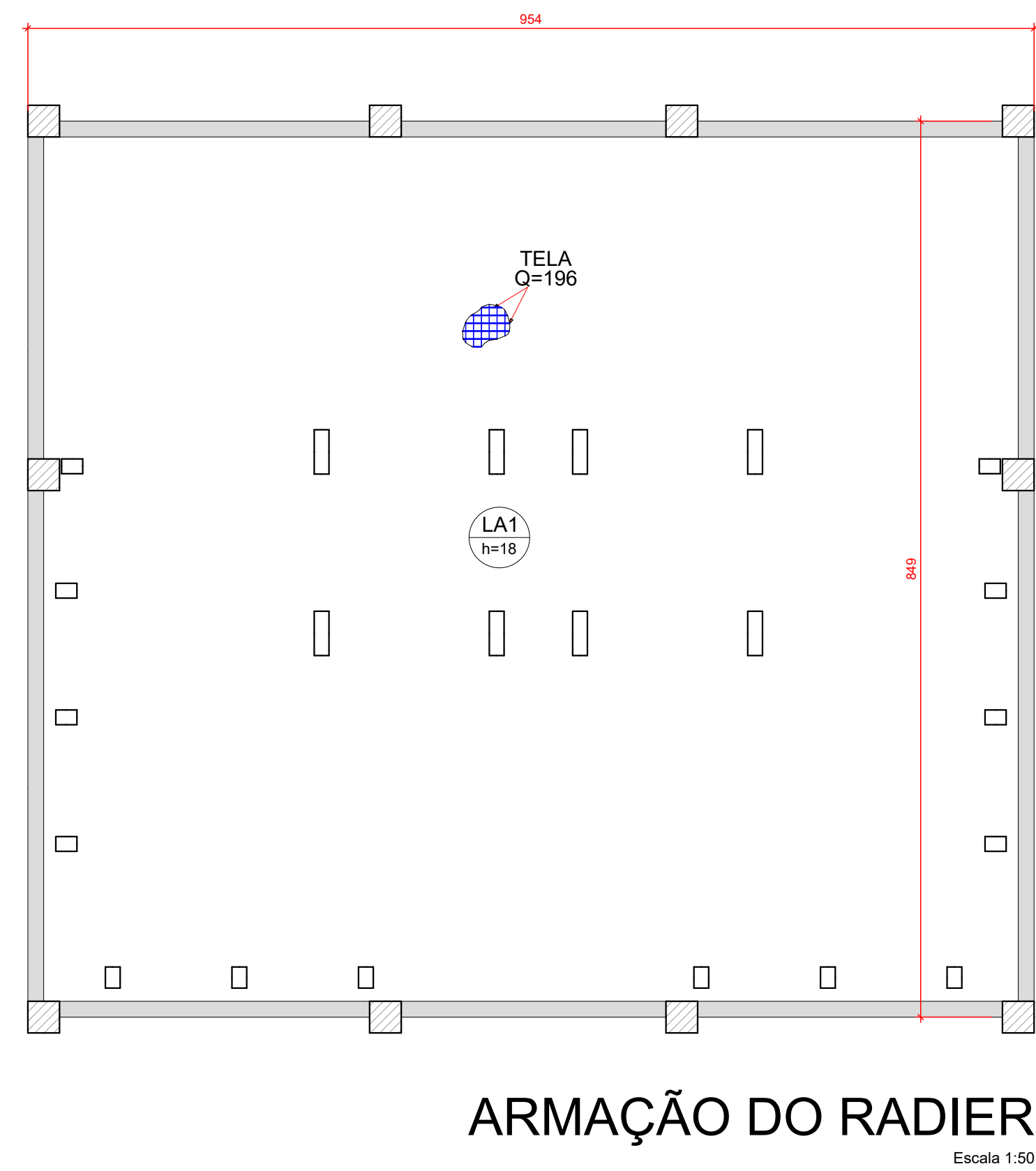
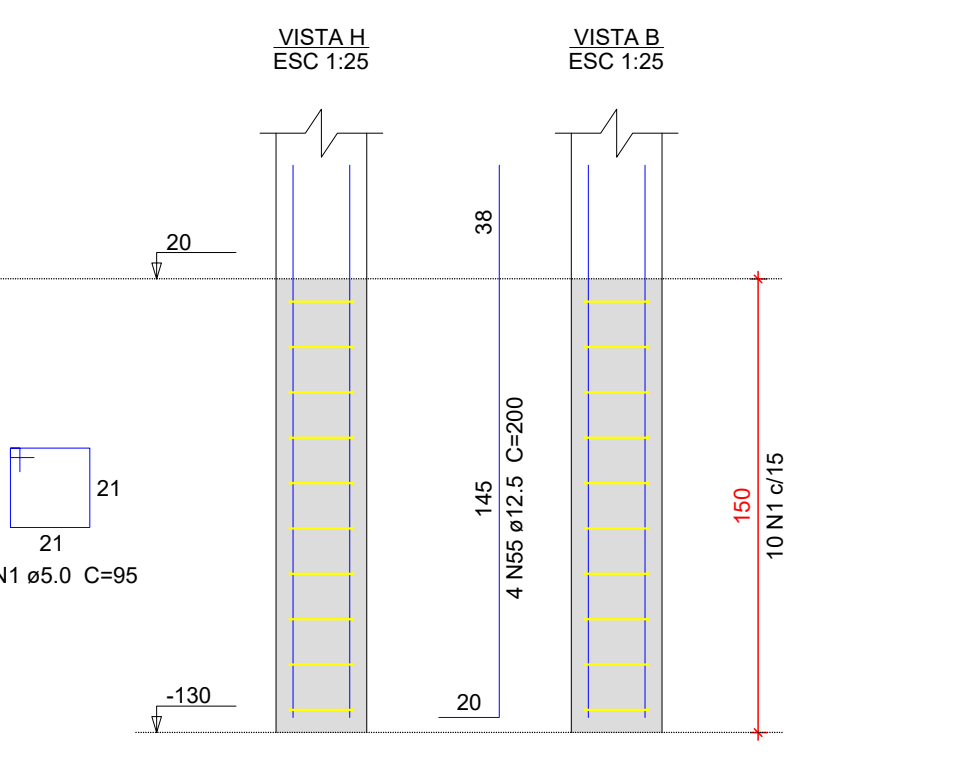
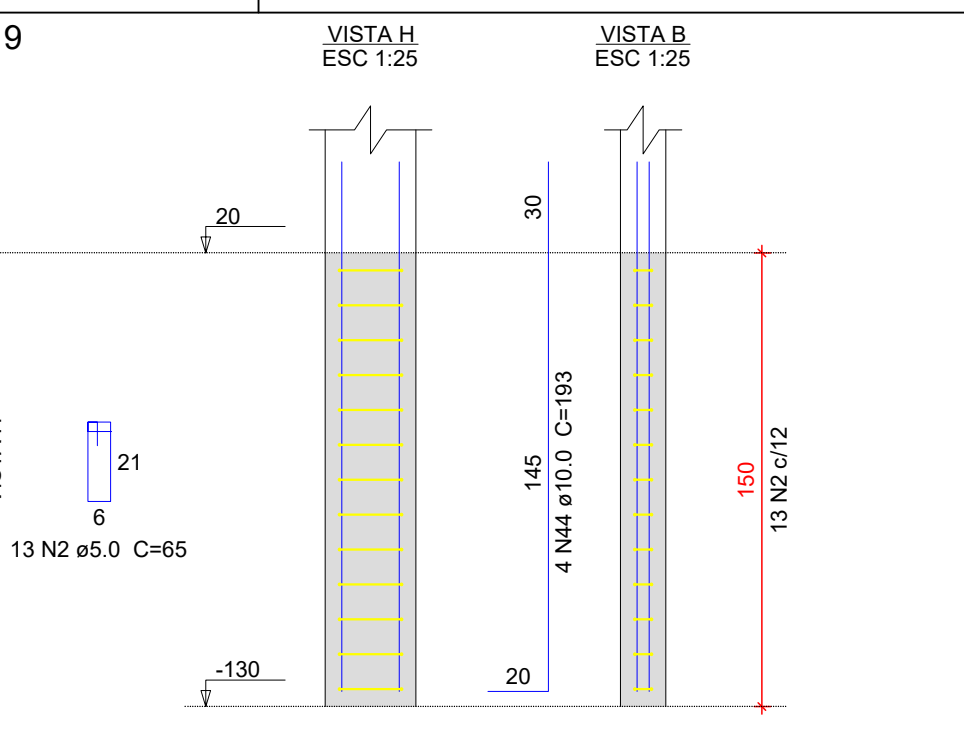
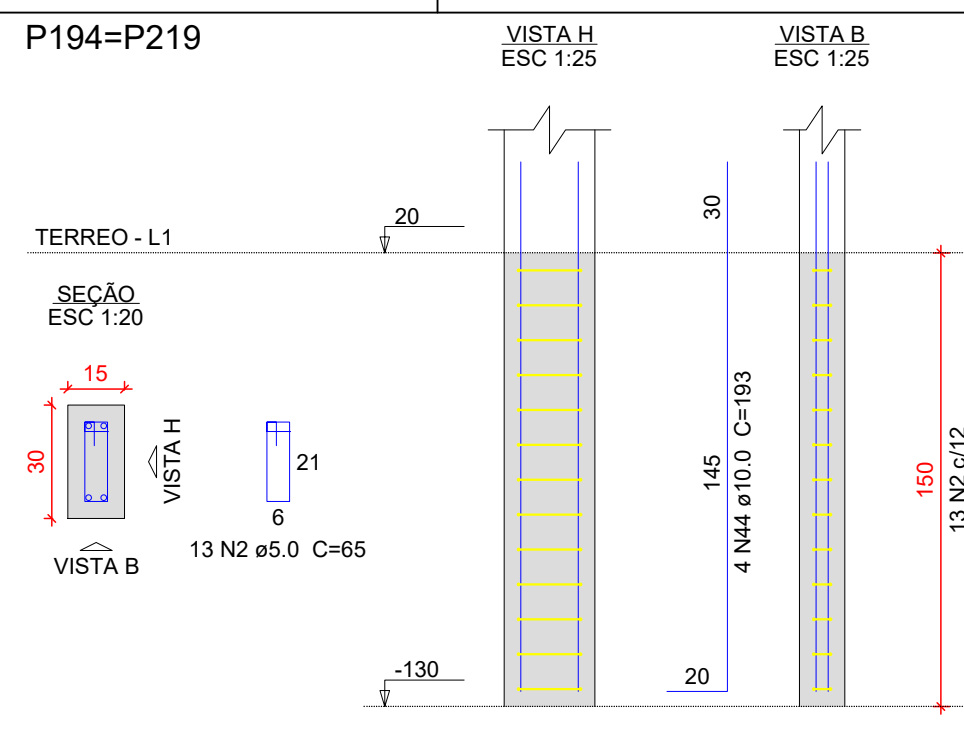
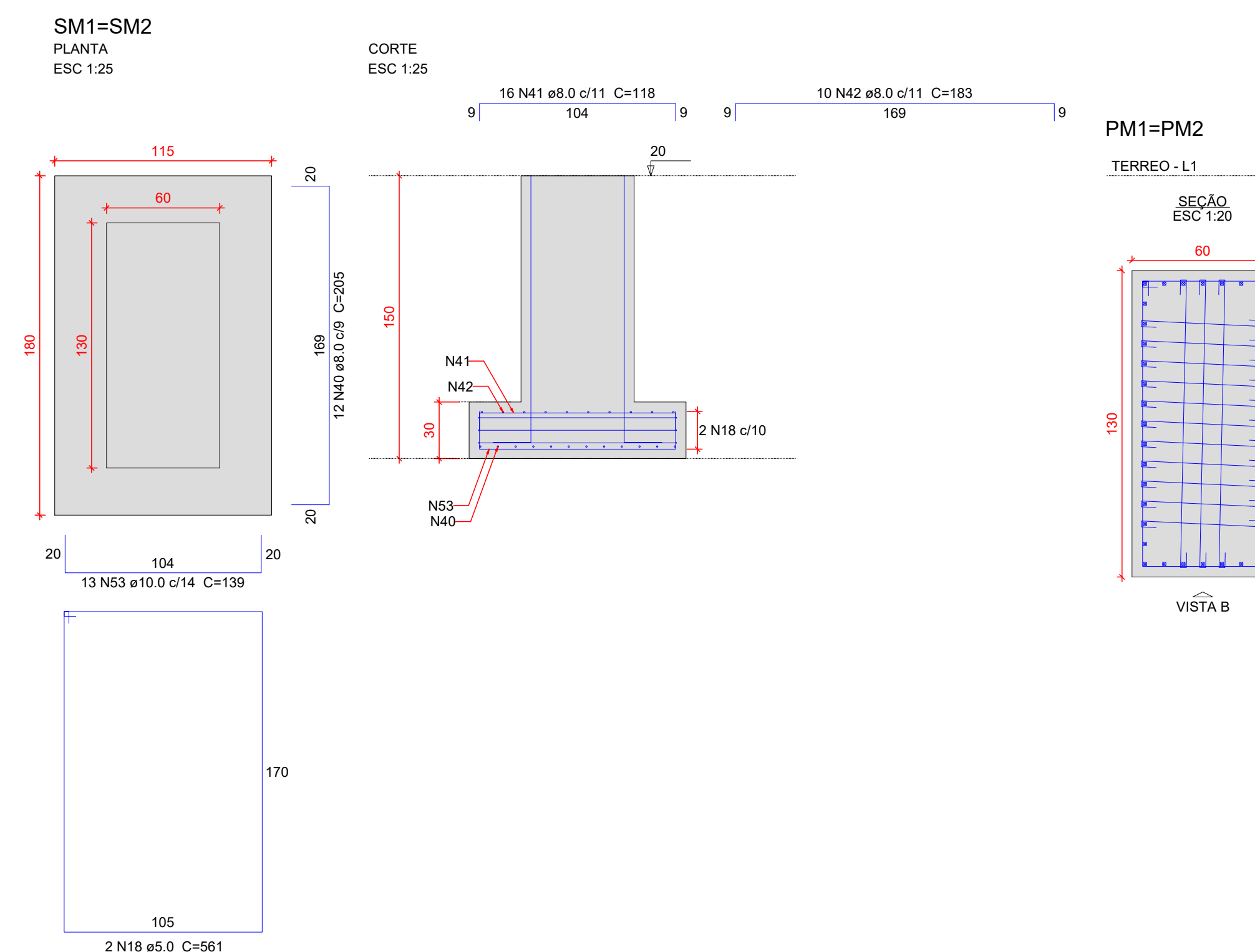




Relação do aço					
APQ	N	DIAM (mm)	Q _{REQ} (cm)	C-UNIT (cm)	C-TOTAL (cm)
CA60	1	5,0	1420	95	134900
	2	5,0	972	95	91800
	3	5,0	20	111	2220
	4	5,0	14	111	1530
	5	5,0	13	75	975
	6	5,0	20	83	1620
	7	5,0	26	83	2150
	8	5,0	156	79	12240
	9	5,0	8	211	1688
	10	5,0	13	105	935
	11	5,0	13	365	4680
	12	5,0	8	421	3348
	13	5,0	8	421	3444
	14	5,0	28	365	10230
CA50	16	5,0	78	136	10608
	17	5,0	286	66	18876
	18	5,0	286	124	35460
	19	5,0	225	96	21600
	20	21	225	96	21600
	21	22	768	106	81408
	22	8,0	434	111	48114
	23	8,0	78	105	8190
	24	8,0	78	101	7878
	25	8,0	191	26	4968
	26	8,0	32	121	3872
	27	8,0	68	116	7888
	28	8,0	20	116	2320
	30	8,0	308	96	29568
	31	8,0	22	116	2552
	32	8,0	22	111	2398
	33	8,0	63	101	6383
	34	8,0	72	101	7212
	35	8,0	193	106	20454
	36	8,0	68	116	7888
	37	8,0	62	80	4960
	38	8,0	40	63	2520
	39	8,0	22	91	2002
	40	8,0	24	202	4820
	41	8,0	32	118	3776
	42	10,0	20	118	2320
	43	10,0	86	95	8120
	44	10,0	250	193	48550
	45	10,0	228	106	24048
	46	10,0	28	105	2920
	47	10,0	28	105	2920
	48	10,0	107	84	9012
	49	10,0	20	123	2460
	50	10,0	11	94	1034
	51	10,0	8	138	1104
	52	10,0	11	103	1133
	53	10,0	9	138	1242
	54	12,5	580	200	116000
	55	12,5	70	124	8680
	56	12,5	8	126	1014
	57	12,5	36	94	3384
	58	12,5	16	119	1904
	60	12,5	26	178	4628
	61	12,5	10	158	1580
	62	12,5	10	158	1580

Resumo do aço			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	3443.6	1494.6
	10.0	1084	735.1
	12.5	1374.4	1456.3
	16.0	66.9	116.1
CA60	5.0	2550.3	432.4
PESO TOTAL (kg)			
CA50	3802.2		
CA60	432.4		
Volume de concreto (C-35) = 84.02 m³			
Área de forma = 472.29 m²			
Tela C-196 = 162 m²			

[illegible][illegible]