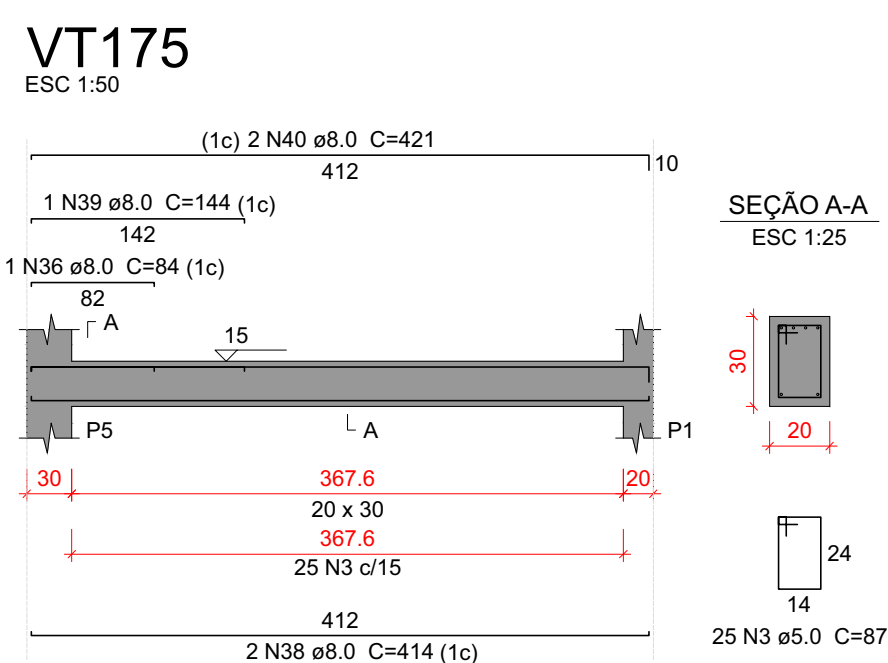
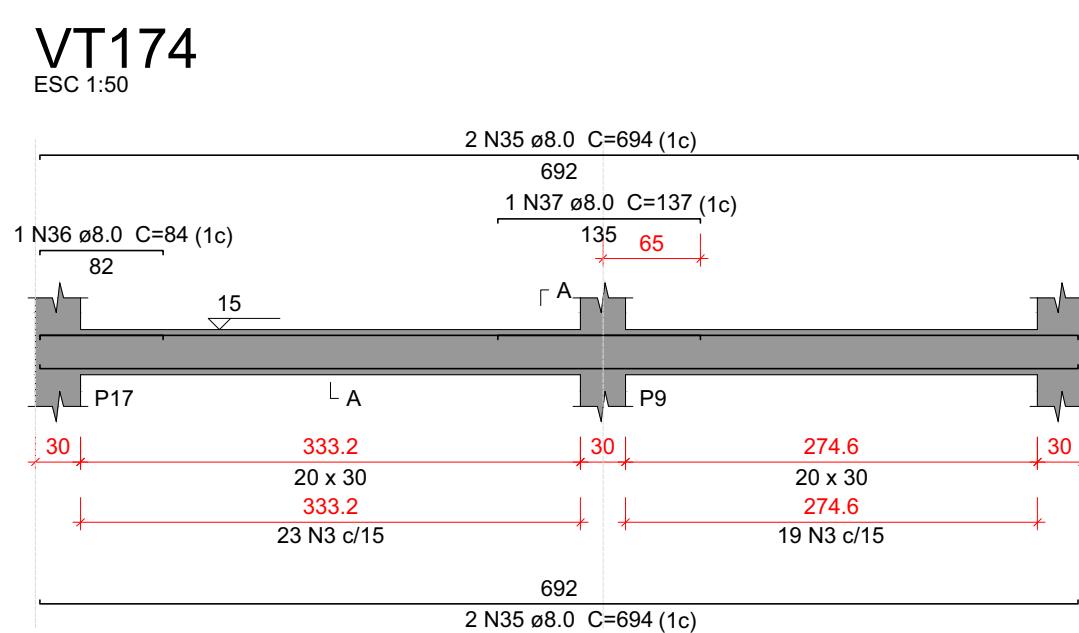
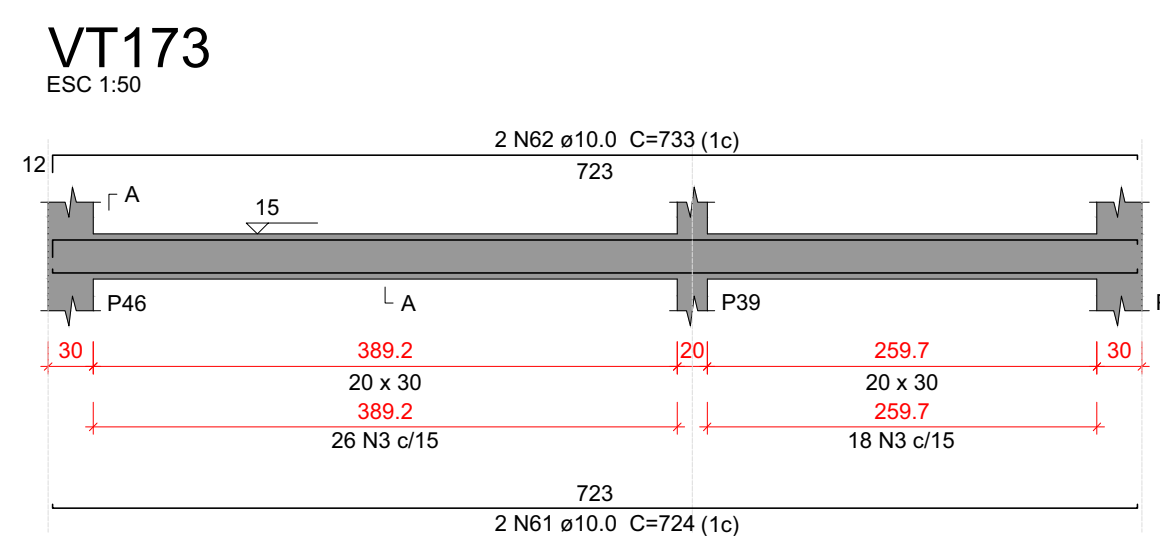
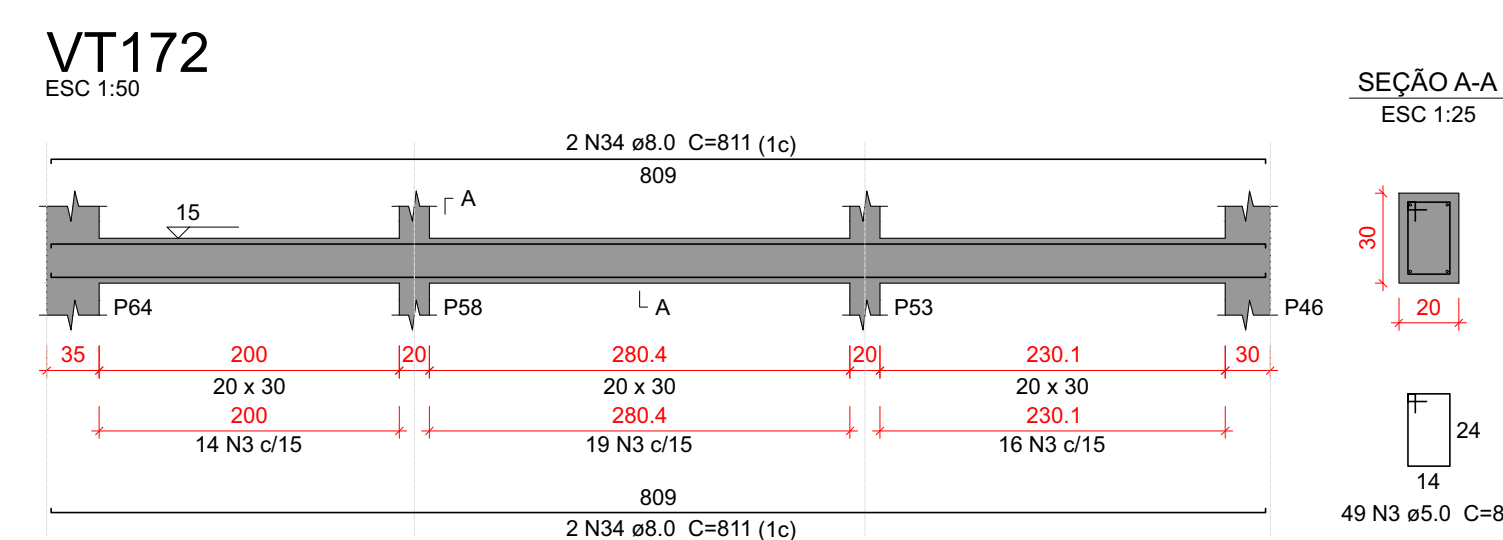
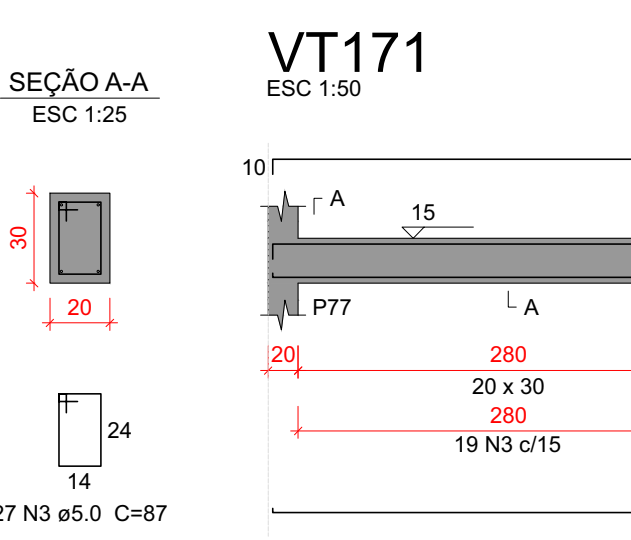
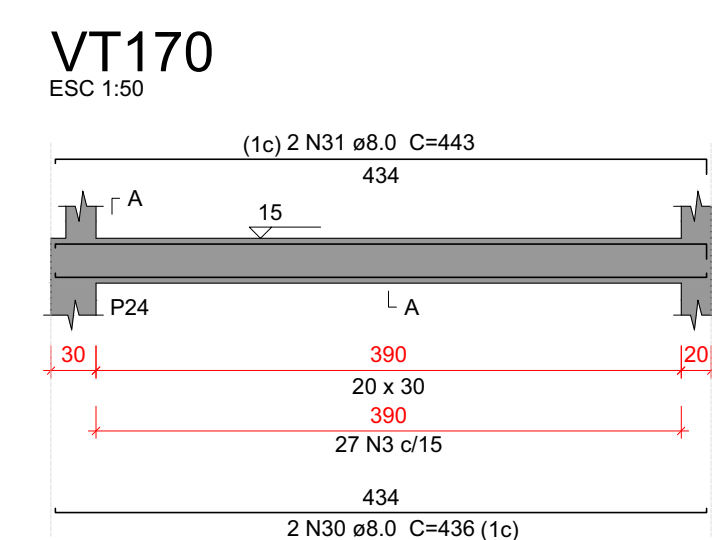
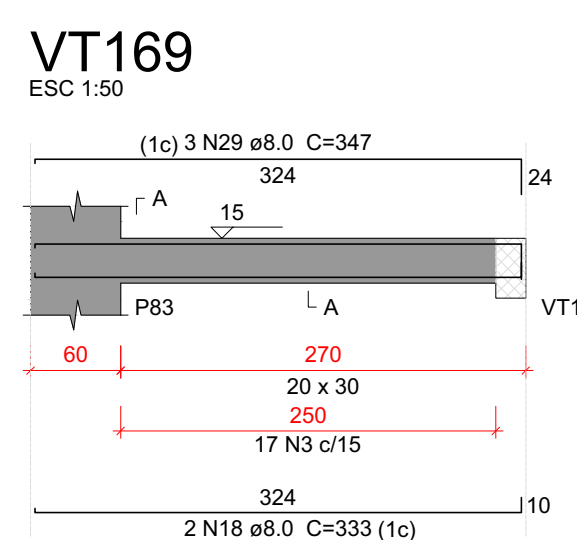
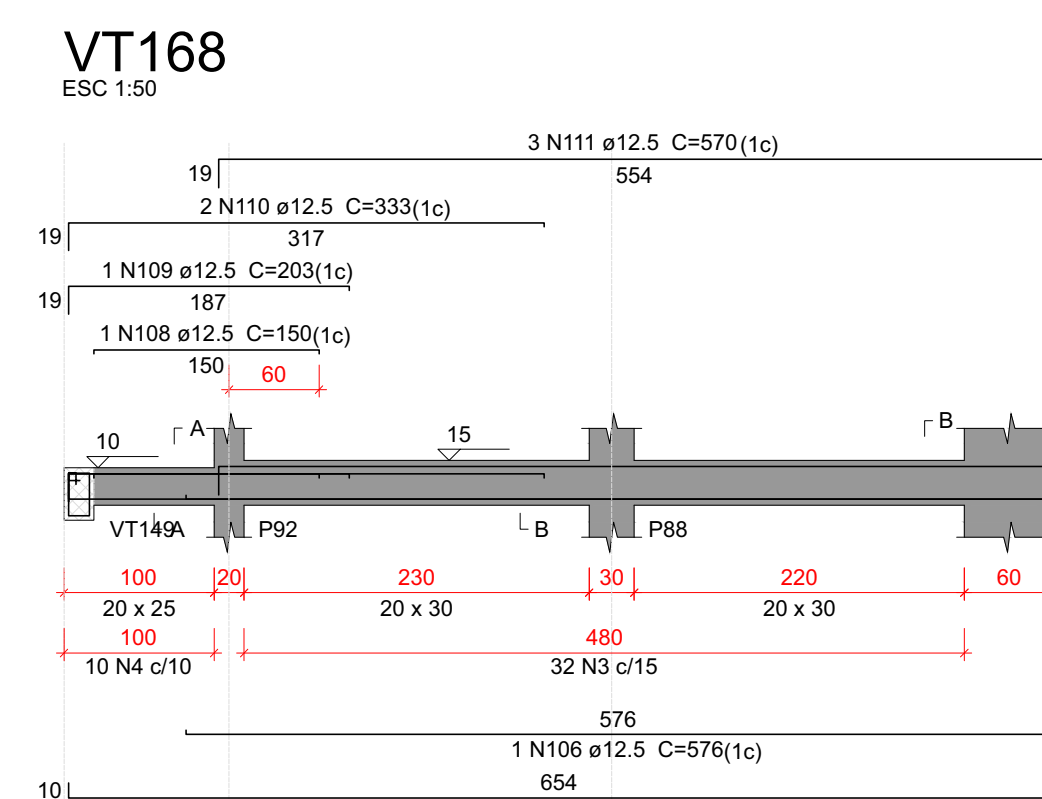
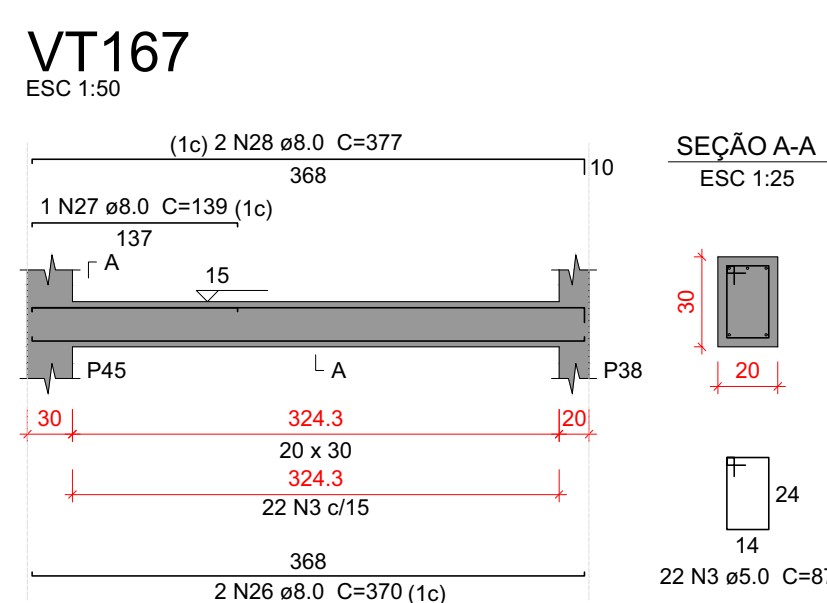
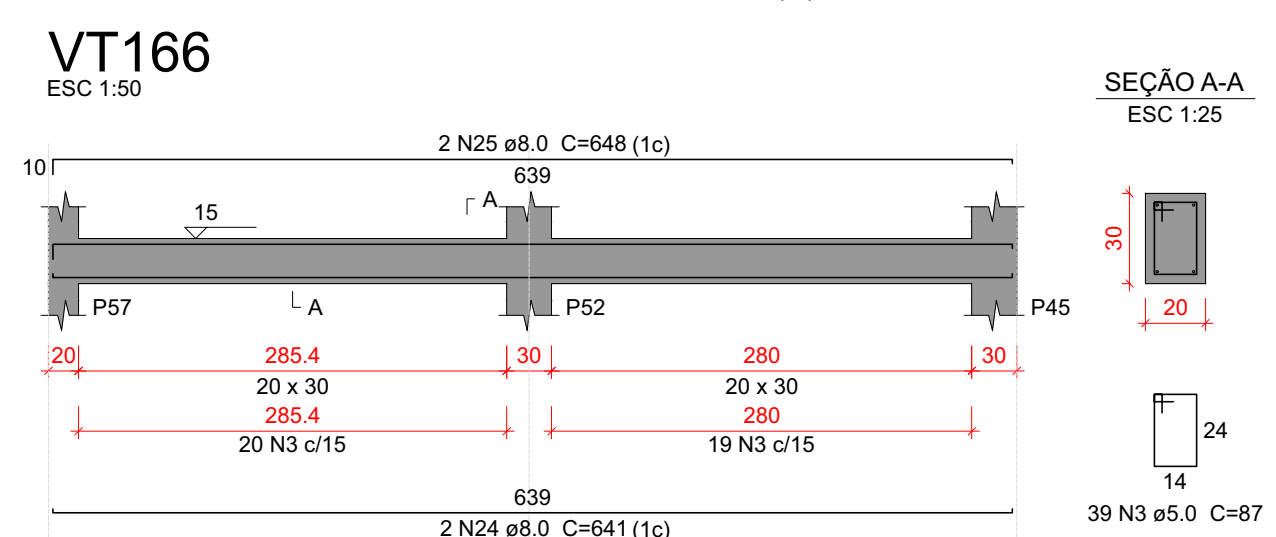
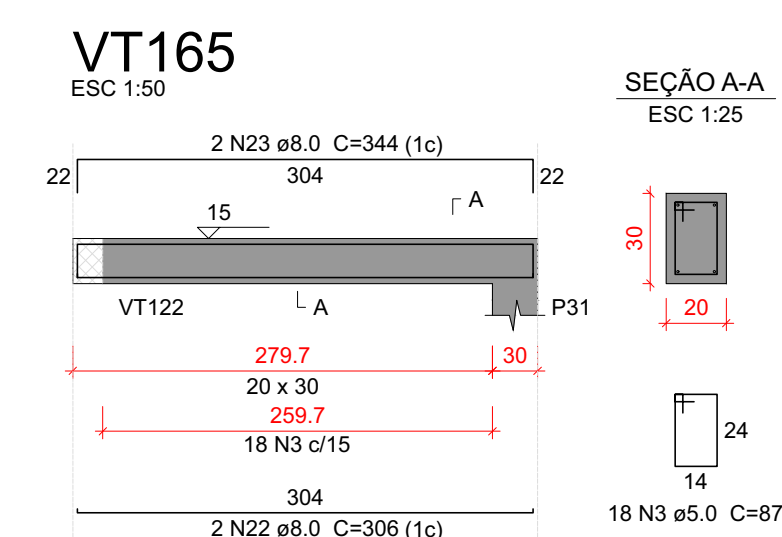
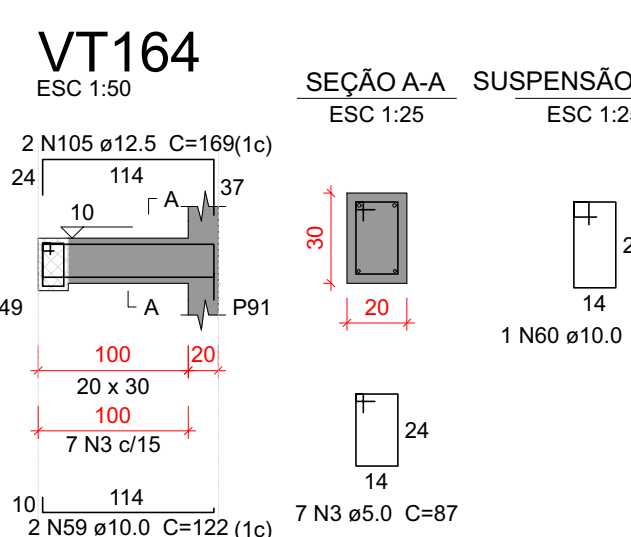
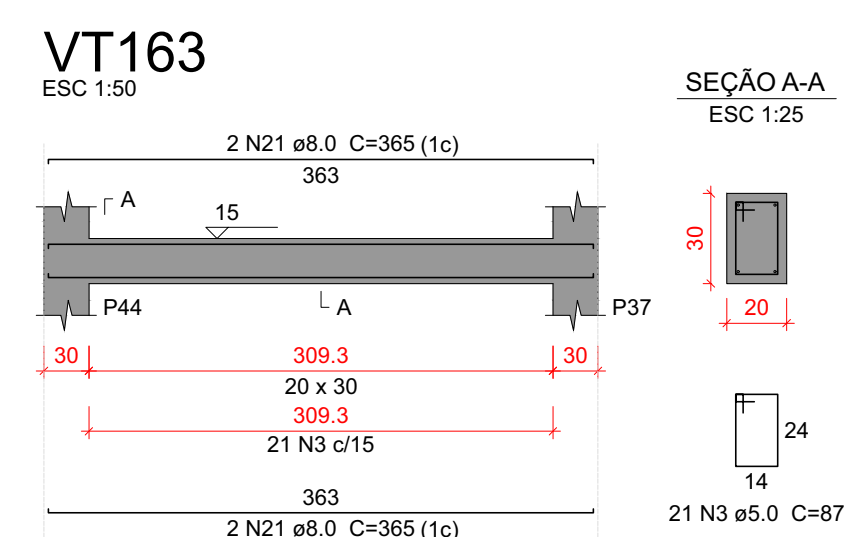
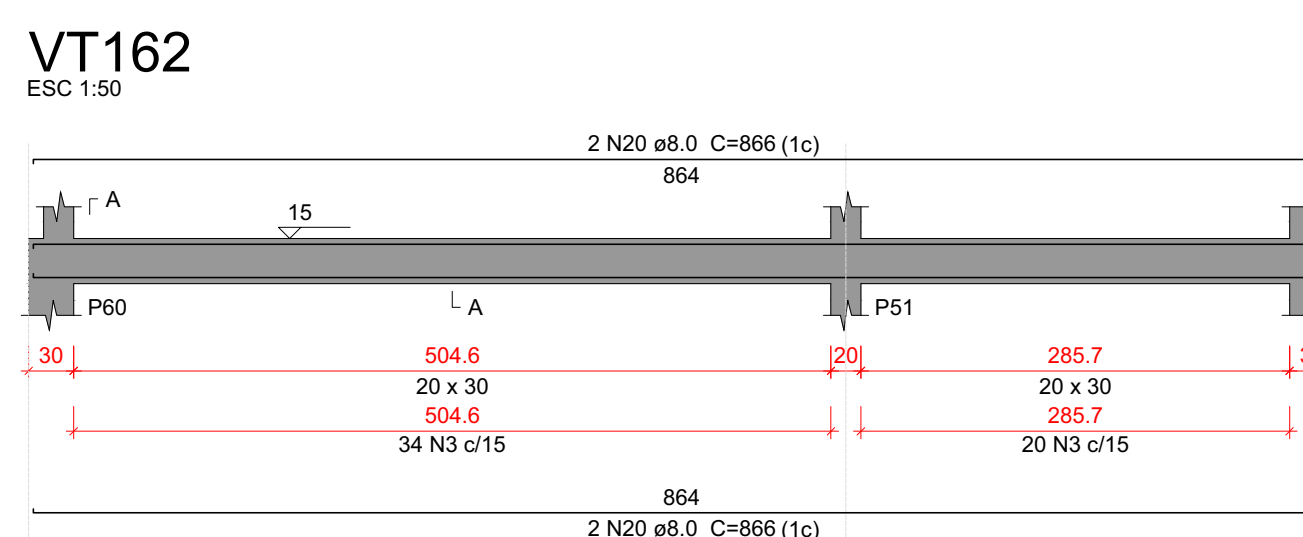
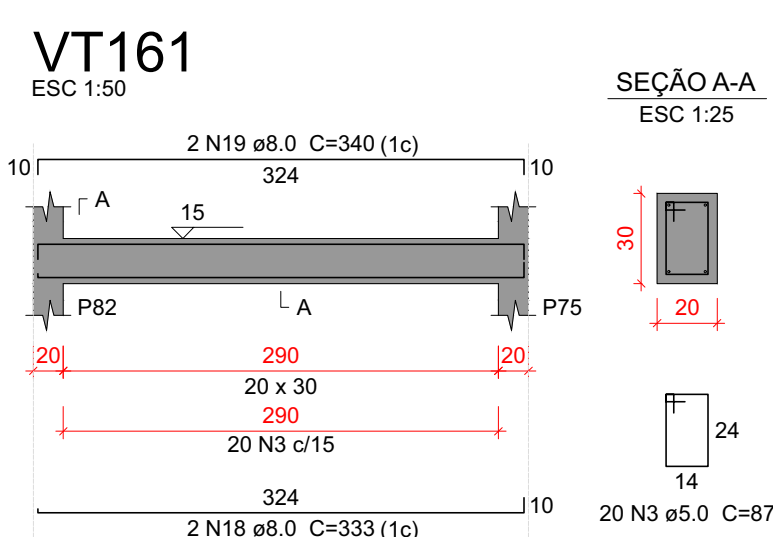
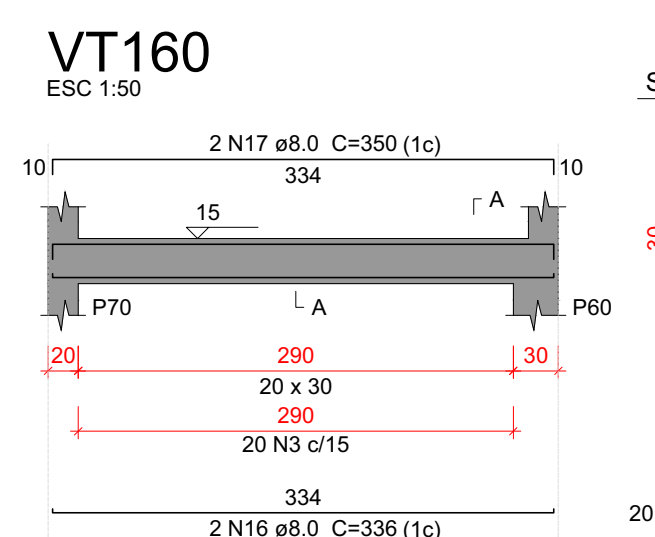
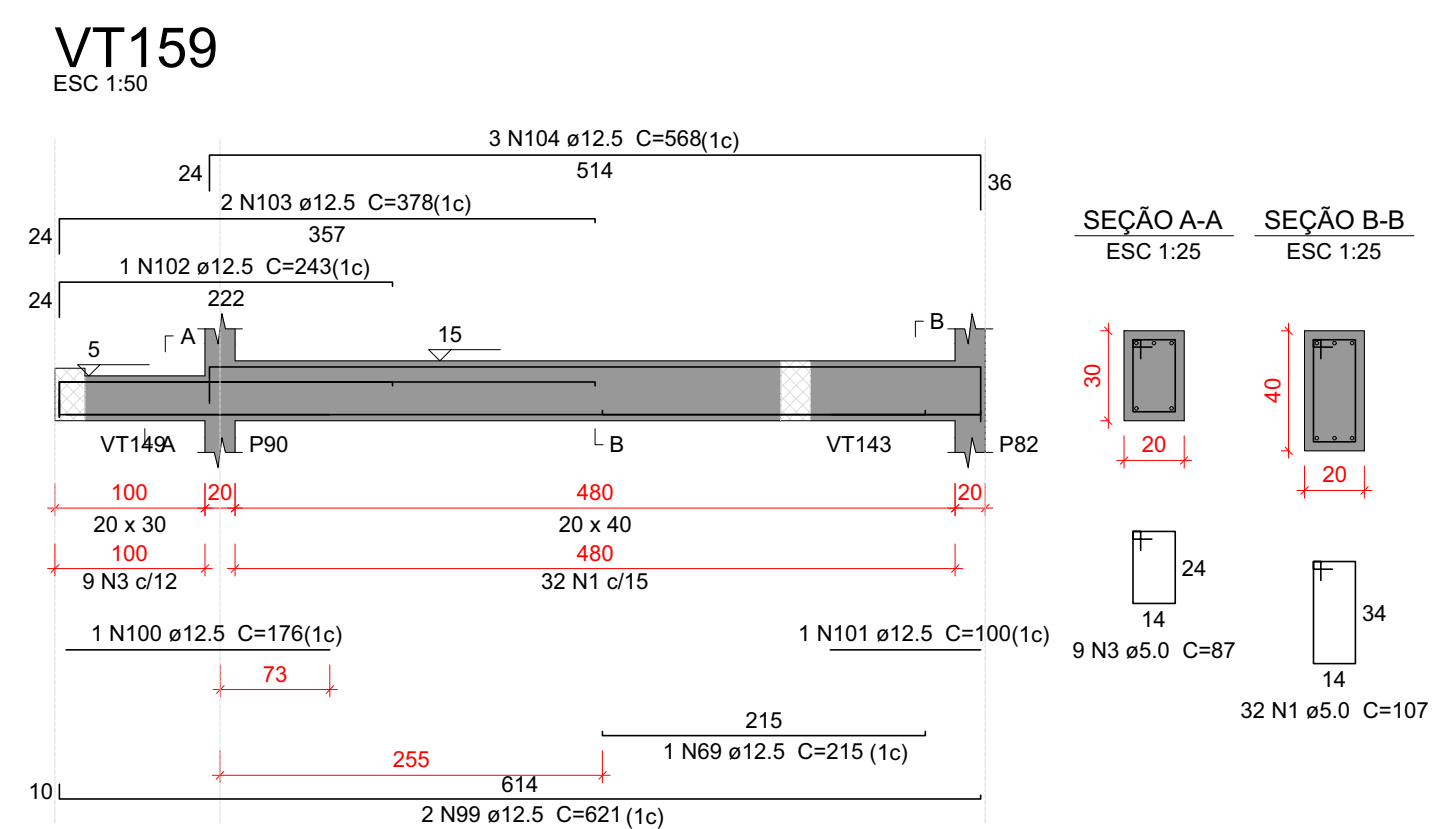
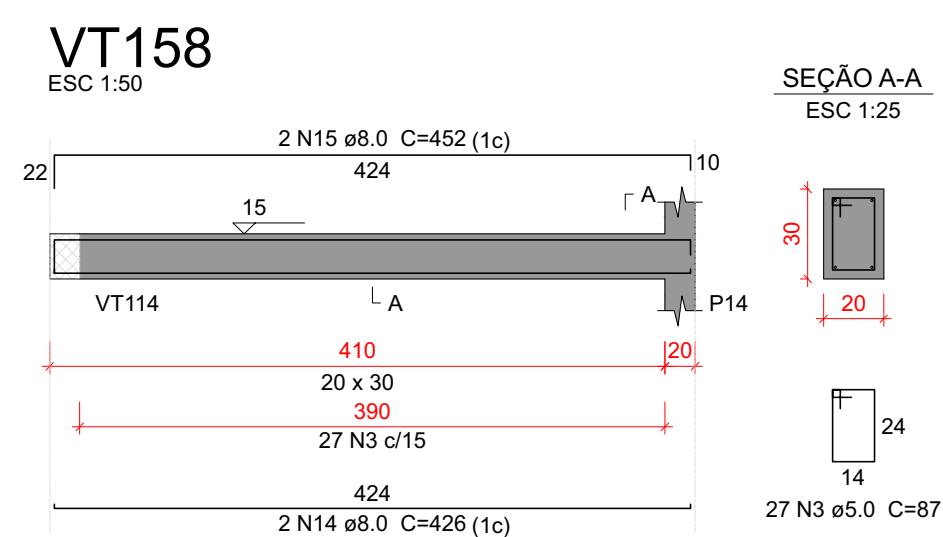
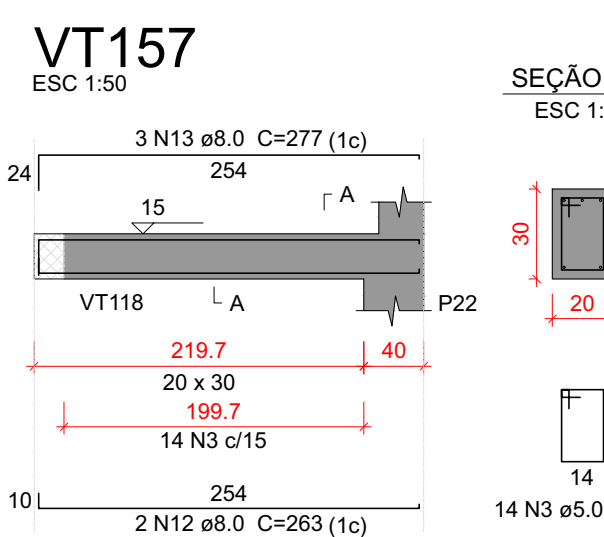
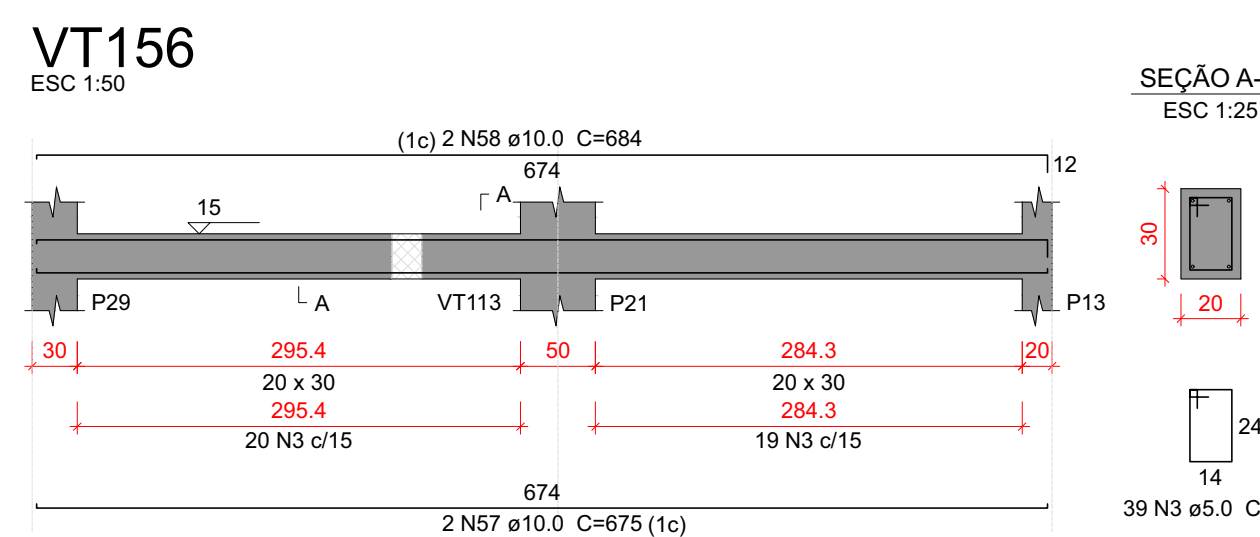
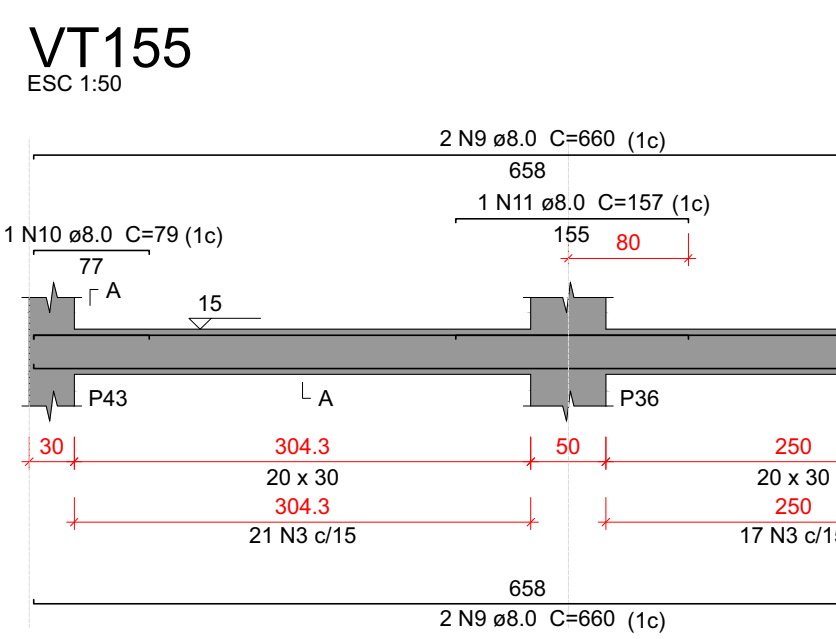
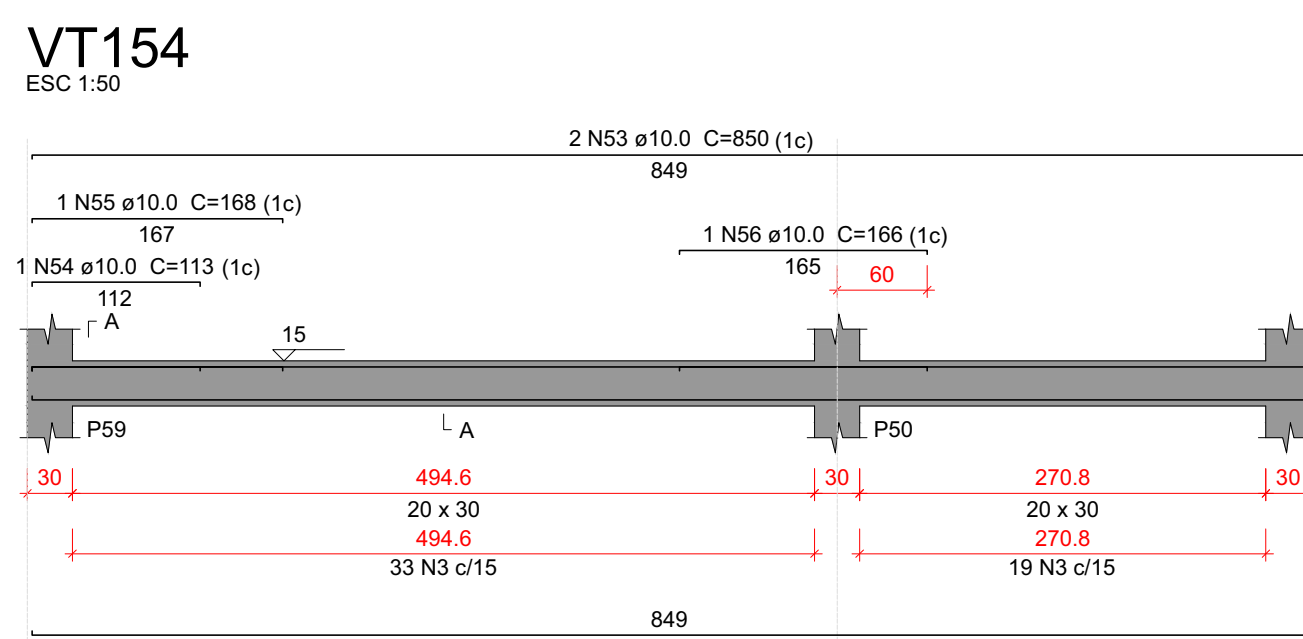
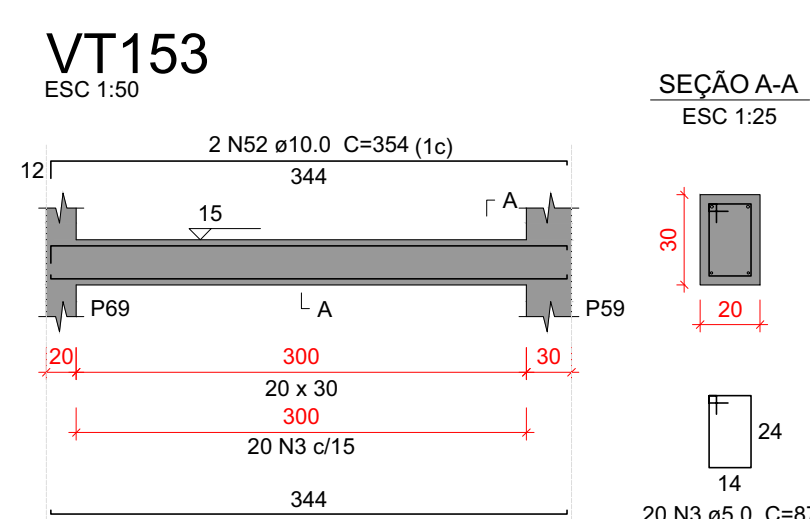
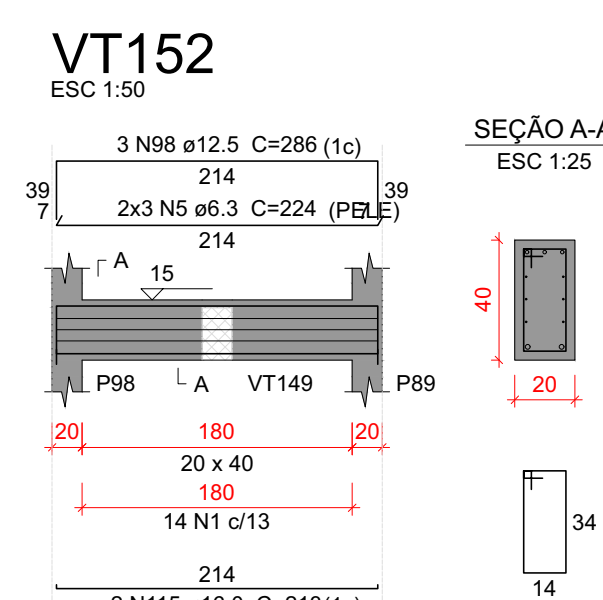
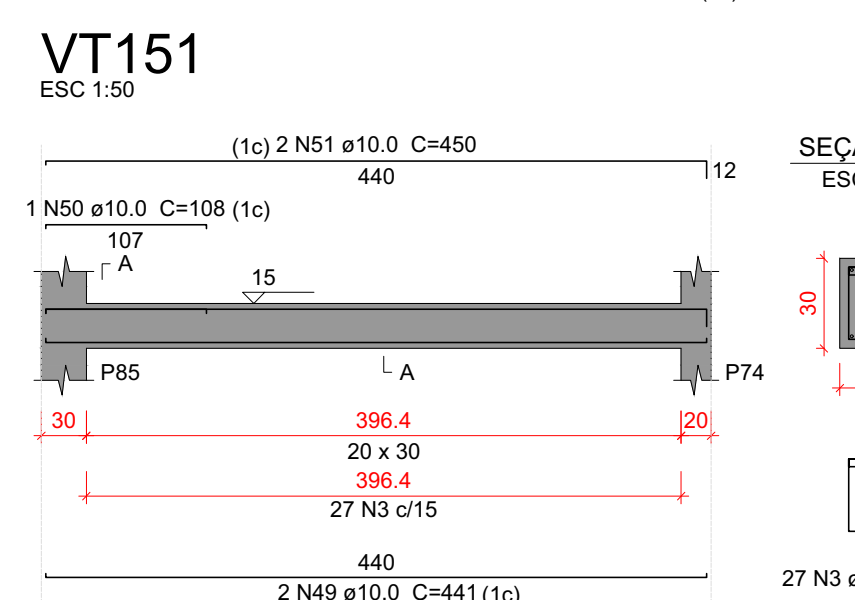
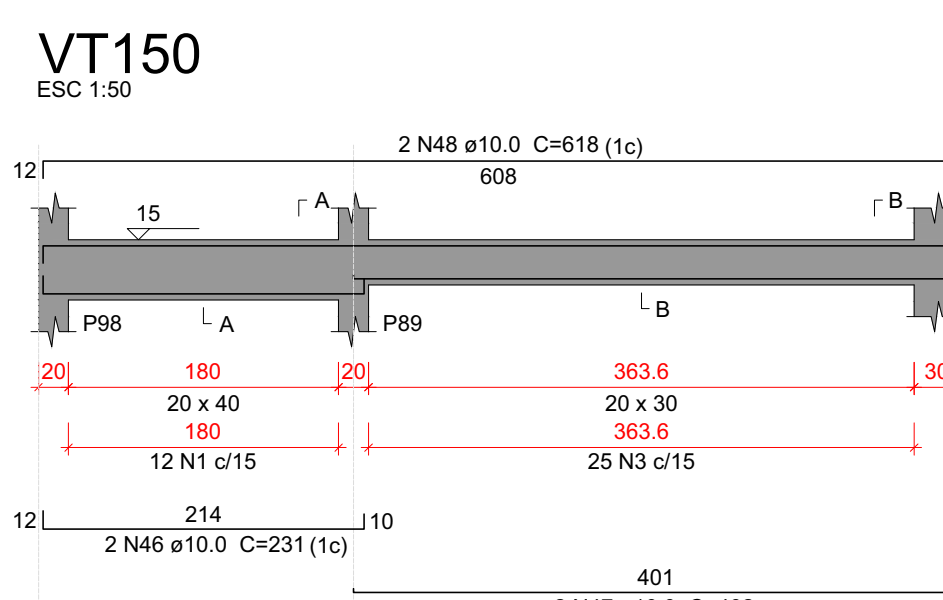
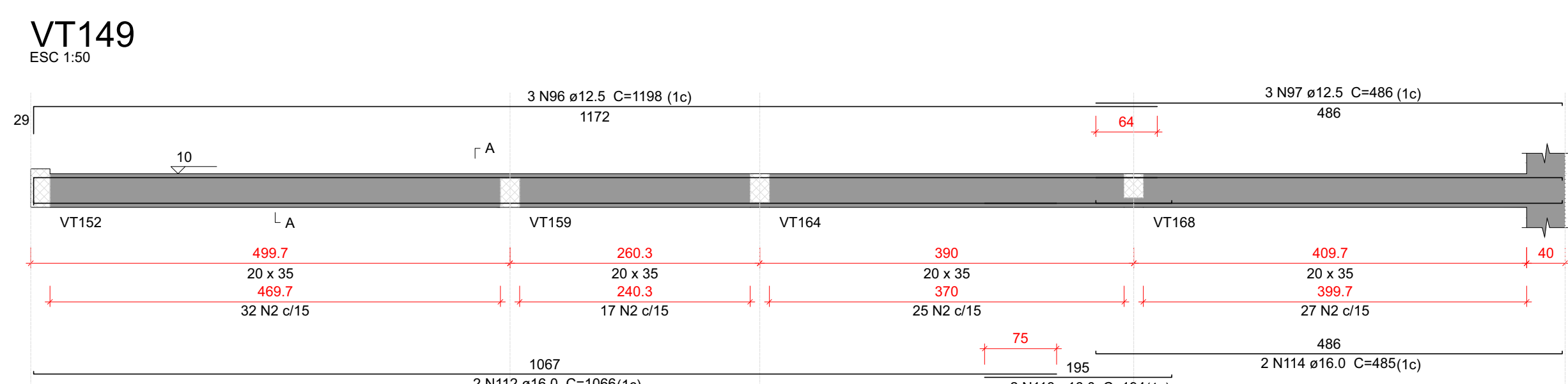
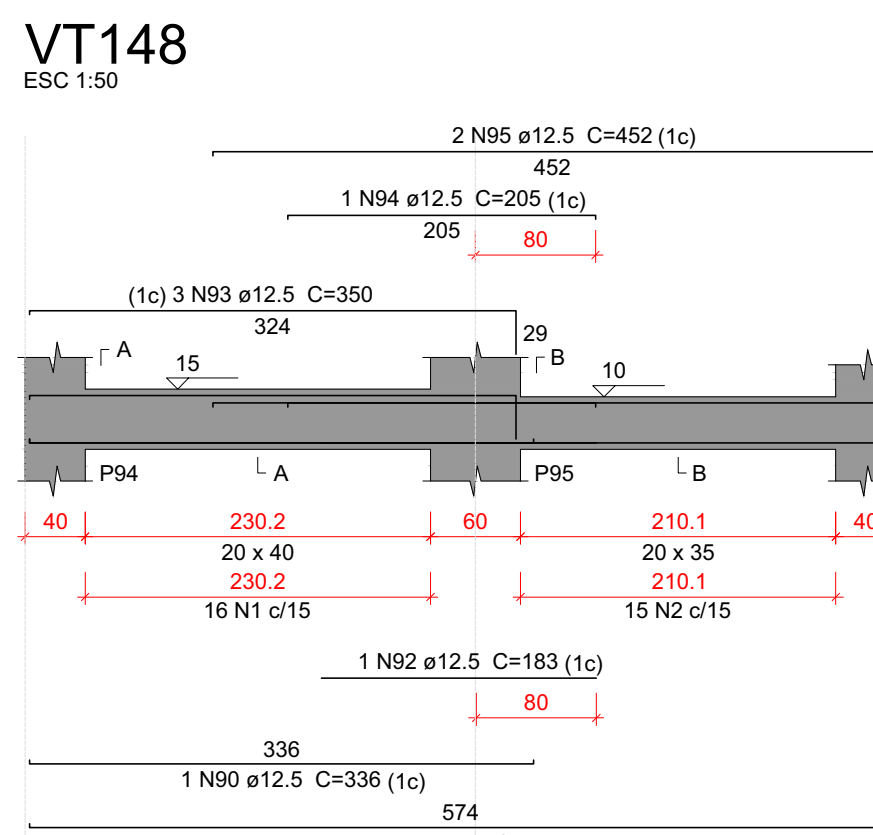
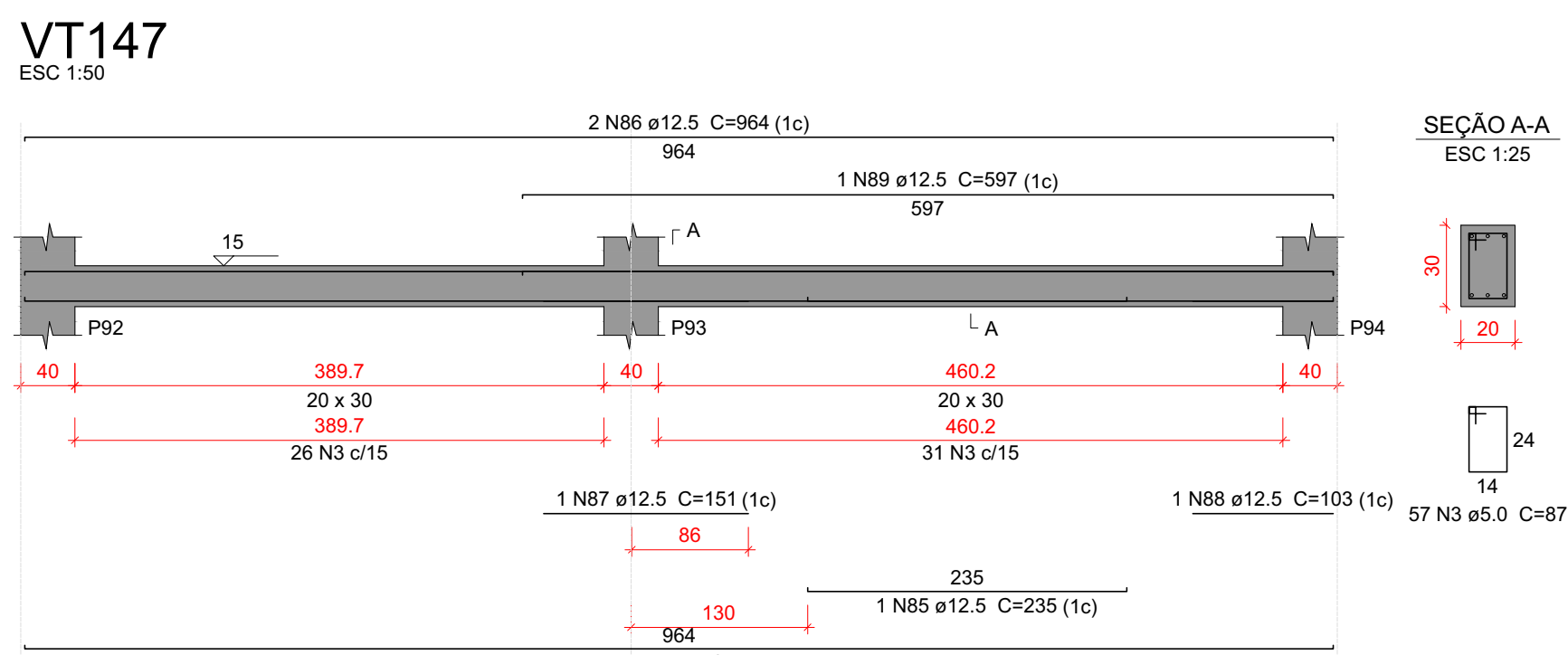
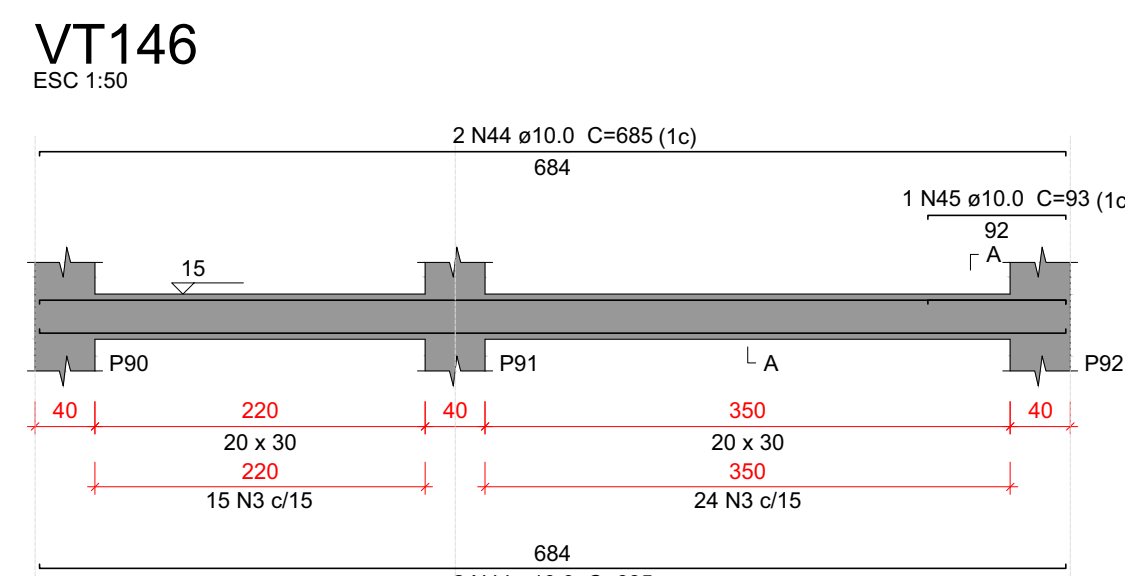
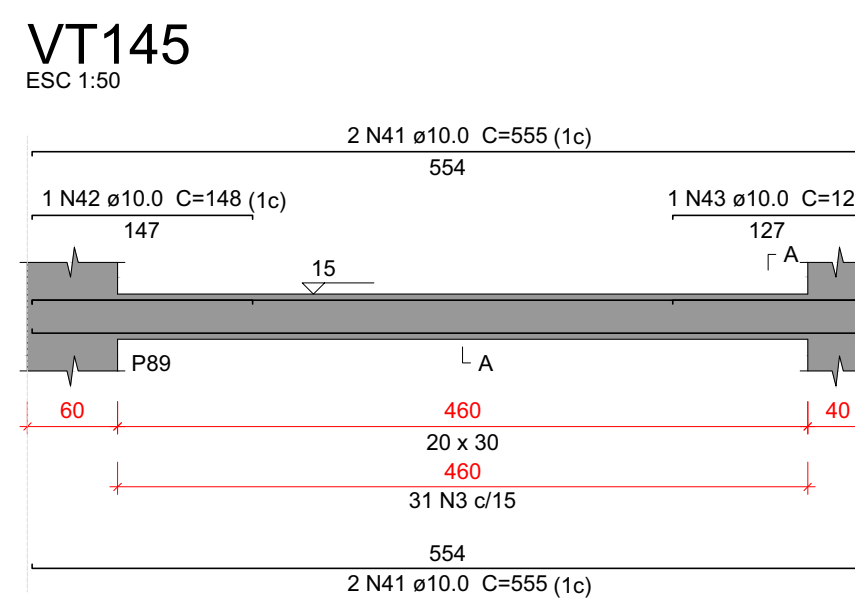
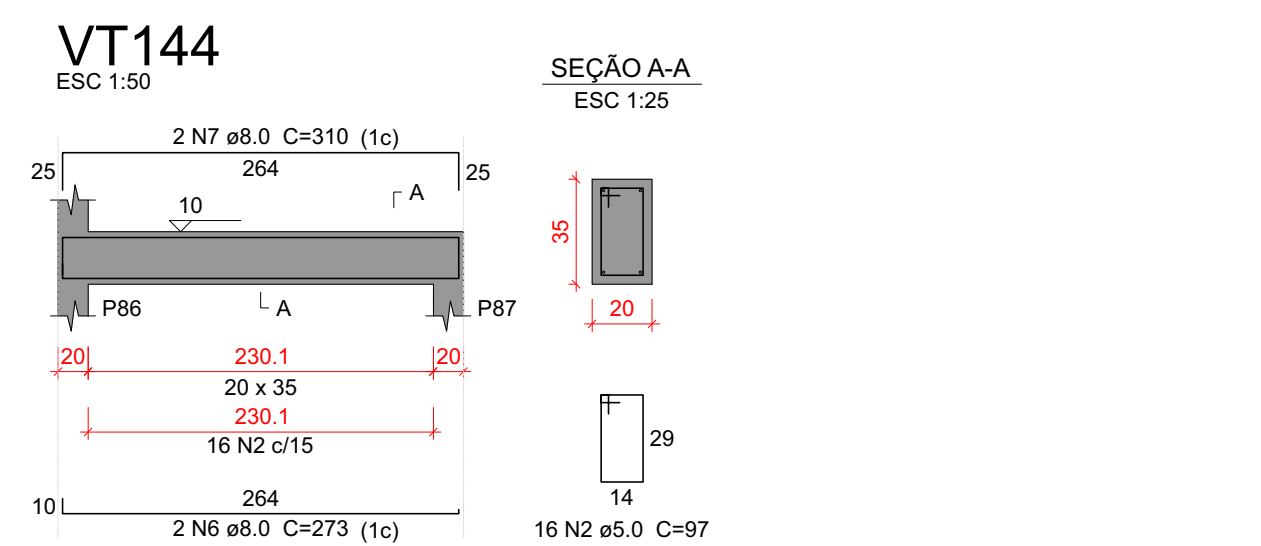
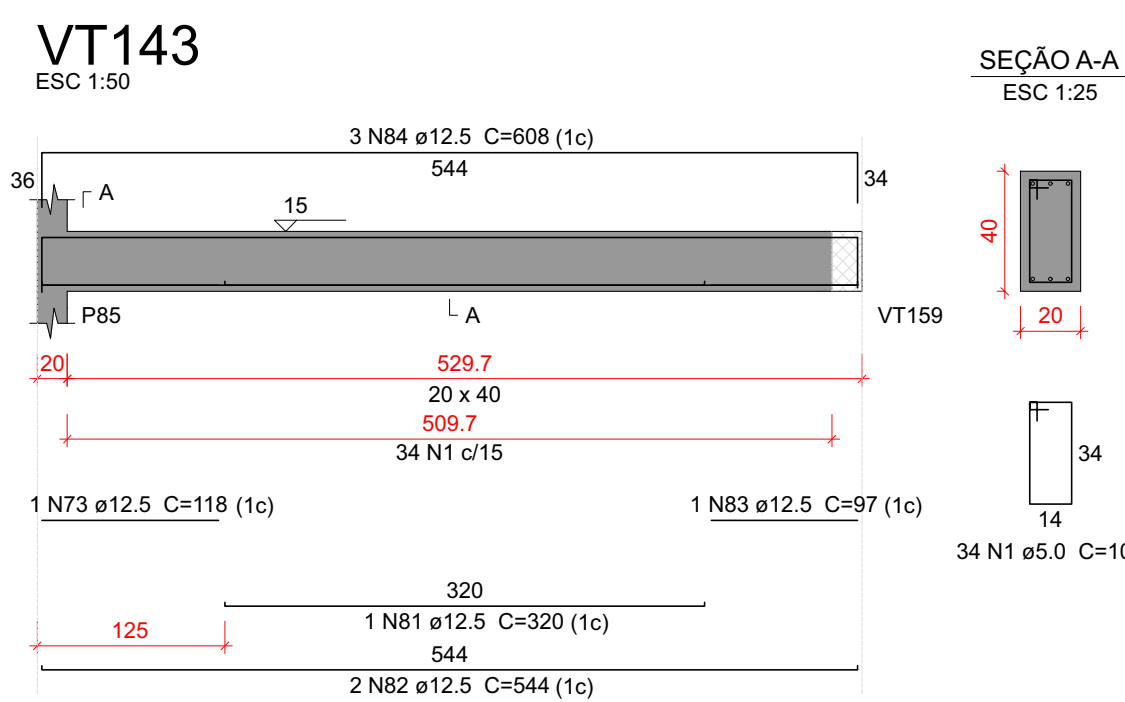
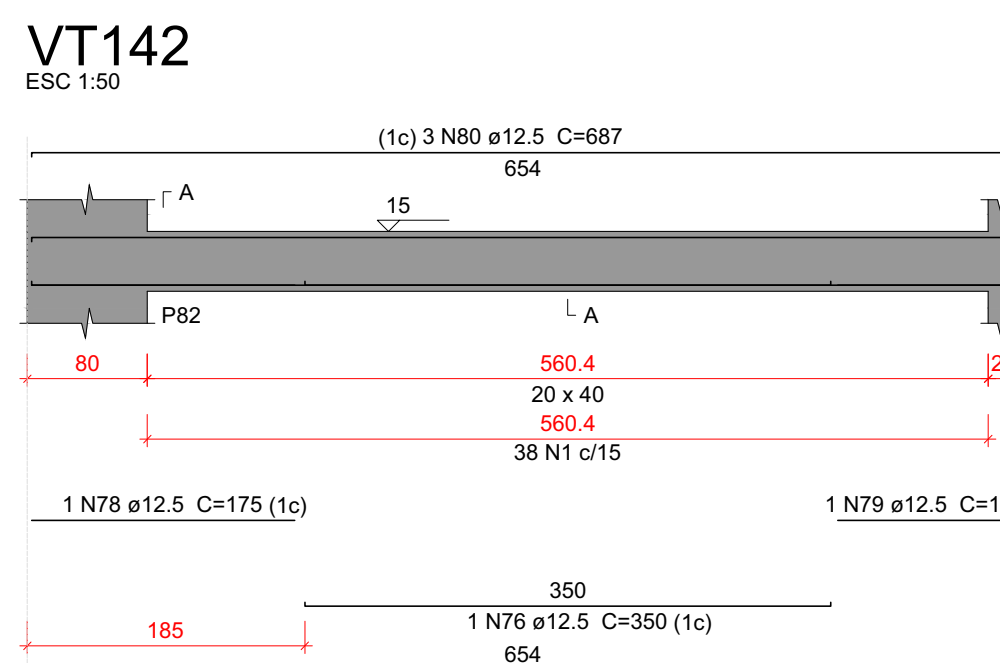
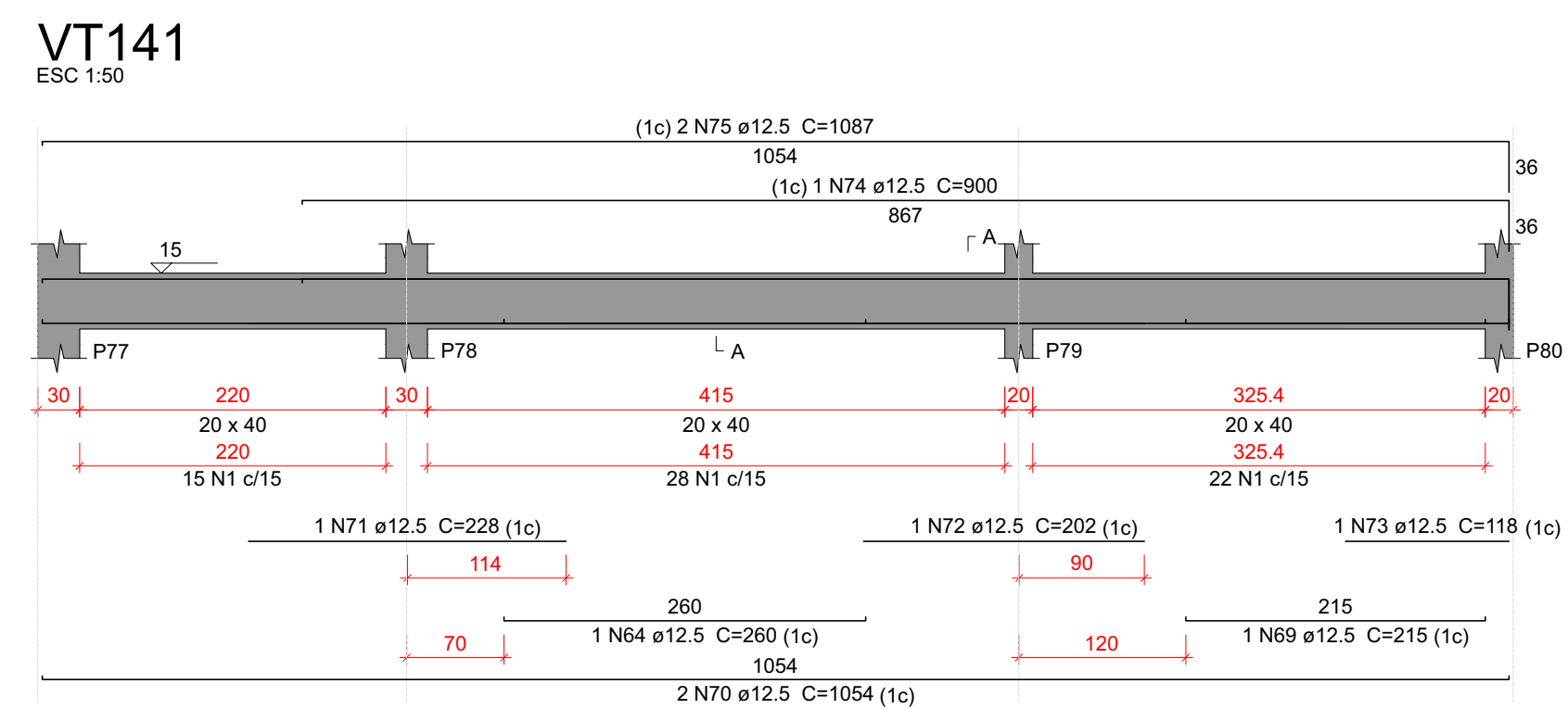
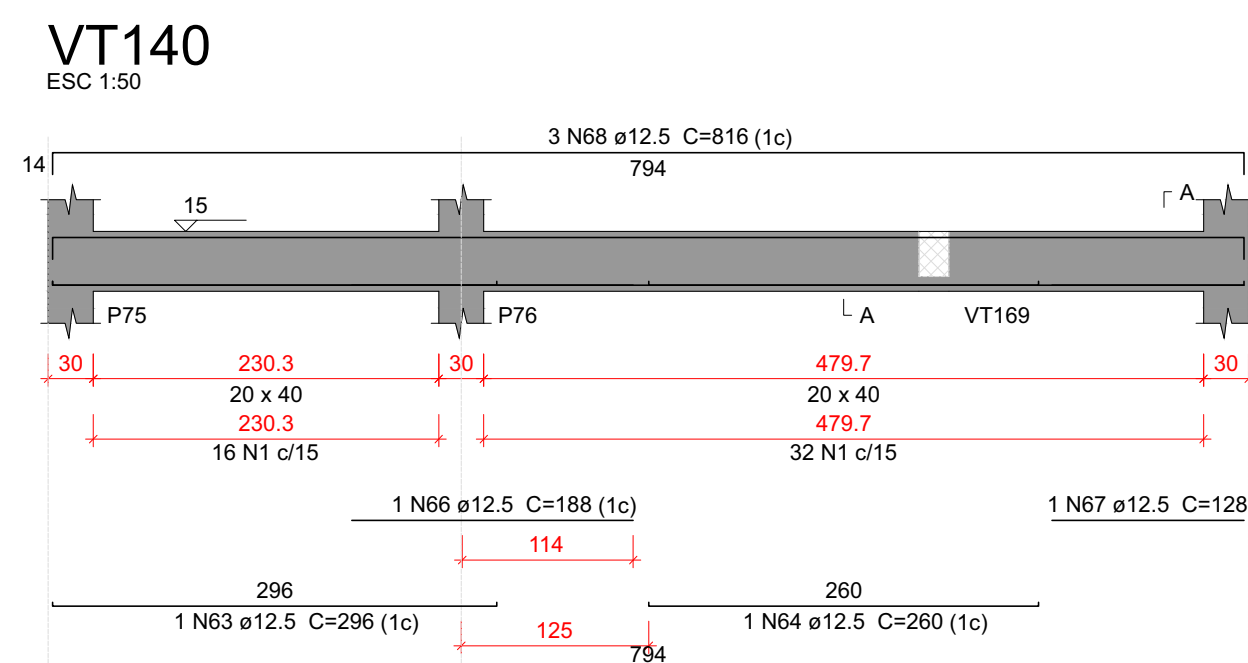




Relação do aço						
VT140		VT141		VT142		
VT143		VT144		VT145		
VT146		VT147		VT148		
VT149		VT150		VT151		
VT152		VT153		VT154		
VT155		VT156		VT157		
VT158		VT159		VT160		
VT161		VT162		VT163		
VT164		VT165		VT166		
VT167		VT168		VT169		
VT170		VT171		VT172		
VT173		VT174		VT175		
AÇO	N	DIAM	QUANT	C.UNIT	C.TOTAL	
CA60	1	5,0	259	107	27.711	
	2	5,0	332	107	35.524	
	3	5,0	883	87	76.913	
	4	5,0	10	77	770	
	5	5,0	224	134	30.016	
	6	6,0	2	273	546	
	7	8,0	2	346	692	
	8	8,0	1	969	969	
	9	8,0	1	79	79	
	10	8,0	1	157	157	
CA50	1	5,0	259	107	27.711	
	2	5,0	332	107	35.524	
	3	5,0	883	87	76.913	
	4	5,0	10	77	770	
	5	5,0	224	134	30.016	
	6	6,0	2	273	546	
	7	8,0	2	346	692	
	8	8,0	1	969	969	
	9	8,0	1	79	79	
	10	8,0	1	157	157	
CA40	1	5,0	259	107	27.711	
	2	5,0	332	107	35.524	
	3	5,0	883	87	76.913	
	4	5,0	10	77	770	
	5	5,0	224	134	30.016	
	6	6,0	2	273	546	
	7	8,0	2	346	692	
	8	8,0	1	969	969	
	9	8,0	1	79	79	
	10	8,0	1	157	157	
CA30	1	5,0	259	107	27.711	
	2	5,0	332	107	35.524	
	3	5,0	883	87	76.913	
	4	5,0	10	77	770	
	5	5,0	224	134	30.016	
	6	6,0	2	273	546	
	7	8,0	2	346	692	
	8	8,0	1	969	969	
	9	8,0	1	79	79	
	10	8,0	1	157	157	
CA20	1	5,0	259	107	27.711	
	2	5,0	332	107	35.524	
	3	5,0	883	87	76.913	
	4	5,0	10	77	770	
	5	5,0	224	134	30.016	
	6	6,0	2	273	546	
	7	8,0	2	346	692	
	8	8,0	1	969	969	
	9	8,0	1	79	79	
	10	8,0	1	157	157	
CA10	1	5,0	259	107	27.711	
	2	5,0	332	107	35.524	
	3	5,0	883	87	76.913	
	4	5,0	10	77	770	
	5	5,0	224	134	30.016	
	6	6,0	2	273	546	
	7	8,0	2	346	692	
	8	8,0	1	969	969	
	9	8,0	1	79	79	
	10	8,0	1	157	157	

		VT140	VT141	VT142	
		VT143	VT144	VT145	
		VT146	VT147	VT148	
		VT149	VT150	VT151	
		VT152	VT153	VT154	
		VT155	VT156	VT157	
		VT158	VT159	VT160	
		VT161	VT162	VT163	
		VT164	VT165	VT166	
		VT167	VT168	VT169	
		VT170	VT171	VT172	
		VT173	VT174	VT175	
CAO	N	DIAM	QUANT	C-UNIT	C-TOTAL
CA80	4	5.0	299	77	2713
	5	5.0	132	97	12804
	6	5.0	63	346	2241
	7	5.0	10	77	70
	8	5.0	10	77	70
	9	8.0	2	273	540
	7	8.0	2	130	260
	9	8.0	4	360	2640
	10	8.0	7	79	79
	11	8.0	1	157	157
	12	8.0	5	263	526
	13	8.0	3	277	831
	14	8.0	2	426	852
	15	8.0	4	360	1440
	16	8.0	2	336	672
	17	8.0	2	336	672
	18	8.0	4	333	1332
	19	8.0	4	360	1440
	20	8.0	4	360	1440
	21	8.0	4	360	1440
	22	8.0	2	336	672
	23	8.0	2	344	688
	24	8.0	2	641	1282
	25	8.0	2	648	1296
	26	8.0	2	370	740
	27	8.0	1	139	139
	28	8.0	2	377	754
	29	8.0	2	436	872
	30	8.0	4	426	1704
	31	8.0	4	426	1704
	32	8.0	2	630	1260
	33	8.0	2	633	1266
	34	8.0	1	817	1634
	35	8.0	2	694	1388
	36	8.0	2	694	1388
	37	8.0	1	117	117
	38	8.0	1	144	144
	40	8.0	2	421	842
	41	8.0	2	550	1100
	42	10.0	1	148	148
	43	10.0	1	128	128
	44	10.0	4	685	2740
	45	10.0	1	93	93
	46	10.0	1	462	924
	47	10.0	2	402	804
	48	10.0	2	410	820
	49	10.0	2	441	882
	50	10.0	1	108	108
	51	10.0	2	108	216
	52	10.0	2	354	708
	53	10.0	2	360	720
	54	10.0	1	113	113
	55	10.0	1	168	168
	56	10.0	1	156	156
	57	10.0	2	675	1350
	58	10.0	2	675	1350
	59	10.0	2	122	244
	60	10.0	2	198	396
	61	10.0	2	724	1448
	62	10.0	2	746	1492
	63	12.5	1	296	296
	64	12.5	2	290	580
	65	12.5	1	794	1588
	66	12.5	1	188	188
	67	12.5	1	216	216
	68	12.5	2	815	1630
	69	12.5	1	1036	2072
	70	12.5	1	228	228
	71	12.5	2	202	404
72	12.5	1	168	336	
73	12.5	2	116	232	
74	12.5	1	900	900	
75	12.5	2	897	1794	
76	12.5	1	350	350	
77	12.5	1	634	634	
78	12.5	1	175	175	
79	12.5	1	117	117	
80	12.5	3	687	2061	
81	12.5	2	320	640	
82	12.5	1	944	1888	
83	12.5	2	57	114	
84	12.5	1	628	1256	
85	12.5	1	235	235	
86	12.5	1	356	356	
87	12.5	1	151	151	
88	12.5	1	103	103	
89	12.5	1	597	597	
90	12.5	1	336	336	
91	12.5	1	100	100	
92	12.5	1	243	243	
93	12.5	1	756	756	
94	12.5	1	568	1136	
95	12.5	1	1805	1805	
96	12.5	1	205	205	
97	12.5	2	452	904	
98	12.5	2	452	904	
99	12.5	2	452	904	
100	12.5	2	452	904	
101	12.5	1	176	176	
102	12.5	1	176	176	
103	12.5	1	100	100	
104	12.5	1	263	263	
105	12.5	1	756	756	
106	12.5	1	548	1096	
107	12.5	1	338	676	
108	12.5	1	576	576	
109	12.5	2	681	1362	
110	12.5	1	150	150	
111	12.5	1	203	203	
112	12.5	1	666	666	
113	12.5	1	333	333	
114	16.0	2	194	388	
115	16.0	2	485	970	
116	16.0	2	485	970	
117	16.0	2	485	970	

PREFEITURA MUNICIPAL DE ROSÁRIO DO SUL APROVADO Rosário do Sul, <u>30/08/2025</u> <i>Thaynã Nunes</i> DEPARTAMENTO DE ENGENHARIA	
	
PREFEITURA MUNICIPAL DE ROSÁRIO DO SUL ESTADO DO RIO GRANDE DO SUL – BRASIL SECRETARIA MUNICIPAL DE OBRAS, VIAGEM, TRÂNSITO E TRANSPORTE DEPARTAMENTO DE ENGENHARIA	
UNIDADE BÁSICA DE SAÚDE - PORTE 4	
Endereço: Rua Colômbia - S/N - Bairro: Artidor Ortiz	
Responsável Técnico:	Proprietário
Gleber Clairton Severo Machado CAU: A29825-5 CPF: 610.410.170-49 Marcos Paulo Silva da Luz Prefeito Municipal de Rosário do Sul	

Características do Projeto		5 – OS VENTOS INCIDENTES NAS FACES X (90°) E Y (0°), RESPECTIVAMENTE, NÃO OCORREM SIMULTANEAMENTE.		LEGENDA DA PLANTA DE LOCAÇÃO				PROJETO ESTRUTURAL			
1 – COBRIMENTO DAS ARMADURAS – PILARES E VIGAS: 3 cm 2 – COBRIMENTO DAS ARMADURAS – LAJES E ESCADAS: 3 cm 3 – COBRIMENTO DAS ARMADURAS – FUNDAÇÃO: 4,5 cm 4– PREVER LASTRO DE CONCRETO MAGRO (5 cm) SOB AS ESTRUTURAS EM CONCRETO.				A ORIENTAÇÃO DOS EIXOS DOS PILARES 1 ORIENTAÇÃO DOS EIXOS DOS PILARES							
NOTAS 1 : DURABILIDADE		NOTAS 2 : NORMAS		NOTAS 3 : GERAIS				23			
1 – CLASSE DE AGRESSIVIDADE AMBIENTAL: II 2 – MÓDULO DE ELASTICIDADE > 35,42 GPa 3 – FATOR A/C < 0,4 4 – AÇO CA 50A e CA 60B 5 – CONCRETO CLASSE > 30 MPa 6 – CONSUMO DE CIMENTO > 341,350 Kg/m³		– NBR 06118 – 2023 – Projeto de Estruturas de Concreto armado – NBR 06120 – 2019 – Cargas para o Cálculo de Estruturas de Edificações – Procedimento – NBR 06123 – 2023 – Forças Devidas ao Vento em Edificações – NBR 8681 – 2003 – Ações e Segurança nas Estruturas – NBR 6122 – 2022 – Projeto e execução de Fundações		1 – Dimensões em Centímetros e Níveis em metros 2 – Conferir as disposições das armaduras antes do concretagem. 3 – A Responsabilidade pela fiscalização do obra é do Engº resp Técnico. 4 – Aconselhamos montagem de corpos de prova para cada contêiner betoneira. 5 – Respeitar os prazos mínimos para retirada de formas e escoramentos. 6 – Evitar romper concreto após endurecido, com marreta e talhoadeira. 7 – Toda e qualquer alteração no respectivo projeto, o Calculista deverá ser consultado e o mesmo deverá emitir seu parecer por escrito.							