

(CÁLICE RUGOSO)  
(ESCALA 1:25)

PLANTA

243

197

209.9

47

A

B

Technical drawing of a mechanical part. The part has a total width of 150 and a total height of 150 (65 + 85). The top surface is flat. The front face features a central vertical slot that is 60 units wide at the top and tapers to a narrower width at the bottom. The bottom of the part is supported by two rectangular bases, each 5 units high. The distance between the inner faces of these bases is 150 units.

Architectural drawing of the plan of a hexagonal pavilion. The drawing shows a large outer hexagon with a double-line border and a smaller inner hexagon. A square is inscribed within the hexagon, with a smaller square inside it. The drawing is labeled "PLANTA" at the top. Dimensions are given: a horizontal dimension of 19 N12 C/12.5 and a vertical dimension of 14 N7 C/15. Section lines A-A and B-B are indicated with arrows and labels.

Technical drawing of a cross-section of a reinforced concrete wall with a central opening. The wall has a total height of 6.0 m and a thickness of 0.13 m. The opening is 2.5 m high. Reinforcement is shown with labels N1, N3, and N17. The wall is supported by a foundation.

Diagram illustrating a nested loop structure with four levels of nesting. The loops are labeled VAR, VAR, VAR, and VAR. The ranges for the loops are defined by the numbers 5, 2, 7, and 7, and the variables N10, N9, N5, and N5. The ranges are defined as C/15 C=VAR. The diagram shows the flow of the loops, with the outermost loop (VAR) having a range of 5 N10 0 8 C/15 C=VAR, the second loop (VAR) having a range of 2 N9 0 8 C/15 C=VAR, the third loop (VAR) having a range of 7 N5 0 8 C/15 C=VAR, and the innermost loop (VAR) having a range of 7 N5 0 8 C/15 C=VAR. The diagram also shows the flow of the loops, with the outermost loop (VAR) having a range of 5 N10 0 8 C/15 C=VAR, the second loop (VAR) having a range of 2 N9 0 8 C/15 C=VAR, the third loop (VAR) having a range of 7 N5 0 8 C/15 C=VAR, and the innermost loop (VAR) having a range of 7 N5 0 8 C/15 C=VAR.

Technical drawing of a U-shaped profile. The drawing shows a cross-section of a U-channel. The dimensions are: R=10 (radius of the bottom curve), 210 (width of the bottom flange), 63 (height of the side flange), and 3x3 N6 Ø 25 C=336 (specification of the material and its properties).

6 N13 Ø 10 C/15 C=725

The diagram illustrates a set of nested loops with the following structure:

- Outermost Loop (VAR):** Iterates from 1 to 19. The assignment `C=VAR` is placed at the bottom of the loop body.
- Second Loop (VAR):** Iterates from 1 to 50. The assignment `C=VAR` is placed at the bottom of the loop body.
- Innermost Loop (C):** Iterates from 1 to 50. The assignment `C=VAR` is placed at the bottom of the loop body.

The diagram uses vertical and horizontal lines to represent the boundaries of these nested loops, with the labels 19, 50, and 50 indicating the iteration counts for the outer, middle, and inner loops respectively.

Figure 1 consists of three technical drawings labeled (a), (b), and (c). Drawing (a) is a cross-section of a rectangular specimen, showing a width of 104 mm and a thickness of 11 mm. It includes reinforcement details: N2 Ø 8 C/5 C=245. Drawing (b) is a top view of a square specimen, showing a width of 104 mm and a thickness of 11 mm. It includes reinforcement details: N4. Drawing (c) is a top view of a square specimen, showing a width of 104 mm and a thickness of 11 mm. It includes reinforcement details: N2 Ø 8 C/5 C=245.

CDHU		
ENG. FERNANDO AREVALILLO LLATA	SUP. PROJETOS	
ARO*. ANA MARIA ANTUNES COELHO	GERENTE	
ARO. LUIZ GUSTAVO DELLA NOCE	LIDER	
ARO. ALBERTO BUNDUKI	GESTOR	RRT SI1043932100

JHE		
ENG. LUIZ ROBERTO GUIMARÃES	COORDENADOR	ART 28027230210176583
JHE + GEPRO		
ENG. GERRIVAN DE OLIVEIRA	DESENVOLVIMENTO	ART 28027230211455797

	AÇO	POS	BI T	QUANT	COMPRIIMENTO		
					UNI T	TOTAL	
			mm		cm	cm	
FP1	(X4)						
	50A	1	8	40	245	9800	
	50A	2	8	40	245	9800	
	50A	3	6,3	64	124	7936	
	50A	4	16	68	10912	682	
	50A	5	5	56	-VAR-	7952	
	50A	6	6	56	-VAR-	12096	
	50A	7	8	56	-VAR-	14392	
	50A	8	6,3	16	686	10976	
	50A	9	5	8	2504	2504	
	50A	10	8	20	-VAR-	3720	
	50A	11	6,3	36	-VAR-	8392	
	50A	12	6,3	70	-VAR-	17784	
	50A	13	13	24	725	17400	
	50A	14	6,3	40	8080	8080	
	50A	15	15	3	36	-VAR-	5364
	50A	16	12,5	24	702	16848	
	50A	17	13	16	430	2880	

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	6.3	723	177
50A	8	482	190
50A	10	174	107
50A	12.5	168	162
50A	25	121	466
Peso Total +10%		50A =	1213 kgf

**NOTAS:**

- 1- MEDIDAS EM CENTÍMETRO, NÍVEIS EM METRO
- 2- CARACTERÍSTICAS DO CONCRETO ESTRUTURAL:  
CONCRETO MOLDADO IN LOCO -  $f_{ck} \geq 30$  MPa  $E_{cs} \geq 26,1$  GPa;
- 3- CONFIRMAR MEDIDAS NA OBRA;
- 4- COBRIMENTO = 3 CM.

[illegible]

**CDHU** Companhia de Desenvolvimento Habitacional e Urbano  
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CONTRATO  
SECRETARIA DE DESENVOLVIMENTO ECONÔMICO

PROJETO


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

R. Tamandaré, 520—Campos Elíseos—Ribeirão Preto

DISCIPLINA	ÁREA	FOLHA
ESTRUTURA	EST	222/254

ASSUNTO

ESTRUTURA DE CONCRETO  
PROJETO EXECUTIVO  
ARMAÇÃO DOS BLOCOS COM CÁLICE 5/5  
BLOCO PEDAGÓGICO

ESCALA GRÁFICA	ESCALA NOMINAL	DATA
 0 1 2 3 (m)	1:25	OUT/2021
ESPAÇO PARA APROVAÇÃO		

CÓDIGO CDHU EMPREENDIMENTO										
Projeto					Região		Município		Versão	Etapa do Projeto
0	0	0	6	5	0	6	1	3	0	P E