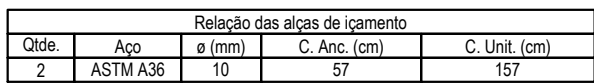
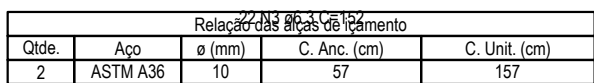


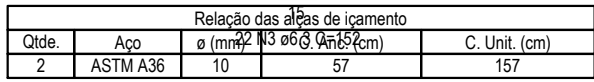
## ESC 1:50



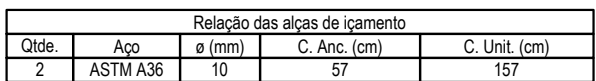
## ESC 1:50



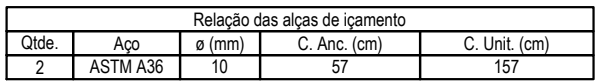
## ESC 1:50



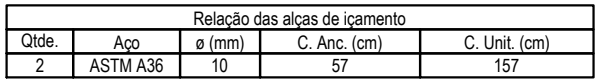
## ESC 1:50



## ESC 1:50



## ESC 1:50



VB28  
VB31

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	31	151	4681
	2	5.0	20	91	1820
CA50	3	6.3	88	152	13376
	4	6.3	29	132	3828
	5	6.3	4	92	368
	6	8.0	50	152	7600
	7	10.0	16	465	7440
	8	10.0	8	488	3904
	9	10.0	4	462	1848
	10	10.0	2	485	970
	11	10.0	2	460	920
	12	16.0	1	471	471
	13	16.0	4	479	1916
	14	20.0	4	151	604
	15	20.0	11	184	2024
	16	20.0	2	215	430
	17	20.0	16	159	2544
	18	20.0	8	215	1720
	19	20.0	3	479	1437
	20	20.0	9	488	4392
	21	20.0	1	477	477
	22	20.0	3	485	1455
	23	20.0	1	154	154
	24	20.0	2	195	390
	25	20.0	2	199	398
	26	20.0	2	460	920

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	175.7	47.3
	8.0	76	33
	10.0	150.8	102.3
	16.0	23.9	41.4
	20.0	169.5	459.7
CA60	5.0	65	11
PESO TOTAL (kg)			
CA50	683.7		
CA60	11		

Volume de concreto (C-40) = 3.28 m<sup>3</sup>

## Halla | arquitetura

Avenida Sete de Setembro, 50, Comercial C. Berri  
Sala 09 | Centro | Timbó | Santa Catarina

47 3333 1815 - 47 99214 4008  
studiohalla3d@gmail.com  
**www.hallarq.com**

## CONSTRUÇÃO INSTITUCIONAL EM ALVENARIA - GINÁSIO ESCOLAR

Rodovia Estadual - SC, 416 - São Roque  
Timbó - SC

**Autor do Projeto:**

**Assinatura**

Anderson Halla  
Arquiteto e Urbanista - CAU nº 176063-7

**Proprietário:**  
Fundo Municipal de Educação - FMDE de Timbó  
CNPJ: 32.257.384/0001-19

**Assinatura**

<b>Escala:</b> Indicada	<b>Revisão:</b> 00	<b>Data:</b> Maio 2020
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**Prancha:**

**Especificação:**

VIGAS PM FUNDAÇÃO VB28-VB33

# E