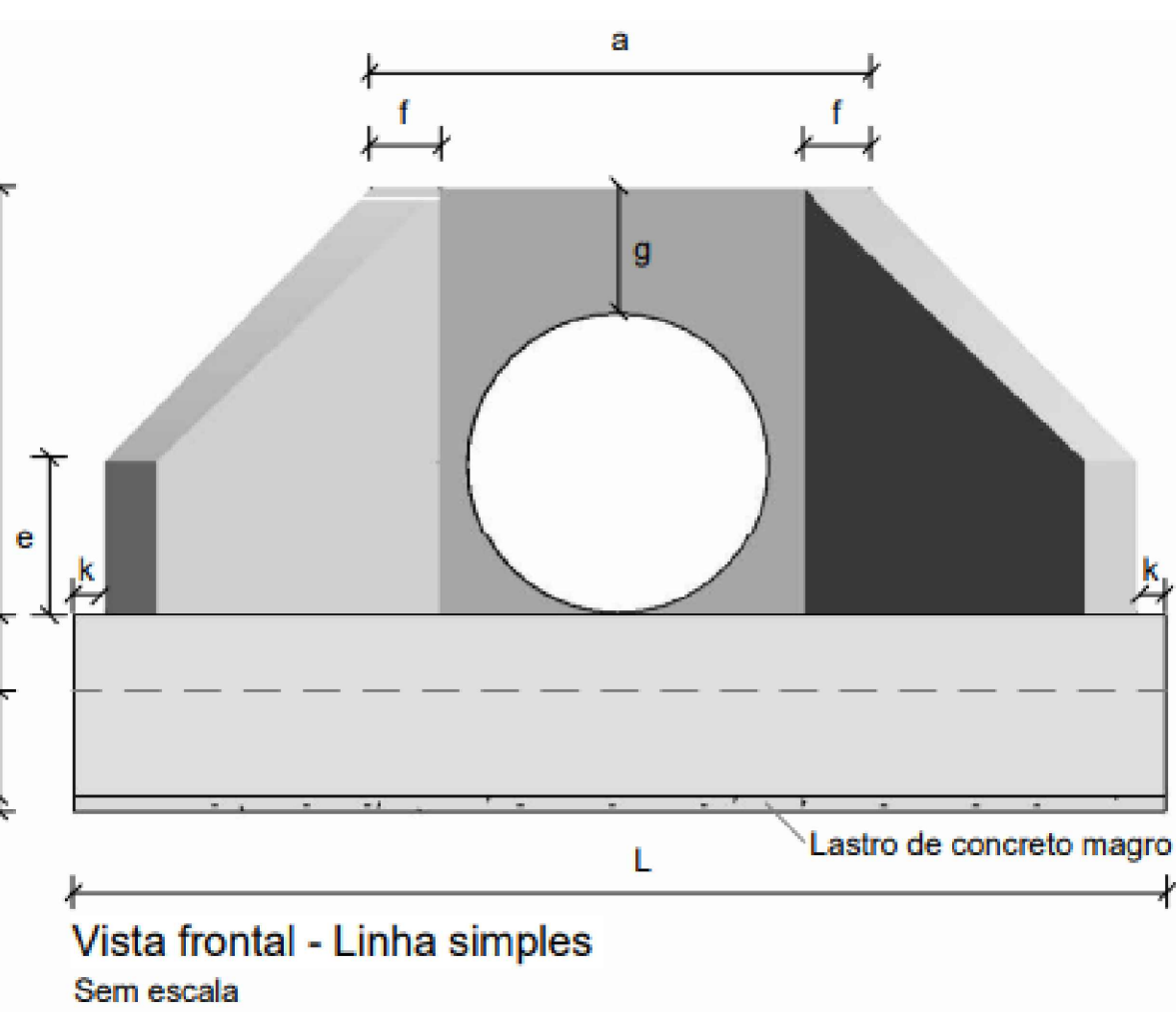


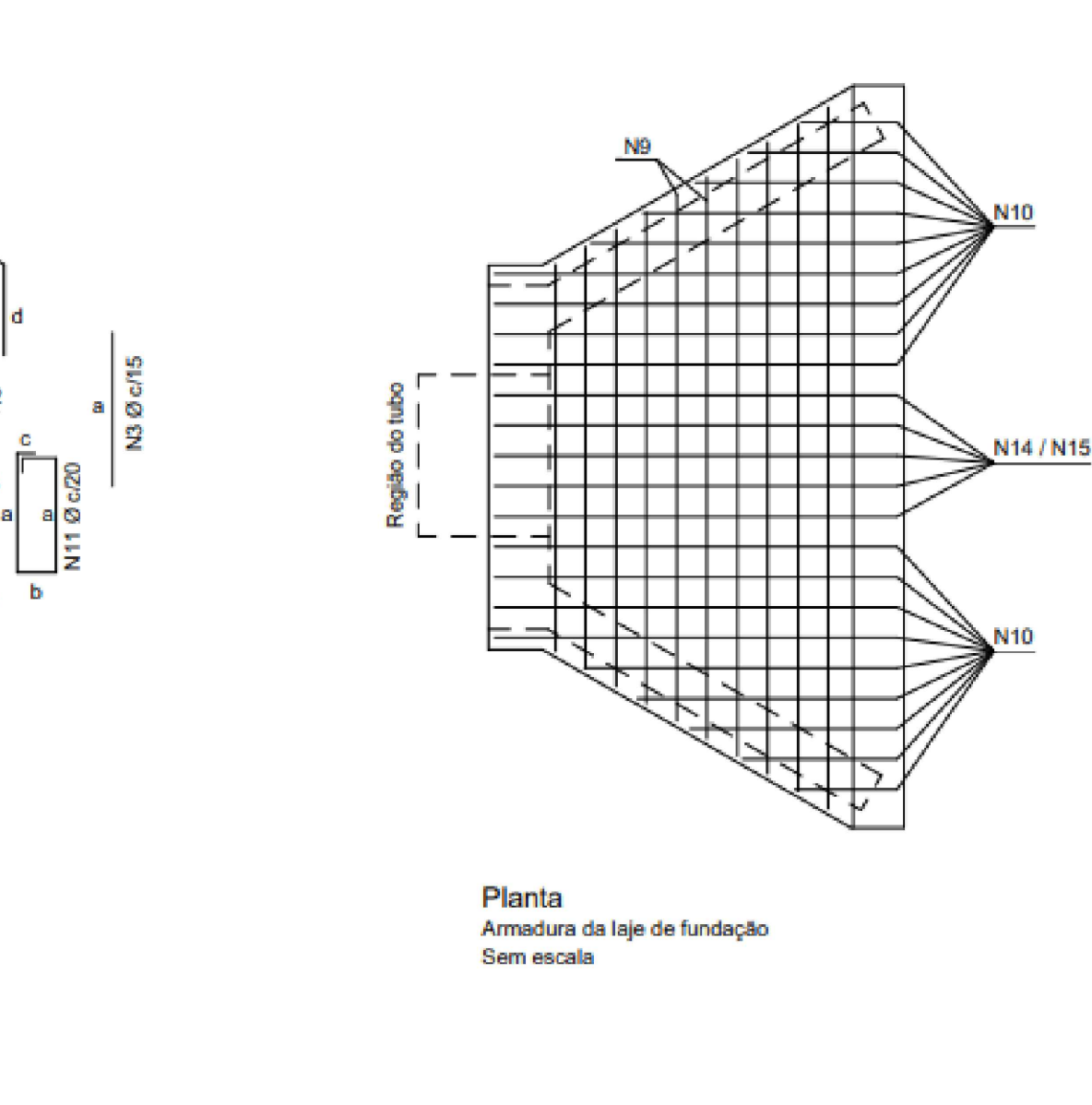


		Consumos médios ³																													
Dispositivo		Adaptável em	α	β	a (cm)	b (cm)	c (cm)	d1 (cm)	d2 (cm)	e (cm)	f (cm)	g (cm)	h (cm)	i (cm)	j (cm)	k (cm)	l (cm)	m (cm)	n (cm)	o (cm)	p (cm)	q (cm)	x (cm)	y (cm)	L (cm)	M (cm)	Concreto magro (m³/unj)	Fôrma (m²/unj)	Concreto fck > 20 MPa (m³/unj)	Aço CA-50 (kg/unj)	
Linha simples	BNAA 01	BSTC 80	0°	30°	110	20	125	25	15	15	28	88	144	136	10	144	20	30	136	20	-	-	80	80	263	155	0,1541	5,8241	1,1335	58,3771	
	BNAA 02	BSTC 80	0°	30°	140	25	145	30	20	15	40	120	167	159	10	167	20	30	159	20	-	-	96	96	316	180	0,2143	8,9188	1,6919	92,6928	
	BNAA 03	BSTC 100	0°	30°	170	30	165	35	25	20	42	142	191	179	10	191	25	40	179	25	-	-	107	107	366	205	0,2841	12,2661	2,9132	160,5759	
	BNAA 04	BSTC 120	0°	30°	200	40	180	40	40	30	24	163	208	196	10	208	25	40	196	25	-	-	121	121	414	230	0,3594	15,5091	3,8939	227,7687	
Linha dupla	BNAA 05	BSTC 150	0°	30°	245	50	260	47	47	35	20	44	194	300	289	10	300	25	40	289	30	-	-	175	175	551	320	0,6368	25,0787	7,2389	412,0149
	BNAA 06	BDTC 100	0°	30°	315	30	165	31	31	30	20	42	142	191	179	10	191	25	40	179	25	30	103	103	511	205	0,4327	15,7433	4,2025	235,7858	
	BNAA 07	BDTC 120	0°	30°	370	40	180	36	36	35	20	43	163	208	196	10	208	25	40	196	25	30	117	117	584	230	0,5539	19,9421	5,6843	358,5260	
	BNAA 08	BDTC 150	0°	30°	440	50	260	39	39	35	20	44	194	300	289	10	300	25	40	289	30	30	166	166	746	320	0,9488	30,4435	10,3139	581,3341	
Linha tripla	BNAA 09	BTTC 100	0°	30°	470	30	165	32	32	35	20	42	142	191	179	10	191	25	40	179	25	30	104	104	666	205	0,5916	19,5545	5,5957	318,0973	
	BNAA 10	BTTC 120	0°	30°	540	40	180	32	32	40	20	43	163	208	196	10	208	25	40	196	25	30	113	113	754	230	0,7494	24,2941	7,5086	478,6310	
	BNAA 11	BTTC 150	0°	30°	650	50	260	38	38	40	20	44	194	300	289	10	300	25	40	289	30	30	165	165	956	320	1,2848	36,6318	13,7233	766,0683	

Quadro de armaduras												
Dispositivo	Adaptável em	Posição	e (mm)	Quantidade (un)	Espaçamento (cm)	Dobra (cm)				Comp. Unidário (cm)	Comp. Total (cm)	Peso Total (kg)
						a	b	c	d			
BNA03	BSTC 100	N1	6,3	18	15	VAR	27	12	14	VAR	2931	7,1810
		N2	6,3	18	15	VAR	34	12	14	VAR	3057	7,4897
		N3	6,3	52	15	VAR	-	-	-	VAR	5236	12,8282
		N4	8,0	42	15	VAR	24	-	VAR	24	4178	10,5031
		N5	8,0	36	15	VAR	24	-	VAR	3534	15,1443	
		N6	8,0	6	12	164	-	-	-	164	984	3,8868
		N7	8,0	6	12	113	20	20	-	153	918	3,6261
		N8	8,0	6	12	89	20	20	-	129	774	3,0573
		N9	8,0	20	15	VAR	19	-	VAR	6112	24,1424	
		N10	8,0	36	15	VAR	24	-	VAR	27,2550	6900	
		N11	6,3	19	20	59	19	9	-	174	3306	8,0907
		N12	10,0	6	-	360	-	-	-	360	2160	13,3272
		N13	6,3	2	-	360	-	-	-	360	720	1,7640
		N14	8,0	5	15	169	19	-	-	207	1035	4,0883
		N15	8,0	5	19	15	24	19	-	1235	4,8783	
		N16	6,3	4	-	231	26	28	45	356	1424	4,0888
N17	8,0	6	12	161	-	-	-	161	966	3,8157		

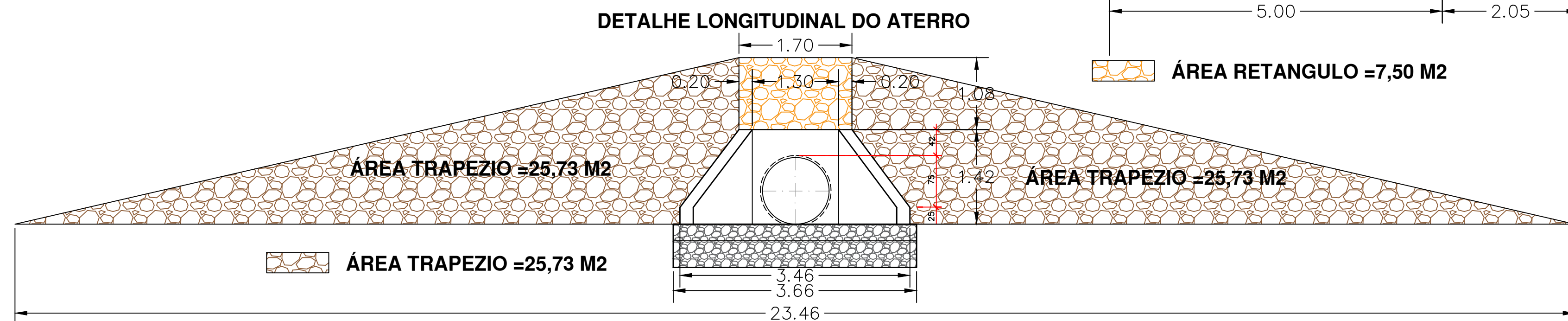
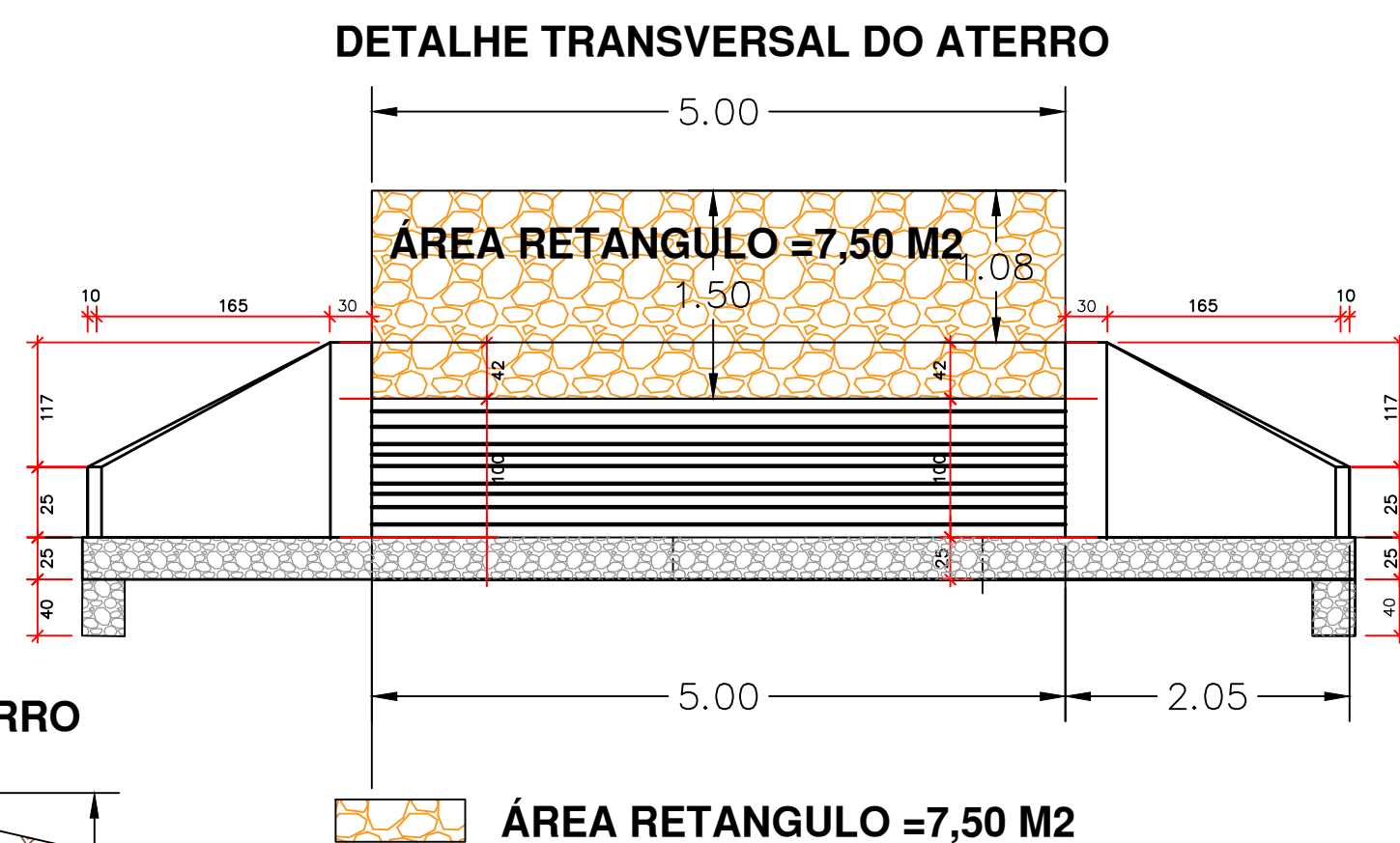
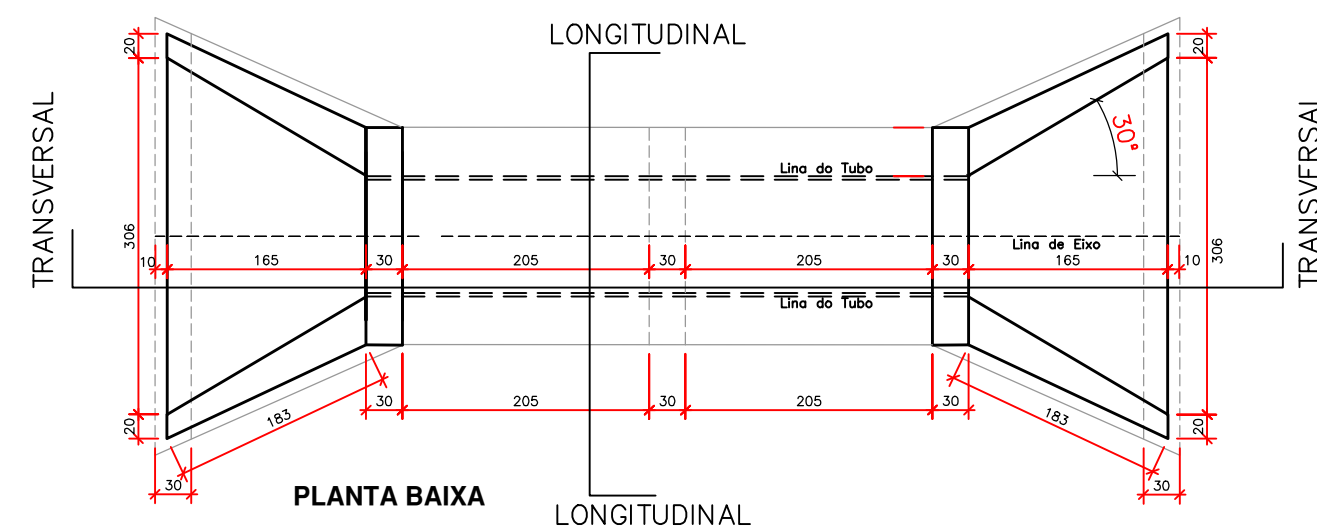
Resumo aço total					
Dispositivo	Adaptável em	Ø (mm)	Comprimento (cm)	Peso (kg/lun)	Peso Total (kg/lun)
BNA4 03	BSTC 100	6,3	16674	40,8514	160,5769
		8,0	26936	106,3973	
		10,0	2160	13,3272	

BUBRO SIMPLES	REGIÃO	COORDENADAS	DIST. MOB E DESM	DIST. JAZIDA
1	SANTO ANT. CACHOEIRÃO	-14.445917, -49.944917	15,10	1,20
2	SANTO ANT. CACHOEIRÃO	-14.448722, -49.953028	14,10	0,30
3	REGIÃO SOBERBO	-14.678789, -49.781792	38,00	4,50
4	ALIRIO CORREIA	-14.722600, -50.263592	46,50	1,80
5	ALIRIO CORREIA	-14.751136, -50.234117	46,60	3,00
6	BONANZA	-14.588356, -50.202967	32,60	7,20
7	BONANZA	-14.595122, -50.187422	31,10	5,30
		MÉDIA	32,00	3,33



Consumos médios do berço de concreto ³															
DN ⁵ (cm)	a (cm)	b (cm)	c (cm)	d (cm)	f (cm)	g (cm)	Linha simples			Linha dupla			Linha tripla		
							Fôrma (m²/m)	Concreto fck ≥ 20 MPa (m³/m)	Compensado resinado (m²/m)	Fôrma (m²/m)	Concreto fck ≥ 20 MPa (m³/m)	Compensado resinado (m²/m)	Fôrma (m²/m)	Concreto fck ≥ 20 MPa (m³/m)	Compensado resinado (m²/m)
60	15	20	35	95	-	-	0,7239	0,2387	0,0119	-	-	-	-	-	-
80	20	25	45	120	250	-	0,9387	0,3874	0,0194	0,9820	0,8197	0,0410	-	-	-
100	25	30	55	145	300	450	1,1573	0,5732	0,0287	1,2201	1,2013	0,0601	1,2802	1,8020	0,0901
120	30	40	70	170	350	525	1,4815	0,8147	0,0407	1,5699	1,6994	0,0850	1,6549	2,5492	0,1275
150	40	45	85	205	415	630	1,8242	1,2418	0,0621	1,9526	2,5260	0,1263	2,0853	3,8528	0,1926

Consumos médios do dente ³						
DN ⁵ (cm)	Linha simples		Linha dupla		Linha tripla	
	Concreto fck ≥ 20 MPa (m³/un)	Aço CA-50 (kg/un)	Concreto fck ≥ 20 MPa (m³/un)	Aço CA-50 (kg/un)	Concreto fck ≥ 20 MPa (m³/un)	Aço CA-50 (kg/un)
60	0,0570	0,7350	-	-	-	-
80	0,0720	0,7350	0,1500	1,4700	-	-
100	0,0870	0,9800	0,1800	1,7150	0,2700	2,4500
120	0,1020	0,9800	0,2100	1,9600	0,3150	2,6950
150	0,1230	1,2250	0,2490	2,2050	0,3780	3,1850



CONVENIO: 950282/2023 CONTRATO DE REPASSE: 1090.311-48/2023 ART : 10 2025 010 9574	CONTEÚDO: .PROJETO BUEIRO .DETALHES	ESCALA	DATA
		INDICADA	ABRIL/25
		FOLHA	PRANCHA:
		A-1	
		REVISÃO	1/2
		00	