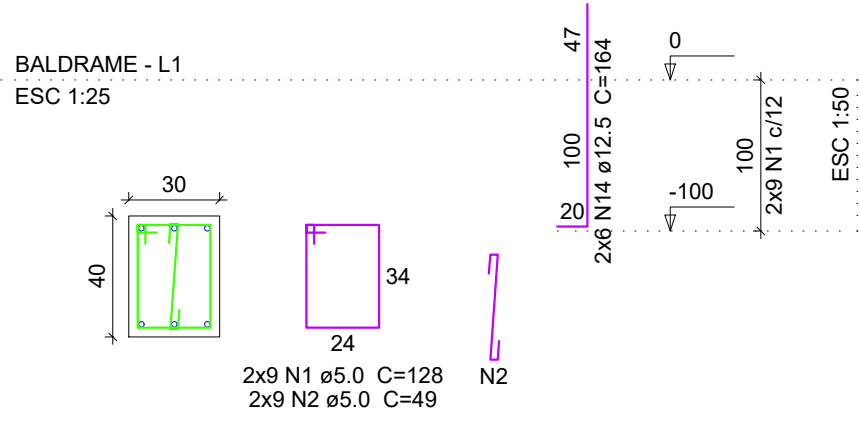
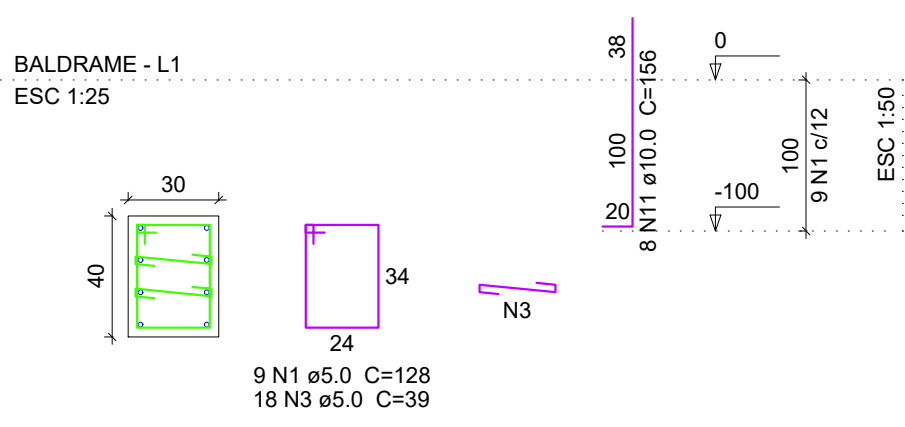


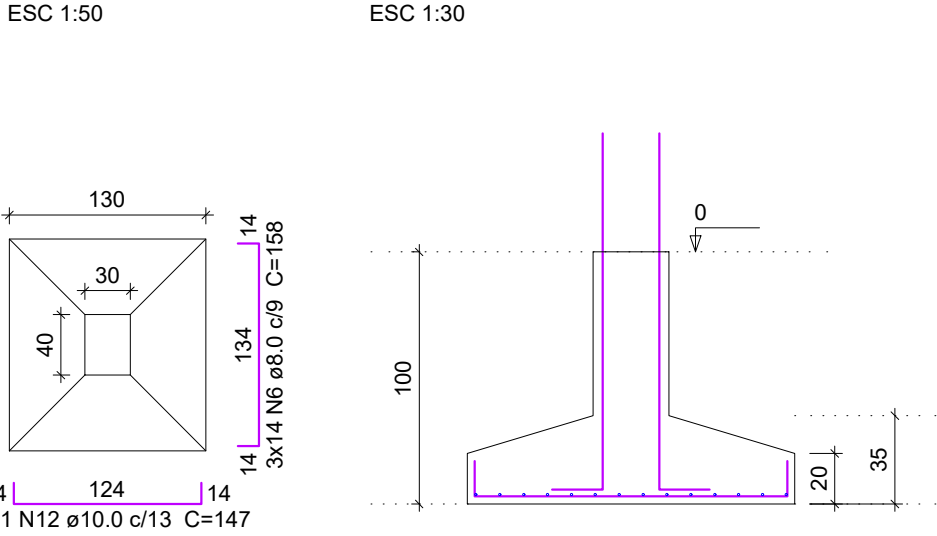
P1=P7



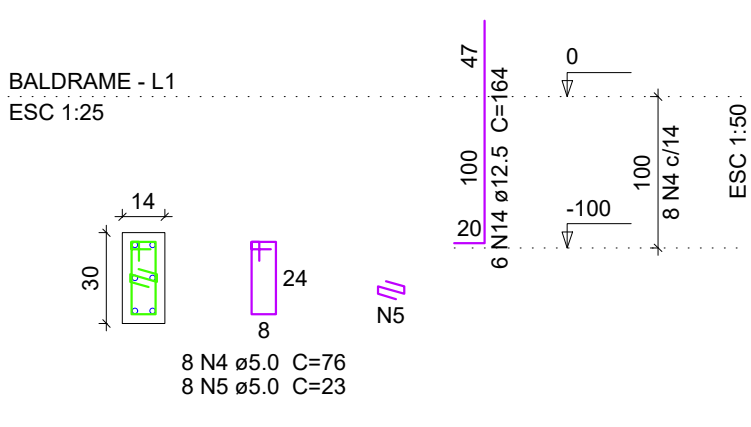
P8



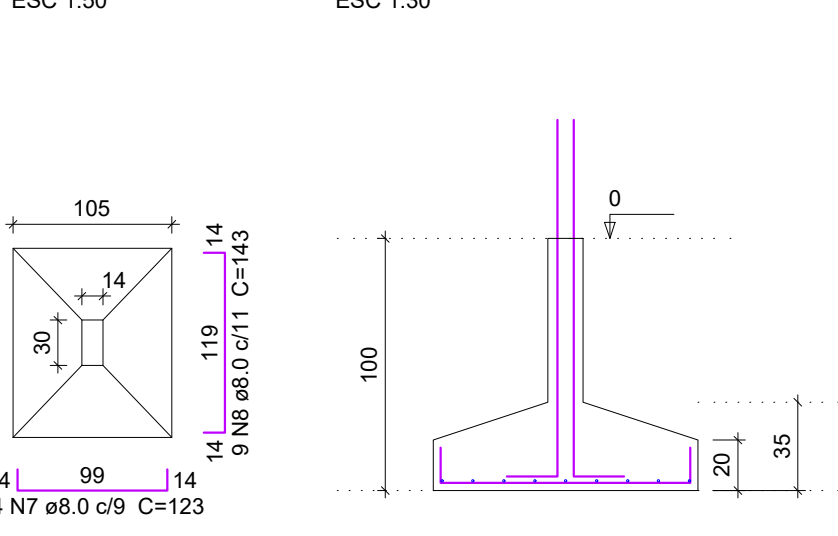
S1=S7=S8



P2



S2



Relação do aço

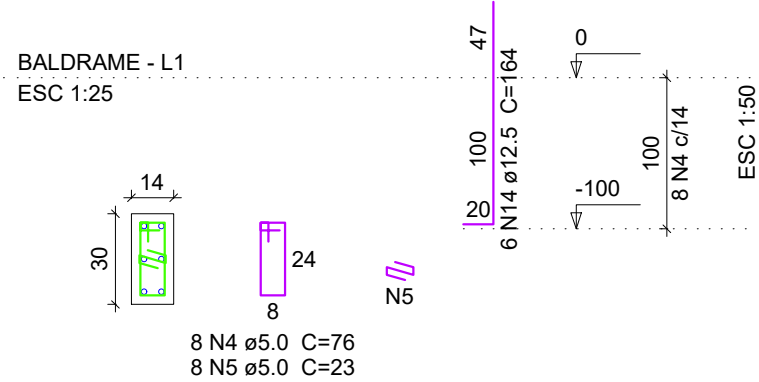
S2 S5	S3 S7		S4		
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	36	128	4608
	2	5.0	18	49	882
	3	5.0	36	39	1404
	4	5.0	33	76	2508
	5	5.0	16	23	368
CA50	6	8.0	42	158	6636
	7	8.0	25	123	3075
	8	8.0	9	143	1287
	9	8.0	21	138	2898
	10	8.0	11	148	1628
	11	10.0	24	156	3744
	12	10.0	61	147	8967
	13	10.0	20	167	3340
	14	12.5	32	164	5248

Resumo do aço

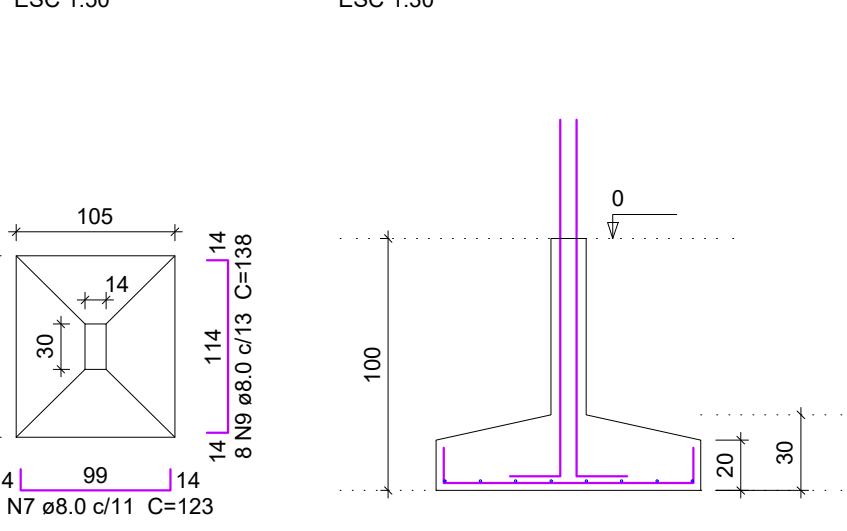
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	155.3	67.4
	10.0	160.6	108.9
	12.5	52.5	55.6
CA60	5.0	97.7	16.6
PESO TOTAL (kg)			
CA50		231.8	
CA60		16.6	

Volume de concreto (C-25) = 4.21 m³
Área de forma = 17.42 m²

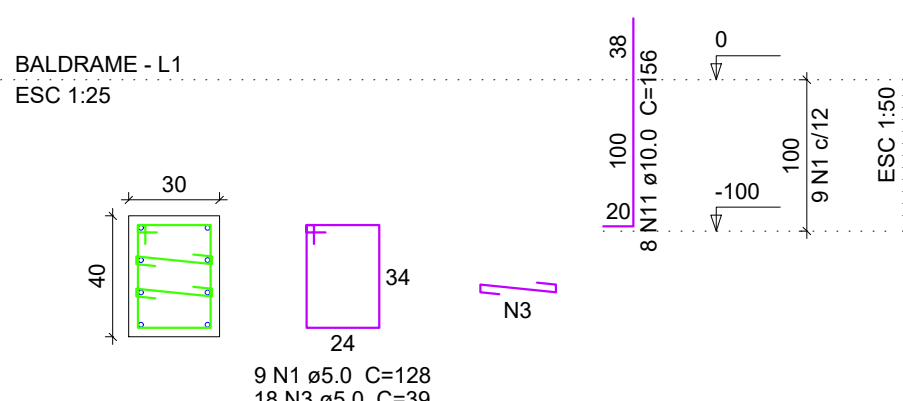
P3



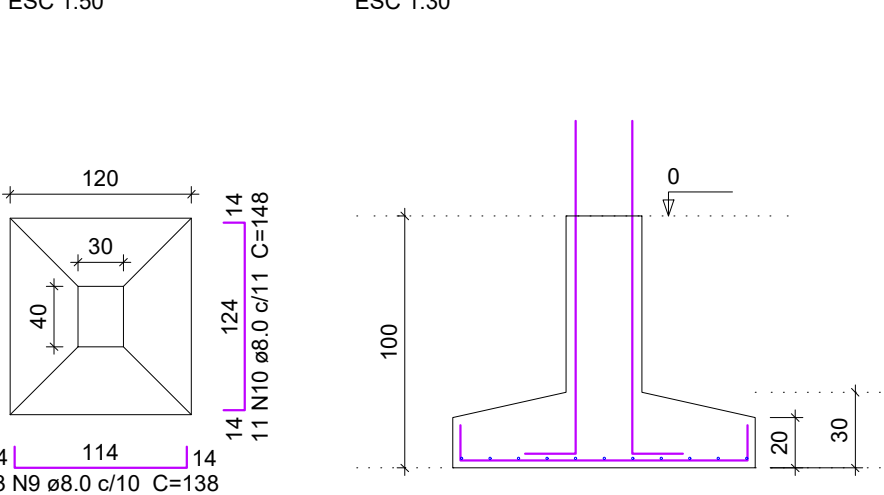
S3



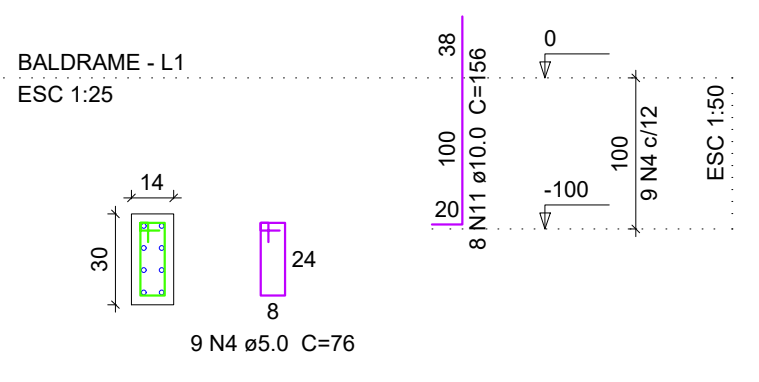
P4



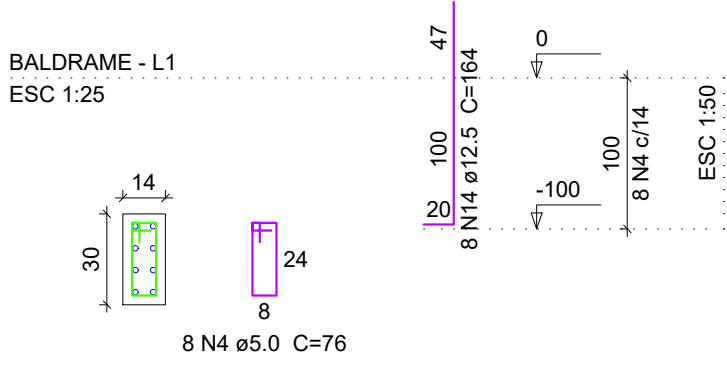
S4



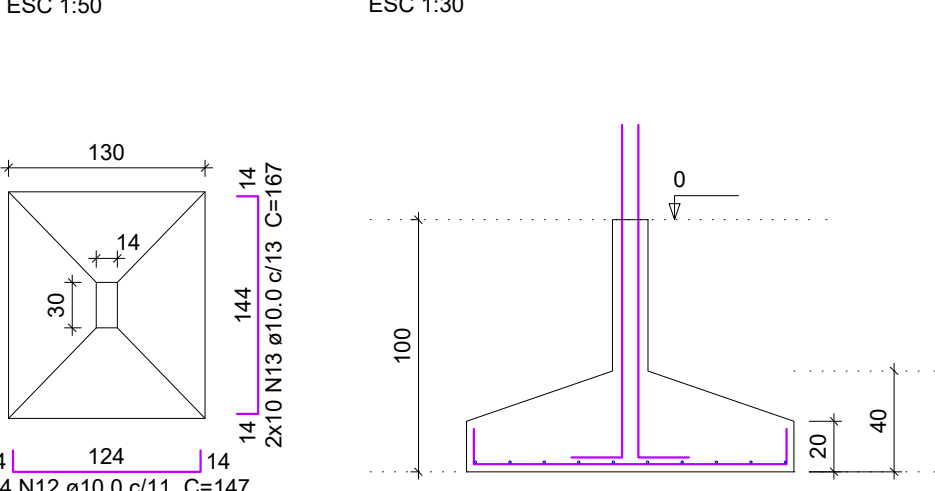
P5



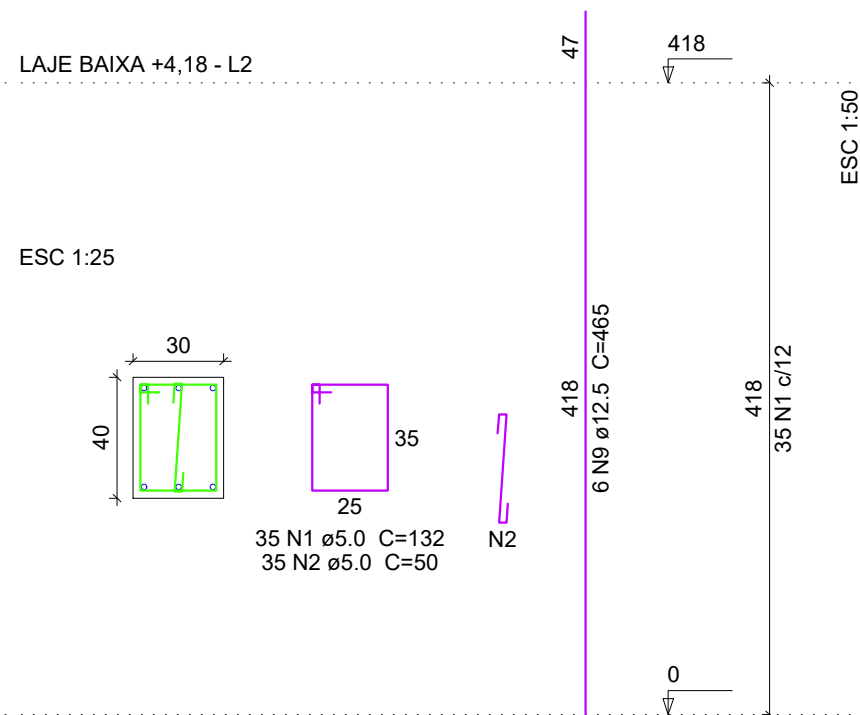
P6



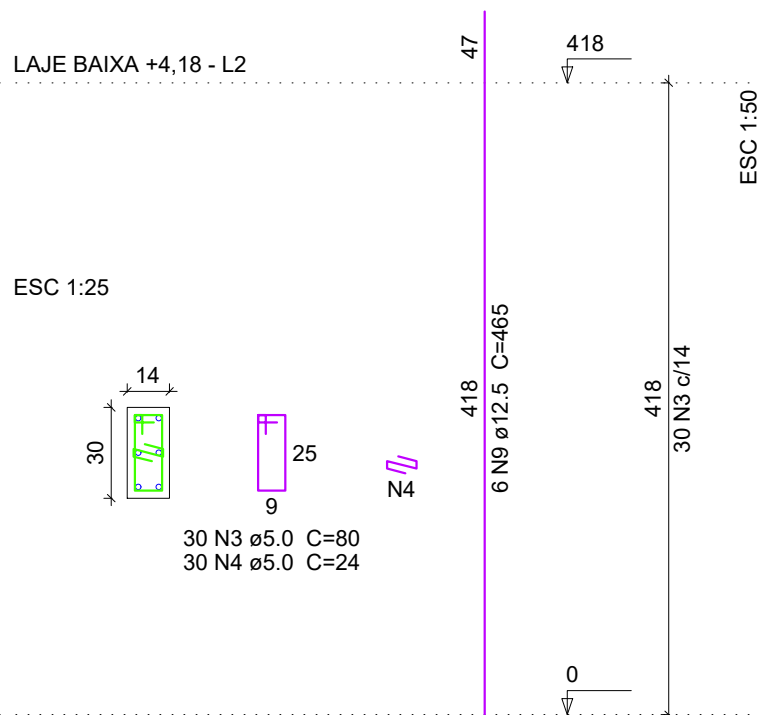
S5=S6



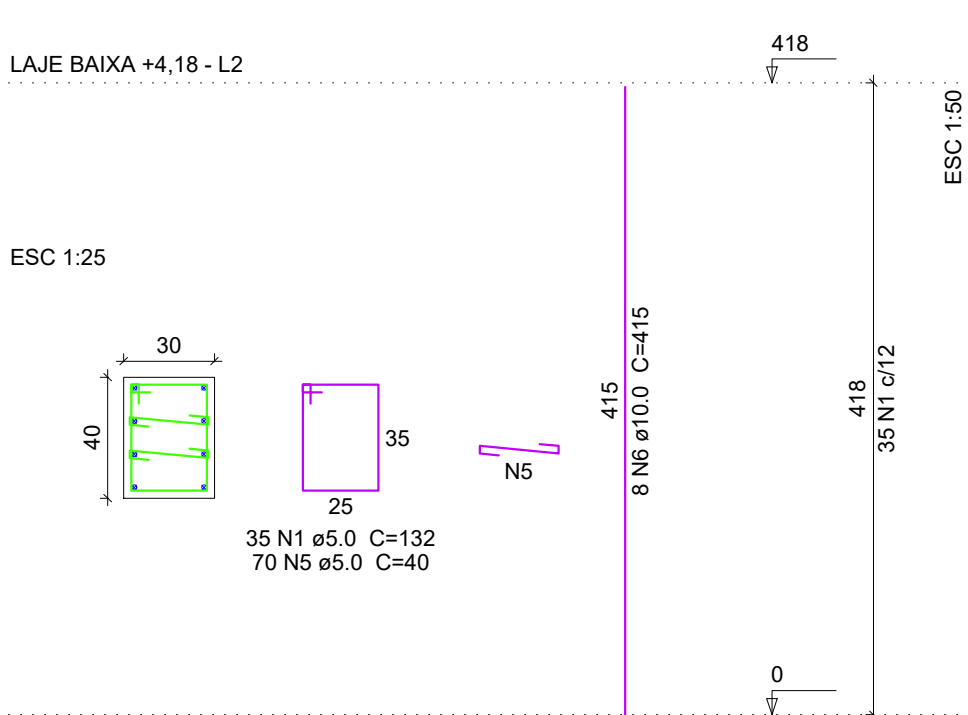
P1=P7



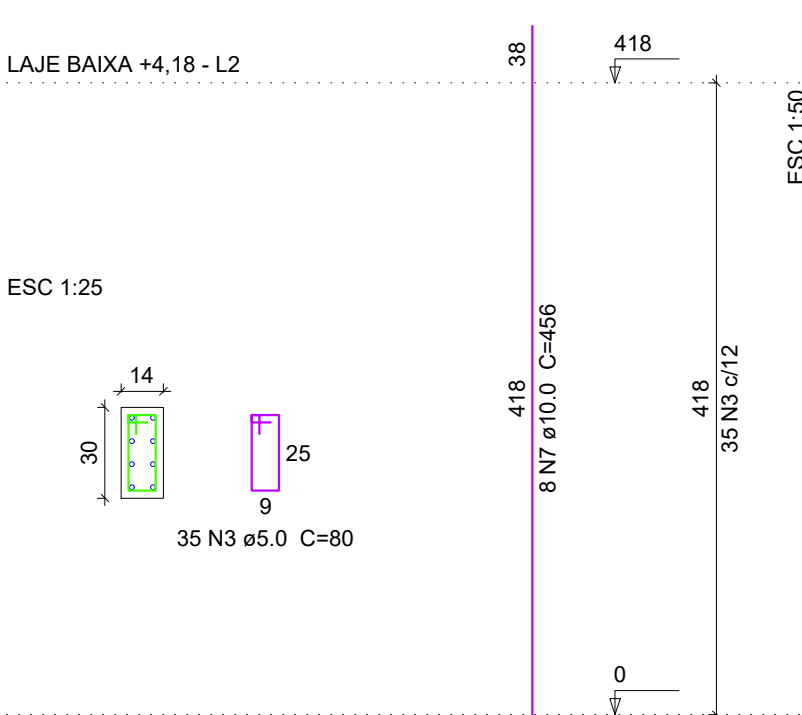
P2=P3



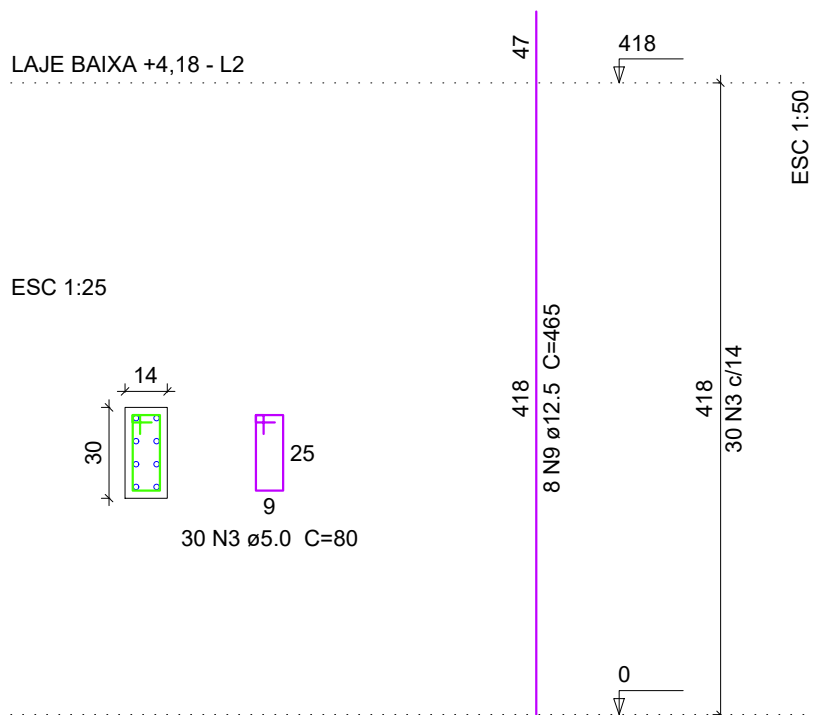
P4=P8



P5



P6



Relação do aço

LAJE ALTA +5,18:	2xP1	2xP2
2xP5		
LAJE BAIXA +4,18:	2xP1	2xP2
2xP4		
P6		
4xP2		

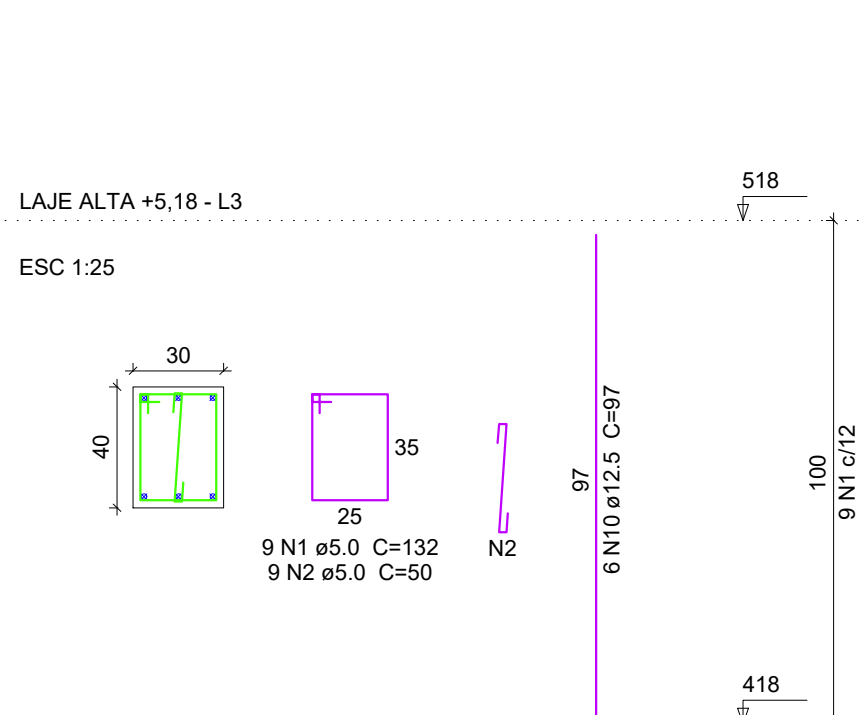
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	158	132	20856
	2	5.0	88	50	4400
	3	5.0	221	80	17680
	4	5.0	78	24	1824
	5	5.0	140	40	5600
CA50	6	10.0	16	415	6640
	7	10.0	8	456	3648
	8	10.0	16	177	2832
	9	12.5	32	465	14880
	10	12.5	24	97	2328
	11	12.5	16	147	2352

Resumo do aço

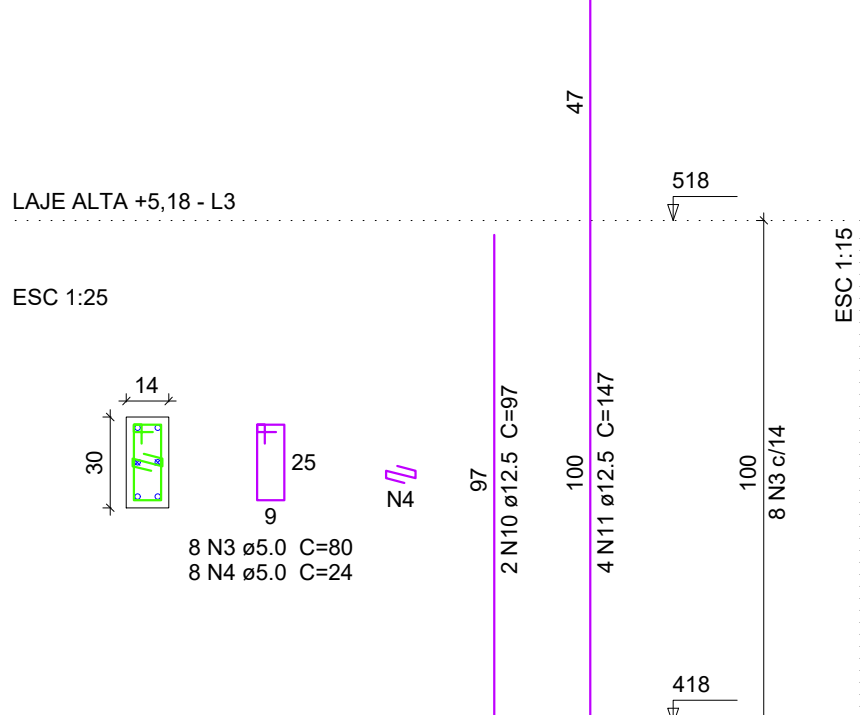
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	131.2	89
	12.5	195.6	207.3
CA60	5.0	503.6	85.4
PESO TOTAL (kg)			
CA50		296.3	
CA60		85.4	

Volume de concreto (C-25) = 3.42 m³
Área de forma = 50.78 m²

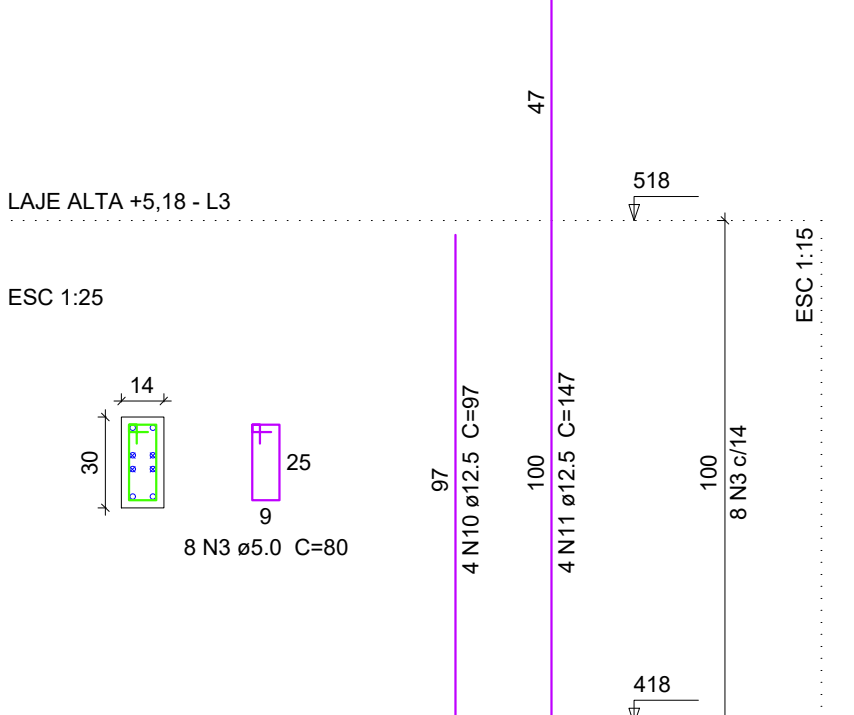
P1=P7



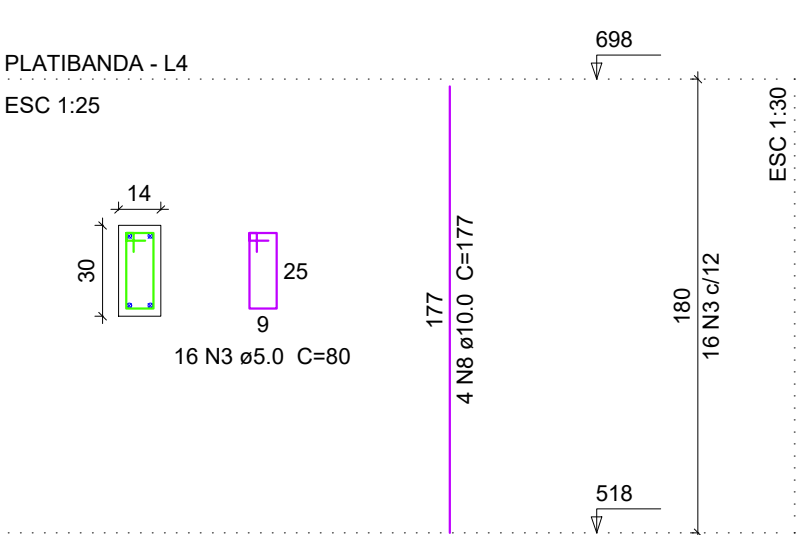
P2=P3



P5=P6



P2=P3=P5=P6



PROJETO ESTRUTURAL PORTARIA
PREFEITURA MUNICIPAL
DE JAPONVAR

ENDEREÇO=	PRANCHA=	ÁREA TOTAL=
PORTARIA PARQUE	02 DE 04	m²
		DATA=
		ABRIL / 2024
RESP. TÉCNICO=		
ARIEL FERREIRA ROCHA CREA-MG: 210.948/D		PREFEITURA MUNICIPAL JAPONVAR CNPJ: 01.612.476/0001-46