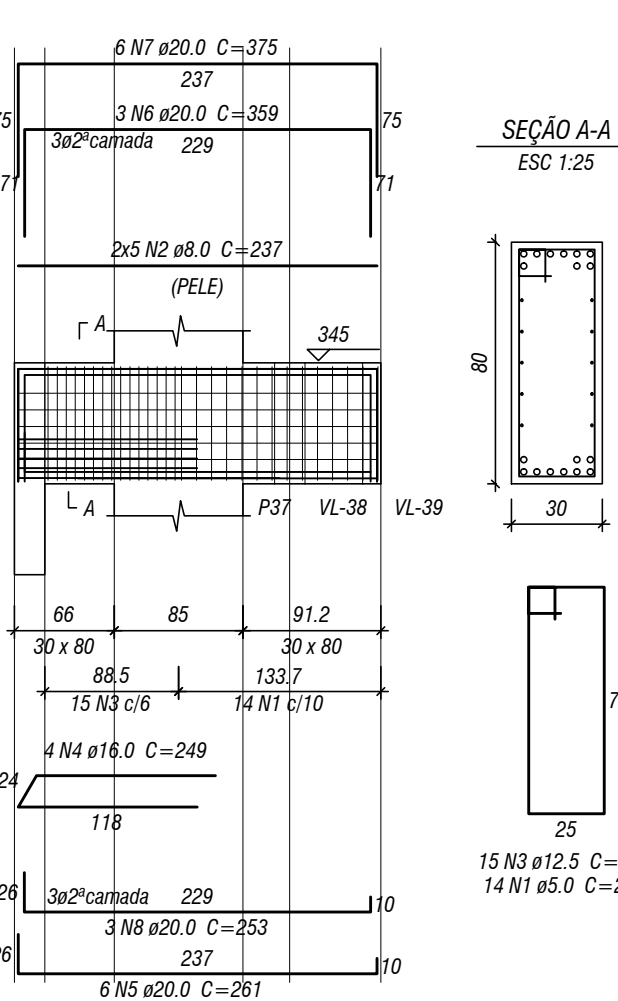
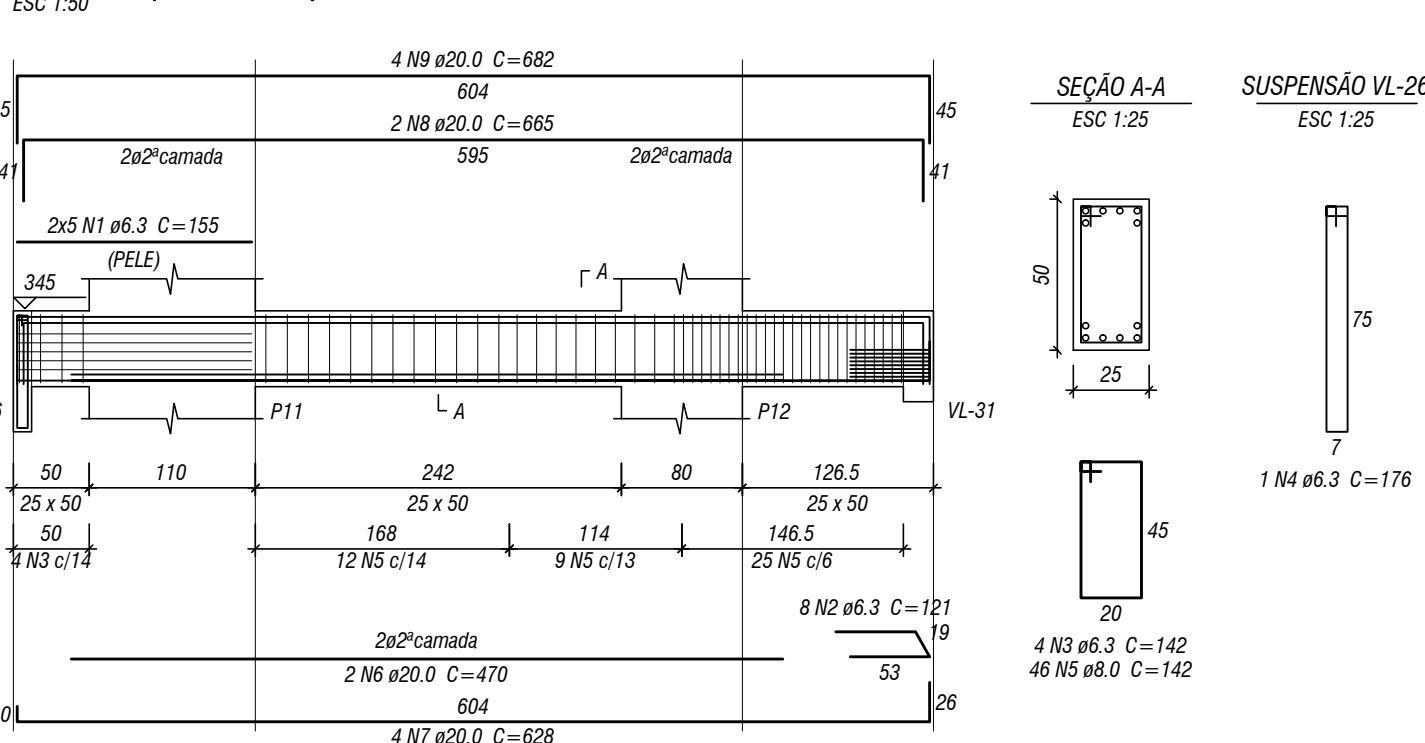


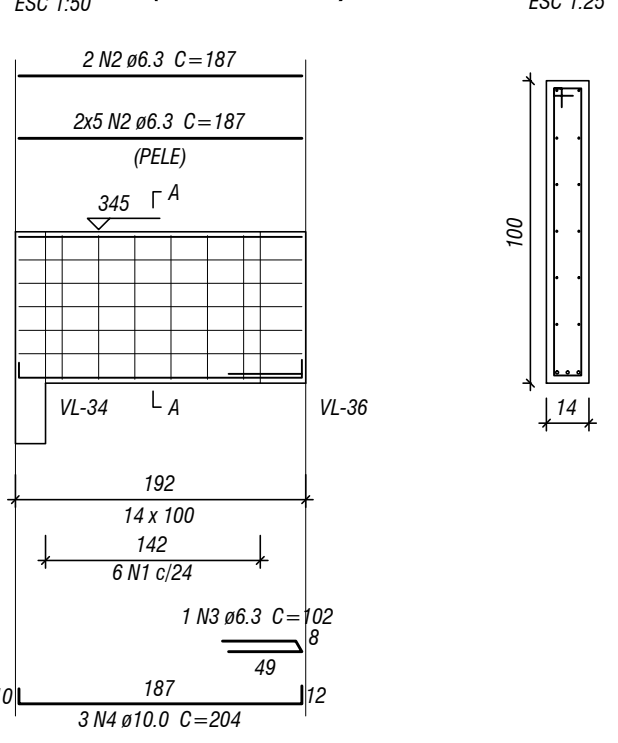
VL-9 (30 x 80)



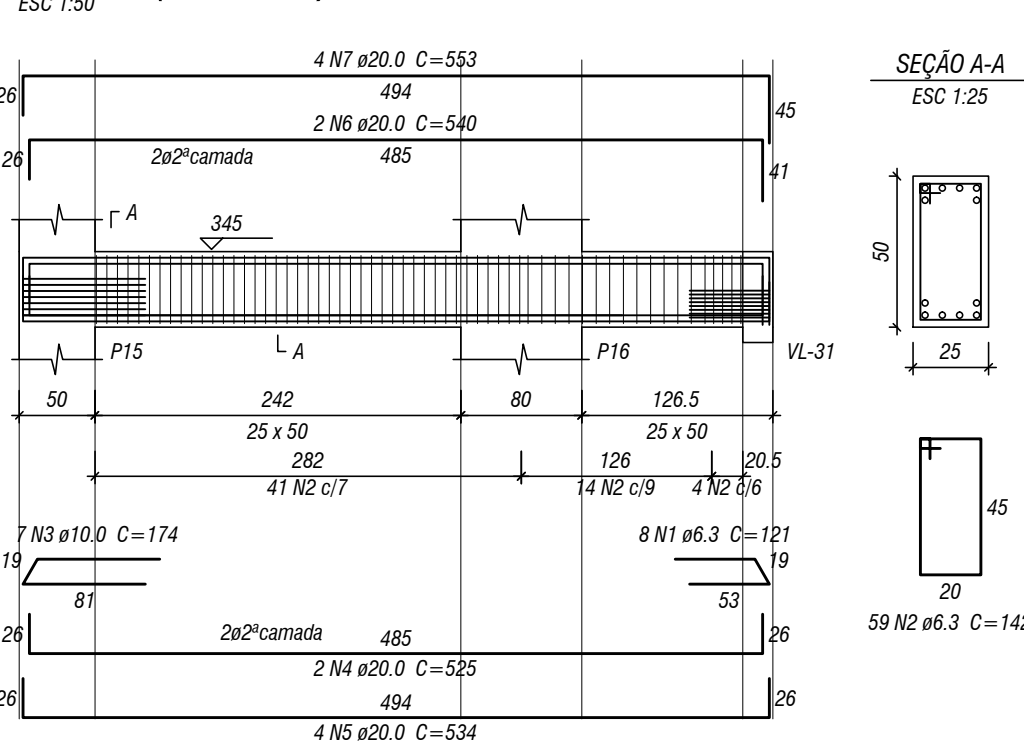
VL-10 (25 x 50)



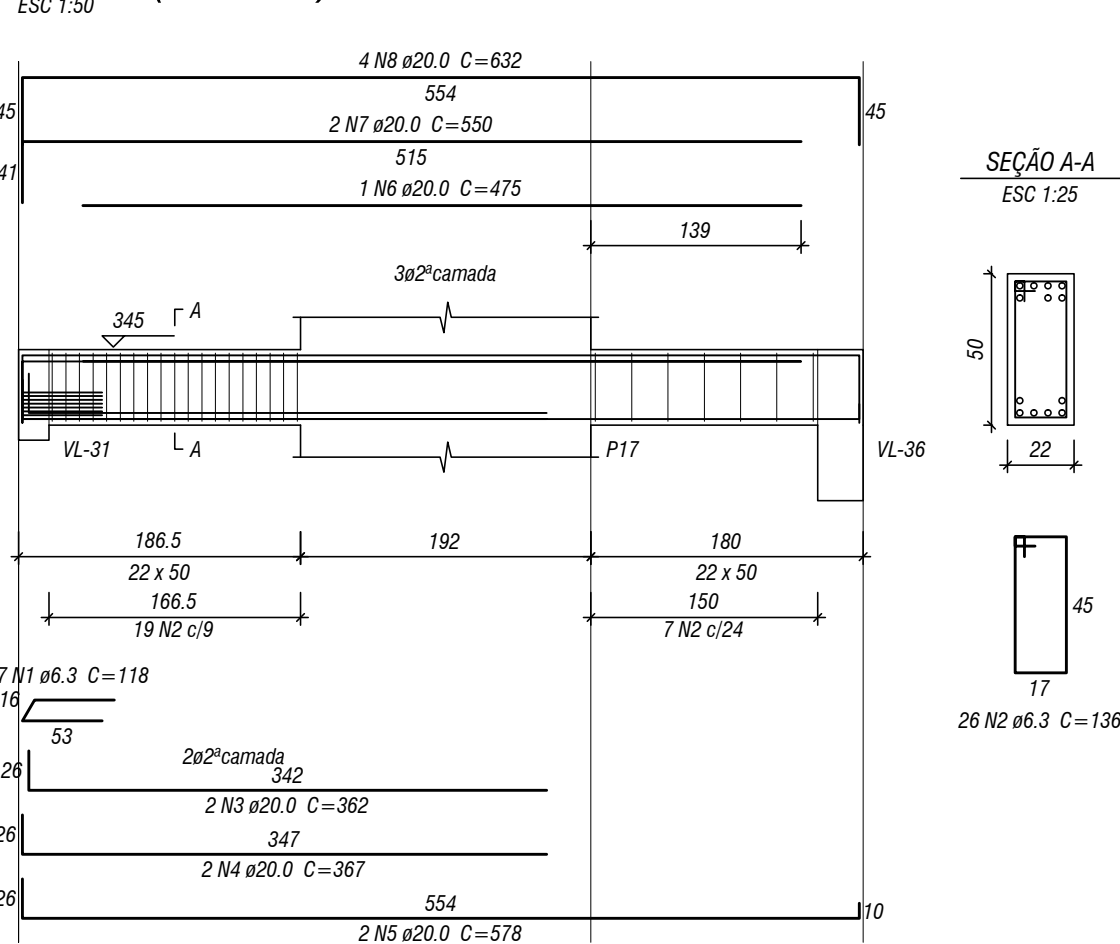
VL-12 (14 x 100)



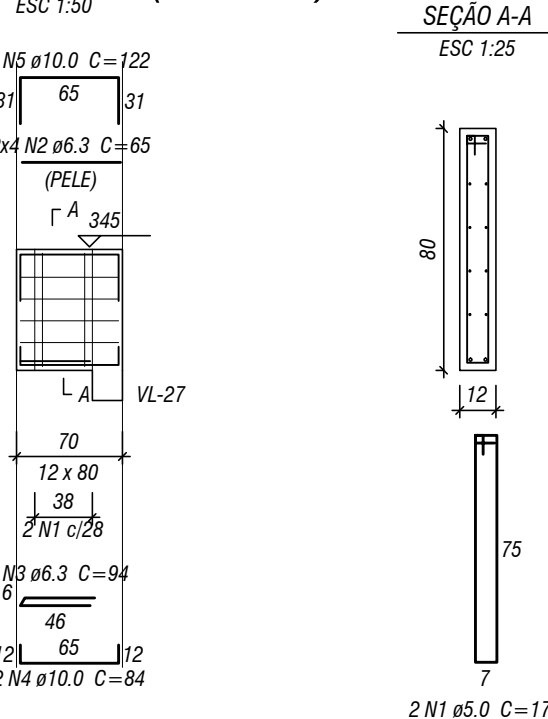
VL-13 (25 x 50)



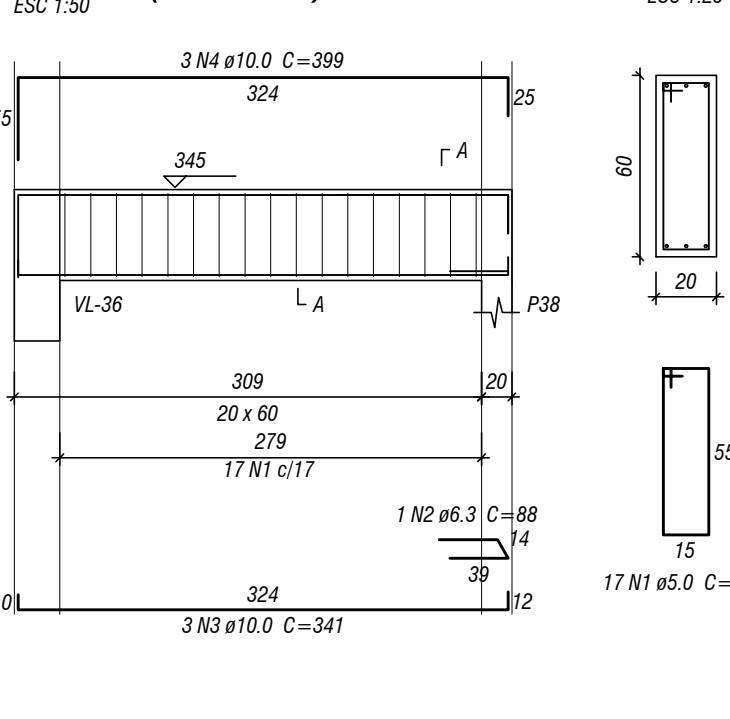
VL-14 (22 x 50)



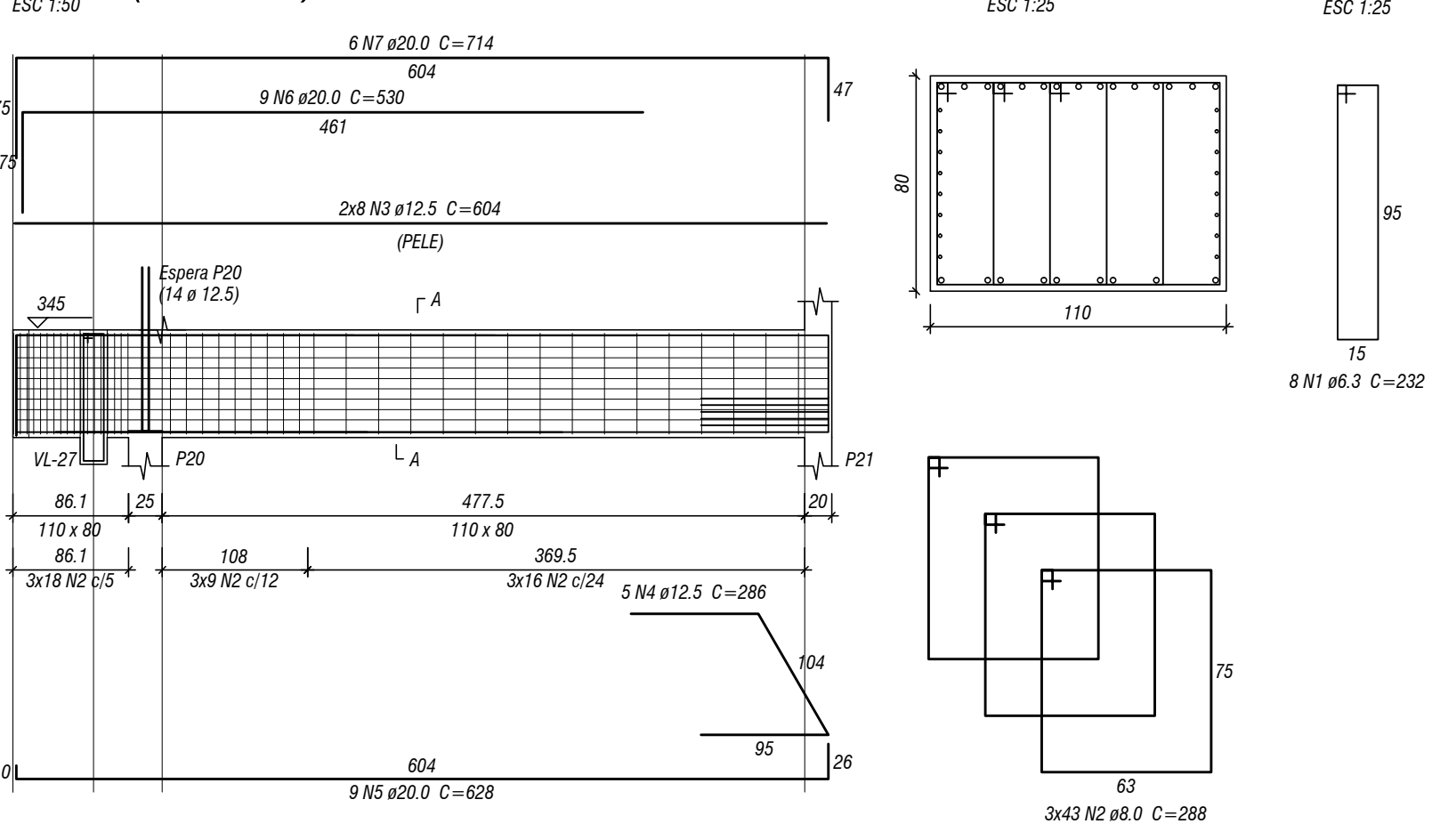
VL-15 (12 x 80)



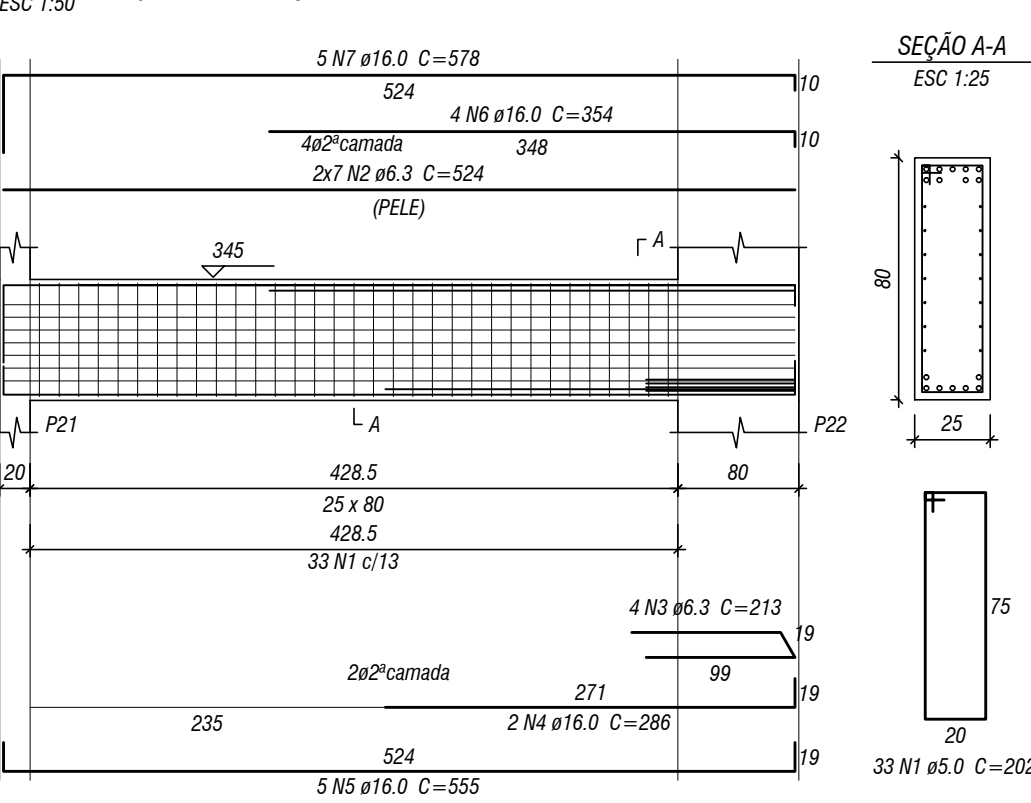
VL-16 (20 x 60)



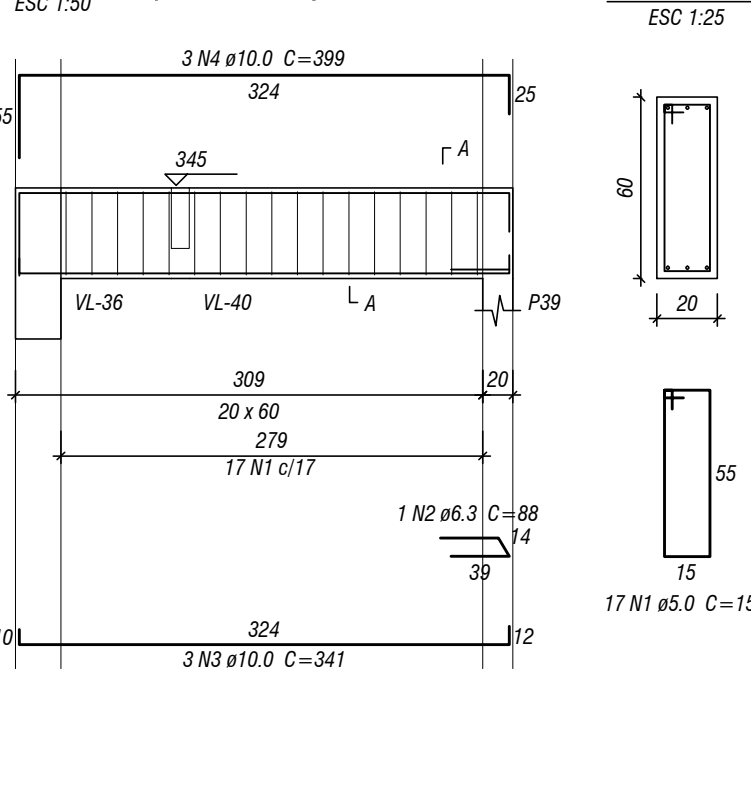
VL-17 (110 x 80)



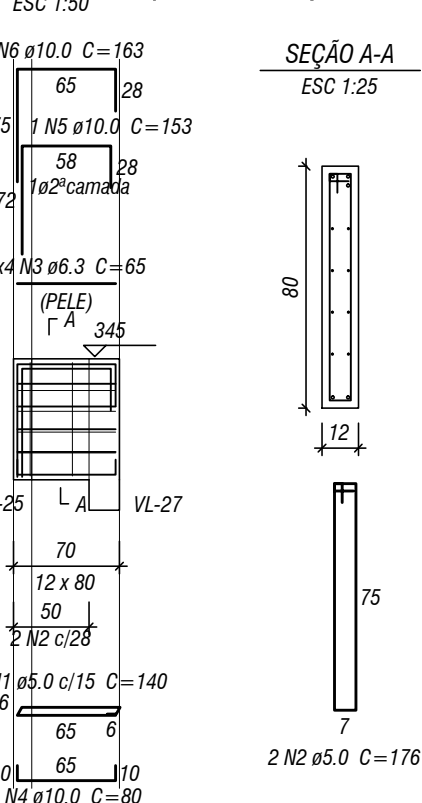
VL-18 (25 x 80)



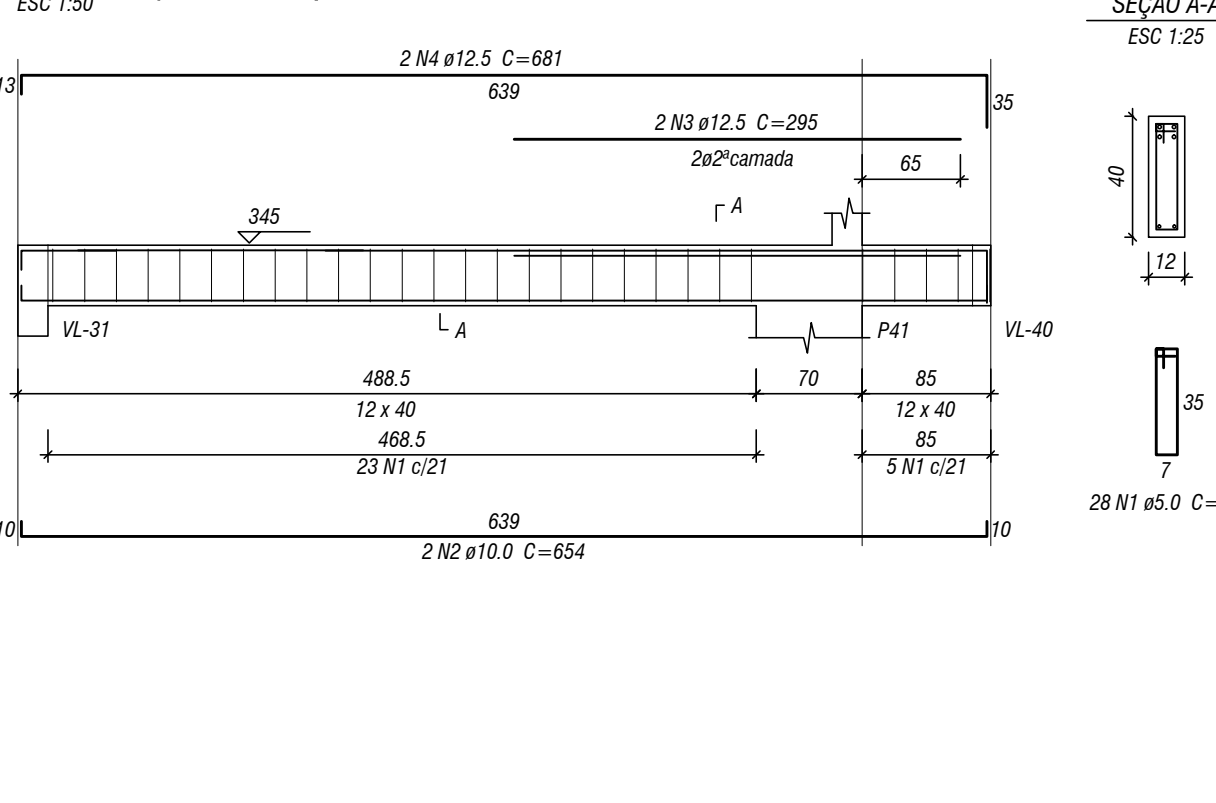
VL-19 (20 x 60)



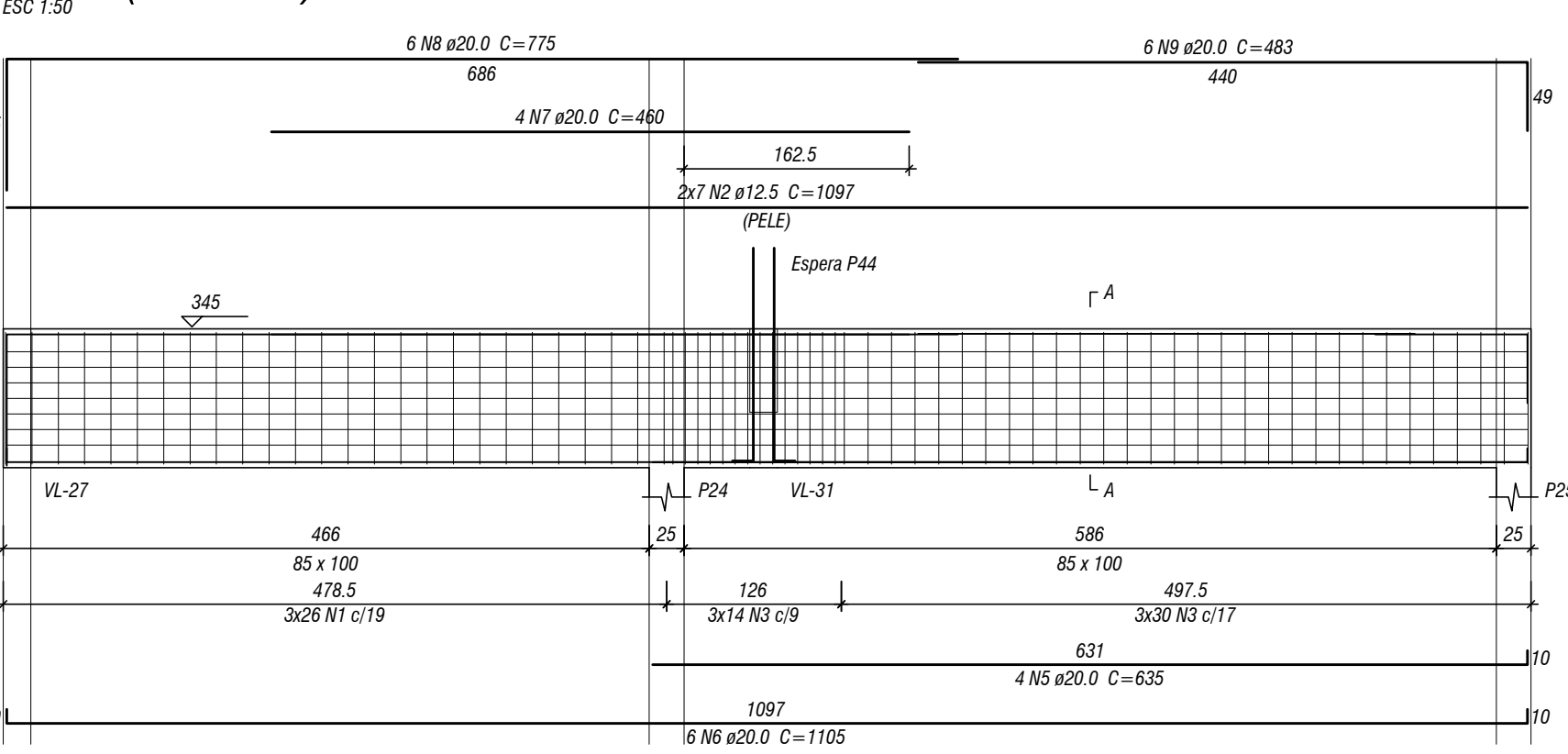
VL-20 (12 x 80)



VL-21 (12 x 40)

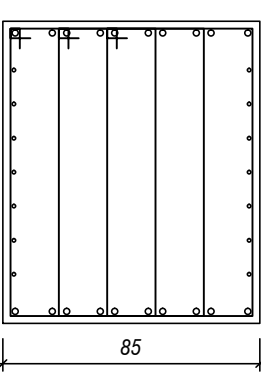


VL-22 (85 x 100)



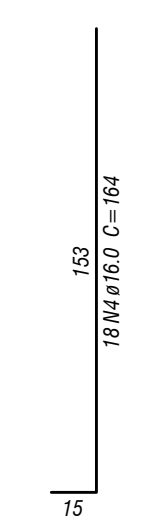
SEÇÃO A-A

ESC 1:25

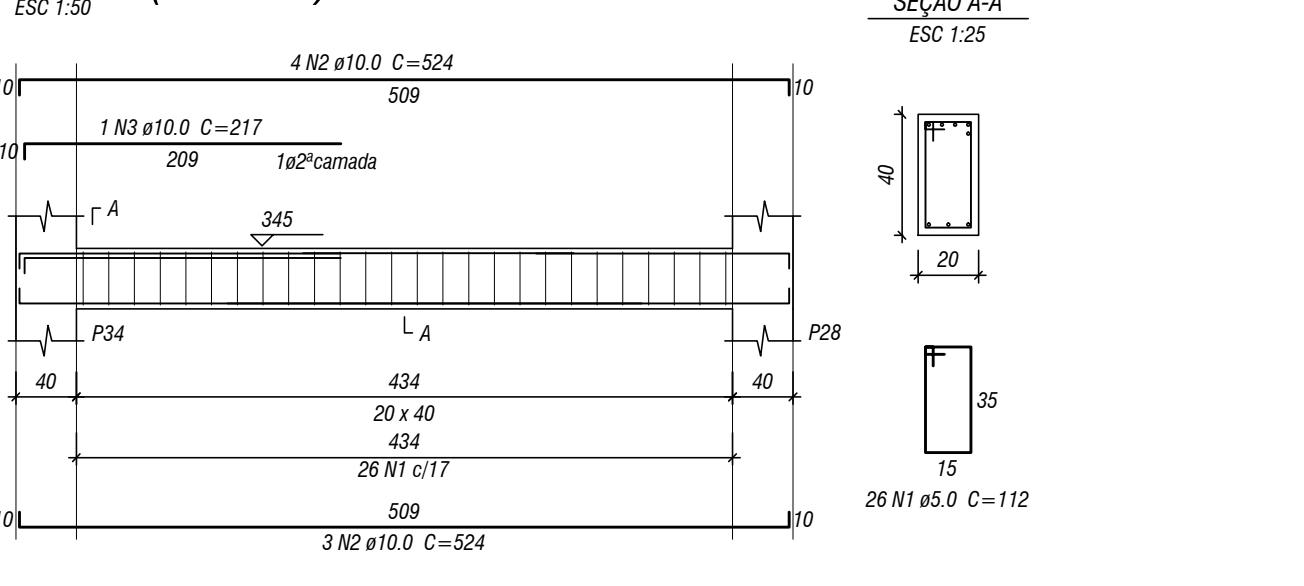


ESPERA P44

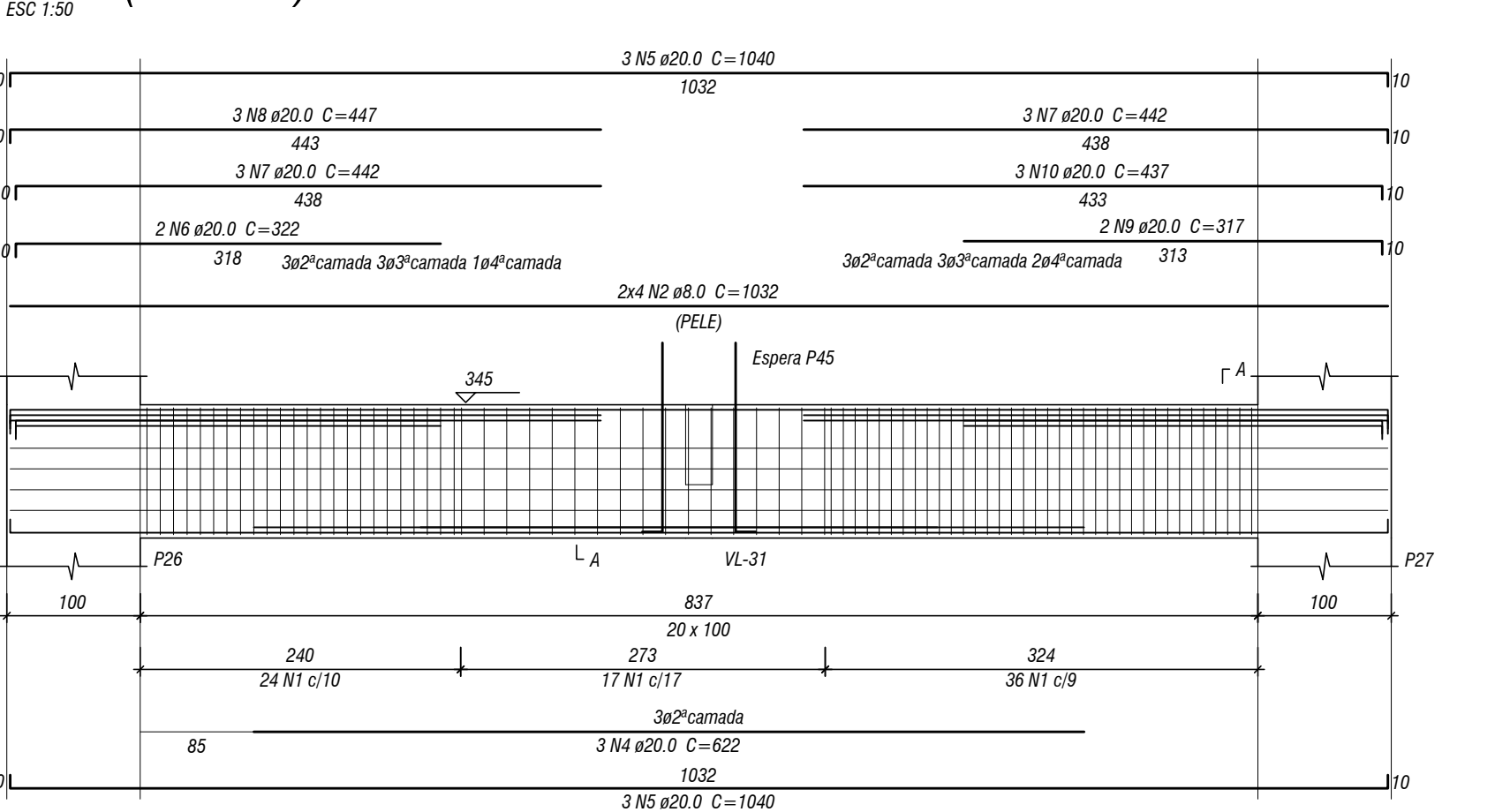
ESC 1:25



VL-24 (20 x 40)

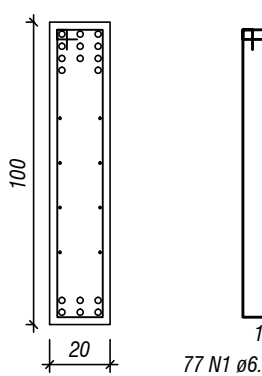


VL-23 (20 x 100)



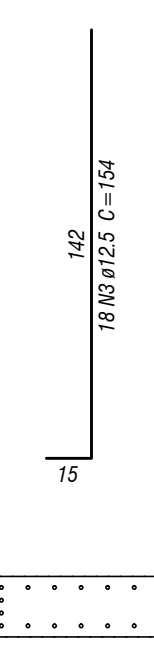
SEÇÃO A-A

ESC 1:25

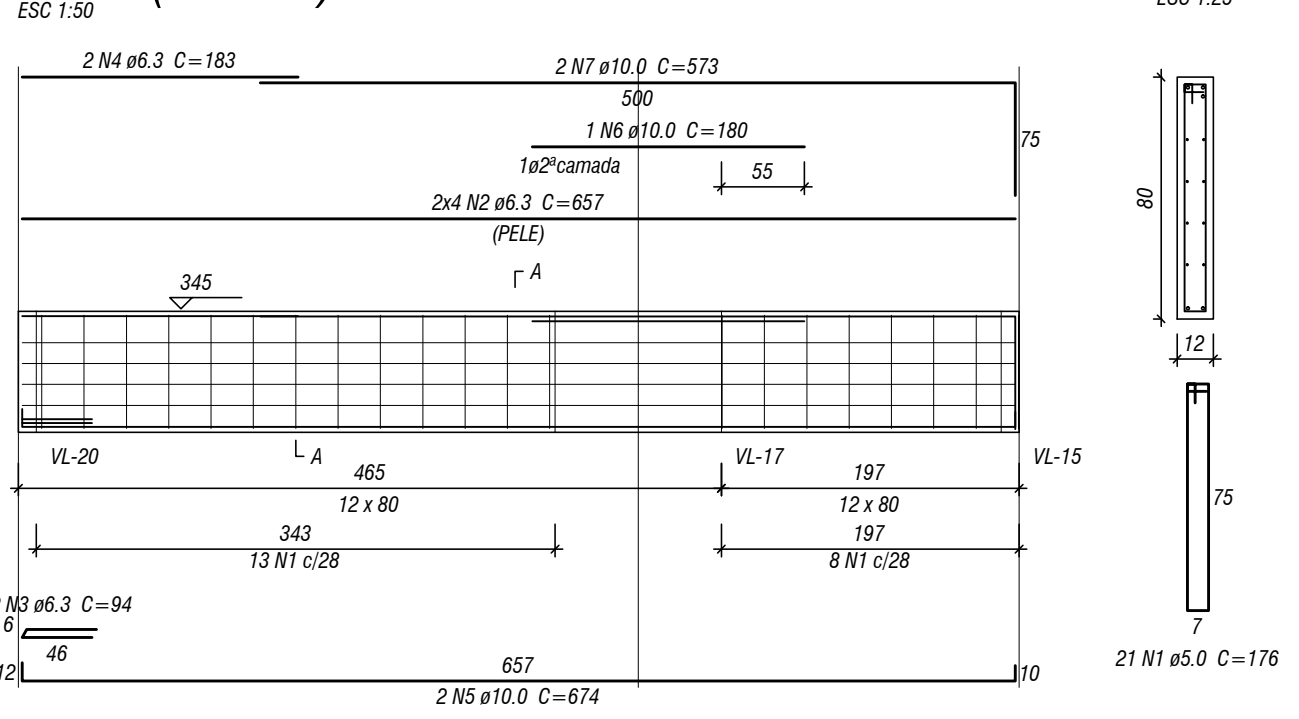


ESPERA P45

ESC 1:25

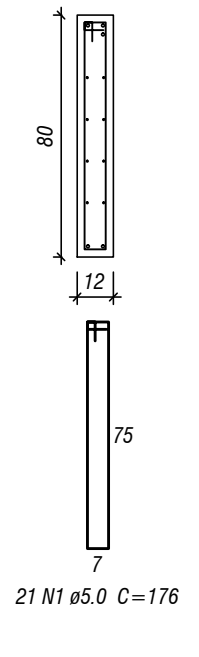


VL-25 (12 x 80)

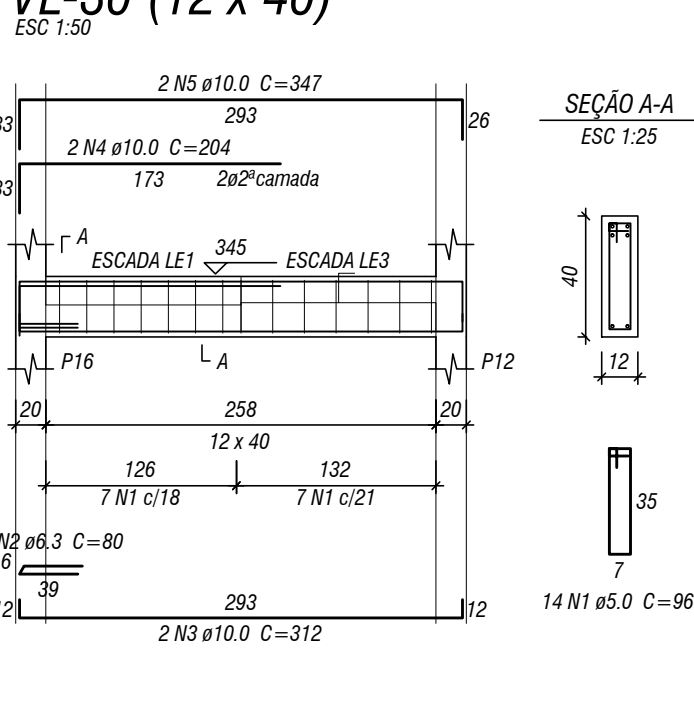


SEÇÃO A-A

ESC 1:25

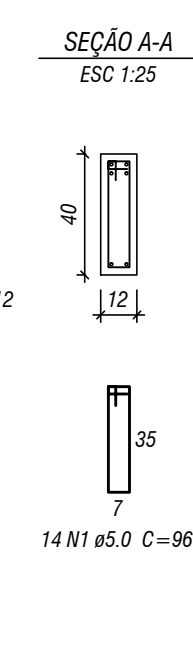


VL-30 (12 x 40)



SEÇÃO A-A

ESC 1:25



Relação do aço

ELEMENTO	AÇO	N	DIAM (cm)	O	UNIT (cm)	C.TOTAL (cm)
VL-9	CA80	1	5.0	14	212	2968
	CA50	2	8.0	10	237	2370
	CA50	3	12.5	15	220	3300
	CA50	4	16.0	4	249	996
	CA50	5	20.0	6	261	1586
VL-10	CA50	6	20.0	3	389	1077
	CA50	7	20.0	6	375	2250
	CA50	8	20.0	3	253	759
	CA50	1	6.3	10	155	1550
	CA50	2	6.3	8	121	968
	CA50	3	6.3	4	142	588
	CA50	4	6.3	1	176	176
	CA50	5	8.0	6	142	6332
	CA50	6	20.0	2	470	940
	CA50	7	20.0	4	628	2512
VL-12	CA50	8	20.0	2	685	1330
	CA50	9	20.0	4	682	2728
	CA80	1	5.0	6	220	1320
	CA50	2	6.3	12	187	2544
	CA50	3	6.3	1	102	102
VL-13	CA50	4	10.0	3	204	612
	CA50	1	6.3	8	121	968
	CA50	5	6.3	59	142	8378
	CA50	3	10.0	7	174	1218
	CA50	4	20.0	2	525	1050
	CA50	5	20.0	4	534	2136
	CA50	6	20.0	2	540	1080
	CA50	7	20.0	4	553	2212
	CA50	1	6.3	7	118	826
	CA50	2	6.3	28	136	3536
VL-14	CA50	3	20.0	2	362	724
	CA50	4	20.0	2	367	734
	CA50	5	20.0	2	578	1156
	CA50	6	20.0	1	475	475
	CA50	7	20.0	2	550	1100
VL-15	CA50	8	20.0	4	632	2528
	CA80	1	5.0	2	178	352
	CA50	2	6.3	65	520	3280
	CA50	3	6.3	1	94	94
	CA50	4	10.0	2	84	168
VL-16	CA50	5	10.0	2	122	244
	CA80	1	5.0	17	152	2584
	CA50	2	6.3	1	88	88
	CA50	3	10.0	3	341	1023
	CA50	4	10.0	3	399	1197
VL-17	CA50	1	6.3	8	232	1856
	CA50	2	8.0	129	288	37152
	CA50	3	12.5	16	604	9664
	CA50	4	12.5	5	286	1430
	CA50	5	20.0	9	628	5852
VL-18	CA50	6	20.0	9	530	4770
	CA50	7	16.0	6	714	4284
	CA80	1	5.0	33	202	6686
	CA50	2	6.3	14	524	7336
	CA50	3	6.3	213	852	18138
	CA50	4	16.0	2	286	572
	CA50	5	16.0	5	555	2775
	CA50	6	16.0	4	354	1416
	CA50	7	16.0	5	578	2890
	CA80	1	5.0	17	152	2584
VL-19	CA50	2	6.3	1	88	88
	CA50	3	10.0	3	341	1023
	CA50	4	10.0	3	399	1197
	CA80	1	5.0	4	140	560
	CA50	2	5.0	2	176	352
VL-20	CA50	3	6.3	8	65	520
	CA50	4	10.0	2	80	160
	CA50	5	10.0	1	153	153
	CA50	6	10.0	2	163	326
	CA80	1	5.0	28	96	2688
VL-21	CA50	2	10.0	2	654	1308
	CA50	3	12.5	2	295	590
	CA50	4	12.5	2	681	1362
	CA50	1	6.3	78	298	23244
	CA50	2	12.5	14	1097	15338
VL-22	CA50	3	12.5	132	308	40382
	CA50	4	16.0	18	164	2932
	CA50	5	20.0	4	635	2540
	CA50	6	20.0	6	1105	6630
	CA50	7	20.0	4	480	1840
	CA50	8	20.0	6	775	4650
	CA50	9	20.0	6	483	2898
	CA80	1	6.3	77	232	17884
	CA50	2	8.0	8	1032	8256
	CA50	3	12.5	18	154	2772
VL-23	CA50	4	20.0	3	622	1866
	CA50	5	20.0	6	1040	6240
	CA50	6	20.0	2	322	644
	CA50	7	20.0	6	442	2632
	CA50	8	20.0	3	447	1341
	CA50	9	20.0	2	317	634
	CA50	10	20.0	3	437	1311
	CA80	1	5.0	26	112	2912
	CA50	2	10.0	7	524	3668
	CA50	3	10.0	1	217	217
VL-24	CA80	1	5.0	21	176	3696
	CA50	2	6.3	8	657	5256
	CA50	3	6.3	2	94	188
	CA50	4	6.3	2	183	366
	CA50	5	10.0	2	674	1348
VL-25	CA50	6	10.0	1	180	180