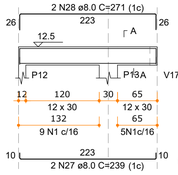
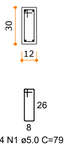
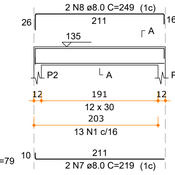
V18
ESC 1:50



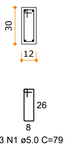
SEÇÃO A-A
ESC 1:25



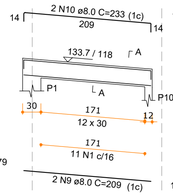
V1
ESC 1:50



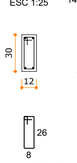
SEÇÃO A-A
ESC 1:25



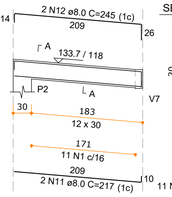
V2
ESC 1:50



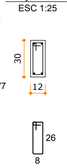
SEÇÃO A-A
ESC 1:25



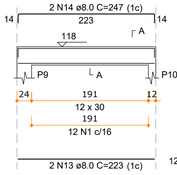
V3
ESC 1:50



SEÇÃO A-A
ESC 1:25

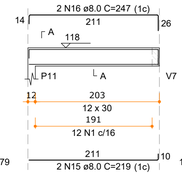


V4
ESC 1:50

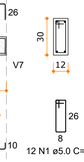


SEÇÃO A-A
ESC 1:25

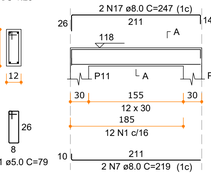
V5
ESC 1:50



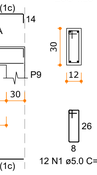
SEÇÃO A-A
ESC 1:25



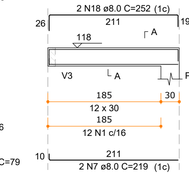
V6
ESC 1:50



SEÇÃO A-A
ESC 1:25

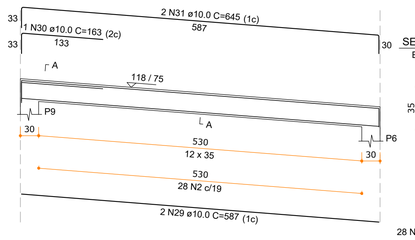


V7
ESC 1:50

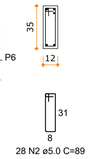


SEÇÃO A-A
ESC 1:25

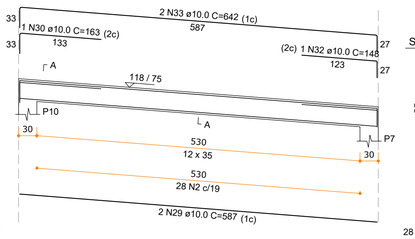
V8
ESC 1:50



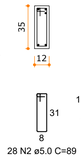
SEÇÃO A-A
ESC 1:25



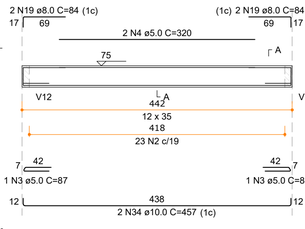
V9
ESC 1:50



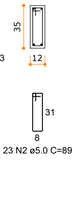
SEÇÃO A-A
ESC 1:25



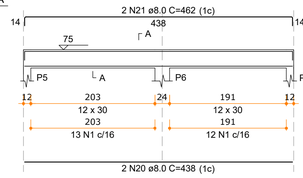
V10
ESC 1:50



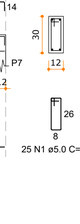
SEÇÃO A-A
ESC 1:25



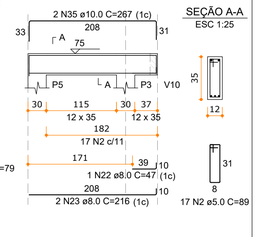
V11
ESC 1:50



SEÇÃO A-A
ESC 1:25

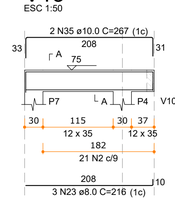


V12
ESC 1:50

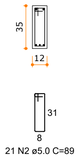


SEÇÃO A-A
ESC 1:25

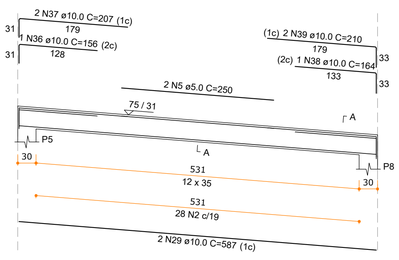
V13
ESC 1:50



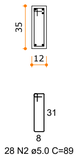
SEÇÃO A-A
ESC 1:25



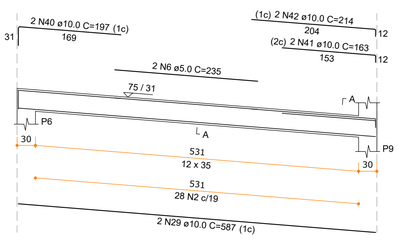
V14
ESC 1:50



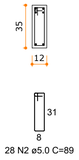
SEÇÃO A-A
ESC 1:25



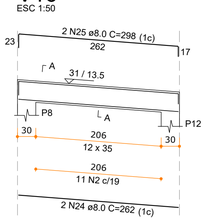
V15
ESC 1:50



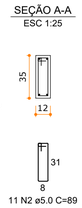
SEÇÃO A-A
ESC 1:25



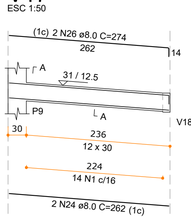
V16
ESC 1:50



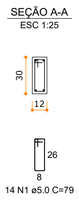
SEÇÃO A-A
ESC 1:25



V17
ESC 1:50



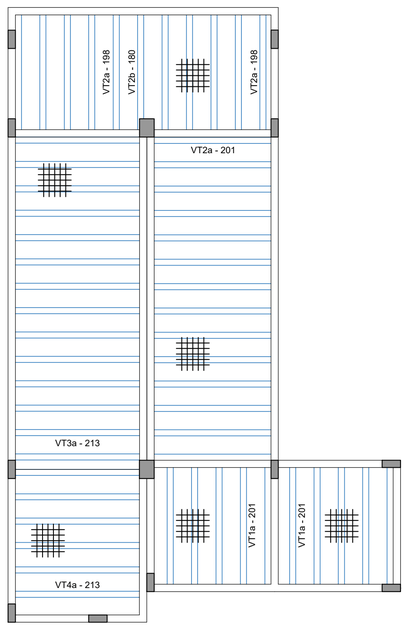
SEÇÃO A-A
ESC 1:25



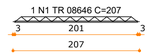
DETALHES DAS VIGAS - ESCALA.: 1/50

Planta de vigotas pré-moldadas

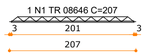
escala 1:50



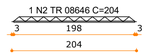
VT1a (5 unidades)
(L1)
ESC 1:50



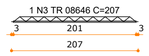
VT1a (4 unidades)
(R1)
ESC 1:50



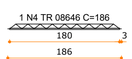
VT2a (10 unidades)
(L2)
ESC 1:50



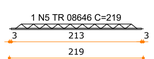
VT2a (13 unidades)
(R2)
ESC 1:50



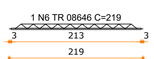
VT2b (1 unidades)
(L2)
ESC 1:50



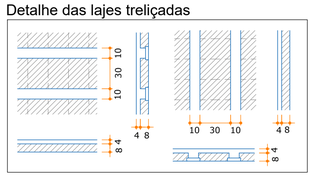
VT3a (13 unidades)
(R3)
ESC 1:50



VT4a (5 unidades)
(R4)
ESC 1:50



Detalhe das lajes treliçadas



Necessidade de armadura de distribuição (positiva)
Utilizar Tela Soldada Q92

RELAÇÃO DO AÇO

5xVT1a
13xVT2a
5xVT4a

4xVT1a
VT2b

10xVT2a
13xVT3a

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	TR 08646	9	207	1863
	2	TR 08646	10	204	2040
	3	TR 08646	13	207	2691
	4	TR 08646	1	186	186
	5	TR 08646	13	219	2847
	6	TR 08646	5	219	1095

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA60	TR 08646	107.2	103
PESO TOTAL (kg)			
CA60	103		

Volume de concreto (C-30) = 2.17 m³
Área de forma = 0.00 m²

DETALHES DAS LAJES - ESCALA.: 1/50

NOTAS

As especificações gerais de material, projeto e execução encontram-se na prancha 01 - Detalhes Gerais.

Dimensões em centímetros, exceto quando indicado.

RELAÇÃO DO AÇO

V1-L2 V2-L2 V3-L2
V4-L2 V5-L2 V6-L2
V7-L2 V8-L2 V9-L2
V10-L2 V11-L2 V12-L2
V13-L2 V14-L2 V15-L2
V16-L2 V17-L2 V18-L1

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	136	79	10744
	2	5.0	184	89	16376
	3	5.0	2	87	174
	4	5.0	2	320	640
	5	5.0	2	250	500
	6	5.0	2	235	470
CA50	7	8.0	6	219	1314
	8	8.0	2	249	498
	9	8.0	2	209	418
	10	8.0	2	233	466
	11	8.0	2	217	434
	12	8.0	2	245	490
	13	8.0	2	223	446
	14	8.0	2	247	494
	15	8.0	2	219	438
	16	8.0	2	247	494
	17	8.0	2	247	494
	18	8.0	2	252	504
	19	8.0	4	84	336
	20	8.0	2	438	876
	21	8.0	2	462	924
	22	8.0	1	47	47
	23	8.0	5	216	1080
	24	8.0	4	262	1048
	25	8.0	2	298	596
	26	8.0	2	274	548
	27	8.0	2	239	478
	28	8.0	2	271	542
	29	10.0	8	587	4696
	30	10.0	2	163	326
	31	10.0	2	645	1290
	32	10.0	1	148	148
	33	10.0	2	642	1284
	34	10.0	2	457	914
	35	10.0	4	267	1068
	36	10.0	1	156	156
	37	10.0	2	207	414
	38	10.0	1	164	164
	39	10.0	2	210	420
	40	10.0	2	197	394
	41	10.0	2	163	326
	42	10.0	2	214	428

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	8.0	129.7	51.2
	10.0	120.3	74.2
CA60	5.0	289	44.6
PESO TOTAL (kg)			
CA50	125.3		
CA60	44.6		

Volume de concreto (C-30) = 2.34 m³
Área de forma = 46.20 m²

QUADRO DE REVISÕES

REVISÃO	DESCRIÇÃO	DATA	DESENHO
R00	EMISSÃO INICIAL	02.05.19	SELTON

APROVAÇÕES

EST Estrutural

PROPRIETÁRIO
MUNICÍPIO DE ITAJAÍ
CNPJ: 83.102.277/0001-52

RESPONSÁVEL TÉCNICO
ROBSON CARLOS SANTOS
CREA/SC 062935-8

MAGNUS engenharia e arquitetura

PROPRIETÁRIO: MUNICÍPIO DE ITAJAÍ
EDIFICAÇÃO: CENTRO DE EDUCAÇÃO PROFESSOR CACILDO ROMAGNANI
ENDEREÇO: EMANOEL JOSÉ REBELLO, 60
CIDADE NOVA | ITAJAÍ/SC
PROJETO: ESTRUTURAL | RAMPA 02
ARQUIVO: 0651.EST.EX.010.Rampa02_Detalhes02:R00
CONTEÚDO: DETALHES VIGAS E LAJES
ETAPA: EXECUTIVO
ESCALA: INDICADA
FOLHA: EST-003

MAGNUS PROJETOS CONSTRUÇÕES E REPRESENTAÇÕES COMERCIAIS LTDA | CREA 086683-1 | CAU 18198-6 | CNPJ 09.549.705/0001-37
Rua Lauro Müller, 853 | Sala 02 - Fazenda | CEP 88301-401 - ITAJAÍ/SC Fone: [47] 3349-9330 / 3348-5561 | magnus@magnusengenharia.com.br