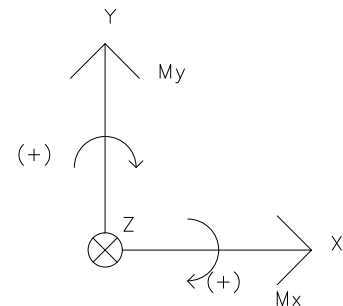


ARQUIVO:OPP_Estruturaal_Solo de Apoio_000.dwg

PLANTA DE CARGA

Grupo A - COMBINAÇÕES SEM VENTO											
Fz Máximo						Fz Mínimo					
Elem.	Fz	Fx	Fy	Mx	My	Elem.	Fz	Fx	Fy	Mx	My
B1	9.51	0.01	0.01	0.04	-0.07	B1	9.50	0.01	0.01	0.04	-0.07
B2	13.87	0.01	-0.00	0.13	0.02	B2	13.86	0.01	-0.00	0.13	0.02
B3	9.47	0.01	-0.00	-0.01	0.00	B3	9.46	0.01	-0.00	-0.01	0.00
B4	10.47	0.01	-0.00	0.04	-0.01	B4	10.47	0.01	-0.00	0.04	-0.01
B5	6.93	-0.01	0.01	-0.04	0.10	B5	6.93	-0.01	0.01	-0.04	0.10
B6	14.36	-0.00	-0.00	-0.26	0.41	B6	14.36	-0.00	-0.00	-0.26	0.41
B7	10.85	-0.02	-0.00	-0.12	-0.41	B7	10.85	-0.02	-0.00	-0.12	-0.41

- 1 – Esforços com valores de cálculo
- 2 – Forças em tf
- 3 – Momentos em tfm
- 4 – Sistema de coordenadas GLOBAL
- 5 – A força X positiva empurra o apoio da esquerda para a direita
- 6 – O momento X positivo gira o apoio em torno do eixo X no sentido horário
- 7 – A força Y positiva empurra em planta o apoio de baixo para cima
- 8 – O momento Y positivo gira o apoio em torno do eixo Y no sentido horário
- 9 – A força Z positiva empurra o apoio de cima para baixo
- 10 – O momento Z positivo gira o apoio em torno do eixo Z no sentido horário



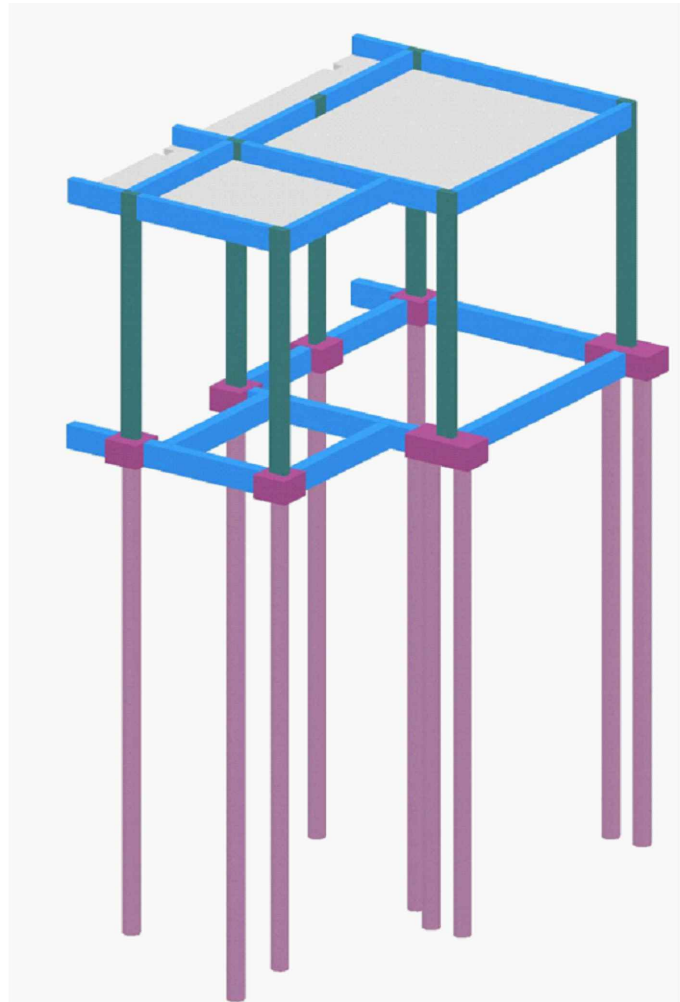
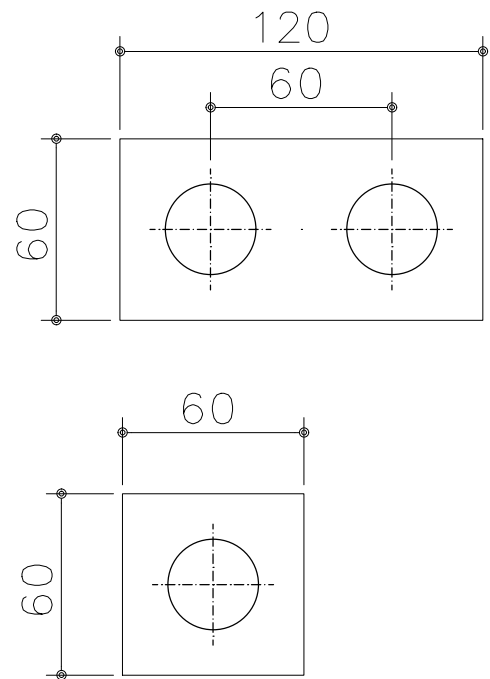
Grupo B – COMBINAÇÕES ONDE VENTO NÃO É AÇÃO VARIÁVEL PRINCIPAL

Fz Máximo						Fz Mínimo						Fy Máximo						Fy Mínimo						My Máximo						My Mínimo					
B1	Fz	Fx	Fy	Mx	My	B1	Fz	Fx	Fy	Mx	My	B1	Fz	Fx	Fy	Mx	My	B1	Fz	Fx	Fy	Mx	My	B1	Fz	Fx	Fy	Mx	My	B1	Fz	Fx	Fy	Mx	My
B1	9.95	0.01	0.24	0.03	-0.07	B1	9.43	0.14	0.01	0.04	-0.04	B1	9.44	0.14	0.01	0.04	-0.04	B1	9.44	0.01	0.24	0.03	-0.07	B1	9.44	0.01	0.24	0.03	-0.07	B1	9.43	0.14	0.01	0.04	-0.04
B2	14.19	0.01	0.23	0.12	0.02	B2	13.61	0.14	-0.00	0.13	0.02	B2	13.61	0.14	-0.00	0.13	0.02	B2	14.18	0.01	0.23	0.12	0.02	B2	13.61	0.14	-0.00	0.13	0.02	B2	13.62	0.14	-0.00	0.13	0.02
B3	9.51	0.15	-0.00	-0.01	0.01	B3	9.43	-0.12	-0.00	-0.01	-0.00	B3	9.51	0.15	-0.00	-0.01	-0.00	B3	9.51	0.01	0.23	-0.07	0.00	B3	9.51	0.01	0.23	-0.07	0.00	B3	9.51	0.15	-0.00	-0.01	0.01
B4	10.83	0.01	0.22	0.03	-0.01	B4	10.16	-0.12	-0.00	0.04	-0.01	B4	10.78	0.15	-0.00	0.04	-0.01	B4	10.78	0.01	0.22	0.03	-0.01	B4	10.16	-0.12	-0.00	0.04	-0.01	B4	10.78	0.15	-0.00	0.04	-0.01
B5	7.31	-0.14	0.01	-0.04	0.09	B5	6.56	-0.12	0.01	-0.04	0.11	B5	7.01	-0.14	0.01	-0.04	0.09	B5	6.56	-0.01	0.24	-0.04	0.10	B5	7.01	-0.14	0.01	-0.04	0.09	B5	6.56	-0.12	0.01	-0.04	0.11
B6	14.36	-0.28	-0.00	-0.25	0.40	B6	14.02	-0.02	0.45	-0.27	0.41	B6	14.34	0.23	-0.01	-0.26	0.42	B6	14.34	0.23	-0.01	-0.26	0.42	B6	14.34	0.23	-0.01	-0.26	0.42	B6	14.34	0.23	-0.01	-0.26	0.42
B7	10.93	0.24	-0.00	-0.12	-0.40	B7	10.48	-0.02	0.44	-0.13	-0.41	B7	10.93	0.24	-0.00	-0.12	-0.40	B7	10.78	-0.28	-0.01	-0.12	-0.42	B7	10.78	-0.28	-0.01	-0.12	-0.42	B7	10.78	-0.28	-0.01	-0.12	-0.42

Grupo C – COMBINAÇÕES ONDE VENTO É AÇÃO VARIÁVEL PRINCIPAL

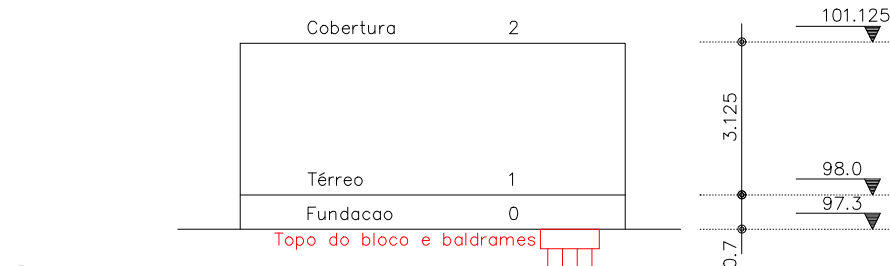
Fz Máximo					Fz Mínimo					Fy Máximo					Fy Mínimo					My Máximo					My Mínimo										
Elem.	Fz	Fx	Fy	Mx	My	Elem.	Fz	Fx	Fy	Mx	My	Elem.	Fz	Fx	Fy	Mx	My	Elem.	Fz	Fx	Fy	Mx	My	Elem.	Fz	Fx	Fy	Mx	My	Elem.	Fz	Fx	Fy	Mx	My
B1	10.15	0.01	0.39	0.03	-0.07	B1	9.29	0.23	0.01	0.04	-0.01	B1	9.30	0.23	0.01	0.04	-0.01	B1	9.34	-0.22	0.01	0.04	-0.13	B1	10.15	0.01	0.39	0.03	-0.07	B1	9.29	0.23	0.01	0.04	-0.01
B2	14.14	0.01	0.38	0.11	0.02	B2	13.18	0.23	-0.00	0.13	0.02	B2	13.18	0.23	-0.00	0.13	0.02	B2	14.14	0.01	0.38	0.11	0.02	B2	13.18	0.23	-0.00	0.13	0.02	B2	13.19	0.23	-0.00	0.13	0.02
B3	9.32	0.23	-0.00	-0.01	0.01	B3	9.19	-0.21	-0.00	-0.01	-0.01	B3	9.32	0.23	-0.00	-0.01	-0.01	B3	9.32	0.23	-0.00	-0.01	-0.01	B3	9.32	0.23	-0.00	-0.01	0.01	B3	9.32	0.23	-0.00	-0.01	-0.01
B4	10.96	0.01	0.37	0.03	-0.01	B4	9.85	-0.21	-0.00	0.04	-0.01	B4	10.96	0.01	0.37	0.03	-0.01	B4	9.85	-0.21	-0.00	0.04	-0.01	B4	10.96	0.01	0.37	0.03	-0.01	B4	10.96	0.01	0.37	0.03	-0.01
B5	7.32	-0.22	0.01	-0.04	0.09	B5	6.17	-0.01	0.39	-0.04	0.10	B5	6.77	0.21	0.01	-0.04	0.11	B5	7.02	-0.22	0.01	-0.04	0.09	B5	6.17	-0.01	0.39	-0.04	0.10	B5	6.17	-0.01	0.39	-0.04	0.11
B6	14.21	-0.45	-0.00	-0.25	0.40	B6	13.61	-0.02	0.76	-0.28	0.42	B6	14.16	0.41	-0.01	-0.26	0.43	B6	14.21	-0.45	-0.00	-0.25	0.40	B6	14.16	0.41	-0.01	-0.26	0.43	B6	14.21	-0.45	-0.00	-0.25	0.40
B7	10.85	0.41	-0.00	-0.12	-0.40	B7	10.11	-0.02	0.74	-0.14	-0.41	B7	10.85	0.41	-0.00	-0.12	-0.40	B7	10.61	-0.45	-0.01	-0.12	-0.43	B7	10.61	-0.45	-0.01	-0.12	-0.43	B7	10.61	-0.45	-0.01	-0.12	-0.43

Medidas dos bloco em cm
h=40



Estacas			
Simbologia	d (cm)	Qnt	Prof. (m)
	30	7	8
	30	2	10

Corte esquemático



Sem escala
Medidas em metros

Piso 2: Cobertura																			
Bloco	3,2	4,2	5	6,3	8	10	12,5	16	20	22	25	32	40	Aço	Concreto	Forma	Isol		
Pilares	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	m3	m2	MPa		
Vigas																			
Lajes																			
Fundações																			
Outras																			
Totais																			

Piso 1: Térreo																		
Bloco	3,2	4,2	5	6,3	8	10	12,5	16	20	22	25	32	40	Aço	Concreto	Forma	Isk	
	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf	kgf		m3	m2	MPa	
Pilares			49			24	155								228	0,22	4,41	25
Vigas																		25
Lajes																		25
Fundações																		25
Outras																		
Total			49			24	155								228	0,22	4,41	