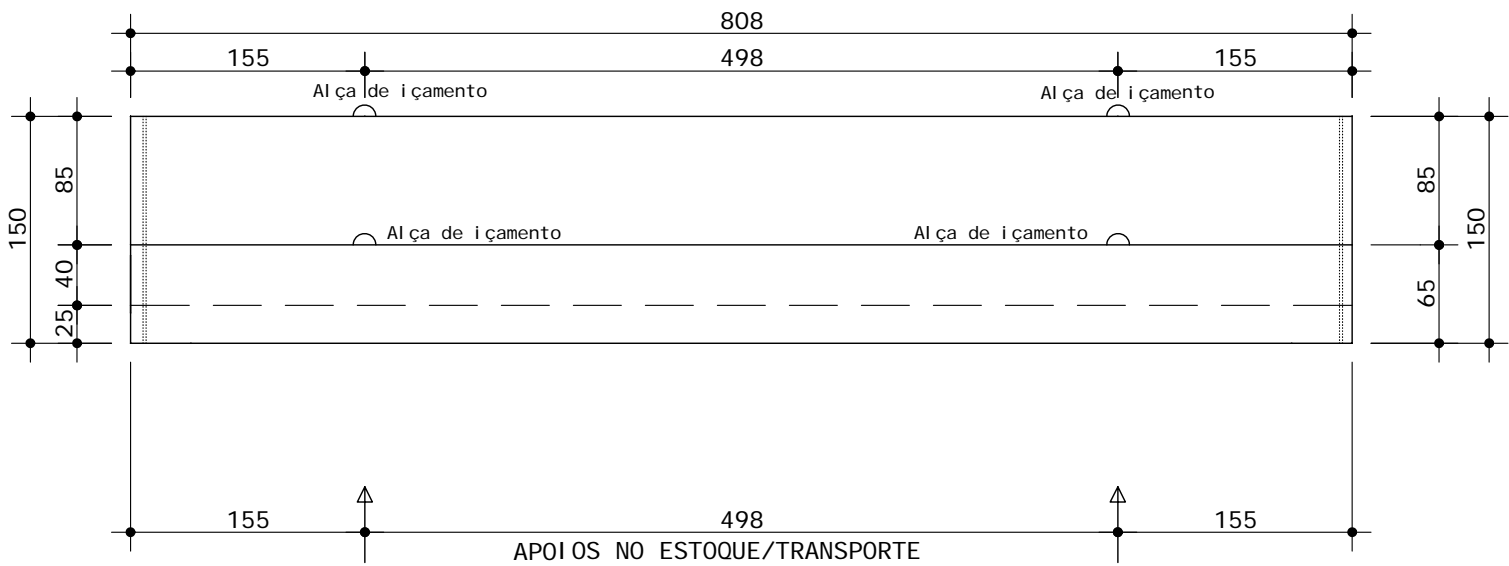
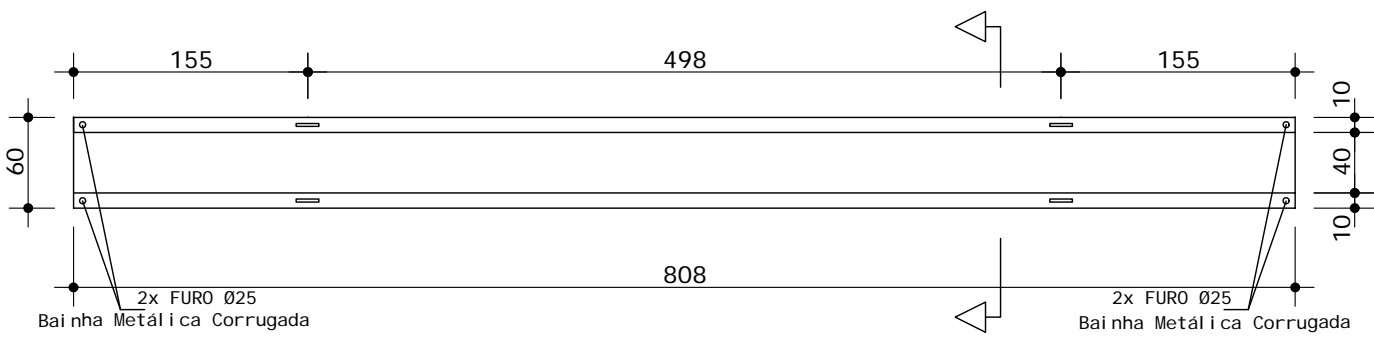


VP103

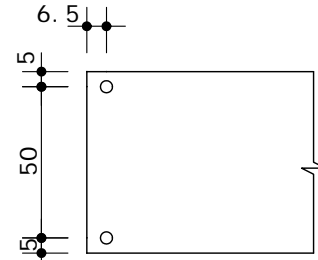
ELEVAÇÃO



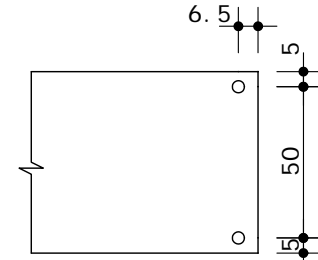
PLANTA



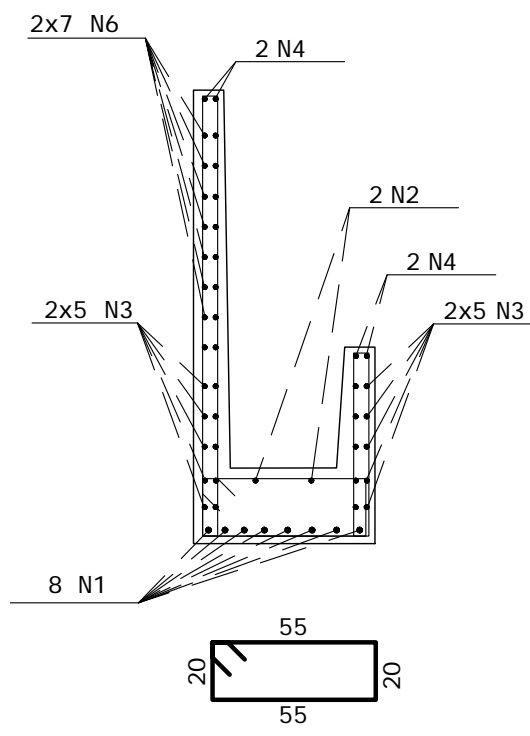
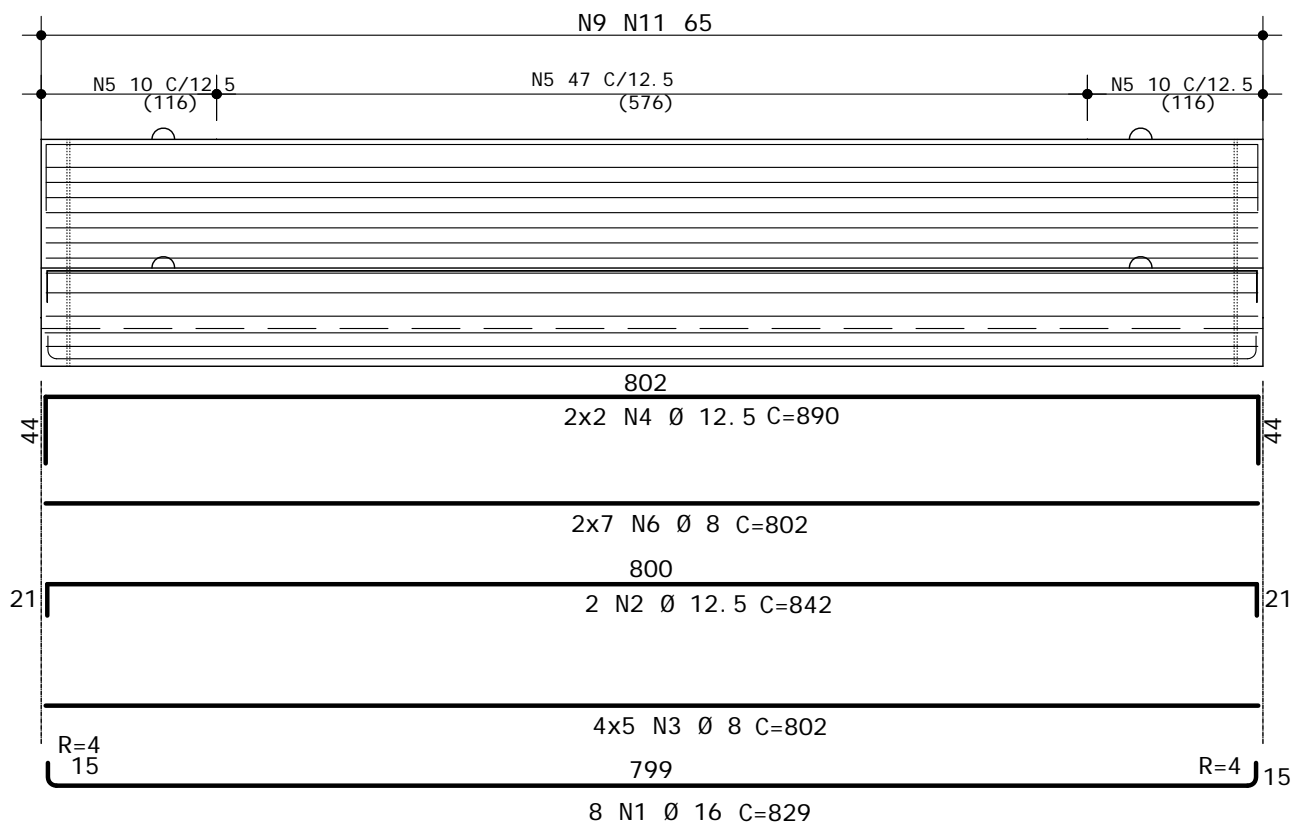
FUROS INICIAIS  
(25 mm)



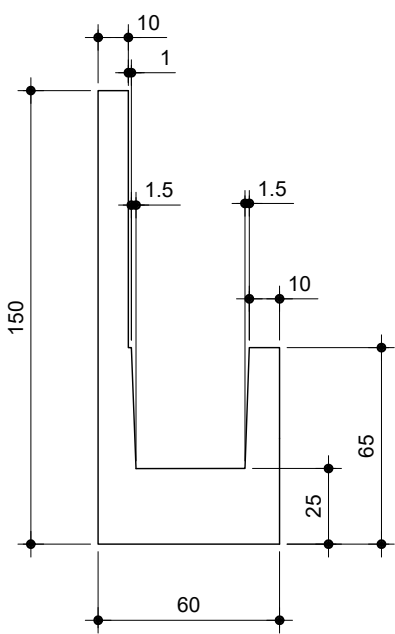
FUROS FINAIS  
(25 mm)



VP103

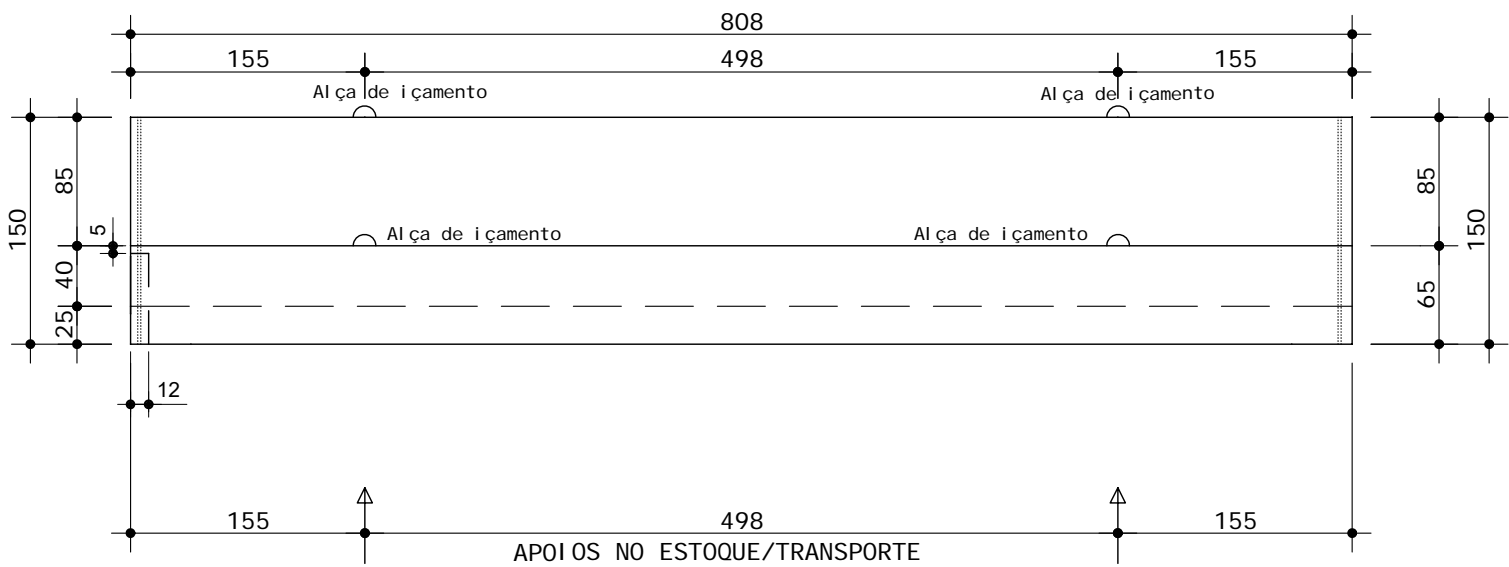


SEÇÃO

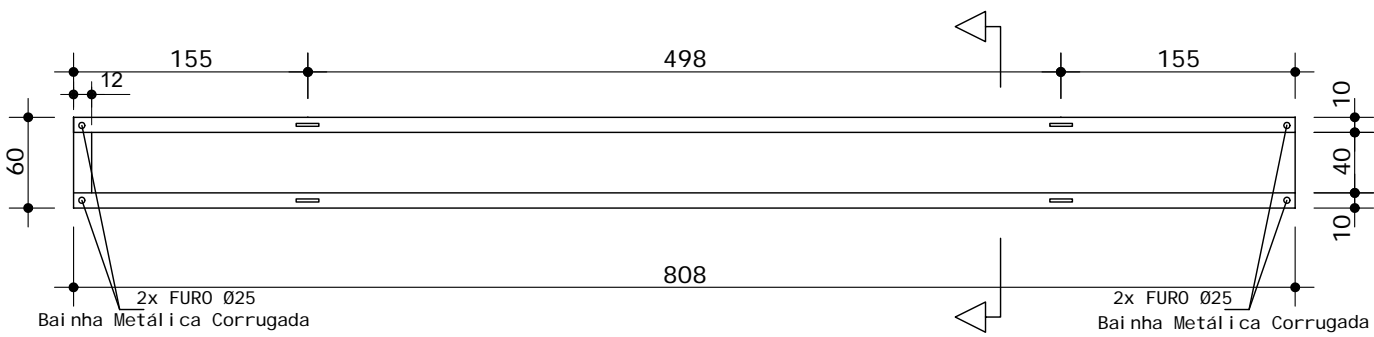


VP103a

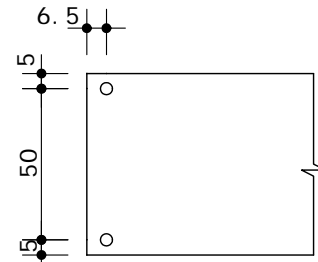
ELEVAÇÃO



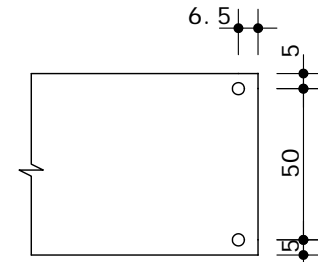
PLANTA



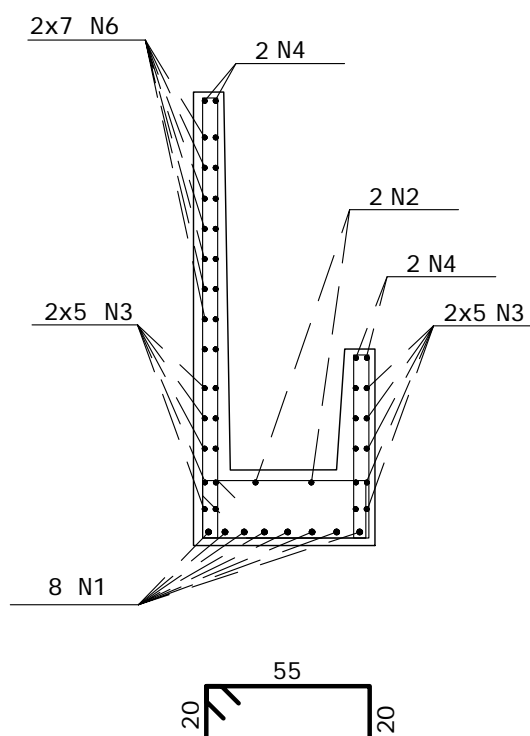
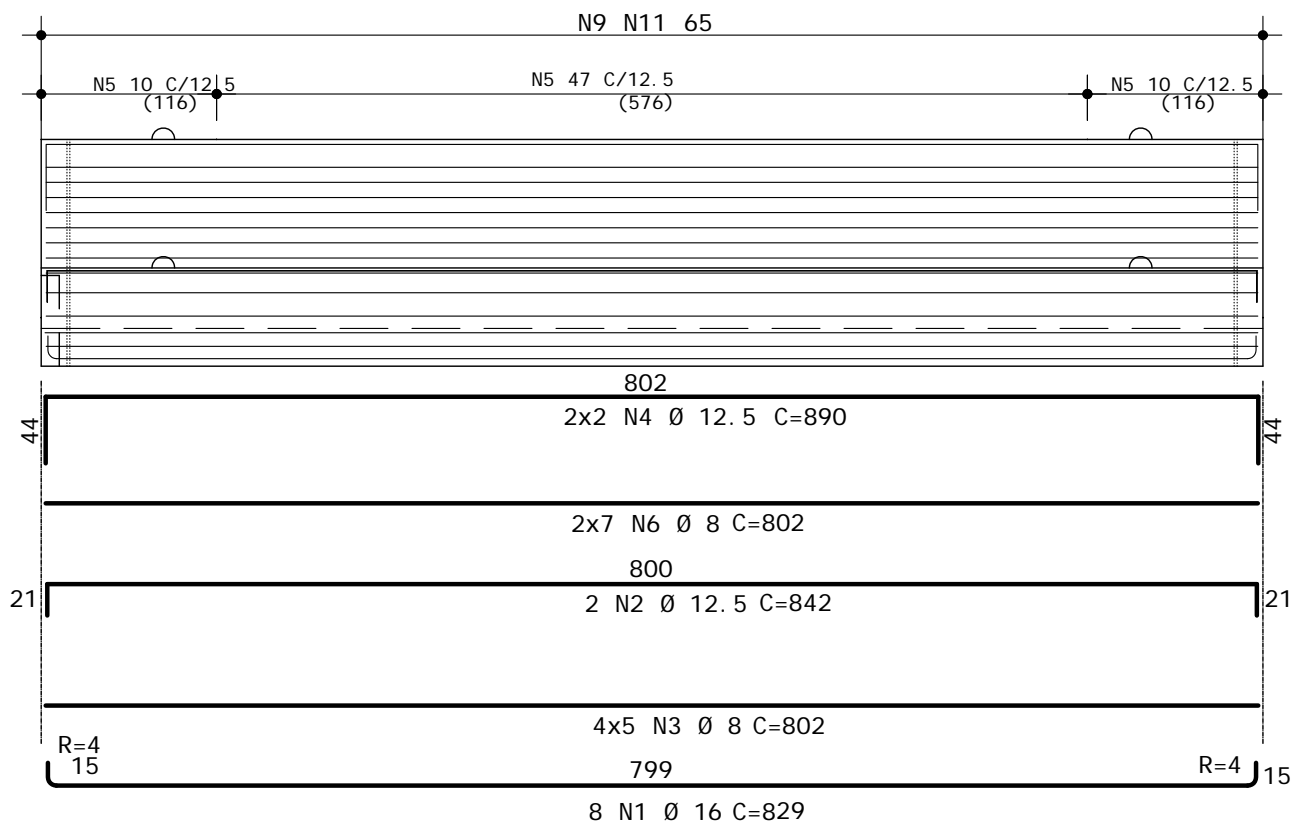
FUROS INICIAIS  
(25 mm)



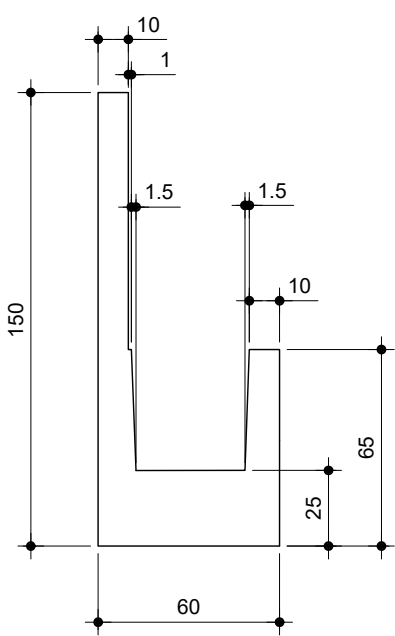
FUROS FINAIS  
(25 mm)



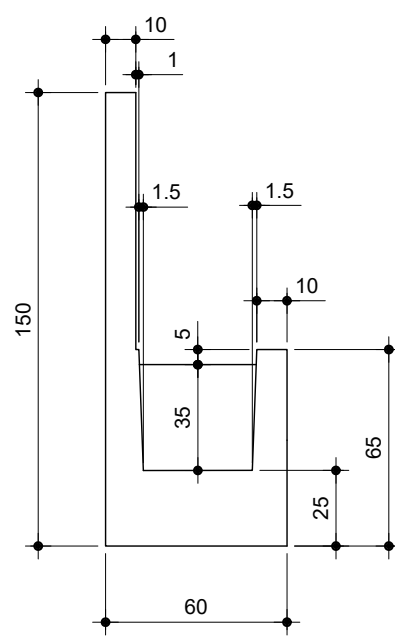
VP103a



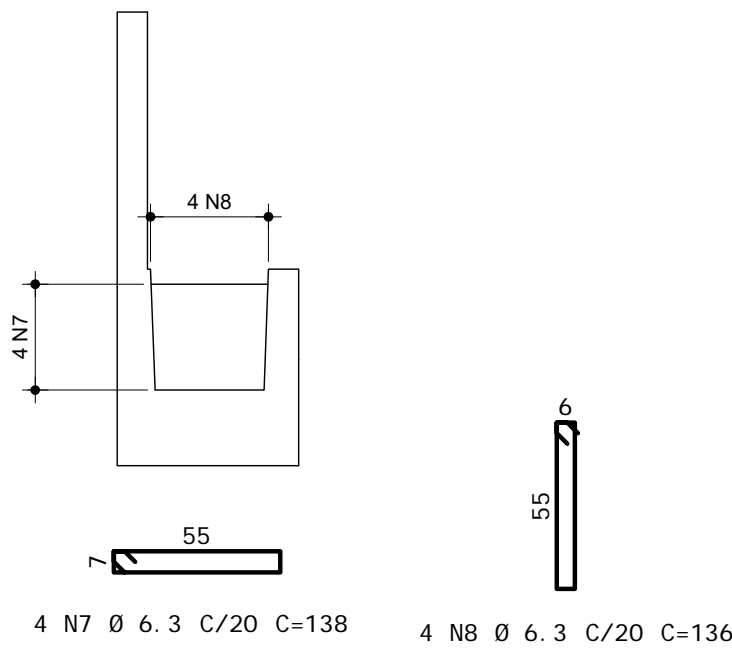
SEÇÃO



EXTREMI DADE ESQUERDA



ARMAÇÃO EXTREMI DADE ESQUERDA



Pavimento	Quant	Vol ume uni t	Vol ume total	Peso uni t	Peso total
Cobertura(1x)	2	2.626	5.252	6.565	13.130
TOTAIS	2		5.252		13.130

AÇO	POS	BI T	QUANT	COMPRI MENTO	UNI T	TOTAL
VP103a (X2)		mm		cm	cm	
50A	1	16	16	829	13264	
50A	2	12.5	4	842	3368	
50A	3	8	40	802	32080	
50A	4	12.5	8	890	7120	
50A	5	6.3	134	176	23584	
50A	6	8	28	802	22456	
50A	7	6.3	8	138	1104	
50A	8	6.3	8	136	1088	
50A	9	6.3	130	314	40820	
50A	11	6.3	130	144	18720	

AÇO	BI T	COMPR	PESO
50A	6.3	853	209
50A	8	545	215
50A	12.5	105	101
50A	16	133	209
Peso Total +10%	50A	=	809 kgf

NOTAS :

- 1- MEDIDAS EM MILÍMETRO, NÍVEIS EM METRO
- 2- CARACTERÍSTICAS DO CONCRETO ESTRUTURAL (CAA II):  
VIGAS PRÉ-FABRICADAS - fck> 40 MPa Ecs >30,1 GPa;  
PILARES PRÉ-FABRICADOS - fck> 40 MPa Ecs >30,1 GPa;  
CONCRETO MOLDADO IN-LOCO - fck> 30 MPa Ecs >26,1 GPa;  
EXECUTAR O GRAUTEAMENTO DA INTERFACE DAS VIGAS, PILARES E LAJES ALVEOLARES COM O MATERIAL:  
GRAUTE:  
- fck > 40 MPa  
- ISENTOS DE RETRAÇÃO,  
- FLUIDEZ ADEQUADA PARA PERFEITO PREENCHIMENTO DO VÃO ENTRE OS ELEMENTOS.
- 4- ELASTÔMERO SIMPLES e=10mm, DUREZA 70 SHORE-A.
- 5- COBRIMENTO = 2,5 CM.

REVISÕES (DISCRIMINAÇÃO)	Nº	DATA	RUBRICA

**CDHU** Companhia de Desenvolvimento Habitacional e Urbano

Rua Boa Vista,170 - São Paulo - Tel.2505.2000 - CNPJ 47.865.597/0001-09

CONTRATO  
SECRETARIA DE DESENVOLVIMENTO ECONÔMICO

PROJETO  
SDE\_074—ETEC JOSÉ MARTIMIANO DA SILVA  
REFORMA E AMPLIAÇÃO

ENDEREÇO / MUNICÍPIO

R. Tamandaré,520—Campos Elíseos—Ribeirão Preto

DISCIPLINA | ÁREA | FOLHA  
**ESTRUTURA** | **EST** | **250/254**

ASSUNTO

ESTRUTURA DE CONCRETO  
PROJETO EXECUTIVO  
ARMAÇÃO DAS VIGAS PRÉ-MOLDADAS 19/21  
BLOCO PEDAGÓGICO

ESCALA GRÁFICA | ESCALA NOMINAL | DATA  
0 1 2 3 (m) | 1:50 | OUT/2021  
ESPAÇO PARA APROVAÇÃO