$Mt_{máx}$	0.35	0.35	0.35	0.35	0.35	0.35	0.35

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$My_{mín}$	125.82	134.11	142.14	149.61	156.79	163.84	170.77
		$My_{máx}$	247.00	262.54	277.91	293.12	308.17	323.05	337.77
		$Mz_{mín}$	-7.47	-8.54	-9.62	-10.70	-11.78	-12.86	-13.94
		$Mz_{máx}$	8.77	10.55	12.39	14.31	16.30	18.35	20.49

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N201/N28	Aço laminado	$N_{mín}$	996.849	996.903	996.958
		$N_{máx}$	1912.841	1912.912	1912.982
		$Vy_{mín}$	-15.735	-15.987	-16.239
		$Vy_{máx}$	6.212	6.212	6.212
		$Vz_{mín}$	-1147.720	-1147.141	-1146.561
		$Vz_{máx}$	-607.421	-606.975	-606.529
		$Mt_{mín}$	-3.06	-3.06	-3.06
		$Mt_{máx}$	4.60	4.60	4.60
		$My_{mín}$	29.88	113.62	195.33
		$My_{máx}$	105.97	248.62	391.20
		$Mz_{mín}$	-14.01	-14.79	-15.57
		$Mz_{máx}$	20.57	22.56	24.57

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N28/N200	Aço laminado	$N_{mín}$	1002.488	1002.543	1002.597
		$N_{máx}$	1972.647	1972.718	1972.789
		$Vy_{mín}$	10.539	10.539	10.539
		$Vy_{máx}$	23.017	23.017	23.017
		$Vz_{mín}$	-761.887	-761.307	-760.727
		$Vz_{máx}$	-376.770	-376.324	-375.878
		$Mt_{mín}$	-1.90	-1.90	-1.90
		$Mt_{máx}$	2.24	2.24	2.24
		$My_{mín}$	187.53	235.10	282.11

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$My_{máx}$	372.52	451.70	530.82
		$Mz_{mín}$	-17.64	-19.08	-20.57
		$Mz_{máx}$	25.53	23.03	20.60

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N200/N63	Aço laminado	$N_{mín}$	1122.982	1123.064	1123.146	1123.227	1123.309	1123.391	1123.473
		$N_{máx}$	2182.731	2182.838	2182.944	2183.050	2183.157	2183.263	2183.370
		$Vy_{mín}$	9.804	9.424	9.045	8.665	8.286	7.906	7.527
		$Vy_{máx}$	22.862	22.862	22.862	22.862	22.862	22.862	22.862
		$Vz_{mín}$	-53.858	-52.986	-52.114	-51.241	-50.369	-49.497	-48.624
		$Vz_{máx}$	-22.993	-22.335	-21.678	-21.020	-20.362	-19.704	-19.046
		$Mt_{mín}$	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43
		$Mt_{máx}$	5.44	5.44	5.44	5.44	5.44	5.44	5.44
		$My_{mín}$	154.49	158.76	162.90	166.91	170.81	174.57	178.22
		$My_{máx}$	314.83	320.94	326.89	332.68	338.31	343.77	349.07
		$Mz_{mín}$	-19.43	-22.72	-26.01	-29.30	-32.59	-35.88	-39.17
		$Mz_{máx}$	19.06	17.25	15.52	13.85	12.26	10.73	9.28

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N63/N199	Aço laminado	$N_{mín}$	1123.473	1123.555	1123.637	1123.719	1123.801	1123.883	1123.964
		$N_{máx}$	2183.370	2183.476	2183.583	2183.689	2183.796	2183.902	2184.009
		$Vy_{mín}$	7.527	7.147	6.768	6.388	6.008	5.629	5.249
		$Vy_{máx}$	22.862	22.862	22.862	22.862	22.862	22.862	22.862
		$Vz_{mín}$	-48.624	-47.751	-46.879	-46.007	-45.134	-44.262	-43.390
		$Vz_{máx}$	-19.046	-18.388	-17.731	-17.073	-16.415	-15.757	-15.099
		$Mt_{mín}$	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43	-2.43
		$Mt_{máx}$	5.44	5.44	5.44	5.44	5.44	5.44	5.44
		$My_{mín}$	178.22	181.74	185.14	188.41	191.56	194.59	197.49
		$My_{máx}$	349.07	354.20	359.17	363.97	368.61	373.08	377.40
		$Mz_{mín}$	-39.17	-42.46	-45.75	-49.04	-52.33	-55.62	-58.91

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$Mz_{máx}$	9.28	7.90	6.59	5.35	4.19	3.09	2.07

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N199/N4	Aço laminado	$N_{mín}$	1152.256	1152.311	1152.365
		$N_{máx}$	2237.618	2237.689	2237.760
		$Vy_{mín}$	-7.164	-7.416	-7.668
		$Vy_{máx}$	21.258	21.258	21.258
		$Vz_{mín}$	-765.771	-765.191	-764.611
		$Vz_{máx}$	-367.291	-366.845	-366.399
		$Mt_{mín}$	-30.36	-30.36	-30.36
		$Mt_{máx}$	64.66	64.66	64.66
		$My_{mín}$	115.01	169.17	223.28
		$My_{máx}$	267.80	348.15	428.42
		$Mz_{mín}$	-59.45	-62.11	-64.77
		$Mz_{máx}$	3.34	4.25	5.20

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N43/N172	Aço laminado	$N_{mín}$	-1385.846	-1385.812	-1385.777
		$N_{máx}$	-762.306	-762.280	-762.254
		$Vy_{mín}$	-4.458	-4.307	-4.155
		$Vy_{máx}$	1.401	1.401	1.401
		$Vz_{mín}$	-1445.220	-1444.831	-1444.442
		$Vz_{máx}$	-783.667	-783.368	-783.069
		$Mt_{mín}$	-0.43	-0.43	-0.43
		$Mt_{máx}$	0.42	0.42	0.42
		$My_{mín}$	-18.79	92.97	190.87
		$My_{máx}$	4.97	170.16	349.74
		$Mz_{mín}$	-4.15	-3.60	-3.07
		$Mz_{máx}$	3.71	3.60	3.49

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Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N172/N14	Aço laminado	$N_{mín}$	-1557.532	-1557.481	-1557.430	-1557.379	-1557.328	-1557.277	-1557.226
		$N_{máx}$	-855.610	-855.570	-855.531	-855.492	-855.453	-855.413	-855.374
		$Vy_{mín}$	-1.276	-1.050	-0.823	-0.596	-0.369	-0.143	0.084
		$Vy_{máx}$	1.659	1.659	1.659	1.659	1.659	1.659	1.659
		$Vz_{mín}$	-68.048	-67.465	-66.882	-66.299	-65.717	-65.134	-64.551
		$Vz_{máx}$	-36.012	-35.563	-35.115	-34.667	-34.218	-33.770	-33.322
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	10.77	19.41	26.48	33.47	40.38	47.19	53.70
		$My_{máx}$	38.61	49.17	59.60	69.93	80.16	90.27	100.96
		$Mz_{mín}$	-3.10	-2.88	-2.70	-2.58	-2.53	-2.56	-2.63
		$Mz_{máx}$	3.46	3.15	2.83	2.53	2.26	2.03	1.79

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N14/N173	Aço laminado	$N_{mín}$	-1557.226	-1557.174	-1557.123	-1557.072	-1557.021	-1556.970	-1556.919
		$N_{máx}$	-855.374	-855.335	-855.295	-855.256	-855.217	-855.177	-855.138
		$Vy_{mín}$	0.084	0.311	0.538	0.765	0.805	0.805	0.805
		$Vy_{máx}$	1.659	1.659	1.659	1.659	1.659	1.659	1.848
		$Vz_{mín}$	-64.551	-63.968	-63.386	-62.803	-62.220	-61.637	-61.054
		$Vz_{máx}$	-33.322	-32.874	-32.425	-31.977	-31.529	-31.081	-30.632
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	53.70	59.90	66.01	72.04	77.99	83.85	89.63
		$My_{máx}$	100.96	113.00	124.92	136.74	148.45	160.05	171.54
		$Mz_{mín}$	-2.63	-2.74	-2.90	-3.09	-3.33	-3.62	-3.94
		$Mz_{máx}$	1.79	1.56	1.32	1.09	0.85	0.62	0.38

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N173/N44	Aço laminado	$N_{mín}$	-1887.602	-1887.568	-1887.534
		$N_{máx}$	-1036.794	-1036.768	-1036.741

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vy_{mín}$	0.815	0.815	0.815
		$Vy_{máx}$	4.734	4.886	5.037
		$Vz_{mín}$	-1151.567	-1151.178	-1150.789
		$Vz_{máx}$	-618.545	-618.246	-617.947
		$Mt_{mín}$	0.05	0.05	0.05
		$Mt_{máx}$	0.70	0.70	0.70
		$My_{mín}$	-180.79	-36.87	65.62
		$My_{máx}$	-88.95	-7.03	128.89
		$Mz_{mín}$	-3.92	-4.53	-5.15
		$Mz_{máx}$	0.43	0.16	-0.11

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N44/N174	Aço laminado	$N_{mín}$	-1870.999	-1870.965	-1870.931
		$N_{máx}$	-1022.247	-1022.221	-1022.194
		$Vy_{mín}$	-10.131	-9.980	-9.829
		$Vy_{máx}$	2.571	2.571	2.571
		$Vz_{mín}$	-1139.388	-1138.999	-1138.610
		$Vz_{máx}$	-609.113	-608.813	-608.514
		$Mt_{mín}$	-0.46	-0.46	-0.46
		$Mt_{máx}$	0.08	0.08	0.08
		$My_{mín}$	66.86	142.98	219.07
		$My_{máx}$	130.33	270.20	410.02
		$Mz_{mín}$	-5.41	-4.15	-2.92
		$Mz_{máx}$	-0.11	-0.43	-0.75

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N174/N26	Aço laminado	$N_{mín}$	-2003.820	-2003.769	-2003.718	-2003.667	-2003.616	-2003.565	-2003.513
		$N_{máx}$	-1095.120	-1095.080	-1095.041	-1095.002	-1094.963	-1094.923	-1094.884
		$Vy_{mín}$	-6.904	-6.677	-6.450	-6.223	-5.997	-5.770	-5.543
		$Vy_{máx}$	3.143	3.143	3.143	3.143	3.143	3.143	3.143

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Vz_{mín}$	-38.464	-37.881	-37.299	-36.716	-36.133	-35.550	-34.968
		$Vz_{máx}$	-18.420	-17.972	-17.524	-17.076	-16.627	-16.179	-15.731
		$Mt_{mín}$	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		$Mt_{máx}$	0.11	0.11	0.11	0.11	0.11	0.11	0.11
		$My_{mín}$	80.51	83.92	87.24	90.48	93.64	96.71	99.70
		$My_{máx}$	159.16	165.43	171.58	177.62	183.56	189.38	195.10
		$Mz_{mín}$	-2.93	-2.00	-2.43	-2.93	-3.43	-3.93	-4.43
		$Mz_{máx}$	-0.76	-1.08	0.06	1.16	2.21	3.22	4.19

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N26/N176	Aço laminado	$N_{mín}$	-2003.513	-2003.462	-2003.411	-2003.360	-2003.309	-2003.258	-2003.207
		$N_{máx}$	-1094.884	-1094.845	-1094.805	-1094.766	-1094.727	-1094.687	-1094.648
		$Vy_{mín}$	-5.543	-5.316	-5.090	-4.863	-4.636	-4.409	-4.183
		$Vy_{máx}$	3.143	3.143	3.143	3.143	3.143	3.143	3.143
		$Vz_{mín}$	-34.968	-34.385	-33.802	-33.219	-32.636	-32.054	-31.471
		$Vz_{máx}$	-15.731	-15.282	-14.834	-14.386	-13.937	-13.489	-13.041
		$Mt_{mín}$	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		$Mt_{máx}$	0.11	0.11	0.11	0.11	0.11	0.11	0.11
		$My_{mín}$	99.70	102.60	105.42	108.16	110.81	113.38	115.86
		$My_{máx}$	195.10	200.71	206.20	211.59	216.87	222.04	227.11
		$Mz_{mín}$	-4.43	-4.97	-5.52	-6.06	-6.65	-7.24	-7.83
		$Mz_{máx}$	4.19	5.17	6.10	6.99	7.88	8.72	9.53

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N176/N46	Aço laminado	$N_{mín}$	-2201.390	-2201.355	-2201.321
		$N_{máx}$	-1206.730	-1206.704	-1206.678
		$Vy_{mín}$	-1.860	-1.860	-1.860
		$Vy_{máx}$	3.834	3.834	3.834
		$Vz_{mín}$	-737.791	-737.402	-737.013
		$Vz_{máx}$	-367.899	-367.599	-367.300
		$Mt_{mín}$	-0.52	-0.52	-0.52

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mt_{máx}$	2.78	2.78	2.78
		$My_{mín}$	-12.66	49.14	95.07
		$My_{máx}$	33.21	110.87	189.05
		$Mz_{mín}$	-7.68	-8.15	-8.63
		$Mz_{máx}$	9.09	9.24	9.38

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N46/N175	Aço laminado	$N_{mín}$	-2189.511	-2189.477	-2189.443
		$N_{máx}$	-1189.899	-1189.873	-1189.846
		$Vy_{mín}$	-22.913	-22.913	-22.913
		$Vy_{máx}$	25.829	25.981	26.132
		$Vz_{mín}$	-725.323	-724.935	-724.546
		$Vz_{máx}$	-359.150	-358.851	-358.552
		$Mt_{mín}$	-2.55	-2.55	-2.55
		$Mt_{máx}$	4.81	4.81	4.81
		$My_{mín}$	96.48	141.36	186.19
		$My_{máx}$	190.16	267.28	357.87
		$Mz_{mín}$	-9.10	-6.26	-3.57
		$Mz_{máx}$	9.85	6.63	3.55

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N175/N15	Aço laminado	$N_{mín}$	-2272.412	-2272.360	-2272.309	-2272.258	-2272.207	-2272.156	-2272.105
		$N_{máx}$	-1231.055	-1231.016	-1230.977	-1230.938	-1230.898	-1230.859	-1230.820
		$Vy_{mín}$	-17.174	-17.174	-17.174	-17.174	-17.174	-17.174	-17.174
		$Vy_{máx}$	17.363	17.590	17.816	18.043	18.270	18.497	18.723
		$Vz_{mín}$	7.689	8.367	8.955	9.410	9.864	10.317	10.772
		$Vz_{máx}$	22.926	23.374	23.876	24.459	25.042	25.624	26.207
		$Mt_{mín}$	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
		$Mt_{máx}$	0.08	0.08	0.08	0.08	0.08	0.08	0.08
		$My_{mín}$	112.07	110.27	108.39	106.42	104.37	102.24	100.02

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$My_{máx}$	220.03	215.73	211.31	206.78	202.15	197.40	193.19
		$Mz_{mín}$	-3.52	-0.59	-3.60	-6.94	-10.31	-13.73	-17.19
		$Mz_{máx}$	3.40	0.21	3.33	6.52	9.72	12.91	16.10

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N15/N178	Aço laminado	$N_{mín}$	-2272.105	-2272.054	-2272.003	-2271.952	-2271.901	-2271.849	-2271.798
		$N_{máx}$	-1230.820	-1230.780	-1230.741	-1230.702	-1230.662	-1230.623	-1230.584
		$Vy_{mín}$	-17.174	-17.174	-17.174	-17.174	-17.174	-17.174	-17.174
		$Vy_{máx}$	18.723	18.950	19.177	19.404	19.630	19.857	20.084
		$Vz_{mín}$	10.772	11.226	11.679	12.134	12.588	13.041	13.496
		$Vz_{máx}$	26.207	26.790	27.373	27.955	28.538	29.121	29.704
		$Mt_{mín}$	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
		$Mt_{máx}$	0.08	0.08	0.08	0.08	0.08	0.08	0.08
		$My_{mín}$	100.02	97.72	95.33	92.86	90.31	87.67	84.94
		$My_{máx}$	193.19	190.10	186.90	183.59	180.17	176.64	173.01
		$Mz_{mín}$	-17.19	-20.69	-24.24	-27.82	-31.45	-35.14	-38.88
		$Mz_{máx}$	16.10	19.29	22.48	25.67	28.86	32.07	35.28

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N178/N49	Aço laminado	$N_{mín}$	-2310.256	-2310.222	-2310.188
		$N_{máx}$	-1249.461	-1249.435	-1249.409
		$Vy_{mín}$	-12.519	-12.519	-12.519
		$Vy_{máx}$	12.680	12.831	12.982
		$Vz_{mín}$	-80.459	-80.070	-79.681
		$Vz_{máx}$	56.990	57.289	57.589
		$Mt_{mín}$	-5.96	-5.96	-5.96
		$Mt_{máx}$	3.81	3.81	3.81
		$My_{mín}$	51.02	53.33	55.60
		$My_{máx}$	120.05	113.48	116.33
		$Mz_{mín}$	-37.99	-39.49	-41.00
		$Mz_{máx}$	34.74	36.20	37.67

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N40/N170	Aço laminado	$N_{mín}$	-826.310	-826.259	-826.207
		$N_{máx}$	-453.455	-453.416	-453.377
		$Vy_{mín}$	-6.380	-6.380	-6.380
		$Vy_{máx}$	-1.230	-1.230	-1.230
		$Vz_{mín}$	-2268.434	-2267.851	-2267.268
		$Vz_{máx}$	-1256.809	-1256.361	-1255.913
		$Mt_{mín}$	-4.21	-4.21	-4.21
		$Mt_{máx}$	5.28	5.28	5.28
		$My_{mín}$	-1076.25	-792.74	-509.29
		$My_{máx}$	-597.87	-440.80	-283.78
		$Mz_{mín}$	-14.57	-13.77	-12.97
		$Mz_{máx}$	6.89	7.10	7.29

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N170/N23	Aço laminado	$N_{mín}$	-1104.607	-1104.531	-1104.454	-1104.378	-1104.301	-1104.225	-1104.148
		$N_{máx}$	-605.718	-605.659	-605.600	-605.541	-605.482	-605.424	-605.365
		$Vy_{mín}$	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984
		$Vy_{máx}$	2.876	3.103	3.329	3.556	3.783	4.010	4.237
		$Vz_{mín}$	-307.872	-306.999	-306.126	-305.252	-304.379	-303.506	-302.633
		$Vz_{máx}$	-172.120	-171.448	-170.777	-170.105	-169.433	-168.762	-168.090
		$Mt_{mín}$	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
		$Mt_{máx}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$My_{mín}$	-976.69	-919.10	-861.71	-804.44	-747.34	-690.43	-633.66
		$My_{máx}$	-537.72	-505.54	-473.51	-441.58	-409.77	-378.11	-346.56
		$Mz_{mín}$	-13.91	-12.60	-11.30	-9.99	-8.68	-7.37	-6.06
		$Mz_{máx}$	8.00	7.44	6.83	6.19	5.50	4.77	4.00

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N23/N171	Aço laminado	$N_{mín}$	-1104.148	-1104.071	-1103.995	-1103.918	-1103.842	-1103.765	-1103.689
		$N_{máx}$	-605.365	-605.306	-605.247	-605.188	-605.129	-605.070	-605.011

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Vy_{mín}$	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984	-6.984
		$Vy_{máx}$	4.237	4.463	4.690	4.917	5.144	5.370	5.597
		$Vz_{mín}$	-302.633	-301.759	-300.886	-300.013	-299.140	-298.267	-297.393
		$Vz_{máx}$	-168.090	-167.418	-166.746	-166.075	-165.403	-164.731	-164.059
		$Mt_{mín}$	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
		$Mt_{máx}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$My_{mín}$	-633.66	-577.05	-520.63	-464.35	-408.23	-352.30	-297.10
		$My_{máx}$	-346.56	-315.14	-283.86	-252.68	-221.63	-190.73	-159.93
		$Mz_{mín}$	-6.06	-4.75	-3.45	-2.14	-0.85	-0.50	-1.53
		$Mz_{máx}$	4.00	3.18	2.33	1.43	0.50	0.48	1.79

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N171/N43	Aço laminado	$N_{mín}$	-1395.342	-1395.291	-1395.240
		$N_{máx}$	-763.382	-763.343	-763.304
		$Vy_{mín}$	-7.146	-7.146	-7.146
		$Vy_{máx}$	9.360	9.511	9.662
		$Vz_{mín}$	-1457.945	-1457.362	-1456.779
		$Vz_{máx}$	-793.563	-793.115	-792.667
		$Mt_{mín}$	-0.18	-0.18	-0.18
		$Mt_{máx}$	0.64	0.64	0.64
		$My_{mín}$	-376.72	-197.64	-19.71
		$My_{máx}$	-203.48	-104.32	4.24
		$Mz_{mín}$	-1.53	-2.71	-3.90
		$Mz_{máx}$	1.79	2.68	3.57

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N41/N241	Aço laminado	$N_{mín}$	-820.193	-820.142	-820.091
		$N_{máx}$	-454.467	-454.427	-454.388
		$Vy_{mín}$	2.516	2.516	2.516
		$Vy_{máx}$	8.374	8.374	8.374

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vz_{mín}$	-2236.450	-2235.867	-2235.284
		$Vz_{máx}$	-1240.736	-1240.287	-1239.839
		$Mt_{mín}$	-3.75	-3.75	-3.75
		$Mt_{máx}$	6.06	6.06	6.06
		$My_{mín}$	-1061.22	-781.70	-502.25
		$My_{máx}$	-586.29	-431.22	-276.21
		$Mz_{mín}$	-3.82	-4.19	-4.53
		$Mz_{máx}$	17.69	16.64	15.59

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N241/N34	Aço laminado	$N_{mín}$	-1083.982	-1083.905	-1083.828	-1083.752	-1083.675	-1083.599	-1083.522
		$N_{máx}$	-598.973	-598.914	-598.856	-598.797	-598.738	-598.679	-598.620
		$Vy_{mín}$	-1.735	-1.962	-2.189	-2.415	-2.642	-2.869	-3.096
		$Vy_{máx}$	8.658	8.658	8.658	8.658	8.658	8.658	8.658
		$Vz_{mín}$	-359.252	-358.378	-357.505	-356.632	-355.759	-354.886	-354.012
		$Vz_{máx}$	-199.213	-198.541	-197.870	-197.198	-196.526	-195.854	-195.183
		$Mt_{mín}$	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
		$Mt_{máx}$	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		$My_{mín}$	-944.37	-877.15	-810.14	-743.24	-676.52	-609.99	-543.59
		$My_{máx}$	-516.89	-479.63	-442.52	-405.52	-368.64	-331.91	-295.28
		$Mz_{mín}$	-5.40	-5.05	-4.66	-4.23	-3.76	-3.24	-2.68
		$Mz_{máx}$	16.28	14.66	13.04	11.42	9.80	8.18	6.55

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N34/N240	Aço laminado	$N_{mín}$	-1083.522	-1083.446	-1083.369	-1083.292	-1083.216	-1083.139	-1083.063
		$N_{máx}$	-598.620	-598.561	-598.502	-598.443	-598.384	-598.325	-598.267
		$Vy_{mín}$	-3.096	-3.322	-3.549	-3.776	-4.003	-4.229	-4.456
		$Vy_{máx}$	8.658	8.658	8.658	8.658	8.658	8.658	8.658
		$Vz_{mín}$	-354.012	-353.139	-352.266	-351.393	-350.519	-349.646	-348.773
		$Vz_{máx}$	-195.183	-194.511	-193.839	-193.167	-192.496	-191.824	-191.152
		$Mt_{mín}$	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Mt_{máx}$	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		$My_{mín}$	-543.59	-477.36	-411.32	-345.41	-279.67	-215.38	-151.99
		$My_{máx}$	-295.28	-258.78	-222.43	-186.18	-150.05	-114.08	-78.21
		$Mz_{mín}$	-2.68	-2.09	-1.54	-0.95	-0.31	-1.73	-3.22
		$Mz_{máx}$	6.55	4.94	3.41	1.88	0.60	0.92	1.60

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N240/N42	Aço laminado	$N_{mín}$	-1413.207	-1413.156	-1413.105
		$N_{máx}$	-776.862	-776.823	-776.783
		$Vy_{mín}$	-8.355	-8.507	-8.658
		$Vy_{máx}$	8.973	8.973	8.973
		$Vz_{mín}$	-1446.300	-1445.718	-1445.135
		$Vz_{máx}$	-783.380	-782.931	-782.483
		$Mt_{mín}$	-1.01	-1.01	-1.01
		$Mt_{máx}$	0.97	0.97	0.97
		$My_{mín}$	-463.61	-284.19	-107.76
		$My_{máx}$	-249.31	-151.42	-53.58
		$Mz_{mín}$	-3.43	-4.52	-5.64
		$Mz_{máx}$	1.73	2.75	3.82

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N42/N239	Aço laminado	$N_{mín}$	-1405.316	-1405.281	-1405.247
		$N_{máx}$	-775.632	-775.606	-775.580
		$Vy_{mín}$	-1.395	-1.395	-1.395
		$Vy_{máx}$	4.802	4.651	4.500
		$Vz_{mín}$	-1433.893	-1433.504	-1433.115
		$Vz_{máx}$	-773.935	-773.636	-773.337
		$Mt_{mín}$	-0.11	-0.11	-0.11
		$Mt_{máx}$	0.22	0.22	0.22
		$My_{mín}$	-106.98	42.90	140.06

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$My_{máx}$	-53.35	84.70	256.97
		$Mz_{mín}$	-5.82	-5.65	-5.47
		$Mz_{máx}$	4.06	3.47	2.89

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N239/N19	Aço laminado	$N_{mín}$	-1569.092	-1569.041	-1568.990	-1568.939	-1568.888	-1568.837	-1568.786
		$N_{máx}$	-864.136	-864.096	-864.057	-864.018	-863.979	-863.939	-863.900
		$Vy_{mín}$	-2.270	-2.270	-2.270	-2.270	-2.270	-2.270	-2.270
		$Vy_{máx}$	1.852	1.625	1.398	1.171	0.945	0.718	0.491
		$Vz_{mín}$	-95.901	-95.318	-94.736	-94.153	-93.570	-92.987	-92.404
		$Vz_{máx}$	-50.979	-50.531	-50.083	-49.634	-49.186	-48.738	-48.289
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	-54.78	-37.87	-21.08	-5.26	8.46	20.58	30.08
		$My_{máx}$	-19.93	-7.44	4.95	18.14	33.24	48.21	63.09
		$Mz_{mín}$	-5.47	-5.05	-4.62	-4.20	-3.77	-3.35	-2.92
		$Mz_{máx}$	2.94	2.61	2.33	2.09	1.89	1.73	1.62

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N19/N238	Aço laminado	$N_{mín}$	-1568.786	-1568.735	-1568.684	-1568.632	-1568.581	-1568.530	-1568.479
		$N_{máx}$	-863.900	-863.861	-863.821	-863.782	-863.743	-863.703	-863.664
		$Vy_{mín}$	-2.270	-2.270	-2.270	-2.270	-2.270	-2.270	-2.270
		$Vy_{máx}$	0.491	0.264	0.038	-0.189	-0.416	-0.643	-0.796
		$Vz_{mín}$	-92.404	-91.822	-91.239	-90.656	-90.073	-89.491	-88.908
		$Vz_{máx}$	-48.289	-47.841	-47.393	-46.944	-46.496	-46.048	-45.600
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	30.08	39.50	48.83	58.08	67.26	76.34	85.21
		$My_{máx}$	63.09	78.45	95.59	112.63	129.55	146.36	163.07
		$Mz_{mín}$	-2.92	-2.50	-2.07	-1.67	-1.31	-0.96	-0.61
		$Mz_{máx}$	1.62	1.55	1.52	1.56	1.68	1.85	2.07

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N238/N45	Aço laminado	$N_{mín}$	-1888.411	-1888.377	-1888.343
		$N_{máx}$	-1038.388	-1038.361	-1038.335
		$Vy_{mín}$	-3.997	-4.148	-4.300
		$Vy_{máx}$	-0.714	-0.714	-0.714
		$Vz_{mín}$	-1140.277	-1139.888	-1139.499
		$Vz_{máx}$	-609.191	-608.892	-608.592
		$Mt_{mín}$	-0.52	-0.52	-0.52
		$Mt_{máx}$	-0.05	-0.05	-0.05
		$My_{mín}$	-181.87	-39.36	63.90
		$My_{máx}$	-88.16	-8.88	125.04
		$Mz_{mín}$	-0.65	-0.30	0.06
		$Mz_{máx}$	2.02	2.53	3.05

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N45/N237	Aço laminado	$N_{mín}$	-1873.410	-1873.376	-1873.342
		$N_{máx}$	-1023.810	-1023.783	-1023.757
		$Vy_{mín}$	-2.256	-2.256	-2.256
		$Vy_{máx}$	9.312	9.161	9.009
		$Vz_{mín}$	-1128.084	-1127.695	-1127.306
		$Vz_{máx}$	-599.840	-599.541	-599.242
		$Mt_{mín}$	-0.02	-0.02	-0.02
		$Mt_{máx}$	0.51	0.51	0.51
		$My_{mín}$	64.13	140.28	215.20
		$My_{máx}$	126.37	264.87	403.33
		$Mz_{mín}$	0.06	0.35	0.44
		$Mz_{máx}$	3.29	2.14	1.01

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N237/N35	Aço laminado	$N_{mín}$	-2004.608	-2004.557	-2004.506	-2004.455	-2004.404	-2004.353	-2004.302

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$N_{máx}$	-1095.200	-1095.161	-1095.122	-1095.082	-1095.043	-1095.004	-1094.964
		$Vy_{mín}$	-2.801	-2.801	-2.801	-2.801	-2.801	-2.801	-2.801
		$Vy_{máx}$	6.084	5.858	5.631	5.404	5.177	4.951	4.724
		$Vz_{mín}$	-38.111	-37.529	-36.946	-36.363	-35.780	-35.198	-34.615
		$Vz_{máx}$	-18.845	-18.396	-17.948	-17.500	-17.051	-16.603	-16.155
		$Mt_{mín}$	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
		$Mt_{máx}$	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		$My_{mín}$	79.09	82.87	86.56	89.93	93.16	96.31	99.38
		$My_{máx}$	155.87	162.10	168.22	174.23	180.14	185.93	191.62
		$Mz_{mín}$	0.43	-0.34	-1.39	-2.39	-3.36	-4.28	-5.15
		$Mz_{máx}$	1.02	1.40	1.89	2.39	2.89	3.38	3.88

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N35/N236	Aço laminado	$N_{mín}$	-2004.302	-2004.251	-2004.200	-2004.148	-2004.097	-2004.046	-2003.995
		$N_{máx}$	-1094.964	-1094.925	-1094.886	-1094.847	-1094.807	-1094.768	-1094.729
		$Vy_{mín}$	-2.801	-2.801	-2.801	-2.801	-2.801	-2.801	-2.801
		$Vy_{máx}$	4.724	4.497	4.270	4.043	3.817	3.590	3.363
		$Vz_{mín}$	-34.615	-34.032	-33.449	-32.866	-32.284	-31.701	-31.118
		$Vz_{máx}$	-16.155	-15.707	-15.258	-14.810	-14.362	-13.914	-13.465
		$Mt_{mín}$	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
		$Mt_{máx}$	0.04	0.04	0.04	0.04	0.04	0.04	0.04
		$My_{mín}$	99.38	102.37	105.26	108.08	110.81	113.46	116.03
		$My_{máx}$	191.62	197.19	202.66	208.02	213.27	218.41	223.44
		$Mz_{mín}$	-5.15	-5.99	-6.78	-7.53	-8.26	-8.95	-9.60
		$Mz_{máx}$	3.88	4.37	4.87	5.36	5.88	6.41	6.93

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N236/N47	Aço laminado	$N_{mín}$	-2199.881	-2199.847	-2199.813
		$N_{máx}$	-1203.210	-1203.184	-1203.158
		$Vy_{mín}$	-3.509	-3.509	-3.509
		$Vy_{máx}$	1.586	1.586	1.586
		$Vz_{mín}$	-732.689	-732.300	-731.912

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vz_{máx}$	-356.453	-356.154	-355.855
		$Mt_{mín}$	-2.13	-2.13	-2.13
		$Mt_{máx}$	0.39	0.39	0.39
		$My_{mín}$	-14.14	48.73	95.76
		$My_{máx}$	31.51	108.44	185.93
		$Mz_{mín}$	-9.31	-9.36	-9.40
		$Mz_{máx}$	6.81	7.24	7.68

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N47/N235	Aço laminado	$N_{mín}$	-2185.540	-2185.506	-2185.472
		$N_{máx}$	-1198.938	-1198.912	-1198.886
		$Vy_{mín}$	-22.139	-22.290	-22.442
		$Vy_{máx}$	22.493	22.493	22.493
		$Vz_{mín}$	-720.864	-720.475	-720.086
		$Vz_{máx}$	-346.559	-346.260	-345.960
		$Mt_{mín}$	-3.82	-3.82	-3.82
		$Mt_{máx}$	2.36	2.36	2.36
		$My_{mín}$	96.24	139.54	182.80
		$My_{máx}$	187.16	263.22	353.20
		$Mz_{mín}$	-9.79	-7.01	-4.22
		$Mz_{máx}$	8.14	5.33	2.51

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N235/N20	Aço laminado	$N_{mín}$	-2268.356	-2268.304	-2268.253	-2268.202	-2268.151	-2268.100	-2268.049
		$N_{máx}$	-1238.297	-1238.258	-1238.219	-1238.179	-1238.140	-1238.101	-1238.061
		$Vy_{mín}$	-16.032	-16.259	-16.486	-16.712	-16.939	-17.166	-17.393
		$Vy_{máx}$	17.469	17.469	17.469	17.469	17.469	17.469	17.469
		$Vz_{mín}$	7.472	8.139	8.765	9.208	9.650	10.093	10.535
		$Vz_{máx}$	22.153	22.602	23.074	23.657	24.240	24.822	25.405
		$Mt_{mín}$	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
		$Mt_{máx}$	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		$My_{mín}$	112.22	110.25	108.19	106.04	103.81	101.50	99.10
		$My_{máx}$	215.92	211.76	207.49	203.12	198.63	194.04	189.36
		$Mz_{mín}$	-4.10	-1.39	-4.42	-7.66	-10.89	-14.12	-17.36
		$Mz_{máx}$	2.46	-0.69	2.33	5.40	8.52	11.67	14.87

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.187 m	0.375 m	0.562 m	0.749 m	0.936 m	1.124 m
N20/N234	Aço laminado	$N_{mín}$	-2268.049	-2267.998	-2267.947	-2267.896	-2267.845	-2267.793	-2267.742
		$N_{máx}$	-1238.061	-1238.022	-1237.983	-1237.943	-1237.904	-1237.865	-1237.825
		$Vy_{mín}$	-17.393	-17.619	-17.846	-18.073	-18.300	-18.526	-18.753
		$Vy_{máx}$	17.469	17.469	17.469	17.469	17.469	17.469	17.469
		$Vz_{mín}$	10.535	10.978	11.421	11.863	12.306	12.748	13.191
		$Vz_{máx}$	25.405	25.988	26.571	27.154	27.736	28.319	28.902
		$Mt_{mín}$	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
		$Mt_{máx}$	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		$My_{mín}$	99.10	96.62	94.06	91.41	88.68	85.86	82.96
		$My_{máx}$	189.36	186.45	183.44	180.32	177.08	173.74	170.29
		$Mz_{mín}$	-17.36	-20.59	-23.82	-27.09	-30.36	-33.63	-36.90
		$Mz_{máx}$	14.87	18.11	21.39	24.75	28.16	31.60	35.09

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N234/N48	Aço laminado	$N_{mín}$	-2308.960	-2308.926	-2308.891
		$N_{máx}$	-1254.014	-1253.988	-1253.962
		$Vy_{mín}$	-13.577	-13.729	-13.880
		$Vy_{máx}$	13.347	13.347	13.347
		$Vz_{mín}$	-87.661	-87.272	-86.884
		$Vz_{máx}$	51.135	51.434	51.733
		$Mt_{mín}$	-3.57	-3.57	-3.57
		$Mt_{máx}$	5.04	5.04	5.04
		$My_{mín}$	52.34	53.60	54.83
		$My_{máx}$	116.05	110.37	113.65

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mz_{mín}$	-36.38	-37.98	-39.59
		$Mz_{máx}$	34.28	35.92	37.59

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N33/N226	Aço laminado	$N_{mín}$	-1473.648	-1473.601	-1473.553
		$N_{máx}$	-809.315	-809.279	-809.243
		$Vy_{mín}$	-5.282	-5.131	-4.980
		$Vy_{máx}$	0.086	0.086	0.086
		$Vz_{mín}$	-1436.661	-1436.274	-1435.886
		$Vz_{máx}$	-777.048	-776.750	-776.452
		$Mt_{mín}$	-0.19	-0.19	-0.19
		$Mt_{máx}$	0.07	0.07	0.07
		$My_{mín}$	-113.22	39.70	136.78
		$My_{máx}$	-57.41	83.22	251.27
		$Mz_{mín}$	-6.26	-5.61	-4.98
		$Mz_{máx}$	3.86	3.92	3.97

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N226/N22	Aço laminado	$N_{mín}$	-1594.738	-1594.667	-1594.596	-1594.524	-1594.453	-1594.382	-1594.311
		$N_{máx}$	-874.930	-874.875	-874.821	-874.766	-874.711	-874.656	-874.602
		$Vy_{mín}$	-2.105	-1.877	-1.649	-1.422	-1.194	-0.966	-0.738
		$Vy_{máx}$	0.389	0.389	0.389	0.389	0.389	0.389	0.389
		$Vz_{mín}$	-95.192	-94.609	-94.026	-93.443	-92.859	-92.276	-91.693
		$Vz_{máx}$	-50.720	-50.272	-49.823	-49.374	-48.926	-48.477	-48.028
		$Mt_{mín}$	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	-51.93	-35.06	-18.30	-2.97	10.72	22.31	32.10
		$My_{máx}$	-13.80	-1.35	11.02	24.64	39.70	54.64	69.48
		$Mz_{mín}$	-5.00	-4.63	-4.30	-4.01	-3.76	-3.56	-3.40
		$Mz_{máx}$	3.97	3.90	3.83	3.75	3.68	3.61	3.54

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N22/N227	Aço laminado	$N_{mín}$	-1594.311	-1594.240	-1594.169	-1594.097	-1594.026	-1593.955	-1593.884
		$N_{máx}$	-874.602	-874.547	-874.492	-874.437	-874.383	-874.328	-874.273
		$Vy_{mín}$	-0.738	-0.511	-0.283	-0.055	-0.047	-0.047	-0.047
		$Vy_{máx}$	0.389	0.389	0.389	0.389	0.389	0.447	0.674
		$Vz_{mín}$	-91.693	-91.110	-90.527	-89.943	-89.360	-88.777	-88.193
		$Vz_{máx}$	-48.028	-47.580	-47.131	-46.683	-46.234	-45.785	-45.337
		$Mt_{mín}$	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
		$Mt_{máx}$	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		$My_{mín}$	32.10	41.79	51.18	60.12	68.86	77.51	86.09
		$My_{máx}$	69.48	84.21	98.82	115.02	131.89	148.63	165.28
		$Mz_{mín}$	-3.40	-3.29	-3.21	-3.19	-3.20	-3.27	-3.37
		$Mz_{máx}$	3.54	3.47	3.40	3.33	3.26	3.20	3.13

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N227/N54	Aço laminado	$N_{mín}$	-1950.783	-1950.735	-1950.688
		$N_{máx}$	-1069.641	-1069.605	-1069.568
		$Vy_{mín}$	-0.048	-0.048	-0.048
		$Vy_{máx}$	3.672	3.823	3.974
		$Vz_{mín}$	-1141.637	-1141.250	-1140.862
		$Vz_{máx}$	-611.077	-610.779	-610.481
		$Mt_{mín}$	-0.24	-0.24	-0.24
		$Mt_{máx}$	0.86	0.86	0.86
		$My_{mín}$	-187.60	-44.92	60.48
		$My_{máx}$	-92.21	-9.27	119.64
		$Mz_{mín}$	-3.39	-3.85	-4.34
		$Mz_{máx}$	3.25	3.11	2.97

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N54/N228	Aço laminado	$N_{mín}$	-1930.146	-1930.099	-1930.051
		$N_{máx}$	-1051.870	-1051.834	-1051.797

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vy_{mín}$	-13.984	-13.833	-13.682
		$Vy_{máx}$	8.581	8.581	8.581
		$Vz_{mín}$	-1129.169	-1128.782	-1128.394
		$Vz_{máx}$	-601.242	-600.944	-600.645
		$Mt_{mín}$	-0.54	-0.54	-0.54
		$Mt_{máx}$	0.33	0.33	0.33
		$My_{mín}$	62.03	137.19	212.29
		$My_{máx}$	121.48	260.12	398.71
		$Mz_{mín}$	-4.77	-3.05	-1.35
		$Mz_{máx}$	3.15	2.09	1.04

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N228/N32	Aço laminado	$N_{mín}$	-2026.866	-2026.795	-2026.724	-2026.653	-2026.581	-2026.510	-2026.439
		$N_{máx}$	-1104.903	-1104.848	-1104.793	-1104.738	-1104.684	-1104.629	-1104.574
		$Vy_{mín}$	-10.650	-10.422	-10.195	-9.967	-9.739	-9.511	-9.284
		$Vy_{máx}$	9.023	9.023	9.023	9.023	9.023	9.023	9.023
		$Vz_{mín}$	-38.242	-37.658	-37.075	-36.492	-35.908	-35.325	-34.742
		$Vz_{máx}$	-18.113	-17.664	-17.216	-16.767	-16.319	-15.870	-15.421
		$Mt_{mín}$	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		$Mt_{máx}$	0.11	0.11	0.11	0.11	0.11	0.11	0.11
		$My_{mín}$	80.08	83.45	86.73	89.92	93.04	96.06	99.01
		$My_{máx}$	158.66	164.88	170.98	176.99	182.88	188.66	194.33
		$Mz_{mín}$	-1.36	-0.75	-2.45	-4.15	-5.84	-7.54	-9.24
		$Mz_{máx}$	1.03	0.71	2.65	4.54	6.40	8.21	9.98

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N32/N229	Aço laminado	$N_{mín}$	-2026.439	-2026.368	-2026.297	-2026.226	-2026.154	-2026.083	-2026.012
		$N_{máx}$	-1104.574	-1104.519	-1104.465	-1104.410	-1104.355	-1104.301	-1104.246
		$Vy_{mín}$	-9.284	-9.056	-8.828	-8.600	-8.373	-8.145	-7.917
		$Vy_{máx}$	9.023	9.023	9.023	9.023	9.023	9.023	9.023
		$Vz_{mín}$	-34.742	-34.159	-33.576	-32.992	-32.409	-31.826	-31.243

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$Vz_{máx}$	-15.421	-14.973	-14.524	-14.075	-13.627	-13.178	-12.729
		$Mt_{mín}$	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		$Mt_{máx}$	0.11	0.11	0.11	0.11	0.11	0.11	0.11
		$My_{mín}$	99.01	101.86	104.64	107.33	109.93	112.45	114.89
		$My_{máx}$	194.33	199.89	205.34	210.69	215.92	221.04	226.06
		$Mz_{mín}$	-9.24	-10.94	-12.63	-14.33	-16.03	-17.72	-19.42
		$Mz_{máx}$	9.98	11.70	13.38	15.02	16.62	18.17	19.68

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N229/N52	Aço laminado	$N_{mín}$	-2245.494	-2245.447	-2245.400
		$N_{máx}$	-1226.758	-1226.722	-1226.685
		$Vy_{mín}$	-5.042	-4.891	-4.739
		$Vy_{máx}$	9.772	9.772	9.772
		$Vz_{mín}$	-729.584	-729.197	-728.809
		$Vz_{máx}$	-361.754	-361.456	-361.158
		$Mt_{mín}$	-0.14	-0.14	-0.14
		$Mt_{máx}$	2.47	2.47	2.47
		$My_{mín}$	-15.02	46.84	92.01
		$My_{máx}$	30.86	107.43	184.63
		$Mz_{mín}$	-19.42	-20.64	-21.86
		$Mz_{máx}$	19.34	19.96	20.56

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N52/N230	Aço laminado	$N_{mín}$	-2234.695	-2234.647	-2234.600
		$N_{máx}$	-1208.390	-1208.353	-1208.317
		$Vy_{mín}$	-25.570	-25.570	-25.570
		$Vy_{máx}$	27.244	27.395	27.546
		$Vz_{mín}$	-717.416	-717.028	-716.641
		$Vz_{máx}$	-353.785	-353.487	-353.189
		$Mt_{mín}$	-2.85	-2.85	-2.85

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mt_{máx}$	4.89	4.89	4.89
		$My_{mín}$	93.58	137.78	181.95
		$My_{máx}$	185.74	261.47	350.93
		$Mz_{mín}$	-22.68	-19.64	-16.60
		$Mz_{máx}$	21.30	18.04	14.77

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N230/N21	Aço laminado	$N_{mín}$	-2293.094	-2293.023	-2292.952	-2292.881	-2292.810	-2292.739	-2292.667
		$N_{máx}$	-1237.342	-1237.287	-1237.233	-1237.178	-1237.123	-1237.068	-1237.014
		$Vy_{mín}$	-19.489	-19.489	-19.489	-19.489	-19.489	-19.489	-19.489
		$Vy_{máx}$	18.466	18.694	18.922	19.150	19.378	19.605	19.833
		$Vz_{mín}$	4.769	5.450	6.047	6.504	6.960	7.417	7.873
		$Vz_{máx}$	24.065	24.513	25.012	25.595	26.179	26.762	27.345
		$Mt_{mín}$	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83
		$Mt_{máx}$	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		$My_{mín}$	111.61	109.01	106.33	103.57	100.71	97.78	94.76
		$My_{máx}$	220.27	215.73	211.08	206.32	201.45	196.47	192.10
		$Mz_{mín}$	-16.57	-12.93	-9.30	-5.66	-2.02	-3.83	-7.53
		$Mz_{máx}$	14.69	11.23	7.72	4.17	0.57	2.38	6.04

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N21/N231	Aço laminado	$N_{mín}$	-2292.667	-2292.596	-2292.525	-2292.454	-2292.383	-2292.312	-2292.240
		$N_{máx}$	-1237.014	-1236.959	-1236.904	-1236.849	-1236.795	-1236.740	-1236.685
		$Vy_{mín}$	-19.489	-19.489	-19.489	-19.489	-19.489	-19.489	-19.489
		$Vy_{máx}$	19.833	20.061	20.288	20.516	20.744	20.972	21.200
		$Vz_{mín}$	7.873	8.330	8.786	9.243	9.700	10.156	10.613
		$Vz_{máx}$	27.345	27.929	28.512	29.095	29.678	30.261	30.845
		$Mt_{mín}$	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83
		$Mt_{máx}$	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		$My_{mín}$	94.76	91.65	88.47	85.19	81.84	78.39	74.87
		$My_{máx}$	192.10	188.77	185.33	181.79	178.13	174.36	170.49
		$Mz_{mín}$	-7.53	-11.28	-15.06	-18.89	-22.76	-26.68	-30.63

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$Mz_{máx}$	6.04	9.70	13.35	17.01	20.67	24.32	27.98

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N231/N50	Aço laminado	$N_{mín}$	-2332.138	-2332.091	-2332.044
		$N_{máx}$	-1256.667	-1256.630	-1256.594
		$Vy_{mín}$	-10.032	-10.032	-10.032
		$Vy_{máx}$	8.666	8.818	8.969
		$Vz_{mín}$	-76.924	-76.537	-76.149
		$Vz_{máx}$	59.631	59.929	60.227
		$Mt_{mín}$	-35.99	-35.99	-35.99
		$Mt_{máx}$	31.01	31.01	31.01
		$My_{mín}$	39.96	41.61	43.22
		$My_{máx}$	119.46	112.49	114.31
		$Mz_{mín}$	-22.31	-23.29	-24.29
		$Mz_{máx}$	20.77	21.91	23.05

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N56/N224	Aço laminado	$N_{mín}$	-909.546	-909.476	-909.405
		$N_{máx}$	-496.164	-496.109	-496.055
		$Vy_{mín}$	-5.307	-5.307	-5.307
		$Vy_{máx}$	0.374	0.526	0.677
		$Vz_{mín}$	-2243.350	-2242.769	-2242.188
		$Vz_{máx}$	-1236.858	-1236.412	-1235.965
		$Mt_{mín}$	-3.52	-3.52	-3.52
		$Mt_{máx}$	4.87	4.87	4.87
		$My_{mín}$	-1084.67	-805.07	-525.54
		$My_{máx}$	-602.46	-447.88	-293.36
		$Mz_{mín}$	-11.71	-11.05	-10.38
		$Mz_{máx}$	10.88	10.82	10.75

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Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N224/N31	Aço laminado	$N_{mín}$	-1109.813	-1109.706	-1109.599	-1109.493	-1109.386	-1109.279	-1109.173
		$N_{máx}$	-606.748	-606.666	-606.584	-606.502	-606.420	-606.338	-606.256
		$Vy_{mín}$	-5.807	-5.807	-5.807	-5.807	-5.807	-5.807	-5.807
		$Vy_{máx}$	4.845	5.073	5.301	5.529	5.757	5.984	6.212
		$Vz_{mín}$	-361.774	-360.900	-360.026	-359.152	-358.278	-357.405	-356.531
		$Vz_{máx}$	-201.456	-200.784	-200.112	-199.440	-198.767	-198.095	-197.423
		$Mt_{mín}$	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61
		$Mt_{máx}$	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		$My_{mín}$	-951.47	-883.48	-815.70	-748.05	-680.55	-613.27	-546.10
		$My_{máx}$	-523.52	-485.68	-447.98	-410.40	-372.93	-335.62	-298.41
		$Mz_{mín}$	-11.09	-10.00	-8.90	-7.81	-6.72	-5.63	-4.53
		$Mz_{máx}$	11.28	10.35	9.37	8.35	7.29	6.19	5.04

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N31/N225	Aço laminado	$N_{mín}$	-1109.173	-1109.066	-1108.959	-1108.853	-1108.746	-1108.640	-1108.533
		$N_{máx}$	-606.256	-606.174	-606.092	-606.010	-605.927	-605.845	-605.763
		$Vy_{mín}$	-5.807	-5.807	-5.807	-5.807	-5.807	-5.807	-5.807
		$Vy_{máx}$	6.212	6.440	6.667	6.895	7.123	7.351	7.578
		$Vz_{mín}$	-356.531	-355.656	-354.783	-353.909	-353.035	-352.161	-351.287
		$Vz_{máx}$	-197.423	-196.750	-196.079	-195.406	-194.734	-194.062	-193.389
		$Mt_{mín}$	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61	-0.61
		$Mt_{máx}$	0.22	0.22	0.22	0.22	0.22	0.22	0.22
		$My_{mín}$	-546.10	-479.10	-412.31	-345.64	-279.13	-214.08	-149.96
		$My_{máx}$	-298.41	-261.33	-224.40	-187.57	-150.87	-114.31	-77.86
		$Mz_{mín}$	-4.53	-3.44	-2.35	-1.26	-0.22	-1.35	-2.75
		$Mz_{máx}$	5.04	3.85	2.62	1.34	0.03	0.94	2.02

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N225/N33	Aço laminado	$N_{mín}$	-1477.704	-1477.633	-1477.562
		$N_{máx}$	-805.730	-805.676	-805.621
		$Vy_{mín}$	-6.098	-6.098	-6.098
		$Vy_{máx}$	11.484	11.636	11.787

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vz_{mín}$	-1449.263	-1448.683	-1448.102
		$Vz_{máx}$	-786.930	-786.483	-786.036
		$Mt_{mín}$	-0.61	-0.61	-0.61
		$Mt_{máx}$	1.23	1.23	1.23
		$My_{mín}$	-470.54	-290.59	-113.79
		$My_{máx}$	-253.96	-155.63	-57.34
		$Mz_{mín}$	-2.94	-4.38	-5.85
		$Mz_{máx}$	2.20	2.96	3.72

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N58/N185	Aço laminado	$N_{mín}$	-1473.219	-1473.171	-1473.124
		$N_{máx}$	-812.934	-812.898	-812.862
		$Vy_{mín}$	-0.116	-0.116	-0.116
		$Vy_{máx}$	5.735	5.584	5.433
		$Vz_{mín}$	-1432.307	-1431.919	-1431.532
		$Vz_{máx}$	-771.165	-770.867	-770.569
		$Mt_{mín}$	-0.03	-0.03	-0.03
		$Mt_{máx}$	0.26	0.26	0.26
		$My_{mín}$	-112.64	39.46	136.35
		$My_{máx}$	-56.37	84.43	251.63
		$Mz_{mín}$	-4.12	-4.12	-4.12
		$Mz_{máx}$	7.08	6.37	5.68

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N185/N18	Aço laminado	$N_{mín}$	-1593.914	-1593.843	-1593.772	-1593.701	-1593.630	-1593.559	-1593.487
		$N_{máx}$	-877.969	-877.914	-877.859	-877.804	-877.750	-877.695	-877.640
		$Vy_{mín}$	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843
		$Vy_{máx}$	2.737	2.509	2.282	2.054	1.826	1.598	1.371
		$Vz_{mín}$	-94.900	-94.317	-93.734	-93.151	-92.567	-91.984	-91.401
		$Vz_{máx}$	-50.262	-49.813	-49.365	-48.916	-48.467	-48.019	-47.570

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		$My_{mín}$	-51.51	-34.70	-18.01	-2.79	10.85	22.20	31.68
		$My_{máx}$	-12.18	0.15	12.40	25.94	40.87	55.68	70.39
		$Mz_{mín}$	-4.13	-3.97	-3.81	-3.65	-3.49	-3.34	-3.18
		$Mz_{máx}$	5.70	5.21	4.76	4.35	3.99	3.66	3.39

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N18/N184	Aço laminado	$N_{mín}$	-1593.487	-1593.416	-1593.345	-1593.274	-1593.203	-1593.132	-1593.060
		$N_{máx}$	-877.640	-877.585	-877.531	-877.476	-877.421	-877.366	-877.312
		$Vy_{mín}$	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843	-0.843
		$Vy_{máx}$	1.371	1.143	0.915	0.687	0.530	0.530	0.530
		$Vz_{mín}$	-91.401	-90.818	-90.234	-89.651	-89.068	-88.485	-87.901
		$Vz_{máx}$	-47.570	-47.121	-46.673	-46.224	-45.775	-45.327	-44.878
		$Mt_{mín}$	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
		$Mt_{máx}$	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		$My_{mín}$	31.68	41.08	50.38	59.62	68.76	77.52	86.01
		$My_{máx}$	70.39	84.99	99.47	114.93	131.74	148.44	165.03
		$Mz_{mín}$	-3.18	-3.02	-2.89	-2.77	-2.68	-2.60	-2.51
		$Mz_{máx}$	3.39	3.15	2.99	2.87	2.84	2.85	2.90

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N184/N55	Aço laminado	$N_{mín}$	-1948.622	-1948.575	-1948.527
		$N_{máx}$	-1070.806	-1070.770	-1070.734
		$Vy_{mín}$	-3.257	-3.408	-3.559
		$Vy_{máx}$	0.592	0.592	0.592
		$Vz_{mín}$	-1137.019	-1136.631	-1136.244
		$Vz_{máx}$	-605.345	-605.047	-604.749
		$Mt_{mín}$	-0.76	-0.76	-0.76
		$Mt_{máx}$	0.16	0.16	0.16
		$My_{mín}$	-186.68	-44.58	60.75

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$My_{máx}$	-90.48	-8.29	119.53
		$Mz_{mín}$	-2.61	-2.45	-2.29
		$Mz_{máx}$	2.89	3.31	3.74

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N55/N183	Aço laminado	$N_{mín}$	-1934.523	-1934.476	-1934.429
		$N_{máx}$	-1053.800	-1053.763	-1053.727
		$Vy_{mín}$	-6.740	-6.740	-6.740
		$Vy_{máx}$	14.868	14.717	14.565
		$Vz_{mín}$	-1124.487	-1124.100	-1123.712
		$Vz_{máx}$	-595.975	-595.677	-595.379
		$Mt_{mín}$	-0.23	-0.23	-0.23
		$Mt_{máx}$	0.64	0.64	0.64
		$My_{mín}$	60.97	136.76	211.20
		$My_{máx}$	120.87	258.98	397.03
		$Mz_{mín}$	-2.42	-1.61	-0.80
		$Mz_{máx}$	4.18	2.37	0.57

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N183/N27	Aço laminado	$N_{mín}$	-2030.902	-2030.831	-2030.759	-2030.688	-2030.617	-2030.546	-2030.475
		$N_{máx}$	-1106.176	-1106.122	-1106.067	-1106.012	-1105.957	-1105.903	-1105.848
		$Vy_{mín}$	-7.221	-7.221	-7.221	-7.221	-7.221	-7.221	-7.221
		$Vy_{máx}$	11.569	11.341	11.114	10.886	10.658	10.430	10.203
		$Vz_{mín}$	-37.533	-36.949	-36.366	-35.783	-35.200	-34.617	-34.033
		$Vz_{máx}$	-18.477	-18.029	-17.580	-17.131	-16.683	-16.234	-15.785
		$Mt_{mín}$	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		$Mt_{máx}$	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		$My_{mín}$	80.16	83.89	87.42	90.68	93.87	96.96	99.97
		$My_{máx}$	157.84	163.96	169.96	175.86	181.65	187.33	192.90
		$Mz_{mín}$	-0.80	-1.91	-3.96	-6.01	-8.04	-10.02	-11.96

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$Mz_{máx}$	0.58	0.89	2.19	3.53	4.89	6.25	7.60

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N27/N182	Aço laminado	$N_{mín}$	-2030.475	-2030.404	-2030.332	-2030.261	-2030.190	-2030.119	-2030.048
		$N_{máx}$	-1105.848	-1105.793	-1105.738	-1105.684	-1105.629	-1105.574	-1105.519
		$Vy_{mín}$	-7.221	-7.221	-7.221	-7.221	-7.221	-7.221	-7.221
		$Vy_{máx}$	10.203	9.975	9.747	9.519	9.292	9.064	8.836
		$Vz_{mín}$	-34.033	-33.450	-32.867	-32.283	-31.700	-31.117	-30.534
		$Vz_{máx}$	-15.785	-15.337	-14.888	-14.440	-13.991	-13.542	-13.094
		$Mt_{mín}$	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
		$Mt_{máx}$	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		$My_{mín}$	99.97	102.90	105.74	108.50	111.18	113.76	116.27
		$My_{máx}$	192.90	198.36	203.71	208.95	214.08	219.10	224.02
		$Mz_{mín}$	-11.96	-13.86	-15.72	-17.53	-19.30	-21.02	-22.71
		$Mz_{máx}$	7.60	8.96	10.32	11.68	13.04	14.40	15.75

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N182/N53	Aço laminado	$N_{mín}$	-2249.037	-2248.989	-2248.942
		$N_{máx}$	-1225.150	-1225.114	-1225.078
		$Vy_{mín}$	-7.937	-7.937	-7.937
		$Vy_{máx}$	5.969	5.818	5.666
		$Vz_{mín}$	-729.375	-728.987	-728.600
		$Vz_{máx}$	-353.642	-353.344	-353.046
		$Mt_{mín}$	-1.54	-1.54	-1.54
		$Mt_{máx}$	-0.08	-0.08	-0.08
		$My_{mín}$	-16.55	46.57	93.92
		$My_{máx}$	29.07	105.51	182.62
		$Mz_{mín}$	-22.53	-23.26	-23.98
		$Mz_{máx}$	15.74	16.73	17.72

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N53/N181	Aço laminado	$N_{mín}$	-2237.849	-2237.802	-2237.755
		$N_{máx}$	-1223.902	-1223.865	-1223.829
		$Vy_{mín}$	-25.338	-25.489	-25.641
		$Vy_{máx}$	22.787	22.787	22.787
		$Vz_{mín}$	-717.736	-717.348	-716.960
		$Vz_{máx}$	-343.340	-343.041	-342.743
		$Mt_{mín}$	-3.89	-3.89	-3.89
		$Mt_{máx}$	2.27	2.27	2.27
		$My_{mín}$	94.24	137.14	180.00
		$My_{máx}$	183.70	259.39	348.40
		$Mz_{mín}$	-24.73	-21.56	-18.36
		$Mz_{máx}$	18.46	15.62	12.77

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N181/N17	Aço laminado	$N_{mín}$	-2296.773	-2296.702	-2296.631	-2296.559	-2296.488	-2296.417	-2296.346
		$N_{máx}$	-1251.393	-1251.338	-1251.283	-1251.228	-1251.174	-1251.119	-1251.064
		$Vy_{mín}$	-19.475	-19.703	-19.930	-20.158	-20.386	-20.614	-20.841
		$Vy_{máx}$	18.051	18.051	18.051	18.051	18.051	18.051	18.051
		$Vz_{mín}$	9.136	9.809	10.307	10.755	11.204	11.653	12.101
		$Vz_{máx}$	23.513	23.962	24.515	25.099	25.682	26.265	26.848
		$Mt_{mín}$	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74
		$Mt_{máx}$	0.80	0.80	0.80	0.80	0.80	0.80	0.80
		$My_{mín}$	112.92	111.10	109.21	107.23	105.16	103.01	100.78
		$My_{máx}$	217.24	212.79	208.24	203.57	198.79	193.91	189.04
		$Mz_{mín}$	-18.29	-14.60	-10.88	-7.11	-3.29	-4.88	-8.14
		$Mz_{máx}$	12.73	9.34	5.94	2.55	-0.85	1.20	4.97

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N17/N180	Aço laminado	$N_{mín}$	-2296.346	-2296.275	-2296.203	-2296.132	-2296.061	-2295.990	-2295.919
		$N_{máx}$	-1251.064	-1251.009	-1250.955	-1250.900	-1250.845	-1250.790	-1250.736
		$Vy_{mín}$	-20.841	-21.069	-21.297	-21.525	-21.752	-21.980	-22.208

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$Vy_{máx}$	18.051	18.051	18.051	18.051	18.051	18.051	18.051
		$Vz_{mín}$	12.101	12.550	12.999	13.447	13.896	14.345	14.793
		$Vz_{máx}$	26.848	27.432	28.015	28.598	29.181	29.764	30.348
		$Mt_{mín}$	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74
		$Mt_{máx}$	0.80	0.80	0.80	0.80	0.80	0.80	0.80
		$My_{mín}$	100.78	98.46	96.06	93.57	91.00	88.34	85.60
		$My_{máx}$	189.04	185.85	182.55	179.14	175.62	171.99	168.25
		$Mz_{mín}$	-8.14	-11.43	-14.79	-18.16	-21.52	-24.89	-28.25
		$Mz_{máx}$	4.97	8.80	12.75	16.75	20.79	24.87	29.00

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N180/N51	Aço laminado	$N_{mín}$	-2339.396	-2339.348	-2339.301
		$N_{máx}$	-1266.743	-1266.707	-1266.670
		$Vy_{mín}$	-11.713	-11.864	-12.016
		$Vy_{máx}$	9.008	9.008	9.008
		$Vz_{mín}$	-84.858	-84.471	-84.083
		$Vz_{máx}$	53.138	53.436	53.734
		$Mt_{mín}$	-30.27	-30.27	-30.27
		$Mt_{máx}$	34.02	34.02	34.02
		$My_{mín}$	50.08	53.44	56.76
		$My_{máx}$	115.10	109.12	111.50
		$Mz_{mín}$	-21.15	-22.24	-23.34
		$Mz_{máx}$	20.99	22.44	23.90

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N57/N187	Aço laminado	$N_{mín}$	-917.304	-917.233	-917.162
		$N_{máx}$	-501.392	-501.338	-501.283
		$Vy_{mín}$	0.984	0.833	0.681
		$Vy_{máx}$	6.595	6.595	6.595
		$Vz_{mín}$	-2253.906	-2253.325	-2252.745

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vz_{máx}$	-1236.310	-1235.863	-1235.417
		$Mt_{mín}$	-3.27	-3.27	-3.27
		$Mt_{máx}$	5.25	5.25	5.25
		$My_{mín}$	-1088.10	-806.40	-524.77
		$My_{máx}$	-598.44	-443.93	-289.47
		$Mz_{mín}$	-7.03	-7.14	-7.24
		$Mz_{máx}$	15.07	14.24	13.42

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N187/N30	Aço laminado	$N_{mín}$	-1113.369	-1113.262	-1113.156	-1113.049	-1112.942	-1112.836	-1112.729
		$N_{máx}$	-611.761	-611.679	-611.597	-611.515	-611.433	-611.351	-611.269
		$Vy_{mín}$	-3.663	-3.890	-4.118	-4.346	-4.574	-4.801	-5.029
		$Vy_{máx}$	6.861	6.861	6.861	6.861	6.861	6.861	6.861
		$Vz_{mín}$	-362.912	-362.038	-361.164	-360.290	-359.416	-358.543	-357.668
		$Vz_{máx}$	-200.257	-199.584	-198.912	-198.240	-197.567	-196.895	-196.223
		$Mt_{mín}$	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
		$Mt_{máx}$	0.69	0.69	0.69	0.69	0.69	0.69	0.69
		$My_{mín}$	-948.99	-881.15	-813.51	-746.00	-678.65	-611.51	-544.49
		$My_{máx}$	-519.34	-481.72	-444.26	-406.89	-369.66	-332.57	-295.59
		$Mz_{mín}$	-7.90	-7.19	-6.44	-5.64	-4.80	-3.92	-3.00
		$Mz_{máx}$	13.95	12.66	11.37	10.08	8.79	7.50	6.21

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
N30/N186	Aço laminado	$N_{mín}$	-1112.729	-1112.622	-1112.516	-1112.409	-1112.302	-1112.196	-1112.089
		$N_{máx}$	-611.269	-611.187	-611.105	-611.023	-610.940	-610.858	-610.776
		$Vy_{mín}$	-5.029	-5.257	-5.485	-5.712	-5.940	-6.168	-6.396
		$Vy_{máx}$	6.861	6.861	6.861	6.861	6.861	6.861	6.861
		$Vz_{mín}$	-357.668	-356.794	-355.921	-355.047	-354.173	-353.299	-352.425
		$Vz_{máx}$	-196.223	-195.551	-194.879	-194.206	-193.534	-192.862	-192.190
		$Mt_{mín}$	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
		$Mt_{máx}$	0.69	0.69	0.69	0.69	0.69	0.69	0.69

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Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.188 m	0.376 m	0.564 m	0.752 m	0.941 m	1.129 m
		$My_{mín}$	-544.49	-477.64	-410.99	-344.46	-278.10	-213.11	-149.15
		$My_{máx}$	-295.59	-258.73	-222.02	-185.42	-148.94	-112.61	-76.39
		$Mz_{mín}$	-3.00	-2.03	-1.06	-0.05	0.47	-0.77	-2.02
		$Mz_{máx}$	6.21	4.92	3.66	2.41	1.90	2.79	3.93

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N186/N58	Aço laminado	$N_{mín}$	-1475.962	-1475.892	-1475.821
		$N_{máx}$	-809.131	-809.077	-809.022
		$Vy_{mín}$	-10.322	-10.474	-10.625
		$Vy_{máx}$	7.127	7.127	7.127
		$Vz_{mín}$	-1444.865	-1444.284	-1443.703
		$Vz_{máx}$	-780.626	-780.180	-779.733
		$Mt_{mín}$	-1.17	-1.17	-1.17
		$Mt_{máx}$	0.77	0.77	0.77
		$My_{mín}$	-468.80	-289.29	-113.11
		$My_{máx}$	-251.32	-153.77	-56.27
		$Mz_{mín}$	-2.23	-3.09	-3.95
		$Mz_{máx}$	4.13	5.40	6.69

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N51/N179	Aço laminado	$N_{mín}$	-2303.062	-2303.055	-2303.049
		$N_{máx}$	-1251.706	-1251.701	-1251.696
		$Vy_{mín}$	-3.788	-3.939	-4.090
		$Vy_{máx}$	8.366	8.366	8.366
		$Vz_{mín}$	-312.256	-311.865	-311.475
		$Vz_{máx}$	-136.901	-136.601	-136.301
		$Mt_{mín}$	-27.19	-27.19	-27.19
		$Mt_{máx}$	26.80	26.80	26.80
		$My_{mín}$	45.60	63.48	81.33
		$My_{máx}$	118.92	155.30	191.63

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Mz_{mín}$	-24.18	-25.21	-26.24
		$Mz_{máx}$	26.64	27.11	27.59

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N179/N16	Aço laminado	$N_{mín}$	-2344.433	-2344.423	-2344.413	-2344.403	-2344.393	-2344.383	-2344.373
		$N_{máx}$	-1270.492	-1270.485	-1270.477	-1270.469	-1270.461	-1270.454	-1270.446
		$Vy_{mín}$	-2.436	-2.661	-2.887	-3.113	-3.339	-3.564	-3.790
		$Vy_{máx}$	3.561	3.561	3.561	3.561	3.561	3.561	3.561
		$Vz_{mín}$	-7.340	-6.668	-6.052	-5.470	-4.887	-4.305	-3.787
		$Vz_{máx}$	2.150	2.597	3.043	3.490	3.937	4.384	4.937
		$Mt_{mín}$	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72
		$Mt_{máx}$	0.66	0.66	0.66	0.66	0.66	0.66	0.66
		$My_{mín}$	67.31	68.41	69.42	70.35	71.19	71.95	72.63
		$My_{máx}$	156.26	156.79	157.21	157.53	157.74	157.84	157.83
		$Mz_{mín}$	-29.22	-29.88	-30.54	-31.20	-31.86	-32.52	-33.18
		$Mz_{máx}$	30.73	31.20	31.71	32.27	32.87	33.50	34.19

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N16/N177	Aço laminado	$N_{mín}$	-2344.373	-2344.363	-2344.353	-2344.343	-2344.333	-2344.323	-2344.313
		$N_{máx}$	-1270.446	-1270.438	-1270.431	-1270.423	-1270.415	-1270.408	-1270.400
		$Vy_{mín}$	-3.790	-4.016	-4.242	-4.467	-4.693	-4.919	-5.145
		$Vy_{máx}$	3.561	3.561	3.561	3.561	3.561	3.561	3.561
		$Vz_{mín}$	-3.787	-3.339	-2.891	-2.443	-1.995	-1.547	-1.099
		$Vz_{máx}$	4.937	5.608	6.279	6.950	7.620	8.291	8.962
		$Mt_{mín}$	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72
		$Mt_{máx}$	0.66	0.66	0.66	0.66	0.66	0.66	0.66
		$My_{mín}$	72.63	73.23	73.74	74.17	74.51	74.77	74.95
		$My_{máx}$	157.83	157.71	157.48	157.14	156.70	156.15	155.48
		$Mz_{mín}$	-33.18	-33.85	-34.51	-35.18	-35.84	-36.50	-37.17
		$Mz_{máx}$	34.19	34.91	35.68	36.50	37.35	38.25	39.18

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N177/N49	Aço laminado	$N_{mín}$	-2294.965	-2294.959	-2294.952
		$N_{máx}$	-1245.186	-1245.181	-1245.176
		$Vy_{mín}$	-8.811	-8.962	-9.114
		$Vy_{máx}$	3.636	3.636	3.636
		$Vz_{mín}$	132.409	132.709	133.009
		$Vz_{máx}$	306.610	307.000	307.390
		$Mt_{mín}$	-3.22	-3.22	-3.22
		$Mt_{máx}$	0.99	0.99	0.99
		$My_{mín}$	93.25	75.46	57.64
		$My_{máx}$	191.67	156.35	120.99
		$Mz_{mín}$	-37.23	-37.69	-38.14
		$Mz_{máx}$	39.44	40.55	41.68

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N50/N232	Aço laminado	$N_{mín}$	-2301.545	-2301.538	-2301.531
		$N_{máx}$	-1243.842	-1243.836	-1243.831
		$Vy_{mín}$	-9.601	-9.601	-9.601
		$Vy_{máx}$	2.259	2.410	2.562
		$Vz_{mín}$	-303.799	-303.408	-303.018
		$Vz_{máx}$	-130.001	-129.701	-129.401
		$Mt_{mín}$	-26.59	-26.59	-26.59
		$Mt_{máx}$	27.34	27.34	27.34
		$My_{mín}$	61.01	78.59	96.14
		$My_{máx}$	118.74	153.68	188.57
		$Mz_{mín}$	-28.13	-28.40	-28.67
		$Mz_{máx}$	23.25	24.42	25.59

Envoltórias dos esforços em barras								
Barra	Tipo de combinação	Esforço	Posições na barra					
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N232/N169	Aço laminado	$N_{mín}$	-2340.879	-2340.869	-2340.859	-2340.849	-2340.839	-2340.829	-2340.819

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Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
		$N_{máx}$	-1264.949	-1264.942	-1264.934	-1264.926	-1264.918	-1264.911	-1264.903
		$Vy_{mín}$	-4.920	-4.920	-4.920	-4.920	-4.920	-4.920	-4.920
		$Vy_{máx}$	0.945	1.170	1.396	1.622	1.848	2.073	2.299
		$Vz_{mín}$	-6.842	-6.260	-5.678	-5.096	-4.513	-3.931	-3.349
		$Vz_{máx}$	2.393	2.841	3.288	3.736	4.184	4.632	5.080
		$Mt_{mín}$	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
		$Mt_{máx}$	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		$My_{mín}$	79.64	79.72	79.72	79.63	79.46	79.21	78.87
		$My_{máx}$	155.94	156.34	156.62	156.79	156.86	156.81	156.66
		$Mz_{mín}$	-31.88	-31.99	-32.15	-32.37	-32.64	-32.94	-33.29
		$Mz_{máx}$	28.60	29.43	30.27	31.13	31.99	32.84	33.70

Envoltórias dos esforços em barras									
Barra	Tipo de combinação	Esforço	Posições na barra						
			0.000 m	0.186 m	0.373 m	0.559 m	0.746 m	0.932 m	1.119 m
N169/N233	Aço laminado	$N_{mín}$	-2340.819	-2340.809	-2340.799	-2340.789	-2340.779	-2340.769	-2340.759
		$N_{máx}$	-1264.903	-1264.895	-1264.888	-1264.880	-1264.872	-1264.865	-1264.857
		$Vy_{mín}$	-4.920	-4.920	-4.920	-4.920	-4.920	-4.920	-4.920
		$Vy_{máx}$	2.299	2.525	2.751	2.976	3.202	3.428	3.654
		$Vz_{mín}$	-3.349	-2.885	-2.437	-1.989	-1.541	-1.093	-0.645
		$Vz_{máx}$	5.080	5.647	6.229	6.811	7.393	7.976	8.558
		$Mt_{mín}$	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
		$Mt_{máx}$	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		$My_{mín}$	78.87	78.45	77.95	77.36	76.69	75.94	75.10
		$My_{máx}$	156.66	156.40	156.03	155.56	154.97	154.28	153.47
		$Mz_{mín}$	-33.29	-33.68	-34.11	-34.59	-35.11	-35.66	-36.27
		$Mz_{máx}$	33.70	34.56	35.42	36.28	37.14	37.99	38.85

Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
N233/N48	Aço laminado	$N_{mín}$	-2289.372	-2289.365	-2289.359
		$N_{máx}$	-1242.357	-1242.352	-1242.347
		$Vy_{mín}$	-5.017	-5.017	-5.017
		$Vy_{máx}$	7.328	7.479	7.631
		$Vz_{mín}$	134.211	134.511	134.811

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Envoltórias dos esforços em barras					
Barra	Tipo de combinação	Esforço	Posições na barra		
			0.000 m	0.125 m	0.250 m
		$Vz_{máx}$	313.555	313.946	314.336
		$Mt_{mín}$	-0.71	-0.71	-0.71
		$Mt_{máx}$	2.61	2.61	2.61
		$My_{mín}$	90.88	74.09	57.25
		$My_{máx}$	191.99	155.44	118.84
		$Mz_{mín}$	-36.42	-37.31	-38.21
		$Mz_{máx}$	38.87	39.45	40.04

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N88/N42	Aço laminado	$N_{mín}$	-24.209	-24.202	-24.195	-24.187	-24.180	-24.172	-24.165	-24.158	-24.150
		$N_{máx}$	1.829	1.834	1.838	1.843	1.848	1.853	1.858	1.863	1.868
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N88/N43	Aço laminado	$N_{mín}$	-29.736	-29.729	-29.722	-29.714	-29.707	-29.700	-29.692	-29.685	-29.677
		$N_{máx}$	0.031	0.036	0.041	0.046	0.051	0.056	0.061	0.066	0.071
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N89/N45	Aço laminado	$N_{mín}$	1.580	1.585	1.590	1.594	1.599	1.604	1.609	1.614	1.619
		$N_{máx}$	14.003	14.010	14.018	14.025	14.032	14.040	14.047	14.054	14.062
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N89/N44	Aço laminado	$N_{mín}$	-0.162	-0.157	-0.152	-0.147	-0.142	-0.137	-0.132	-0.127	-0.123
		$N_{máx}$	6.757	6.765	6.772	6.779	6.787	6.794	6.802	6.809	6.816
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N90/N47	Aço laminado	$N_{mín}$	-10.230	-10.225	-10.220	-10.215	-10.210	-10.205	-10.200	-10.196	-10.191
		$N_{máx}$	11.395	11.402	11.410	11.417	11.424	11.432	11.439	11.446	11.454
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N90/N46	Aço laminado	$N_{mín}$	-11.699	-11.694	-11.689	-11.684	-11.680	-11.675	-11.670	-11.665	-11.660
		$N_{máx}$	5.146	5.153	5.160	5.168	5.175	5.182	5.190	5.197	5.204
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N91/N48	Aço laminado	$N_{mín}$	-15.290	-15.285	-15.281	-15.276	-15.271	-15.266	-15.261	-15.256	-15.251
		$N_{máx}$	0.354	0.361	0.369	0.376	0.383	0.391	0.398	0.405	0.413
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.65	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N91/N49	Aço laminado	$N_{mín}$	-19.718	-19.711	-19.704	-19.696	-19.689	-19.682	-19.674	-19.667	-19.660
		$N_{máx}$	-3.928	-3.923	-3.918	-3.913	-3.908	-3.903	-3.898	-3.893	-3.888
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
N50/N92	Aço laminado	$N_{mín}$	-23.571	-23.569	-23.568	-23.566	-23.565	-23.564	-23.562	-23.561	-23.559
		$N_{máx}$	-7.031	-7.030	-7.029	-7.028	-7.027	-7.026	-7.025	-7.024	-7.023
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.60	0.64	0.60	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
N51/N92	Aço laminado	$N_{mín}$	-21.999	-21.998	-21.997	-21.995	-21.994	-21.993	-21.992	-21.990	-21.989
		$N_{máx}$	-8.839	-8.838	-8.837	-8.836	-8.835	-8.834	-8.833	-8.832	-8.831
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.40	1.50	1.40	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N94/N50	Aço laminado	$N_{mín}$	0.787	0.794	0.801	0.808	0.814	0.821	0.828	0.835	0.842
		$N_{máx}$	14.383	14.393	14.403	14.414	14.424	14.434	14.444	14.455	14.465
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N94/N51	Aço laminado	$N_{mín}$	6.321	6.327	6.334	6.341	6.348	6.355	6.361	6.368	6.375
		$N_{máx}$	24.212	24.222	24.233	24.243	24.253	24.263	24.273	24.284	24.294
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N95/N52	Aço laminado	$N_{mín}$	-29.104	-29.093	-29.083	-29.073	-29.063	-29.053	-29.042	-29.032	-29.022
		$N_{máx}$	-2.403	-2.396	-2.389	-2.382	-2.375	-2.369	-2.362	-2.355	-2.348
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N95/N53	Aço laminado	$N_{mín}$	-22.090	-22.080	-22.070	-22.060	-22.049	-22.039	-22.029	-22.019	-22.009
		$N_{máx}$	6.010	6.016	6.023	6.030	6.037	6.044	6.050	6.057	6.064
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N97/N54	Aço laminado	$N_{mín}$	-14.484	-14.475	-14.466	-14.457	-14.448	-14.439	-14.430	-14.422	-14.413
		$N_{máx}$	-5.554	-5.547	-5.540	-5.533	-5.527	-5.520	-5.513	-5.506	-5.499
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N97/N55	Aço laminado	$N_{mín}$	-16.302	-16.292	-16.281	-16.271	-16.261	-16.251	-16.241	-16.230	-16.220
		$N_{máx}$	-2.230	-2.223	-2.216	-2.210	-2.203	-2.196	-2.189	-2.182	-2.176
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N96/N33	Aço laminado	$N_{mín}$	-29.443	-29.432	-29.422	-29.412	-29.402	-29.392	-29.381	-29.371	-29.361

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
		$N_{máx}$	7.391	7.398	7.405	7.411	7.418	7.425	7.432	7.439	7.445
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.857	-0.642	-0.428	-0.214	0.000	0.143	0.286	0.428	0.571
		$Vz_{máx}$	-0.571	-0.428	-0.286	-0.143	0.000	0.214	0.428	0.642	0.857
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.44	0.75	0.94	1.00	0.94	0.75	0.44	0.00
		$My_{máx}$	0.00	0.66	1.12	1.41	1.50	1.41	1.12	0.66	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N96/N58	Aço laminado	$N_{mín}$	-27.171	-27.161	-27.151	-27.140	-27.130	-27.120	-27.110	-27.100	-27.089
		$N_{máx}$	5.767	5.774	5.780	5.787	5.794	5.801	5.808	5.814	5.821
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.688	-0.516	-0.344	-0.172	0.000	0.115	0.229	0.344	0.459
		$Vz_{máx}$	-0.459	-0.344	-0.229	-0.115	0.000	0.172	0.344	0.516	0.688
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.28	0.48	0.61	0.65	0.61	0.48	0.28	0.00
		$My_{máx}$	0.00	0.42	0.73	0.91	0.97	0.91	0.73	0.42	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N79/N37	Aço laminado	$N_{mín}$	-45.313	-45.308	-45.304	-45.299	-45.295	-45.290	-45.286	-45.281	-45.277
		$N_{máx}$	57.057	57.060	57.063	57.066	57.069	57.072	57.075	57.078	57.081
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.422	-0.316	-0.211	-0.105	0.000	0.070	0.141	0.211	0.281
		$Vz_{máx}$	-0.281	-0.211	-0.141	-0.070	0.000	0.105	0.211	0.316	0.422
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		$My_{máx}$	0.00	0.26	0.45	0.56	0.59	0.56	0.45	0.26	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N79/N25	Aço laminado	$N_{mín}$	-52.833	-52.828	-52.824	-52.819	-52.815	-52.810	-52.806	-52.801	-52.797
		$N_{máx}$	60.593	60.596	60.599	60.602	60.605	60.608	60.611	60.614	60.617
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.525	-0.394	-0.263	-0.131	0.000	0.088	0.175	0.263	0.350
		$Vz_{máx}$	-0.350	-0.263	-0.175	-0.088	0.000	0.131	0.263	0.394	0.525
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		$My_{máx}$	0.00	0.40	0.69	0.86	0.92	0.86	0.69	0.40	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N78/N8	Aço laminado	$N_{mín}$	-103.380	-103.375	-103.371	-103.366	-103.362	-103.357	-103.353	-103.348	-103.344
		$N_{máx}$	117.127	117.130	117.133	117.136	117.139	117.142	117.145	117.148	117.151
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.422	-0.316	-0.211	-0.105	0.000	0.070	0.141	0.211	0.281
		$Vz_{máx}$	-0.281	-0.211	-0.141	-0.070	0.000	0.105	0.211	0.316	0.422
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		$My_{máx}$	0.00	0.26	0.45	0.56	0.59	0.56	0.45	0.26	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.703 m	1.406 m	2.110 m	2.813 m	3.516 m	4.219 m	4.922 m	5.625 m
N80/N9	Aço laminado	$N_{mín}$	-36.172	-36.168	-36.163	-36.159	-36.154	-36.150	-36.145	-36.141	-36.136
		$N_{máx}$	55.664	55.667	55.670	55.673	55.676	55.679	55.682	55.685	55.688
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.422	-0.316	-0.211	-0.105	0.000	0.070	0.141	0.211	0.281
		$Vz_{máx}$	-0.281	-0.211	-0.141	-0.070	0.000	0.105	0.211	0.316	0.422
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		$My_{máx}$	0.00	0.26	0.45	0.56	0.59	0.56	0.45	0.26	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N78/N2	Aço laminado	$N_{mín}$	-117.828	-117.824	-117.819	-117.815	-117.810	-117.806	-117.801	-117.797	-117.792
		$N_{máx}$	117.502	117.505	117.508	117.511	117.514	117.517	117.520	117.523	117.526
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.525	-0.394	-0.263	-0.131	0.000	0.088	0.175	0.263	0.350
		$Vz_{máx}$	-0.350	-0.263	-0.175	-0.088	0.000	0.131	0.263	0.394	0.525
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		$My_{máx}$	0.00	0.40	0.69	0.86	0.92	0.86	0.69	0.40	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
N80/N3	Aço laminado	$N_{mín}$	-50.963	-50.959	-50.954	-50.950	-50.945	-50.941	-50.936	-50.932	-50.927
		$N_{máx}$	43.172	43.175	43.178	43.181	43.184	43.187	43.190	43.193	43.196
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.525	-0.394	-0.263	-0.131	0.000	0.088	0.175	0.263	0.350
		$Vz_{máx}$	-0.350	-0.263	-0.175	-0.088	0.000	0.131	0.263	0.394	0.525

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Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.875 m	1.750 m	2.625 m	3.500 m	4.375 m	5.250 m	6.125 m	7.000 m
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		$My_{máx}$	0.00	0.40	0.69	0.86	0.92	0.86	0.69	0.40	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N84/N11	Aço laminado	$N_{mín}$	-43.781	-43.775	-43.768	-43.762	-43.756	-43.750	-43.743	-43.737	-43.731
		$N_{máx}$	46.393	46.397	46.401	46.406	46.410	46.414	46.418	46.422	46.426
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.525	-0.394	-0.263	-0.131	0.000	0.088	0.175	0.263	0.350
		$Vz_{máx}$	-0.350	-0.263	-0.175	-0.088	0.000	0.131	0.263	0.394	0.525
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		$My_{máx}$	0.00	0.40	0.69	0.86	0.92	0.86	0.69	0.40	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras											
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N86/N12	Aço laminado	$N_{mín}$	-110.106	-110.100	-110.094	-110.087	-110.081	-110.075	-110.069	-110.062	-110.056
		$N_{máx}$	106.668	106.672	106.676	106.680	106.685	106.689	106.693	106.697	106.701
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.525	-0.394	-0.263	-0.131	0.000	0.088	0.175	0.263	0.350
		$Vz_{máx}$	-0.350	-0.263	-0.175	-0.088	0.000	0.131	0.263	0.394	0.525
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		$My_{máx}$	0.00	0.40	0.69	0.86	0.92	0.86	0.69	0.40	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.876 m	1.751 m	2.627 m	3.502 m	4.378 m	5.253 m	6.129 m	7.004 m
N85/N38	Aço laminado	$N_{mín}$	-49.335	-49.329	-49.323	-49.316	-49.310	-49.304	-49.298	-49.291	-49.285
		$N_{máx}$	53.723	53.727	53.731	53.736	53.740	53.744	53.748	53.752	53.757
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.525	-0.394	-0.263	-0.131	0.000	0.088	0.175	0.263	0.350
		$Vz_{máx}$	-0.350	-0.263	-0.175	-0.088	0.000	0.131	0.263	0.394	0.525
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.27	0.46	0.57	0.61	0.57	0.46	0.27	0.00
		$My_{máx}$	0.00	0.40	0.69	0.86	0.92	0.86	0.69	0.40	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N84/N4	Aço laminado	$N_{mín}$	-42.519	-42.513	-42.506	-42.500	-42.494	-42.488	-42.481	-42.475	-42.469
		$N_{máx}$	46.381	46.385	46.389	46.393	46.397	46.402	46.406	46.410	46.414
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.422	-0.316	-0.211	-0.105	0.000	0.070	0.141	0.211	0.281
		$Vz_{máx}$	-0.281	-0.211	-0.141	-0.070	0.000	0.105	0.211	0.316	0.422
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		$My_{máx}$	0.00	0.26	0.45	0.56	0.59	0.56	0.45	0.26	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra								
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N86/N5	Aço laminado	$N_{mín}$	-97.622	-97.616	-97.610	-97.603	-97.597	-97.591	-97.584	-97.578	-97.572
		$N_{máx}$	108.858	108.862	108.866	108.870	108.875	108.879	108.883	108.887	108.891
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.422	-0.316	-0.211	-0.105	0.000	0.070	0.141	0.211	0.281

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
		$Vz_{máx}$	-0.281	-0.211	-0.141	-0.070	0.000	0.105	0.211	0.316	0.422
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		$My_{máx}$	0.00	0.26	0.45	0.56	0.59	0.56	0.45	0.26	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.704 m	1.408 m	2.111 m	2.815 m	3.519 m	4.223 m	4.926 m	5.630 m
N85/N28	Aço laminado	$N_{mín}$	-43.023	-43.017	-43.010	-43.004	-42.998	-42.992	-42.985	-42.979	-42.973
		$N_{máx}$	52.111	52.115	52.119	52.123	52.128	52.132	52.136	52.140	52.144
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.422	-0.316	-0.211	-0.105	0.000	0.070	0.141	0.211	0.281
		$Vz_{máx}$	-0.281	-0.211	-0.141	-0.070	0.000	0.105	0.211	0.316	0.422
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.17	0.30	0.37	0.40	0.37	0.30	0.17	0.00
		$My_{máx}$	0.00	0.26	0.45	0.56	0.59	0.56	0.45	0.26	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
N4/N82	Aço laminado	$N_{mín}$	-41.848	-41.840	-41.833	-41.826	-41.819	-41.812	-41.804	-41.797	-41.790
		$N_{máx}$	58.725	58.736	58.746	58.757	58.768	58.779	58.790	58.800	58.811
		$Vy_{mín}$	-22.147	-22.147	-22.147	-22.147	-22.147	-22.147	-22.147	-22.147	-22.147
		$Vy_{máx}$	4.483	4.483	4.483	4.483	4.483	4.483	4.483	4.483	4.483
		$Vz_{mín}$	-47.352	-45.745	-44.138	-42.530	-40.923	-39.439	-38.367	-37.296	-36.224
		$Vz_{máx}$	5.847	6.918	7.990	9.061	10.133	11.327	12.934	14.541	16.148
		$Mt_{mín}$	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41
		$Mt_{máx}$	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
		$My_{mín}$	-162.34	-121.63	-82.83	-46.00	-14.73	15.35	20.99	9.78	-2.50
		$My_{máx}$	68.53	62.95	56.93	50.54	47.37	51.00	72.60	93.10	124.12
		$Mz_{mín}$	-83.56	-64.20	-44.88	-25.73	-9.16	7.19	12.93	9.01	5.09

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		$Mz_{máx}$	36.45	32.53	28.66	24.96	23.84	27.44	40.92	54.40	71.38

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
N82/N3	Aço laminado	$N_{mín}$	15.396	15.403	15.411	15.418	15.425	15.432	15.439	15.447	15.454
		$N_{máx}$	40.560	40.570	40.579	40.588	40.598	40.607	40.617	40.626	40.635
		$Vy_{mín}$	-2.978	-2.978	-2.978	-2.978	-2.978	-2.978	-2.978	-2.978	-2.978
		$Vy_{máx}$	32.071	32.071	32.071	32.071	32.071	32.071	32.071	32.071	32.071
		$Vz_{mín}$	-10.397	-9.105	-7.814	-6.928	-6.067	-5.206	-4.345	-3.485	-2.624
		$Vz_{máx}$	51.852	52.713	53.574	54.839	56.130	57.421	58.713	60.004	61.295
		$Mt_{mín}$	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		$Mt_{máx}$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		$My_{mín}$	32.97	39.35	45.12	21.12	-11.12	-43.97	-80.97	-122.17	-164.78
		$My_{máx}$	161.56	134.29	106.24	77.40	66.19	63.11	62.67	64.92	67.07
		$Mz_{mín}$	22.08	24.17	26.27	12.31	-6.21	-24.73	-45.19	-67.52	-90.06
		$Mz_{máx}$	97.74	80.11	62.48	44.86	36.73	34.81	34.83	36.73	38.82

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.703 m	1.405 m	2.108 m	2.810 m	3.513 m	4.215 m	4.918 m	5.621 m
N11/N82	Aço laminado	$N_{mín}$	-20.835	-20.828	-20.821	-20.814	-20.806	-20.799	-20.792	-20.785	-20.778
		$N_{máx}$	6.651	6.662	6.672	6.683	6.694	6.705	6.716	6.726	6.737
		$Vy_{mín}$	-32.754	-32.754	-32.754	-32.754	-32.754	-32.754	-32.754	-32.754	-32.754
		$Vy_{máx}$	4.428	4.428	4.428	4.428	4.428	4.428	4.428	4.428	4.428
		$Vz_{mín}$	-61.605	-60.314	-59.023	-57.731	-56.440	-55.149	-53.867	-53.007	-52.146
		$Vz_{máx}$	3.474	4.334	5.195	6.056	6.917	7.777	8.648	9.939	11.230
		$Mt_{mín}$	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
		$Mt_{máx}$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		$My_{mín}$	-165.07	-122.24	-80.78	-44.01	-10.88	21.65	45.20	38.83	31.85
		$My_{máx}$	70.73	67.98	65.09	65.39	67.81	78.56	107.02	134.70	161.59
		$Mz_{mín}$	-91.15	-68.14	-45.33	-25.14	-6.03	13.08	26.61	23.49	20.38
		$Mz_{máx}$	45.27	42.16	39.24	38.96	39.75	46.98	63.86	80.74	97.62

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
N82/N9	Aço laminado	$N_{mín}$	-17.192	-17.185	-17.178	-17.171	-17.163	-17.156	-17.149	-17.142	-17.135

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.875 m	1.749 m	2.624 m	3.498 m	4.373 m	5.247 m	6.122 m	6.996 m
		$N_{máx}$	65.438	65.448	65.459	65.470	65.481	65.492	65.502	65.513	65.524
		$Vy_{mín}$	-5.609	-5.609	-5.609	-5.609	-5.609	-5.609	-5.609	-5.609	-5.609
		$Vy_{máx}$	21.953	21.953	21.953	21.953	21.953	21.953	21.953	21.953	21.953
		$Vz_{mín}$	-15.557	-13.950	-12.343	-10.736	-9.516	-8.445	-7.373	-6.302	-5.230
		$Vz_{máx}$	34.386	35.458	36.529	37.601	39.060	40.667	42.274	43.881	45.489
		$Mt_{mín}$	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39
		$Mt_{máx}$	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
		$My_{mín}$	-0.62	11.09	21.75	16.53	-12.13	-41.73	-76.55	-113.56	-152.64
		$My_{máx}$	120.75	92.54	73.08	52.39	47.65	50.24	55.71	61.02	66.07
		$Mz_{mín}$	3.39	8.30	13.20	8.38	-8.04	-24.46	-42.77	-61.78	-80.89
		$Mz_{máx}$	72.70	54.53	42.16	29.78	26.96	29.09	33.10	37.82	42.63

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.591 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N96/N97	Aço laminado	$N_{mín}$	8.705	8.714	8.718	8.727	8.736	8.745	8.754	8.758	8.767
		$N_{máx}$	14.164	14.177	14.184	14.197	14.210	14.224	14.237	14.243	14.257
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.217	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.145	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.12	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.18	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
N97/N95	Aço laminado	$N_{mín}$	9.583	9.592	9.601	9.605	9.614	9.623	9.632	9.636	9.645
		$N_{máx}$	15.517	15.531	15.544	15.551	15.564	15.577	15.590	15.597	15.610
		$Vy_{mín}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vy_{máx}$	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		$Vz_{mín}$	-0.380	-0.271	-0.163	-0.109	0.000	0.072	0.145	0.181	0.253
		$Vz_{máx}$	-0.253	-0.181	-0.109	-0.072	0.000	0.109	0.217	0.271	0.380
		$Mt_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Envoltórias dos esforços em barras										
Barra	Tipo de combinação	Esforço	Posições na barra							
			0.000 m	0.394 m	0.788 m	0.985 m	1.379 m	1.773 m	2.166 m	2.363 m	2.757 m
		$Mt_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$My_{mín}$	0.00	0.09	0.14	0.16	0.17	0.16	0.12	0.09	0.00
		$My_{máx}$	0.00	0.13	0.21	0.24	0.26	0.24	0.18	0.13	0.00
		$Mz_{mín}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		$Mz_{máx}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2.1.2. Flechas

Referências:

Pos.: Valor da coordenada sobre o eixo 'X' local do grupo de flecha no ponto onde se produz o valor péssimo da flecha.
L.: Distância entre dois pontos de corte consecutivos da deformada com a reta que une os nós extremos do grupo de flecha.

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N1/N2	2.748 2.748	2.94 L/(>1000)	2.498 2.498	1.63 L/(>1000)	2.748 2.748	5.69 L/(>1000)	2.498 2.498	0.08 L/(>1000)
N2/N3	3.372 3.372	0.51 L/(>1000)	2.998 2.998	1.28 L/(>1000)	2.748 2.623	0.88 L/(>1000)	2.998 2.998	0.03 L/(>1000)
N5/N4	3.384 3.384	0.62 L/(>1000)	3.007 3.007	1.23 L/(>1000)	3.007 3.007	0.95 L/(>1000)	4.700 4.700	0.02 L/(>1000)
N6/N5	2.757 2.757	2.80 L/(>1000)	2.507 2.507	1.52 L/(>1000)	2.757 2.757	5.35 L/(>1000)	2.507 2.507	0.10 L/(>1000)
N7/N8	2.748 2.748	2.97 L/(>1000)	2.498 2.498	1.52 L/(>1000)	2.748 2.748	5.68 L/(>1000)	2.498 2.498	0.09 L/(>1000)
N8/N9	3.747 3.747	0.60 L/(>1000)	2.998 2.998	1.23 L/(>1000)	3.747 3.559	1.09 L/(>1000)	4.683 4.683	0.02 L/(>1000)
N12/N11	3.195 3.195	0.58 L/(>1000)	3.007 3.007	1.26 L/(>1000)	3.572 3.572	1.11 L/(>1000)	3.007 3.007	0.05 L/(>1000)
N13/N12	2.757 2.757	2.77 L/(>1000)	2.507 2.507	1.51 L/(>1000)	2.757 2.757	5.35 L/(>1000)	2.507 2.507	0.08 L/(>1000)
N14/N15	3.122 3.122	0.18 L/(>1000)	2.560 2.560	1.29 L/(>1000)	3.309 3.309	0.33 L/(>1000)	4.371 4.371	0.05 L/(>1000)
N18/N17	3.322 3.322	0.56 L/(>1000)	2.569 2.569	1.27 L/(>1000)	3.510 3.322	0.90 L/(>1000)	4.386 4.386	0.04 L/(>1000)

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N19/N20	3.309 3.309	0.19 L/(>1000)	2.560 2.560	1.26 L/(>1000)	3.309 3.309	0.33 L/(>1000)	4.371 4.371	0.03 L/(>1000)
N22/N21	3.510 3.510	0.46 L/(>1000)	2.569 2.569	1.29 L/(>1000)	3.510 3.510	0.92 L/(>1000)	4.386 4.386	0.06 L/(>1000)
N1/N40	1.960 1.960	0.28 L/(>1000)	1.960 1.960	1.12 L/(>1000)	1.568 3.136	0.33 L/(>1000)	2.352 2.352	0.03 L/(>1000)
N188/N170	2.619 2.619	0.21 L/(>1000)	1.871 1.871	1.05 L/(>1000)	2.619 2.619	0.18 L/(>1000)	1.871 1.871	0.05 L/(>1000)
N189/N171	3.069 3.069	1.15 L/(>1000)	2.686 2.686	2.14 L/(>1000)	3.069 3.069	1.26 L/(>1000)	2.686 2.686	0.12 L/(>1000)
N190/N172	2.619 2.619	0.66 L/(>1000)	4.865 4.865	1.19 L/(>1000)	2.619 2.619	0.64 L/(>1000)	1.497 1.497	0.06 L/(>1000)
N191/N173	2.686 2.686	0.70 L/(>1000)	1.535 1.535	1.16 L/(>1000)	2.686 2.686	0.73 L/(>1000)	1.535 1.535	0.06 L/(>1000)
N192/N174	3.368 3.368	0.61 L/(>1000)	4.490 4.490	1.01 L/(>1000)	3.368 3.368	0.71 L/(>1000)	1.497 1.497	0.06 L/(>1000)
N193/N176	2.686 2.686	0.58 L/(>1000)	1.535 1.535	0.91 L/(>1000)	2.686 2.302	0.88 L/(>1000)	1.535 1.535	0.07 L/(>1000)
N194/N175	2.245 2.245	6.76 L/886.1	4.490 4.490	0.60 L/(>1000)	2.619 2.245	9.77 L/(>1000)	1.497 1.497	0.05 L/(>1000)
N195/N178	2.312 2.312	6.75 L/913.6	1.541 1.541	0.48 L/(>1000)	2.312 2.312	9.56 L/(>1000)	1.926 2.312	0.06 L/(>1000)
N196/N177	3.110 3.110	0.76 L/(>1000)	4.276 4.276	0.22 L/(>1000)	3.110 3.110	1.08 L/(>1000)	2.721 2.721	0.01 L/(>1000)
N197/N179	3.482 3.482	3.48 L/(>1000)	4.256 4.256	0.26 L/(>1000)	3.482 3.482	5.98 L/(>1000)	4.256 4.256	0.08 L/(>1000)
N198/N180	1.936 1.936	2.90 L/(>1000)	1.548 1.548	0.50 L/(>1000)	1.548 2.710	3.52 L/(>1000)	1.548 1.548	0.10 L/(>1000)
N199/N181	2.234 2.234	4.85 L/(>1000)	4.468 4.468	0.61 L/(>1000)	2.234 2.234	7.15 L/(>1000)	1.489 1.489	0.10 L/(>1000)
N200/N182	2.699 2.699	0.49 L/(>1000)	1.542 1.542	0.89 L/(>1000)	2.699 2.313	0.71 L/(>1000)	4.626 4.626	0.07 L/(>1000)
N201/N183	3.351 3.351	0.63 L/(>1000)	4.468 4.468	1.02 L/(>1000)	2.979 3.351	0.73 L/(>1000)	4.468 4.468	0.08 L/(>1000)
N202/N184	2.699	0.71	1.542	1.11	2.699	0.76	4.626	0.08

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	2.699	L/(>1000)	1.542	L/(>1000)	2.699	L/(>1000)	4.626	L/(>1000)
N203/N185	2.607 2.607	0.57 L/(>1000)	1.117 1.117	1.08 L/(>1000)	2.607 2.607	0.62 L/(>1000)	4.468 4.468	0.07 L/(>1000)
N204/N186	3.084 3.084	1.10 L/(>1000)	4.626 4.626	1.09 L/(>1000)	3.084 3.084	1.09 L/(>1000)	4.626 4.626	0.07 L/(>1000)
N205/N187	2.607 2.607	0.18 L/(>1000)	1.862 1.862	0.98 L/(>1000)	2.607 2.607	0.21 L/(>1000)	1.489 1.489	0.04 L/(>1000)
N6/N57	2.369 2.369	0.51 L/(>1000)	1.974 1.974	1.17 L/(>1000)	1.579 1.579	0.27 L/(>1000)	1.974 1.974	0.06 L/(>1000)
N40/N23	0.625 0.625	0.02 L/(>1000)	0.250 0.250	0.15 L/(>1000)	0.625 0.625	0.03 L/(>1000)	0.250 0.250	0.01 L/(>1000)
N23/N43	0.375 0.375	0.00 L/(>1000)	0.936 0.936	0.24 L/(>1000)	0.375 0.375	0.00 L/(>1000)	0.936 0.936	0.01 L/(>1000)
N43/N14	0.625 0.625	0.01 L/(>1000)	0.250 0.250	0.23 L/(>1000)	0.625 0.625	0.02 L/(>1000)	0.250 0.250	0.01 L/(>1000)
N58/N18	0.626 0.626	0.01 L/(>1000)	0.250 0.250	0.21 L/(>1000)	0.626 0.626	0.03 L/(>1000)	0.250 0.250	0.01 L/(>1000)
N30/N58	0.376 0.376	0.00 L/(>1000)	1.129 1.129	0.21 L/(>1000)	0.376 0.376	0.00 L/(>1000)	0.941 0.941	0.01 L/(>1000)
N57/N30	0.626 0.626	0.02 L/(>1000)	0.250 0.250	0.15 L/(>1000)	0.626 0.626	0.03 L/(>1000)	0.250 0.250	0.01 L/(>1000)
N41/N34	0.625 0.625	0.02 L/(>1000)	0.250 0.250	0.15 L/(>1000)	0.625 0.625	0.03 L/(>1000)	0.250 0.250	0.00 L/(>1000)
N34/N42	0.375 0.375	0.00 L/(>1000)	1.124 1.124	0.21 L/(>1000)	0.375 0.375	0.00 L/(>1000)	0.936 0.936	0.01 L/(>1000)
N42/N19	0.625 0.625	0.01 L/(>1000)	0.250 0.250	0.21 L/(>1000)	0.625 0.625	0.02 L/(>1000)	0.250 0.250	0.01 L/(>1000)
N33/N22	0.626 0.626	0.01 L/(>1000)	0.250 0.250	0.21 L/(>1000)	0.626 0.626	0.03 L/(>1000)	0.250 0.250	0.01 L/(>1000)
N31/N33	0.376 0.376	0.00 L/(>1000)	1.129 1.129	0.21 L/(>1000)	0.376 0.376	0.00 L/(>1000)	1.129 1.129	0.01 L/(>1000)
N56/N31	0.626 0.626	0.02 L/(>1000)	0.250 0.250	0.15 L/(>1000)	0.626 0.626	0.03 L/(>1000)	0.250 0.250	0.01 L/(>1000)
N216/N231	1.936 1.936	4.63 L/(>1000)	1.548 1.548	0.48 L/(>1000)	1.936 3.097	5.77 L/(>1000)	2.710 4.645	0.08 L/(>1000)

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N217/N230	2.234 2.234	6.70 L/889.6	4.468 4.468	0.59 L/(>1000)	2.607 2.234	9.70 L/(>1000)	1.489 1.489	0.04 L/(>1000)
N218/N229	2.699 2.699	0.56 L/(>1000)	1.542 1.542	0.91 L/(>1000)	2.699 1.928	0.85 L/(>1000)	1.542 1.542	0.07 L/(>1000)
N219/N228	3.351 3.351	0.64 L/(>1000)	4.468 4.468	1.00 L/(>1000)	2.979 3.351	0.72 L/(>1000)	1.489 1.489	0.06 L/(>1000)
N220/N227	2.699 2.699	0.69 L/(>1000)	1.542 1.542	1.13 L/(>1000)	2.699 2.699	0.70 L/(>1000)	1.542 1.542	0.06 L/(>1000)
N221/N226	3.351 3.351	0.67 L/(>1000)	1.117 1.117	1.09 L/(>1000)	3.351 3.351	0.65 L/(>1000)	1.489 1.489	0.06 L/(>1000)
N222/N225	3.084 3.084	1.08 L/(>1000)	4.626 4.626	1.07 L/(>1000)	3.084 3.084	1.11 L/(>1000)	1.542 5.012	0.05 L/(>1000)
N223/N224	2.979 2.979	0.23 L/(>1000)	1.862 1.862	0.99 L/(>1000)	2.607 2.607	0.21 L/(>1000)	1.862 1.862	0.05 L/(>1000)
N13/N56	2.764 1.579	0.26 L/(>1000)	1.974 1.974	1.17 L/(>1000)	1.579 2.764	0.27 L/(>1000)	1.974 1.974	0.02 L/(>1000)
N7/N41	2.352 2.352	0.53 L/(>1000)	1.960 1.960	1.13 L/(>1000)	1.568 1.568	0.33 L/(>1000)	1.960 1.960	0.08 L/(>1000)
N206/N241	2.619 2.619	0.16 L/(>1000)	1.871 1.871	0.97 L/(>1000)	2.619 2.619	0.19 L/(>1000)	1.871 1.871	0.04 L/(>1000)
N207/N240	3.069 3.069	1.10 L/(>1000)	4.604 4.604	1.10 L/(>1000)	3.069 2.686	1.09 L/(>1000)	4.604 4.604	0.07 L/(>1000)
N208/N239	2.619 2.619	0.62 L/(>1000)	4.865 1.123	1.08 L/(>1000)	2.619 2.619	0.67 L/(>1000)	4.490 4.490	0.06 L/(>1000)
N209/N238	2.686 2.686	0.72 L/(>1000)	1.151 1.151	1.10 L/(>1000)	2.686 2.686	0.78 L/(>1000)	4.604 4.604	0.07 L/(>1000)
N210/N237	3.368 3.368	0.61 L/(>1000)	4.490 4.490	1.03 L/(>1000)	3.368 3.368	0.72 L/(>1000)	4.490 4.490	0.08 L/(>1000)
N211/N236	2.686 2.686	0.58 L/(>1000)	1.535 1.535	0.88 L/(>1000)	2.686 1.535	0.82 L/(>1000)	4.604 4.604	0.07 L/(>1000)
N212/N235	2.245 2.245	5.33 L/(>1000)	4.490 4.490	0.62 L/(>1000)	2.619 2.245	8.08 L/(>1000)	1.497 1.497	0.09 L/(>1000)
N213/N234	2.312 2.312	5.15 L/(>1000)	1.541 1.541	0.50 L/(>1000)	2.312 2.312	7.70 L/(>1000)	1.541 1.541	0.10 L/(>1000)
N214/N233	3.110	0.87	4.276	0.26	3.110	1.16	4.276	0.05

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	3.110	L/(>1000)	4.276	L/(>1000)	3.110	L/(>1000)	4.276	L/(>1000)
N215/N232	3.482 3.482	3.42 L/(>1000)	4.256 4.256	0.22 L/(>1000)	3.869 3.869	5.85 L/(>1000)	4.256 4.256	0.03 L/(>1000)
N1/N7	5.725 5.725	0.33 L/(>1000)	5.725 5.725	14.17 L/808.3	5.725 -	0.00 L/(>1000)	5.313 -	0.00 L/(>1000)
N24/N36	5.725 5.725	2.10 L/(>1000)	5.725 5.725	27.03 L/423.6	5.725 5.725	1.72 L/(>1000)	8.050 8.050	0.13 L/(>1000)
N2/N8	5.725 5.725	1.82 L/(>1000)	5.725 5.725	27.03 L/423.6	5.519 5.519	0.27 L/(>1000)	8.050 8.050	0.06 L/(>1000)
N25/N37	5.725 5.725	1.66 L/(>1000)	5.725 5.725	27.03 L/423.6	5.725 5.725	0.97 L/(>1000)	8.050 8.050	0.06 L/(>1000)
N3/N9	5.725 5.725	0.15 L/(>1000)	5.725 5.725	26.91 L/425.5	5.725 5.725	0.16 L/(>1000)	5.725 5.725	0.23 L/(>1000)
N164/N10	4.686 4.686	0.46 L/(>1000)	5.725 5.725	22.44 L/510.2	3.829 3.829	0.27 L/(>1000)	3.400 3.400	0.76 L/(>1000)
N4/N11	5.725 5.725	1.06 L/(>1000)	5.725 5.725	27.01 L/423.9	5.725 5.725	0.17 L/(>1000)	5.725 5.725	0.23 L/(>1000)
N28/N38	5.725 5.725	1.16 L/(>1000)	5.725 5.725	27.13 L/422.1	5.725 5.725	0.99 L/(>1000)	3.614 3.614	0.06 L/(>1000)
N5/N12	5.725 5.725	1.29 L/(>1000)	5.725 5.725	27.13 L/422.1	5.931 5.931	0.12 L/(>1000)	3.400 3.400	0.05 L/(>1000)
N29/N39	5.725 5.725	1.41 L/(>1000)	5.725 5.725	27.13 L/422.0	5.725 5.725	1.18 L/(>1000)	3.400 3.400	0.12 L/(>1000)
N6/N13	5.725 5.725	0.29 L/(>1000)	5.725 5.725	14.21 L/805.6	5.725 -	0.00 L/(>1000)	5.725 -	0.00 L/(>1000)
N77/N78	2.551 -	0.00 L/(>1000)	1.374 1.374	0.04 L/(>1000)	2.551 -	0.00 L/(>1000)	2.159 -	0.00 L/(>1000)
N78/N79	2.159 -	0.00 L/(>1000)	1.374 1.374	0.04 L/(>1000)	2.159 -	0.00 L/(>1000)	0.785 -	0.00 L/(>1000)
N79/N80	0.785 -	0.00 L/(>1000)	1.374 1.374	0.04 L/(>1000)	0.785 -	0.00 L/(>1000)	0.981 -	0.00 L/(>1000)
N80/N81	0.785 -	0.00 L/(>1000)	1.374 1.374	0.04 L/(>1000)	0.785 -	0.00 L/(>1000)	1.570 -	0.00 L/(>1000)
N84/N83	1.970 -	0.00 L/(>1000)	1.379 1.379	0.04 L/(>1000)	2.560 -	0.00 L/(>1000)	2.166 -	0.00 L/(>1000)

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N85/N84	0.985 -	0.00 L/(>1000)	1.379 1.379	0.04 L/(>1000)	0.985 -	0.00 L/(>1000)	1.970 -	0.00 L/(>1000)
N86/N85	1.379 -	0.00 L/(>1000)	1.379 1.379	0.04 L/(>1000)	0.591 -	0.00 L/(>1000)	1.182 -	0.00 L/(>1000)
N87/N86	2.560 -	0.00 L/(>1000)	1.379 1.379	0.04 L/(>1000)	2.166 -	0.00 L/(>1000)	2.363 -	0.00 L/(>1000)
N40/N41	6.441 6.441	2.00 L/(>1000)	5.725 5.725	3.34 L/(>1000)	7.514 7.514	0.62 L/(>1000)	5.725 5.725	0.01 L/(>1000)
N43/N42	3.936 3.936	0.19 L/(>1000)	5.725 5.725	3.76 L/(>1000)	6.083 8.945	0.02 L/(>1000)	6.441 6.441	0.00 L/(>1000)
N44/N45	7.872 7.872	0.10 L/(>1000)	5.725 5.725	3.78 L/(>1000)	6.441 4.652	0.02 L/(>1000)	6.798 6.798	0.00 L/(>1000)
N46/N47	6.798 6.798	0.25 L/(>1000)	5.725 5.725	3.81 L/(>1000)	6.083 6.083	0.07 L/(>1000)	6.798 6.798	0.01 L/(>1000)
N49/N48	5.367 5.367	0.12 L/(>1000)	5.725 5.725	2.05 L/(>1000)	5.367 5.367	0.01 L/(>1000)	5.725 5.725	0.03 L/(>1000)
N51/N50	3.220 9.661	0.35 L/(>1000)	7.872 7.872	2.29 L/(>1000)	8.945 9.661	0.45 L/(>1000)	8.945 8.945	2.02 L/(>1000)
N53/N52	5.725 5.725	0.37 L/(>1000)	5.725 5.725	3.72 L/(>1000)	5.367 5.367	0.05 L/(>1000)	5.725 5.725	0.01 L/(>1000)
N55/N54	5.725 5.725	0.58 L/(>1000)	5.725 5.725	3.95 L/(>1000)	5.725 5.725	0.06 L/(>1000)	5.725 5.725	0.02 L/(>1000)
N57/N56	5.009 5.009	2.96 L/(>1000)	5.725 5.725	3.31 L/(>1000)	3.936 3.936	0.84 L/(>1000)	5.725 5.725	0.01 L/(>1000)
N88/N89	2.159 -	0.00 L/(>1000)	1.374 1.374	0.04 L/(>1000)	2.159 -	0.00 L/(>1000)	0.589 -	0.00 L/(>1000)
N89/N90	1.374 -	0.00 L/(>1000)	1.374 1.374	0.04 L/(>1000)	0.589 -	0.00 L/(>1000)	0.393 -	0.00 L/(>1000)
N90/N91	2.159 -	0.00 L/(>1000)	1.374 1.374	0.04 L/(>1000)	2.159 -	0.00 L/(>1000)	0.981 -	0.00 L/(>1000)
N91/N92	2.355 -	0.00 L/(>1000)	1.374 1.374	0.04 L/(>1000)	0.981 -	0.00 L/(>1000)	0.785 -	0.00 L/(>1000)
N94/N93	1.379 -	0.00 L/(>1000)	1.379 1.379	0.04 L/(>1000)	2.166 -	0.00 L/(>1000)	1.576 -	0.00 L/(>1000)
N95/N94	1.576	0.05	1.576	0.19	1.576	0.04	1.576	0.02

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	1.576	L/(>1000)	1.576	L/(>1000)	1.576	L/(>1000)	1.576	L/(>1000)
N96/N95	2.757 2.757	0.40 L/(>1000)	2.757 2.757	9.67 L/570.1	2.757 2.757	0.18 L/(>1000)	2.757 2.757	1.61 L/(>1000)
N58/N33	5.725 5.725	0.58 L/(>1000)	5.725 5.725	3.82 L/(>1000)	5.725 5.725	0.06 L/(>1000)	6.083 6.083	0.00 L/(>1000)
N57/N97	3.502 3.502	9.69 L/722.6	3.502 3.502	16.46 L/425.5	1.313 -	0.00 L/(>1000)	6.566 -	0.00 L/(>1000)
N56/N97	2.815 2.815	4.04 L/(>1000)	2.815 2.815	6.87 L/819.3	2.815 -	0.00 L/(>1000)	0.352 -	0.00 L/(>1000)
N58/N95	3.502 3.502	9.69 L/722.6	3.502 3.502	16.46 L/425.5	1.313 -	0.00 L/(>1000)	5.253 -	0.00 L/(>1000)
N33/N95	2.815 2.815	4.04 L/(>1000)	2.815 2.815	6.87 L/819.3	0.352 -	0.00 L/(>1000)	5.278 -	0.00 L/(>1000)
N55/N94	3.502 3.502	9.69 L/722.6	3.502 3.502	16.46 L/425.5	5.253 -	0.00 L/(>1000)	4.815 -	0.00 L/(>1000)
N54/N94	2.815 2.815	4.04 L/(>1000)	2.815 2.815	6.87 L/819.3	1.759 -	0.00 L/(>1000)	2.463 -	0.00 L/(>1000)
N53/N93	3.502 3.502	9.69 L/722.6	3.502 3.502	16.46 L/425.5	0.438 -	0.00 L/(>1000)	5.691 -	0.00 L/(>1000)
N52/N93	2.815 2.815	4.04 L/(>1000)	2.815 2.815	6.87 L/819.3	0.704 -	0.00 L/(>1000)	0.704 -	0.00 L/(>1000)
N41/N89	3.063 3.063	5.37 L/(>1000)	3.500 3.500	23.81 L/294.0	3.938 3.938	0.01 L/(>1000)	3.938 3.938	0.12 L/(>1000)
N40/N89	2.813 2.813	4.03 L/(>1000)	2.813 2.813	6.85 L/820.7	0.703 -	0.00 L/(>1000)	1.406 -	0.00 L/(>1000)
N42/N90	3.063 3.063	5.12 L/(>1000)	3.500 3.500	20.79 L/336.8	3.938 3.938	0.06 L/(>1000)	3.938 3.938	0.45 L/(>1000)
N43/N90	2.813 2.813	4.03 L/(>1000)	2.813 2.813	6.85 L/820.7	1.758 -	0.00 L/(>1000)	1.758 -	0.00 L/(>1000)
N47/N92	3.063 3.063	3.97 L/(>1000)	3.063 3.063	7.71 L/907.6	3.938 3.938	0.01 L/(>1000)	3.938 3.938	0.03 L/(>1000)
N46/N92	2.813 2.813	4.03 L/(>1000)	2.813 2.813	6.85 L/820.7	4.219 -	0.00 L/(>1000)	5.274 -	0.00 L/(>1000)
N93/N92	1.564 1.564	0.01 L/(>1000)	1.760 1.760	0.04 L/(>1000)	1.564 1.564	0.02 L/(>1000)	1.564 1.564	0.02 L/(>1000)

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N93/N49	2.810 2.810	4.02 L/(>1000)	2.810 2.810	6.84 L/822.1	0.351 -	0.00 L/(>1000)	4.567 -	0.00 L/(>1000)
N93/N48	3.935 3.935	4.21 L/(>1000)	3.935 3.935	7.89 L/886.2	3.061 3.061	0.25 L/(>1000)	3.061 3.061	1.14 L/(>1000)
N45/N91	3.063 3.063	4.87 L/(>1000)	3.500 3.500	17.79 L/393.5	3.938 3.938	0.08 L/(>1000)	3.938 3.938	1.03 L/(>1000)
N44/N91	2.813 2.813	4.03 L/(>1000)	2.813 2.813	6.85 L/820.7	2.110 -	0.00 L/(>1000)	3.516 -	0.00 L/(>1000)
N165/N3	0.746 0.746	0.08 L/(>1000)	0.746 0.746	0.09 L/(>1000)	0.746 0.746	0.13 L/(>1000)	0.746 0.746	0.01 L/(>1000)
N164/N165	0.623 0.623	0.03 L/(>1000)	0.809 0.809	0.05 L/(>1000)	0.436 0.436	0.05 L/(>1000)	0.809 0.250	0.01 L/(>1000)
N72/N9	0.746 0.746	0.06 L/(>1000)	0.746 0.746	0.10 L/(>1000)	0.746 0.746	0.03 L/(>1000)	0.746 0.746	0.02 L/(>1000)
N10/N72	0.436 0.436	0.01 L/(>1000)	0.809 0.809	0.04 L/(>1000)	0.623 0.436	0.02 L/(>1000)	0.996 0.250	0.00 L/(>1000)
N167/N81	0.684 -	0.00 L/(>1000)	0.684 0.684	0.01 L/(>1000)	0.684 -	0.00 L/(>1000)	0.684 -	0.00 L/(>1000)
N82/N167	0.684 -	0.00 L/(>1000)	0.684 0.684	0.01 L/(>1000)	0.684 -	0.00 L/(>1000)	0.684 -	0.00 L/(>1000)
N166/N164	0.932 0.932	0.02 L/(>1000)	0.559 0.559	0.05 L/(>1000)	0.932 0.932	0.05 L/(>1000)	0.559 1.119	0.01 L/(>1000)
N4/N166	0.623 0.623	0.10 L/(>1000)	0.623 0.623	0.10 L/(>1000)	0.623 0.623	0.18 L/(>1000)	0.623 0.623	0.02 L/(>1000)
N71/N10	0.746 0.746	0.02 L/(>1000)	0.559 0.559	0.05 L/(>1000)	0.746 0.559	0.04 L/(>1000)	0.746 1.119	0.01 L/(>1000)
N11/N71	0.623 0.623	0.07 L/(>1000)	0.623 0.623	0.09 L/(>1000)	0.809 0.809	0.02 L/(>1000)	0.623 0.623	0.01 L/(>1000)
N168/N82	0.684 0.684	0.00 L/(>1000)	0.684 0.684	0.01 L/(>1000)	0.684 0.684	0.01 L/(>1000)	0.684 0.684	0.00 L/(>1000)
N83/N168	0.684 0.684	0.01 L/(>1000)	0.684 0.684	0.02 L/(>1000)	0.684 0.684	0.02 L/(>1000)	0.684 0.684	0.00 L/(>1000)
N15/N49	0.749 0.749	0.10 L/(>1000)	0.562 0.562	0.07 L/(>1000)	0.749 0.749	0.18 L/(>1000)	0.749 0.749	0.01 L/(>1000)
N16/N49	0.746	0.11	0.746	0.09	0.746	0.22	0.559	0.01

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	0.746	L/(>1000)	0.746	L/(>1000)	0.746	L/(>1000)	0.559	L/(>1000)
N51/N16	0.623 0.623	0.10 L/(>1000)	0.623 0.623	0.09 L/(>1000)	0.623 0.623	0.19 L/(>1000)	0.623 0.623	0.02 L/(>1000)
N17/N51	0.752 0.752	0.06 L/(>1000)	0.564 0.564	0.06 L/(>1000)	0.752 0.752	0.12 L/(>1000)	1.129 1.129	0.00 L/(>1000)
N20/N48	0.749 0.749	0.09 L/(>1000)	0.562 0.562	0.07 L/(>1000)	0.749 0.749	0.18 L/(>1000)	0.562 0.562	0.00 L/(>1000)
N169/N48	0.746 0.746	0.11 L/(>1000)	0.746 0.746	0.09 L/(>1000)	0.746 0.746	0.22 L/(>1000)	0.932 0.932	0.01 L/(>1000)
N50/N169	0.623 0.623	0.10 L/(>1000)	0.623 0.623	0.08 L/(>1000)	0.623 0.623	0.19 L/(>1000)	0.250 0.250	0.00 L/(>1000)
N21/N50	0.752 0.752	0.07 L/(>1000)	0.564 0.564	0.07 L/(>1000)	0.752 0.752	0.13 L/(>1000)	0.752 0.752	0.02 L/(>1000)
N88/N42	2.813 2.813	4.03 L/(>1000)	2.813 2.813	6.85 L/820.7	1.758 -	0.00 L/(>1000)	2.110 -	0.00 L/(>1000)
N88/N43	3.500 3.500	9.68 L/723.4	3.500 3.500	16.43 L/425.9	3.063 -	0.00 L/(>1000)	6.563 -	0.00 L/(>1000)
N89/N45	2.813 2.813	4.03 L/(>1000)	2.813 2.813	6.85 L/820.7	0.352 -	0.00 L/(>1000)	1.055 -	0.00 L/(>1000)
N89/N44	3.500 3.500	9.68 L/723.4	3.500 3.500	16.43 L/425.9	2.625 -	0.00 L/(>1000)	3.063 -	0.00 L/(>1000)
N90/N47	2.813 2.813	4.03 L/(>1000)	2.813 2.813	6.85 L/820.7	3.164 -	0.00 L/(>1000)	0.352 -	0.00 L/(>1000)
N90/N46	3.500 3.500	9.68 L/723.4	3.500 3.500	16.43 L/425.9	3.063 -	0.00 L/(>1000)	1.750 -	0.00 L/(>1000)
N91/N48	2.813 2.813	4.03 L/(>1000)	2.813 2.813	6.85 L/820.7	4.219 -	0.00 L/(>1000)	0.703 -	0.00 L/(>1000)
N91/N49	3.500 3.500	9.68 L/723.4	3.500 3.500	16.43 L/425.9	0.875 -	0.00 L/(>1000)	1.750 -	0.00 L/(>1000)
N50/N92	2.810 2.810	4.02 L/(>1000)	2.810 2.810	6.84 L/822.1	0.703 -	0.00 L/(>1000)	1.756 -	0.00 L/(>1000)
N51/N92	3.498 3.498	9.66 L/724.2	3.498 3.498	16.41 L/426.4	3.935 -	0.00 L/(>1000)	2.624 -	0.00 L/(>1000)
N94/N50	3.502 3.502	9.69 L/722.6	3.502 3.502	16.46 L/425.5	0.438 -	0.00 L/(>1000)	3.940 -	0.00 L/(>1000)

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Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N94/N51	2.815 2.815	4.04 L/(>1000)	2.815 2.815	6.87 L/819.3	0.704 -	0.00 L/(>1000)	1.408 -	0.00 L/(>1000)
N95/N52	3.502 3.502	9.69 L/722.6	3.502 3.502	16.46 L/425.5	4.815 -	0.00 L/(>1000)	3.502 -	0.00 L/(>1000)
N95/N53	2.815 2.815	4.04 L/(>1000)	2.815 2.815	6.87 L/819.3	1.056 -	0.00 L/(>1000)	0.352 -	0.00 L/(>1000)
N97/N54	3.502 3.502	9.69 L/722.6	3.502 3.502	16.46 L/425.5	4.815 -	0.00 L/(>1000)	5.253 -	0.00 L/(>1000)
N97/N55	2.815 2.815	4.04 L/(>1000)	2.815 2.815	6.87 L/819.3	1.056 -	0.00 L/(>1000)	1.759 -	0.00 L/(>1000)
N96/N33	3.502 3.502	9.69 L/722.6	3.502 3.502	16.46 L/425.5	0.438 -	0.00 L/(>1000)	3.502 -	0.00 L/(>1000)
N96/N58	2.815 2.815	4.04 L/(>1000)	2.815 2.815	6.87 L/819.3	5.278 -	0.00 L/(>1000)	2.815 -	0.00 L/(>1000)
N79/N37	2.813 2.813	3.92 L/(>1000)	2.813 2.813	6.68 L/842.7	1.758 -	0.00 L/(>1000)	4.922 -	0.00 L/(>1000)
N79/N25	3.500 3.500	9.40 L/744.7	3.500 3.500	16.01 L/437.4	0.875 -	0.00 L/(>1000)	0.438 -	0.00 L/(>1000)
N78/N8	2.813 2.813	3.92 L/(>1000)	2.813 2.813	6.68 L/842.7	3.516 -	0.00 L/(>1000)	0.352 -	0.00 L/(>1000)
N80/N9	2.813 2.813	3.92 L/(>1000)	2.813 2.813	6.68 L/842.7	5.274 -	0.00 L/(>1000)	5.625 -	0.00 L/(>1000)
N78/N2	3.500 3.500	9.40 L/744.7	3.500 3.500	16.01 L/437.4	6.563 -	0.00 L/(>1000)	6.563 -	0.00 L/(>1000)
N80/N3	3.500 3.500	9.40 L/744.7	3.500 3.500	16.01 L/437.4	6.125 -	0.00 L/(>1000)	6.563 -	0.00 L/(>1000)
N84/N11	3.502 3.502	9.42 L/743.8	3.502 3.502	16.03 L/436.9	5.253 -	0.00 L/(>1000)	0.438 -	0.00 L/(>1000)
N86/N12	3.502 3.502	9.42 L/743.8	3.502 3.502	16.03 L/436.9	0.438 -	0.00 L/(>1000)	0.000 -	0.00 L/(>1000)
N85/N38	3.502 3.502	9.42 L/743.8	3.502 3.502	16.03 L/436.9	5.691 -	0.00 L/(>1000)	0.000 -	0.00 L/(>1000)
N84/N4	2.815 2.815	3.93 L/(>1000)	2.815 2.815	6.69 L/841.3	3.519 -	0.00 L/(>1000)	0.000 -	0.00 L/(>1000)
N86/N5	2.815	3.93	2.815	6.69	4.223	0.00	5.278	0.00

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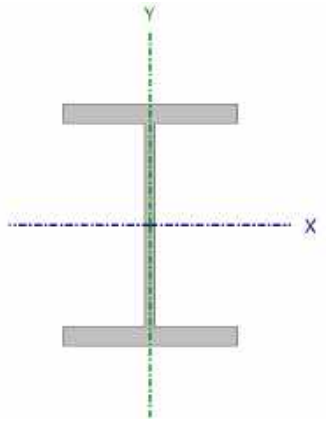
Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	2.815	L/(>1000)	2.815	L/841.3	-	L/(>1000)	-	L/(>1000)
N85/N28	2.815 2.815	3.93 L/(>1000)	2.815 2.815	6.69 L/841.3	5.278 -	0.00 L/(>1000)	5.278 -	0.00 L/(>1000)
N4/N82	2.624 2.624	0.79 L/(>1000)	3.061 3.061	7.68 L/910.7	2.186 3.061	0.95 L/(>1000)	2.186 4.373	11.04 L/(>1000)
N82/N3	3.162 3.162	0.29 L/(>1000)	2.810 2.810	6.76 L/831.2	3.513 3.513	0.43 L/(>1000)	3.513 2.459	7.95 L/926.1
N11/N82	1.756 1.756	0.20 L/(>1000)	2.810 2.810	6.73 L/834.5	2.459 2.459	0.14 L/(>1000)	2.108 2.810	7.90 L/931.6
N82/N9	5.685 5.685	0.17 L/(>1000)	3.498 3.498	7.26 L/964.2	5.685 5.247	0.11 L/(>1000)	4.810 3.061	9.99 L/(>1000)

2.2.1.3. Verificações E.L.U. (Completo)

Nota: Mostra-se o relatório completo de verificações realizadas para as 10 barras com maior coeficiente de aproveitamento.

Barra N41/N241

Perfil: CVS 550x367 (Espaç. entre enrijecedores: 500 mm. Espessura: 10 mm)
Material: Aço (A-588 345MPa)



Nós		Comprimento (m)	Características mecânicas			
Inicial	Final		Área (cm²)	I_x(1) (cm4)	I_y(1) (cm4)	I_t(2) (cm4)
N41	N241	0.250	467.50	246423.56	46993.49	2512.20

Notas:
(1) Inércia em relação ao eixo indicado
(2) Momento de inércia à torção uniforme

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	1.00	1.00	1.00	1.00
L_K	0.250	0.250	0.250	0.250
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

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Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

O índice de esbeltez das barras comprimidas, tomado como o maior relação entre o comprimento de flambagem e o raio de giração, não deve ser superior a 200.

l : ***2.5*** ✓

Onde:

l: Índice de esbeltez.

l_x : *1.1*

l_y : *2.5*

Sendo:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *0.250* m

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *0.250* m

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *22.96* cm

r_y : *10.03* cm

Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

A verificação não será executada, já que não existe esforço axial de tração.

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

Deve satisfazer:

h : ***0.056*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N41, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-B1 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. — $N_{c,Sd}$: *820.19* kN

A força axial de compressão resistente de cálculo, $N_{c,Rd}$, deve ser determinada pela expressão:

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$N_{c,Rd}$: *14655.83* kN

Onde:

c: Fator de redução total associado à resistência à compressão.	**c** :	*1.000*	
Q: Fator de redução total associado à flambagem local.	**Q** :	*1.000*	
A_g: Área bruta da seção transversal da barra.	A_g :	*467.50*	cm²
f_y: Resistência ao escoamento do aço.	f_y :	*345.00*	MPa
g_{a1}: Coeficiente de segurança do material.	g_{a1} :	*1.10*	

Fator de redução c: (ABNT NBR 8800:2008, Artigo 5.3.3)

c : *1.000*

Onde:

l_0: Índice de esbeltez reduzido.

l_0 : *0.033*

Sendo:

Q: Fator de redução total associado à flambagem local.	**Q** :	*1.000*	
A_g: Área bruta da seção transversal da barra.	A_g :	*467.50*	cm²
f_y: Resistência ao escoamento do aço.	f_y :	*345.00*	MPa
N_e: Força axial de flambagem elástica.	N_e :	*14841828.85*	kN

Força axial de flambagem elástica: (ABNT NBR 8800:2008, Anexo E)

A força axial de flambagem elástica, N_e, de uma barra com seção transversal duplamente simétrica ou simétrica em relação a um ponto, é dada pelo menor valor entre os obtidos por (a), (b) e (c): N_e : *14841828.85* kN

(a) Para flambagem por flexão em relação ao eixo principal de inércia X da seção transversal:

N_{ex} : *77827297.15* kN

Onde:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X.	$K_x \cdot L_x$:	*0.250*	m
I_x: Momento de inércia da seção transversal em relação ao eixo X.	I_x :	*246423.56*	cm4
E: Módulo de elasticidade do aço.	**E** :	*200000*	MPa

(b) Para flambagem por flexão em relação ao eixo principal de inércia Y da seção transversal:

N_{ey} : *14841828.85* kN

Onde:

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y.	$K_y \cdot L_y$:	*0.250*	m
I_y: Momento de inércia da seção transversal em relação ao eixo Y.	I_y :	*46993.49*	cm4
E: Módulo de elasticidade do aço.	**E** :	*200000*	MPa

(c) Para flambagem por torção em relação ao eixo longitudinal Z:

N_{ez} : *15167295.08* kN

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Onde:

$K_z \cdot L_z$: Comprimento de flambagem por torção.	$K_z \cdot L_z$:	*0.250*	m
E: Módulo de elasticidade do aço.	**E** :	*200000*	MPa
C_w: Constante de empenamento da seção transversal.	C_w :	*30080062.75*	cm6
G: Módulo de elasticidade transversal do aço.	**G** :	*77000*	MPa
J: Constante de torção da seção transversal.	**J** :	*2512.20*	cm4
r_0: Raio de giração polar da seção bruta em relação ao centro de cisalhamento.			
	r_0 :	*25.05*	cm

Onde:

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente.	r_x :	*22.96*	cm
	r_y :	*10.03*	cm
X_0,Y_0: Coordenadas do centro de cisalhamento na direção dos eixos principales X, Y, respectivamente.	X_0 :	*0.00*	mm
	Y_0 :	*0.00*	mm

Flambagem local de barras axialmente comprimidas: (ABNT NBR 8800:2008, Anexo F)

Não se aplica nenhuma redução, já que todos os elementos componentes da seção transversal possuem relações entre largura e espessura (b/t) que não superam os valores limite dados na Tabela F.1.

Mesa: Elemento do Grupo 5 da Tabela F.1.

4.55 £ **13.43**

Sendo:

(b/t): Relação entre largura e espessura.	**(b/t)** :	*4.55*	
Onde:			
b: Largura.	**b** :	*200.00*	mm
t: Espessura.	**t** :	*44.00*	mm
$(b/t)_{lim}$: Relação limite entre largura e espessura.			
	$(b/t)_{lim}$:	*13.43*	

Onde:

E: Módulo de elasticidade do aço.	**E** :	*200000*	MPa
f_y: Resistência ao escoamento do aço.	f_y :	*345.00*	MPa
	k_c :	*0.76*	
h: Altura da alma.	**h** :	*462.00*	mm
t_w: Espessura da alma.	t_w :	*25.00*	mm

Alma: Elemento do Grupo 2 da Tabela F.1.

18.48 £ **35.87**

Sendo:

(b/t): Relação entre largura e espessura.	**(b/t)** :	*18.48*	
Onde:			
b: Largura.	**b** :	*462.00*	mm
t: Espessura.	**t** :	*25.00*	mm

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$(b/t)_{lim}$: Relação limite entre largura e espessura.

$(b/t)_{lim}$: *35.87*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

Resistência à flexão eixo X (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.330*** ✓

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M_{Sd}^-: Momento fletor solicitante de cálculo, desfavorável. M_{Sd}^- : *1061.22* kN·m

Já que 'l £ l,', deve-se considerar viga de alma não-esbelta (ABNT NBR 8800:2008, Anexo G). **18.48** £ **137.24**

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *462.00* mm

t_w: Espessura da alma. t_w : *25.00* mm

l_r : *137.24*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

O momento fletor resistente de cálculo M_{Rd} de vigas de alma não-esbelta deve ser tomado como o menor valor entre os obtidos nas seguintes seções: M_{Rd} : *3211.52* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *4215.68* kN·m

Onde:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_x : *8960.86* cm³

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f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

2.49 £ **42.38**

M_{Rd} : *3211.52* kN·m

Onde:

l : *2.49*

Sendo:

$L_{b,inf}$: Distância entre pontos travados à flambagem lateral. $L_{b,inf}$: *0.250* m

r_y: Raio de giração da seção em relação ao eixo principal de inércia perpendicular ao eixo de flexão. r_y : *10.03* cm

l_p : *42.38*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *3211.52* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. b_f : *400.00* mm

t_f: Espessura da mesa comprimida. t_f : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

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f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(d) Estado-limite último de flambagem local da alma, FLA (ABNT NBR 8800:2008, Anexo G):

18.48 £ **90.53**

M_{Rd} : *3211.52* kN·m

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *462.00* mm

t_w: Espessura da alma. t_w : *25.00* mm

l_p : *90.53*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência à flexão eixo Y (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.016*** ✓

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M_{Sd}^+: Momento fletor solicitante de cálculo, desfavorável. M_{Sd}^+ : *17.69* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: M_{Rd} : *1105.42* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *1105.42* kN·m

Onde:

W_y: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_y : *2349.67* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *1126.64* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. b_f : *400.00* mm

t_f: Espessura da mesa comprimida. t_f : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *1239.30* kN

Onde:

Z_y: Módulo de resistência plástico. Z_y : *3592.19* cm³

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f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência ao esforço cortante X (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.001*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. V_{Sd} : *8.37* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

4.55 £ **29.01**

V_{Rd} : *6624.00* kN

Onde:

l : *4.55*

Sendo:

b_f: Largura das mesas. b_f : *400.00* mm
t_f: Espessura das mesas. t_f : *44.00* mm

l_p : *29.01*

Sendo:

k_v: Coeficiente de flambagem. k_v : *1.20*
E: Módulo de elasticidade do aço. **E** : *200000* MPa
f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

V_{pl} : *7286.40* kN

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Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *352.00* cm²

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência ao esforço cortante Y (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.864*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N41, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-B1 [NL].

V_{sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{Sd}** : *2236.45* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

18.48 £ **59.22**

V_{Rd} : *2587.50* kN

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *462.00* mm

t_w: Espessura da alma. **t_w** : *25.00* mm

l_p : *59.22*

Sendo:

k_v: Coeficiente de flambagem. **k_v** : *5.00*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

V_{pl} : *2846.25* kN

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Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *137.50* cm²

d: Altura total da seção transversal. **d** : *550.00* mm

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Os enrijecedores transversais não são levados em conta, já que não cumprem os seguintes requisitos:

18.75 £ **13.48**

Onde:

b: Largura dos elementos que formam os enrijecedores. **b** : *187.50* mm

t: Espessura dos elementos que formam os enrijecedores. **t** : *10.00* mm

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

5332.03 ³ **390.63**

Onde:

I_s : *5332.03* cm4

Sendo:

b: Largura dos elementos que formam os enrijecedores. **b** : *187.50* mm

t: Espessura dos elementos que formam os enrijecedores. **t** : *10.00* mm

t_w: Espessura da alma. **t_w** : *25.00* mm

j : *0.50*

Sendo:

a: Distância entre as linhas de centro dos enrijecedores transversais adjacentes. **a** : *500.00* mm

h: Largura dos elementos que formam os enrijecedores. **h** : *462.00* mm

Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Deve satisfazer:

h : ***0.366*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N41, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-B1 [NL].

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$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável.	$N_{c,Sd}$:	*820.19*	kN
$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável.	$M_{x,Sd}^{-}$:	*1061.22*	kN·m
$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável.	$M_{y,Sd}^{+}$:	*8.53*	kN·m

0.056 < **0.200**

h : *0.366*

Onde:

$N_{c,Rd}$: Força axial resistente de cálculo de compressão (ABNT NBR 8800:2008, Artigo 5.3).	$N_{c,Rd}$:	*14655.83*	kN
$M_{x,Rd}$,$M_{y,Rd}$: Momentos fletores resistentes de cálculo, respectivamente em relação aos eixos X e Y da seção transversal (ABNT NBR 8800:2008, Artigo 5.4.2).	$M_{x,Rd}$:	*3211.52*	kN·m
	$M_{y,Rd}$:	*1105.42*	kN·m

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

h : ***0.056*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável.	T_{Sd} :	*6.06*	kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

T_{Rd} : *107.44* kN·m

Onde:

W_T: Módulo de resistência à torção.	W_T :	*570.95*	cm³
f_y: Resistência ao escoamento do aço.	f_y :	*345.00*	MPa
g_{a1}: Coeficiente de segurança do material.	g_{a1} :	*1.10*	

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Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Deve satisfazer:

h : ***0.049*** ✓

h : ***0.951*** ✓

(Já que a norma não proporciona uma verificação da tensão total para seções submetidas a torção combinada com outros esforços, considera-se que este elemento também deve cumprir os seguintes critérios para a tensão de Von Mises:)

h : ***0.865*** ✓

O coeficiente de aproveitamento desfavorável produz-se no nó N41, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL] no ponto da seção transversal de coordenadas X = 0.00 mm, Y = 0.00 mm em relação ao centro de gravidade.

As tensões normais s_{Sd} são dadas por:

s_{Sd} : *-15.40* MPa

Onde:

s_{NSd} : *-15.40* MPa

Sendo:

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. **$N_{c,Sd}$** : *719.81* kN

Q: Fator de redução total associado à flambagem local (ABNT NBR 8800:2008, Anexo F). **Q** : *1.000*

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A_g: Área bruta da seção transversal da barra. — **A_g** : *467.50* cm²

$\sigma_{Mx,Sd}$: *0.00* MPa

Sendo:

$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{x,Sd}^-$** : *927.92* kN·m

I_x: Momento de inércia da seção transversal em relação ao eixo X. — **I_x** : *246423.56* cm4

Y: Coordenada, em relação ao eixo Y, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **Y** : *0.00* mm

$\sigma_{My,Sd}$: *0.00* MPa

Sendo:

$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{y,Sd}^-$** : *1.18* kN·m

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — **I_y** : *46993.49* cm4

X: Coordenada, em relação ao eixo X, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **X** : *0.00* mm

As tensões tangenciais τ_{Sd} são dadas por:

τ_{Sd} : *172.15* MPa

Onde:

$\tau_{Vx,Sd}$: *0.00* MPa

Sendo:

$V_{x,Sd}^+$: Esforço cortante solicitante de cálculo, desfavorável. — **$V_{x,Sd}^+$** : *4.26* kN

S_y: Momento estático, em relação ao eixo Y, da parte da seção situada a um lado do ponto de verificação. — **S_y** : *0.00* cm³

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — **I_y** : *46993.49* cm4

t: Espessura. — **t** : *25.00* mm

$\tau_{Vy,Sd}$: *166.12* MPa

Sendo:

$V_{y,Sd}^-$: Esforço cortante solicitante de cálculo, desfavorável. — **$V_{y,Sd}^-$** : *1948.27* kN

S_x: Momento estático, em relação ao eixo X, da parte da seção situada a um lado do ponto de verificação. — **S_x** : *5252.91* cm³

I_x: Momento de inércia da seção transversal em relação ao eixo X. — **I_x** : *246423.56* cm4

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t: Espessura. **t** : *25.00* mm

t_{TSd} : *6.03* MPa

Sendo:

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. **T_{Sd}** : *6.06* kN·m
J: Constante de torção da seção transversal. **J** : *2512.20* cm4
t: Espessura. **t** : *25.00* mm

As tensões totais f_{Sd} são dadas por:

f_{Sd} : *298.58* MPa

A tensão resistente de cálculo, s_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): **s_{Rd}** : *313.49* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão normal:

s_{Rd} : *313.49* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3).

c : *1.000*

Sendo:

l_0 : *0.033*

s_e : *317472.27* MPa

Onde:

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N_e: Força axial de flambagem elástica.	N_e :	*14841828.85*	kN
Q: Fator de redução total associado à flambagem local (ABNT NBR 8800:2008, Anexo F).	**Q** :	*1.000*	
A_g: Área bruta da seção transversal da barra.	A_g :	*467.50*	cm²
f_y: Resistência ao escoamento do aço.	f_y :	*345.00*	MPa
g_{a1}: Coeficiente de segurança do material.	g_{a1} :	*1.10*	

A tensão resistente de cálculo, t_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): t_{Rd} : *180.94* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão de cisalhamento:

t_{Rd} : *188.18* MPa

Onde:

f_y: Resistência ao escoamento do aço.	f_y :	*345.00*	MPa
g_{a1}: Coeficiente de segurança do material.	g_{a1} :	*1.10*	

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão cisalhamento:

t_{Rd} : *180.94* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3).

c : *0.961*

Sendo:

l_0 : *0.306*

t_e : *2206.26* MPa

s_E : *441.25* MPa

Onde:

k_y: Coeficiente de flambagem (ABNT NBR 8800:2008, Artigo 5.4.3).	k_y :	*5.00*	
E: Módulo de elasticidade do aço.	**E** :	*200000*	MPa
n: Coeficiente de Poisson.	**n** :	*0.30*	

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t: Espessura.	**t** :	*25.00*	mm
h: Largura.	**h** :	*506.00*	mm
$\mathbf{f_y}$: Resistência ao escoamento do aço.	$\mathbf{f_y}$:	*345.00*	MPa
$\mathbf{g_{a1}}$: Coeficiente de segurança do material.	$\mathbf{g_{a1}}$:	*1.10*	

A tensão resistente de cálculo, f_{Rd} é dada por:

$\mathbf{f_{Rd}}$: *345.00* MPa

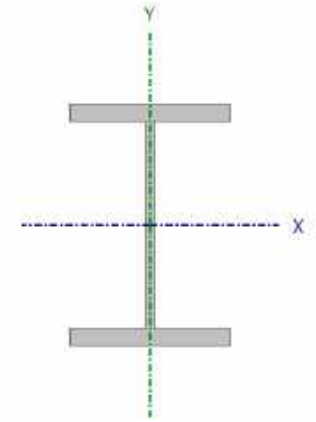
Onde:

$\mathbf{f_y}$: Resistência ao escoamento do aço.	$\mathbf{f_y}$:	*345.00*	MPa
$\mathbf{g_{a1}}$: Coeficiente de segurança do material.	$\mathbf{g_{a1}}$:	*1.10*	

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Barra N217/N11

Perfil: CVS 600x367 (Espaç. entre enrijecedores: 500 mm. Espessura: 1 mm)
Material: Aço (A-588 345MPa)



Nós		Comprimento (m)	Características mecânicas			
Inicial	Final		Área (cm²)	I_x[(1)] (cm4)	I_y[(1)] (cm4)	I_t[(2)] (cm4)
N217	N11	0.250	466.69	297661.55	46981.29	2463.39

Notas:
(1) Inércia em relação ao eixo indicado
(2) Momento de inércia à torção uniforme

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	1.00	1.00	1.00	1.00
L_K	0.250	0.250	0.250	0.250
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

A verificação não procede, já que não há força axial de compressão.

Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

Deve satisfazer:

h : ***0.154*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N11, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C2 [NL].

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. **$N_{t,Sd}$** : *2248.41* kN

A força axial de tração resistente de cálculo, $N_{t,Rd}$, deve ser determinada pela expressão:

$N_{t,Rd}$: *14637.03* kN

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Onde:

A_g: Área bruta da seção transversal da barra. **A_g** : *466.69* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

A verificação não será executada, já que não existe esforço axial de compressão.

Resistência à flexão eixo X (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.128*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N11, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C2 [NL].

M_{Sd}^+: Momento fletor solicitante de cálculo, desfavorável. **M_{Sd}^+** : *450.77* kN·m

Já que 'l £ l_r', deve-se considerar viga de alma não-esbelta (ABNT NBR 8800:2008, Anexo G). **22.86** £ **137.24**

Onde:

l : *22.86*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *512.00* mm

t_w: Espessura da alma. **t_w** : *22.40* mm

l_r : *137.24*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

O momento fletor resistente de cálculo M_{Rd} de vigas de alma não-esbelta deve ser tomado como o menor valor entre os obtidos nas seguintes seções: **M_{Rd}** : *3529.54* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *4667.87* kN·m

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Onde:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. — W_x : *9922.05* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

2.49 £ **42.38**

M_{Rd} : *3529.54* kN·m

Onde:

l : *2.49*

Sendo:

$L_{b,sup}$: Distância entre pontos travados à flambagem lateral. — $L_{b,sup}$: *0.250* m

r_y: Raio de giração da seção em relação ao eixo principal de inércia perpendicular ao eixo de flexão. — r_y : *10.03* cm

l_p : *42.38*

Sendo:

E: Módulo de elasticidade do aço. — E : *200000* MPa

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

M_{pl} : *3882.49* kN

Onde:

Z_x: Módulo de resistência plástico. — Z_x : *11253.61* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *3529.54* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. — b_f : *400.00* mm

t_f: Espessura da mesa comprimida. — t_f : *44.00* mm

l_p : *9.15*

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Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3882.49* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *11253.61* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(d) Estado-limite último de flambagem local da alma, FLA (ABNT NBR 8800:2008, Anexo G):

22.86 £ **90.53**

M_{Rd} : *3529.54* kN·m

Onde:

l : *22.86*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *512.00* mm

t_w: Espessura da alma. t_w : *22.40* mm

l_p : *90.53*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3882.49* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *11253.61* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência à flexão eixo Y (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

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h : ***0.081*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N11, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

M_{Sd}^+: Momento fletor solicitante de cálculo, desfavorável. — **M_{Sd}^+** : *88.97* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: — **M_{Rd}** : *1105.13* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *1105.13* kN·m

Onde:

W_y: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. — **W_y** : *2349.06* cm³

f_y: Resistência ao escoamento do aço. — **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — **g_{a1}** : *1.10*

(b) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *1124.14* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. — **b_f** : *400.00* mm

t_f: Espessura da mesa comprimida. — **t_f** : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. — **f_y** : *345.00* MPa

M_{pl} : *1236.56* kN

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Onde:

Z_y: Módulo de resistência plástico. Z_y : *3584.23* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

γ_{a1}: Coeficiente de segurança do material. γ_{a1} : *1.10*

Resistência ao esforço cortante X (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.005*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. V_{Sd} : *35.42* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

4.55 £ **29.01**

V_{Rd} : *6624.00* kN

Onde:

l : *4.55*

Sendo:

b_f: Largura das mesas. b_f : *400.00* mm

t_f: Espessura das mesas. t_f : *44.00* mm

l_p : *29.01*

Sendo:

k_v: Coeficiente de flambagem. k_v : *1.20*

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

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V_{pl} : *7286.40* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *352.00* cm²

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência ao esforço cortante Y (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.306*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N217, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C2 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. V_{Sd} : *772.99* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

22.86 £ **59.22**

V_{Rd} : *2529.16* kN

Onde:

l : *22.86*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *512.00* mm

t_w: Espessura da alma. t_w : *22.40* mm

l_p : *59.22*

Sendo:

k_v: Coeficiente de flambagem. k_v : *5.00*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

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f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

V_{pl} : *2782.08* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *134.40* cm²

d: Altura total da seção transversal. — **d** : *600.00* mm

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

Os enrijecedores transversais não são levados em conta, já que não cumprem os seguintes requisitos:

188.80 £ **13.48**

Onde:

b: Largura dos elementos que formam os enrijecedores. — **b** : *188.80* mm

t: Espessura dos elementos que formam os enrijecedores. — **t** : *1.00* mm

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

533.24 ³ **349.23**

Onde:

I_s : *533.24* cm4

Sendo:

b: Largura dos elementos que formam os enrijecedores. — **b** : *188.80* mm

t: Espessura dos elementos que formam os enrijecedores. — **t** : *1.00* mm

t_w: Espessura da alma. — t_w : *22.40* mm

j : *0.62*

Sendo:

a: Distância entre as linhas de centro dos enrijecedores transversais adjacentes. — **a** : *500.00* mm

h: Largura dos elementos que formam os enrijecedores. — **h** : *512.00* mm

Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Deve satisfazer:

h : ***0.243*** ✓

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O esforço solicitante de cálculo desfavorável produz-se no nó N11, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável.	**$N_{t,Sd}$** : *1821.54* kN
$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável.	**$M_{x,Sd}^{+}$** : *355.12* kN·m
$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável.	**$M_{y,Sd}^{+}$** : *88.97* kN·m

0.124 < **0.200**

h : *0.243*

Onde:

$N_{t,Rd}$: Força axial resistente de cálculo de tração (ABNT NBR 8800:2008, Artigo 5.2).	**$N_{t,Rd}$** : *14637.03* kN
$M_{x,Rd}$,$M_{y,Rd}$: Momentos fletores resistentes de cálculo, respectivamente em relação aos eixos X e Y da seção transversal (ABNT NBR 8800:2008, Artigo 5.4.2).	**$M_{x,Rd}$** : *3529.54* kN·m **$M_{y,Rd}$** : *1105.13* kN·m

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

h : ***0.801*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. **T_{Sd}** : *84.44* kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

T_{Rd} : *105.36* kN·m

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Onde:

W_T: Módulo de resistência à torção. W_T : *559.86* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Deve satisfazer:

h : ***0.071*** ✓

h : ***0.877*** ✓

(Já que a norma não proporciona uma verificação da tensão total para seções submetidas a torção combinada com outros esforços, considera-se que este elemento também deve cumprir os seguintes critérios para a tensão de Von Mises:)

h : ***0.824*** ✓

O coeficiente de aproveitamento desfavorável produz-se no nó N217, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL] no ponto da seção transversal de coordenadas X = 0.00 mm, Y = 278.00 mm em relação ao centro de gravidade.

As tensões normais s_{Sd} são dadas por:

s_{Sd} : *22.31* MPa

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Onde:

σ_{NSd} : *43.42* MPa

Sendo:

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. — **$N_{t,Sd}$** : *2026.41* kN

A_g: Área bruta da seção transversal da barra. — **A_g** : *466.69* cm²

$\sigma_{Mx,Sd}$: *-21.11* MPa

Sendo:

$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{x,Sd}^{+}$** : *226.00* kN·m

I_x: Momento de inércia da seção transversal em relação ao eixo X. — **I_x** : *297661.55* cm4

Y: Coordenada, em relação ao eixo Y, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **Y** : *278.00* mm

$\sigma_{My,Sd}$: *0.00* MPa

Sendo:

$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{y,Sd}^{-}$** : *39.36* kN·m

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — **I_y** : *46981.29* cm4

X: Coordenada, em relação ao eixo X, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **X** : *0.00* mm

As tensões tangenciais t_{Sd} são dadas por:

t_{Sd} : *-163.69* MPa

Onde:

$t_{Vx,Sd}$: *-1.10* MPa

Sendo:

$V_{x,Sd}^{+}$: Esforço cortante solicitante de cálculo, desfavorável. — **$V_{x,Sd}^{+}$** : *25.76* kN

S_y: Momento estático, em relação ao eixo Y, da parte da seção situada a um lado do ponto de verificação. — **S_y** : *880.00* cm³

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — **I_y** : *46981.29* cm4

t: Espessura. — **t** : *44.00* mm

$t_{Vy,Sd}$: *-11.77* MPa

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Sendo:

$V_{y,Sd}$: Esforço cortante solicitante de cálculo, desfavorável.	**$V_{y,Sd}$** : *630.28*	kN
S_x: Momento estático, em relação ao eixo X, da parte da seção situada a um lado do ponto de verificação.	**S_x** : *-2446.40*	cm³
I_x: Momento de inércia da seção transversal em relação ao eixo X.	**I_x** : *297661.55*	cm4
t: Espessura.	**t** : *44.00*	mm

t_{TSd} : *-150.82* MPa

Sendo:

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável.	**T_{Sd}** : *84.44*	kN·m
J: Constante de torção da seção transversal.	**J** : *2463.39*	cm4
t: Espessura.	**t** : *44.00*	mm

As tensões totais f_{Sd} são dadas por:

f_{Sd} : *284.40* MPa

A tensão resistente de cálculo, s_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): **s_{Rd}** : *313.64* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

f_y: Resistência ao escoamento do aço.	**f_y** : *345.00*	MPa
g_{a1}: Coeficiente de segurança do material.	**g_{a1}** : *1.10*	

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3).	**c** : *1.000*	
f_y: Resistência ao escoamento do aço.	**f_y** : *345.00*	MPa
g_{a1}: Coeficiente de segurança do material.	**g_{a1}** : *1.10*	

A tensão resistente de cálculo, t_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): **t_{Rd}** : *186.64* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão de cisalhamento:

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t_{Rd} : *188.18* MPa

Onde:

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão cisalhamento:

t_{Rd} : *186.64* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3).

c : *0.992*

Sendo:

l_0 : *0.140*

t_e : *10498.66* MPa

s_E : *8748.88* MPa

Onde:

k_v: Coeficiente de flambagem (ABNT NBR 8800:2008, Artigo 5.4.3). k_v : *1.20*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

n: Coeficiente de Poisson. **n** : *0.30*

t: Espessura. **t** : *44.00* mm

h: Largura. **h** : *200.00* mm

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

A tensão resistente de cálculo, f_{Rd} é dada por:

f_{Rd} : *345.00* MPa

Onde:

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

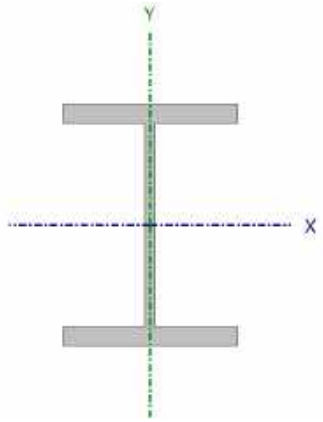
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g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

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Barra N40/N170

Perfil: CVS 550x367 (Espaç. entre enrijecedores: 500 mm. Espessura: 10 mm)
Material: Aço (A-588 345MPa)



Nós		Comprimento (m)	Características mecânicas			
Inicial	Final		Área (cm²)	I_x(1) (cm4)	I_y(1) (cm4)	I_t(2) (cm4)
N40	N170	0.250	467.50	246423.56	46993.49	2512.20

Notas:
(1) Inércia em relação ao eixo indicado
(2) Momento de inércia à torção uniforme

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	1.00	1.00	1.00	1.00
L_K	0.250	0.250	0.250	0.250
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

O índice de esbeltez das barras comprimidas, tomado como o maior relação entre o comprimento de flambagem e o raio de giração, não deve ser superior a 200.

l : *2.5* ✓

Onde:

l: Índice de esbeltez.

λ_x : *1.1*

λ_y : *2.5*

Sendo:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *0.250* m

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *0.250* m

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *22.96* cm

r_y : *10.03* cm

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Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

A verificação não será executada, já que não existe esforço axial de tração.

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

Deve satisfazer:

h : ***0.056*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N40, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-B2 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. **$N_{c,Sd}$** : *826.31* kN

A força axial de compressão resistente de cálculo, $N_{c,Rd}$, deve ser determinada pela expressão:

$N_{c,Rd}$: *14655.83* kN

Onde:

c: Fator de redução total associado à resistência à compressão. **c** : *1.000*

Q: Fator de redução total associado à flambagem local. **Q** : *1.000*

A_g: Área bruta da seção transversal da barra. **A_g** : *467.50* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Fator de redução c: (ABNT NBR 8800:2008, Artigo 5.3.3)

c : *1.000*

Onde:

l_0: Índice de esbeltez reduzido.

l_0 : *0.033*

Sendo:

Q: Fator de redução total associado à flambagem local. **Q** : *1.000*

A_g: Área bruta da seção transversal da barra. **A_g** : *467.50* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

N_e: Força axial de flambagem elástica. **N_e** : *14841828.85* kN

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Força axial de flambagem elástica: (ABNT NBR 8800:2008, Anexo E)

A força axial de flambagem elástica, N_e, de uma barra com seção transversal duplamente simétrica ou simétrica em relação a um ponto, é dada pelo menor valor entre os obtidos por (a), (b) e (c):

N_e : *14841828.85* kN

(a) Para flambagem por flexão em relação ao eixo principal de inércia X da seção transversal:

N_{ex} : *77827297.15* kN

Onde:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *0.250* m

I_x: Momento de inércia da seção transversal em relação ao eixo X. — I_x : *246423.56* cm4

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

(b) Para flambagem por flexão em relação ao eixo principal de inércia Y da seção transversal:

N_{ey} : *14841828.85* kN

Onde:

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *0.250* m

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — I_y : *46993.49* cm4

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

(c) Para flambagem por torção em relação ao eixo longitudinal Z:

N_{ez} : *15167295.08* kN

Onde:

$K_z \cdot L_z$: Comprimento de flambagem por torção. — $K_z \cdot L_z$: *0.250* m

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

C_w: Constante de empenamento da seção transversal. — C_w : *30080062.75* cm6

G: Módulo de elasticidade transversal do aço. — **G** : *77000* MPa

J: Constante de torção da seção transversal. — **J** : *2512.20* cm4

r_0: Raio de giração polar da seção bruta em relação ao centro de cisalhamento.

r_0 : *25.05* cm

Onde:

r_x, r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *22.96* cm

r_y : *10.03* cm

X_0, Y_0: Coordenadas do centro de cisalhamento na direção dos eixos principales X, Y, respectivamente. — X_0 : *0.00* mm

Y_0 : *0.00* mm

Flambagem local de barras axialmente comprimidas: (ABNT NBR 8800:2008, Anexo F)

Não se aplica nenhuma redução, já que todos os elementos componentes da seção transversal possuem relações entre largura e espessura (b/t) que não superam os valores limite dados na Tabela F.1.

Mesa: Elemento do Grupo 5 da Tabela F.1.

4.55 ℓ **13.43**

Sendo:

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(b/t): Relação entre largura e espessura. **(b/t)** : *4.55*

Onde:

b: Largura. **b** : *200.00* mm

t: Espessura. **t** : *44.00* mm

$(b/t)_{lim}$: Relação limite entre largura e espessura.

$(b/t)_{lim}$: *13.43*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

k_c : *0.76*

h: Altura da alma. **h** : *462.00* mm

t_w: Espessura da alma. t_w : *25.00* mm

Alma: Elemento do Grupo 2 da Tabela F.1.

18.48 ≤ **35.87**

Sendo:

(b/t): Relação entre largura e espessura. **(b/t)** : *18.48*

Onde:

b: Largura. **b** : *462.00* mm

t: Espessura. **t** : *25.00* mm

$(b/t)_{lim}$: Relação limite entre largura e espessura.

$(b/t)_{lim}$: *35.87*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

Resistência à flexão eixo X (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.335*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N40, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-B2 [NL].

M_{Sd}^-: Momento fletor solicitante de cálculo, desfavorável. M_{Sd}^- : *1076.25* kN·m

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Já que 'l £ l$_r$', deve-se considerar viga de alma não-esbelta (ABNT NBR 8800:2008, Anexo G). **18.48 £ 137.24**

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *462.00* mm

t_w: Espessura da alma. **t_w** : *25.00* mm

l_r : *137.24*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

O momento fletor resistente de cálculo M_{Rd} de vigas de alma não-esbelta deve ser tomado como o menor valor entre os obtidos nas seguintes seções: **M_{Rd}** : *3211.52* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *4215.68* kN·m

Onde:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. **W_x** : *8960.86* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

2.49 £ 42.38

M_{Rd} : *3211.52* kN·m

Onde:

l : *2.49*

Sendo:

$L_{b,inf}$: Distância entre pontos travados à flambagem lateral. **$L_{b,inf}$** : *0.250* m

r_y: Raio de giração da seção em relação ao eixo principal de inércia perpendicular ao eixo de flexão. **r_y** : *10.03* cm

l_p : *42.38*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

M_{pl} : *3532.67* kN

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Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *3211.52* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. b_f : *400.00* mm

t_f: Espessura da mesa comprimida. t_f : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(d) Estado-limite último de flambagem local da alma, FLA (ABNT NBR 8800:2008, Anexo G):

18.48 £ **90.53**

M_{Rd} : *3211.52* kN·m

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *462.00* mm

t_w: Espessura da alma. t_w : *25.00* mm

l_p : *90.53*

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Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência à flexão eixo Y (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.013*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N40, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

M_{Sd}^-: Momento fletor solicitante de cálculo, desfavorável. M_{Sd}^- : *14.57* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: M_{Rd} : *1105.42* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *1105.42* kN·m

Onde:

W_y: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_y : *2349.67* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

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M_{Rd} : *1126.64* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. b_f : *400.00* mm

t_f: Espessura da mesa comprimida. t_f : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *1239.30* kN

Onde:

Z_y: Módulo de resistência plástico. Z_y : *3592.19* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência ao esforço cortante X (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.001*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. V_{Sd} : *6.38* kN

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A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

4.55 £ 29.01

$\mathbf{V_{Rd}}$: *6624.00* kN

Onde:

$\mathbf{l}$: *4.55*

Sendo:

$\mathbf{b_f}$: Largura das mesas. $\mathbf{b_f}$: *400.00* mm

$\mathbf{t_f}$: Espessura das mesas. $\mathbf{t_f}$: *44.00* mm

$\mathbf{l_p}$: *29.01*

Sendo:

$\mathbf{k_v}$: Coeficiente de flambagem. $\mathbf{k_v}$: *1.20*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{V_{pl}}$: *7286.40* kN

Sendo:

$\mathbf{A_w}$: Área efetiva ao cisalhamento.

$\mathbf{A_w}$: *352.00* cm²

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

Resistência ao esforço cortante Y (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.877*** ✓

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O esforço solicitante de cálculo desfavorável produz-se no nó N40, para a combinação de ações
1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-B2 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{Sd}** : *2268.43* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

18.48 £ **59.22**

V_{Rd} : *2587.50* kN

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *462.00* mm

t_w: Espessura da alma. **t_w** : *25.00* mm

l_p : *59.22*

Sendo:

k_v: Coeficiente de flambagem. **k_v** : *5.00*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

V_{pl} : *2846.25* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *137.50* cm²

d: Altura total da seção transversal. **d** : *550.00* mm

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Os enrijecedores transversais não são levados em conta, já que não cumprem os seguintes requisitos:

18.75 £ **13.48**

Onde:

b: Largura dos elementos que formam os enrijecedores. **b** : *187.50* mm

t: Espessura dos elementos que formam os enrijecedores. **t** : *10.00* mm

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

5332.03 ³ **390.63**

Onde:

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I_s : *5332.03* cm4

Sendo:

b: Largura dos elementos que formam os enrijecedores. **b** : *187.50* mm
t: Espessura dos elementos que formam os enrijecedores. **t** : *10.00* mm
t_w: Espessura da alma. t_w : *25.00* mm

j : *0.50*

Sendo:

a: Distância entre as linhas de centro dos enrijecedores transversais adjacentes. **a** : *500.00* mm
h: Largura dos elementos que formam os enrijecedores. **h** : *462.00* mm

Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Deve satisfazer:

h : ***0.368*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N40, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-B2 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. $N_{c,Sd}$: *826.31* kN
$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{x,Sd}$: *1076.25* kN·m
$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{y,Sd}$: *4.77* kN·m

0.056 < **0.200**

h : *0.368*

Onde:

$N_{c,Rd}$: Força axial resistente de cálculo de compressão (ABNT NBR 8800:2008, Artigo 5.3). $N_{c,Rd}$: *14655.83* kN
$M_{x,Rd}$,$M_{y,Rd}$: Momentos fletores resistentes de cálculo, respectivamente em relação aos eixos X e Y da seção transversal (ABNT NBR 8800:2008, Artigo 5.4.2). $M_{x,Rd}$: *3211.52* kN·m
$M_{y,Rd}$: *1105.42* kN·m

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

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Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

h : ***0.049*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. **T_{Sd}** : *5.28* kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

T_{Rd} : *107.44* kN·m

Onde:

W_T: Módulo de resistência à torção. **W_T** : *570.95* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

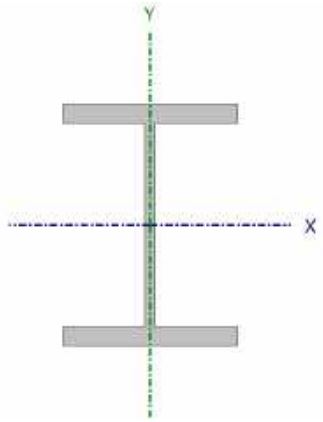
Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Não há interação entre os dois esforços cortantes nem entre o momento torsor, esforço axial, momentos fletores e esforços cortantes. Portanto, a verificação não é necessária.

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Barra N57/N187

Perfil: CVS 550x367 (Espaç. entre enrijecedores: 500 mm. Espessura: 10 mm)
Material: Aço (A-588 345MPa)



Nós		Comprimento (m)	Características mecânicas			
Inicial	Final		Área (cm²)	I_x(1) (cm4)	I_y(1) (cm4)	I_t(2) (cm4)
N57	N187	0.250	467.50	246423.56	46993.49	2512.20

Notas:
(1) Inércia em relação ao eixo indicado
(2) Momento de inércia à torção uniforme

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	1.00	1.00	1.00	1.00
L_K	0.250	0.250	0.250	0.250
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

O índice de esbeltez das barras comprimidas, tomado como o maior relação entre o comprimento de flambagem e o raio de giração, não deve ser superior a 200.

l : *2.5* ✓

Onde:

l: Índice de esbeltez.

λ_x : *1.1*

λ_y : *2.5*

Sendo:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *0.250* m

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *0.250* m

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *22.96* cm

r_y : *10.03* cm

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Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

A verificação não será executada, já que não existe esforço axial de tração.

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

Deve satisfazer:

h : ***0.063*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N57, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-E1+TB-450-E2 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. **$N_{c,Sd}$** : *917.30* kN

A força axial de compressão resistente de cálculo, $N_{c,Rd}$, deve ser determinada pela expressão:

$N_{c,Rd}$: *14655.83* kN

Onde:

c: Fator de redução total associado à resistência à compressão. **c** : *1.000*

Q: Fator de redução total associado à flambagem local. **Q** : *1.000*

A_g: Área bruta da seção transversal da barra. **A_g** : *467.50* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Fator de redução c: (ABNT NBR 8800:2008, Artigo 5.3.3)

c : *1.000*

Onde:

l_0: Índice de esbeltez reduzido.

l_0 : *0.033*

Sendo:

Q: Fator de redução total associado à flambagem local. **Q** : *1.000*

A_g: Área bruta da seção transversal da barra. **A_g** : *467.50* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

N_e: Força axial de flambagem elástica. **N_e** : *14841828.85* kN

Força axial de flambagem elástica: (ABNT NBR 8800:2008, Anexo E)

A força axial de flambagem elástica, N_e, de uma barra com seção transversal duplamente simétrica ou simétrica em relação a um ponto, é dada pelo menor valor entre os obtidos por (a), (b) e (c): **N_e** : *14841828.85* kN

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(a) Para flambagem por flexão em relação ao eixo principal de inércia X da seção transversal:

N_{ex} : *77827297.15* kN

Onde:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *0.250* m

I_x: Momento de inércia da seção transversal em relação ao eixo X. — I_x : *246423.56* cm4

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

(b) Para flambagem por flexão em relação ao eixo principal de inércia Y da seção transversal:

N_{ey} : *14841828.85* kN

Onde:

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *0.250* m

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — I_y : *46993.49* cm4

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

(c) Para flambagem por torção em relação ao eixo longitudinal Z:

N_{ez} : *15167295.08* kN

Onde:

$K_z \cdot L_z$: Comprimento de flambagem por torção. — $K_z \cdot L_z$: *0.250* m

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

C_w: Constante de empenamento da seção transversal. — C_w : *30080062.75* cm6

G: Módulo de elasticidade transversal do aço. — **G** : *77000* MPa

J: Constante de torção da seção transversal. — **J** : *2512.20* cm4

r_0: Raio de giração polar da seção bruta em relação ao centro de cisalhamento.

r_0 : *25.05* cm

Onde:

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *22.96* cm

r_y : *10.03* cm

X_0,Y_0: Coordenadas do centro de cisalhamento na direção dos eixos principales X, Y, respectivamente. — X_0 : *0.00* mm

Y_0 : *0.00* mm

Flambagem local de barras axialmente comprimidas: (ABNT NBR 8800:2008, Anexo F)

Não se aplica nenhuma redução, já que todos os elementos componentes da seção transversal possuem relações entre largura e espessura (b/t) que não superam os valores limite dados na Tabela F.1.

Mesa: Elemento do Grupo 5 da Tabela F.1.

4.55 £ **13.43**

Sendo:

(b/t): Relação entre largura e espessura. — **(b/t)** : *4.55*

Onde:

b: Largura. — **b** : *200.00* mm

t: Espessura. — **t** : *44.00* mm

$(b/t)_{lim}$: Relação limite entre largura e espessura.

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$(b/t)_{lim}$: *13.43*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

k_c : *0.76*

h: Altura da alma. **h** : *462.00* mm

t_w: Espessura da alma. t_w : *25.00* mm

Alma: Elemento do Grupo 2 da Tabela F.1.

18.48 £ **35.87**

Sendo:

(b/t): Relação entre largura e espessura. **(b/t)** : *18.48*

Onde:

b: Largura. **b** : *462.00* mm

t: Espessura. **t** : *25.00* mm

$(b/t)_{lim}$: Relação limite entre largura e espessura.

$(b/t)_{lim}$: *35.87*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

Resistência à flexão eixo X (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.339*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N57, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-E1+TB-450-E2 [NL].

M_{Sd}^-: Momento fletor solicitante de cálculo, desfavorável. M_{Sd}^- : *1088.10* kN·m

Já que 'l £ l_r', deve-se considerar viga de alma não-esbelta (ABNT NBR 8800:2008, Anexo G). **18.48** £ **137.24**

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *462.00* mm

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t_w: Espessura da alma. t_w : *25.00* mm

l_r : *137.24*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

O momento fletor resistente de cálculo M_{Rd} de vigas de alma não-esbelta deve ser tomado como o menor valor entre os obtidos nas seguintes seções: M_{Rd} : *3211.52* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *4215.68* kN·m

Onde:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_x : *8960.86* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

2.49 £ **42.38**

M_{Rd} : *3211.52* kN·m

Onde:

l : *2.49*

Sendo:

$L_{b,inf}$: Distância entre pontos travados à flambagem lateral. $L_{b,inf}$: *0.250* m

r_y: Raio de giração da seção em relação ao eixo principal de inércia perpendicular ao eixo de flexão. r_y : *10.03* cm

l_p : *42.38*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

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M_{Rd} : *3211.52* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. b_f : *400.00* mm

t_f: Espessura da mesa comprimida. t_f : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(d) Estado-limite último de flambagem local da alma, FLA (ABNT NBR 8800:2008, Anexo G):

18.48 £ **90.53**

M_{Rd} : *3211.52* kN·m

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. h : *462.00* mm

t_w: Espessura da alma. t_w : *25.00* mm

l_p : *90.53*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

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Onde:

Z_x: Módulo de resistência plástico. — Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

Resistência à flexão eixo Y (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.014*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N57, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

M_{Sd}^+: Momento fletor solicitante de cálculo, desfavorável. — M_{Sd}^+ : *15.07* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: — M_{Rd} : *1105.42* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *1105.42* kN·m

Onde:

W_y: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. — W_y : *2349.67* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

(b) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *1126.64* kN·m

Onde:

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l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. — **b_f** : *400.00* mm

t_f: Espessura da mesa comprimida. — **t_f** : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. — **f_y** : *345.00* MPa

M_{pl} : *1239.30* kN

Onde:

Z_y: Módulo de resistência plástico. — **Z_y** : *3592.19* cm³

f_y: Resistência ao escoamento do aço. — **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — **g_{a1}** : *1.10*

Resistência ao esforço cortante X (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.001*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. — **V_{Sd}** : *6.59* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

4.55 £ **29.01**

V_{Rd} : *6624.00* kN

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Onde:

l : *4.55*

Sendo:

b_f: Largura das mesas. **b_f** : *400.00* mm

t_f: Espessura das mesas. **t_f** : *44.00* mm

l_p : *29.01*

Sendo:

k_v: Coeficiente de flambagem. **k_v** : *1.20*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

V_{pl} : *7286.40* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *352.00* cm²

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência ao esforço cortante Y (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.871*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N57, para a combinação de ações
1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-E1+TB-450-E2 [NL].

V_{sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{sd}** : *2253.91* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

18.48 £ **59.22**

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V_{Rd} : *2587.50* kN

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. — h : *462.00* mm

t_w: Espessura da alma. — t_w : *25.00* mm

l_p : *59.22*

Sendo:

k_v: Coeficiente de flambagem. — k_v : *5.00*

E: Módulo de elasticidade do aço. — E : *200000* MPa

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

V_{pl} : *2846.25* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *137.50* cm²

d: Altura total da seção transversal. — d : *550.00* mm

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

Os enrijecedores transversais não são levados em conta, já que não cumprem os seguintes requisitos:

18.75 £ **13.48**

Onde:

b: Largura dos elementos que formam os enrijecedores. — b : *187.50* mm

t: Espessura dos elementos que formam os enrijecedores. — t : *10.00* mm

E: Módulo de elasticidade do aço. — E : *200000* MPa

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

5332.03 ³ **390.63**

Onde:

I_s : *5332.03* cm4

Sendo:

b: Largura dos elementos que formam os enrijecedores. — b : *187.50* mm

t: Espessura dos elementos que formam os enrijecedores. — t : *10.00* mm

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t_w: Espessura da alma. **t_w** : *25.00* mm

j : *0.50*

Sendo:

a: Distância entre as linhas de centro dos enrijecedores transversais adjacentes. **a** : *500.00* mm

h: Largura dos elementos que formam os enrijecedores. **h** : *462.00* mm

Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Deve satisfazer:

h : ***0.375*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N57, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-E1+TB-450-E2 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. **$N_{c,Sd}$** : *917.30* kN

$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. **$M_{x,Sd}^{*}$** : *1088.10* kN·m

$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. **$M_{y,Sd}^{*}$** : *5.52* kN·m

0.063 < **0.200**

h : *0.375*

Onde:

$N_{c,Rd}$: Força axial resistente de cálculo de compressão (ABNT NBR 8800:2008, Artigo 5.3). **$N_{c,Rd}$** : *14655.83* kN

$M_{x,Rd}$,$M_{y,Rd}$: Momentos fletores resistentes de cálculo, respectivamente em relação aos eixos X e Y da seção transversal (ABNT NBR 8800:2008, Artigo 5.4.2). **$M_{x,Rd}$** : *3211.52* kN·m

$M_{y,Rd}$: *1105.42* kN·m

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

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h : ***0.049*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. **T_{Sd}** : *5.25* kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

T_{Rd} : *107.44* kN·m

Onde:

W_T: Módulo de resistência à torção. **W_T** : *570.95* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

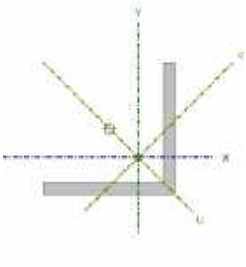
Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Não há interação entre os dois esforços cortantes nem entre o momento torsor, esforço axial, momentos fletores e esforços cortantes. Portanto, a verificação não é necessária.

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Barra N4/N82

Perfil: L 300 x 300 x 28
Material: Aço (A-572 345MPa)



Nós		Comprimento (m)	Características mecânicas							
Inicial	Final		Área (cm²)	I_x(1) (cm4)	I_y(1) (cm4)	I_{xy}(4) (cm4)	I_t(2) (cm4)	x_g(3) (mm)	y_g(3) (mm)	a(5) (graus)
N4	N82	6.996	159.10	13450.00	13450.00	7975.00	418.55	65.30	-65.30	-45.0

Notas:
(1) *Inércia em relação ao eixo indicado*
(2) *Momento de inércia à torção uniforme*
(3) *Coordenadas do centro de gravidade*
(4) *Produto de inércia*
(5) *É o ângulo que forma o eixo principal de inércia U em relação ao eixo X, positivo no sentido anti-horário.*

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	0.00	0.00	0.00	0.00
L_K	0.000	0.000	0.000	0.000
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

A verificação não procede, já que os comprimentos de flambagem por flexão são nulos.

Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

Deve satisfazer:

h : ***0.012*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N82, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+Laje+Pavimentação+Recapeamento+1.4·Vento180 [NL].

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. **$N_{t,Sd}$** : *58.81* kN

A força axial de tração resistente de cálculo, $N_{t,Rd}$, deve ser determinada pela expressão:

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$N_{t,Rd}$: *4989.95* kN

Onde:

A_g: Área bruta da seção transversal da barra. — **A_g** : *159.10* cm²

f_y: Resistência ao escoamento do aço. — **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — **g_{a1}** : *1.10*

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

Deve satisfazer:

h : ***0.008*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N4, para a combinação de ações PP+GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. — **$N_{c,Sd}$** : *41.85* kN

A força axial de compressão resistente de cálculo, $N_{c,Rd}$, deve ser determinada pela expressão:

$N_{c,Rd}$: *4989.95* kN

Onde:

c: Fator de redução total associado à resistência à compressão. — **c** : *1.000*

Q: Fator de redução total associado à flambagem local. — **Q** : *1.000*

A_g: Área bruta da seção transversal da barra. — **A_g** : *159.10* cm²

f_y: Resistência ao escoamento do aço. — **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — **g_{a1}** : *1.10*

Fator de redução c: (ABNT NBR 8800:2008, Artigo 5.3.3)

Não se aplica nenhuma redução, já que os comprimentos efetivos de flambagem são nulos.

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Flambagem local de barras axialmente comprimidas: (ABNT NBR 8800:2008, Anexo F)
Não se aplica nenhuma redução, já que todos os elementos componentes da seção transversal possuem relações entre largura e espessura (b/t) que não superam os valores limite dados na Tabela F.1.

Mesa: Elemento do Grupo 3 da Tabela F.1.

10.71 £ **10.83**

Sendo:

(b/t): Relação entre largura e espessura. **(b/t)** : *10.71*

Onde:

b: Largura. **b** : *300.00* mm

t: Espessura. **t** : *28.00* mm

$\mathbf{(b/t)_{lim}}$: Relação limite entre largura e espessura.

$\mathbf{(b/t)_{lim}}$: *10.83*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

Resistência à flexão eixo U (ABNT NBR 8800:2008, Artigo 5.4.2)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : ***0.366*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N4, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

$\mathbf{M_{Sd}}$: Momento fletor solicitante de cálculo, desfavorável.

$\mathbf{M_{u,Sd}}$: *173.88* kN·m

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Onde:

$\mathbf{M_{x,Sd}}$: Momento fletor solicitante de cálculo, desfavorável. $\mathbf{M_{x,Sd}^{-}}$: *162.34* kN·m

$\mathbf{M_{y,Sd}}$: Momento fletor solicitante de cálculo, desfavorável. $\mathbf{M_{y,Sd}^{-}}$: *83.56* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: $\mathbf{M_{Rd}}$: *475.15* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

$\mathbf{M_{Rd}}$: *475.15* kN·m

Onde:

$\mathbf{W_u}$: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. $\mathbf{W_u}$: *1009.98* cm³

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

Não é necessário, pois o comprimento de flambagem lateral é nulo.

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que a seção considera-se compacta.

Já que se cumpre 'l £ l_p', não é necessário realizar esta verificação. **10.71** £ **13.00**

Onde:

$\mathbf{l}$: *10.71*

Sendo:

b: Largura da aba da cantoneira. **b** : *300.00* mm

t: Espessura da cantoneira. **t** : *28.00* mm

$\mathbf{l_p}$: *13.00*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

Resistência à flexão eixo V (ABNT NBR 8800:2008, Artigo 5.4.2)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

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Deve satisfazer:

h : ***0.240*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N4, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

M_{Sd}: Momento fletor solicitante de cálculo, desfavorável.

$M_{v,Sd}^{+}$: *55.70* kN·m

Onde:

$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. **$M_{x,Sd}^{-}$** : *162.34* kN·m

$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. **$M_{y,Sd}^{-}$** : *83.56* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: **M_{Rd}** : *232.02* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *232.02* kN·m

Onde:

W_v: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. **W_v** : *493.17* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que o eixo de flexão não é o de maior inércia.

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que a seção considera-se compacta.

Já que se cumpre 'l £ l_p', não é necessário realizar esta verificação. **10.71** £ **13.00**

Onde:

l : *10.71*

Sendo:

b: Largura da aba da cantoneira. **b** : *300.00* mm

t: Espessura da cantoneira. **t** : *28.00* mm

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l_p : *13.00*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

Resistência ao esforço cortante U (ABNT NBR 8800:2008, Artigo 5.4.3)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : ***0.008*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N4, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável.

$V_{u,Sd}^{+}$: *17.82* kN

Onde:

$V_{x,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{x,Sd}^{-}$: *22.15* kN

$V_{y,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{y,Sd}^{-}$: *47.35* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

V_{Rd} : *2235.49* kN

Onde:

V_{pl} : *2459.03* kN

Sendo:

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$\mathbf{A_w}$: Área efetiva ao cisalhamento.

$\mathbf{A_w}$: *118.79* cm²

Onde:

$\mathbf{b_{horz}}$: Largura da aba horizontal. $\mathbf{b_{horz}}$: *300.00* mm

$\mathbf{t_{horz}}$: Espessura da aba horizontal. $\mathbf{t_{horz}}$: *28.00* mm

$\mathbf{b_{vert}}$: Largura da aba vertical. $\mathbf{b_{vert}}$: *300.00* mm

$\mathbf{t_{vert}}$: Espessura da aba vertical. $\mathbf{t_{vert}}$: *28.00* mm

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

Resistência ao esforço cortante V (ABNT NBR 8800:2008, Artigo 5.4.3)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : ***0.022*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N4, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

$\mathbf{V_{Sd}}$: Esforço cortante solicitante de cálculo, desfavorável.

$\mathbf{V_{v,Sd}^-}$: *49.14* kN

Onde:

$\mathbf{V_{x,Sd}}$: Esforço cortante solicitante de cálculo, desfavorável. $\mathbf{V_{x,Sd}^-}$: *22.15* kN

$\mathbf{V_{y,Sd}}$: Esforço cortante solicitante de cálculo, desfavorável. $\mathbf{V_{y,Sd}^-}$: *47.35* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

$\mathbf{V_{Rd}}$: *2235.49* kN

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Onde:

$\mathbf{V_{pl}}$: *2459.03* kN

Sendo:

$\mathbf{A_w}$: Área efetiva ao cisalhamento.

$\mathbf{A_w}$: *118.79* cm²

Onde:

$\mathbf{b_{horz}}$: Largura da aba horizontal. $\mathbf{b_{horz}}$: *300.00* mm

$\mathbf{t_{horz}}$: Espessura da aba horizontal. $\mathbf{t_{horz}}$: *28.00* mm

$\mathbf{b_{vert}}$: Largura da aba vertical. $\mathbf{b_{vert}}$: *300.00* mm

$\mathbf{t_{vert}}$: Espessura da aba vertical. $\mathbf{t_{vert}}$: *28.00* mm

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

$\mathbf{h}$: ***0.015*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

$\mathbf{T_{Sd}}$: Momento de torção solicitante de cálculo, desfavorável. $\mathbf{T_{Sd}}$: *0.41* kN·m

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O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

$\mathbf{T_{Rd}}$: *28.13* kN·m

Onde:

$\mathbf{W_T}$: Módulo de resistência à torção. $\mathbf{W_T}$: *149.48* cm³

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Deve satisfazer:

h : ***0.869*** ✓

h : ***0.009*** ✓

(Já que a norma não proporciona uma verificação da tensão total para seções submetidas a torção combinada com outros esforços, considera-se que este elemento também deve cumprir os seguintes critérios para a tensão de Von Mises:)

h : ***0.790*** ✓

O coeficiente de aproveitamento desfavorável produz-se no nó N4, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL] no ponto da seção transversal de coordenadas U = -111.02 mm, V = 192.33 mm em relação aos eixos principais de inércia.

As tensões normais s_{Sd} são dadas por:

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σ_{Sd} : *272.66* MPa

Onde:

σ_{NSd} : *3.62* MPa

Sendo:

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. — **$N_{t,Sd}$** : *57.54* kN

A_g: Área bruta da seção transversal da barra. — **A_g** : *159.10* cm²

$\sigma_{Mu,Sd}$: *156.09* MPa

Sendo:

$M_{u,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{u,Sd}^-$** : *173.88* kN·m

I_u: Momento de inércia da seção transversal em relação ao eixo U. — **I_u** : *21425.00* cm4

V: Coordenada, em relação ao eixo V, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **V** : *192.33* mm

$\sigma_{Mv,Sd}$: *112.95* MPa

Sendo:

$M_{v,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{v,Sd}^+$** : *55.70* kN·m

I_v: Momento de inércia da seção transversal em relação ao eixo V. — **I_v** : *5475.00* cm4

U: Coordenada, em relação ao eixo U, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **U** : *-111.02* mm

As tensões tangenciais t_{Sd} são dadas por:

t_{Sd} : *-1.65* MPa

Onde:

$t_{Vu,Sd}$: *0.00* MPa

Sendo:

$V_{u,Sd}^+$: Esforço cortante solicitante de cálculo, desfavorável. — **$V_{u,Sd}^+$** : *17.82* kN

S_v: Momento estático, em relação ao eixo V, da parte da seção situada a um lado do ponto de verificação. — **S_v** : *0.00* cm³

I_v: Momento de inércia da seção transversal em relação ao eixo V. — **I_v** : *5475.00* cm4

t: Espessura. — **t** : *28.00* mm

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$t_{Vv,Sd}$: *0.00* MPa

Sendo:

$V_{v,Sd}^{-}$: Esforço cortante solicitante de cálculo, desfavorável. — $V_{v,Sd}^{-}$: *49.14* kN

S_u: Momento estático, em relação ao eixo U, da parte da seção situada a um lado do ponto de verificação. — S_u : *0.00* cm³

I_u: Momento de inércia da seção transversal em relação ao eixo U. — I_u : *21425.00* cm4

t: Espessura. — **t** : *28.00* mm

t_{TSd} : *-1.65* MPa

Sendo:

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. — T_{Sd} : *0.25* kN·m

J: Constante de torção da seção transversal. — **J** : *418.55* cm4

t: Espessura. — **t** : *28.00* mm

As tensões totais f_{Sd} são dadas por:

f_{Sd} : *272.67* MPa

A tensão resistente de cálculo, s_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): s_{Rd} : *313.64* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3). — **c** : *1.000*

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

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A tensão resistente de cálculo, t_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): $\mathbf{t_{Rd}}$: *180.50* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão de cisalhamento:

$\mathbf{t_{Rd}}$: *188.18* MPa

Onde:

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão cisalhamento:

$\mathbf{t_{Rd}}$: *180.50* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3).

c : *0.959*

Sendo:

$\mathbf{l_0}$: *0.316*

$\mathbf{t_e}$: *2079.09* MPa

$\mathbf{s_E}$: *1732.57* MPa

Onde:

$\mathbf{k_v}$: Coeficiente de flambagem (ABNT NBR 8800:2008, Artigo 5.4.3). $\mathbf{k_v}$: *1.20*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

n: Coeficiente de Poisson. **n** : *0.30*

t: Espessura. **t** : *28.00* mm

h: Largura. **h** : *286.00* mm

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

A tensão resistente de cálculo, f_{Rd} é dada por:

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f_{Rd} : *345.00* MPa

Onde:

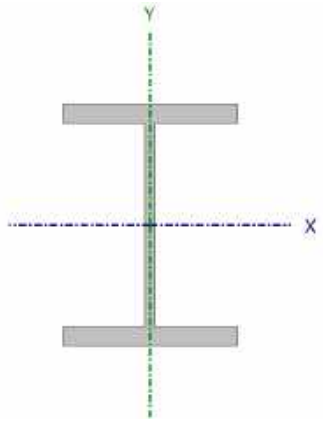
f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

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Barra N56/N224

Perfil: CVS 550x367 (Espaç. entre enrijecedores: 500 mm. Espessura: 10 mm)
Material: Aço (A-588 345MPa)



Nós		Comprimento (m)	Características mecânicas			
Inicial	Final		Área (cm²)	I_x(1) (cm4)	I_y(1) (cm4)	I_t(2) (cm4)
N56	N224	0.250	467.50	246423.56	46993.49	2512.20

Notas:
(1) Inércia em relação ao eixo indicado
(2) Momento de inércia à torção uniforme

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	1.00	1.00	1.00	1.00
L_K	0.250	0.250	0.250	0.250
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

O índice de esbeltez das barras comprimidas, tomado como o maior relação entre o comprimento de flambagem e o raio de giração, não deve ser superior a 200.

l : *2.5* ✓

Onde:

l: Índice de esbeltez.

λ_x : *1.1*

λ_y : *2.5*

Sendo:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *0.250* m

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *0.250* m

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *22.96* cm

r_y : *10.03* cm

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Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

A verificação não será executada, já que não existe esforço axial de tração.

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

Deve satisfazer:

h : ***0.062*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N56, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-E1+TB-450-E2 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. **$N_{c,Sd}$** : *909.55* kN

A força axial de compressão resistente de cálculo, $N_{c,Rd}$, deve ser determinada pela expressão:

$N_{c,Rd}$: *14655.83* kN

Onde:

c: Fator de redução total associado à resistência à compressão. **c** : *1.000*

Q: Fator de redução total associado à flambagem local. **Q** : *1.000*

A_g: Área bruta da seção transversal da barra. **A_g** : *467.50* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Fator de redução c: (ABNT NBR 8800:2008, Artigo 5.3.3)

c : *1.000*

Onde:

l_0: Índice de esbeltez reduzido.

l_0 : *0.033*

Sendo:

Q: Fator de redução total associado à flambagem local. **Q** : *1.000*

A_g: Área bruta da seção transversal da barra. **A_g** : *467.50* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

N_e: Força axial de flambagem elástica. **N_e** : *14841828.85* kN

Força axial de flambagem elástica: (ABNT NBR 8800:2008, Anexo E)

A força axial de flambagem elástica, N_e, de uma barra com seção transversal duplamente simétrica ou simétrica em relação a um ponto, é dada pelo menor valor entre os obtidos por (a), (b) e (c): **N_e** : *14841828.85* kN

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(a) Para flambagem por flexão em relação ao eixo principal de inércia X da seção transversal:

N_{ex} : *77827297.15* kN

Onde:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *0.250* m

I_x: Momento de inércia da seção transversal em relação ao eixo X. — I_x : *246423.56* cm4

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

(b) Para flambagem por flexão em relação ao eixo principal de inércia Y da seção transversal:

N_{ey} : *14841828.85* kN

Onde:

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *0.250* m

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — I_y : *46993.49* cm4

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

(c) Para flambagem por torção em relação ao eixo longitudinal Z:

N_{ez} : *15167295.08* kN

Onde:

$K_z \cdot L_z$: Comprimento de flambagem por torção. — $K_z \cdot L_z$: *0.250* m

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

C_w: Constante de empenamento da seção transversal. — C_w : *30080062.75* cm6

G: Módulo de elasticidade transversal do aço. — **G** : *77000* MPa

J: Constante de torção da seção transversal. — **J** : *2512.20* cm4

r_0: Raio de giração polar da seção bruta em relação ao centro de cisalhamento.

r_0 : *25.05* cm

Onde:

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *22.96* cm

r_y : *10.03* cm

X_0,Y_0: Coordenadas do centro de cisalhamento na direção dos eixos principales X, Y, respectivamente. — X_0 : *0.00* mm

Y_0 : *0.00* mm

Flambagem local de barras axialmente comprimidas: (ABNT NBR 8800:2008, Anexo F)

Não se aplica nenhuma redução, já que todos os elementos componentes da seção transversal possuem relações entre largura e espessura (b/t) que não superam os valores limite dados na Tabela F.1.

Mesa: Elemento do Grupo 5 da Tabela F.1.

4.55 £ **13.43**

Sendo:

(b/t): Relação entre largura e espessura. — **(b/t)** : *4.55*

Onde:

b: Largura. — **b** : *200.00* mm

t: Espessura. — **t** : *44.00* mm

$(b/t)_{lim}$: Relação limite entre largura e espessura.

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$(b/t)_{lim}$: *13.43*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

k_c : *0.76*

h: Altura da alma. **h** : *462.00* mm

t_w: Espessura da alma. t_w : *25.00* mm

Alma: Elemento do Grupo 2 da Tabela F.1.

18.48 £ **35.87**

Sendo:

(b/t): Relação entre largura e espessura. **(b/t)** : *18.48*

Onde:

b: Largura. **b** : *462.00* mm

t: Espessura. **t** : *25.00* mm

$(b/t)_{lim}$: Relação limite entre largura e espessura.

$(b/t)_{lim}$: *35.87*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

Resistência à flexão eixo X (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.338*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N56, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-D1 [NL].

M_{Sd}^-: Momento fletor solicitante de cálculo, desfavorável. M_{Sd}^- : *1084.67* kN·m

Já que 'l £ l$_r$', deve-se considerar viga de alma não-esbelta (ABNT NBR 8800:2008, Anexo G). **18.48** £ **137.24**

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *462.00* mm

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t_w: Espessura da alma. t_w : *25.00* mm

l_r : *137.24*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

O momento fletor resistente de cálculo M_{Rd} de vigas de alma não-esbelta deve ser tomado como o menor valor entre os obtidos nas seguintes seções: M_{Rd} : *3211.52* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *4215.68* kN·m

Onde:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_x : *8960.86* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

2.49 £ **42.38**

M_{Rd} : *3211.52* kN·m

Onde:

l : *2.49*

Sendo:

$L_{b,inf}$: Distância entre pontos travados à flambagem lateral. $L_{b,inf}$: *0.250* m

r_y: Raio de giração da seção em relação ao eixo principal de inércia perpendicular ao eixo de flexão. r_y : *10.03* cm

l_p : *42.38*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

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M_{Rd} : *3211.52* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. b_f : *400.00* mm

t_f: Espessura da mesa comprimida. t_f : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(d) Estado-limite último de flambagem local da alma, FLA (ABNT NBR 8800:2008, Anexo G):

18.48 £ **90.53**

M_{Rd} : *3211.52* kN·m

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. h : *462.00* mm

t_w: Espessura da alma. t_w : *25.00* mm

l_p : *90.53*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3532.67* kN

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Onde:

Z_x: Módulo de resistência plástico. — Z_x : *10239.63* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

Resistência à flexão eixo Y (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.011*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N56, para a combinação de ações PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

M_{Sd}^-: Momento fletor solicitante de cálculo, desfavorável. — M_{Sd}^- : *11.71* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: — M_{Rd} : *1105.42* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *1105.42* kN·m

Onde:

W_y: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. — W_y : *2349.67* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

(b) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *1126.64* kN·m

Onde:

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l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. **b_f** : *400.00* mm

t_f: Espessura da mesa comprimida. **t_f** : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

M_{pl} : *1239.30* kN

Onde:

Z_y: Módulo de resistência plástico. **Z_y** : *3592.19* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência ao esforço cortante X (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.001*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{Sd}** : *5.31* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

4.55 £ **29.01**

V_{Rd} : *6624.00* kN

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Onde:

l : *4.55*

Sendo:

b_f: Largura das mesas. **b_f** : *400.00* mm

t_f: Espessura das mesas. **t_f** : *44.00* mm

l_p : *29.01*

Sendo:

k_v: Coeficiente de flambagem. **k_v** : *1.20*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

V_{pl} : *7286.40* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *352.00* cm²

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência ao esforço cortante Y (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.867*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N56, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-E1+TB-450-E2 [NL].

V_{sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{sd}** : *2243.35* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

18.48 £ **59.22**

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V_{Rd} : *2587.50* kN

Onde:

l : *18.48*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. — h : *462.00* mm

t_w: Espessura da alma. — t_w : *25.00* mm

l_p : *59.22*

Sendo:

k_v: Coeficiente de flambagem. — k_v : *5.00*

E: Módulo de elasticidade do aço. — E : *200000* MPa

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

V_{pl} : *2846.25* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *137.50* cm²

d: Altura total da seção transversal. — d : *550.00* mm

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

Os enrijecedores transversais não são levados em conta, já que não cumprem os seguintes requisitos:

18.75 £ **13.48**

Onde:

b: Largura dos elementos que formam os enrijecedores. — b : *187.50* mm

t: Espessura dos elementos que formam os enrijecedores. — t : *10.00* mm

E: Módulo de elasticidade do aço. — E : *200000* MPa

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

5332.03 ³ **390.63**

Onde:

I_s : *5332.03* cm4

Sendo:

b: Largura dos elementos que formam os enrijecedores. — b : *187.50* mm

t: Espessura dos elementos que formam os enrijecedores. — t : *10.00* mm

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t_w: Espessura da alma. t_w : *25.00* mm

j : *0.50*

Sendo:

a: Distância entre as linhas de centro dos enrijecedores transversais adjacentes. **a** : *500.00* mm

h: Largura dos elementos que formam os enrijecedores. **h** : *462.00* mm

Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Deve satisfazer:

h : ***0.369*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N56, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-D1 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. $N_{c,Sd}$: *906.32* kN

$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{x,Sd}$: *1084.67* kN·m

$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{y,Sd}$: *0.48* kN·m

0.062 < **0.200**

h : *0.369*

Onde:

$N_{c,Rd}$: Força axial resistente de cálculo de compressão (ABNT NBR 8800:2008, Artigo 5.3). $N_{c,Rd}$: *14655.83* kN

$M_{x,Rd}$, $M_{y,Rd}$: Momentos fletores resistentes de cálculo, respectivamente em relação aos eixos X e Y da seção transversal (ABNT NBR 8800:2008, Artigo 5.4.2). $M_{x,Rd}$: *3211.52* kN·m

$M_{y,Rd}$: *1105.42* kN·m

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

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h : ***0.045*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. **T_{Sd}** : *4.87* kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

T_{Rd} : *107.44* kN·m

Onde:

W_T: Módulo de resistência à torção. **W_T** : *570.95* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

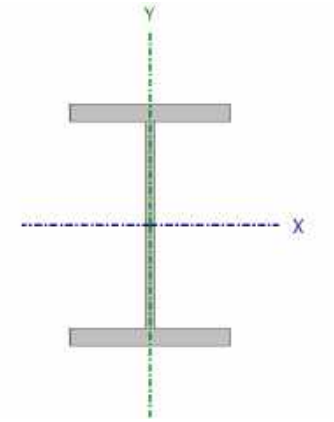
Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Não há interação entre os dois esforços cortantes nem entre o momento torsor, esforço axial, momentos fletores e esforços cortantes. Portanto, a verificação não é necessária.

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Barra N194/N3

Perfil: CVS 600x367 (Espaç. entre enrijecedores: 500 mm. Espessura: 1 mm)
Material: Aço (A-588 345MPa)



Nós		Comprimento (m)	Características mecânicas			
Inicial	Final		Área (cm²)	I_x[(1)] (cm4)	I_y[(1)] (cm4)	I_t[(2)] (cm4)
N194	N3	0.250	466.69	297661.55	46981.29	2463.39

Notas:
(1) Inércia em relação ao eixo indicado
(2) Momento de inércia à torção uniforme

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	1.00	1.00	1.00	1.00
L_K	0.250	0.250	0.250	0.250
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

A verificação não procede, já que não há força axial de compressão.

Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

Deve satisfazer:

h : *0.156* ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N3, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. **$N_{t,Sd}$** : *2276.39* kN

A força axial de tração resistente de cálculo, $N_{t,Rd}$, deve ser determinada pela expressão:

$N_{t,Rd}$: *14637.03* kN

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Onde:

A_g: Área bruta da seção transversal da barra. A_g : *466.69* cm²

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

A verificação não será executada, já que não existe esforço axial de compressão.

Resistência à flexão eixo X (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.127*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N3, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

M_{Sd}^+: Momento fletor solicitante de cálculo, desfavorável. M_{Sd}^+ : *448.25* kN·m

Já que 'l £ l,', deve-se considerar viga de alma não-esbelta (ABNT NBR 8800:2008, Anexo G). **22.86** £ **137.24**

Onde:

l : *22.86*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *512.00* mm

t_w: Espessura da alma. t_w : *22.40* mm

l_r : *137.24*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

O momento fletor resistente de cálculo M_{Rd} de vigas de alma não-esbelta deve ser tomado como o menor valor entre os obtidos nas seguintes seções: M_{Rd} : *3529.54* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *4667.87* kN·m

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Onde:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. — W_x : *9922.05* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

2.49 £ **42.38**

M_{Rd} : *3529.54* kN·m

Onde:

l : *2.49*

Sendo:

$L_{b,sup}$: Distância entre pontos travados à flambagem lateral. — $L_{b,sup}$: *0.250* m

r_y: Raio de giração da seção em relação ao eixo principal de inércia perpendicular ao eixo de flexão. — r_y : *10.03* cm

l_p : *42.38*

Sendo:

E: Módulo de elasticidade do aço. — E : *200000* MPa

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

M_{pl} : *3882.49* kN

Onde:

Z_x: Módulo de resistência plástico. — Z_x : *11253.61* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *3529.54* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. — b_f : *400.00* mm

t_f: Espessura da mesa comprimida. — t_f : *44.00* mm

l_p : *9.15*

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Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3882.49* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *11253.61* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(d) Estado-limite último de flambagem local da alma, FLA (ABNT NBR 8800:2008, Anexo G):

22.86 £ **90.53**

M_{Rd} : *3529.54* kN·m

Onde:

l : *22.86*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *512.00* mm

t_w: Espessura da alma. t_w : *22.40* mm

l_p : *90.53*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *3882.49* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *11253.61* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência à flexão eixo Y (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

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h : *0.059* ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N3, para a combinação de ações
1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

M_{Sd}^+: Momento fletor solicitante de cálculo, desfavorável. **M_{Sd}^+** : *64.70* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: **M_{Rd}** : *1105.13* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *1105.13* kN·m

Onde:

W_y: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. **W_y** : *2349.06* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

(b) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

4.55 £ **9.15**

M_{Rd} : *1124.14* kN·m

Onde:

l : *4.55*

Sendo:

b_f: Largura da mesa comprimida. **b_f** : *400.00* mm
t_f: Espessura da mesa comprimida. **t_f** : *44.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa
f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

M_{pl} : *1236.56* kN

Onde:

Z_y: Módulo de resistência plástico. **Z_y** : *3584.23* cm³
f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

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Resistência ao esforço cortante X (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : *0.004* ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações
1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{Sd}** : *23.49* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

4.55 £ **29.01**

V_{Rd} : *6624.00* kN

Onde:

l : *4.55*

Sendo:

b_f: Largura das mesas. **b_f** : *400.00* mm

t_f: Espessura das mesas. **t_f** : *44.00* mm

l_p : *29.01*

Sendo:

k_v: Coeficiente de flambagem. **k_v** : *1.20*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

V_{pl} : *7286.40* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *352.00* cm²

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

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Resistência ao esforço cortante Y (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : *0.308* ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N194, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{Sd}** : *777.94* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

22.86 £ **59.22**

V_{Rd} : *2529.16* kN

Onde:

l : *22.86*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *512.00* mm

t_w: Espessura da alma. **t_w** : *22.40* mm

l_p : *59.22*

Sendo:

k_v: Coeficiente de flambagem. **k_v** : *5.00*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

V_{pl} : *2782.08* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *134.40* cm²

d: Altura total da seção transversal. **d** : *600.00* mm

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Os enrijecedores transversais não são levados em conta, já que não cumprem os seguintes requisitos:

188.80 £ **13.48**

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Onde:

b: Largura dos elementos que formam os enrijecedores.	**b** : *188.80*	mm
t: Espessura dos elementos que formam os enrijecedores.	**t** : *1.00*	mm
E: Módulo de elasticidade do aço.	**E** : *200000*	MPa
$\mathbf{f_y}$: Resistência ao escoamento do aço.	$\mathbf{f_y}$: *345.00*	MPa

533.24 ³ **349.23**

Onde:

$\mathbf{I_s}$: *533.24* cm4

Sendo:

b: Largura dos elementos que formam os enrijecedores.	**b** : *188.80*	mm
t: Espessura dos elementos que formam os enrijecedores.	**t** : *1.00*	mm
$\mathbf{t_w}$: Espessura da alma.	$\mathbf{t_w}$: *22.40*	mm

j : *0.62*

Sendo:

a: Distância entre as linhas de centro dos enrijecedores transversais adjacentes.	**a** : *500.00*	mm
h: Largura dos elementos que formam os enrijecedores.	**h** : *512.00*	mm

Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Deve satisfazer:

h : ***0.263*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N3, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

$\mathbf{N_{t,Sd}}$: Força axial de tração solicitante de cálculo, desfavorável.	$\mathbf{N_{t,Sd}}$: *2276.39*	kN
$\mathbf{M_{x,Sd}}$: Momento fletor solicitante de cálculo, desfavorável.	$\mathbf{M_{x,Sd}^+}$: *448.25*	kN·m
$\mathbf{M_{y,Sd}}$: Momento fletor solicitante de cálculo, desfavorável.	$\mathbf{M_{y,Sd}^+}$: *64.70*	kN·m

0.156 < **0.200**

h : *0.263*

Onde:

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$N_{t,Rd}$: Força axial resistente de cálculo de tração (ABNT NBR 8800:2008, Artigo 5.2). $N_{t,Rd}$: *14637.03* kN

$M_{x,Rd}$,$M_{y,Rd}$: Momentos fletores resistentes de cálculo, respectivamente em relação aos eixos X e Y da seção transversal (ABNT NBR 8800:2008, Artigo 5.4.2). $M_{x,Rd}$: *3529.54* kN·m
$M_{y,Rd}$: *1105.13* kN·m

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

h : ***0.793*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. T_{Sd} : *83.59* kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

T_{Rd} : *105.36* kN·m

Onde:

W_T: Módulo de resistência à torção. W_T : *559.86* cm³
f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

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Deve satisfazer:

h : ***0.206*** ✓

h : ***0.866*** ✓

(Já que a norma não proporciona uma verificação da tensão total para seções submetidas a torção combinada com outros esforços, considera-se que este elemento também deve cumprir os seguintes critérios para a tensão de Von Mises:)

h : ***0.832*** ✓

O coeficiente de aproveitamento desfavorável produz-se no nó N194, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL] no ponto da seção transversal de coordenadas X = 0.00 mm, Y = -278.00 mm em relação ao centro de gravidade.

As tensões normais s_{Sd} são dadas por:

s_{Sd} : *64.61* MPa

Onde:

s_{NSd} : *43.96* MPa

Sendo:

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. — **$N_{t,Sd}$** : *2051.34* kN

A_g: Área bruta da seção transversal da barra. — **A_g** : *466.69* cm²

$s_{Mx,Sd}$: *20.65* MPa

Sendo:

$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{x,Sd}^{+}$** : *221.16* kN·m

I_x: Momento de inércia da seção transversal em relação ao eixo X. — **I_x** : *297661.55* cm4

Y: Coordenada, em relação ao eixo Y, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **Y** : *-278.00* mm

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$\sigma_{My,Sd}$: *0.00* MPa

Sendo:

$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{y,Sd}^{+}$** : *30.64* kN·m

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — **I_y** : *46981.29* cm4

X: Coordenada, em relação ao eixo X, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **X** : *0.00* mm

As tensões tangenciais t_{Sd} são dadas por:

t_{Sd} : *-161.54* MPa

Onde:

$t_{Vx,Sd}$: *-0.33* MPa

Sendo:

$V_{x,Sd}^{-}$: Esforço cortante solicitante de cálculo, desfavorável. — **$V_{x,Sd}^{-}$** : *7.66* kN

S_y: Momento estático, em relação ao eixo Y, da parte da seção situada a um lado do ponto de verificação. — **S_y** : *-880.00* cm³

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — **I_y** : *46981.29* cm4

t: Espessura. — **t** : *44.00* mm

$t_{Vy,Sd}$: *-11.90* MPa

Sendo:

$V_{y,Sd}^{-}$: Esforço cortante solicitante de cálculo, desfavorável. — **$V_{y,Sd}^{-}$** : *637.24* kN

S_x: Momento estático, em relação ao eixo X, da parte da seção situada a um lado do ponto de verificação. — **S_x** : *-2446.40* cm³

I_x: Momento de inércia da seção transversal em relação ao eixo X. — **I_x** : *297661.55* cm4

t: Espessura. — **t** : *44.00* mm

t_{TSd} : *-149.31* MPa

Sendo:

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. — **T_{Sd}** : *83.59* kN·m

J: Constante de torção da seção transversal. — **J** : *2463.39* cm4

t: Espessura. — **t** : *44.00* mm

As tensões totais f_{Sd} são dadas por:

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f_{Sd} : *287.16* MPa

A tensão resistente de cálculo, s_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): s_{Rd} : *313.64* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3). **c** : *1.000*

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

A tensão resistente de cálculo, t_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): t_{Rd} : *186.64* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão de cisalhamento:

t_{Rd} : *188.18* MPa

Onde:

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão cisalhamento:

t_{Rd} : *186.64* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3).

c : *0.992*

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Sendo:

l_0 : *0.140*

t_e : *10498.66* MPa

s_E : *8748.88* MPa

Onde:

k_v: Coeficiente de flambagem (ABNT NBR 8800:2008, Artigo 5.4.3). — k_v : *1.20*

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

n: Coeficiente de Poisson. — **n** : *0.30*

t: Espessura. — **t** : *44.00* mm

h: Largura. — **h** : *200.00* mm

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

A tensão resistente de cálculo, f_{Rd} é dada por:

f_{Rd} : *345.00* MPa

Onde:

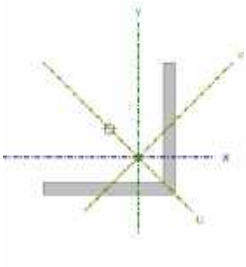
f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

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Barra N82/N3

Perfil: L 300 x 300 x 28
Material: Aço (A-572 345MPa)



Nós		Comprimento (m)	Características mecânicas							
Inicial	Final		Área (cm²)	I_x[1] (cm4)	I_y[1] (cm4)	I_{xy}[4] (cm4)	I_t[2] (cm4)	x_g[3] (mm)	y_g[3] (mm)	a[5] (graus)
N82	N3	5.621	159.10	13450.00	13450.00	7975.00	418.55	65.30	-65.30	-45.0

Notas:
[1] Inércia em relação ao eixo indicado
[2] Momento de inércia à torção uniforme
[3] Coordenadas do centro de gravidade
[4] Produto de inércia
[5] É o ângulo que forma o eixo principal de inércia U em relação ao eixo X, positivo no sentido anti-horário.

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	0.00	0.00	0.00	0.00
L_K	0.000	0.000	0.000	0.000
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

A verificação não procede, já que não há força axial de compressão.

Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

Deve satisfazer:

h : *0.008* ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N3, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-B1 [NL].

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. **$N_{t,Sd}$** : *40.64* kN

A força axial de tração resistente de cálculo, $N_{t,Rd}$, deve ser determinada pela expressão:

$N_{t,Rd}$: *4989.95* kN

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Onde:

A_g: Área bruta da seção transversal da barra. A_g : *159.10* cm²
f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

A verificação não será executada, já que não existe esforço axial de compressão.

Resistência à flexão eixo U (ABNT NBR 8800:2008, Artigo 5.4.2)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : ***0.386*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N82, para a combinação de ações
1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

M_{Sd}: Momento fletor solicitante de cálculo, desfavorável.

$M_{u,Sd}^{+}$: *183.35* kN·m

Onde:

$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{x,Sd}^{+}$: *161.56* kN·m
$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{y,Sd}^{+}$: *97.74* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: M_{Rd} : *475.15* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *475.15* kN·m

Onde:

W_u: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_u : *1009.98* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

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(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

Não é necessário, pois o comprimento de flambagem lateral é nulo.

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que a seção considera-se compacta.

Já que se cumpre '$l \leq l_p$', não é necessário realizar esta verificação. **10.71** ≤ **13.00**

Onde:

l : *10.71*

Sendo:

b: Largura da aba da cantoneira. **b** : *300.00* mm

t: Espessura da cantoneira. **t** : *28.00* mm

$\mathbf{l_p}$: *13.00*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

Resistência à flexão eixo V (ABNT NBR 8800:2008, Artigo 5.4.2)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : ***0.228*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N3, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

$\mathbf{M_{Sd}}$: Momento fletor solicitante de cálculo, desfavorável.

$\mathbf{M_{v,Sd}^+}$: *52.84* kN·m

Onde:

$\mathbf{M_{x,Sd}}$: Momento fletor solicitante de cálculo, desfavorável. $\mathbf{M_{x,Sd}^-}$: *164.78* kN·m

$\mathbf{M_{y,Sd}}$: Momento fletor solicitante de cálculo, desfavorável. $\mathbf{M_{y,Sd}^-}$: *90.06* kN·m

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O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: $\mathbf{M_{Rd}}$: *232.02* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

$\mathbf{M_{Rd}}$: *232.02* kN·m

Onde:

$\mathbf{W_v}$: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. $\mathbf{W_v}$: *493.17* cm³

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que o eixo de flexão não é o de maior inércia.

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que a seção considera-se compacta.

Já que se cumpre 'l £ l_p', não é necessário realizar esta verificação. **10.71** £ **13.00**

Onde:

l : *10.71*

Sendo:

b: Largura da aba da cantoneira. **b** : *300.00* mm

t: Espessura da cantoneira. **t** : *28.00* mm

$\mathbf{l_p}$: *13.00*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

Resistência ao esforço cortante U (ABNT NBR 8800:2008, Artigo 5.4.3)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

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h : ***0.009*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N3, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável.

$V_{u,Sd}^{-}$: *20.66* kN

Onde:

$V_{x,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. **$V_{x,Sd}^{+}$** : *32.07* kN

$V_{y,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. **$V_{y,Sd}^{+}$** : *61.29* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

V_{Rd} : *2235.49* kN

Onde:

V_{pl} : *2459.03* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *118.79* cm²

Onde:

b_{horz}: Largura da aba horizontal. **b_{horz}** : *300.00* mm

t_{horz}: Espessura da aba horizontal. **t_{horz}** : *28.00* mm

b_{vert}: Largura da aba vertical. **b_{vert}** : *300.00* mm

t_{vert}: Espessura da aba vertical. **t_{vert}** : *28.00* mm

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Resistência ao esforço cortante V (ABNT NBR 8800:2008, Artigo 5.4.3)

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Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : ***0.030*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N3, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável.

$V_{v,Sd}^{+}$: *66.02* kN

Onde:

$V_{x,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{x,Sd}^{+}$: *32.07* kN

$V_{y,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{y,Sd}^{+}$: *61.29* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

V_{Rd} : *2235.49* kN

Onde:

V_{pl} : *2459.03* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *118.79* cm²

Onde:

b_{horz}: Largura da aba horizontal. b_{horz} : *300.00* mm

t_{horz}: Espessura da aba horizontal. t_{horz} : *28.00* mm

b_{vert}: Largura da aba vertical. b_{vert} : *300.00* mm

t_{vert}: Espessura da aba vertical. t_{vert} : *28.00* mm

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

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Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

h : ***0.002*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações PP+GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. T_{Sd} : *0.05* kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

T_{Rd} : *28.13* kN·m

Onde:

W_T: Módulo de resistência à torção. W_T : *149.48* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

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Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Deve satisfazer:

h : ***0.865*** ✓

h : ***0.001*** ✓

(Já que a norma não proporciona uma verificação da tensão total para seções submetidas a torção combinada com outros esforços, considera-se que este elemento também deve cumprir os seguintes critérios para a tensão de Von Mises:)

h : ***0.786*** ✓

O coeficiente de aproveitamento desfavorável produz-se no nó N3, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL] no ponto da seção transversal de coordenadas U = -111.02 mm, V = 192.33 mm em relação aos eixos principais de inércia.

As tensões normais s_{Sd} são dadas por:

s_{Sd} : *271.25* MPa

Onde:

s_{NSd} : *2.34* MPa

Sendo:

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. — **$N_{t,Sd}$** : *37.18* kN

A_g: Área bruta da seção transversal da barra. — **A_g** : *159.10* cm²

$s_{Mu,Sd}$: *161.77* MPa

Sendo:

$M_{u,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — **$M_{u,Sd}^{-}$** : *180.20* kN·m

I_u: Momento de inércia da seção transversal em relação ao eixo U. — **I_u** : *21425.00* cm4

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V: Coordenada, em relação ao eixo V, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. **V** : *192.33* mm

$\sigma_{Mv,Sd}$: *107.15* MPa

Sendo:

$M_{v,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{v,Sd}^{+}$: *52.84* kN·m

I_v: Momento de inércia da seção transversal em relação ao eixo V. I_v : *5475.00* cm4

U: Coordenada, em relação ao eixo U, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. **U** : *-111.02* mm

As tensões tangenciais t_{Sd} são dadas por:

t_{Sd} : *0.24* MPa

Onde:

$t_{Vu,Sd}$: *0.00* MPa

Sendo:

$V_{u,Sd}^{-}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{u,Sd}^{-}$: *20.66* kN

S_v: Momento estático, em relação ao eixo V, da parte da seção situada a um lado do ponto de verificação. S_v : *0.00* cm³

I_v: Momento de inércia da seção transversal em relação ao eixo V. I_v : *5475.00* cm4

t: Espessura. **t** : *28.00* mm

$t_{Vv,Sd}$: *0.00* MPa

Sendo:

$V_{v,Sd}^{+}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{v,Sd}^{+}$: *66.02* kN

S_u: Momento estático, em relação ao eixo U, da parte da seção situada a um lado do ponto de verificação. S_u : *0.00* cm³

I_u: Momento de inércia da seção transversal em relação ao eixo U. I_u : *21425.00* cm4

t: Espessura. **t** : *28.00* mm

t_{TSd} : *0.24* MPa

Sendo:

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. T_{Sd} : *0.04* kN·m

J: Constante de torção da seção transversal. **J** : *418.55* cm4

t: Espessura. **t** : *28.00* mm

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As tensões totais f_{Sd} são dadas por:

$\mathbf{f_{Sd}}$: *271.25* MPa

A tensão resistente de cálculo, s_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): $\mathbf{s_{Rd}}$: *313.64* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão normal:

$\mathbf{s_{Rd}}$: *313.64* MPa

Onde:

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão normal:

$\mathbf{s_{Rd}}$: *313.64* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3). **c** : *1.000*

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

A tensão resistente de cálculo, t_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): $\mathbf{t_{Rd}}$: *180.50* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão de cisalhamento:

$\mathbf{t_{Rd}}$: *188.18* MPa

Onde:

$\mathbf{f_y}$: Resistência ao escoamento do aço. $\mathbf{f_y}$: *345.00* MPa

$\mathbf{g_{a1}}$: Coeficiente de segurança do material. $\mathbf{g_{a1}}$: *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão cisalhamento:

$\mathbf{t_{Rd}}$: *180.50* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3).

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c : *0.959*

Sendo:

$\mathbf{l_0}$: *0.316*

$\mathbf{t_e}$: *2079.09* MPa

$\mathbf{s_E}$: *1732.57* MPa

Onde:

$\mathbf{k_v}$: Coeficiente de flambagem (ABNT NBR 8800:2008, Artigo 5.4.3).	$\mathbf{k_v}$: *1.20*	
E: Módulo de elasticidade do aço.	**E** : *200000*	MPa
n: Coeficiente de Poisson.	**n** : *0.30*	
t: Espessura.	**t** : *28.00*	mm
h: Largura.	**h** : *286.00*	mm
$\mathbf{f_y}$: Resistência ao escoamento do aço.	$\mathbf{f_y}$: *345.00*	MPa
$\mathbf{g_{a1}}$: Coeficiente de segurança do material.	$\mathbf{g_{a1}}$: *1.10*	

A tensão resistente de cálculo, f_{Rd} é dada por:

$\mathbf{f_{Rd}}$: *345.00* MPa

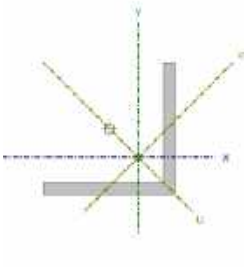
Onde:

$\mathbf{f_y}$: Resistência ao escoamento do aço.	$\mathbf{f_y}$: *345.00*	MPa
$\mathbf{g_{a1}}$: Coeficiente de segurança do material.	$\mathbf{g_{a1}}$: *1.10*	

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Barra N11/N82

Perfil: L 300 x 300 x 28
Material: Aço (A-572 345MPa)



Nós		Comprimento (m)	Características mecânicas							
Inicial	Final		Área (cm²)	I_x[(1)] (cm4)	I_y[(1)] (cm4)	I_{xy}[(4)] (cm4)	I_t[(2)] (cm4)	x_g[(3)] (mm)	y_g[(3)] (mm)	a[(5)] (graus)
N11	N82	5.621	159.10	13450.00	13450.00	7975.00	418.55	65.30	-65.30	-45.0

Notas:
(1) Inércia em relação ao eixo indicado
(2) Momento de inércia à torção uniforme
(3) Coordenadas do centro de gravidade
(4) Produto de inércia
(5) É o ângulo que forma o eixo principal de inércia U em relação ao eixo X, positivo no sentido anti-horário.

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	0.00	0.00	0.00	0.00
L_K	0.000	0.000	0.000	0.000
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

A verificação não procede, já que os comprimentos de flambagem por flexão são nulos.

Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

Deve satisfazer:

h : ***0.001*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N82, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+Laje+Pavimentação+Recapeamento+1.4·Vento0 [NL].

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. **$N_{t,Sd}$** : *6.74* kN

A força axial de tração resistente de cálculo, $N_{t,Rd}$, deve ser determinada pela expressão:

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$N_{t,Rd}$: *4989.95* kN

Onde:

A_g: Área bruta da seção transversal da barra. — A_g : *159.10* cm²

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

γ_{a1}: Coeficiente de segurança do material. — γ_{a1} : *1.10*

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

Deve satisfazer:

h : ***0.004*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N11, para a combinação de ações PP+GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. — $N_{c,Sd}$: *20.84* kN

A força axial de compressão resistente de cálculo, $N_{c,Rd}$, deve ser determinada pela expressão:

$N_{c,Rd}$: *4989.95* kN

Onde:

c: Fator de redução total associado à resistência à compressão. — **c** : *1.000*

Q: Fator de redução total associado à flambagem local. — **Q** : *1.000*

A_g: Área bruta da seção transversal da barra. — A_g : *159.10* cm²

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

γ_{a1}: Coeficiente de segurança do material. — γ_{a1} : *1.10*

Fator de redução c: (ABNT NBR 8800:2008, Artigo 5.3.3)

Não se aplica nenhuma redução, já que os comprimentos efetivos de flambagem são nulos.

Flambagem local de barras axialmente comprimidas: (ABNT NBR 8800:2008, Anexo F)

Não se aplica nenhuma redução, já que todos os elementos componentes da seção transversal possuem relações entre largura e espessura (b/t) que não superam os valores limite dados na Tabela F.1.

Mesa: Elemento do Grupo 3 da Tabela F.1.

10.71 £ **10.83**

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Sendo:

(b/t): Relação entre largura e espessura. **(b/t)** : *10.71*

Onde:

b: Largura. **b** : *300.00* mm

t: Espessura. **t** : *28.00* mm

$(b/t)_{lim}$: Relação limite entre largura e espessura.

$(b/t)_{lim}$: *10.83*

Onde:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

Resistência à flexão eixo U (ABNT NBR 8800:2008, Artigo 5.4.2)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : ***0.386*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N82, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C2 [NL].

M_{Sd}: Momento fletor solicitante de cálculo, desfavorável.

$M_{u,Sd}^{+}$: *183.29* kN·m

Onde:

$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{x,Sd}^{+}$: *161.59* kN·m

$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. $M_{y,Sd}^{+}$: *97.62* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: M_{Rd} : *475.15* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *475.15* kN·m

Onde:

W_u: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_u : *1009.98* cm³

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f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

Não é necessário, pois o comprimento de flambagem lateral é nulo.

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que a seção considera-se compacta.

Já que se cumpre '$l \leq l_p$', não é necessário realizar esta verificação. **10.71** ≤ **13.00**

Onde:

l : *10.71*

Sendo:

b: Largura da aba da cantoneira. **b** : *300.00* mm
t: Espessura da cantoneira. **t** : *28.00* mm

l_p : *13.00*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa
f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

Resistência à flexão eixo V (ABNT NBR 8800:2008, Artigo 5.4.2)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : ***0.225*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N11, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

M_{Sd}: Momento fletor solicitante de cálculo, desfavorável.

$M_{v,Sd}^{+}$: *52.27* kN·m

Onde:

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$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável. **$M_{x,Sd}^{-}$** : *165.07* kN·m

$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável. **$M_{y,Sd}^{-}$** : *91.15* kN·m

O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções: **M_{Rd}** : *232.02* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *232.02* kN·m

Onde:

W_v: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. **W_v** : *493.17* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que o eixo de flexão não é o de maior inércia.

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

Não é necessária, já que a seção considera-se compacta.

Já que se cumpre 'l £ l_p', não é necessário realizar esta verificação. **10.71** £ **13.00**

Onde:

l : *10.71*

Sendo:

b: Largura da aba da cantoneira. **b** : *300.00* mm

t: Espessura da cantoneira. **t** : *28.00* mm

l_p : *13.00*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

Resistência ao esforço cortante U (ABNT NBR 8800:2008, Artigo 5.4.3)

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Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : *0.009* ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N11, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável.

$V_{u,Sd}^{+}$: *20.40* kN

Onde:

$V_{x,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{x,Sd}^{-}$: *32.75* kN

$V_{y,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{y,Sd}^{-}$: *61.60* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

V_{Rd} : *2235.49* kN

Onde:

V_{pl} : *2459.03* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *118.79* cm²

Onde:

b_{horz}: Largura da aba horizontal. b_{horz} : *300.00* mm

t_{horz}: Espessura da aba horizontal. t_{horz} : *28.00* mm

b_{vert}: Largura da aba vertical. b_{vert} : *300.00* mm

t_{vert}: Espessura da aba vertical. t_{vert} : *28.00* mm

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

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Resistência ao esforço cortante V (ABNT NBR 8800:2008, Artigo 5.4.3)

Este caso não está contemplado na norma. Aplica-se o critério da CYPE Ingenieros baseado na norma ANSI/AISC 360-05 (LRFD).

Deve satisfazer:

h : *0.030* ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N11, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável.

$V_{v,Sd}^{-}$: *66.72* kN

Onde:

$V_{x,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{x,Sd}^{-}$: *32.75* kN

$V_{y,Sd}$: Esforço cortante solicitante de cálculo, desfavorável. $V_{y,Sd}^{-}$: *61.60* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

V_{Rd} : *2235.49* kN

Onde:

V_{pl} : *2459.03* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *118.79* cm²

Onde:

b_{horz}: Largura da aba horizontal. b_{horz} : *300.00* mm

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t_{horz}: Espessura da aba horizontal.	t_{horz} :	*28.00*	mm
b_{vert}: Largura da aba vertical.	b_{vert} :	*300.00*	mm
t_{vert}: Espessura da aba vertical.	t_{vert} :	*28.00*	mm
f_y: Resistência ao escoamento do aço.	f_y :	*345.00*	MPa
g_{a1}: Coeficiente de segurança do material.	g_{a1} :	*1.10*	

Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

h : ***0.002*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações PP+GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável.	T_{Sd} :	*0.05*	kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

T_{Rd} : *28.13* kN·m

Onde:

W_T: Módulo de resistência à torção.	W_T :	*149.48*	cm³
f_y: Resistência ao escoamento do aço.	f_y :	*345.00*	MPa
g_{a1}: Coeficiente de segurança do material.	g_{a1} :	*1.10*	

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Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Deve satisfazer:

h : *0.857* ✓

h : *0.001* ✓

(Já que a norma não proporciona uma verificação da tensão total para seções submetidas a torção combinada com outros esforços, considera-se que este elemento também deve cumprir os seguintes critérios para a tensão de Von Mises:)

h : *0.779* ✓

O coeficiente de aproveitamento desfavorável produz-se no nó N11, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento0 [NL] no ponto da seção transversal de coordenadas U = -111.02 mm, V = 192.33 mm em relação aos eixos principais de inércia.

As tensões normais s_{Sd} são dadas por:

$\mathbf{s_{Sd}}$: *268.89* MPa

Onde:

$\mathbf{s_{NSd}}$: *0.27* MPa

Sendo:

$N_{t,Sd}$: Força axial de tração solicitante de cálculo, desfavorável. $\mathbf{N_{t,Sd}}$: *4.28* kN

A_g: Área bruta da seção transversal da barra. $\mathbf{A_g}$: *159.10* cm²

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$\sigma_{Mu,Sd}$: *162.64* MPa

Sendo:

$M_{u,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — $M_{u,Sd}^{-}$: *181.17* kN·m

I_u: Momento de inércia da seção transversal em relação ao eixo U. — I_u : *21425.00* cm4

V: Coordenada, em relação ao eixo V, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **V** : *192.33* mm

$\sigma_{Mv,Sd}$: *105.98* MPa

Sendo:

$M_{v,Sd}$: Momento fletor solicitante de cálculo, desfavorável. — $M_{v,Sd}^{+}$: *52.27* kN·m

I_v: Momento de inércia da seção transversal em relação ao eixo V. — I_v : *5475.00* cm4

U: Coordenada, em relação ao eixo U, do ponto desfavorável da seção transversal em relação ao centro de gravidade da seção bruta. — **U** : *-111.02* mm

As tensões tangenciais t_{Sd} são dadas por:

t_{Sd} : *-0.24* MPa

Onde:

$t_{Vu,Sd}$: *0.00* MPa

Sendo:

$V_{u,Sd}^{+}$: Esforço cortante solicitante de cálculo, desfavorável. — $V_{u,Sd}^{+}$: *20.40* kN

S_v: Momento estático, em relação ao eixo V, da parte da seção situada a um lado do ponto de verificação. — S_v : *0.00* cm³

I_v: Momento de inércia da seção transversal em relação ao eixo V. — I_v : *5475.00* cm4

t: Espessura. — **t** : *28.00* mm

$t_{Vv,Sd}$: *0.00* MPa

Sendo:

$V_{v,Sd}^{-}$: Esforço cortante solicitante de cálculo, desfavorável. — $V_{v,Sd}^{-}$: *66.72* kN

S_u: Momento estático, em relação ao eixo U, da parte da seção situada a um lado do ponto de verificação. — S_u : *0.00* cm³

I_u: Momento de inércia da seção transversal em relação ao eixo U. — I_u : *21425.00* cm4

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t: Espessura. **t** : *28.00* mm

t_{TSd} : *-0.24* MPa

Sendo:

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. **T_{Sd}** : *0.04* kN·m
J: Constante de torção da seção transversal. **J** : *418.55* cm4
t: Espessura. **t** : *28.00* mm

As tensões totais f_{Sd} são dadas por:

f_{Sd} : *268.89* MPa

A tensão resistente de cálculo, s_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): **s_{Rd}** : *313.64* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão normal:

s_{Rd} : *313.64* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3). **c** : *1.000*
f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa
g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

A tensão resistente de cálculo, t_{Rd}, é dada pelo menor valor entre os obtidos por a) e b): **t_{Rd}** : *180.50* MPa

(a) Tensão resistente de cálculo para os estados-limites de escoamento sob efeito de tensão de cisalhamento:

t_{Rd} : *188.18* MPa

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Onde:

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

(b) Tensão resistente de cálculo para os estados-limites de instabilidade ou flambagem sob efeito de tensão cisalhamento:

t_{Rd} : *180.50* MPa

Onde:

c: Fator de redução total associado à resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3.3).

c : *0.959*

Sendo:

l_0 : *0.316*

t_e : *2079.09* MPa

s_E : *1732.57* MPa

Onde:

k_v: Coeficiente de flambagem (ABNT NBR 8800:2008, Artigo 5.4.3). **k_v** : *1.20*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

n: Coeficiente de Poisson. **n** : *0.30*

t: Espessura. **t** : *28.00* mm

h: Largura. **h** : *286.00* mm

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

A tensão resistente de cálculo, f_{Rd} é dada por:

f_{Rd} : *345.00* MPa

Onde:

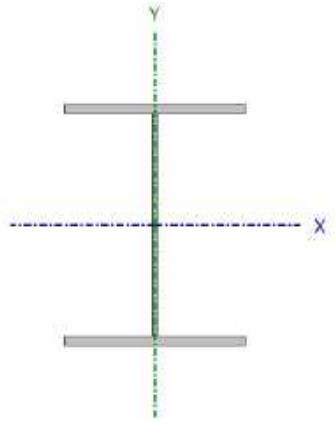
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f_y: Resistência ao escoamento do aço.	**f_y** : *345.00* MPa
g_{a1}: Coeficiente de segurança do material.	**g_{a1}** : *1.10*

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Barra N191/N173

Perfil: CVS 400x103
Material: Aço (A-588 345MPa)



Nós		Comprimento (m)	Características mecânicas			
Inicial	Final		Área (cm²)	I_x(1) (cm4)	I_y(1) (cm4)	I_t(2) (cm4)
N191	N173	6.138	130.96	39355.27	7202.63	92.44

Notas:
(1) Inércia em relação ao eixo indicado
(2) Momento de inércia à torção uniforme

	Flambagem		Flambagem lateral	
	Plano ZX	Plano ZY	Aba sup.	Aba inf.
b	1.00	1.00	1.00	1.00
L_K	6.138	6.138	6.138	6.138
C_b	-		1.000	

Notação:
b: Coeficiente de flambagem
L_K: Comprimento de flambagem (m)
C_b: Fator de modificação para o momento crítico

Limitação do índice de esbeltez (ABNT NBR 8800:2008, Artigo 5.3.4)

O índice de esbeltez das barras comprimidas, tomado como o maior relação entre o comprimento de flambagem e o raio de giração, não deve ser superior a 200.

l : ***82.8*** ✓

Onde:

l: Índice de esbeltez.

λ_x : *35.4*

λ_y : *82.8*

Sendo:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *6.138* m

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *6.138* m

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *17.34* cm

r_y : *7.42* cm

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Resistência à tração (ABNT NBR 8800:2008, Artigo 5.2)

A verificação não será executada, já que não existe esforço axial de tração.

Resistência à compressão (ABNT NBR 8800:2008, Artigo 5.3)

Deve satisfazer:

h : ***0.466*** ✓

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$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável. **$N_{c,Sd}$** : *1151.25* kN

A força axial de compressão resistente de cálculo, $N_{c,Rd}$, deve ser determinada pela expressão:

$N_{c,Rd}$: *2468.61* kN

Onde:

c: Fator de redução total associado à resistência à compressão. **c** : *0.611*

Q: Fator de redução total associado à flambagem local. **Q** : *0.984*

A_g: Área bruta da seção transversal da barra. **A_g** : *130.96* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

Fator de redução c: (ABNT NBR 8800:2008, Artigo 5.3.3)

c : *0.611*

Onde:

l_0: Índice de esbeltez reduzido.

l_0 : *1.086*

Sendo:

Q: Fator de redução total associado à flambagem local. **Q** : *0.984*

A_g: Área bruta da seção transversal da barra. **A_g** : *130.96* cm²

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

N_e: Força axial de flambagem elástica. **N_e** : *3773.26* kN

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Força axial de flambagem elástica: (ABNT NBR 8800:2008, Anexo E)

A força axial de flambagem elástica, N_e, de uma barra com seção transversal duplamente simétrica ou simétrica em relação a um ponto, é dada pelo menor valor entre os obtidos por (a), (b) e (c):

N_e : *3773.26* kN

(a) Para flambagem por flexão em relação ao eixo principal de inércia X da seção transversal:

N_{ex} : *20617.16* kN

Onde:

$K_x \cdot L_x$: Comprimento de flambagem por flexão em relação ao eixo X. — $K_x \cdot L_x$: *6.138* m

I_x: Momento de inércia da seção transversal em relação ao eixo X. — I_x : *39355.27* cm4

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

(b) Para flambagem por flexão em relação ao eixo principal de inércia Y da seção transversal:

N_{ey} : *3773.26* kN

Onde:

$K_y \cdot L_y$: Comprimento de flambagem por flexão em relação ao eixo Y. — $K_y \cdot L_y$: *6.138* m

I_y: Momento de inércia da seção transversal em relação ao eixo Y. — I_y : *7202.63* cm4

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

(c) Para flambagem por torção em relação ao eixo longitudinal Z:

N_{ez} : *5914.68* kN

Onde:

$K_z \cdot L_z$: Comprimento de flambagem por torção. — $K_z \cdot L_z$: *6.138* m

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

C_w: Constante de empenamento da seção transversal. — C_w : *2655177.26* cm6

G: Módulo de elasticidade transversal do aço. — **G** : *77000* MPa

J: Constante de torção da seção transversal. — **J** : *92.44* cm4

r_0: Raio de giração polar da seção bruta em relação ao centro de cisalhamento.

r_0 : *18.86* cm

Onde:

r_x,r_y: Raios de giração em relação aos eixos principales X, Y, respectivamente. — r_x : *17.34* cm

r_y : *7.42* cm

X_0,Y_0: Coordenadas do centro de cisalhamento na direção dos eixos principales X, Y, respectivamente. — X_0 : *0.00* mm

Y_0 : *0.00* mm

Flambagem local de barras axialmente comprimidas: (ABNT NBR 8800:2008, Anexo F)

As barras submetidas a força axial de compressão, nas quais os elementos componentes da seção transversal possuem relações entre largura e espessura (b/t) maiores que os valores limite dados na Tabela F.1, têm o fator de redução total Q dado por:

Q : *0.984*

Onde:

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Q_s: Fator de redução que tem em conta a flambagem local dos elementos AL. Quando existem dois ou mais elementos AL com fatores de redução Q_s diferentes, adota-se o menor destes fatores. **Q_s** : *1.000*

Mesa: Elemento do Grupo 5 da Tabela F.1.

9.38 £ **12.35**

Q_s : *1.000*

Sendo:

(b/t): Relação entre largura e espessura. **(b/t)** : *9.38*

Onde:

b: Largura. **b** : *150.00* mm

t: Espessura. **t** : *16.00* mm

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

k_c : *0.64*

h: Altura da alma. **h** : *368.00* mm

t_w: Espessura da alma. **t_w** : *9.50* mm

Q_a: Fator de redução que leva em conta a flambagem local dos elementos AA.

Q_a : *0.984*

Sendo:

A_g: Área bruta da seção transversal da barra. **A_g** : *130.96* cm²

A_{ef}: Área efetiva da seção transversal da barra. **A_{ef}** : *128.90* cm²

Alma: Elemento do Grupo 2 da Tabela F.1.

38.74 > **35.87**

b_{ef} : *346.36* mm

Sendo:

(b/t): Relação entre largura e espessura. **(b/t)** : *38.74*

Onde:

b: Largura. **b** : *368.00* mm

t: Espessura. **t** : *9.50* mm

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

C_a: Coeficiente para elementos que não sejam mesas ou almas de seções tubulares retangulares. **C_a** : *0.34*

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Resistência à flexão eixo X (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : *0.438* ✓

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M_{Sd}^+: Momento fletor solicitante de cálculo, desfavorável. **M_{Sd}^+** : *243.83* kN·m

Já que 'l £ l_r', deve-se considerar viga de alma não-esbelta (ABNT NBR 8800:2008, Anexo G). **38.74** £ **137.24**

Onde:

l : *38.74*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *368.00* mm

t_w: Espessura da alma. **t_w** : *9.50* mm

l_r : *137.24*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

O momento fletor resistente de cálculo M_{Rd} de vigas de alma não-esbelta deve ser tomado como o menor valor entre os obtidos nas seguintes seções: **M_{Rd}** : *556.43* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *925.74* kN·m

Onde:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. **W_x** : *1967.76* cm³

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

(b) Estado-límite último de flambagem lateral com torção, FLT (ABNT NBR 8800:2008, Anexo G):

82.77 > **42.38**

82.77 £ **123.79**

M_{Rd} : *556.43* kN·m

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Onde:

l : *82.77*

Sendo:

$L_{b,sup}$: Distância entre pontos travados à flambagem lateral. $L_{b,sup}$: *6.138* m

r_y: Raio de giração da seção em relação ao eixo principal de inércia perpendicular ao eixo de flexão. r_y : *7.42* cm

l_p : *42.38*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

l_r : *123.79*

Sendo:

I_y: Momento de inércia da seção transversal em relação ao eixo Y. I_y : *7202.63* cm4

J: Constante de torção da seção transversal. J : *92.44* cm4

C_w: Constante de empenamento da seção transversal. C_w : *2655177.26* cm6

b_1 : *0.026* cm-1

M_{pl} : *746.87* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *2164.83* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_r : *475.21* kN·m

Sendo:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_x : *1967.76* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

s_r : *103.50* MPa

C_b: Fator de modificação para diagrama de momento fletor não-uniforme. C_b : *1.00*

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

(c) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

9.38 > **9.15**

9.38 £ **21.92**

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M_{Rd} : *674.60* kN·m

Onde:

l : *9.38*

Sendo:

b_f: Largura da mesa comprimida. b_f : *300.00* mm

t_f: Espessura da mesa comprimida. t_f : *16.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. E : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

l_r : *21.92*

Sendo:

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

s_r : *103.50* MPa

k_c : *0.64*

Onde:

h: Altura da seção. h : *368.00* mm

t_w: Espessura da alma. t_w : *9.50* mm

M_{pl} : *746.87* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *2164.83* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_r : *475.21* kN·m

Sendo:

W_x: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_x : *1967.76* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

s_r : *103.50* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

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(d) Estado-limite último de flambagem local da alma, FLA (ABNT NBR 8800:2008, Anexo G):

38.74 £ **90.53**

M_{Rd} : *678.97* kN·m

Onde:

l : *38.74*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *368.00* mm

t_w: Espessura da alma. t_w : *9.50* mm

l_p : *90.53*

Sendo:

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_{pl} : *746.87* kN

Onde:

Z_x: Módulo de resistência plástico. Z_x : *2164.83* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

γ_{a1}: Coeficiente de segurança do material. γ_{a1} : *1.10*

Resistência à flexão eixo Y (ABNT NBR 8800:2008, Artigo 5.4.2)

Deve satisfazer:

h : ***0.025*** ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N191, para a combinação de ações 1.5·PP+1.5·GuardaCorpo+Laje+Pavimentação+Recapeamento+1.4·Vento0 [NL].

M_{Sd}^+: Momento fletor solicitante de cálculo, desfavorável. M_{Sd}^+ : *5.73* kN·m

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O momento fletor resistente de cálculo M_{Rd} deve ser tomado como o menor valor entre os obtidos nas seguintes seções:

M_{Rd} : *225.90* kN·m

(a) Máximo momento fletor resistente de cálculo (ABNT NBR 8800:2008, Artigo 5.4.2.2):

M_{Rd} : *225.90* kN·m

Onde:

W_y: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. — **W_y** : *480.18* cm³

f_y: Resistência ao escoamento do aço. — **f_y** : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — **g_{a1}** : *1.10*

(b) Estado-límite último de flambagem local da mesa comprimida, FLM (ABNT NBR 8800:2008, Anexo G):

9.38 > **9.15**

9.38 £ **21.92**

M_{Rd} : *226.25* kN·m

Onde:

l : *9.38*

Sendo:

b_f: Largura da mesa comprimida. — **b_f** : *300.00* mm

t_f: Espessura da mesa comprimida. — **t_f** : *16.00* mm

l_p : *9.15*

Sendo:

E: Módulo de elasticidade do aço. — **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. — **f_y** : *345.00* MPa

l_r : *21.92*

Sendo:

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f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

s_r : *103.50* MPa

k_c : *0.64*

Onde:

h: Altura da seção. **h** : *368.00* mm

t_w: Espessura da alma. t_w : *9.50* mm

M_{pl} : *251.26* kN

Onde:

Z_y: Módulo de resistência plástico. Z_y : *728.30* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

M_r : *115.96* kN·m

Sendo:

W_y: Módulo de resistência elástico mínimo da seção transversal em relação ao eixo de flexão. W_y : *480.18* cm³

f_y: Resistência ao escoamento do aço. f_y : *345.00* MPa

s_r : *103.50* MPa

g_{a1}: Coeficiente de segurança do material. g_{a1} : *1.10*

Resistência ao esforço cortante X (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : ***0.003*** ✓

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O esforço solicitante de cálculo desfavorável produz-se no nó N191, para a combinação de ações PP+GuardaCorpo+Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{Sd}** : *4.55* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

9.38 £ **29.01**

V_{Rd} : *1806.55* kN

Onde:

l : *9.38*

Sendo:

b_f: Largura das mesas. **b_f** : *300.00* mm

t_f: Espessura das mesas. **t_f** : *16.00* mm

l_p : *29.01*

Sendo:

k_v: Coeficiente de flambagem. **k_v** : *1.20*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

V_{pl} : *1987.20* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *96.00* cm²

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

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Resistência ao esforço cortante Y (ABNT NBR 8800:2008, Artigo 5.4.3)

Deve satisfazer:

h : *0.110* ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N173, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

V_{Sd}: Esforço cortante solicitante de cálculo, desfavorável. **V_{Sd}** : *78.96* kN

A força cortante resistente de cálculo, V_{Rd}, é determinada pela expressão:

38.74 £ **59.22**

V_{Rd} : *715.09* kN

Onde:

l : *38.74*

Sendo:

h: Altura da alma, tomada igual à distancia entre as faces internas das mesas. **h** : *368.00* mm

t_w: Espessura da alma. **t_w** : *9.50* mm

l_p : *59.22*

Sendo:

k_v: Coeficiente de flambagem. **k_v** : *5.00*

E: Módulo de elasticidade do aço. **E** : *200000* MPa

f_y: Resistência ao escoamento do aço. **f_y** : *345.00* MPa

V_{pl} : *786.60* kN

Sendo:

A_w: Área efetiva ao cisalhamento.

A_w : *38.00* cm²

d: Altura total da seção transversal. **d** : *400.00* mm

g_{a1}: Coeficiente de segurança do material. **g_{a1}** : *1.10*

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Resistência ao esforço axial e flexão combinados (ABNT NBR 8800:2008, Artigo 5.5.1.2)

Deve satisfazer:

h : *0.857* ✓

O esforço solicitante de cálculo desfavorável produz-se no nó N191, para a combinação de ações 1.3·PP+1.3·GuardaCorpo+1.3·Laje+1.3·Pavimentação+1.3·Recapeamento+Multidão(Passeio)+Multidão-TB450+TB-450-C1 [NL].

$N_{c,Sd}$: Força axial de compressão solicitante de cálculo, desfavorável.	**$N_{c,Sd}$** : *1151.25* kN
$M_{x,Sd}$: Momento fletor solicitante de cálculo, desfavorável.	**$M_{x,Sd}^{+}$** : *243.83* kN·m
$M_{y,Sd}$: Momento fletor solicitante de cálculo, desfavorável.	**$M_{y,Sd}^{-}$** : *0.29* kN·m

0.466 ³ **0.200**

h : *0.857*

Onde:

$N_{c,Rd}$: Força axial resistente de cálculo de compressão (ABNT NBR 8800:2008, Artigo 5.3).	**$N_{c,Rd}$** : *2468.61* kN
$M_{x,Rd}$,$M_{y,Rd}$: Momentos fletores resistentes de cálculo, respectivamente em relação aos eixos X e Y da seção transversal (ABNT NBR 8800:2008, Artigo 5.4.2).	**$M_{x,Rd}$** : *556.43* kN·m **$M_{y,Rd}$** : *225.90* kN·m

Resistência à torção (ABNT NBR 8800:2008, Artigo 5.5.2.1)

Já que a norma não proporciona uma verificação geral para seções não tubulares submetidas exclusivamente à torção, considera-se que este elemento também deve cumprir o seguinte critério:

Deve satisfazer:

h : ***0.001*** ✓

O esforço solicitante de cálculo desfavorável produz-se para a combinação de ações 1.5·PP+1.5·GuardaCorpo+1.5·Laje+1.5·Pavimentação+1.5·Recapeamento+1.4·Vento180 [NL].

T_{Sd}: Momento de torção solicitante de cálculo, desfavorável. **T_{Sd}** : *0.01* kN·m

O momento de torção resistente de cálculo, T_{Rd}, é determinado pela expressão:

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T_{Rd} : *10.87* kN·m

Onde:

W_T: Módulo de resistência à torção. — W_T : *57.77* cm³

f_y: Resistência ao escoamento do aço. — f_y : *345.00* MPa

g_{a1}: Coeficiente de segurança do material. — g_{a1} : *1.10*

Resistência ao momento de torção, força axial, momento fletor e cortante (ABNT NBR 8800:2008, Artigo 5.5.2.2)

Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.

Resistência a interações de esforços e momento de torção (ABNT NBR 8800:2008, Artigo 5.5.2.3)

Não há interação entre os dois esforços cortantes nem entre o momento torsor, esforço axial, momentos fletores e esforços cortantes. Portanto, a verificação não é necessária.

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2.2.1.4. Verificações E.L.U. (Resumido)

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N1/N40	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 28.1	x: 0 m h = 19.6	x: 0 m h = 2.9	x: 0 m h = 0.2	x: 6.271 m h = 5.4	x: 0 m h = 46.6	h = 9.6	N.A.(2)	x: 0 m h = 57.3	**PASSA h = 57.3**
N188/N170	N.A.(3)	x: 5.987 m h = 15.7	N.A.(4)	x: 0 m h = 25.3	x: 5.987 m h = 0.6	x: 5.987 m h = 0.1	x: 0 m h = 7.9	x: 0 m h = 33.1	h = 0.7	N.A.(2)	N.A.(5)	**PASSA h = 33.1**
N189/N171	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 48.8	x: 0 m h = 21.1	x: 3.069 m h = 2.6	x: 6.138 m h = 0.2	x: 6.138 m h = 2.8	x: 0 m h = 67.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 67.6**
N190/N172	N.A.(3)	x: 5.987 m h = 33.7	N.A.(4)	x: 5.987 m h = 49.1	x: 0 m h = 2.3	x: 0 m h = 0.2	x: 0 m h = 12.9	x: 5.987 m h = 77.4	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 77.4**
N191/N173	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 46.6	x: 0 m h = 43.8	x: 0 m h = 2.5	x: 0 m h = 0.3	x: 6.138 m h = 11.0	x: 0 m h = 85.7	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 85.7**
N192/N174	N.A.(3)	x: 5.987 m h = 26.9	N.A.(4)	x: 5.987 m h = 39.7	x: 0 m h = 1.7	x: 0 m h = 0.2	x: 0 m h = 10.3	x: 5.987 m h = 62.3	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 62.3**
N193/N176	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 30.2	x: 0 m h = 31.0	x: 0 m h = 3.2	x: 0 m h = 0.3	x: 6.138 m h = 7.6	x: 0 m h = 58.8	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 58.8**
N194/N175	N.A.(3)	x: 5.987 m h = 18.0	N.A.(4)	x: 5.987 m h = 22.3	x: 0 m h = 31.8	x: 0 m h = 0.9	x: 0 m h = 5.7	x: 0 m h = 56.0	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 56.0**
N195/N178	l £ 200.0 Passa	x: 6.164 m h = 0.7	x: 0 m h = 4.9	x: 0 m h = 13.4	x: 0 m h = 30.9	x: 0 m h = 0.9	x: 6.164 m h = 3.2	x: 0 m h = 42.4	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 42.4**
N196/N177	N.A.(3)	x: 6.219 m h = 7.4	N.A.(4)	x: 6.219 m h = 5.8	x: 3.11 m h = 2.0	x: 0 m h = 0.2	x: 0 m h = 1.3	x: 6.219 m h = 10.0	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 10.0**
N197/N179	N.A.(3)	x: 6.19 m h = 7.5	N.A.(4)	x: 6.19 m h = 5.9	x: 6.19 m h = 11.6	x: 0 m h = 0.5	x: 0 m h = 1.4	x: 6.19 m h = 17.9	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 17.9**
N198/N180	l £ 200.0 Passa	x: 6.194 m h = 0.6	x: 0 m h = 5.2	x: 0 m h = 13.5	x: 0 m h = 26.1	x: 0 m h = 1.0	x: 6.194 m h = 3.2	x: 0 m h = 39.4	h = 0.3	N.A.(2)	N.A.(5)	**PASSA h = 39.4**
N199/N181	N.A.(3)	x: 5.958 m h = 17.8	N.A.(4)	x: 5.958 m h = 22.4	x: 0 m h = 24.4	x: 0 m h = 0.7	x: 0 m h = 5.8	x: 0 m h = 50.1	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 50.1**
N200/N182	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 30.4	x: 0 m h = 30.4	x: 0 m h = 2.7	x: 0 m h = 0.3	x: 6.168 m h = 7.4	x: 0 m h = 58.1	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 58.1**
N201/N183	N.A.(3)	x: 5.958 m h = 26.5	N.A.(4)	x: 5.958 m h = 39.3	x: 3.351 m h = 1.8	x: 0 m h = 0.2	x: 0 m h = 10.3	x: 5.958 m h = 61.5	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 61.5**
N202/N184	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 45.6	x: 0 m h = 42.4	x: 0 m h = 2.5	x: 0 m h = 0.3	x: 6.168 m h = 10.6	x: 0 m h = 83.5	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 83.5**
N203/N185	N.A.(3)	x: 5.958 m h = 32.6	N.A.(4)	x: 0 m h = 46.3	x: 0 m h = 2.3	x: 0 m h = 0.3	x: 0 m h = 12.3	x: 0 m h = 73.8	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 73.8**
N204/N186	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 47.2	x: 6.168 m h = 39.9	x: 3.084 m h = 2.5	x: 6.168 m h = 0.2	x: 6.168 m h = 9.9	x: 6.168 m h = 82.4	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 82.4**
N205/N187	N.A.(3)	x: 5.958 m h = 15.1	N.A.(4)	x: 0 m h = 24.0	x: 2.234 m h = 0.6	x: 5.958 m h = 0.1	x: 0 m h = 7.5	x: 0 m h = 31.4	h = 0.7	N.A.(2)	N.A.(5)	**PASSA h = 31.4**
N6/N57	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 28.5	x: 0 m h = 20.2	x: 0 m h = 2.8	x: 0 m h = 0.1	x: 6.317 m h = 5.4	x: 0 m h = 47.9	h = 9.6	N.A.(2)	x: 0 m h = 55.4	**PASSA h = 55.4**
N216/N231	l £ 200.0 Passa	x: 6.194 m h = 0.8	x: 0 m h = 4.8	x: 0 m h = 13.1	x: 0 m h = 33.4	x: 0 m h = 1.2	x: 6.194 m h = 3.1	x: 0 m h = 44.4	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 44.4**
N217/N230	N.A.(3)	x: 5.958 m h = 17.8	N.A.(4)	x: 5.958 m h = 22.2	x: 0 m h = 32.0	x: 0 m h = 0.9	x: 0 m h = 5.7	x: 0 m h = 56.1	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 56.1**
N218/N229	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 30.3	x: 0 m h = 30.4	x: 0 m h = 3.1	x: 0 m h = 0.3	x: 6.168 m h = 7.4	x: 0 m h = 58.3	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 58.3**
N219/N228	N.A.(3)	x: 5.958 m h = 26.6	N.A.(4)	x: 5.958 m h = 39.5	x: 3.351 m h = 1.8	x: 0 m h = 0.2	x: 0 m h = 10.3	x: 5.958 m h = 61.7	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 61.7**
N220/N227	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 45.8	x: 0 m h = 42.6	x: 0 m h = 2.4	x: 0 m h = 0.2	x: 6.168 m h = 10.7	x: 0 m h = 83.6	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 83.6**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N221/N226	N.A.(3)	x: 5.958 m h = 32.7	N.A.(4)	x: 0 m h = 46.4	x: 0 m h = 2.3	x: 0 m h = 0.2	x: 0 m h = 12.3	x: 0 m h = 73.8	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 73.8**
N222/N225	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 47.4	x: 6.168 m h = 40.1	x: 3.084 m h = 2.4	x: 6.168 m h = 0.2	x: 6.168 m h = 9.9	x: 6.168 m h = 82.7	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 82.7**
N223/N224	N.A.(3)	x: 5.958 m h = 15.0	N.A.(4)	x: 0 m h = 24.0	x: 2.607 m h = 0.7	x: 5.958 m h = 0.1	x: 0 m h = 7.6	x: 0 m h = 31.5	h = 0.7	N.A.(2)	N.A.(5)	**PASSA h = 31.5**
N13/N56	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 28.3	x: 0 m h = 20.0	x: 0 m h = 2.8	x: 0 m h = 0.1	x: 6.317 m h = 5.3	x: 0 m h = 47.4	h = 9.6	N.A.(2)	x: 0 m h = 57.3	**PASSA h = 57.3**
N7/N41	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 27.8	x: 0 m h = 19.5	x: 0 m h = 3.0	x: 0 m h = 0.1	x: 6.271 m h = 5.3	x: 0 m h = 46.1	h = 9.5	N.A.(2)	x: 0 m h = 54.8	**PASSA h = 54.8**
N206/N241	N.A.(3)	x: 5.987 m h = 15.0	N.A.(4)	x: 0 m h = 23.8	x: 2.245 m h = 0.5	x: 5.987 m h = 0.1	x: 0 m h = 7.5	x: 0 m h = 31.2	h = 0.7	N.A.(2)	N.A.(5)	**PASSA h = 31.2**
N207/N240	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 46.7	x: 6.138 m h = 40.3	x: 3.069 m h = 2.5	x: 6.138 m h = 0.2	x: 6.138 m h = 10.0	x: 6.138 m h = 82.2	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 82.2**
N208/N239	N.A.(3)	x: 5.987 m h = 32.7	N.A.(4)	x: 0 m h = 46.0	x: 0 m h = 2.4	x: 0 m h = 0.3	x: 0 m h = 12.1	x: 0 m h = 73.7	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 73.7**
N209/N238	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 45.0	x: 0 m h = 42.8	x: 0 m h = 2.7	x: 0 m h = 0.3	x: 6.138 m h = 10.8	x: 0 m h = 83.3	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 83.3**
N210/N237	N.A.(3)	x: 5.987 m h = 26.7	N.A.(4)	x: 5.987 m h = 39.2	x: 0 m h = 1.8	x: 0 m h = 0.2	x: 0 m h = 10.2	x: 5.987 m h = 61.5	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 61.5**
N211/N236	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 30.0	x: 0 m h = 30.7	x: 0 m h = 2.9	x: 0 m h = 0.3	x: 6.138 m h = 7.6	x: 0 m h = 58.1	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 58.1**
N212/N235	N.A.(3)	x: 5.987 m h = 17.9	N.A.(4)	x: 5.987 m h = 22.4	x: 0 m h = 25.9	x: 0 m h = 0.8	x: 0 m h = 5.8	x: 0 m h = 51.4	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 51.4**
N213/N234	l £ 200.0 Passa	x: 6.164 m h = 0.6	x: 0 m h = 5.1	x: 0 m h = 13.6	x: 0 m h = 24.7	x: 0 m h = 0.7	x: 6.164 m h = 3.2	x: 0 m h = 37.9	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 37.9**
N214/N233	N.A.(3)	x: 6.219 m h = 7.6	N.A.(4)	x: 6.219 m h = 6.0	x: 3.11 m h = 2.2	x: 0 m h = 0.2	x: 0 m h = 1.4	x: 6.219 m h = 10.2	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 10.2**
N215/N232	N.A.(3)	x: 6.19 m h = 7.3	N.A.(4)	x: 6.19 m h = 5.6	x: 6.19 m h = 11.7	x: 0 m h = 0.5	x: 0 m h = 1.3	x: 6.19 m h = 16.9	h = 0.1	N.A.(2)	N.A.(5)	**PASSA h = 16.9**
N1/N158	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 1.5 m h = 17.6	x: 1.5 m h = 0.1	h < 0.1	x: 0 m h = 14.5	x: 1.5 m h = 17.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 17.7**
N158/N159	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0.4 m h = 21.7	x: 0.4 m h = 0.1	h < 0.1	x: 0 m h = 11.7	x: 0.4 m h = 21.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 21.8**
N159/N160	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 3 m h = 36.5	x: 3 m h = 0.3	h < 0.1	x: 0 m h = 10.8	x: 3 m h = 36.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 36.8**
N160/N77	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0 m h = 36.5	x: 0.825 m h = 0.4	h < 0.1	x: 0 m h = 3.0	x: 0.206 m h = 36.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 36.8**
N77/N163	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0.825 m h = 36.5	x: 0 m h = 0.4	h < 0.1	x: 0.825 m h = 3.0	x: 0.619 m h = 36.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 36.8**
N163/N162	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0 m h = 36.5	x: 0 m h = 0.3	h < 0.1	x: 3 m h = 10.8	x: 0 m h = 36.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 36.8**
N162/N161	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0 m h = 21.7	x: 0 m h = 0.1	h < 0.1	x: 0.4 m h = 11.7	x: 0 m h = 21.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 21.8**
N161/N7	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0 m h = 17.6	x: 0 m h = 0.1	h < 0.1	x: 1.5 m h = 14.5	x: 0 m h = 17.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 17.7**
N24/N152	l £ 200.0 Passa	h = 1.4	h = 1.1	x: 1.5 m h = 34.3	x: 1.5 m h = 0.6	h = 0.1	x: 0 m h = 28.1	x: 1.5 m h = 34.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 34.6**
N152/N153	l £ 200.0 Passa	h = 1.4	h = 1.1	x: 0.4 m h = 42.2	x: 0.4 m h = 0.8	h = 0.1	x: 0 m h = 22.8	x: 0.4 m h = 42.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 42.6**
N153/N154	l £ 200.0 Passa	h = 1.4	h = 1.2	x: 3 m h = 70.9	x: 3 m h = 2.1	h = 0.1	x: 0 m h = 21.1	x: 3 m h = 71.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 71.8**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N154/N78	l £ 200.0 Passa	h = 1.4	h = 1.1	x: 0 m h = 70.9	x: 0.825 m h = 2.4	h = 0.1	x: 0 m h = 6.0	x: 0.206 m h = 71.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 71.8**
N78/N157	l £ 200.0 Passa	h = 1.3	h = 1.2	x: 0.825 m h = 71.0	x: 0 m h = 2.4	h = 0.1	x: 0.825 m h = 6.0	x: 0.619 m h = 71.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 71.9**
N157/N156	l £ 200.0 Passa	h = 1.3	h = 1.3	x: 0 m h = 71.0	x: 0 m h = 2.1	h = 0.1	x: 3 m h = 21.1	x: 0 m h = 71.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 71.9**
N156/N155	l £ 200.0 Passa	h = 1.3	h = 1.2	x: 0 m h = 42.2	x: 0 m h = 0.8	h = 0.1	x: 0.4 m h = 22.8	x: 0 m h = 42.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 42.6**
N155/N36	l £ 200.0 Passa	h = 1.3	h = 1.2	x: 0 m h = 34.3	x: 0 m h = 0.6	h = 0.1	x: 1.5 m h = 28.1	x: 0 m h = 34.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 34.6**
N2/N146	l £ 200.0 Passa	h = 0.6	h = 0.5	x: 1.5 m h = 29.7	x: 1.5 m h = 0.7	h = 0.1	x: 0 m h = 24.7	x: 1.5 m h = 30.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 30.4**
N146/N147	l £ 200.0 Passa	h = 0.6	h = 0.5	x: 0.4 m h = 36.4	x: 0.4 m h = 0.9	h = 0.1	x: 0 m h = 19.4	x: 0.4 m h = 37.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 37.3**
N147/N148	l £ 200.0 Passa	h = 0.6	h = 0.6	x: 3 m h = 62.6	x: 3 m h = 2.4	h = 0.1	x: 0 m h = 17.7	x: 3 m h = 64.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 64.7**
N148/N79	l £ 200.0 Passa	h = 0.6	h = 0.5	x: 0.413 m h = 62.9	x: 0.825 m h = 2.8	h = 0.1	x: 0 m h = 4.6	x: 0.619 m h = 65.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 65.3**
N79/N151	l £ 200.0 Passa	h = 0.6	h = 0.6	x: 0.413 m h = 62.9	x: 0 m h = 2.9	h = 0.1	x: 0.825 m h = 4.6	x: 0.206 m h = 65.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 65.4**
N151/N150	l £ 200.0 Passa	h = 0.6	h = 0.7	x: 0 m h = 62.6	x: 0 m h = 2.5	h = 0.1	x: 3 m h = 17.7	x: 0 m h = 64.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 64.9**
N150/N149	l £ 200.0 Passa	h = 0.6	h = 0.6	x: 0 m h = 36.4	x: 0 m h = 1.0	h = 0.1	x: 0.4 m h = 19.4	x: 0 m h = 37.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 37.4**
N149/N8	l £ 200.0 Passa	h = 0.6	h = 0.6	x: 0 m h = 29.8	x: 0 m h = 0.8	h = 0.1	x: 1.5 m h = 24.7	x: 0 m h = 30.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 30.5**
N25/N140	N.A.(3)	h = 0.5	N.A.(4)	x: 1.5 m h = 34.3	x: 1.5 m h = 0.5	h = 0.1	x: 0 m h = 28.1	x: 1.5 m h = 34.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 34.9**
N140/N141	N.A.(3)	h = 0.5	N.A.(4)	x: 0.4 m h = 42.2	x: 0.4 m h = 0.7	h = 0.1	x: 0 m h = 22.8	x: 0.4 m h = 42.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 42.9**
N141/N142	N.A.(3)	h = 0.5	N.A.(4)	x: 3 m h = 70.9	x: 3 m h = 1.7	h = 0.1	x: 0 m h = 21.1	x: 3 m h = 72.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 72.5**
N142/N80	N.A.(3)	h = 0.5	N.A.(4)	x: 0 m h = 70.9	x: 0.825 m h = 2.0	h = 0.1	x: 0 m h = 6.0	x: 0.206 m h = 72.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 72.5**
N80/N145	l £ 200.0 Passa	h = 0.9	h = 0.7	x: 0.825 m h = 71.0	x: 0 m h = 2.1	h = 0.1	x: 0.825 m h = 6.0	x: 0.619 m h = 72.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 72.5**
N145/N144	l £ 200.0 Passa	h = 0.9	h = 0.7	x: 0 m h = 71.0	x: 0 m h = 1.8	h = 0.1	x: 3 m h = 21.1	x: 0 m h = 72.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 72.5**
N144/N143	l £ 200.0 Passa	h = 0.9	h = 0.7	x: 0 m h = 42.2	x: 0 m h = 0.7	h = 0.1	x: 0.4 m h = 22.8	x: 0 m h = 42.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 42.8**
N143/N37	l £ 200.0 Passa	h = 0.9	h = 0.7	x: 0 m h = 34.3	x: 0 m h = 0.5	h = 0.1	x: 1.5 m h = 28.1	x: 0 m h = 34.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 34.8**
N3/N134	l £ 200.0 Passa	N.A.(1)	h = 0.8	x: 1.5 m h = 29.6	x: 1.5 m h < 0.1	h < 0.1	x: 0 m h = 24.6	x: 1.5 m h = 30.0	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 30.0**
N134/N135	l £ 200.0 Passa	N.A.(1)	h = 0.7	x: 0.4 m h = 36.2	x: 0.4 m h = 0.1	h < 0.1	x: 0 m h = 19.3	x: 0.4 m h = 36.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 36.6**
N135/N136	l £ 200.0 Passa	N.A.(1)	h = 0.8	x: 3 m h = 62.0	x: 3 m h = 0.2	h < 0.1	x: 0 m h = 17.6	x: 3 m h = 62.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 62.5**
N136/N81	l £ 200.0 Passa	N.A.(1)	h = 0.7	x: 0.413 m h = 62.3	x: 0.825 m h = 0.2	h < 0.1	x: 0 m h = 4.4	x: 0.413 m h = 62.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 62.8**
N81/N139	l £ 200.0 Passa	N.A.(1)	h = 0.7	x: 0.413 m h = 62.3	x: 0 m h = 0.2	h < 0.1	x: 0.825 m h = 4.4	x: 0.413 m h = 62.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 62.8**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N139/N138	l £ 200.0 Passa	N.A.(1)	h = 0.8	x: 0 m h = 62.0	x: 0 m h = 0.2	h < 0.1	x: 3 m h = 17.6	x: 0 m h = 62.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 62.5**
N138/N137	l £ 200.0 Passa	N.A.(1)	h = 0.7	x: 0 m h = 36.2	x: 0 m h = 0.1	h < 0.1	x: 0.4 m h = 19.3	x: 0 m h = 36.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 36.6**
N137/N9	l £ 200.0 Passa	N.A.(1)	h = 0.7	x: 0 m h = 29.5	x: 0 m h < 0.1	h < 0.1	x: 1.5 m h = 24.6	x: 0 m h = 30.0	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 30.0**
N164/N128	l £ 200.0 Passa	h = 1.1	h = 0.7	x: 1.5 m h = 29.9	x: 1.5 m h = 0.3	h < 0.1	x: 0 m h = 24.8	x: 1.5 m h = 30.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 30.2**
N128/N129	l £ 200.0 Passa	h = 1.1	h = 0.7	x: 0.4 m h = 36.6	x: 0.4 m h = 0.3	h < 0.1	x: 0 m h = 19.5	x: 0.4 m h = 36.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 36.9**
N129/N130	l £ 200.0 Passa	h = 1.1	h = 0.8	x: 2.571 m h = 57.1	x: 3 m h = 0.8	h < 0.1	x: 0 m h = 17.8	x: 2.571 m h = 57.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 57.7**
N130/N82	l £ 200.0 Passa	h = 1.1	h = 0.7	x: 0 m h = 56.5	x: 0.825 m h = 1.0	h < 0.1	x: 0.825 m h = 6.2	x: 0 m h = 57.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 57.2**
N82/N133	N.A.(3)	h = 0.9	N.A.(4)	x: 0.825 m h = 56.4	x: 0 m h = 0.7	h < 0.1	x: 0 m h = 6.1	x: 0.825 m h = 57.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 57.3**
N133/N132	N.A.(3)	h = 0.9	N.A.(4)	x: 0.429 m h = 57.0	x: 0 m h = 0.6	h < 0.1	x: 3 m h = 17.8	x: 0.429 m h = 57.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 57.9**
N132/N131	N.A.(3)	h = 0.9	N.A.(4)	x: 0 m h = 36.5	x: 0 m h = 0.2	h < 0.1	x: 0.4 m h = 19.5	x: 0 m h = 37.1	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 37.1**
N131/N10	N.A.(3)	h = 0.9	N.A.(4)	x: 0 m h = 29.8	x: 0 m h = 0.2	h < 0.1	x: 1.5 m h = 24.7	x: 0 m h = 30.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 30.4**
N4/N122	l £ 200.0 Passa	h < 0.1	h = 0.5	x: 1.5 m h = 29.7	x: 1.5 m h = 0.4	h < 0.1	x: 0 m h = 24.7	x: 1.5 m h = 30.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 30.3**
N122/N123	l £ 200.0 Passa	h < 0.1	h = 0.5	x: 0.4 m h = 36.3	x: 0.4 m h = 0.5	h < 0.1	x: 0 m h = 19.4	x: 0.4 m h = 37.0	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 37.0**
N123/N124	l £ 200.0 Passa	h < 0.1	h = 0.5	x: 3 m h = 62.3	x: 3 m h = 1.3	h < 0.1	x: 0 m h = 17.7	x: 3 m h = 63.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 63.8**
N124/N83	l £ 200.0 Passa	h < 0.1	h = 0.5	x: 0.413 m h = 62.6	x: 0.825 m h = 1.5	h < 0.1	x: 0 m h = 4.5	x: 0.413 m h = 64.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 64.2**
N83/N127	l £ 200.0 Passa	h < 0.1	h = 0.5	x: 0.413 m h = 62.5	x: 0 m h = 1.5	h < 0.1	x: 0.825 m h = 4.5	x: 0.413 m h = 64.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 64.2**
N127/N126	l £ 200.0 Passa	h < 0.1	h = 0.5	x: 0 m h = 62.2	x: 0 m h = 1.3	h < 0.1	x: 3 m h = 17.6	x: 0 m h = 63.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 63.8**
N126/N125	l £ 200.0 Passa	h < 0.1	h = 0.5	x: 0 m h = 36.3	x: 0 m h = 0.5	h < 0.1	x: 0.4 m h = 19.4	x: 0 m h = 37.0	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 37.0**
N125/N11	l £ 200.0 Passa	h < 0.1	h = 0.5	x: 0 m h = 29.7	x: 0 m h = 0.4	h < 0.1	x: 1.5 m h = 24.6	x: 0 m h = 30.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 30.3**
N28/N116	l £ 200.0 Passa	h = 0.6	h = 0.2	x: 1.5 m h = 34.4	x: 1.5 m h = 0.4	h < 0.1	x: 0 m h = 28.2	x: 1.5 m h = 34.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 34.7**
N116/N117	l £ 200.0 Passa	h = 0.6	h = 0.2	x: 0.4 m h = 42.4	x: 0.4 m h = 0.5	h < 0.1	x: 0 m h = 22.9	x: 0.4 m h = 42.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 42.7**
N117/N118	l £ 200.0 Passa	h = 0.6	h = 0.3	x: 3 m h = 71.2	x: 3 m h = 1.2	h < 0.1	x: 0 m h = 21.2	x: 3 m h = 71.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 71.9**
N118/N84	l £ 200.0 Passa	h = 0.6	h = 0.2	x: 0 m h = 71.2	x: 0.825 m h = 1.4	h < 0.1	x: 0 m h = 6.0	x: 0.206 m h = 71.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 71.9**
N84/N121	l £ 200.0 Passa	h = 0.8	h = 0.4	x: 0.825 m h = 71.2	x: 0 m h = 1.4	h < 0.1	x: 0.825 m h = 6.0	x: 0.619 m h = 71.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 71.9**
N121/N120	l £ 200.0 Passa	h = 0.8	h = 0.4	x: 0 m h = 71.2	x: 0 m h = 1.2	h < 0.1	x: 3 m h = 21.2	x: 0 m h = 71.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 71.9**
N120/N119	l £ 200.0 Passa	h = 0.8	h = 0.4	x: 0 m h = 42.4	x: 0 m h = 0.5	h < 0.1	x: 0.4 m h = 22.9	x: 0 m h = 42.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 42.7**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N119/N38	l £ 200.0 Passa	h = 0.8	h = 0.4	x: 0 m h = 34.4	x: 0 m h = 0.4	h < 0.1	x: 1.5 m h = 28.2	x: 0 m h = 34.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 34.7**
N5/N110	l £ 200.0 Passa	h = 0.7	h = 0.7	x: 1.5 m h = 31.8	x: 1.5 m h = 0.6	h = 0.1	x: 0 m h = 26.2	x: 1.5 m h = 32.0	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 32.0**
N110/N111	l £ 200.0 Passa	h = 0.7	h = 0.6	x: 0.4 m h = 39.0	x: 0.4 m h = 0.8	h = 0.1	x: 0 m h = 20.9	x: 0.4 m h = 39.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 39.3**
N111/N112	l £ 200.0 Passa	h = 0.7	h = 0.7	x: 3 m h = 69.1	x: 3 m h = 2.0	h = 0.1	x: 0 m h = 19.2	x: 3 m h = 69.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 69.9**
N112/N85	l £ 200.0 Passa	h = 0.7	h = 0.6	x: 0.825 m h = 70.3	x: 0.825 m h = 2.3	h = 0.1	x: 0 m h = 4.6	x: 0.825 m h = 71.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 71.2**
N85/N115	l £ 200.0 Passa	h = 0.5	h = 0.4	x: 0 m h = 70.3	x: 0 m h = 2.3	h = 0.1	x: 0.825 m h = 4.6	x: 0 m h = 71.1	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 71.1**
N115/N114	l £ 200.0 Passa	h = 0.5	h = 0.4	x: 0 m h = 69.1	x: 0 m h = 1.9	h = 0.1	x: 3 m h = 19.2	x: 0 m h = 69.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 69.8**
N114/N113	l £ 200.0 Passa	h = 0.5	h = 0.4	x: 0 m h = 39.0	x: 0 m h = 0.8	h = 0.1	x: 0.4 m h = 20.9	x: 0 m h = 39.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 39.3**
N113/N12	l £ 200.0 Passa	h = 0.5	h = 0.4	x: 0 m h = 31.8	x: 0 m h = 0.6	h = 0.1	x: 1.5 m h = 26.2	x: 0 m h = 32.0	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 32.0**
N29/N104	l £ 200.0 Passa	h = 1.2	h = 1.1	x: 1.5 m h = 37.3	x: 1.5 m h = 0.5	h = 0.1	x: 0 m h = 30.3	x: 1.5 m h = 37.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 37.4**
N104/N105	l £ 200.0 Passa	h = 1.2	h = 1.1	x: 0.4 m h = 45.9	x: 0.4 m h = 0.6	h = 0.1	x: 0 m h = 25.0	x: 0.4 m h = 46.1	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 46.1**
N105/N106	l £ 200.0 Passa	h = 1.2	h = 1.2	x: 3 m h = 80.4	x: 3 m h = 1.6	h = 0.1	x: 0 m h = 23.3	x: 3 m h = 80.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 80.8**
N106/N86	l £ 200.0 Passa	h = 1.2	h = 1.1	x: 0.619 m h = 81.1	x: 0.825 m h = 1.8	h = 0.1	x: 0 m h = 5.2	x: 0.619 m h = 81.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 81.6**
N86/N109	l £ 200.0 Passa	h = 1.3	h = 1.0	x: 0 m h = 81.0	x: 0 m h = 1.8	h = 0.1	x: 0.825 m h = 6.0	x: 0 m h = 81.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 81.4**
N109/N108	l £ 200.0 Passa	h = 1.3	h = 1.1	x: 0 m h = 79.2	x: 0 m h = 1.5	h = 0.1	x: 3 m h = 22.2	x: 0 m h = 79.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 79.6**
N108/N107	l £ 200.0 Passa	h = 1.3	h = 1.0	x: 0 m h = 44.1	x: 0 m h = 0.6	h = 0.1	x: 0.4 m h = 23.9	x: 0 m h = 44.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 44.3**
N107/N39	l £ 200.0 Passa	h = 1.3	h = 1.1	x: 0 m h = 35.8	x: 0 m h = 0.5	h = 0.1	x: 1.5 m h = 29.2	x: 0 m h = 35.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 35.9**
N6/N98	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 1.5 m h = 18.6	x: 1.5 m h = 0.1	h < 0.1	x: 0 m h = 15.2	x: 1.5 m h = 18.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 18.7**
N98/N99	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0.4 m h = 22.9	x: 0.4 m h = 0.1	h < 0.1	x: 0 m h = 12.4	x: 0.4 m h = 23.0	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 23.0**
N99/N100	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 3 m h = 39.5	x: 3 m h = 0.3	h < 0.1	x: 0 m h = 11.5	x: 3 m h = 39.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 39.8**
N100/N87	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0.413 m h = 39.7	x: 0.825 m h = 0.3	h < 0.1	x: 0 m h = 2.3	x: 0.413 m h = 39.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 39.9**
N87/N103	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0 m h = 39.5	x: 0 m h = 0.3	h < 0.1	x: 0.825 m h = 3.0	x: 0 m h = 39.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 39.8**
N103/N102	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0 m h = 38.3	x: 0 m h = 0.3	h < 0.1	x: 3 m h = 10.4	x: 0 m h = 38.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 38.6**
N102/N101	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0 m h = 21.0	x: 0 m h = 0.1	h < 0.1	x: 0.4 m h = 11.3	x: 0 m h = 21.1	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 21.1**
N101/N13	l £ 200.0 Passa	h < 0.1	h < 0.1	x: 0 m h = 17.1	x: 0 m h = 0.1	h < 0.1	x: 1.5 m h = 14.1	x: 0 m h = 17.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 17.2**
N77/N78	N.A.(3)	x: 2.748 m h = 0.1	N.A.(4)	x: 1.374 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.374 m h = 0.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 0.7**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N78/N79	l £ 200.0 Passa	x: 2.748 m h = 0.7	x: 0 m h = 4.3	x: 1.374 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.374 m h = 2.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 4.3**
N79/N80	l £ 200.0 Passa	x: 2.748 m h = 0.3	x: 0 m h = 7.7	x: 1.374 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.374 m h = 4.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 7.7**
N80/N81	l £ 200.0 Passa	x: 2.748 m h = 0.3	x: 0 m h = 10.8	x: 1.374 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.374 m h = 5.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 10.8**
N84/N83	l £ 200.0 Passa	x: 2.757 m h = 1.1	x: 0 m h = 8.8	x: 1.379 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.379 m h = 4.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 8.8**
N85/N84	l £ 200.0 Passa	x: 2.757 m h = 0.7	x: 0 m h = 6.3	x: 1.379 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.379 m h = 3.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.3**
N86/N85	l £ 200.0 Passa	x: 2.757 m h = 0.9	x: 0 m h = 3.6	x: 1.379 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.379 m h = 2.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 3.6**
N87/N86	N.A.(3)	x: 2.757 m h = 0.1	N.A.(4)	x: 1.379 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.379 m h = 0.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 0.7**
N40/N88	N.A.(3)	h = 1.0	N.A.(4)	x: 5.725 m h = 4.9	x: 5.725 m h = 2.1	h < 0.1	x: 0 m h = 1.5	x: 5.725 m h = 7.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 7.3**
N88/N41	N.A.(3)	h = 0.9	N.A.(4)	x: 0 m h = 4.9	x: 0 m h = 2.5	h = 0.1	x: 5.725 m h = 1.5	x: 0 m h = 7.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 7.6**
N43/N89	N.A.(3)	h = 1.1	N.A.(4)	x: 5.725 m h = 5.8	x: 5.725 m h = 0.6	h < 0.1	x: 0 m h = 1.6	x: 5.725 m h = 6.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.8**
N89/N42	N.A.(3)	h = 0.7	N.A.(4)	x: 0 m h = 5.6	x: 0 m h = 0.3	h < 0.1	x: 5.725 m h = 1.6	x: 0 m h = 6.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.2**
N44/N90	N.A.(3)	h = 0.7	N.A.(4)	x: 5.725 m h = 5.8	x: 5.725 m h = 0.3	h < 0.1	x: 0 m h = 1.6	x: 5.725 m h = 6.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.4**
N90/N45	N.A.(3)	h = 0.5	N.A.(4)	x: 0 m h = 5.7	x: 0 m h = 0.4	h < 0.1	x: 5.725 m h = 1.6	x: 0 m h = 6.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.2**
N46/N91	N.A.(3)	h = 1.0	N.A.(4)	x: 5.725 m h = 5.8	x: 5.725 m h = 0.1	h < 0.1	x: 0 m h = 1.6	x: 5.725 m h = 6.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.4**
N91/N47	N.A.(3)	h = 0.8	N.A.(4)	x: 0 m h = 5.7	x: 0 m h = 0.5	h < 0.1	x: 5.725 m h = 1.6	x: 0 m h = 6.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.5**
N49/N92	N.A.(3)	h = 0.7	N.A.(4)	x: 5.009 m h = 3.4	x: 5.725 m h = 0.1	h < 0.1	x: 0 m h = 1.2	x: 5.367 m h = 3.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 3.7**
N92/N48	N.A.(3)	h = 0.7	N.A.(4)	x: 0.358 m h = 3.5	x: 0 m h = 0.1	h < 0.1	x: 5.725 m h = 1.3	x: 0.358 m h = 3.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 3.9**
N51/N93	l £ 200.0 Passa	h = 0.1	h = 0.2	x: 0 m h = 9.1	x: 0 m h = 1.2	h < 0.1	x: 0 m h = 2.7	x: 0 m h = 9.8	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 9.8**
N93/N50	N.A.(3)	h = 0.4	N.A.(4)	x: 5.725 m h = 9.4	x: 5.725 m h = 1.6	h < 0.1	x: 5.725 m h = 2.7	x: 5.725 m h = 10.1	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 10.1**
N53/N94	N.A.(3)	h = 1.0	N.A.(4)	x: 5.725 m h = 5.6	x: 5.725 m h = 0.4	h < 0.1	x: 0 m h = 1.6	x: 5.725 m h = 6.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.5**
N94/N52	N.A.(3)	h = 1.6	N.A.(4)	x: 0 m h = 5.6	x: 0 m h = 0.4	h < 0.1	x: 5.725 m h = 1.6	x: 0 m h = 6.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.6**
N55/N95	N.A.(3)	h = 1.4	N.A.(4)	x: 5.725 m h = 6.0	x: 5.725 m h = 0.5	h < 0.1	x: 0 m h = 1.7	x: 5.725 m h = 7.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 7.2**
N95/N54	N.A.(3)	h = 1.4	N.A.(4)	x: 0 m h = 6.0	x: 0 m h = 0.5	h < 0.1	x: 5.725 m h = 1.7	x: 0 m h = 7.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 7.2**
N57/N96	N.A.(3)	h = 0.6	N.A.(4)	x: 5.725 m h = 4.9	x: 5.725 m h = 3.4	h = 0.1	x: 0 m h = 1.5	x: 5.725 m h = 8.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 8.3**
N96/N56	l £ 200.0 Passa	h = 0.6	h = 0.2	x: 0 m h = 4.9	x: 0 m h = 3.3	h = 0.1	x: 5.725 m h = 1.5	x: 0 m h = 8.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 8.2**
N88/N89	N.A.(3)	x: 2.748 m h = 2.0	N.A.(4)	x: 1.374 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.374 m h = 1.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 2.0**

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	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N89/N90	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 6.3	x: 1.374 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.374 m h = 3.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.3**
N90/N91	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 12.5	x: 1.374 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.374 m h = 6.8	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 12.5**
N91/N92	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 15.6	x: 1.374 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.374 m h = 8.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 15.6**
N94/N93	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 11.6	x: 1.379 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.379 m h = 6.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 11.6**
N95/N94	N.A.(3)	x: 2.757 m h = 2.3	N.A.(4)	x: 2.757 m h = 3.5	x: 2.757 m h = 0.4	h < 0.1	x: 0 m h = 0.5	x: 2.757 m h = 4.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 4.7**
N58/N97	N.A.(3)	h = 0.7	N.A.(4)	x: 5.725 m h = 5.8	x: 5.725 m h = 0.5	h < 0.1	x: 0 m h = 1.6	x: 5.725 m h = 6.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.6**
N97/N33	N.A.(3)	h = 0.8	N.A.(4)	x: 0 m h = 5.8	x: 0 m h = 0.5	h < 0.1	x: 5.725 m h = 1.6	x: 0 m h = 6.7	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.7**
N93/N92	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 17.8	x: 2.737 m h = 2.0	x: 2.737 m h = 0.1	h < 0.1	x: 2.737 m h = 0.4	x: 2.737 m h = 10.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 17.8**
N4/N198	N.A.(3)	x: 0.25 m h = 16.0	N.A.(4)	x: 0.25 m h = 13.1	x: 0 m h = 8.6	x: 0 m h = 0.9	x: 0 m h = 3.2	x: 0 m h = 26.9	h = 66.0	N.A.(2)	x: 0 m h = 72.0	**PASSA h = 72.0**
N198/N166	N.A.(3)	x: 1.119 m h = 16.2	N.A.(4)	x: 0 m h = 10.7	x: 0 m h = 7.0	h = 0.7	x: 1.119 m h = 2.5	x: 0 m h = 22.9	h = 5.4	N.A.(2)	x: 0 m h = 34.3	**PASSA h = 34.3**
N166/N197	N.A.(3)	x: 1.119 m h = 16.2	N.A.(4)	x: 0 m h = 9.4	x: 1.119 m h = 2.9	h = 0.7	x: 1.119 m h = 2.7	x: 0 m h = 17.9	h = 5.4	N.A.(2)	x: 0 m h = 26.1	**PASSA h = 26.1**
N197/N164	N.A.(3)	x: 0.25 m h = 16.5	N.A.(4)	x: 0.25 m h = 8.7	x: 0.25 m h = 3.8	h = 0.7	x: 0 m h = 9.6	x: 0.25 m h = 17.6	h = 4.2	N.A.(2)	N.A.(5)	**PASSA h = 17.6**
N164/N196	N.A.(3)	x: 0.25 m h = 16.5	N.A.(4)	x: 0 m h = 8.7	x: 0 m h = 3.8	h = 0.6	x: 0.25 m h = 9.5	x: 0 m h = 17.5	h = 4.2	N.A.(2)	N.A.(5)	**PASSA h = 17.5**
N196/N165	N.A.(3)	x: 1.119 m h = 16.2	N.A.(4)	x: 1.119 m h = 9.3	x: 0 m h = 2.8	h = 0.6	x: 0 m h = 2.7	x: 1.119 m h = 18.2	h = 7.2	N.A.(2)	x: 0 m h = 25.5	**PASSA h = 25.5**
N165/N195	N.A.(3)	x: 1.119 m h = 16.2	N.A.(4)	x: 1.119 m h = 10.6	x: 1.119 m h = 5.9	h = 0.6	x: 0 m h = 2.5	x: 1.119 m h = 20.6	h = 7.2	N.A.(2)	x: 1.119 m h = 31.2	**PASSA h = 31.2**
N195/N3	N.A.(3)	x: 0.25 m h = 16.0	N.A.(4)	x: 0 m h = 13.0	x: 0.25 m h = 7.2	x: 0.25 m h = 0.8	x: 0.25 m h = 3.1	x: 0.25 m h = 24.2	h = 77.5	N.A.(2)	x: 0.25 m h = 80.1	**PASSA h = 80.1**
N11/N216	N.A.(3)	x: 0.25 m h = 15.7	N.A.(4)	x: 0.25 m h = 12.9	x: 0 m h = 6.1	h = 0.6	x: 0.25 m h = 3.1	x: 0 m h = 26.5	h = 83.9	N.A.(2)	x: 0 m h = 84.7	**PASSA h = 84.7**
N216/N71	N.A.(3)	x: 1.119 m h = 15.9	N.A.(4)	x: 0 m h = 10.6	x: 0 m h = 5.8	h = 0.6	x: 1.119 m h = 2.5	x: 0 m h = 24.4	h = 7.3	N.A.(2)	x: 0 m h = 31.7	**PASSA h = 31.7**
N71/N215	N.A.(3)	x: 1.119 m h = 15.9	N.A.(4)	x: 0 m h = 9.3	x: 0 m h = 2.3	h = 0.6	x: 1.119 m h = 2.7	x: 0 m h = 19.3	h = 7.3	N.A.(2)	x: 0 m h = 26.7	**PASSA h = 26.7**
N215/N10	N.A.(3)	x: 0.25 m h = 16.2	N.A.(4)	x: 0.25 m h = 8.7	x: 0.25 m h = 2.6	h = 0.6	x: 0 m h = 9.4	x: 0.25 m h = 19.4	h = 3.2	N.A.(2)	N.A.(5)	**PASSA h = 19.4**
N10/N214	N.A.(3)	x: 0.25 m h = 16.4	N.A.(4)	x: 0 m h = 8.6	x: 0 m h = 2.6	h = 0.5	x: 0.25 m h = 9.7	x: 0 m h = 19.4	h = 3.2	N.A.(2)	N.A.(5)	**PASSA h = 19.4**
N214/N72	N.A.(3)	x: 1.119 m h = 16.0	N.A.(4)	x: 1.119 m h = 9.4	x: 0 m h = 1.9	h = 0.5	x: 0 m h = 2.7	x: 1.119 m h = 18.9	h = 5.8	N.A.(2)	x: 1.119 m h = 25.0	**PASSA h = 25.0**
N72/N213	N.A.(3)	x: 1.119 m h = 16.0	N.A.(4)	x: 1.119 m h = 10.7	x: 1.119 m h = 4.9	h = 0.5	x: 0 m h = 2.5	x: 1.119 m h = 23.6	h = 5.8	N.A.(2)	x: 1.119 m h = 28.8	**PASSA h = 28.8**
N213/N9	N.A.(3)	x: 0.25 m h = 15.8	N.A.(4)	x: 0 m h = 13.1	x: 0.25 m h = 5.4	h = 0.5	x: 0.25 m h = 3.3	x: 0.25 m h = 25.9	h = 62.2	N.A.(2)	x: 0 m h = 64.8	**PASSA h = 64.8**
N82/N167	l £ 200.0 Passa	x: 1.369 m h = 0.2	x: 0 m h = 6.3	x: 1.369 m h = 0.5	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.369 m h = 3.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.3**
N167/N81	l £ 200.0 Passa	x: 1.369 m h = 0.2	x: 0 m h = 6.3	x: 0 m h = 0.5	N.A.(8)	N.A.(9)	x: 1.369 m h = 0.2	x: 0 m h = 3.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 6.3**

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	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N83/N168	l £ 200.0 Passa	x: 1.369 m h = 1.3	x: 0 m h = 4.7	x: 1.141 m h = 0.6	x: 0 m h = 0.2	h < 0.1	x: 0 m h = 0.2	x: 1.141 m h = 2.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 4.7**
N168/N82	l £ 200.0 Passa	x: 1.369 m h = 1.3	x: 0 m h = 4.7	x: 0 m h = 0.6	x: 0 m h = 0.1	h < 0.1	x: 1.369 m h = 0.2	x: 0 m h = 2.9	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 4.7**
N13/N67	N.A.(3)	x: 1.379 m h = 4.4	N.A.(4)	x: 1.379 m h = 3.7	x: 1.379 m h = 6.5	h = 0.8	x: 1.379 m h = 3.9	x: 1.379 m h = 11.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 11.2**
N67/N223	N.A.(3)	x: 1.129 m h = 4.4	N.A.(4)	x: 1.129 m h = 7.0	x: 1.129 m h = 11.9	h = 0.8	x: 1.129 m h = 4.1	x: 1.129 m h = 19.2	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 19.2**
N223/N39	N.A.(3)	x: 0.25 m h = 5.9	N.A.(4)	x: 0 m h = 24.8	x: 0.25 m h = 13.0	h = 0.8	x: 0 m h = 70.1	x: 0 m h = 34.7	h = 1.3	N.A.(2)	N.A.(5)	**PASSA h = 70.1**
N39/N222	N.A.(3)	x: 0.25 m h = 6.3	N.A.(4)	x: 0 m h = 12.9	x: 0 m h = 12.7	h = 0.8	x: 0 m h = 53.9	x: 0 m h = 25.6	h = 1.5	N.A.(2)	N.A.(5)	**PASSA h = 53.9**
N222/N68	N.A.(3)	x: 1.129 m h = 8.7	N.A.(4)	x: 0 m h = 12.3	x: 0 m h = 11.5	h = 0.8	x: 0 m h = 10.1	x: 0 m h = 25.1	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 25.1**
N68/N221	N.A.(3)	x: 1.129 m h = 8.7	N.A.(4)	x: 0 m h = 4.5	x: 0 m h = 6.3	h = 0.8	x: 0 m h = 9.9	x: 0 m h = 13.4	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 13.4**
N221/N12	N.A.(3)	x: 0.25 m h = 9.6	N.A.(4)	x: 0.25 m h = 6.7	x: 0 m h = 1.1	x: 0.25 m h = 0.8	x: 0 m h = 62.4	x: 0.25 m h = 11.4	h = 5.5	N.A.(2)	x: 0 m h = 65.6	**PASSA h = 65.6**
N12/N220	N.A.(3)	x: 0.25 m h = 9.9	N.A.(4)	x: 0.25 m h = 14.0	x: 0 m h = 0.3	h = 0.1	x: 0 m h = 45.4	x: 0.25 m h = 19.1	h = 5.6	N.A.(2)	x: 0 m h = 51.6	**PASSA h = 51.6**
N220/N69	N.A.(3)	x: 1.129 m h = 12.4	N.A.(4)	x: 1.129 m h = 7.0	x: 1.129 m h = 0.7	x: 1.129 m h = 0.1	x: 0 m h = 3.5	x: 1.129 m h = 13.7	h = 0.3	N.A.(2)	N.A.(5)	**PASSA h = 13.7**
N69/N219	N.A.(3)	x: 1.129 m h = 12.4	N.A.(4)	x: 1.129 m h = 9.6	x: 1.129 m h = 1.8	x: 1.129 m h = 0.2	x: 0 m h = 3.3	x: 1.129 m h = 16.7	h = 0.3	N.A.(2)	N.A.(5)	**PASSA h = 16.7**
N219/N38	N.A.(3)	x: 0.25 m h = 13.1	N.A.(4)	x: 0.25 m h = 11.1	x: 0.25 m h = 2.2	x: 0.25 m h = 0.3	x: 0 m h = 45.6	x: 0.25 m h = 18.7	h = 4.4	N.A.(2)	N.A.(5)	**PASSA h = 45.6**
N38/N218	N.A.(3)	x: 0.25 m h = 13.5	N.A.(4)	x: 0.25 m h = 15.1	x: 0.25 m h = 2.1	h = 0.5	x: 0 m h = 30.4	x: 0.25 m h = 22.5	h = 1.9	N.A.(2)	N.A.(5)	**PASSA h = 30.4**
N218/N70	N.A.(3)	x: 1.129 m h = 15.0	N.A.(4)	x: 1.129 m h = 10.1	x: 1.129 m h = 4.1	h = 0.5	x: 0 m h = 2.4	x: 1.129 m h = 18.5	h = 6.9	N.A.(2)	x: 1.129 m h = 26.7	**PASSA h = 26.7**
N70/N217	N.A.(3)	x: 1.129 m h = 15.0	N.A.(4)	x: 1.129 m h = 11.1	x: 1.129 m h = 7.2	h = 0.5	x: 0 m h = 2.2	x: 1.129 m h = 22.1	h = 6.9	N.A.(2)	x: 1.129 m h = 29.4	**PASSA h = 29.4**
N217/N11	N.A.(3)	x: 0.25 m h = 15.4	N.A.(4)	x: 0.25 m h = 12.8	x: 0.25 m h = 8.1	h = 0.5	x: 0 m h = 30.6	x: 0.25 m h = 24.3	h = 80.1	N.A.(2)	x: 0 m h = 87.7	**PASSA h = 87.7**
N7/N76	N.A.(3)	x: 1.374 m h = 4.3	N.A.(4)	x: 1.374 m h = 3.8	x: 1.374 m h = 7.1	x: 0 m h = 0.9	x: 1.374 m h = 3.9	x: 1.374 m h = 12.0	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 12.0**
N76/N206	N.A.(3)	x: 1.124 m h = 4.3	N.A.(4)	x: 1.124 m h = 7.0	x: 1.124 m h = 12.6	x: 0 m h = 0.8	x: 1.124 m h = 4.2	x: 1.124 m h = 20.3	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 20.3**
N206/N36	N.A.(3)	x: 0.25 m h = 6.2	N.A.(4)	x: 0 m h = 25.2	x: 0.25 m h = 13.6	h = 0.8	x: 0 m h = 69.1	x: 0 m h = 36.8	h = 1.3	N.A.(2)	N.A.(5)	**PASSA h = 69.1**
N36/N207	N.A.(3)	x: 0.25 m h = 6.4	N.A.(4)	x: 0 m h = 13.1	x: 0 m h = 13.4	h = 0.8	x: 0 m h = 53.9	x: 0 m h = 27.4	h = 1.4	N.A.(2)	N.A.(5)	**PASSA h = 53.9**
N207/N75	N.A.(3)	x: 1.124 m h = 8.7	N.A.(4)	x: 0 m h = 12.3	x: 0 m h = 12.3	x: 1.124 m h = 0.8	x: 0 m h = 10.1	x: 0 m h = 26.6	h = 0.5	N.A.(2)	N.A.(5)	**PASSA h = 26.6**
N75/N208	N.A.(3)	x: 1.124 m h = 8.7	N.A.(4)	x: 0 m h = 4.5	x: 0 m h = 7.0	x: 1.124 m h = 0.8	x: 0 m h = 9.9	x: 0 m h = 14.5	h = 0.5	N.A.(2)	N.A.(5)	**PASSA h = 14.5**
N208/N8	N.A.(3)	x: 0.25 m h = 9.8	N.A.(4)	x: 0.25 m h = 6.1	x: 0 m h = 1.4	x: 0.25 m h = 0.9	x: 0 m h = 62.3	x: 0.25 m h = 11.1	h = 6.8	N.A.(2)	x: 0 m h = 69.2	**PASSA h = 69.2**
N8/N209	N.A.(3)	x: 0.25 m h = 10.1	N.A.(4)	x: 0.25 m h = 13.7	x: 0 m h = 0.3	x: 0 m h = 0.1	x: 0 m h = 45.3	x: 0.25 m h = 18.9	h = 6.9	N.A.(2)	x: 0 m h = 52.2	**PASSA h = 52.2**
N209/N74	N.A.(3)	x: 1.124 m h = 12.3	N.A.(4)	x: 1.124 m h = 7.0	x: 1.124 m h = 0.4	x: 1.124 m h = 0.1	x: 0 m h = 3.5	x: 1.124 m h = 13.3	h = 0.3	N.A.(2)	N.A.(5)	**PASSA h = 13.3**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N74/N210	N.A.(3)	x: 1.124 m h = 12.3	N.A.(4)	x: 1.124 m h = 9.6	x: 1.124 m h = 0.9	x: 1.124 m h = 0.1	x: 0 m h = 3.3	x: 1.124 m h = 16.1	h = 0.3	N.A.(2)	N.A.(5)	**PASSA** **h = 16.1**
N210/N37	N.A.(3)	x: 0.25 m h = 13.2	N.A.(4)	x: 0.25 m h = 10.9	x: 0.25 m h = 1.2	x: 0.25 m h = 0.2	x: 0 m h = 45.5	x: 0.25 m h = 17.9	h = 4.8	N.A.(2)	N.A.(5)	**PASSA** **h = 45.5**
N37/N211	N.A.(3)	x: 0.25 m h = 13.6	N.A.(4)	x: 0.25 m h = 15.0	x: 0.25 m h = 1.6	h = 0.5	x: 0 m h = 30.2	x: 0.25 m h = 21.9	h = 2.2	N.A.(2)	N.A.(5)	**PASSA** **h = 30.2**
N211/N73	N.A.(3)	x: 1.124 m h = 14.9	N.A.(4)	x: 1.124 m h = 9.9	x: 1.124 m h = 4.3	h = 0.5	x: 0 m h = 2.1	x: 1.124 m h = 18.3	h = 5.5	N.A.(2)	x: 1.124 m h = 26.4	**PASSA** **h = 26.4**
N73/N212	N.A.(3)	x: 1.124 m h = 14.9	N.A.(4)	x: 1.124 m h = 10.7	x: 1.124 m h = 7.5	h = 0.5	x: 0 m h = 1.9	x: 1.124 m h = 22.6	h = 5.5	N.A.(2)	x: 1.124 m h = 29.8	**PASSA** **h = 29.8**
N212/N9	N.A.(3)	x: 0.25 m h = 15.4	N.A.(4)	x: 0.25 m h = 12.0	x: 0.25 m h = 8.4	h = 0.5	x: 0 m h = 30.4	x: 0.25 m h = 24.9	h = 64.9	N.A.(2)	x: 0 m h = 72.4	**PASSA** **h = 72.4**
N1/N59	N.A.(3)	x: 1.374 m h = 4.5	N.A.(4)	x: 1.374 m h = 4.7	x: 1.374 m h = 6.9	h = 0.8	x: 1.374 m h = 4.9	x: 1.374 m h = 12.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 12.5**
N59/N188	N.A.(3)	x: 1.124 m h = 4.5	N.A.(4)	x: 1.124 m h = 8.7	x: 1.124 m h = 12.6	h = 0.8	x: 1.124 m h = 5.1	x: 1.124 m h = 21.4	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 21.4**
N188/N24	N.A.(3)	x: 0.25 m h = 6.4	N.A.(4)	x: 0 m h = 28.1	x: 0.25 m h = 13.8	h = 0.8	x: 0 m h = 71.4	x: 0 m h = 38.4	h = 1.4	N.A.(2)	N.A.(5)	**PASSA** **h = 71.4**
N24/N189	N.A.(3)	x: 0.25 m h = 6.6	N.A.(4)	x: 0 m h = 15.6	x: 0 m h = 13.5	h = 0.8	x: 0 m h = 56.2	x: 0 m h = 29.0	h = 1.5	N.A.(2)	N.A.(5)	**PASSA** **h = 56.2**
N189/N60	N.A.(3)	x: 1.124 m h = 8.6	N.A.(4)	x: 0 m h = 11.3	x: 0 m h = 12.3	h = 0.8	x: 0 m h = 10.0	x: 0 m h = 25.1	h = 0.5	N.A.(2)	N.A.(5)	**PASSA** **h = 25.1**
N60/N190	N.A.(3)	x: 1.124 m h = 8.6	N.A.(4)	x: 1.124 m h = 4.5	x: 0 m h = 6.8	h = 0.8	x: 0 m h = 9.8	x: 0 m h = 13.3	h = 0.5	N.A.(2)	N.A.(5)	**PASSA** **h = 13.3**
N190/N2	N.A.(3)	x: 0.25 m h = 9.8	N.A.(4)	x: 0.25 m h = 6.6	x: 0 m h = 1.4	x: 0.25 m h = 0.9	x: 0 m h = 63.7	x: 0.25 m h = 11.6	h = 5.7	N.A.(2)	x: 0 m h = 69.8	**PASSA** **h = 69.8**
N2/N191	N.A.(3)	x: 0.25 m h = 10.1	N.A.(4)	x: 0.25 m h = 14.5	x: 0 m h = 0.5	h = 0.1	x: 0 m h = 46.7	x: 0.25 m h = 19.7	h = 6.0	N.A.(2)	x: 0 m h = 53.2	**PASSA** **h = 53.2**
N191/N61	N.A.(3)	x: 1.124 m h = 12.4	N.A.(4)	x: 1.124 m h = 7.5	x: 1.124 m h = 1.2	x: 1.124 m h = 0.2	x: 0 m h = 3.4	x: 1.124 m h = 14.1	h = 0.3	N.A.(2)	N.A.(5)	**PASSA** **h = 14.1**
N61/N192	N.A.(3)	x: 1.124 m h = 12.4	N.A.(4)	x: 1.124 m h = 9.9	x: 1.124 m h = 2.8	x: 1.124 m h = 0.3	x: 0 m h = 3.1	x: 1.124 m h = 17.0	h = 0.3	N.A.(2)	N.A.(5)	**PASSA** **h = 17.0**
N192/N25	N.A.(3)	x: 0.25 m h = 13.3	N.A.(4)	x: 0.25 m h = 11.1	x: 0.25 m h = 3.3	x: 0.25 m h = 0.3	x: 0 m h = 45.8	x: 0.25 m h = 18.7	h = 4.9	N.A.(2)	N.A.(5)	**PASSA** **h = 45.8**
N25/N193	N.A.(3)	x: 0.25 m h = 13.7	N.A.(4)	x: 0.25 m h = 15.3	x: 0 m h = 3.0	x: 0 m h = 0.5	x: 0 m h = 30.6	x: 0.25 m h = 22.5	h = 1.9	N.A.(2)	N.A.(5)	**PASSA** **h = 30.6**
N193/N62	N.A.(3)	x: 1.124 m h = 15.0	N.A.(4)	x: 1.124 m h = 10.3	x: 1.124 m h = 2.8	h = 0.4	x: 0 m h = 2.3	x: 1.124 m h = 19.7	h = 6.8	N.A.(2)	x: 0 m h = 24.7	**PASSA** **h = 24.7**
N62/N194	N.A.(3)	x: 1.124 m h = 15.0	N.A.(4)	x: 1.124 m h = 11.2	x: 1.124 m h = 5.5	h = 0.4	x: 0 m h = 2.1	x: 1.124 m h = 24.2	h = 6.8	N.A.(2)	x: 1.124 m h = 29.1	**PASSA** **h = 29.1**
N194/N3	N.A.(3)	x: 0.25 m h = 15.6	N.A.(4)	x: 0.25 m h = 12.7	x: 0.25 m h = 5.9	h = 0.4	x: 0 m h = 30.8	x: 0.25 m h = 26.3	h = 79.3	N.A.(2)	x: 0 m h = 86.6	**PASSA** **h = 86.6**
N6/N66	N.A.(3)	x: 1.379 m h = 4.5	N.A.(4)	x: 1.379 m h = 3.7	x: 1.379 m h = 6.6	x: 0 m h = 0.8	x: 1.379 m h = 3.9	x: 1.379 m h = 11.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 11.6**
N66/N205	N.A.(3)	x: 1.129 m h = 4.5	N.A.(4)	x: 1.129 m h = 6.9	x: 1.129 m h = 11.8	x: 0 m h = 0.8	x: 1.129 m h = 4.1	x: 1.129 m h = 19.5	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA** **h = 19.5**
N205/N29	N.A.(3)	x: 0.25 m h = 5.8	N.A.(4)	x: 0 m h = 24.7	x: 0.25 m h = 12.8	h = 0.7	x: 0 m h = 70.5	x: 0 m h = 35.5	h = 1.1	N.A.(2)	N.A.(5)	**PASSA** **h = 70.5**
N29/N204	N.A.(3)	x: 0.25 m h = 6.3	N.A.(4)	x: 0 m h = 12.8	x: 0 m h = 12.5	h = 0.7	x: 0 m h = 53.7	x: 0 m h = 26.1	h = 1.3	N.A.(2)	N.A.(5)	**PASSA** **h = 53.7**
N204/N65	N.A.(3)	x: 1.129 m h = 8.7	N.A.(4)	x: 0 m h = 12.3	x: 0 m h = 11.5	x: 1.129 m h = 0.7	x: 0 m h = 10.1	x: 0 m h = 25.8	h = 0.4	N.A.(2)	N.A.(5)	**PASSA** **h = 25.8**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N65/N203	N.A.(3)	x: 1.129 m h = 8.7	N.A.(4)	x: 0 m h = 4.5	x: 0 m h = 6.6	x: 1.129 m h = 0.8	x: 0 m h = 9.9	x: 0 m h = 14.1	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 14.1**
N203/N5	N.A.(3)	x: 0.25 m h = 9.5	N.A.(4)	x: 0.25 m h = 6.7	x: 0 m h = 1.5	x: 0.25 m h = 0.9	x: 0 m h = 62.2	x: 0.25 m h = 11.7	h = 6.2	N.A.(2)	x: 0 m h = 68.9	**PASSA h = 68.9**
N5/N202	N.A.(3)	x: 0.25 m h = 10.0	N.A.(4)	x: 0.25 m h = 13.9	x: 0.25 m h = 0.3	h = 0.1	x: 0 m h = 45.2	x: 0.25 m h = 19.0	h = 6.5	N.A.(2)	x: 0 m h = 52.0	**PASSA h = 52.0**
N202/N64	N.A.(3)	x: 1.129 m h = 12.4	N.A.(4)	x: 1.129 m h = 7.0	x: 1.129 m h = 0.8	x: 1.129 m h = 0.1	x: 0 m h = 3.5	x: 1.129 m h = 13.4	h = 0.3	N.A.(2)	N.A.(5)	**PASSA h = 13.4**
N64/N201	N.A.(3)	x: 1.129 m h = 12.4	N.A.(4)	x: 1.129 m h = 9.6	x: 1.129 m h = 1.9	x: 1.129 m h = 0.2	x: 0 m h = 3.3	x: 1.129 m h = 16.2	h = 0.3	N.A.(2)	N.A.(5)	**PASSA h = 16.2**
N201/N28	N.A.(3)	x: 0.25 m h = 13.1	N.A.(4)	x: 0.25 m h = 11.1	x: 0.25 m h = 2.2	x: 0.25 m h = 0.2	x: 0 m h = 45.4	x: 0.25 m h = 18.1	h = 4.4	N.A.(2)	N.A.(5)	**PASSA h = 45.4**
N28/N200	N.A.(3)	x: 0.25 m h = 13.5	N.A.(4)	x: 0.25 m h = 15.0	x: 0 m h = 2.3	h = 0.3	x: 0 m h = 30.1	x: 0.25 m h = 21.8	h = 2.1	N.A.(2)	N.A.(5)	**PASSA h = 30.1**
N200/N63	N.A.(3)	x: 1.129 m h = 14.9	N.A.(4)	x: 1.129 m h = 9.9	x: 1.129 m h = 3.5	h = 0.3	x: 0 m h = 2.1	x: 1.129 m h = 19.2	h = 5.2	N.A.(2)	x: 0 m h = 23.7	**PASSA h = 23.7**
N63/N199	N.A.(3)	x: 1.129 m h = 14.9	N.A.(4)	x: 1.129 m h = 10.7	x: 1.129 m h = 5.3	h = 0.3	x: 0 m h = 1.9	x: 1.129 m h = 22.6	h = 5.2	N.A.(2)	x: 1.129 m h = 24.6	**PASSA h = 24.6**
N199/N4	N.A.(3)	x: 0.25 m h = 15.3	N.A.(4)	x: 0.25 m h = 12.1	x: 0.25 m h = 5.9	h = 0.3	x: 0 m h = 30.3	x: 0.25 m h = 24.8	h = 61.4	N.A.(2)	x: 0 m h = 68.3	**PASSA h = 68.3**
N43/N172	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 14.2	x: 0.25 m h = 16.8	x: 0 m h = 0.7	x: 0 m h = 0.1	x: 0 m h = 62.3	x: 0.25 m h = 24.0	h = 0.9	N.A.(2)	N.A.(5)	**PASSA h = 62.3**
N172/N14	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 16.1	x: 1.124 m h = 4.8	x: 0 m h = 0.5	h < 0.1	x: 0 m h = 2.9	x: 1.124 m h = 13.0	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 16.1**
N14/N173	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 16.1	x: 1.124 m h = 8.2	x: 1.124 m h = 0.6	x: 1.124 m h < 0.1	x: 0 m h = 2.8	x: 1.124 m h = 16.6	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 16.6**
N173/N44	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 19.3	x: 0 m h = 8.7	x: 0.25 m h = 0.8	x: 0.25 m h = 0.1	x: 0 m h = 49.7	x: 0 m h = 18.5	h = 1.5	N.A.(2)	N.A.(5)	**PASSA h = 49.7**
N44/N174	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 19.1	x: 0.25 m h = 19.7	x: 0 m h = 0.9	x: 0 m h = 0.3	x: 0 m h = 49.1	x: 0.25 m h = 29.6	h = 1.0	N.A.(2)	N.A.(5)	**PASSA h = 49.1**
N174/N26	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 20.7	x: 1.124 m h = 9.4	x: 1.124 m h = 0.7	x: 0 m h = 0.2	x: 0 m h = 1.7	x: 1.124 m h = 29.1	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 29.1**
N26/N176	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 20.7	x: 1.124 m h = 10.9	x: 1.124 m h = 1.5	x: 0 m h = 0.1	x: 0 m h = 1.5	x: 1.124 m h = 30.5	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 30.5**
N176/N46	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 22.5	x: 0.25 m h = 9.1	x: 0.25 m h = 1.5	h = 0.1	x: 0 m h = 31.8	x: 0.25 m h = 30.6	h = 6.1	N.A.(2)	x: 0.25 m h = 39.2	**PASSA h = 39.2**
N46/N175	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 22.4	x: 0.25 m h = 17.2	x: 0 m h = 1.6	x: 0.25 m h = 0.7	x: 0 m h = 31.3	x: 0.25 m h = 37.6	h = 10.6	N.A.(2)	x: 0.25 m h = 44.8	**PASSA h = 44.8**
N175/N15	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.5	x: 0 m h = 10.5	x: 1.124 m h = 2.7	x: 1.124 m h = 0.5	x: 1.124 m h = 1.1	x: 0 m h = 32.7	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 32.7**
N15/N178	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.5	x: 0 m h = 9.3	x: 1.124 m h = 6.2	x: 1.124 m h = 0.5	x: 1.124 m h = 1.3	x: 1.124 m h = 32.4	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 32.4**
N178/N49	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.6	x: 0 m h = 5.8	x: 0.25 m h = 6.5	x: 0.25 m h = 0.3	x: 0 m h = 3.5	x: 0.25 m h = 30.6	h = 13.1	N.A.(2)	x: 0.25 m h = 35.7	**PASSA h = 35.7**
N40/N170	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 5.6	x: 0 m h = 33.5	x: 0 m h = 1.3	h = 0.1	x: 0 m h = 87.7	x: 0 m h = 36.8	h = 4.9	N.A.(2)	N.A.(5)	**PASSA h = 87.7**
N170/N23	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 7.6	x: 0 m h = 30.4	x: 0 m h = 1.3	h = 0.1	x: 0 m h = 11.9	x: 0 m h = 34.6	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 34.6**
N23/N171	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 7.6	x: 0 m h = 19.7	x: 0 m h = 0.5	h = 0.1	x: 0 m h = 11.7	x: 0 m h = 23.7	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 23.7**
N171/N43	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 9.5	x: 0 m h = 11.7	x: 0.25 m h = 0.4	x: 0.25 m h = 0.1	x: 0 m h = 56.3	x: 0 m h = 16.5	h = 0.6	N.A.(2)	N.A.(5)	**PASSA h = 56.3**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N41/N241	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 5.6	x: 0 m h = 33.0	x: 0 m h = 1.6	h = 0.1	x: 0 m h = 86.4	x: 0 m h = 36.6	h = 5.6	N.A.(2)	x: 0 m h = 95.1	**PASSA h = 95.1**
N241/N34	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 7.5	x: 0 m h = 29.4	x: 0 m h = 1.5	h = 0.1	x: 0 m h = 13.9	x: 0 m h = 33.8	h = 0.7	N.A.(2)	N.A.(5)	**PASSA h = 33.8**
N34/N240	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 7.5	x: 0 m h = 16.9	x: 0 m h = 0.6	h = 0.1	x: 0 m h = 13.7	x: 0 m h = 20.9	h = 0.7	N.A.(2)	N.A.(5)	**PASSA h = 20.9**
N240/N42	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 9.6	x: 0 m h = 14.4	x: 0.25 m h = 0.5	h = 0.1	x: 0 m h = 55.9	x: 0 m h = 19.4	h = 0.9	N.A.(2)	N.A.(5)	**PASSA h = 55.9**
N42/N239	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 14.4	x: 0.25 m h = 12.3	x: 0 m h = 0.9	x: 0 m h = 0.1	x: 0 m h = 61.8	x: 0.25 m h = 19.8	h = 0.5	N.A.(2)	N.A.(5)	**PASSA h = 61.8**
N239/N19	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 16.2	x: 1.124 m h = 3.0	x: 0 m h = 0.9	h = 0.1	x: 0 m h = 4.1	x: 1.124 m h = 11.1	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 16.2**
N19/N238	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 16.2	x: 1.124 m h = 7.8	x: 0 m h = 0.5	h = 0.1	x: 0 m h = 4.0	x: 1.124 m h = 16.0	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 16.2**
N238/N45	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 19.3	x: 0 m h = 8.7	x: 0.25 m h = 0.5	x: 0.25 m h = 0.1	x: 0 m h = 49.2	x: 0 m h = 18.4	h = 1.2	N.A.(2)	N.A.(5)	**PASSA h = 49.2**
N45/N237	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 19.2	x: 0.25 m h = 19.3	x: 0 m h = 0.5	x: 0 m h = 0.2	x: 0 m h = 48.7	x: 0.25 m h = 29.0	h = 1.1	N.A.(2)	N.A.(5)	**PASSA h = 48.7**
N237/N35	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 20.7	x: 1.124 m h = 9.2	x: 1.124 m h = 0.8	x: 0 m h = 0.2	x: 0 m h = 1.6	x: 1.124 m h = 29.0	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 29.0**
N35/N236	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 20.7	x: 1.124 m h = 10.7	x: 1.124 m h = 1.5	x: 0 m h = 0.1	x: 0 m h = 1.5	x: 1.124 m h = 30.5	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 30.5**
N236/N47	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 22.5	x: 0.25 m h = 8.9	x: 0.25 m h = 1.5	h = 0.1	x: 0 m h = 31.6	x: 0.25 m h = 30.7	h = 4.7	N.A.(2)	N.A.(5)	**PASSA h = 31.6**
N47/N235	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 22.3	x: 0.25 m h = 16.9	x: 0 m h = 1.6	h = 0.6	x: 0 m h = 31.1	x: 0.25 m h = 37.6	h = 8.4	N.A.(2)	x: 0.25 m h = 43.4	**PASSA h = 43.4**
N235/N20	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.4	x: 0 m h = 10.4	x: 1.124 m h = 2.8	h = 0.5	x: 1.124 m h = 1.1	x: 0 m h = 32.6	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 32.6**
N20/N234	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.4	x: 0 m h = 9.1	x: 1.124 m h = 5.9	x: 1.124 m h = 0.5	x: 1.124 m h = 1.2	x: 0 m h = 31.6	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 31.6**
N234/N48	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.6	x: 0 m h = 5.6	x: 0.25 m h = 6.3	x: 0.25 m h = 0.4	x: 0 m h = 3.8	x: 0.25 m h = 29.8	h = 11.1	N.A.(2)	x: 0.25 m h = 34.6	**PASSA h = 34.6**
N33/N226	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 15.1	x: 0.25 m h = 12.0	x: 0 m h = 1.0	x: 0 m h = 0.1	x: 0 m h = 62.0	x: 0.25 m h = 19.6	h = 0.4	N.A.(2)	N.A.(5)	**PASSA h = 62.0**
N226/N22	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 16.5	x: 1.129 m h = 3.3	x: 0 m h = 0.8	x: 0 m h = 0.1	x: 0 m h = 4.1	x: 1.129 m h = 11.4	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 16.5**
N22/N227	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 16.5	x: 1.129 m h = 7.9	x: 0 m h = 0.6	x: 0 m h < 0.1	x: 0 m h = 4.0	x: 1.129 m h = 16.2	h < 0.1	N.A.(2)	N.A.(5)	**PASSA h = 16.5**
N227/N54	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 19.9	x: 0 m h = 9.0	x: 0.25 m h = 0.7	x: 0.25 m h = 0.1	x: 0 m h = 49.2	x: 0 m h = 18.9	h = 1.9	N.A.(2)	N.A.(5)	**PASSA h = 49.2**
N54/N228	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 19.7	x: 0.25 m h = 19.1	x: 0 m h = 0.8	x: 0 m h = 0.4	x: 0 m h = 48.7	x: 0.25 m h = 29.0	h = 1.2	N.A.(2)	N.A.(5)	**PASSA h = 48.7**
N228/N32	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 20.9	x: 1.129 m h = 9.3	x: 1.129 m h = 1.6	x: 0 m h = 0.3	x: 0 m h = 1.6	x: 1.129 m h = 29.2	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 29.2**
N32/N229	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 20.9	x: 1.129 m h = 10.8	x: 1.129 m h = 3.1	x: 0 m h = 0.2	x: 0 m h = 1.5	x: 1.129 m h = 30.6	h = 0.2	N.A.(2)	N.A.(5)	**PASSA h = 30.6**
N229/N52	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.0	x: 0.25 m h = 8.9	x: 0.25 m h = 3.5	h = 0.3	x: 0 m h = 31.5	x: 0.25 m h = 30.7	h = 5.4	N.A.(2)	x: 0.25 m h = 38.8	**PASSA h = 38.8**
N52/N230	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 22.8	x: 0.25 m h = 16.8	x: 0 m h = 3.6	x: 0.25 m h = 0.7	x: 0 m h = 30.9	x: 0.25 m h = 37.9	h = 10.8	N.A.(2)	x: 0.25 m h = 45.0	**PASSA h = 45.0**
N230/N21	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.7	x: 0 m h = 10.6	x: 0 m h = 2.6	x: 1.129 m h = 0.5	x: 1.129 m h = 1.2	x: 0 m h = 33.0	h = 1.8	N.A.(2)	N.A.(5)	**PASSA h = 33.0**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N21/N231	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.7	x: 0 m h = 9.2	x: 1.129 m h = 4.9	x: 1.129 m h = 0.6	x: 1.129 m h = 1.3	x: 0 m h = 32.1	h = 1.8	N.A.(2)	N.A.(5)	**PASSA** **h = 32.1**
N231/N50	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.8	x: 0 m h = 5.7	x: 0.25 m h = 3.9	h = 0.3	x: 0 m h = 3.3	x: 0.25 m h = 28.9	h = 79.2	N.A.(2)	x: 0 m h = 81.9	**PASSA** **h = 81.9**
N56/N224	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 6.2	x: 0 m h = 33.8	x: 0 m h = 1.1	h = 0.1	x: 0 m h = 86.7	x: 0 m h = 36.9	h = 4.5	N.A.(2)	N.A.(5)	**PASSA** **h = 86.7**
N224/N31	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 7.6	x: 0 m h = 29.6	x: 0 m h = 1.0	x: 1.129 m h = 0.1	x: 0 m h = 14.0	x: 0 m h = 33.5	h = 0.6	N.A.(2)	N.A.(5)	**PASSA** **h = 33.5**
N31/N225	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 7.6	x: 0 m h = 17.0	x: 0 m h = 0.5	x: 1.129 m h = 0.1	x: 0 m h = 13.8	x: 0 m h = 20.9	h = 0.6	N.A.(2)	N.A.(5)	**PASSA** **h = 20.9**
N225/N33	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 10.1	x: 0 m h = 14.7	x: 0.25 m h = 0.5	x: 0.25 m h = 0.2	x: 0 m h = 56.0	x: 0 m h = 19.7	h = 1.1	N.A.(2)	N.A.(5)	**PASSA** **h = 56.0**
N58/N185	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 15.1	x: 0.25 m h = 12.1	x: 0 m h = 1.1	x: 0 m h = 0.2	x: 0 m h = 61.8	x: 0.25 m h = 19.7	h = 0.6	N.A.(2)	N.A.(5)	**PASSA** **h = 61.8**
N185/N18	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 16.5	x: 1.129 m h = 3.4	x: 0 m h = 0.9	x: 0 m h = 0.1	x: 0 m h = 4.1	x: 1.129 m h = 11.5	h = 0.1	N.A.(2)	N.A.(5)	**PASSA** **h = 16.5**
N18/N184	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 16.5	x: 1.129 m h = 7.9	x: 0 m h = 0.5	x: 0 m h < 0.1	x: 0 m h = 3.9	x: 1.129 m h = 16.2	h = 0.1	N.A.(2)	N.A.(5)	**PASSA** **h = 16.5**
N184/N55	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 19.9	x: 0 m h = 9.0	x: 0.25 m h = 0.6	x: 0.25 m h = 0.1	x: 0 m h = 49.0	x: 0 m h = 18.8	h = 1.7	N.A.(2)	N.A.(5)	**PASSA** **h = 49.0**
N55/N183	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 19.8	x: 0.25 m h = 19.0	x: 0 m h = 0.7	x: 0 m h = 0.4	x: 0 m h = 48.5	x: 0.25 m h = 29.0	h = 1.4	N.A.(2)	N.A.(5)	**PASSA** **h = 48.5**
N183/N27	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 21.0	x: 1.129 m h = 9.2	x: 1.129 m h = 1.9	x: 0 m h = 0.3	x: 0 m h = 1.6	x: 1.129 m h = 29.6	h = 0.1	N.A.(2)	N.A.(5)	**PASSA** **h = 29.6**
N27/N182	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 21.0	x: 1.129 m h = 10.7	x: 1.129 m h = 3.6	x: 0 m h = 0.3	x: 0 m h = 1.5	x: 1.129 m h = 31.2	h = 0.1	N.A.(2)	N.A.(5)	**PASSA** **h = 31.2**
N182/N53	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.0	x: 0.25 m h = 8.8	x: 0.25 m h = 3.8	h = 0.2	x: 0 m h = 31.5	x: 0.25 m h = 31.4	h = 3.4	N.A.(2)	N.A.(5)	**PASSA** **h = 31.5**
N53/N181	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 22.9	x: 0.25 m h = 16.7	x: 0 m h = 3.9	x: 0.25 m h = 0.7	x: 0 m h = 31.0	x: 0.25 m h = 38.3	h = 8.6	N.A.(2)	x: 0.25 m h = 43.9	**PASSA** **h = 43.9**
N181/N17	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.7	x: 0 m h = 10.4	x: 0 m h = 2.9	x: 1.129 m h = 0.6	x: 1.129 m h = 1.2	x: 0 m h = 33.4	h = 1.8	N.A.(2)	N.A.(5)	**PASSA** **h = 33.4**
N17/N180	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.7	x: 0 m h = 9.1	x: 1.129 m h = 4.6	x: 1.129 m h = 0.6	x: 1.129 m h = 1.3	x: 0 m h = 32.0	h = 1.8	N.A.(2)	N.A.(5)	**PASSA** **h = 32.0**
N180/N51	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.9	x: 0 m h = 5.5	x: 0.25 m h = 3.8	x: 0.25 m h = 0.3	x: 0 m h = 3.7	x: 0.25 m h = 28.7	h = 74.8	N.A.(2)	x: 0 m h = 77.9	**PASSA** **h = 77.9**
N57/N187	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 6.3	x: 0 m h = 33.9	x: 0 m h = 1.4	h = 0.1	x: 0 m h = 87.1	x: 0 m h = 37.5	h = 4.9	N.A.(2)	N.A.(5)	**PASSA** **h = 87.1**
N187/N30	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 7.7	x: 0 m h = 29.5	x: 0 m h = 1.3	h = 0.1	x: 0 m h = 14.0	x: 0 m h = 33.8	h = 0.6	N.A.(2)	N.A.(5)	**PASSA** **h = 33.8**
N30/N186	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 7.7	x: 0 m h = 17.0	x: 0 m h = 0.6	h = 0.1	x: 0 m h = 13.8	x: 0 m h = 21.0	h = 0.6	N.A.(2)	N.A.(5)	**PASSA** **h = 21.0**
N186/N58	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 10.1	x: 0 m h = 14.6	x: 0.25 m h = 0.6	x: 0.25 m h = 0.2	x: 0 m h = 55.8	x: 0 m h = 19.8	h = 1.1	N.A.(2)	N.A.(5)	**PASSA** **h = 55.8**
N51/N179	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.5	x: 0.25 m h = 9.2	x: 0.25 m h = 4.4	h = 0.2	x: 0 m h = 13.5	x: 0.25 m h = 31.9	h = 59.8	N.A.(2)	x: 0 m h = 68.1	**PASSA** **h = 68.1**
N179/N16	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 24.2	x: 0.932 m h = 7.6	x: 1.119 m h = 5.4	x: 1.119 m h = 0.1	x: 0 m h = 0.3	x: 1.119 m h = 31.7	h = 1.6	N.A.(2)	N.A.(5)	**PASSA** **h = 31.7**
N16/N177	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 24.2	x: 0 m h = 7.6	x: 1.119 m h = 6.2	x: 1.119 m h = 0.1	x: 1.119 m h = 0.4	x: 1.119 m h = 32.0	h = 1.6	N.A.(2)	N.A.(5)	**PASSA** **h = 32.0**
N177/N49	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.5	x: 0 m h = 9.2	x: 0.25 m h = 6.6	x: 0.25 m h = 0.2	x: 0.25 m h = 13.3	x: 0 m h = 32.7	h = 7.1	N.A.(2)	x: 0 m h = 38.4	**PASSA** **h = 38.4**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	s t f	
N50/N232	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.5	x: 0.25 m h = 9.0	x: 0.25 m h = 4.6	h = 0.3	x: 0 m h = 13.1	x: 0.25 m h = 32.0	h = 60.1	N.A.(2)	x: 0 m h = 67.7	**PASSA h = 67.7**
N232/N169	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 24.2	x: 0.746 m h = 7.5	x: 1.119 m h = 5.4	h = 0.1	x: 0 m h = 0.3	x: 0 m h = 31.3	h = 1.5	N.A.(2)	N.A.(5)	**PASSA h = 31.3**
N169/N233	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 24.2	x: 0 m h = 7.5	x: 1.119 m h = 6.2	h = 0.1	x: 1.119 m h = 0.4	x: 1.119 m h = 31.6	h = 1.5	N.A.(2)	N.A.(5)	**PASSA h = 31.6**
N233/N48	l £ 200.0 Passa	N.A.(1)	x: 0 m h = 23.4	x: 0 m h = 9.2	x: 0.25 m h = 6.4	x: 0.25 m h = 0.2	x: 0.25 m h = 13.6	x: 0 m h = 32.3	h = 5.8	N.A.(2)	x: 0 m h = 37.6	**PASSA h = 37.6**
N96/N97	N.A.(3)	x: 2.757 m h = 1.9	N.A.(4)	x: 1.379 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.379 m h = 1.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 1.9**
N97/N95	N.A.(3)	x: 2.757 m h = 2.1	N.A.(4)	x: 1.379 m h = 0.6	N.A.(8)	N.A.(9)	x: 0 m h = 0.2	x: 1.379 m h = 1.6	N.A.(6)	N.A.(7)	N.A.(5)	**PASSA h = 2.1**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	s t f	
N57/N97	N.A.(10)	x: 7.004 m h = 0.4	x: 0 m h = 2.9	x: 3.502 m h = 4.6	x: 3.502 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 23.3	**PASSA h = 23.3**
N56/N97	N.A.(10)	x: 5.63 m h = 0.6	x: 0 m h = 3.2	x: 2.815 m h = 3.0	x: 2.815 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 16.4	**PASSA h = 16.4**
N58/N95	N.A.(10)	N.A.(1)	x: 0 m h = 2.4	x: 3.502 m h = 4.6	x: 3.502 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 22.7	**PASSA h = 22.7**
N33/N95	N.A.(10)	N.A.(1)	x: 0 m h = 2.7	x: 2.815 m h = 3.0	x: 2.815 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 15.9	**PASSA h = 15.9**
N55/N94	N.A.(10)	N.A.(1)	x: 0 m h = 8.3	x: 3.502 m h = 4.6	x: 3.502 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 28.7	**PASSA h = 28.7**
N54/N94	N.A.(10)	N.A.(1)	x: 0 m h = 8.9	x: 2.815 m h = 3.0	x: 2.815 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 22.1	**PASSA h = 22.1**
N53/N93	N.A.(10)	N.A.(1)	x: 0 m h = 5.7	x: 3.502 m h = 4.6	x: 3.502 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 26.1	**PASSA h = 26.1**
N52/N93	N.A.(10)	N.A.(1)	x: 0 m h = 7.3	x: 2.815 m h = 3.0	x: 2.815 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 20.5	**PASSA h = 20.5**
N41/N89	N.A.(10)	N.A.(1)	x: 0 m h = 5.2	x: 6.563 m h = 14.0	x: 3.5 m h = 10.3	x: 0 m h = 0.2	x: 0 m h = 0.4	N.A.(2)	N.A.(6)	N.A.(7)	x: 4.375 m h = 37.3	**PASSA h = 37.3**
N40/N89	N.A.(10)	N.A.(1)	x: 0 m h = 5.5	x: 2.813 m h = 3.0	x: 2.813 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 18.6	**PASSA h = 18.6**
N42/N90	N.A.(10)	N.A.(1)	x: 0 m h = 4.1	x: 5.25 m h = 11.2	x: 3.5 m h = 9.3	x: 7 m h = 0.2	x: 0 m h = 0.3	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.938 m h = 31.7	**PASSA h = 31.7**
N43/N90	N.A.(10)	N.A.(1)	x: 0 m h = 5.0	x: 2.813 m h = 3.0	x: 2.813 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 18.1	**PASSA h = 18.1**
N47/N92	N.A.(10)	N.A.(1)	x: 0 m h = 5.3	x: 7 m h = 3.6	x: 7 m h = 8.9	x: 7 m h = 0.3	x: 7 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 7 m h = 18.8	**PASSA h = 18.8**
N46/N92	N.A.(10)	N.A.(1)	x: 0 m h = 6.0	x: 2.813 m h = 3.0	x: 2.813 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 19.2	**PASSA h = 19.2**
N93/N49	N.A.(10)	N.A.(1)	x: 0 m h = 2.3	x: 2.81 m h = 3.0	x: 2.81 m h = 6.0	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.81 m h = 15.4	**PASSA h = 15.4**
N93/N48	N.A.(10)	N.A.(1)	x: 0 m h = 2.4	x: 0 m h = 4.5	x: 0 m h = 9.3	x: 0 m h = 0.3	x: 0 m h = 0.3	N.A.(2)	N.A.(6)	N.A.(7)	x: 0 m h = 19.1	**PASSA h = 19.1**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	s t f	
N45/N91	N.A.(10)	N.A.(1)	x: 0 m h = 4.4	x: 4.813 m h = 8.9	x: 3.5 m h = 8.3	x: 7 m h = 0.2	x: 0 m h = 0.3	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.5 m h = 27.0	**PASSA** **h = 27.0**
N44/N91	N.A.(10)	N.A.(1)	x: 0 m h = 4.8	x: 2.813 m h = 3.0	x: 2.813 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 18.0	**PASSA** **h = 18.0**
N88/N42	N.A.(10)	x: 5.625 m h = 0.3	x: 0 m h = 3.7	x: 2.813 m h = 3.0	x: 2.813 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 16.8	**PASSA** **h = 16.8**
N88/N43	N.A.(10)	x: 7 m h < 0.1	x: 0 m h = 4.5	x: 3.5 m h = 4.6	x: 3.5 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.5 m h = 24.9	**PASSA** **h = 24.9**
N89/N45	N.A.(3)	x: 5.625 m h = 2.1	N.A.(4)	x: 2.813 m h = 3.0	x: 2.813 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 12.7	**PASSA** **h = 12.7**
N89/N44	N.A.(10)	x: 7 m h = 1.0	x: 0 m h < 0.1	x: 3.5 m h = 4.6	x: 3.5 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.5 m h = 20.3	**PASSA** **h = 20.3**
N90/N47	N.A.(10)	x: 5.625 m h = 1.7	x: 0 m h = 1.5	x: 2.813 m h = 3.0	x: 2.813 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 14.5	**PASSA** **h = 14.5**
N90/N46	N.A.(10)	x: 7 m h = 0.8	x: 0 m h = 1.8	x: 3.5 m h = 4.6	x: 3.5 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.5 m h = 22.1	**PASSA** **h = 22.1**
N91/N48	N.A.(10)	x: 5.625 m h = 0.1	x: 0 m h = 2.3	x: 2.813 m h = 3.0	x: 2.813 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 15.4	**PASSA** **h = 15.4**
N91/N49	N.A.(10)	N.A.(1)	x: 0 m h = 3.0	x: 3.5 m h = 4.6	x: 3.5 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.5 m h = 23.4	**PASSA** **h = 23.4**
N50/N92	N.A.(10)	N.A.(1)	x: 0 m h = 3.6	x: 2.81 m h = 3.0	x: 2.81 m h = 6.0	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.81 m h = 16.7	**PASSA** **h = 16.7**
N51/N92	N.A.(10)	N.A.(1)	x: 0 m h = 3.3	x: 3.498 m h = 4.6	x: 3.498 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.498 m h = 23.7	**PASSA** **h = 23.7**
N94/N50	N.A.(3)	x: 7.004 m h = 2.2	N.A.(4)	x: 3.502 m h = 4.6	x: 3.502 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 19.9	**PASSA** **h = 19.9**
N94/N51	N.A.(3)	x: 5.63 m h = 3.7	N.A.(4)	x: 2.815 m h = 3.0	x: 2.815 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 12.9	**PASSA** **h = 12.9**
N95/N52	N.A.(10)	N.A.(1)	x: 0 m h = 4.4	x: 3.502 m h = 4.6	x: 3.502 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 24.8	**PASSA** **h = 24.8**
N95/N53	N.A.(10)	x: 5.63 m h = 0.9	x: 0 m h = 3.3	x: 2.815 m h = 3.0	x: 2.815 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 16.5	**PASSA** **h = 16.5**
N97/N54	N.A.(10)	N.A.(1)	x: 0 m h = 2.2	x: 3.502 m h = 4.6	x: 3.502 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 22.5	**PASSA** **h = 22.5**
N97/N55	N.A.(10)	N.A.(1)	x: 0 m h = 2.5	x: 2.815 m h = 3.0	x: 2.815 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 15.6	**PASSA** **h = 15.6**
N96/N33	N.A.(10)	x: 7.004 m h = 1.1	x: 0 m h = 4.5	x: 3.502 m h = 4.6	x: 3.502 m h = 9.4	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 24.8	**PASSA** **h = 24.8**
N96/N58	N.A.(10)	x: 5.63 m h = 0.9	x: 0 m h = 4.1	x: 2.815 m h = 3.0	x: 2.815 m h = 6.1	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 17.3	**PASSA** **h = 17.3**
N79/N37	N.A.(10)	x: 5.625 m h = 14.0	x: 0 m h = 14.6	x: 2.813 m h = 4.9	x: 2.813 m h = 9.7	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 27.4	**PASSA** **h = 27.4**
N79/N25	N.A.(10)	x: 7 m h = 14.9	x: 0 m h = 17.0	x: 3.5 m h = 7.6	x: 3.5 m h = 15.0	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.5 m h = 36.9	**PASSA** **h = 36.9**
N78/N8	N.A.(10)	x: 5.625 m h = 28.7	x: 0 m h = 33.3	x: 2.813 m h = 4.9	x: 2.813 m h = 9.7	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 46.1	**PASSA** **h = 46.1**
N80/N9	N.A.(10)	x: 5.625 m h = 13.7	x: 0 m h = 11.7	x: 2.813 m h = 4.9	x: 2.813 m h = 9.7	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.813 m h = 24.5	**PASSA** **h = 24.5**

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Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	l	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	s t f	
N78/N2	N.A.(10)	x: 7 m h = 28.8	x: 0 m h = 38.0	x: 3.5 m h = 7.6	x: 3.5 m h = 15.0	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.5 m h = 57.8	**PASSA** **h = 57.8**
N80/N3	N.A.(10)	x: 7 m h = 10.6	x: 0 m h = 16.4	x: 3.5 m h = 7.6	x: 3.5 m h = 15.0	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.5 m h = 36.3	**PASSA** **h = 36.3**
N84/N11	N.A.(10)	x: 7.004 m h = 11.4	x: 0 m h = 14.1	x: 3.502 m h = 7.6	x: 3.502 m h = 15.0	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 34.0	**PASSA** **h = 34.0**
N86/N12	N.A.(10)	x: 7.004 m h = 26.2	x: 0 m h = 35.5	x: 3.502 m h = 7.6	x: 3.502 m h = 15.0	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 55.3	**PASSA** **h = 55.3**
N85/N38	N.A.(10)	x: 7.004 m h = 13.2	x: 0 m h = 15.9	x: 3.502 m h = 7.6	x: 3.502 m h = 15.0	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 3.502 m h = 35.8	**PASSA** **h = 35.8**
N84/N4	N.A.(10)	x: 5.63 m h = 11.4	x: 0 m h = 13.7	x: 2.815 m h = 4.9	x: 2.815 m h = 9.7	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 26.5	**PASSA** **h = 26.5**
N86/N5	N.A.(10)	x: 5.63 m h = 26.7	x: 0 m h = 31.4	x: 2.815 m h = 4.9	x: 2.815 m h = 9.7	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 44.3	**PASSA** **h = 44.3**
N85/N28	N.A.(10)	x: 5.63 m h = 12.8	x: 0 m h = 13.9	x: 2.815 m h = 4.9	x: 2.815 m h = 9.7	x: 0 m h = 0.2	x: 0 m h = 0.2	N.A.(2)	N.A.(6)	N.A.(7)	x: 2.815 m h = 26.7	**PASSA** **h = 26.7**
N4/N82	N.A.(10)	x: 6.996 m h = 1.2	x: 0 m h = 0.8	x: 0 m h = 36.6	x: 0 m h = 24.0	x: 0 m h = 0.8	x: 0 m h = 2.2	N.A.(2)	h = 1.5	N.A.(2)	x: 0 m h = 86.9	**PASSA** **h = 86.9**
N82/N3	N.A.(3)	x: 5.621 m h = 0.8	N.A.(4)	x: 0 m h = 38.6	x: 5.621 m h = 22.8	x: 5.621 m h = 0.9	x: 5.621 m h = 3.0	N.A.(2)	h = 0.2	N.A.(2)	x: 5.621 m h = 86.5	**PASSA** **h = 86.5**
N11/N82	N.A.(10)	x: 5.621 m h = 0.1	x: 0 m h = 0.4	x: 5.621 m h = 38.6	x: 0 m h = 22.5	x: 0 m h = 0.9	x: 0 m h = 3.0	N.A.(2)	h = 0.2	N.A.(2)	x: 0 m h = 85.7	**PASSA** **h = 85.7**
N82/N9	N.A.(10)	x: 6.996 m h = 1.3	x: 0 m h = 0.3	x: 6.996 m h = 34.8	x: 6.996 m h = 21.9	x: 6.996 m h = 0.7	x: 6.996 m h = 2.1	N.A.(2)	h = 1.4	N.A.(2)	x: 6.996 m h = 81.4	**PASSA** **h = 81.4**

Notação:
- *l: Limitação do índice de esbeltez*
- *N_t: Resistência à tração*
- *N_c: Resistência à compressão*
- *M_x: Resistência à flexão eixo X*
- *M_y: Resistência à flexão eixo Y*
- *V_x: Resistência ao esforço cortante X*
- *V_y: Resistência ao esforço cortante Y*
- *NM_xM_y: Resistência ao esforço axial e flexão combinados*
- *T: Resistência à torção*
- *NMVT: Resistência ao momento de torção, força axial, momento fletor e cortante*
- *s t f: Resistência a interações de esforços e momento de torção*
- *x: Distância à origem da barra*
- *h: Coeficiente de aproveitamento (%)*
- *N.A.: Não aplicável*
- *M_u: Resistência à flexão eixo U*
- *M_v: Resistência à flexão eixo V*
- *V_u: Resistência ao esforço cortante U*
- *V_v: Resistência ao esforço cortante V*
- *NM_uM_v: Resistência ao esforço axial e flexão combinados*

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Verificações desnecessárias para o tipo de perfil (N.A.):

(1) A verificação não será executada, já que não existe esforço axial de tração.
(2) Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.
(3) A verificação não procede, já que não há força axial de compressão.
(4) A verificação não será executada, já que não existe esforço axial de compressão.
(5) Não há interação entre os dois esforços cortantes nem entre o momento torsor, esforço axial, momentos fletores e esforços cortantes. Portanto, a verificação não é necessária.
(6) A verificação não é necessária, já que não existe momento torsor.
(7) Não há interação entre a esforço axial, momento fletor, esforço cortante e momento torsor. Portanto, a verificação não é necessária.
(8) A verificação não será executada, já que não existe momento fletor.
(9) A verificação não será executada, já que não existe esforço cortante.
(10) A verificação não procede, já que os comprimentos de flambagem por flexão são nulos.

Engº Rafael Agenor dos Santos
Gerente
INEA/DIRRAM/GEROSMA
ID: 4373732-2

Adib José Francisco Junior
Resp. Técnico CREA RJ 152.925/D
HYDRA ENG. E SANEAMENTO LTDA.