



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1	CA60	1	5,0	69	82	5658
	CA50	2	8,0	2	1095	2190
V2	CA50	3	8,0	2	1137	2274
	CA60	1	5,0	15	82	1230
V3	CA50	2	8,0	2	265	530
	CA50	3	8,0	2	307	614
V4	CA60	1	5,0	15	82	1230
	CA50	2	8,0	2	265	530
V5	CA50	3	8,0	2	307	614
	CA60	1	5,0	16	82	1312
V6	CA50	2	5,0	4	265	1060
	CA60	1	5,0	46	82	3772
V7	CA50	2	5,0	17	102	1734
	CA50	3	8,0	2	728	1456
V8	CA50	4	8,0	2	383	766
	CA50	5	8,0	1	155	155
V9	CA50	6	8,0	2	1145	2290
	CA60	1	5,0	21	82	1722
V10	CA50	2	8,0	2	345	690
	CA50	3	8,0	2	387	774
V11	CA60	1	5,0	56	102	5712
	CA50	2	6,3	2	123	246
V12	CA50	3	10,0	2	1085	2170
	CA50	4	10,0	2	215	430
V13	CA50	5	10,0	2	1098	2196
	CA60	6	10,0	2	216	432
V14	CA50	1	5,0	35	102	3570
	CA50	2	6,3	1	123	123
V15	CA50	3	10,0	2	774	1548
	CA50	4	10,0	2	778	1556
V16	CA60	1	5,0	56	102	5712
	CA50	2	6,3	2	123	246
V17	CA50	3	8,0	1	175	175
	CA50	4	8,0	2	1104	2208
V18	CA50	5	8,0	2	1234	2468
	CA50	6	10,0	2	1085	2170
V19	CA50	7	10,0	2	216	432

Resumo do acordo

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	6.2	1.7
	8.0	167.5	72.7
	10.0	109.4	74.2
CA60	5.0	316.6	53.7
PESO TOTAL (kg)			
CA50	148.5		
CA60	53.7		

Volume de concreto (C-20) = 3.46 m<sup>3</sup>  
Área de forma = 55.97 m<sup>2</sup>

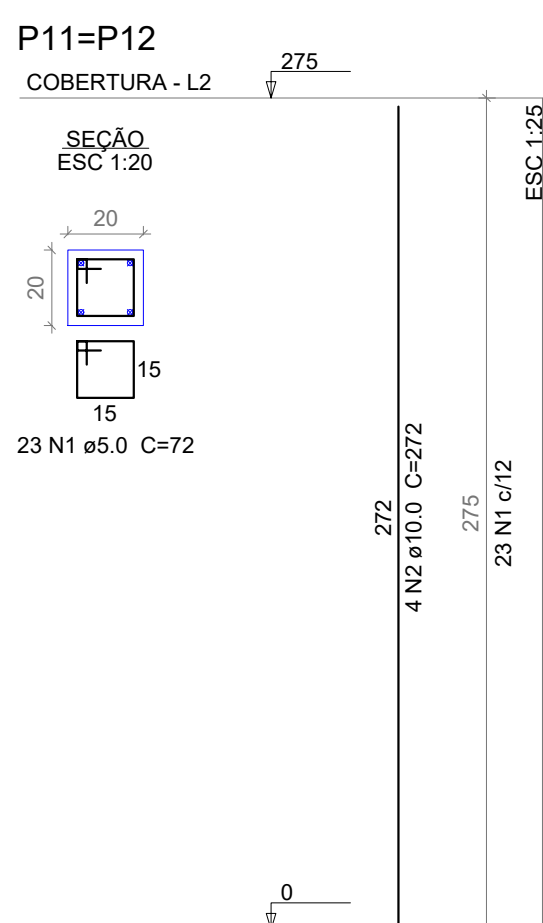
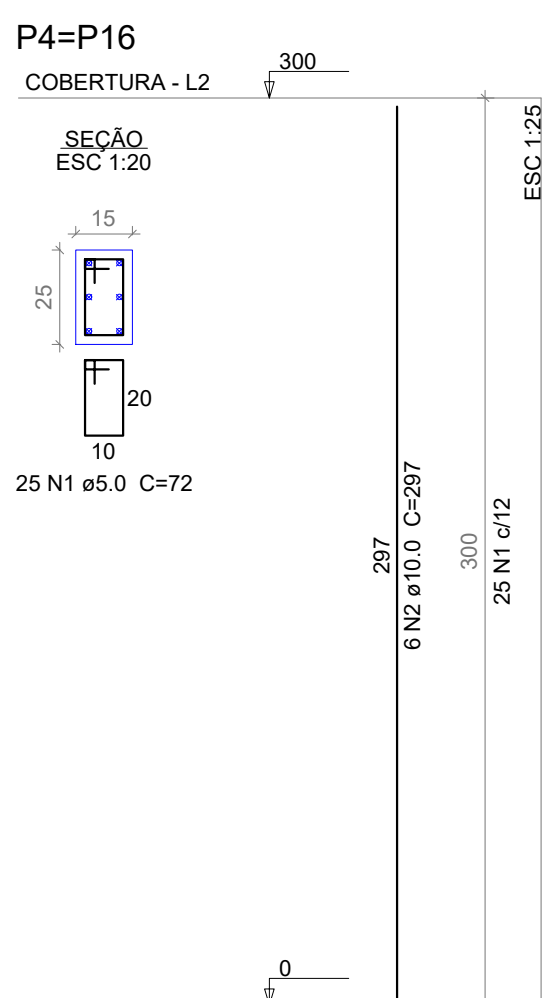
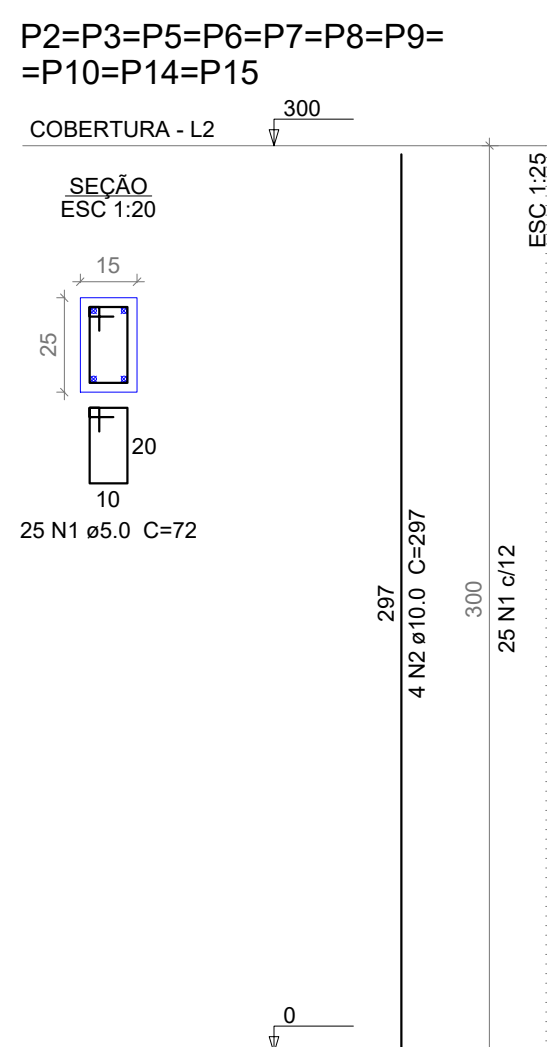
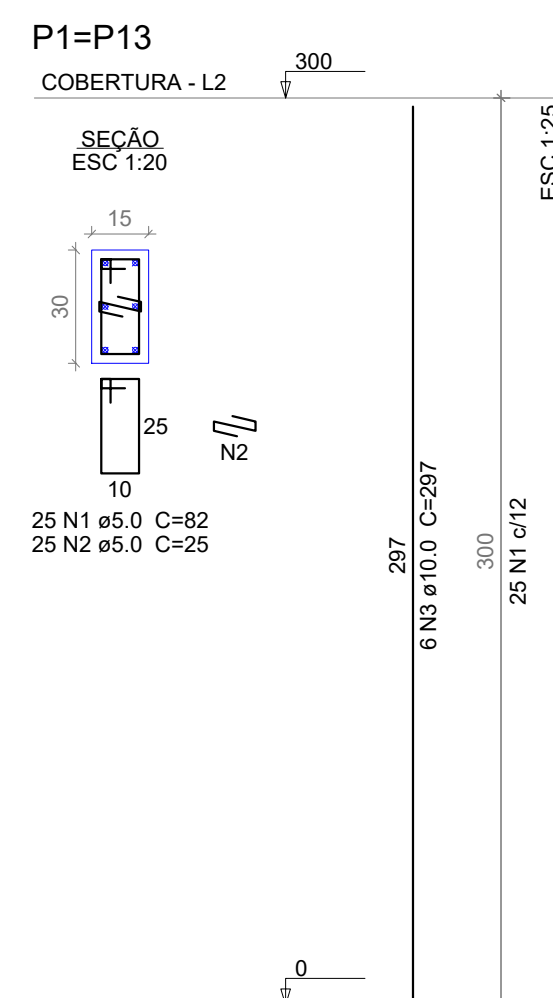
Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xP1	CA60	1	5,0	50	82	4100
	CA60	2	5,0	50	25	1250
	CA50	3	10,0	12	297	3564
10xP2	CA60	1	5,0	250	72	18000
	CA50	2	10,0	40	297	11880
2xP4	CA60	1	5,0	50	72	3600
	CA50	2	10,0	12	297	3564
2xP11	CA60	1	5,0	46	72	3312
	CA50	2	10,0	8	272	2176

## Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	211.9	143.7
CA60	5.0	302.7	51.3
PESO TOTAL (kg)			
CA50	143.7		
CA60	51.3		

Volume de concreto (C-20) = 1.84 m<sup>3</sup>  
Área de forma = 38.6 m<sup>2</sup>



## PROJETO ESTRUTURAL

Obra:	<p><b>CENTRO DE MÚLTIPLO USO</b></p> <p>Campos e Oliveira, s/n - Ipuçu/SC</p>	Data:	03/2024
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	<p>Escala:</p> <p>Indicada</p>
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Resp. Técnico:	Indiamara Aline Vizolli - Engenharia Civil CREA/SC 136607-4	Área:	142,50 m <sup>2</sup>
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Município: Ipuaçu - SC

<p>Especificação:</p> <p>Detalhamento Pilares</p> <p>Detalhamento Vigas Cobertura</p>	<p>Prancha:</p> <p>EST-04</p>
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