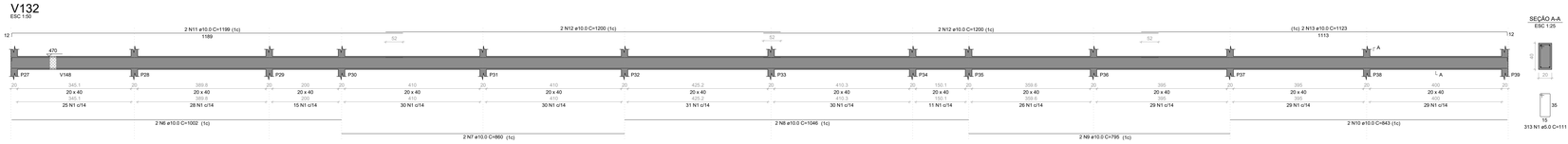
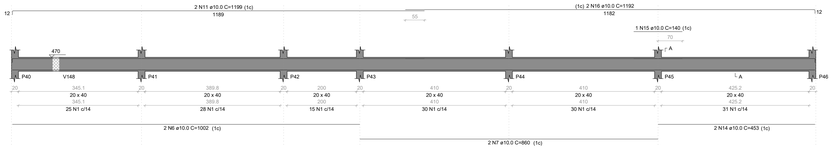
V132
ESC 1:50

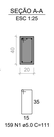


SEÇÃO A-A
ESC 1:25

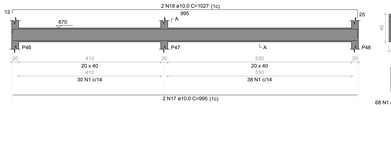
V133
ESC 1:50



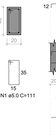
SEÇÃO A-A
ESC 1:25



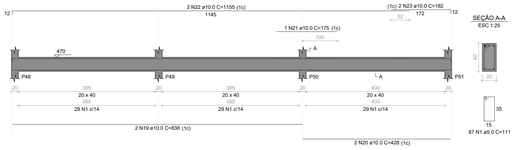
V134
ESC 1:50



SEÇÃO A-A
ESC 1:25

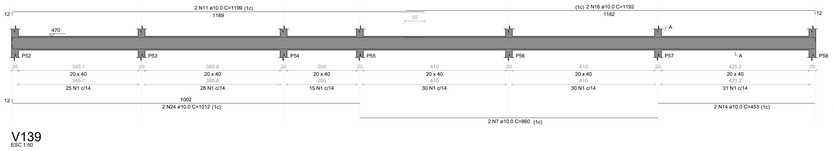


V135
ESC 1:50

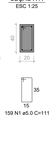


SEÇÃO A-A
ESC 1:25

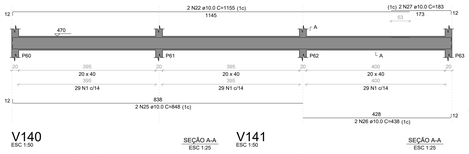
V136
ESC 1:50



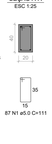
SEÇÃO A-A
ESC 1:25



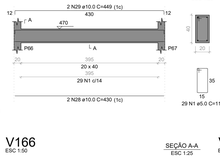
V137
ESC 1:50



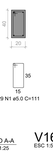
SEÇÃO A-A
ESC 1:25



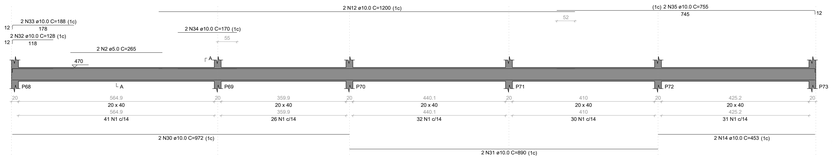
V138
ESC 1:50



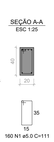
SEÇÃO A-A
ESC 1:25



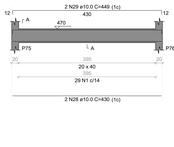
V139
ESC 1:50



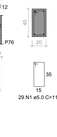
SEÇÃO A-A
ESC 1:25



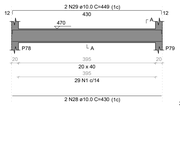
V140
ESC 1:50



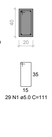
SEÇÃO A-A
ESC 1:25



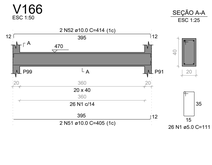
V141
ESC 1:50



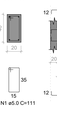
SEÇÃO A-A
ESC 1:25



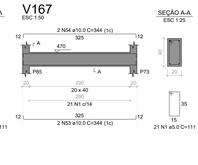
V166
ESC 1:50



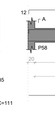
SEÇÃO A-A
ESC 1:25



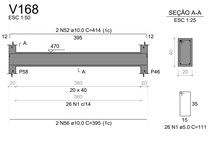
V167
ESC 1:50



SEÇÃO A-A
ESC 1:25



V168
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V132	V133	V134	
V135	V136	V137	
V138	V139	V140	
V141	V142	V143	
V144	V145	V146	
V147	V148	V149	
V150	V151	V152	
V153	V154	V155	
V156	V157	V158	
V159	V160	V161	
V162	V163	V164	
V165	V166	V167	
V168			

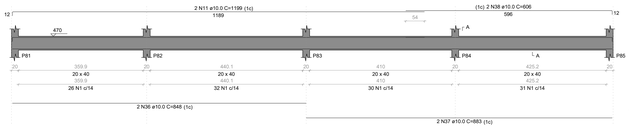
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2170	111	240870
	2	6.0	2	265	530
	3	6.0	43	131	5633
	4	6.0	2	310	620
	5	6.0	2	350	700
CA50	6	10.0	4	1002	4008
	7	10.0	6	860	5160
	8	10.0	2	1046	2092
	9	10.0	2	795	1590
	10	10.0	2	843	1686
	11	10.0	8	1199	9592
	12	10.0	8	1200	9600
	13	10.0	2	1123	2246
	14	10.0	4	453	1812
	15	10.0	4	140	560
	16	10.0	4	1192	4768
	17	10.0	2	995	1990
	18	10.0	2	1027	2054
	19	10.0	2	838	1676
	20	10.0	2	428	856
	21	10.0	1	175	175
	22	10.0	4	1155	4620
	23	10.0	2	182	364
	24	10.0	2	1012	2024
	25	10.0	2	848	1696
	26	10.0	2	438	876
	27	10.0	2	183	366
	28	10.0	2	1046	2092
	29	10.0	6	449	2694
	30	10.0	2	972	1944
	31	10.0	2	890	1780
	32	10.0	4	128	512
	33	10.0	2	188	376
	34	10.0	2	170	340
	35	10.0	2	755	1510
	36	10.0	4	846	3382
	37	10.0	6	860	5298
	38	10.0	2	883	1766
	39	10.0	2	173	346
	40	10.0	2	840	1680
	41	10.0	2	265	530
	42	10.0	1	183	183
	43	10.0	1	111	111
	44	10.0	2	196	392
	45	10.0	2	942	1884
	46	10.0	2	1002	2004
	47	10.0	4	944	3776
	48	10.0	4	944	3776
	49	10.0	2	235	470
	50	10.0	2	274	548
	51	10.0	2	405	810
	52	10.0	20	414	8280
	53	10.0	14	344	4816
	54	10.0	18	344	6192
	55	10.0	4	335	1340
	56	10.0	2	626	1252
	57	10.0	2	600	1200
	58	12.5	2	193	386
	59	12.5	2	1187	2374
	60	12.5	2	626	1252
	61	12.5	2	595	1190

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	1272.2	862.8
	12.5	54.0	68.1
CA60	5.0	2480.3	420.5
PESO TOTAL (kg)			
CA50	930.8		
CA60	420.5		

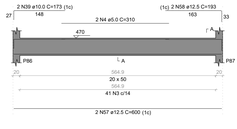
Volume de concreto (C-40) = 24.39 m³
Área de forma = 269.38 m²

V142
ESC 1:50



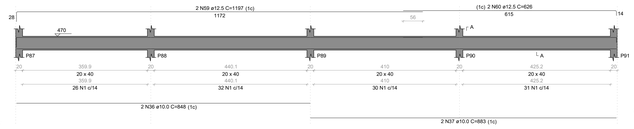
SEÇÃO A-A
ESC 1:25

V143
ESC 1:50



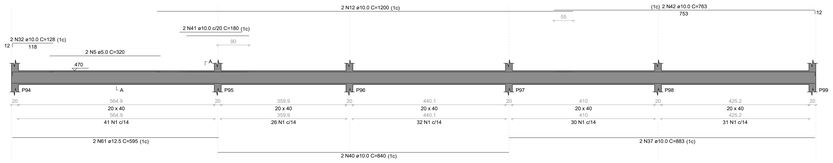
SEÇÃO A-A
ESC 1:25

V144
ESC 1:50

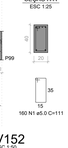


SEÇÃO A-A
ESC 1:25

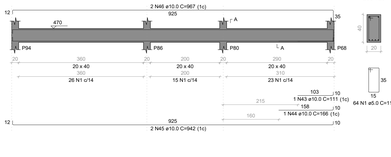
V145
ESC 1:50



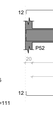
SEÇÃO A-A
ESC 1:25



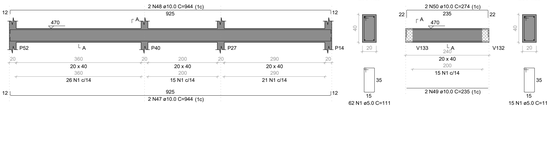
V146
ESC 1:50



SEÇÃO A-A
ESC 1:25

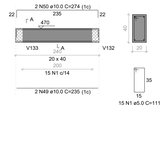


V147
ESC 1:50



SEÇÃO A-A
ESC 1:25

V148
ESC 1:50



SEÇÃO A-A
ESC 1:25

V149
ESC 1:50

SEÇÃO A-A
ESC 1:25

V150
ESC 1:50

SEÇÃO A-A
ESC 1:25

V151
ESC 1:50

SEÇÃO A-A
ESC 1:25

V152
ESC 1:50

SEÇÃO A-A
ESC 1:25

V153
ESC 1:50

SEÇÃO A-A
ESC 1:25

V154
ESC 1:50

SEÇÃO A-A
ESC 1:25

V155
ESC 1:50

SEÇÃO A-A
ESC 1:25

V156
ESC 1:50

SEÇÃO A-A
ESC 1:25

V157
ESC 1:50

SEÇÃO A-A
ESC 1:25

V158
ESC 1:50

SEÇÃO A-A
ESC 1:25

V159
ESC 1:50

SEÇÃO A-A
ESC 1:25

V160
ESC 1:50

SEÇÃO A-A
ESC 1:25

V161
ESC 1:50

SEÇÃO A-A
ESC 1:25

V162
ESC 1:50

SEÇÃO A-A
ESC 1:25

V163
ESC 1:50

SEÇÃO A-A
ESC 1:25

V164
ESC 1:50

SEÇÃO A-A
ESC 1:25

V165
ESC 1:50

SEÇÃO A-A
ESC 1:25

V178
ESC 1:50

SEÇÃO A-A
ESC 1:25

V179
ESC 1:50

SEÇÃO A-A
ESC 1:25

V180
ESC 1:50

SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V169	V170	V171	
V172	V173	V174	
V175	V176	V177	
V178	V179	V180	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	656	111	72816
	2	6.0	2	235	470
CA50	3	10.0	2	972	1944
	4	10.0	2	890	1780
	5	10.0	2	140	280
	6	10.0	6	1199	7194
	7	10.0	2	253	506
	8	10.0	6	972	5832
	9	10.0	6	890	5340
	10	10.0	4	180	720
	11	10.0	2	1122	2244
	12	10.0	2	188	376
	13	10.0	2	291	582
	14	10.0	4	641	2564
	15	10.0	4	654	2616
	16	10.0	2	395	790
	17	10.0	2	414	828
	18	10.0	4	405	1620
	19	10.0	4	344	1376
	20	10.0	4	344	1376
	21	10.0	2	944	1888
	22	10.0	2	944	1888

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	406	275.4
CA60	5.0	732.9	124.3
PESO TOTAL (kg)			
CA50	275.4		
CA60	124.3		

Volume de concreto (C-40) = 7.34 m³
Área de forma = 78.18 m²

V169
ESC 1:50

SEÇÃO A-A
ESC 1:25

V170
ESC 1:50

SEÇÃO A-A
ESC 1:25

V171
ESC 1:50

SEÇÃO A-A
ESC 1:25

V172
ESC 1:50

2 N15 ø