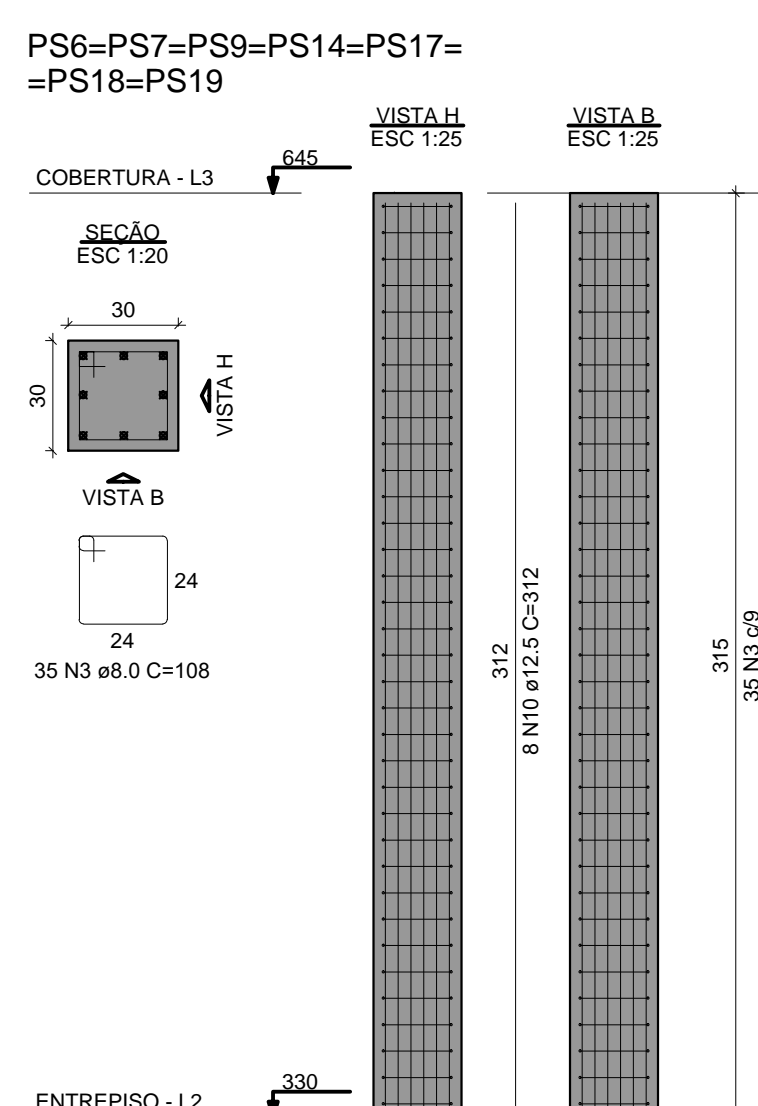


RELAÇÃO DO AÇO					
PS1	PS2	PS3			
PS4	4P/PS5	7P/PS6			
PS10	PS12	PS15			
PS21	PS22				
AÇO	N	DIAM (mm)	QUANT	C. UNIT (cm)	C. TOTAL (cm)
CASO5	1	6,3	435	88	3960
	2	8,0	490	128	5120
	3	8,0	405	108	5360
	4	8,0	75	37	2775
	5	8,0	35	138	4560
	6	8,0	40	148	5920
	7	10,0	6	312	1872
	8	10,0	35	149	5015
	9	10,0	21	99	2079
	10	12,5	134	312	41808
	11	16,0	8	312	2496
RESUMO DO AÇO					
AÇO	DIAM (mm)	C. TOTAL (cm)	PESO = 10% (kg)		
CASO5	6,3	39,6			
	8,0	721,1			

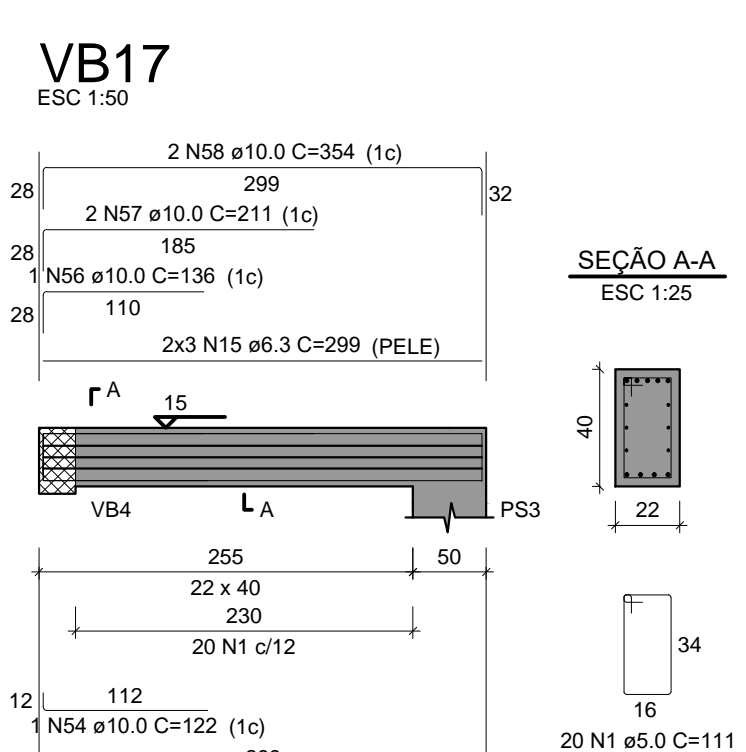
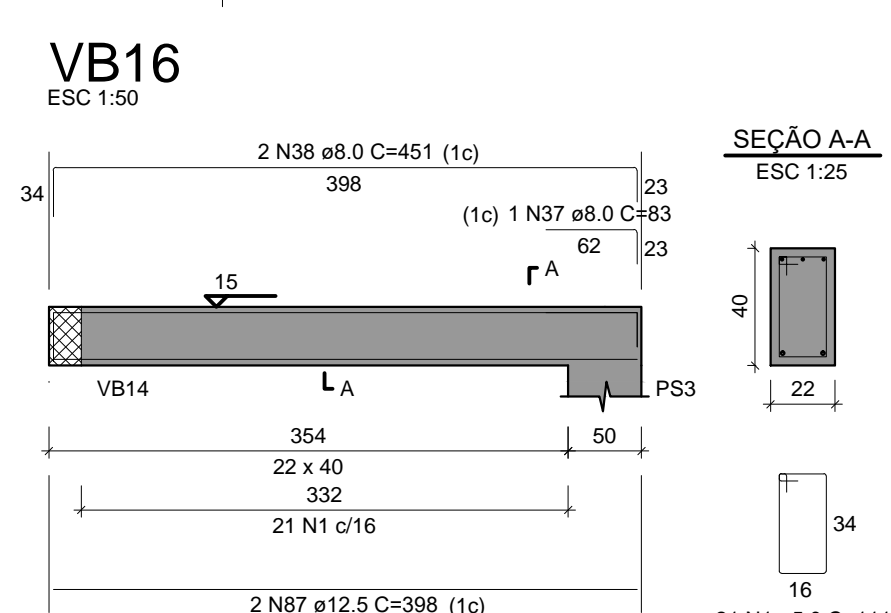
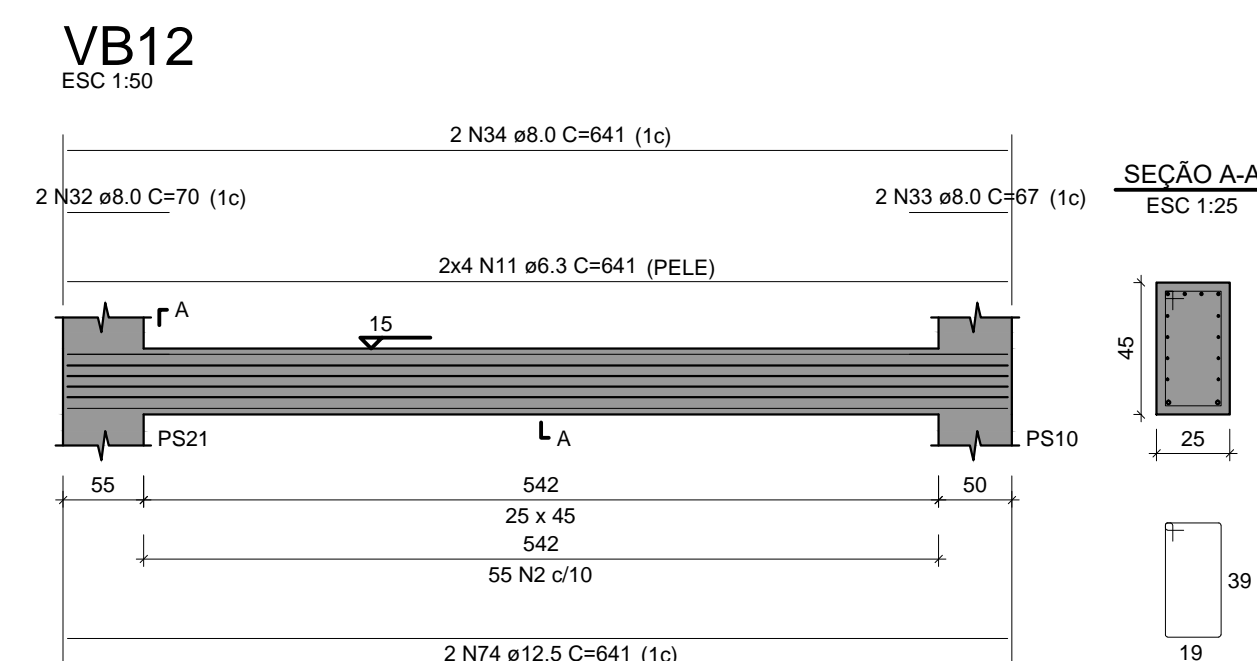
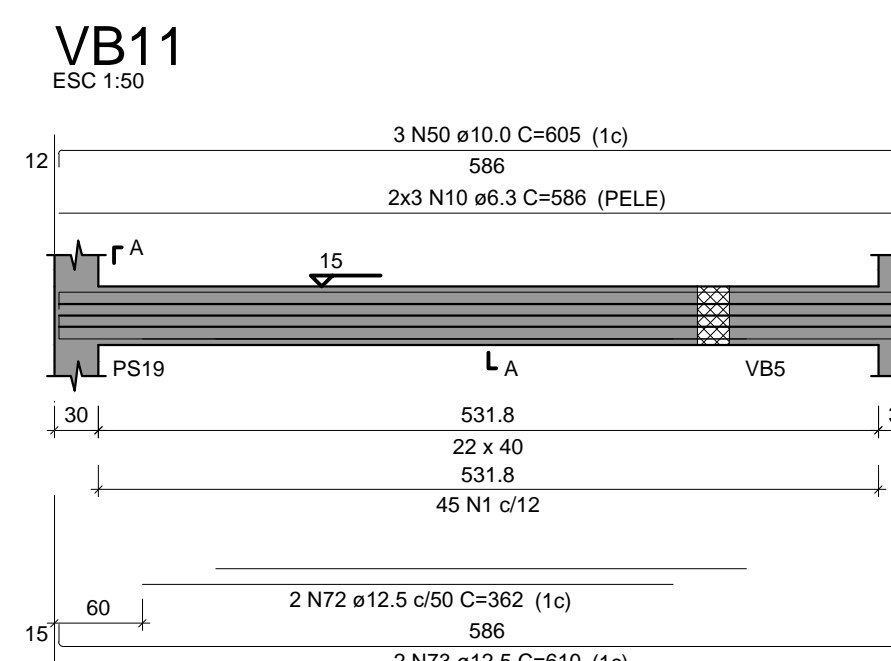
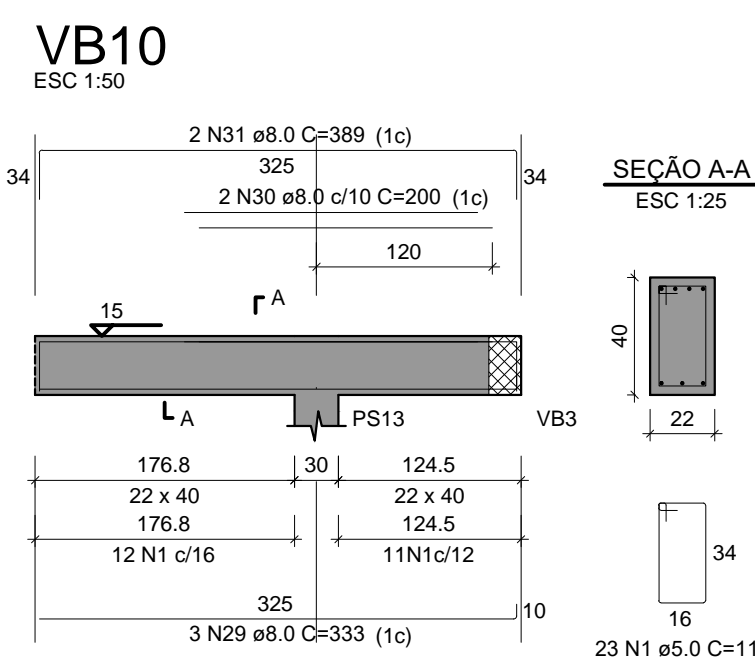
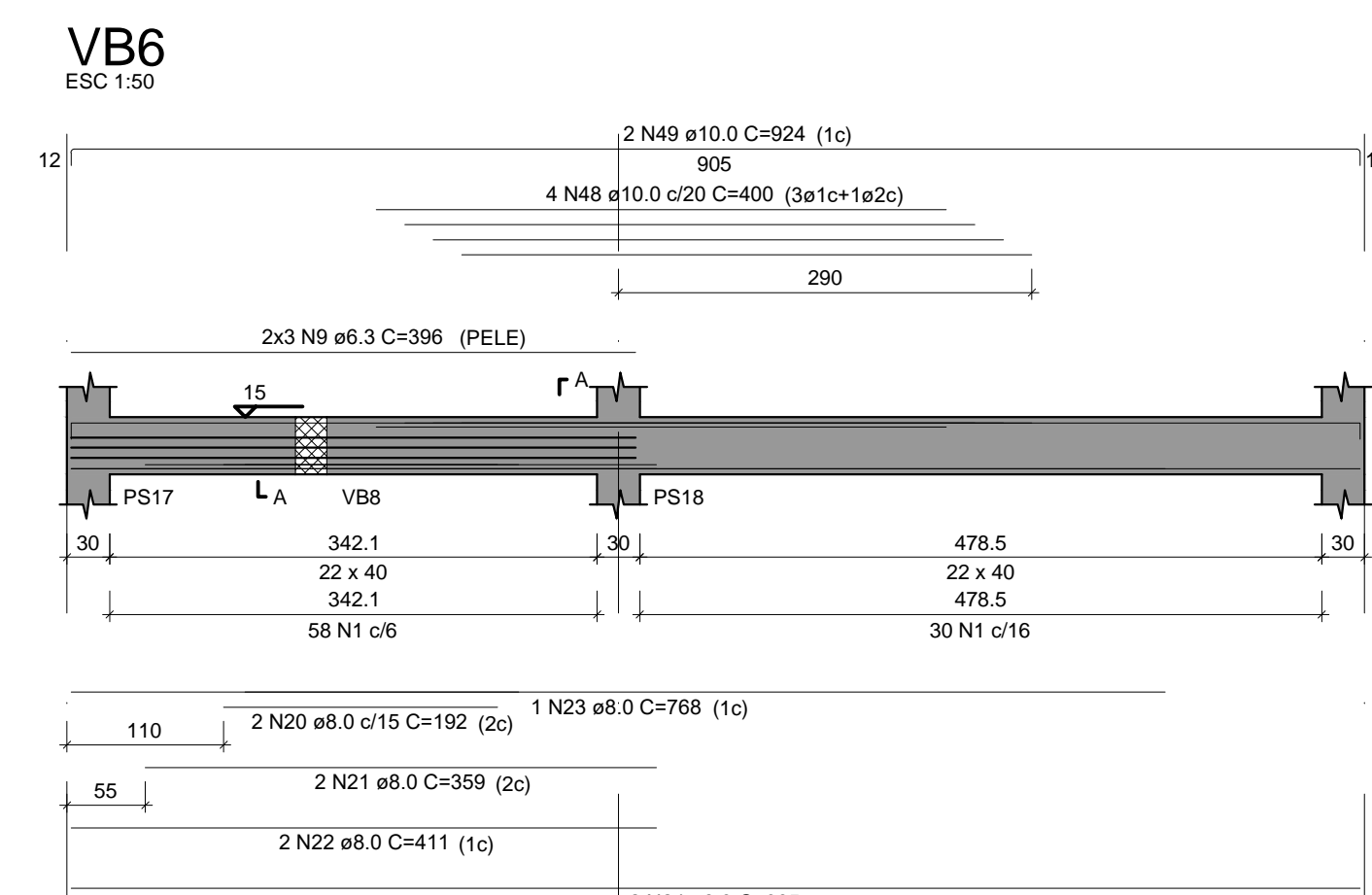
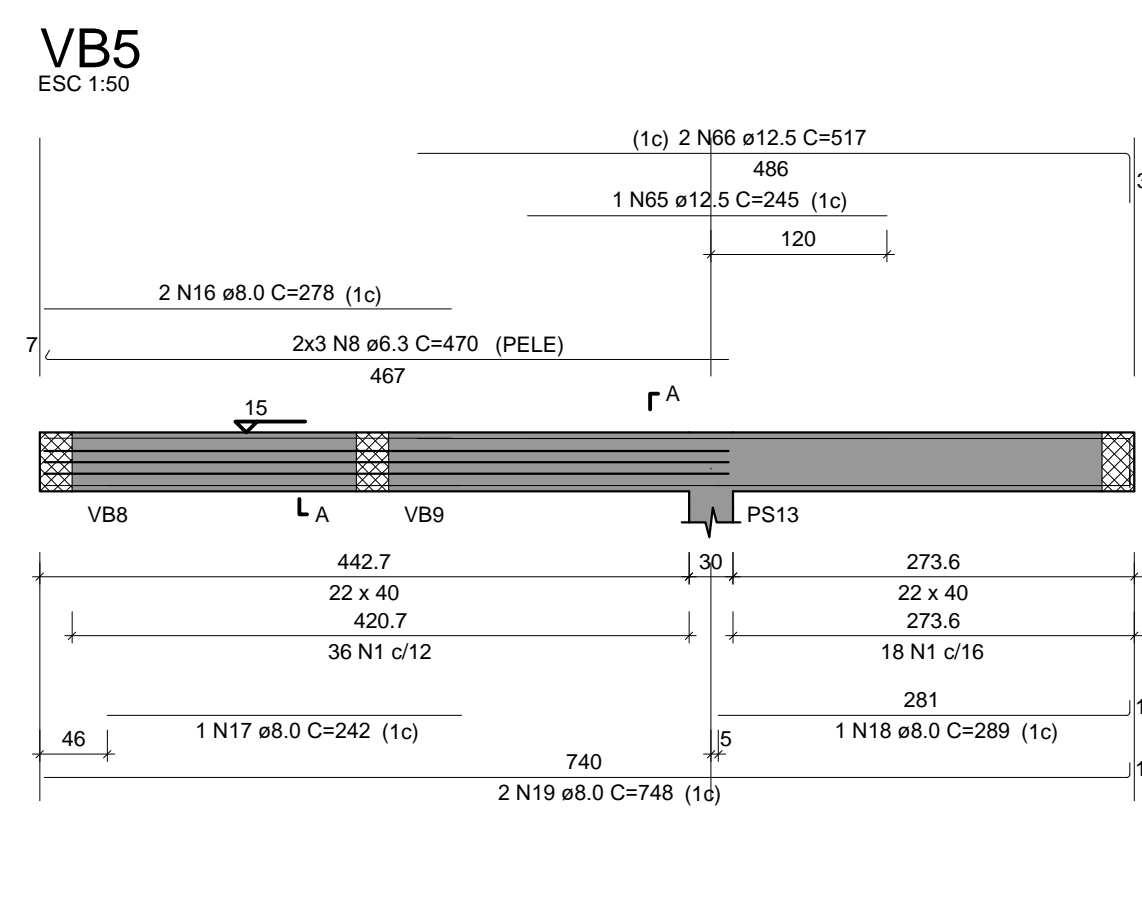
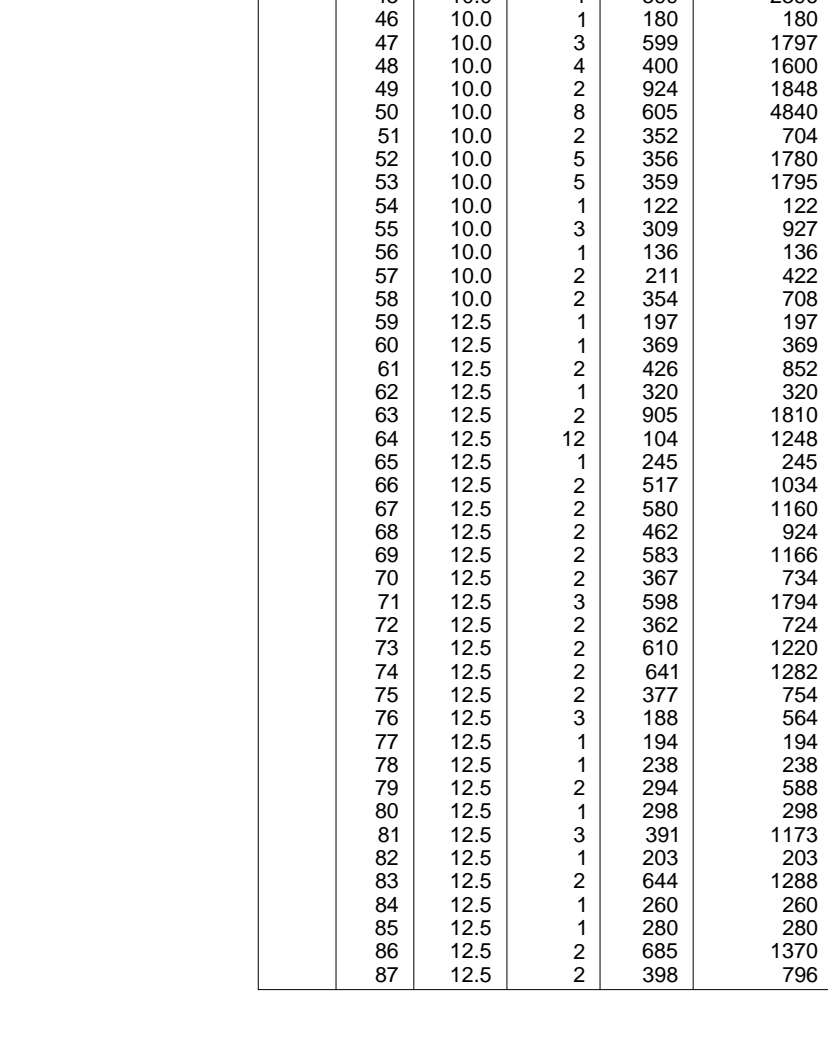
RELAÇÃO DO AÇO						
VB1	VB3	VB4				
VB5	VB6	VB7				
VB3	VB4	VB5	VB10			
VB11	VB12	VB13				
VB14	VB15	VB16				
VB17						
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)	
CA60	1	5.0	533	111	59163	
	2	5.0	207	127	26283	
CA50	3	6.3	6	158	950	
	4	6.3	6	905	5430	
	5	6.3	12	728	8712	
	6	6.3	14	580	8120	
	7	6.3	5	88	440	
	8	6.3	6	470	2820	
	9	6.3	6	386	2376	
	10	6.3	12	586	7032	
	11	6.3	8	841	6688	
	12	6.3	8	377	3016	
13	6.3	8	344	2752		
14	6.3	8	644	5152		
15	6.3	6	259	1754		
16	8.0	2	278	228		
17	8.0	1	242	242		
18	8.0	1	289	289		
19	8.0	2	748	1496		



	16.0	25	43.3
PESO TOTAL (kg)			
CA50	872.2		

Volume de concreto (C-30) = 6.11 m³
 Área de forma = 78.75 m²

21	8.0	2	333	999
22	8.0	2	411	822
23	8.0	2	768	768
24	8.0	2	905	1810
25	8.0	2	58	116
26	8.0	2	596	1192
27	8.0	2	583	1166
28	8.0	1	57	67
29	8.0	3	333	999
30	8.0	2	200	400
31	8.0	2	389	778
32	8.0	2	70	140
33	8.0	4	167	268
34	8.0	2	641	1282
35	8.0	2	62	124
36	8.0	2	377	754
37	8.0	1	83	83
38	8.0	2	451	902
39	10.0	2	158	316
40	10.0	2	168	336



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	448.6	120.8
	8.0	153.5	66.6
	10.0	221.3	150.1
	12.5	230.8	244.6
CA60	5.0	854.5	144.9
PESO TOTAL (kg)			
CA50	582.1		
CA60	144.9		

VOLUME de concreto (C-30) = 7,25 m³
 Área de forma = 80,87 m²