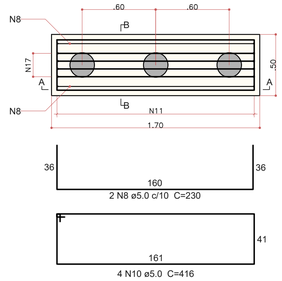
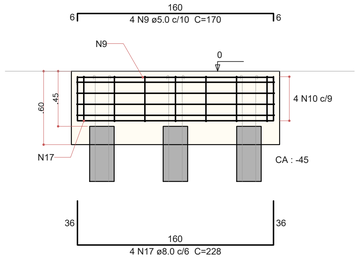
B1=B2
3xR20

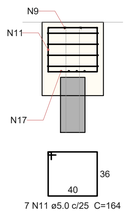
Aviso - Bloco com estaca tracionada:
Prever armaduras das estacas
ancoradas na face superior do bloco.



PLANTA
ESC 1:25

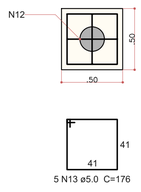


CORTE A-A
ESC 1:25

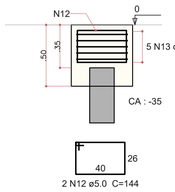


CORTE B-B
ESC 1:25

B3=B4=B5
1xR20



PLANTA
ESC 1:25



CORTE
ESC 1:25

Relação do aço

9xEst-C20

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	14	5.0	225	60	13500
CA50	20	10.0	54	350	18900

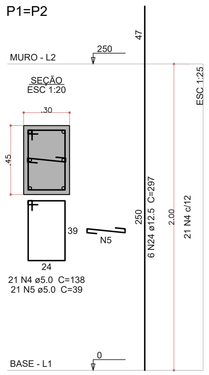
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	189	128.2
CA60	5.0	135	22.9

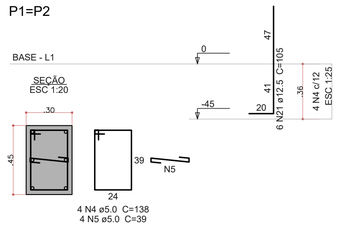
PESO TOTAL (kg)	
CA50	128.2
CA60	22.9

Volume de concreto (C-25) = 1.41 m³

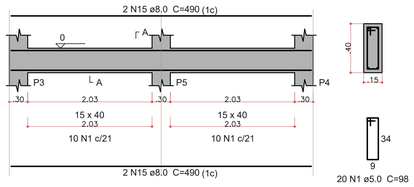
P1=P2



P1=P2



V1
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

2xB2 3xB5 V1

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	98	1960
	8	5.0	4	230	920
	9	5.0	8	170	1360
	10	5.0	8	416	3328
	11	5.0	14	164	2296
	12	5.0	6	144	864
	13	5.0	15	176	2640
CA50	15	8.0	4	490	1960
	17	8.0	8	228	1824

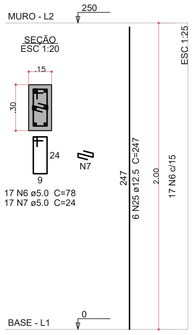
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	37.9	16.4
CA60	5.0	133.7	22.7

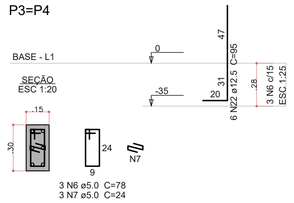
PESO TOTAL (kg)	
CA50	16.4
CA60	22.7

Volume de concreto (C-25) = 1.6 m³
Área de forma = 12.99 m²

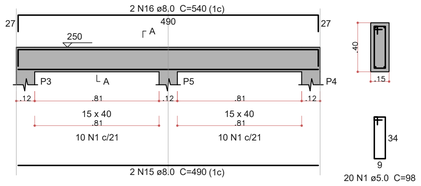
P3=P4=P5



P3=P4



V1_1
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

Base:	2xP1 P5	2xP3
Muro:	2xP1 V1_1	3xP3
Respaldo:	2xP1	V1

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	98	1960
	2	5.0	33	148	4884
	3	5.0	33	66	2178
	4	5.0	66	138	9108
	5	5.0	66	39	2574
	6	5.0	60	78	4680
	7	5.0	57	24	1368
CA50	15	8.0	2	490	980
	16	8.0	2	540	1080
	18	10.0	3	729	2187
	19	10.0	3	796	2388
	21	12.5	12	105	1260
	22	12.5	18	95	1710
	23	12.5	2	44	88
	24	12.5	12	297	3564
	25	12.5	18	247	4446
	26	12.5	12	167	2004

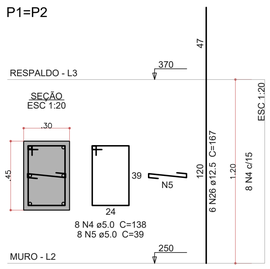
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	20.6	8.9
	10.0	45.8	31
	12.5	130.8	138.5
CA60	5.0	267.6	45.4

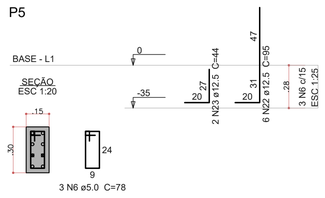
PESO TOTAL (kg)	
CA50	178.5
CA60	45.4

Volume de concreto (C-25) = 2.55 m³
Área de forma = 34.41 m²

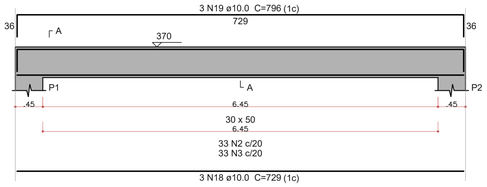
P1=P2



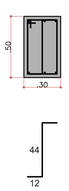
P5



V1
ESC 1:50



SEÇÃO A-A
ESC 1:25



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PORTARIA: 320/2026

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DIVISÃO DE ENGENHARIA, PROJETOS E OBRAS

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