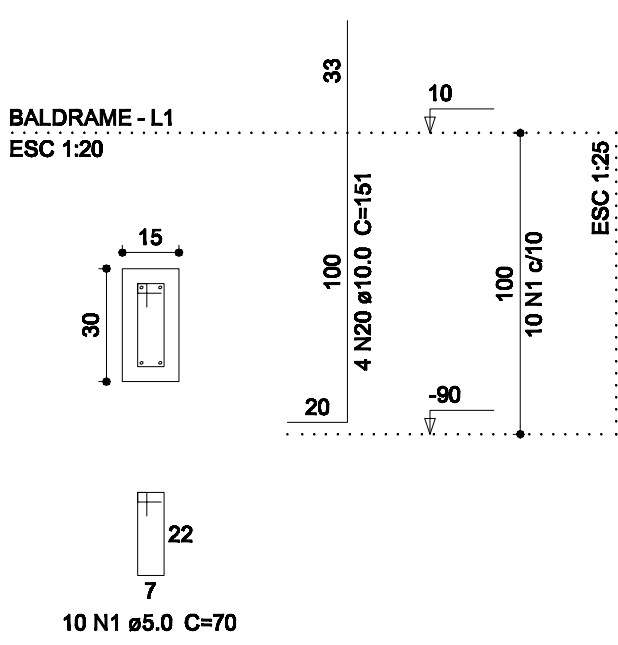
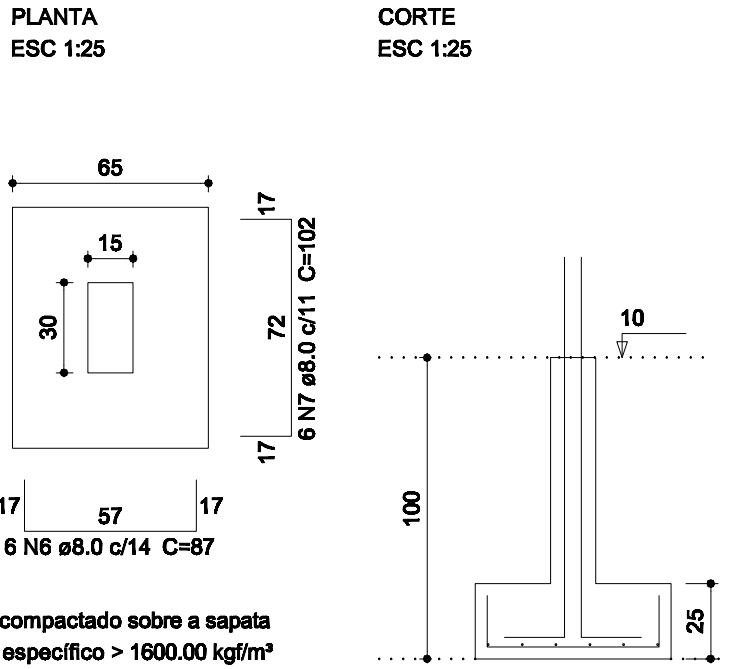


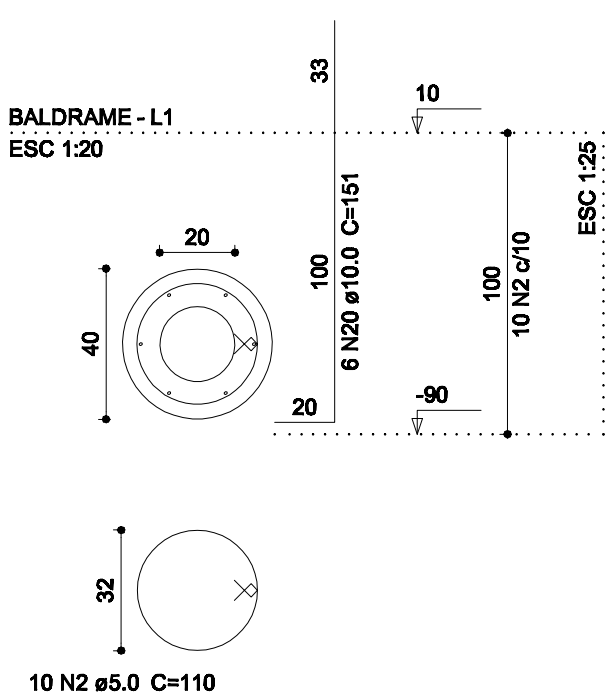
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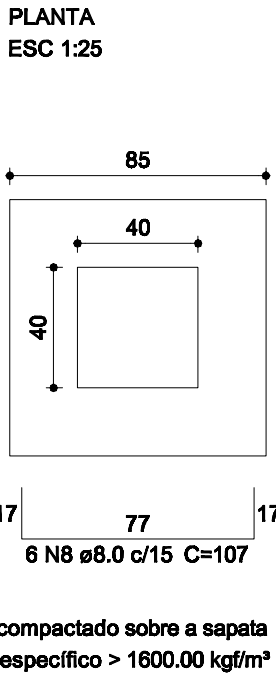
S18=S24



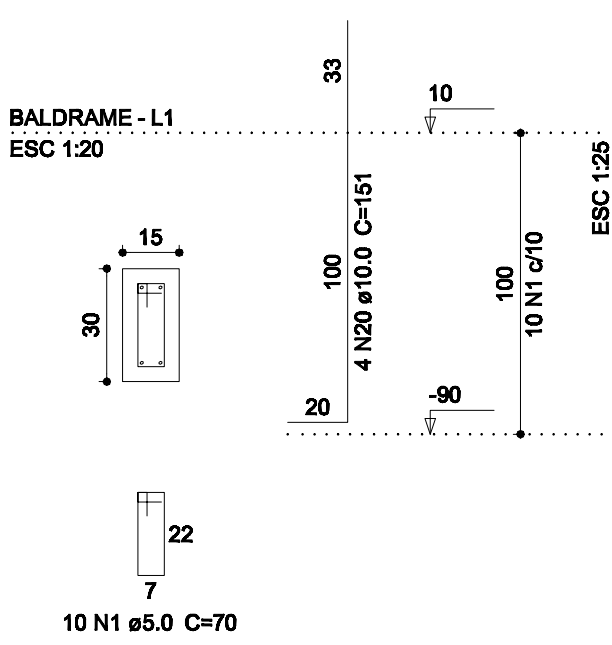
P6=P10



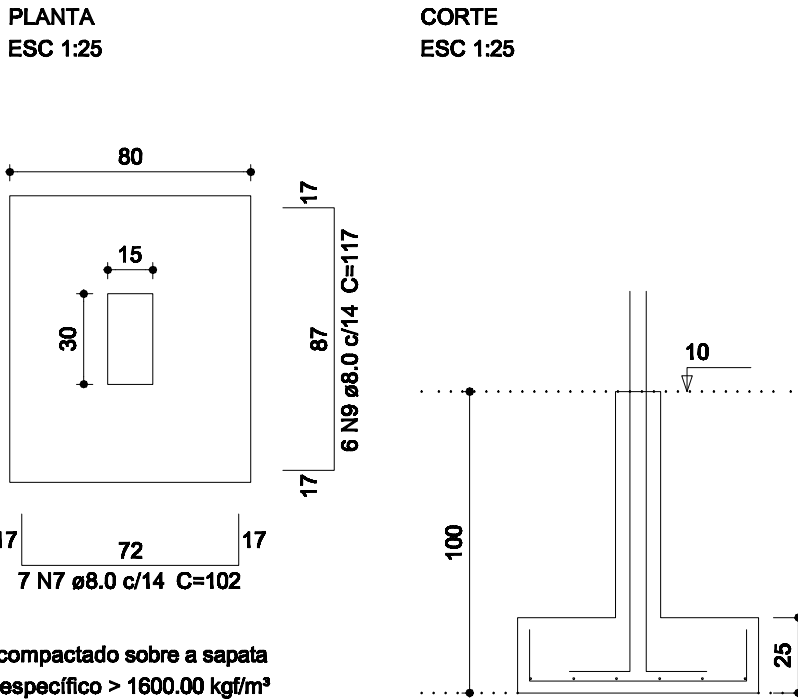
S6=S10



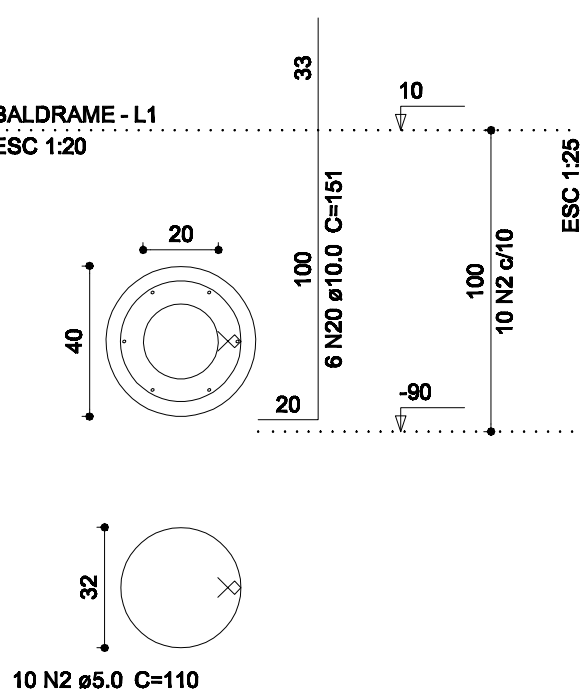
P11=P16=P17=P20=P23



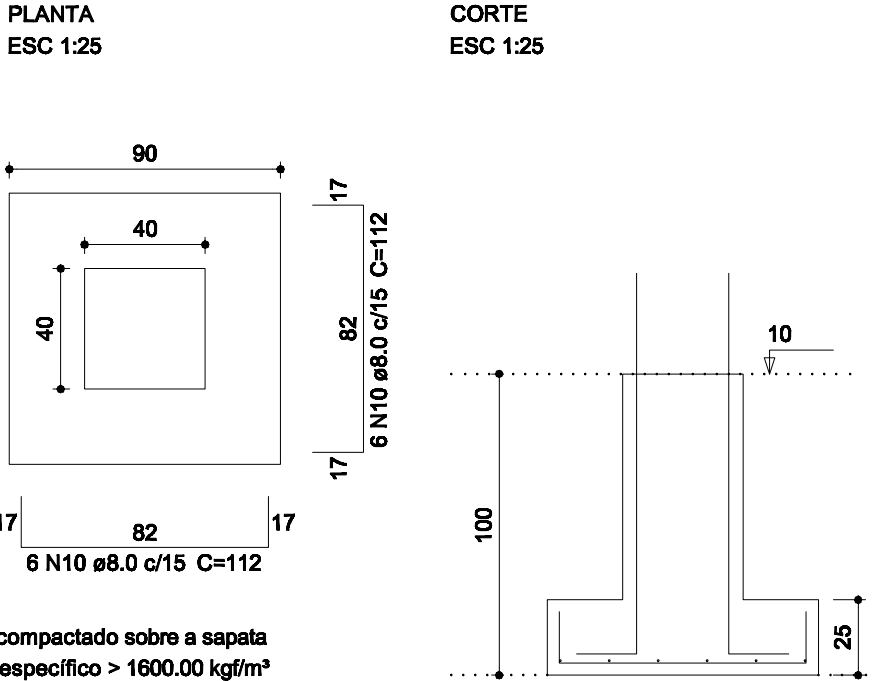
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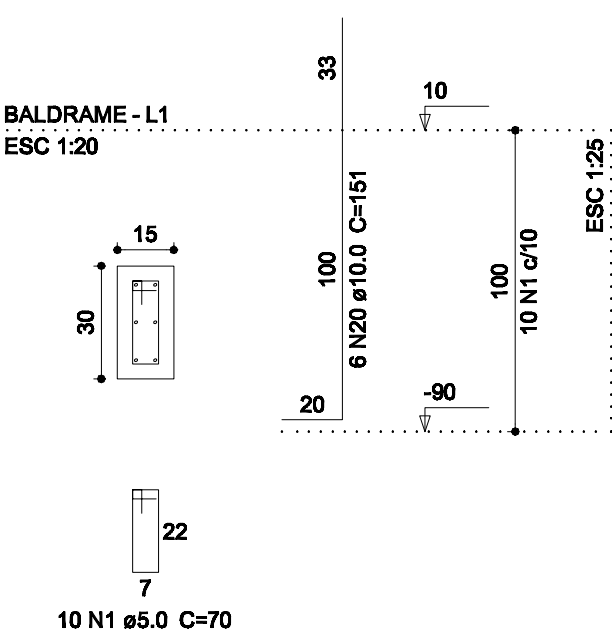
P5



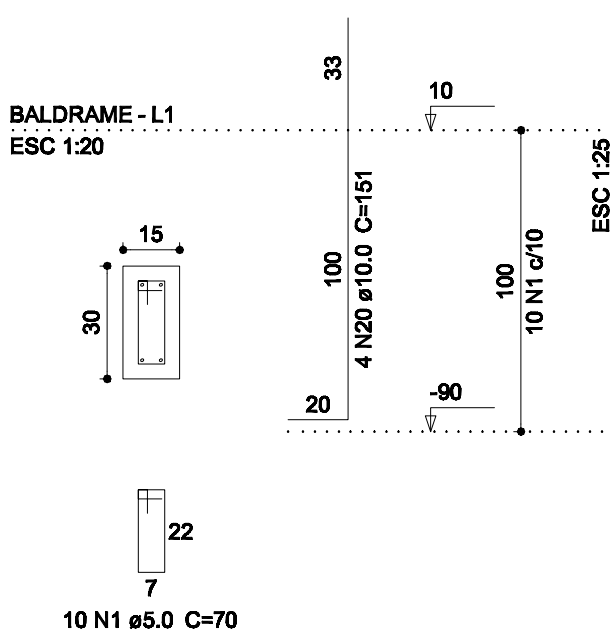
S5



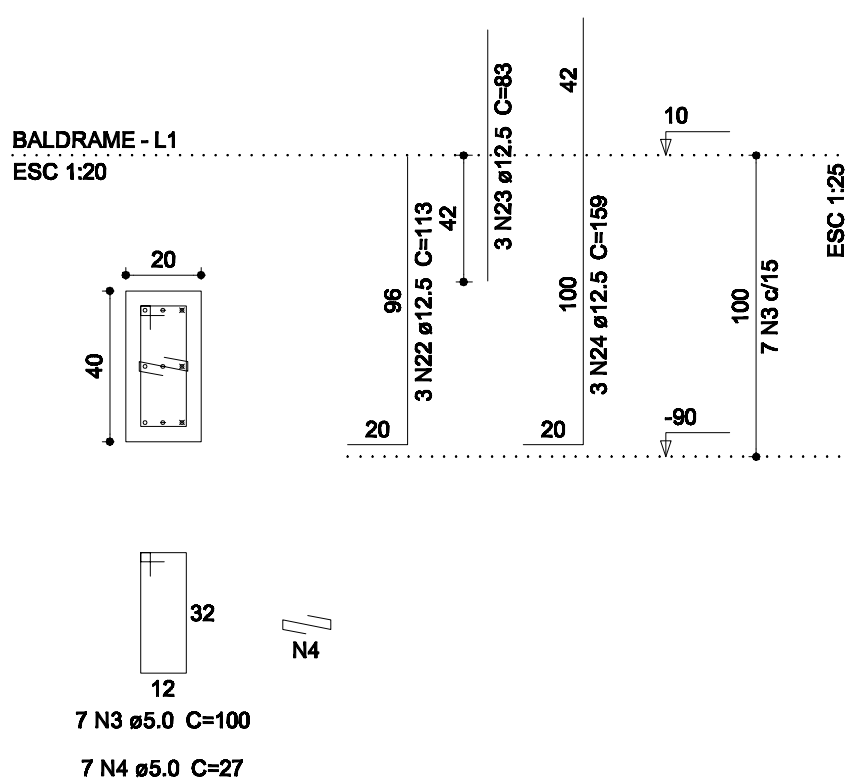
P19=P21



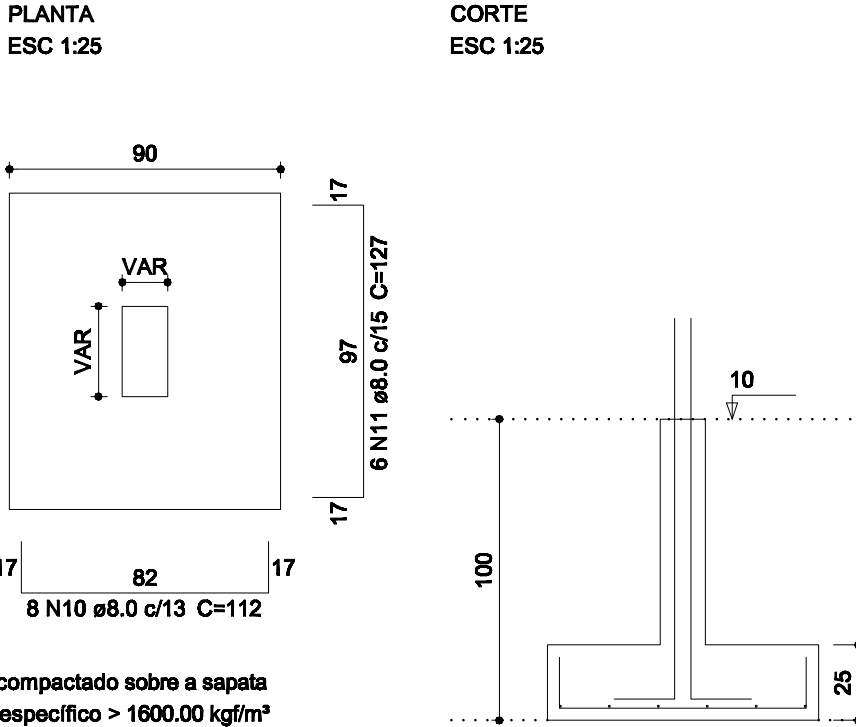
P3=P13=P15=P22



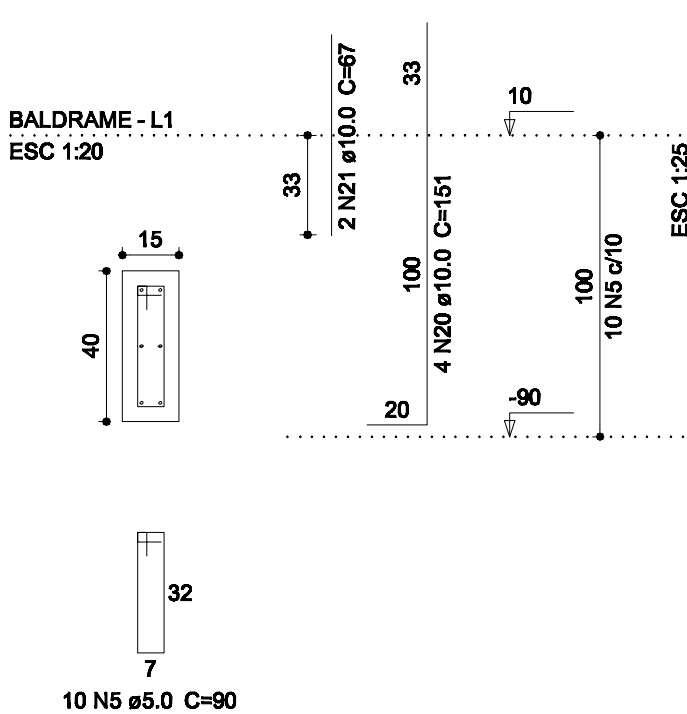
P4



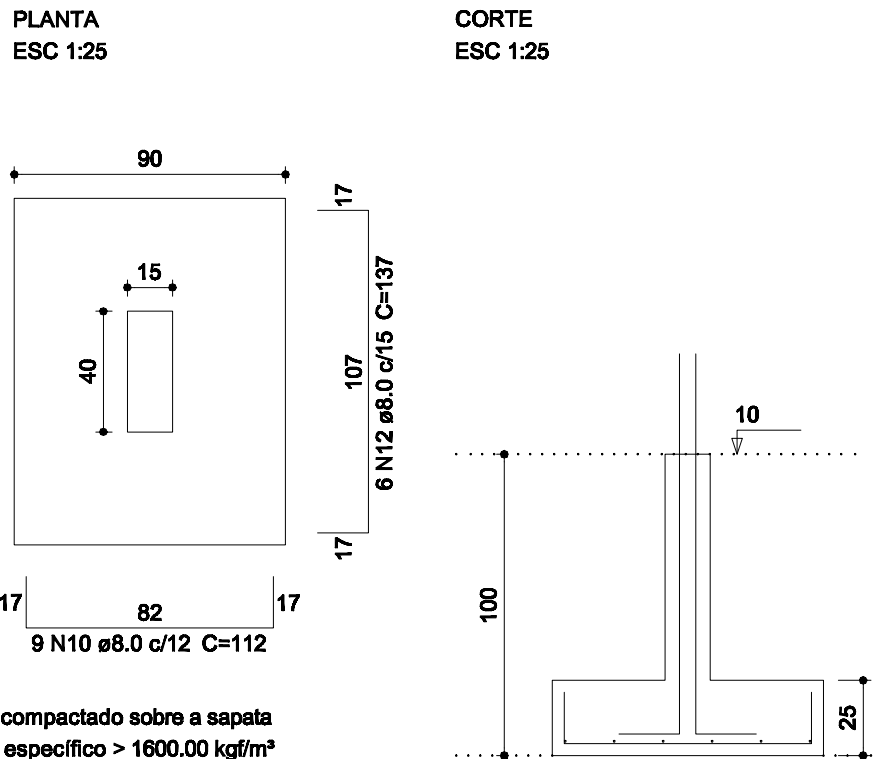
S3=S4=S13=S15=S19=S21=S22



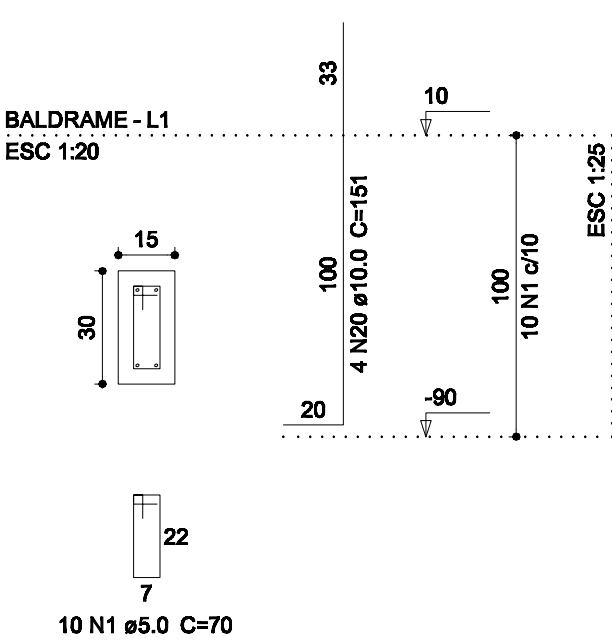
P1



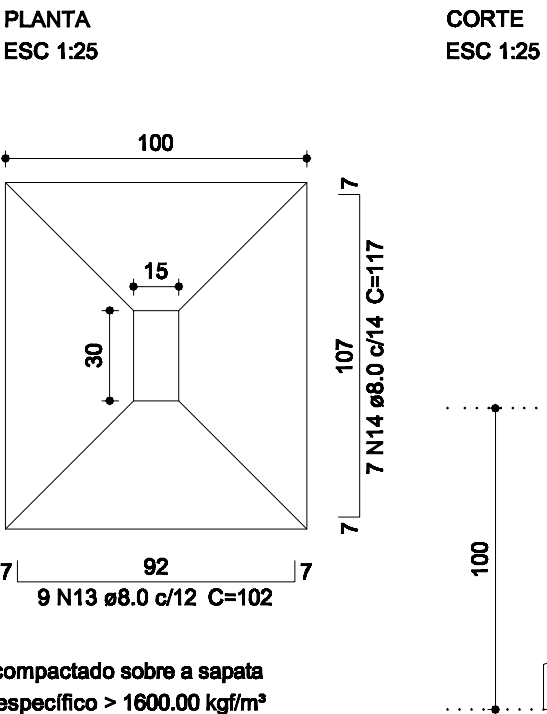
S1



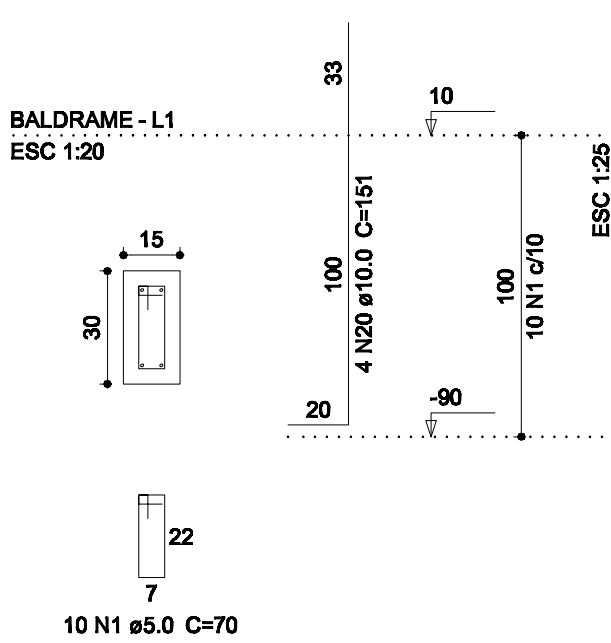
P2=P9=P14



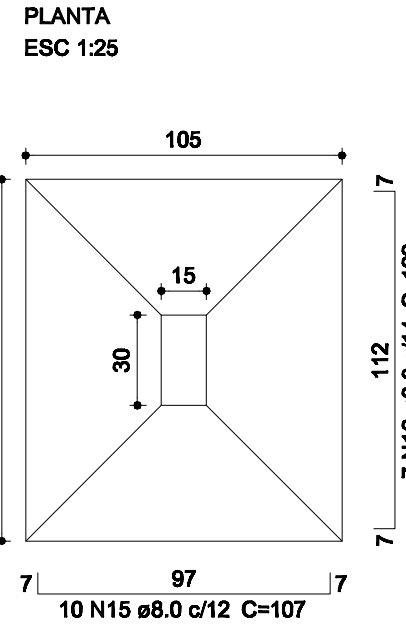
S2=S9=S14



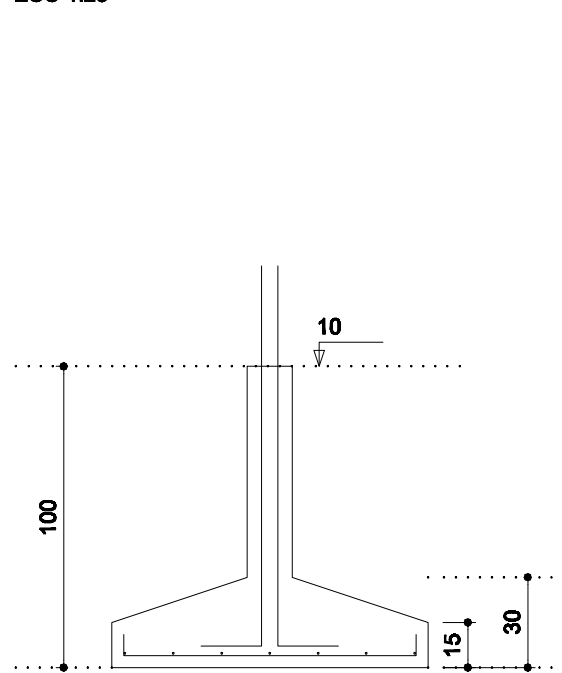
P7



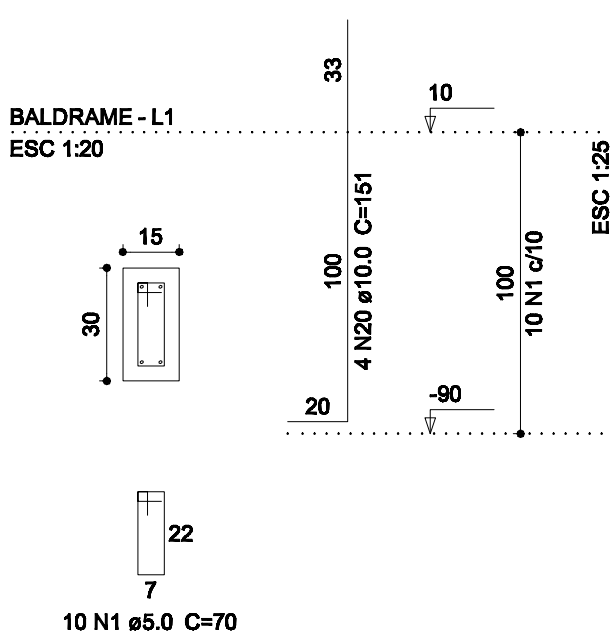
S7



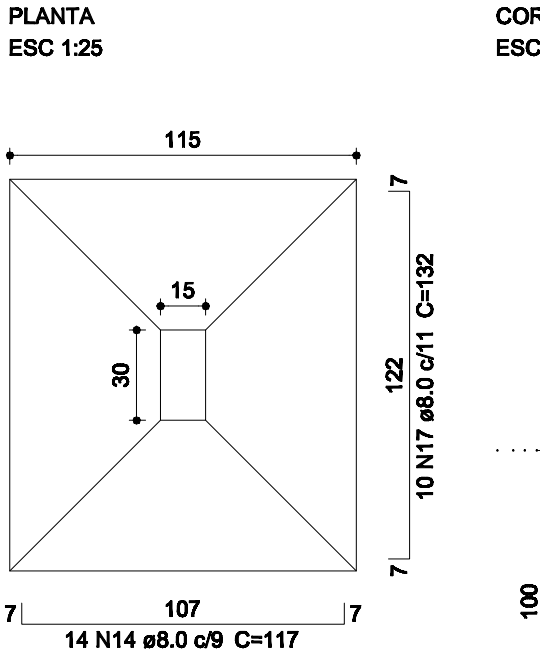
CORTE



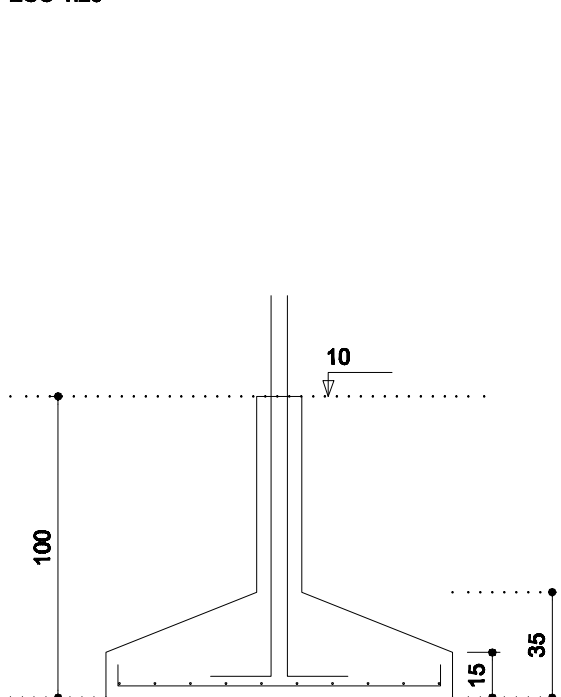
P8



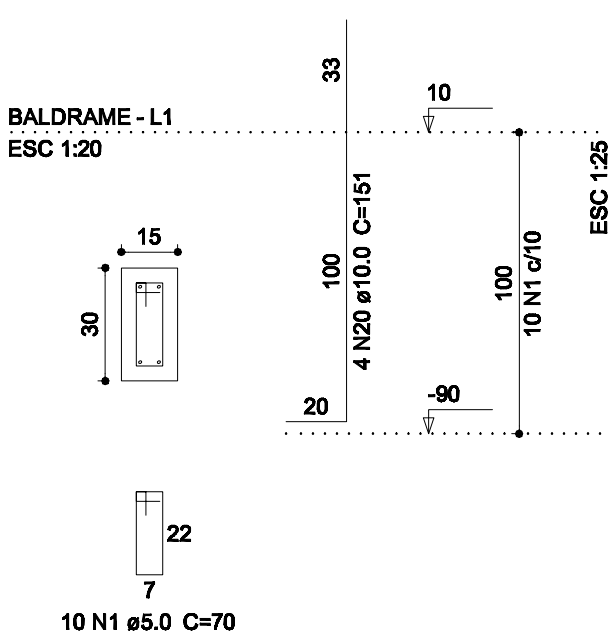
S8



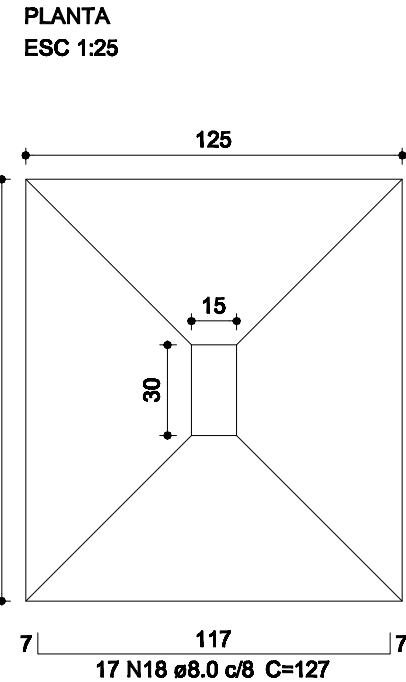
CORTE



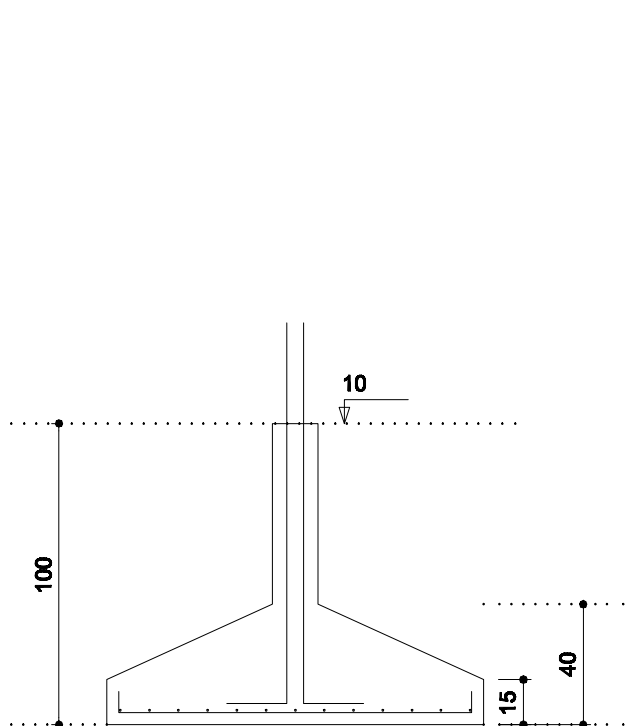
P12



S12



CORTE



Relação do aço

AÇO	N	DIAM	Q	UNIT	C.TOTAL
CA60	1	5.0	190	70	13300
	2	5.0	30	110	3300
	3	5.0	7	100	700
	4	5.0	7	27	189
	5	5.0	10	90	900
	6	8.0	12	87	1044
	7	8.0	47	102	4794
	8	8.0	24	107	2588
	9	8.0	30	117	3510
	10	8.0	77	112	8624
	11	8.0	42	127	5334
	12	8.0	6	137	822
	13	8.0	27	102	2754
	14	8.0	35	117	4095
	15	8.0	10	107	1070
	16	8.0	7	122	854
	17	8.0	10	132	1320
	18	8.0	17	127	2159
	19	8.0	13	142	1846
	20	10.0	102	151	15402
	21	10.0	2	67	134
	22	12.5	3	113	339
	23	12.5	3	83	249
	24	12.5	3	159	477

Resumo do aço

AÇO	DIAM	C.TOTAL	PESO + 10 %
CA50	8.0	406	177.1
	10.0	155.4	105.4
	12.5	10.7	11.3
CA60	5.0	183.9	31.2
PESO TOTAL			
CA50	293.7		
CA60	31.2		

Vol. de concreto total (C-30) = 1.28 m³
Vol. de concreto total (C-20) = 5.46 m³
Área de forma total = 43.58 m²

IMPORTANTE.: A fundação foi dimensionada considerando um solo arenoso com uma pressão admissível de 1,5Kg/cm², peso específico de 1600Kg/m³ e redutor do atrito de 0,67. Essa consideração foi efetuada devido a ser um projeto padrão. Nesse caso, antes de iniciar a construção em sapatas, deve-se realizar a sondagem do solo a ser edificado, e no caso de não apresentar os valores de resistência apresentados acima, a fundação deve ser redimensionada.

Elemento	Características dos materiais		
	fck (kgf/cm²)	Ecs (kgf/cm²)	Abatimento (mm)
Vigas	300	260716	80
Pilares	300	260716	80
Lajes	300	260716	80
Sapatas/bloco	200	212874	80

NOME DO PROJETO:	CENTRO DE REFERENCIA DE ASSISTÊNCIA SOCIAL	REF.:
LOCAL:	PASSO DE TORRES/SC	
TIPO DE PROJETO:	ESTRUTURAL	
CARACTERÍSTICAS:	PROJETO - CRAS	
	ARMADURA DAS SAPATAS	
PAVIMENTO:	BALDRAME	
AUTOR DO PROJETO:	ENG. CIVIL. ROBERTO DANIEL GEVAERD CREA/SC 041750-9	
	AVALIUS ENGENHARIA E AVALIAÇÕES LTDA	
ÁREA: 189,06 m²	ESCALA: INDICADA	DATA: OUTUBRO/2018
		DES. EDVÂNIO PACHECO