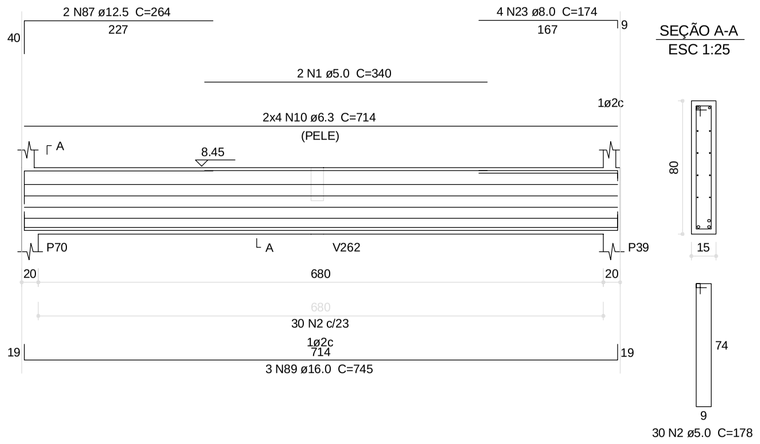
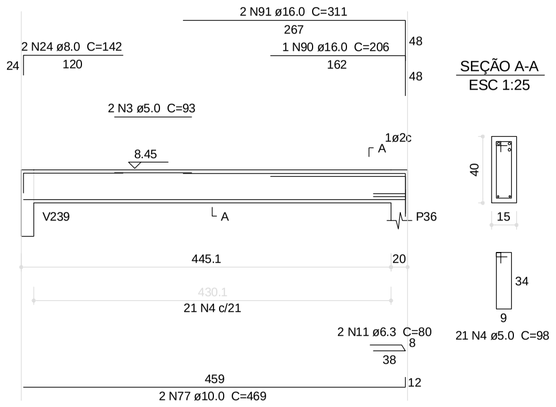
V239
1:50



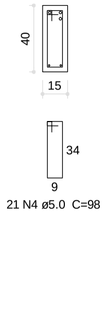
SEÇÃO A-A
ESC 1:25

30 N2 ø5.0 C=178

V240
1:50

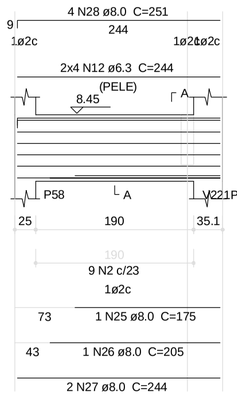


SEÇÃO A-A
ESC 1:25

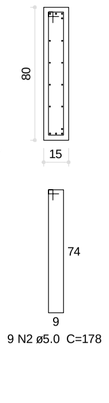


21 N4 ø5.0 C=98

V241
1:50

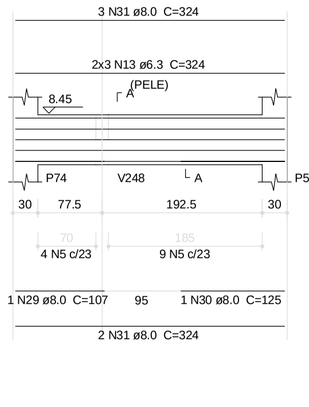


SEÇÃO A-A
ESC 1:25

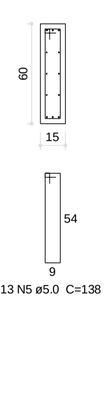


9 N2 ø5.0 C=178

V247
1:50

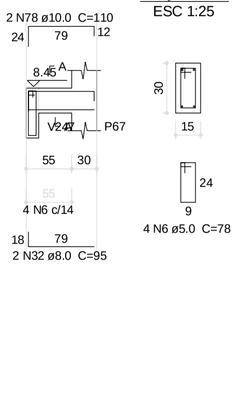


SEÇÃO A-A
ESC 1:25

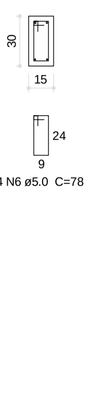


13 N5 ø5.0 C=138

V248
1:50



SEÇÃO A-A
ESC 1:25

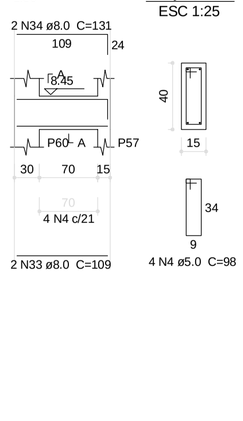


4 N6 ø5.0 C=78

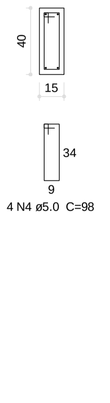
Suspensão V247
ESC 1:25

1 N79 ø10.0 C=139

V249
1:50



SEÇÃO A-A
ESC 1:25



4 N4 ø5.0 C=98

Relação do aço

V239	V240	V241
V247	V248	V249
V250	V251	V252
V253	V254	V255
V256	V257	V258
V259	V260	V261
V262	V263	V264
V265	V266	V267
V270		

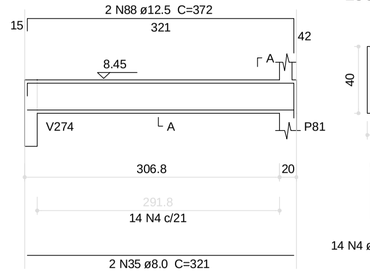
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	340	680
	2	5.0	139	178	24742
	3	5.0	2	93	186
	4	5.0	84	98	8232
	5	5.0	64	138	8832
	6	5.0	17	78	1326
	7	5.0	2	305	610
	8	5.0	2	350	700
	9	5.0	2	377	754
CA50	10	6.3	24	714	17136
	11	6.3	2	80	160
	12	6.3	8	244	1952
	13	6.3	6	324	1944
	14	6.3	6	272	1632
	15	6.3	2	110	220
	16	6.3	8	78	624
	17	6.3	6	376	2256
	18	6.3	8	145	1160
	19	6.3	8	619	4952
	20	6.3	6	409	2454
	21	6.3	6	277	1662
	22	6.3	8	231	1848
	23	8.0	4	174	696
	24	8.0	2	142	284
	25	8.0	1	175	175
	26	8.0	1	205	205
	27	8.0	2	244	488
	28	8.0	4	251	1004
	29	8.0	1	107	107
	30	8.0	5	125	625
	31	8.0	5	324	1620
	32	8.0	4	95	380
	33	8.0	2	109	218
	34	8.0	2	131	262
	35	8.0	2	321	642
	36	8.0	1	55	55
	37	8.0	1	173	173
	38	8.0	2	272	544
	39	8.0	3	294	882
	40	8.0	2	108	216
	41	8.0	1	247	247
	42	8.0	2	376	752
	43	8.0	3	398	1194
	44	8.0	2	108	216
	45	8.0	2	167	334
	46	8.0	4	239	956
	47	8.0	2	219	438
	48	8.0	2	248	496
	49	8.0	4	79	316
	50	8.0	1	101	101
	51	8.0	1	290	290
	52	8.0	1	534	534
	53	8.0	2	619	1238
	54	8.0	4	132	528
	55	8.0	2	127	254
	56	8.0	2	172	344
	57	8.0	1	248	248
	58	8.0	2	409	818
	59	8.0	1	102	102
	60	8.0	1	102	102
	61	8.0	2	416	832
	62	8.0	1	170	170
	63	8.0	2	277	554
	64	8.0	3	284	852
	65	8.0	2	403	806
	66	8.0	2	157	314
	67	8.0	2	217	434
	68	8.0	2	129	258
	69	8.0	2	154	308
	70	8.0	2	244	488
	71	8.0	4	147	588
	72	8.0	2	100	200
	73	8.0	2	111	222
	74	8.0	1	164	164
	75	8.0	3	231	693
	76	8.0	4	253	1012
	77	10.0	2	469	938
	78	10.0	2	110	220
	79	10.0	1	139	139
	80	10.0	2	189	378
	81	10.0	7	733	5131
	82	10.0	1	190	190
	83	10.0	2	230	460
	84	10.0	2	359	718
	85	10.0	1	179	179
	86	10.0	3	106	318
	87	12.5	4	264	1056
	88	12.5	2	372	744
	89	16.0	3	745	2235
	90	16.0	1	206	206
	91	16.0	2	311	622
	92	16.0	2	119	238
	93	16.0	2	729	1458
	94	16.0	2	291	582

Resumo do aço

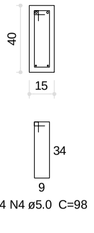
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	380	102.3
	8.0	259.8	112.8
	10.0	86.8	58.8
	12.5	18	19.1
	16.0	53.5	92.7
CA60	5.0	460.7	78.1
PESO TOTAL			
CA50	385.7		
CA60	78.1		

Vol. de concreto total (C-30) = 7.01 m³
Área de forma total = 104.73 m²

V250
1:50

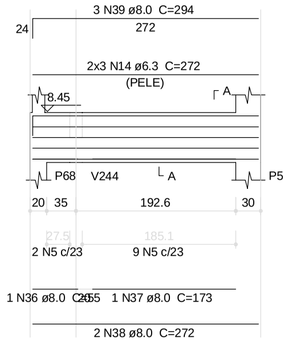


SEÇÃO A-A
ESC 1:25

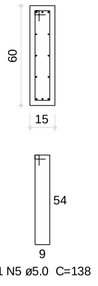


14 N4 ø5.0 C=98

V251
1:50

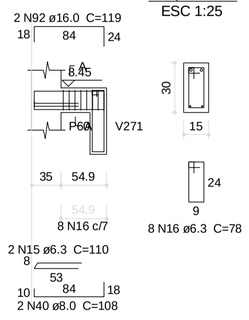


SEÇÃO A-A
ESC 1:25



11 N5 ø5.0 C=138

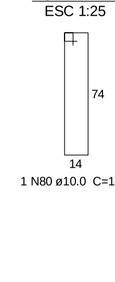
V252
1:50



SEÇÃO A-A
ESC 1:25

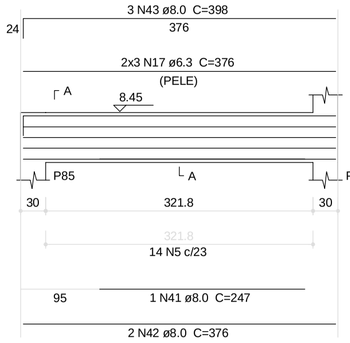
8 N16 ø6.3 C=78

Suspensão V271
ESC 1:25

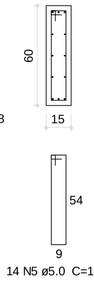


1 N80 ø10.0 C=189

V253
1:50

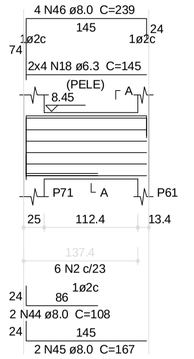


SEÇÃO A-A
ESC 1:25

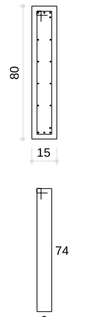


14 N5 ø5.0 C=138

V254
1:50

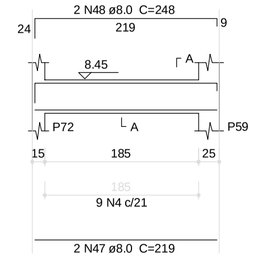


SEÇÃO A-A
ESC 1:25

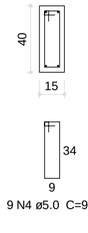


6 N2 ø5.0 C=178

V255
1:50

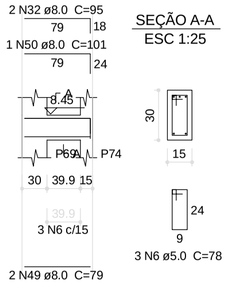


SEÇÃO A-A
ESC 1:25

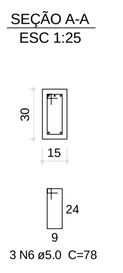


9 N4 ø5.0 C=98

V256
1:50

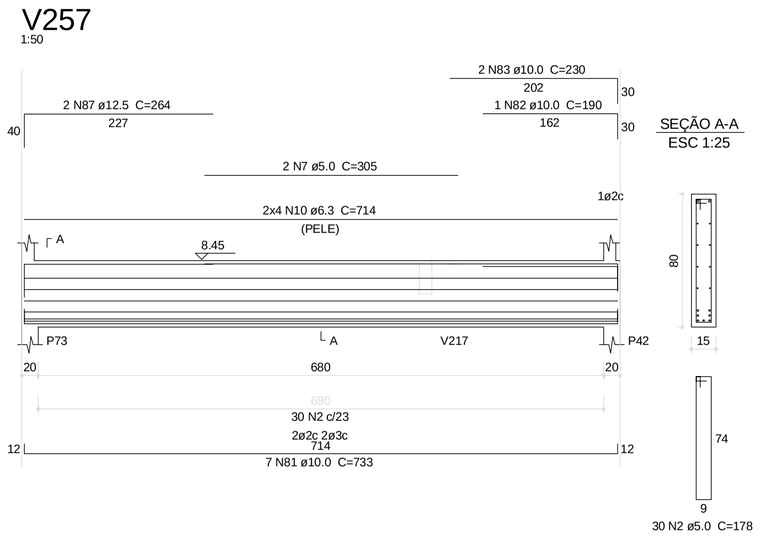


SEÇÃO A-A
ESC 1:25



3 N6 ø5.0 C=78

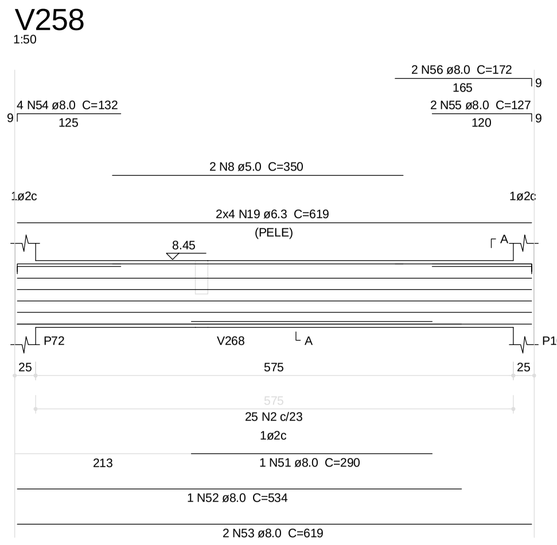
V257
1:50



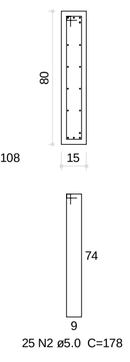
SEÇÃO A-A
ESC 1:25

30 N2 ø5.0 C=178

V258
1:50

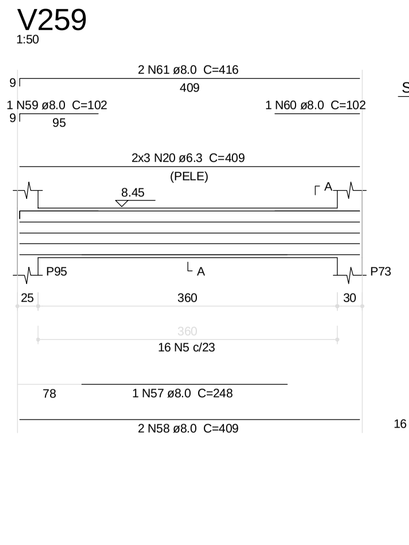


SEÇÃO A-A
ESC 1:25

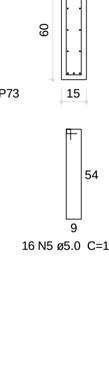


25 N2 ø5.0 C=178

V259
1:50

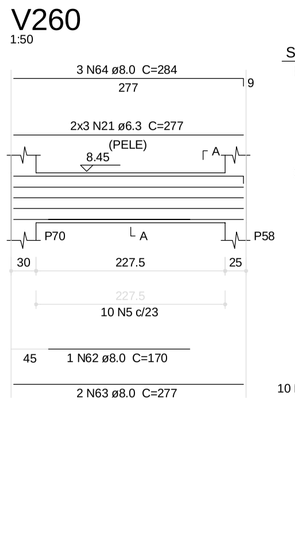


SEÇÃO A-A
ESC 1:25

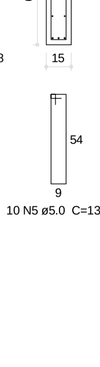


16 N5 ø5.0 C=138

V260
1:50

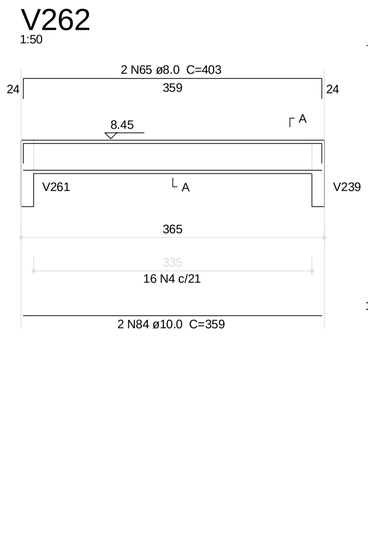


SEÇÃO A-A
ESC 1:25



10 N5 ø5.0 C=138

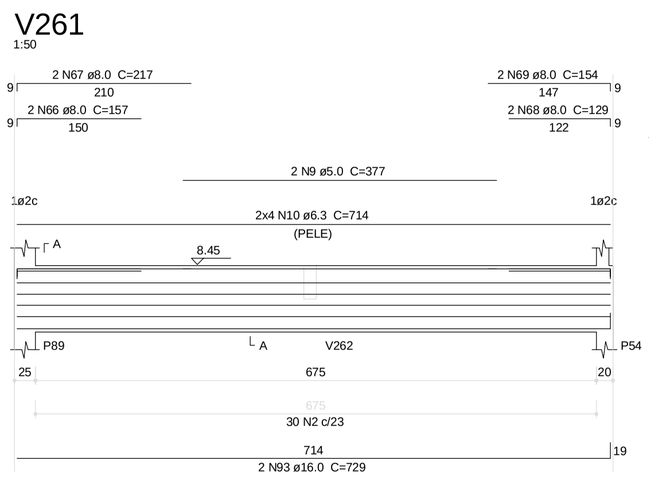
V262
1:50



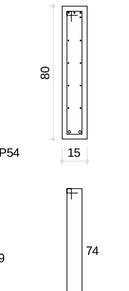
SEÇÃO A-A
ESC 1:25

16 N4 ø5.0 C=98

V261
1:50

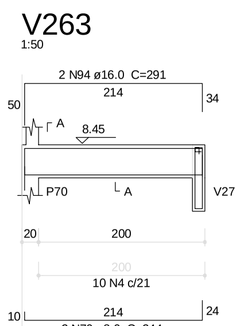


SEÇÃO A-A
ESC 1:25

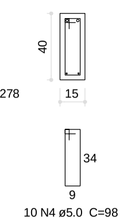


30 N2 ø5.0 C=178

V263
1:50

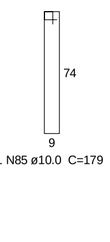


SEÇÃO A-A
ESC 1:25



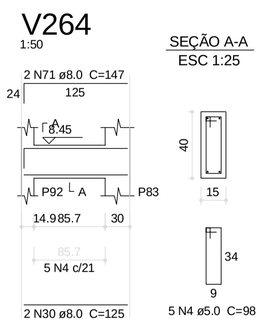
10 N4 ø5.0 C=98

Suspensão V278
ESC 1:25



1 N85 ø10.0 C=179

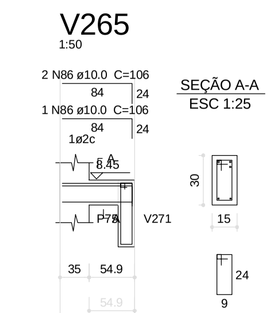
V264
1:50



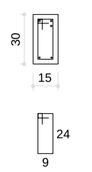
SEÇÃO A-A
ESC 1:25

5 N4 ø5.0 C=98

V265
1:50

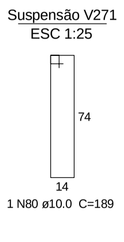


SEÇÃO A-A
ESC 1:25



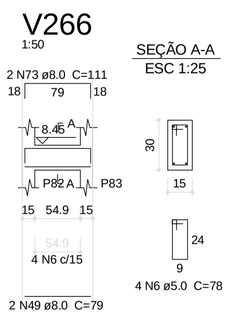
6 N6 ø5.0 C=78

Suspensão V271
ESC 1:25



1 N80 ø10.0 C=189

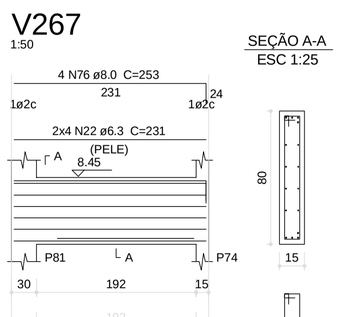
V266
1:50



SEÇÃO A-A
ESC 1:25

4 N6 ø5.0 C=78

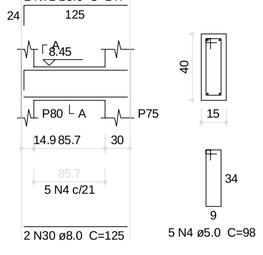
V267
1:50



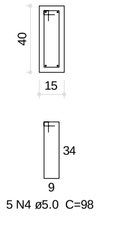
SEÇÃO A-A
ESC 1:25

9 N2 ø5.0 C=178

V270
1:50



SEÇÃO A-A
ESC 1:25



5 N4 ø5.0 C=98

Nº:	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO:

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TÍTULO
DETALHAMENTO DAS VIGAS DO 1º PAVIMENTO- 9/10
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