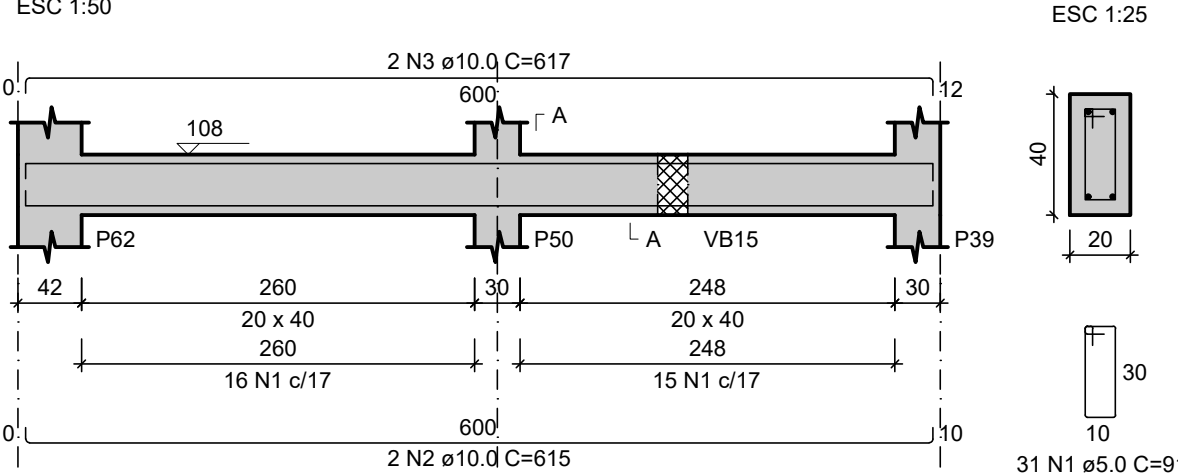
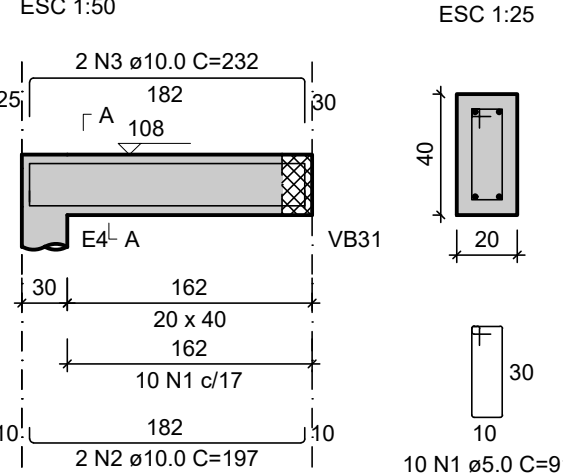


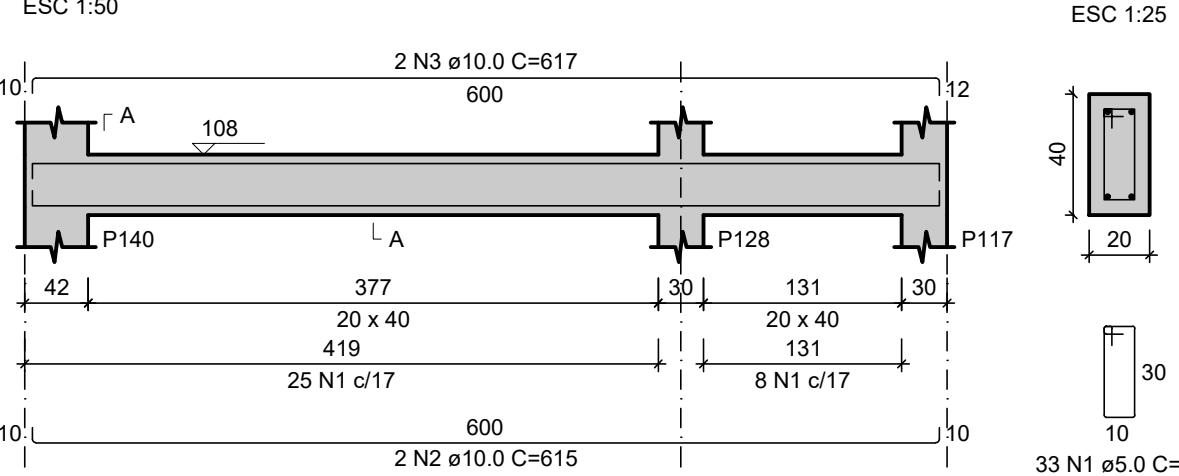
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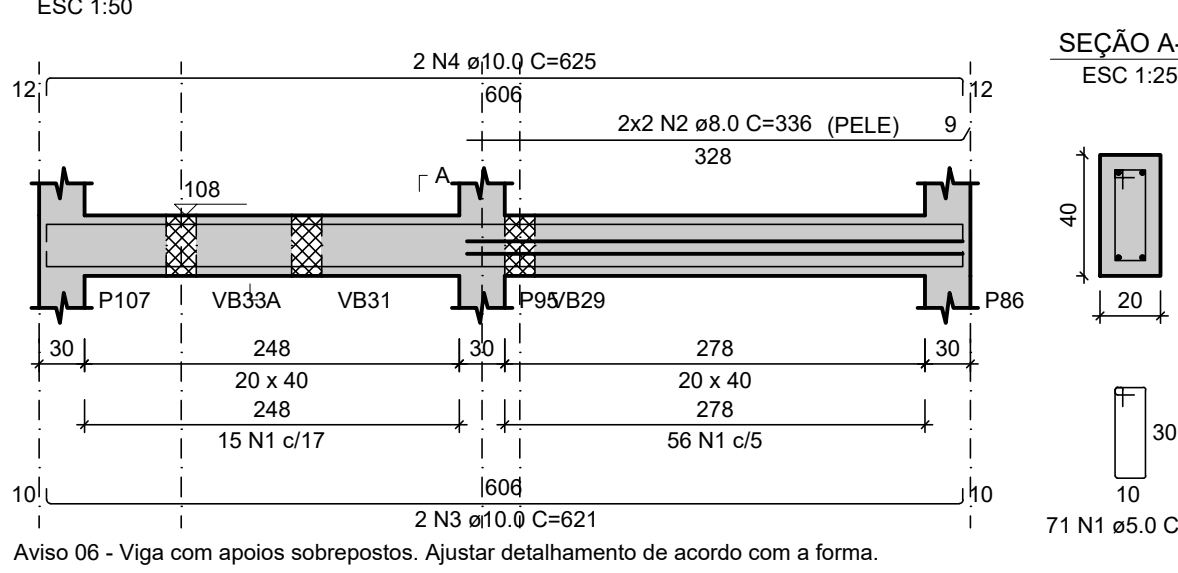
VB72



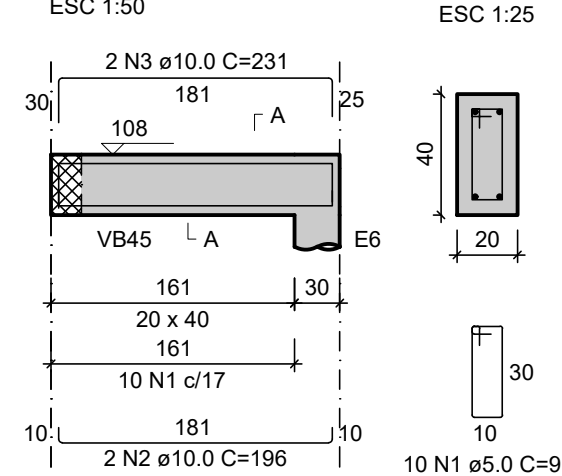
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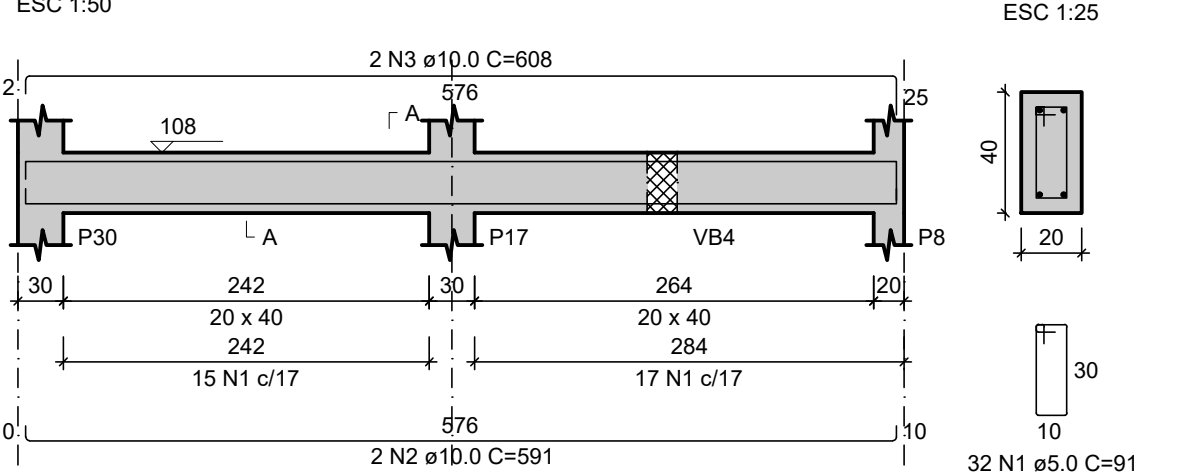
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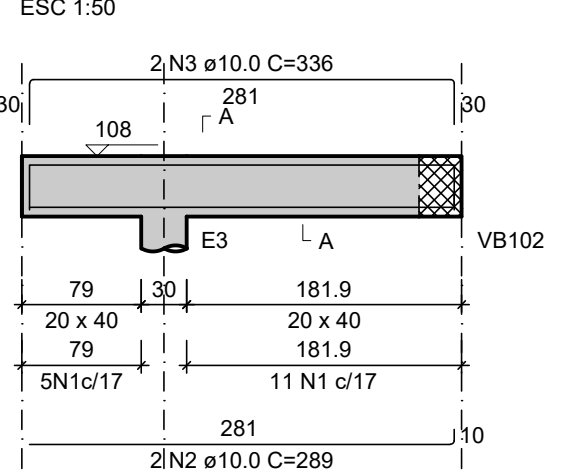
VB78



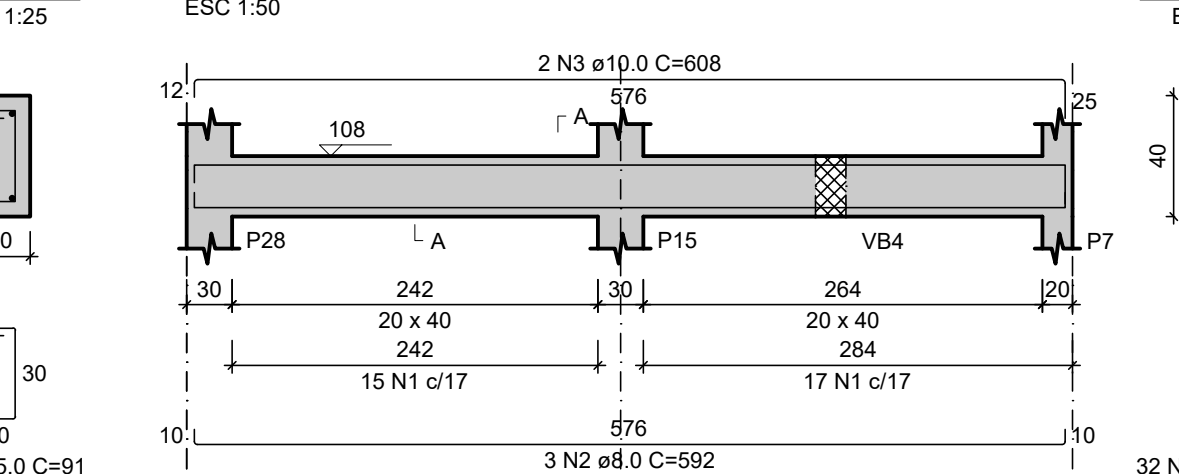
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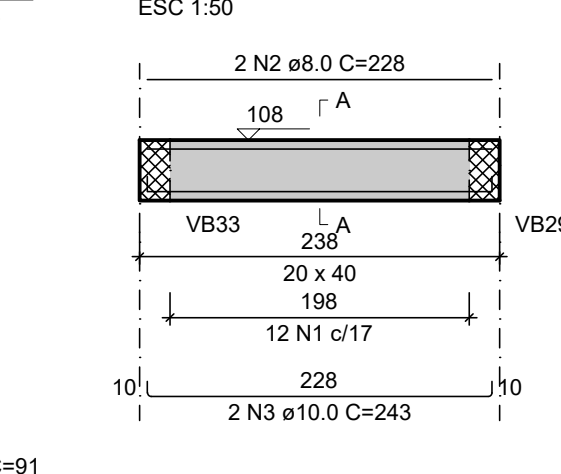
VB76



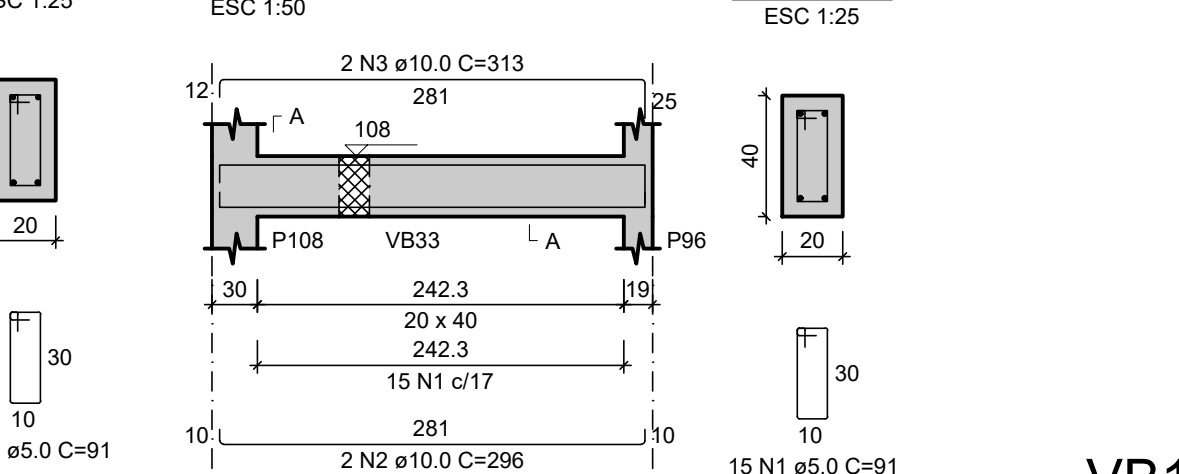
VB77



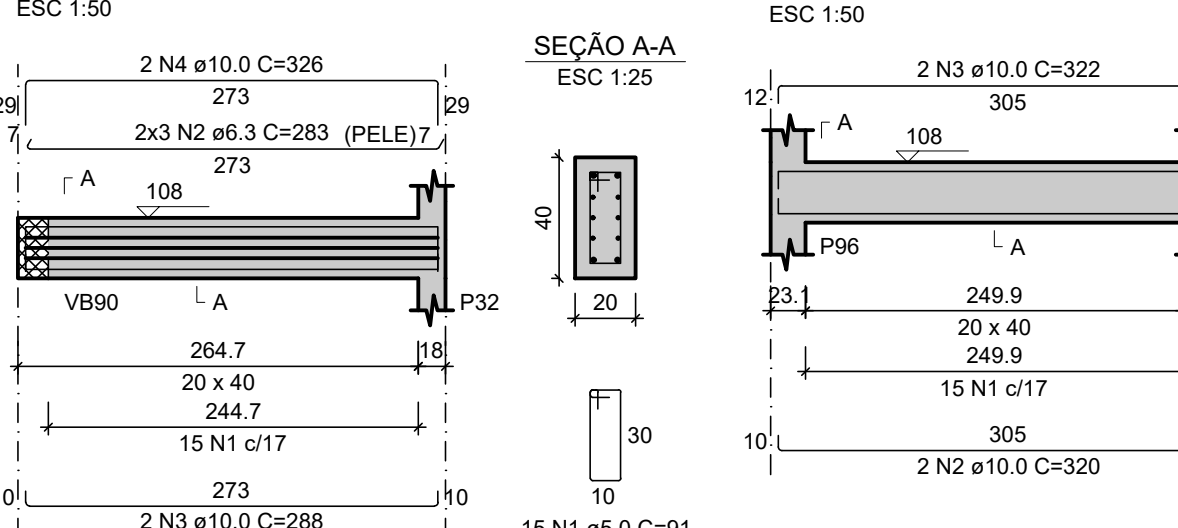
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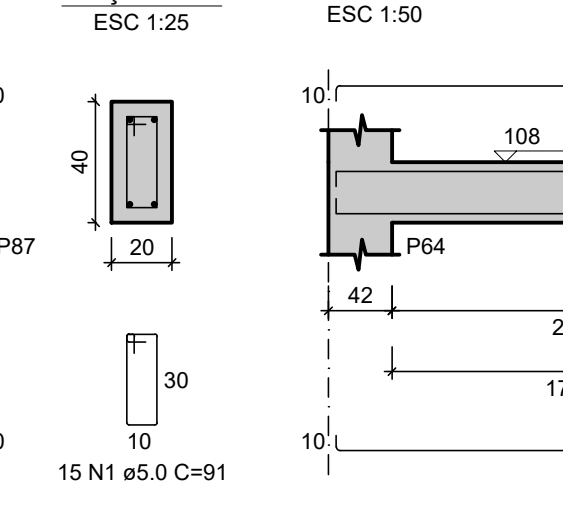
VB81



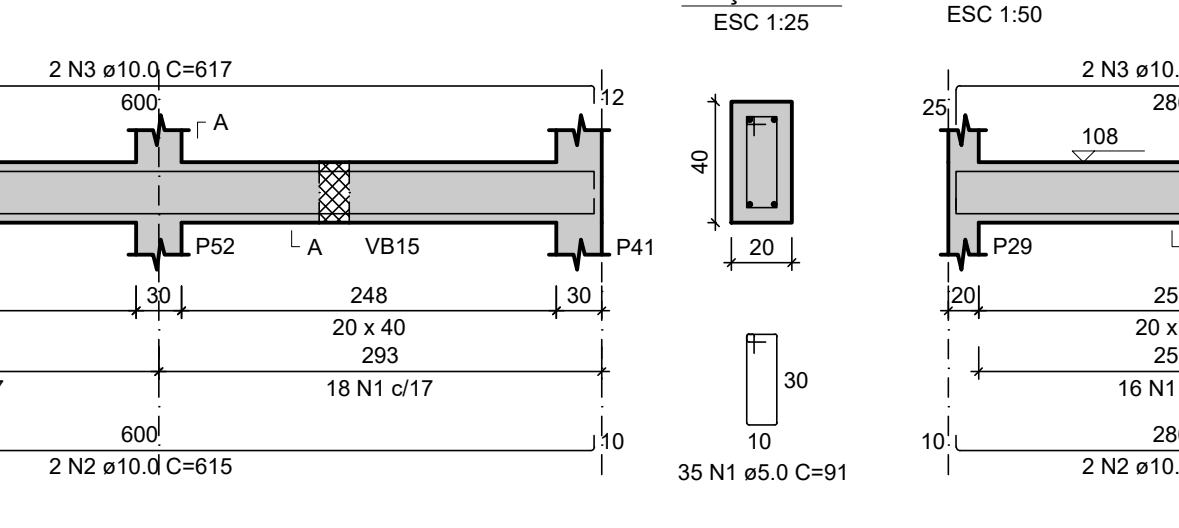
VB97



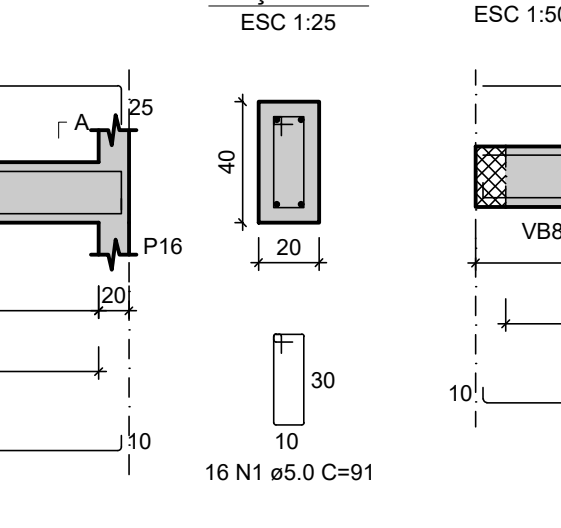
VB82



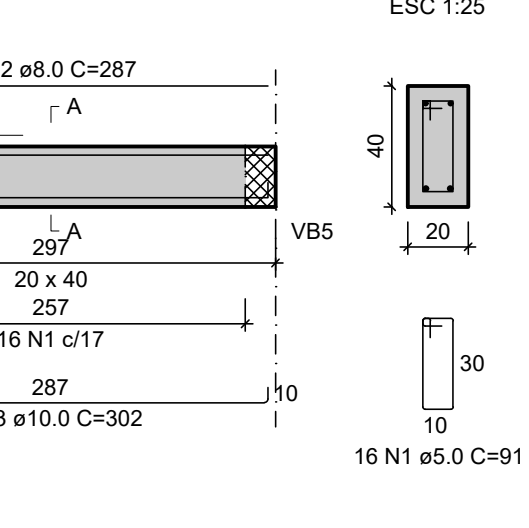
VB83



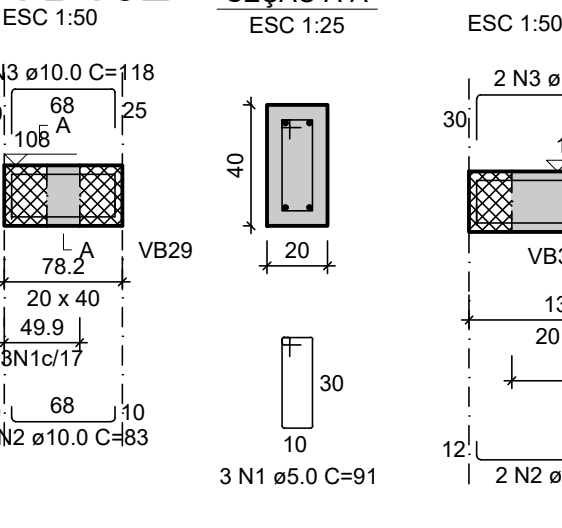
VB84



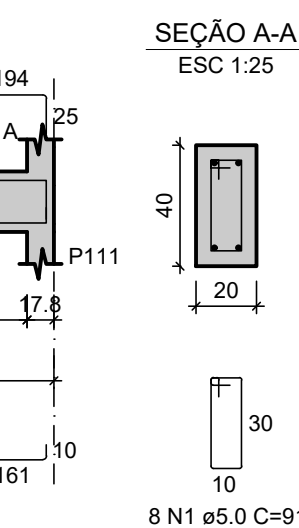
VB85



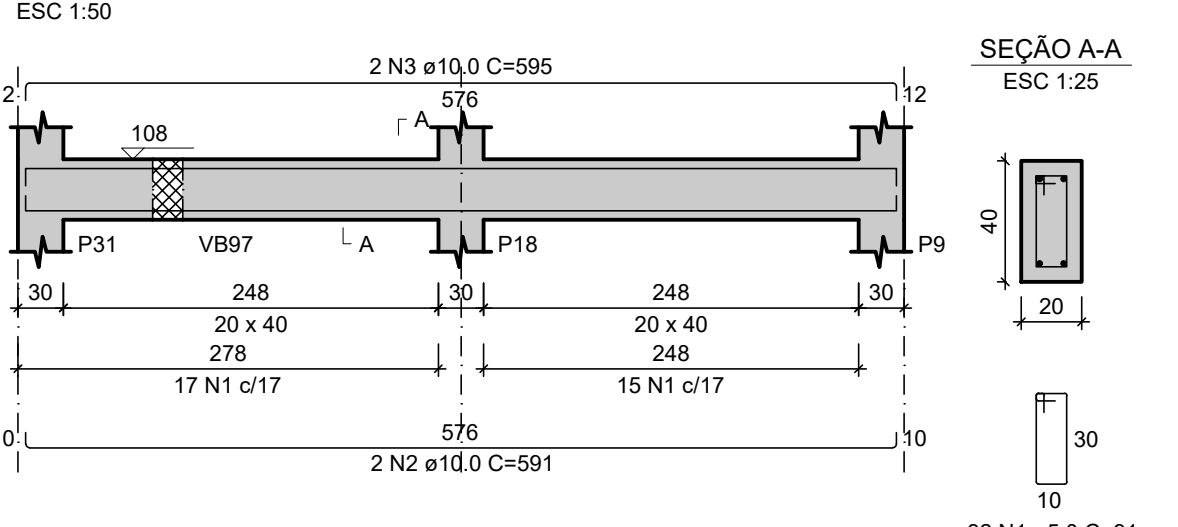
VB102



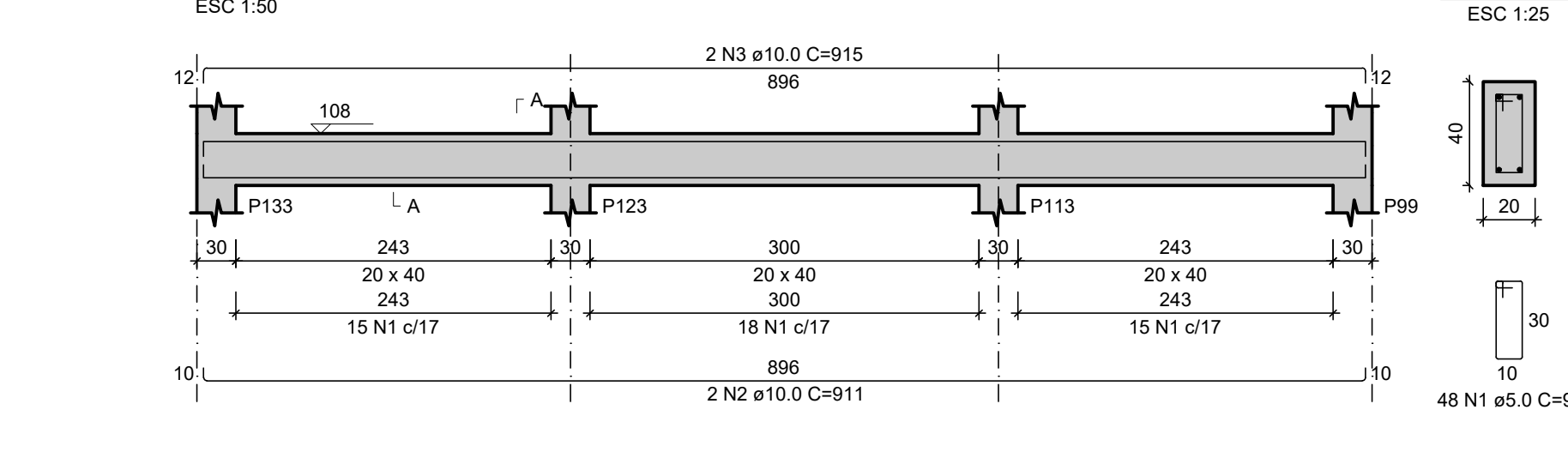
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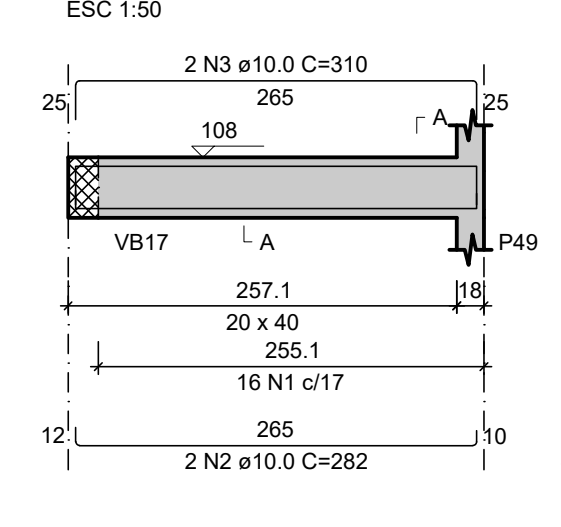
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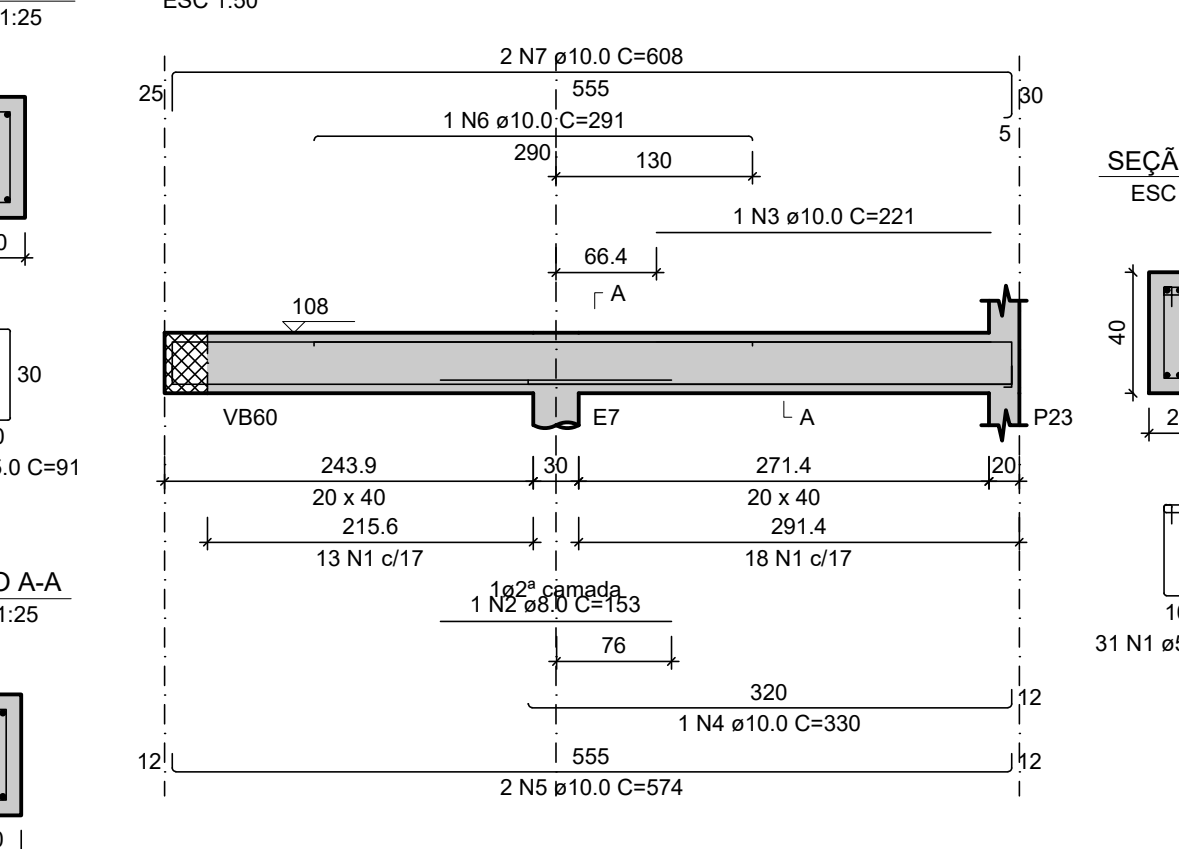
VB95=VB96



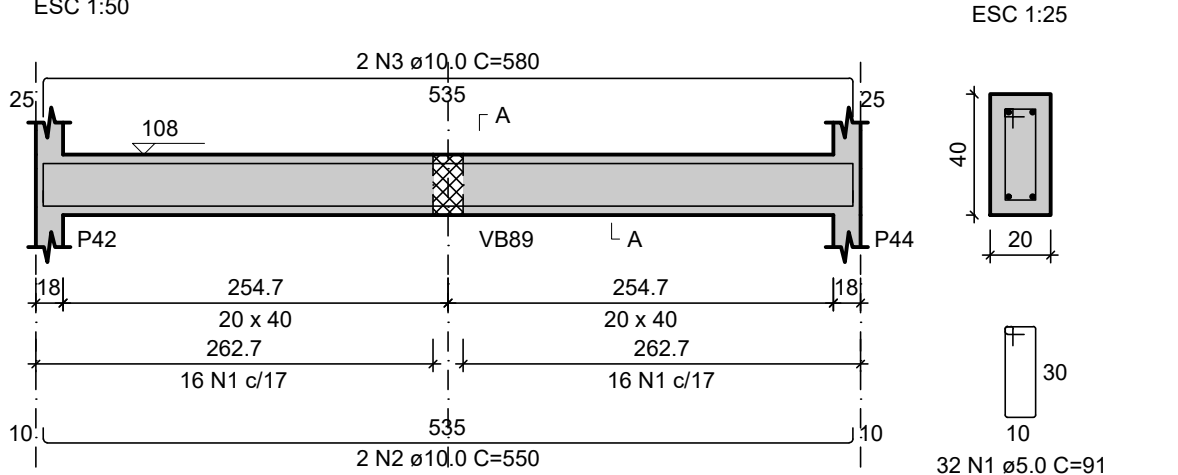
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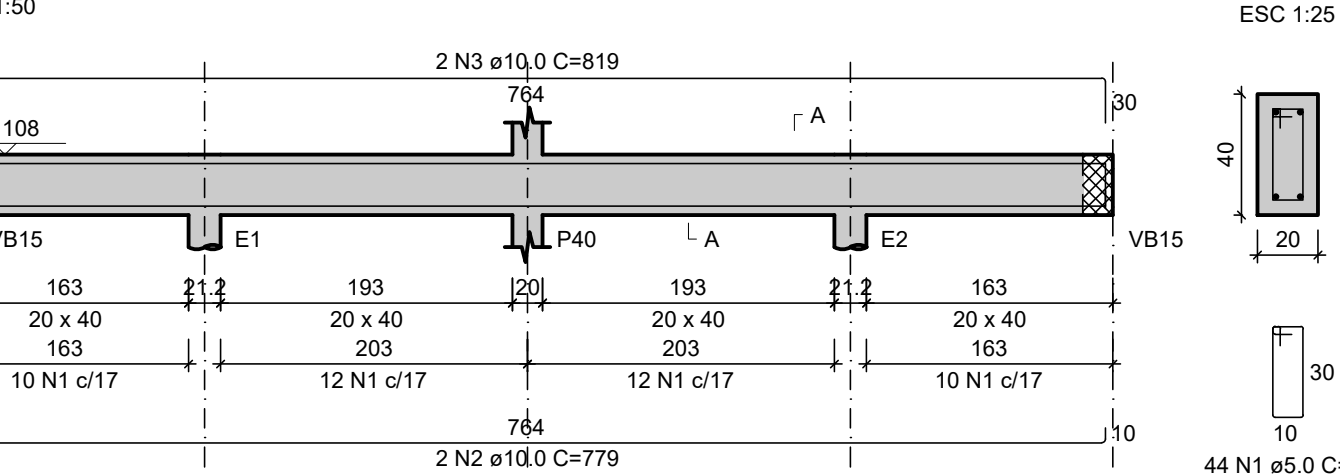
VB98



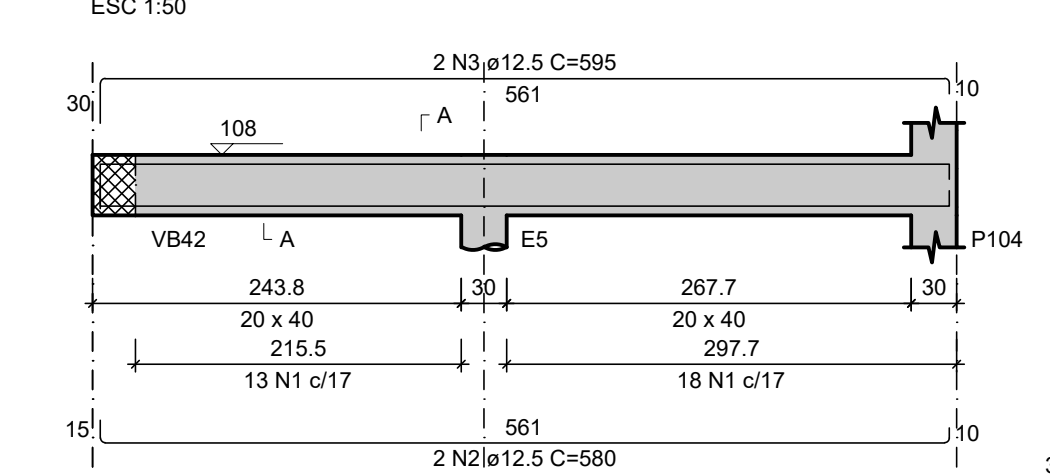
VB99



VB100



VB106

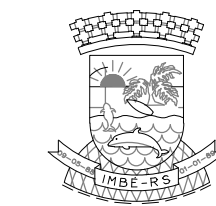


RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
3xVB71	CA60	1	5.0	93	91	8463
	CA50	2	10.0	6	615	3690
	CA50	3	10.0	6	617	3702
	CA60	1	5.0	10	91	910
	CA50	2	10.0	2	197	394
VB72	CA50	3	10.0	2	232	464
	CA60	1	5.0	33	91	3003
	CA50	2	10.0	2	615	1230
	CA50	3	10.0	2	617	1234
	CA50	2	10.0	2	617	1234
VB74	CA60	1	5.0	71	91	6461
	CA50	2	8.0	4	336	1344
	CA50	3	10.0	2	621	1242
	CA50	4	10.0	2	625	1250
	CA60	1	5.0	16	91	1456
VB76	CA50	2	10.0	2	289	578
	CA50	3	10.0	2	336	672
	CA60	1	5.0	32	91	2912
	CA50	2	8.0	3	592	1776
	CA50	3	10.0	2	608	1216
VB78	CA60	1	5.0	10	91	910
	CA50	2	10.0	2	196	392
	CA50	3	10.0	2	231	462
	CA60	1	5.0	12	91	1092
	CA50	2	8.0	2	228	456
VB79	CA50	3	10.0	2	243	486
	CA60	1	5.0	15	91	1365
	CA50	2	10.0	2	296	592
	CA50	3	10.0	2	313	626
	CA60	1	5.0	15	91	1365
VB81	CA50	2	10.0	2	320	640
	CA50	3	10.0	2	322	644
	CA60	1	5.0	35	91	3185
	CA50	2	10.0	2	615	1230
	CA50	3	10.0	2	617	1234
VB84	CA60	1	5.0	16	91	1456
	CA50	2	10.0	2	301	602
	CA50	3	10.0	2	331	662
	CA60	1	5.0	16	91	1456
	CA50	2	8.0	2	287	574
VB85	CA50	3	10.0	2	302	604
	CA60	1	5.0	32	91	2912
	CA50	2	10.0	2	591	1182
	CA50	3	10.0	2	608	1216
	CA60	1	5.0	256	91	23296
8xVB90	CA50	2	10.0	16	591	9456
	CA50	3	10.0	16	595	9520
	CA60	1	5.0	96	91	8736
	CA50	2	10.0	4	911	3644
	CA50	3	10.0	4	915	3680
2xVB95	CA60	1	5.0	15	91	1365
	CA50	2	6.3	6	283	1698
	CA50	3	10.0	2	288	576
	CA50	4	10.0	2	326	652
	CA60	1	5.0	31	91	2821
VB97	CA50	2	8.0	1	153	153
	CA50	3	10.0	1	221	221
	CA50	4	10.0	1	330	330
	CA50	5	10.0	2	574	1148
	CA50	6	10.0	1	291	291
VB98	CA50	7	10.0	2	608	1216
	CA60	1	5.0	32	91	2912
	CA50	2	10.0	2	550	1100
	CA50	3	10.0	2	580	1160
	CA60	1	5.0	44	91	4004
VB99	CA50	2	10.0	2	779	1558
	CA50	3	10.0	2	819	1638
	CA60	1	5.0	16	91	1456
	CA50	2	10.0	2	282	564
	CA50	3	10.0	2	310	620
VB100	CA60	1	5.0	3	91	273
	CA50	2	10.0	8	166	1328
	CA50	3	10.0	2	118	236
	CA60	1	5.0	32	91	2912
	CA50	2	10.0	8	161	1288
4xVB103	CA50	3	10.0	8	194	1552
	CA60	1	5.0	31	91	2821
	CA50	2	12.5	2	580	1160
	CA50	3	12.5	2	595	1190
	CA50	3	12.5	2	595	1190

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	17	4.6
CA50	8.0	43	18.7
CA50	10.0	668.4	453.3
CA60	12.5	23.5	24.9
CA60	5.0	875.4	148.4

PESO TOTAL (kg)
CA50 501.5
CA60 148.4

Volume de concreto (C-30) = 11.79 m³
Área de forma = 148.63 m²



ADMINISTRAÇÃO
2025/2028
SECRETARIA MUNICIPAL
DE EDUCAÇÃO
imed@imbe.rs.gov.br



ESTADO DO RIO GRANDE DO SUL
PREFEITURA MUNICIPAL DE IMBÉ
AVENIDA PARAGUASSU, 2070 - CENTRO - IMBÉ - RS
FONE: 51.3627.8515 - CEP: 95.625-000

OBRA:
E. M. E. F. RUI BARBOSA
NOVAS INSTALAÇÕES

ENDEREÇO:
BAIRRO MARILUZ - IMBÉ - RS
AVENIDA MARILUZ, 1180
TERRENO URBANO - SETOR 35

ANALISTA:
ANA CAROLINA MOREIRA SANTOS
ARQUITETA E URBANISTA
CAU A175046

PROJETO:
BRUNO REBECHI DALLE MULLE
ENGENHEIRO CIVIL
CREA-RS 202822

RUTH JOSIELI MONTEIRO RUSCHEL
SECRETARIA MUNICIPAL DE EDUCAÇÃO

PROJETO:
ESTRUTURAL
ARMADURAS VIGAS DE BALDRAMES - 04

DESENHO:
BRUNO

ESCALA:
INDICADAS

DATA:
ABRIL 2025

ÁREA:
2.491,91 m²

FRANQUISA:
13/56