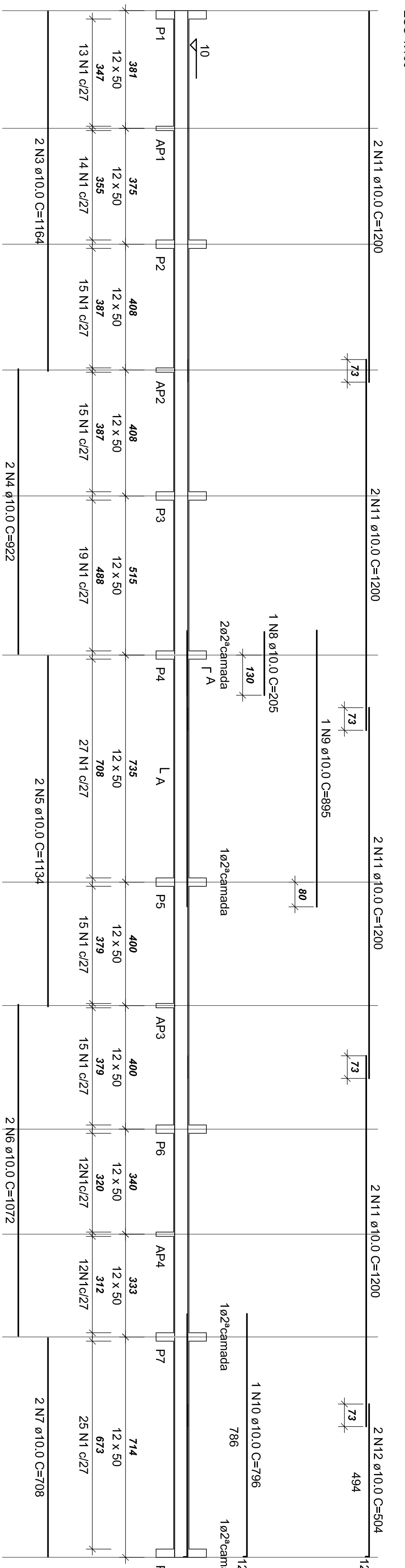
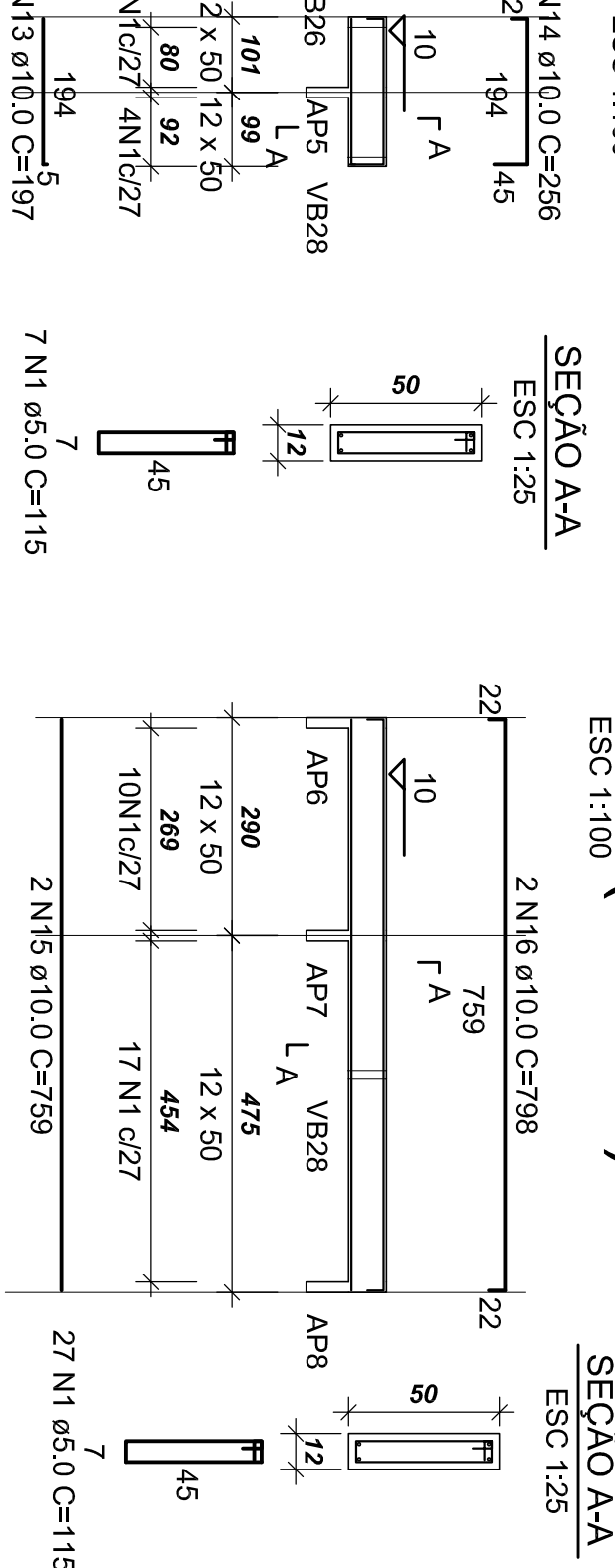


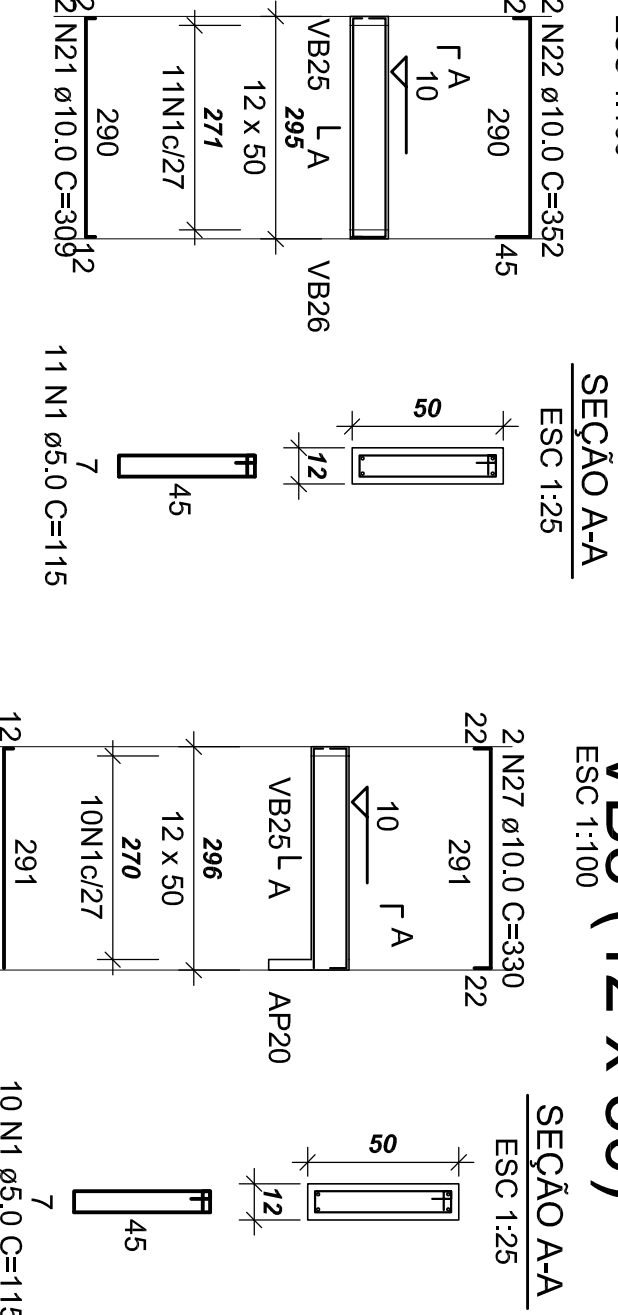
VB1 (12 x 50)



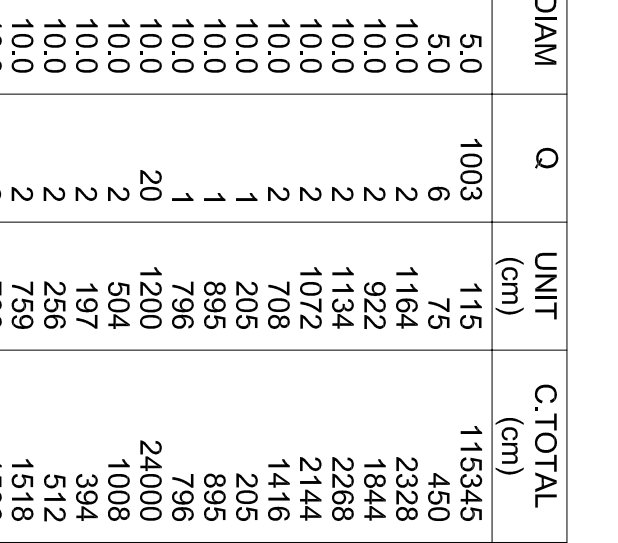
VB2 (12 x 50)



VB3 (12 x 50)



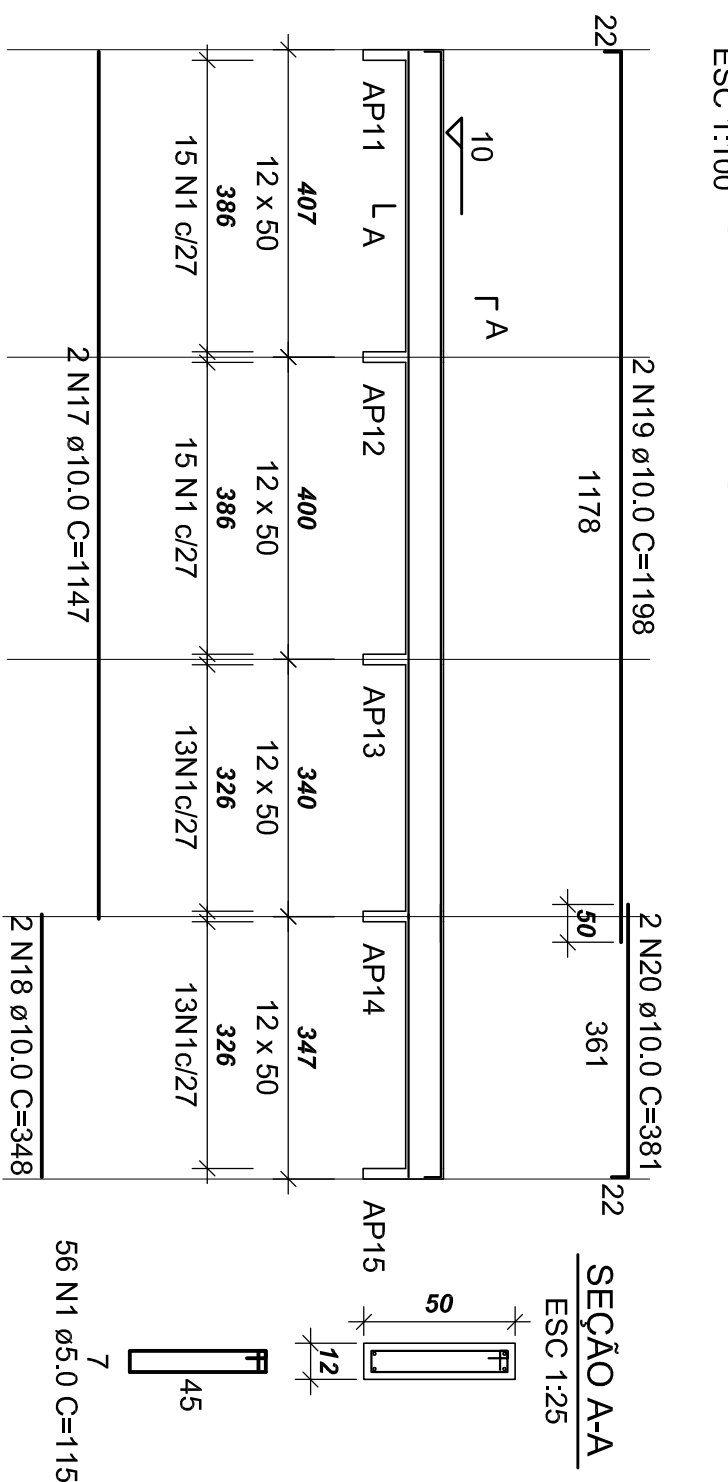
VB5 (12 x 50)



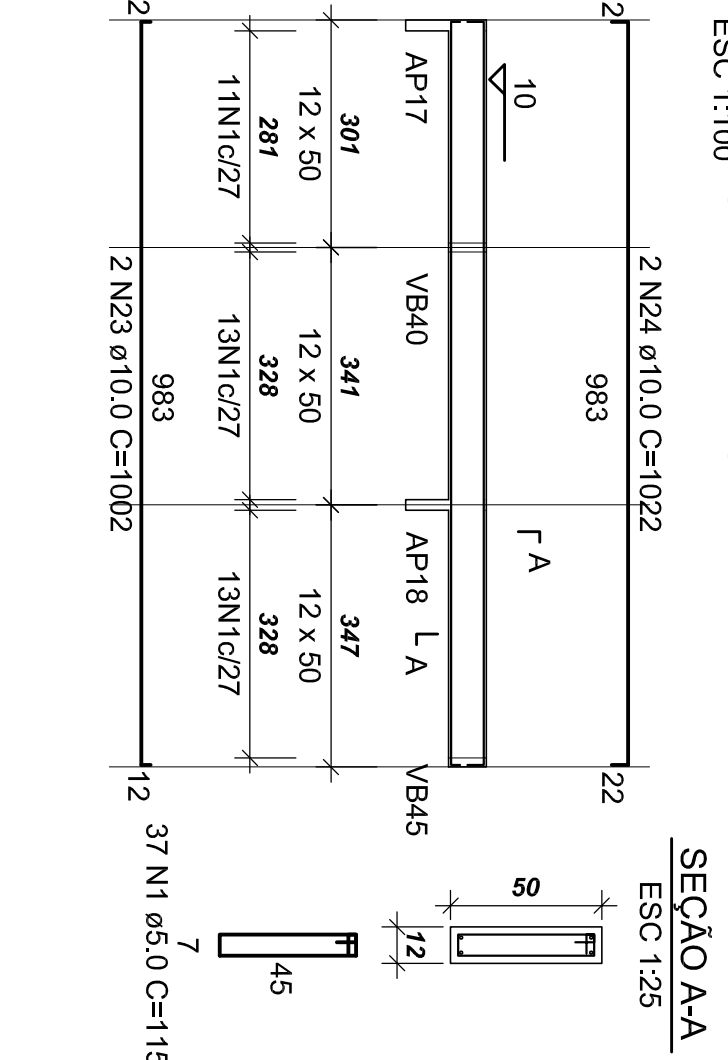
VB8 (12 x 50)



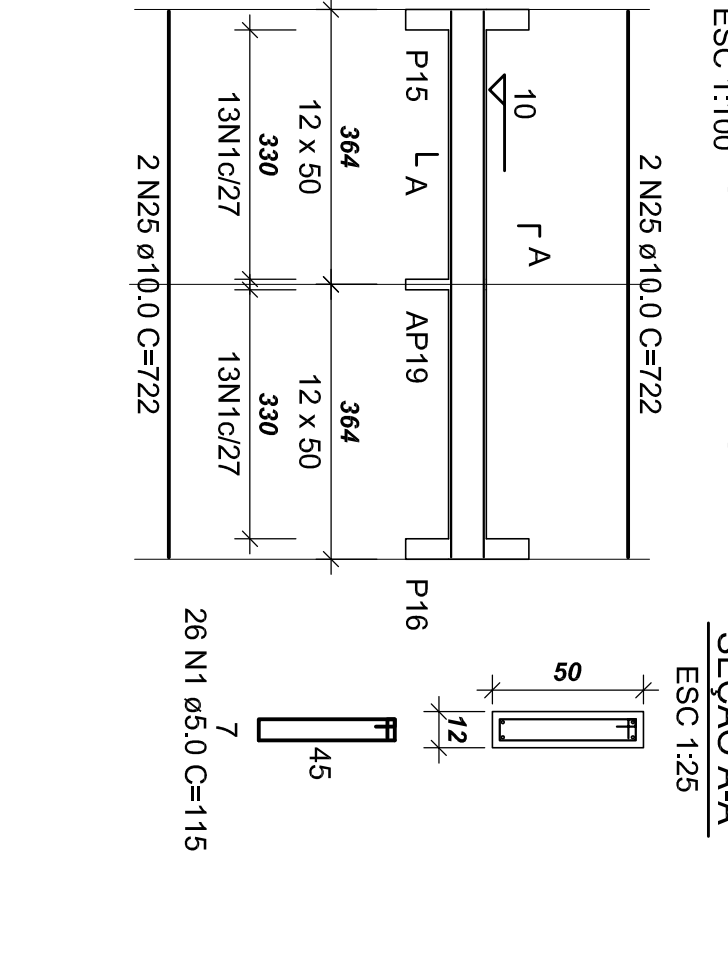
VB4 (12 x 50)



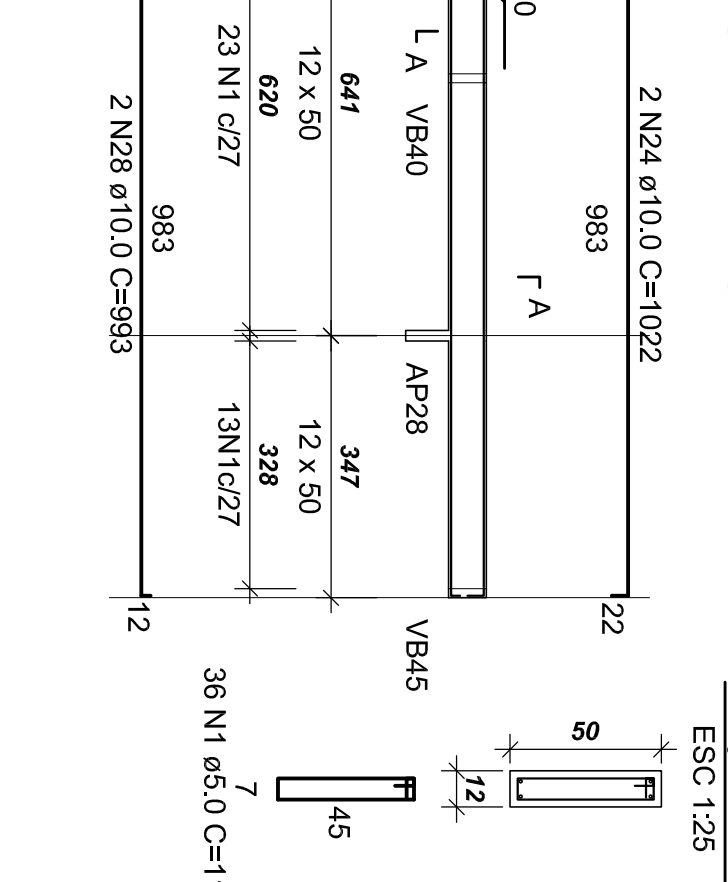
VB6 (12 x 50)



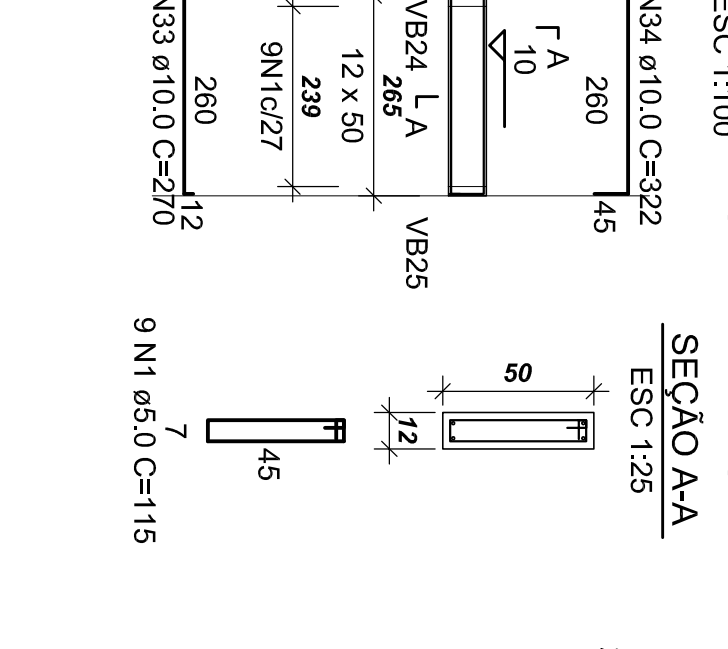
VB7 (12 x 50)



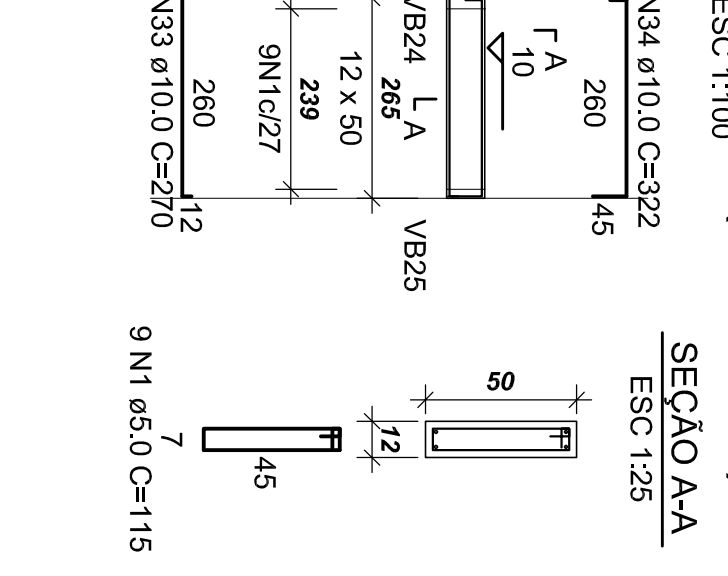
VB9 (12 x 50)



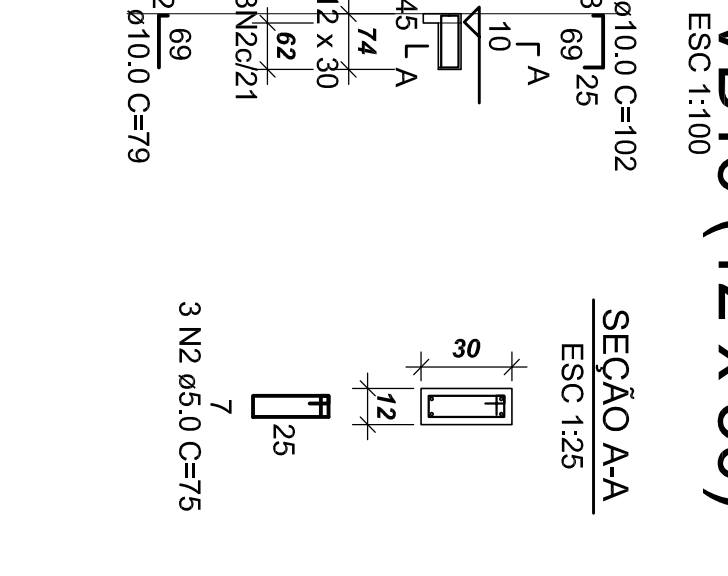
VB11 (12 x 50)



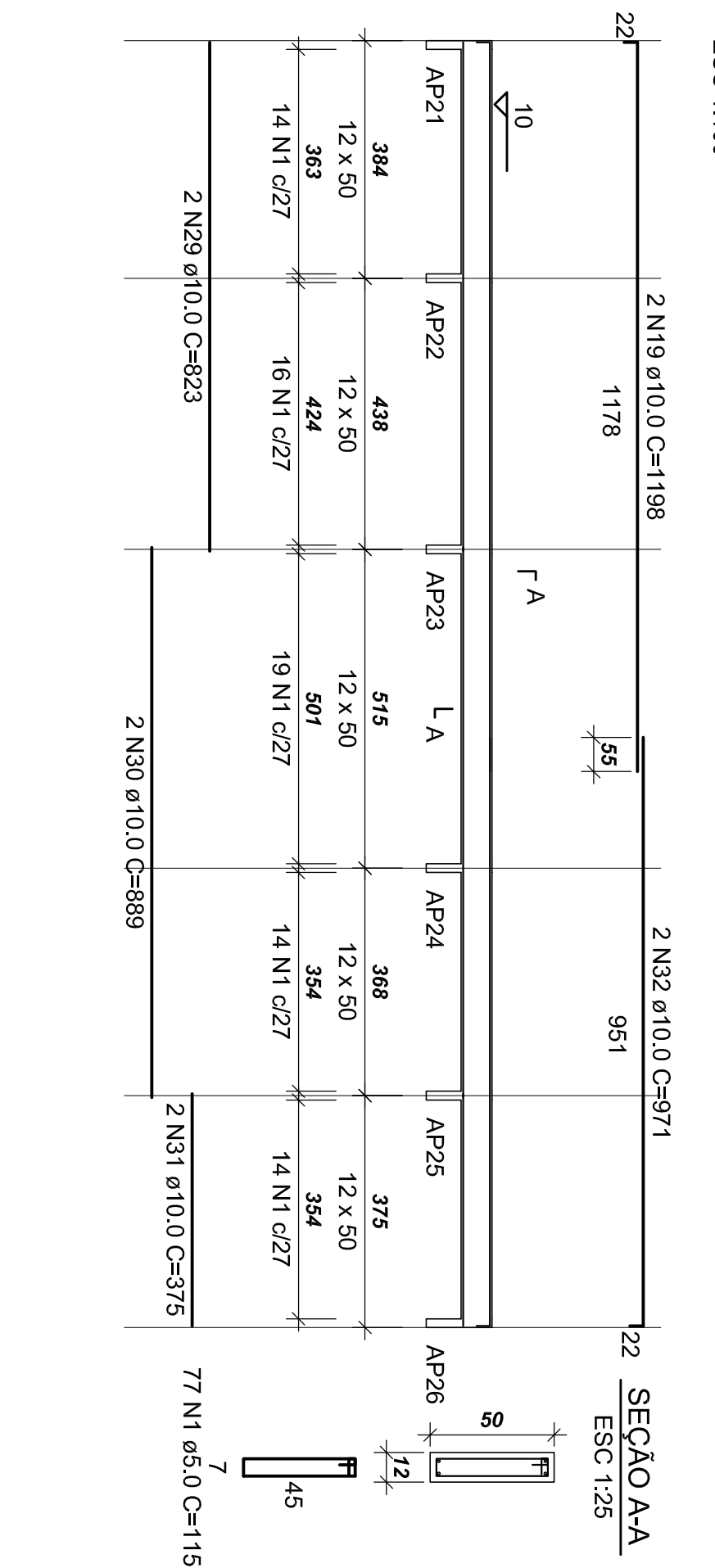
VB13 (12 x 50)



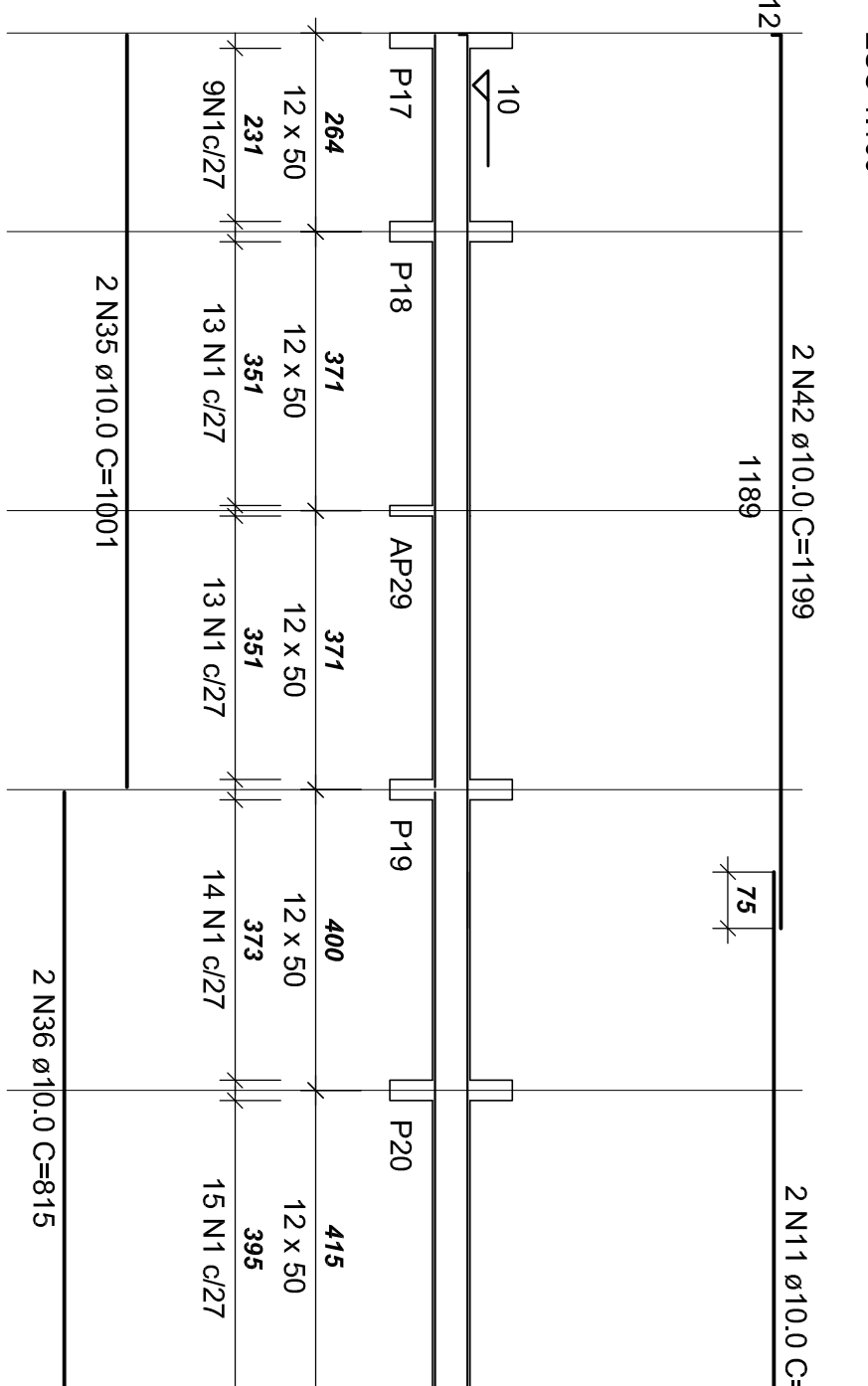
VB16 (12 x 30)



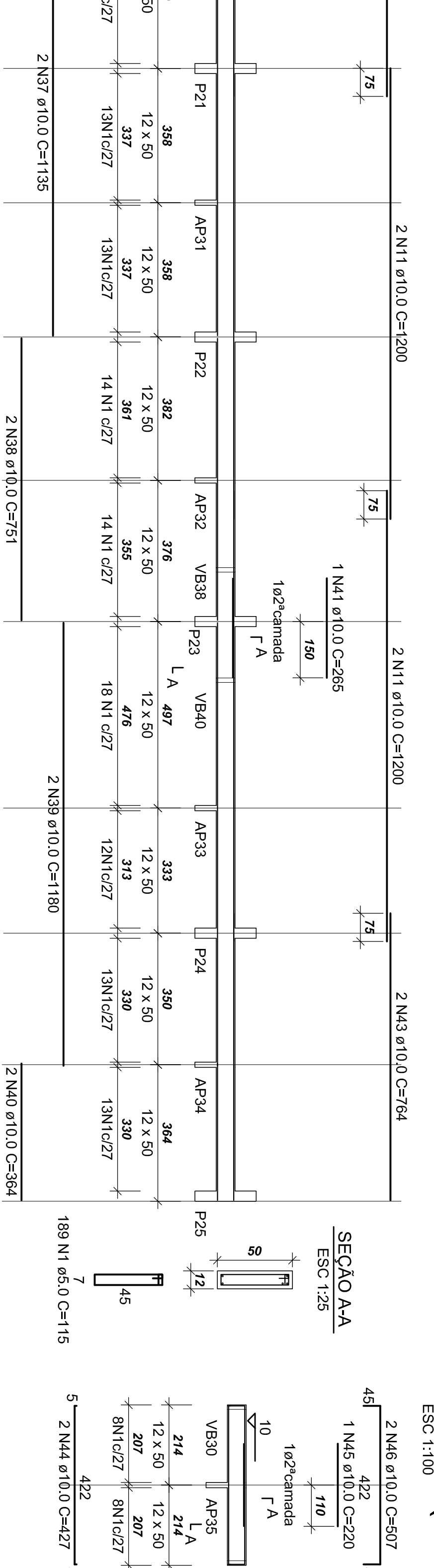
VB10 (12 x 50)



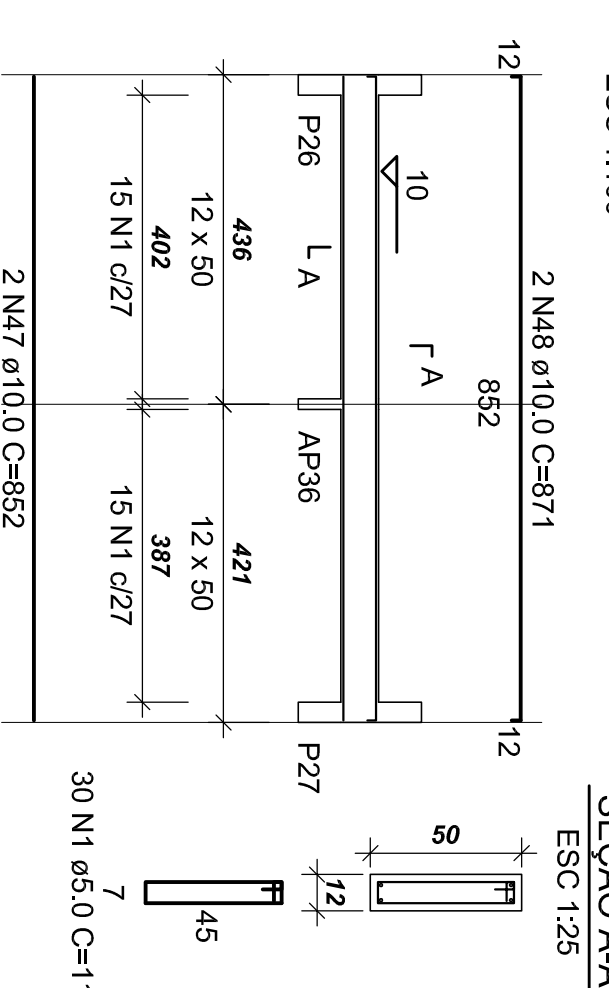
VB12 (12 x 50)



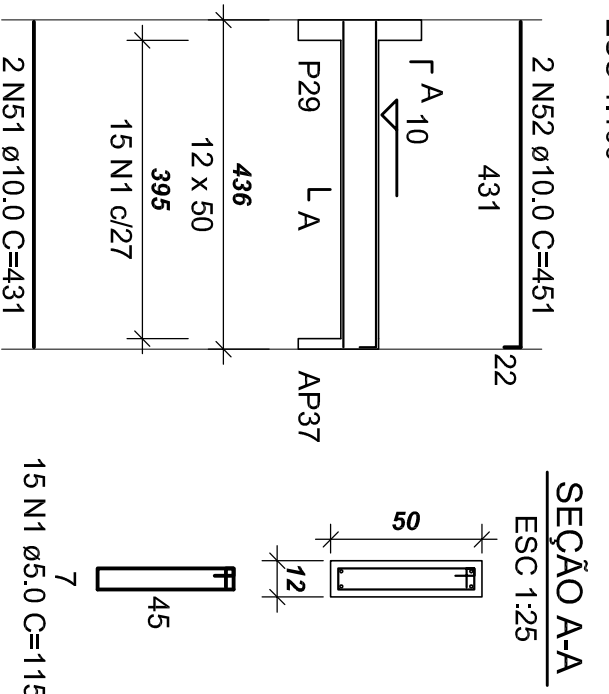
VB14 (12 x 50)



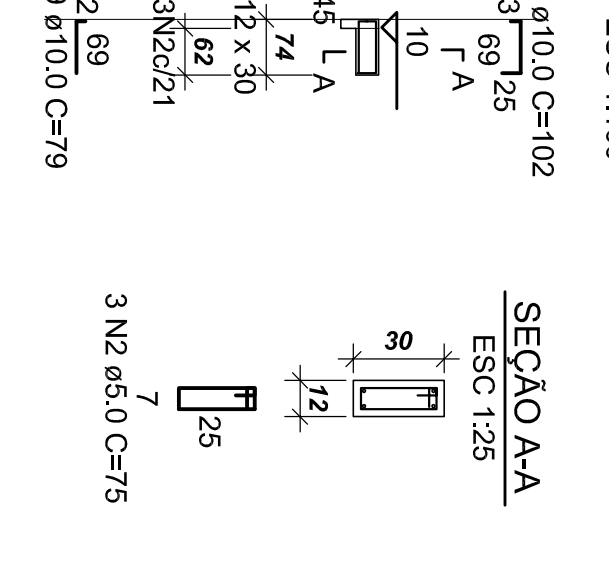
VB15 (12 x 50)



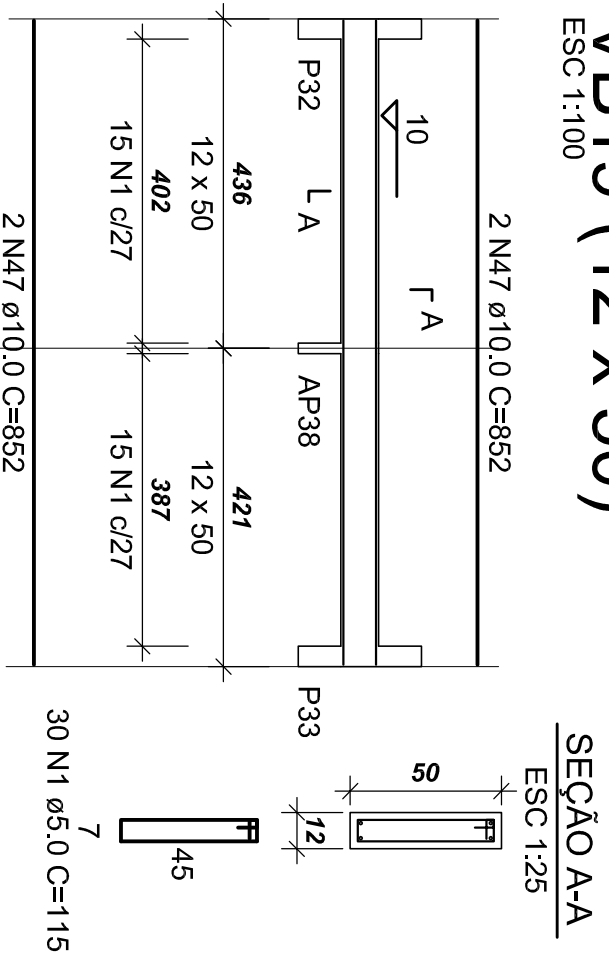
VB17 (12 x 50)



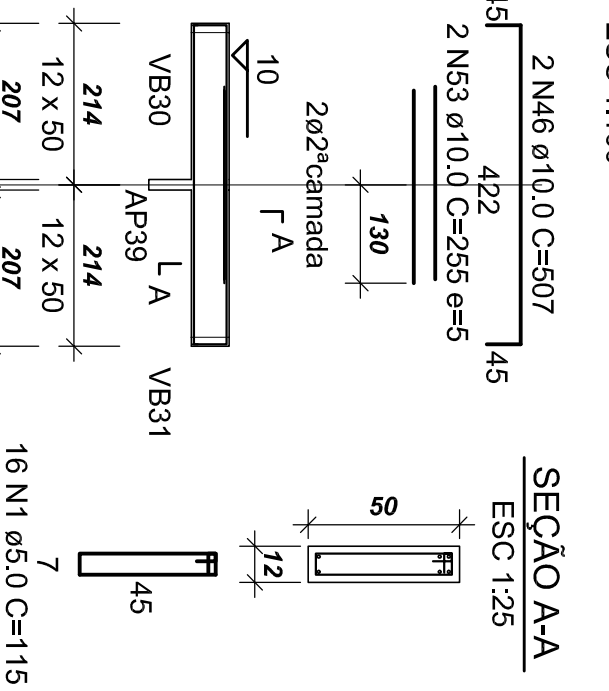
VB18 (12 x 30)



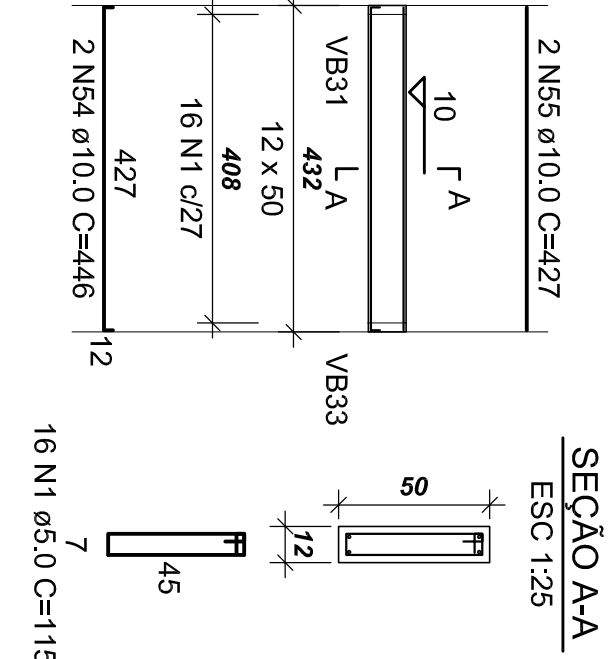
VB19 (12 x 50)



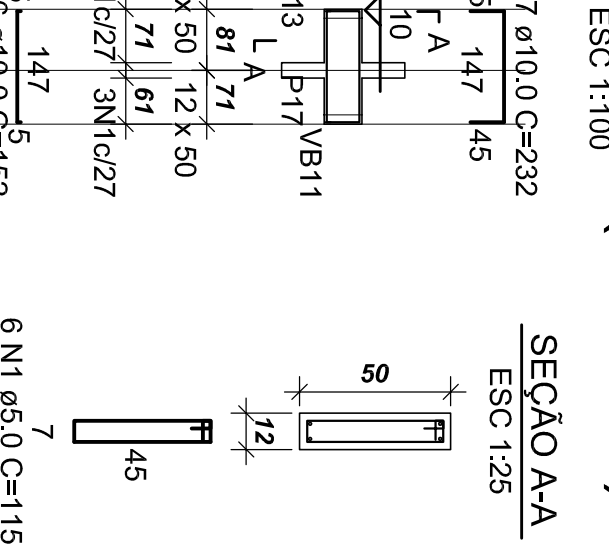
VB20 (12 x 50)



VB21 (12 x 50)



VB24 (12 x 50)



RESUMO DO AÇO

ACO	N	DIAM	Q	UNIT	C.TOTAL
60	1	5,0	100,0	(cm)	1153,45
50	3	10,0	323,8	(cm)	2328,5
	5	10,0	228,6	(cm)	1134,0
	6	10,0	107,2	(cm)	2144,0
	8	10,0	1	(cm)	205,0
	9	10,0	1	(cm)	895,9
	10	10,0	20	(cm)	2400,0
	11	10,0	20	(cm)	4008,0
	12	10,0	2	(cm)	504,0
	13	10,0	2	(cm)	759,0
	14	10,0	2	(cm)	256,0
	15	10,0	2	(cm)	739,0
	16	10,0	2	(cm)	348,0
	17	10,0	2	(cm)	696,0
	18	10,0	2	(cm)	762,0
	19	10,0	2	(cm)	381,0
	20	10,0	2	(cm)	309,0
	21	10,0	2	(cm)	1147,0
	22	10,0	2	(cm)	1022,0
	23	10,0	2	(cm)	4088,0
	24	10,0	4	(cm)	1022,0
	25	10,0	2	(cm)	330,0
	26	10,0	2	(cm)	660,0
	27	10,0	2	(cm)	883,0
	28	10,0	2	(cm)	1646,0
	29	10,0	2	(cm)	823,0
	30	10,0	2	(cm)	1778,0
	31	10,0	2	(cm)	971,0
	32	10,0	4	(cm)	1942,0
	33	10,0	4	(cm)	1690,0
	34	10,0	2	(cm)	2002,0
	35	10,0	2	(cm)	815,0
	36	10,0	2	(cm)	1630,0
	37	10,0	2	(cm)	1180,0
	38	10,0	2	(cm)	2390,0
	39	10,0	2	(cm)	1502,0
	40	10,0	1	(cm)	265,0
	41	10,0	1	(cm)	259,0
	42	10,0	1	(cm)	2396,0
	43	10,0	4	(cm)	427,0
	44	10,0	4	(cm)	220,0
	45	10,0	6	(cm)	5112,0
	46	10,0	8	(cm)	17142,0
	47	10,0	4	(cm)	408,0
	48	10,0	4	(cm)	102,0
	49	10,0	4	(cm)	431,0
	50	10,0	2	(cm)	862,0
	51	10,0	2	(cm)	255,0
	52	10,0	2	(cm)	510,0
	53	10,0	2	(cm)	892,0
	54	10,0	2	(cm)	446,0
	55	10,0	2	(cm)	1150,0
	56	10,0	2	(cm)	2300,0
	57	10,0	2	(cm)	832,0
	58	10,0	2	(cm)	944,0
	59	10,0	2	(cm)	452,0
	60	10,0	2	(cm)	723,0
	61	10,0	1	(cm)	310,0
	62	10,0	1	(cm)	310,0
	63	10,0	1	(cm)	1654,0
	64	10,0	2	(cm)	2554,0
	65	10,0	2	(cm)	412,0
	66	10,0	2	(cm)	304,0
	67	10,0	2	(cm)	618,0
	68	10,0	2	(cm)	1051,0
	69	10,0	2	(cm)	1236,0
	70	10,0	2	(cm)	2102,0
	71	10,0	2	(cm)	186,0
	72	10,0	2	(cm)	202,0
	73	10,0	1	(cm)	202,0

Via de concreto (V.C.25)=16,7 m³
Vão de apoio (V.A.3)=51,10 m³

ITEM	DESCRIÇÃO	UNIDADE	QUANTIDADE
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ITEM	DESCRIÇÃO	UNIDADE	QUANTIDADE
1	AS BUN.T ENGENHARIA DE PROJETOS LTDA		
2	Projeto Estrutural		
3	CONFERR. MEDIDAS NA OBRA		
4	BIBLIOTECA		
5	CAMPUS JANAUBA		
6	UNIVERSIDADE FEDERAL DOS VALES DO JACUINHONHA E MACAË		
7	FERRAGENS DAS VIGAS:		
8	BALDRAMES (I)		
9	CARLOS HENRIQUE DE SOUZA GONÇALVES		
10	CREA 79920-07		
11	ESTRUTURA		
12	TOUR		



AS BUN.T ENGENHARIA DE PROJETOS LTDA
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UFRVIM

07/26