



Elemento	Pos	Diam	Q	Esquma (cm)	Comp. Total (cm)	CA-50 (kg)	CA-60 (kg)		
P29	1	Ø10	4	200	800	5.4			
	2	Ø10	2	220	440	2.7			
	3	Ø6.3	76	85	6460	15.8			
	4	Ø10	4	465	1860	11.5			
	5	Ø10	4	352	1408	8.7			
	6	Ø10	6	130	810	4.4			
	7	Ø6.3	3	77	231	0.6			
Total+10%								54.0	
P30	1	Ø10	4	200	800	5.4			
	2	Ø10	2	220	440	2.7			
	3	Ø6.3	76	85	6460	15.8			
	4	Ø10	4	465	1860	11.5			
	5	Ø10	4	352	1408	8.7			
	6	Ø10	6	130	810	4.4			
	7	Ø6.3	3	77	231	0.6			
Total+10%								54.7	
P31	1	Ø12.5	6	200	1200	11.6			
	2	Ø6.3	67	95	6365	16.6			
	3	Ø6.3	67	21	1407	3.4			
	4	Ø12.5	6	465	2790	26.9			
	5	Ø10	6	352	2112	13.0			
	6	Ø12.5	6	130	810	6.1			
	7	Ø6.3	3	85	255	0.6			
Total+10%								84.9	
P32	1	Ø10	6	190	1140	7.0			
	2	Ø6.3	76	95	7220	17.7			
	3	Ø6.3	76	21	1596	3.9			
	4	Ø10	6	465	2790	17.2			
	5	Ø10	6	352	2112	13.0			
	6	Ø10	6	90	540	3.3			
	7	Ø6.3	3	87	261	0.6			
Total+10%								68.0	
P33	1	Ø10	6	190	1140	7.0			
	2	Ø6.3	76	105	7980	19.5			
	3	Ø6.3	76	26	1976	4.8			
	4	Ø10	6	465	2790	17.2			
	5	Ø10	6	352	2112	13.0			
	6	Ø10	6	105	630	3.9			
	7	Ø6.3	3	97	291	0.7			
Total+10%								72.7	
P34	1	Ø10	6	190	1140	7.0			
	2	Ø6.3	76	105	7980	19.5			
	3	Ø6.3	76	26	1976	4.8			
	4	Ø10	6	465	2790	17.2			
	5	Ø10	6	352	2112	13.0			
	6	Ø10	6	95	570	3.5			
	7	Ø6.3	3	97	291	0.7			
Total+10%								72.3	
						Ø6.3	137.0	0.0	
						Ø10	201.5	0.0	
						Ø12.5	49.1	0.0	
						Total	407.6	0.0	

Resumo Aço Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø6.3	2553.1	686	
Ø10	1612.0	1093	
Ø12.5	285.6	303	
Ø16	38.8	67	2151

Pilares que nascem em Terreno e chegam em Cobertura  
 Concreto: C35, em geral  
 Aço das barras: CA-50 e CA-60  
 Aço dos estribos: CA-50 e CA-60