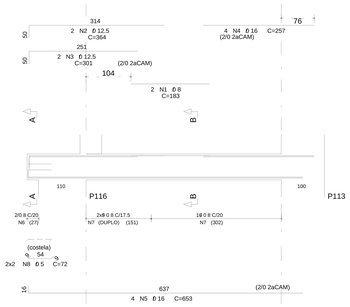
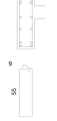
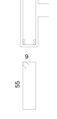
VA822 14/60



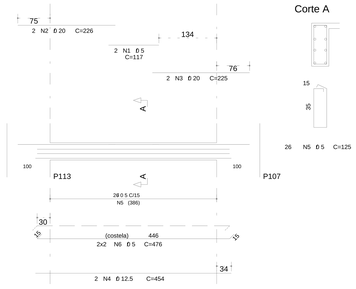
Corte A



Corte B

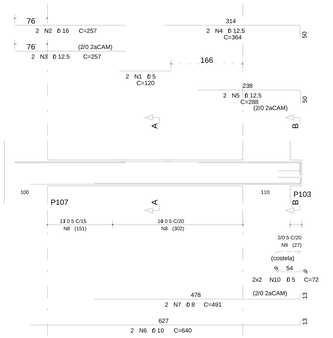


VA823 20/40



Corte A

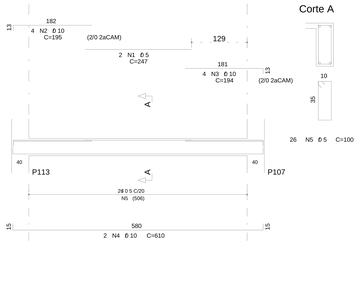
VA824 14/60



Corte A

Corte B

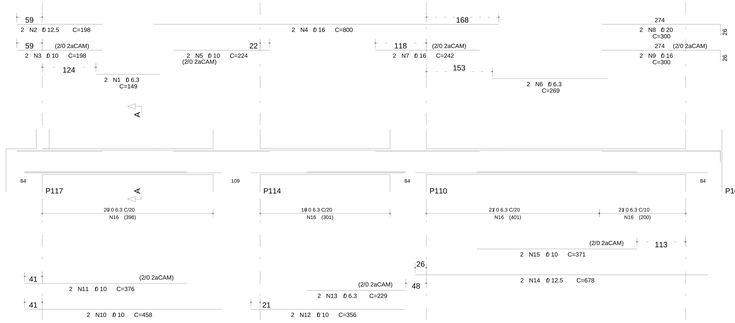
VA825 15/40



Corte A

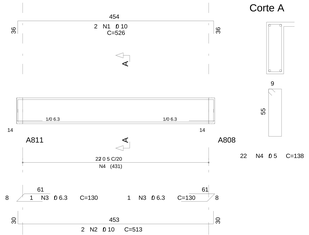
	ACO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
VA822						
	50A	1	8	2	183	366
	50A	2	12.5	2	364	728
	50A	3	12.5	2	301	602
	50A	4	16	4	257	1028
	50A	5	8	2	153	306
	50A	7	8	34	144	4896
	60B	8	5	4	72	288
VA823						
	60B	1	5	2	117	234
	50A	2	20	2	226	452
	50A	3	20	2	225	450
	50A	4	12.5	2	454	908
	60B	5	5	26	125	3250
	60B	6	5	4	470	1904
VA824						
	60B	1	5	2	120	240
	50A	2	16	2	257	514
	50A	3	12.5	2	257	514
	50A	4	12.5	2	364	728
	50A	5	12	2	288	576
	50A	6	12	2	640	1280
	50A	7	8	2	491	982
	60B	8	5	27	138	3726
	60B	9	5	2	147	294
	60B	10	5	4	72	288
VA825						
	60B	1	5	2	247	494
	50A	2	10	4	195	780
	50A	3	10	4	194	776
	50A	4	10	2	610	1220
	60B	5	5	26	100	2600
VA826						
	50A	1	6.3	2	149	298
	50A	2	12.5	2	198	396
	50A	3	10	2	198	396
	50A	4	16	2	800	1600
	50A	5	10	2	224	448
	50A	6	6.3	2	269	538
	50A	7	16	2	242	484
	50A	8	20	2	300	600
	50A	9	16	2	300	600
	50A	10	10	2	458	916
	50A	11	10	2	376	752
	50A	12	10	2	356	712
	50A	13	6.3	2	229	458
	50A	14	12.5	2	678	1356
	50A	15	10	2	371	742
	50A	16	6.3	78	141	10998
VA827						
	50A	1	10	2	526	1052
	50A	2	10	2	513	1026
	50A	3	6.3	2	130	260
	60B	4	5	22	138	3036
VA828						
	50A	1	10	2	408	816
	50A	2	6.3	2	182	364
	50A	3	10	2	396	792
	60B	4	5	16	138	2208
VA829						
	60B	1	5	2	233	466
	50A	2	10	4	203	812
	50A	3	12.5	2	214	428
	50A	4	8	2	214	428
	50A	5	10	2	596	1192
	60B	6	5	26	138	3588
VA830						
	50A	1	12.5	2	665	1330
	50A	2	10	2	617	1234
	50A	3	6.3	2	127	254
	50A	4	8	35	121	5285
	50A	5	8	8	162	1296
	50A	6	6.3	4	507	2028
VSEA801						
	50A	1	12.5	2	216	432
	50A	2	10	2	142	284
	50A	3	6.3	5	150	750
	50A	4	6.3	6	148	888

VA826 14/60



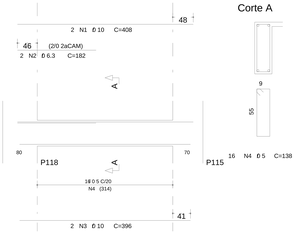
Corte A

VA827 14/60



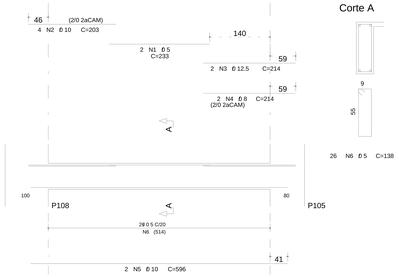
Corte A

VA828 14/60



Corte A

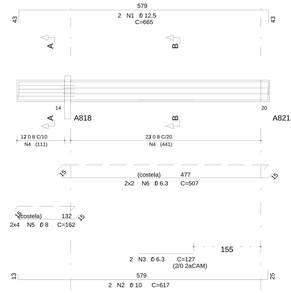
VA829 14/60



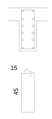
Corte A

RESUMO ACO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	226	36
50A	6.3	168	42
50A	8	130	54
50A	10	92	56
50A	12.5	92	90
50A	16	68	109
50A	20	15	38
Peso Total 60B =			36 kg
Peso Total 50A =			419 kg

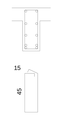
VA830 20/50



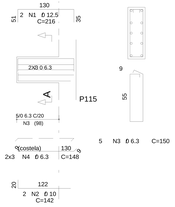
Corte A



Corte B



VSEA801 14/60



Corte A

INDICE:
VA822 A VA830, VSEA901

FCK= 35 MPa
EC = 28 GPa (MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS).
A/C = 0,65 (FATOR AGUA CIMENTO)

COBRIMENTO DA ARMADURA: [1]
- LAJES = 2,0 cm
- VIGAS E PILARES = 2,5 cm
- BLOCOS,BALDRAMES E CONTENCOES (FACE EM CONTATO COM A TERRA) = 3,0 cm

1. ESSES COBRIMENTOS DEVERAO SER GARANTIDOS COM O USO DE ESPACADORES OU PASTILHAS.
COBRIMENTOS ESPECIFICOS EM CONTRARIO AOS VALORES INDICADOS ACIMA, ESTAO INDICADOS NOS DESENHOS DE FORMAS DOS PAVIMENTOS.

NORMAS UTILIZADAS:
NBR-6118/2003 - PROJETO E EXECUCAO DE OBRAS DE CONCRETO ARMADO
NBR-6120/1980 - CARGAS PARA O CALCULO DE ESTRUTURAS DE EDIFICACOES

REV	DATA	DESCRICAO
0	05/01/2010	EMISSAO INICIAL

Simetria Engenharia
PROJETOS ESTRUTURAIS
SIA QUADRA 4E No.51 MAAR 3Fx.370
BRASILIA-DF CEP: 71200-045
FIXO: (0XX61) 3306-9616
simetria@simetria.eng.br

PROJETO ESTRUTURAL

CLIENTE: DISCO INCORPORADORA E IMOBILIARIA LTDA
OBRA: EDIFICIO RESIDENCIAL — No OBRA: XXX
ENDERECO OBRA: SRIA AREA ESPECIAL 04 LOTES G e H - GUARA - DF
DESCRICAO: ARMACAO DAS VIGAS DO 18o PAVIMENTO JUNTA A - TORRE A (02/02)
DESENHO No: 209-XXX

DESENHISTA	DATA	ESCALA	UNIDADE	No PROJ. SIMETRIA
TQSI THIAGO	05/01/2010	1:50	CM	421

ARQUIVO: PLT: 421 -EST- 209-XXX -R00 .PLT
PROPRIETARIO: RESPONSAVEL TECNICO:
RESPONSAVEL TECNICO PELO PROJETO ESTRUTURAL
SIMETRIA ENGENHARIA E PROJETOS S/C LTDA
CREA:2725/RF

SIMETRIA ENGENHARIA DE PROJETOS S/C LTDA PL C:\TQSWIN\QLV\MPC JUNTA A- TORRE A\09-18\PAVIMENTO\VIGAS\VIGAS02.PLT 05/01/2010 16:19:04