

Technical drawing of a reinforced concrete slab (Table 10.1) showing a plan view and a cross-section A-A.

Plan View:

- Overall dimensions: 19/40 m by 19/40 m.
- Reinforcement details for the top layer (N7 C/22):
 - Top edge: 2 Ø 12.5, 4 Ø 12.5
 - Bottom edge: 2 Ø 12.5, 4 Ø 12.5
 - Central column (B101): 4 Ø 12.5, 3 Ø 10
 - Corner columns (VB52, VB61): 2 Ø 10, 2 Ø 12.5
- Reinforcement details for the bottom layer (N2 Ø 12.5 C=655):
 - Top edge: 2 N2 Ø 12.5 C=655
 - Bottom edge: 2 N2 Ø 12.5 C=655
 - Central column (B101): 2 N3 Ø 12.5 (1 Ø 2aCAM) C=280
 - Corner columns (VB52, VB61): 2 N3 Ø 12.5 (1 Ø 2aCAM) C=280
- Reinforcement details for the bottom layer (N5 Ø 10 C=200):
 - Central column (B101): 1 N5 Ø 10 C=200
- Reinforcement details for the bottom layer (N4 Ø 10 C=418):
 - Bottom edge: 2 N4 Ø 10 C=418
- Reinforcement details for the bottom layer (N6 Ø 10 C=372):
 - Bottom edge: 2 N6 Ø 10 C=372
- Reinforcement details for the bottom layer (N1 Ø 10 C=366):
 - Bottom edge: 2 N1 Ø 10 C=366

Cross-section A-A:

- Slab thickness: 190 mm.
- Reinforcement details for the top layer (N7 C/22):
 - Top edge: 2 Ø 12.5, 4 Ø 12.5
 - Bottom edge: 2 Ø 12.5, 4 Ø 12.5
 - Central column (B101): 4 Ø 12.5, 3 Ø 10
 - Corner columns (VB52, VB61): 2 Ø 10, 2 Ø 12.5
- Reinforcement details for the bottom layer (N2 Ø 12.5 C=655):
 - Top edge: 2 N2 Ø 12.5 C=655
 - Bottom edge: 2 N2 Ø 12.5 C=655
 - Central column (B101): 2 N3 Ø 12.5 (1 Ø 2aCAM) C=280
 - Corner columns (VB52, VB61): 2 N3 Ø 12.5 (1 Ø 2aCAM) C=280
- Reinforcement details for the bottom layer (N5 Ø 10 C=200):
 - Central column (B101): 1 N5 Ø 10 C=200
- Reinforcement details for the bottom layer (N4 Ø 10 C=418):
 - Bottom edge: 2 N4 Ø 10 C=418
- Reinforcement details for the bottom layer (N6 Ø 10 C=372):
 - Bottom edge: 2 N6 Ø 10 C=372
- Reinforcement details for the bottom layer (N1 Ø 10 C=366):
 - Bottom edge: 2 N1 Ø 10 C=366

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Technical drawing of a mechanical part, showing a side view and a cross-section A-A.

Side View Dimensions:

- Top section: 2 Ø 8, 2 Ø 6.3, 2 Ø 8
- Bottom section: 3 Ø 16
- Section 1: 2 N1 Ø 8 C=183
- Section 2: 2 N2 Ø 6.3 C=495
- Section 3: 1 N3 Ø 16 C=525
- Section 4: 2 N4 Ø 16 C=812

Cross-section A-A Dimensions:

- Top: 2 Ø 8
- Bottom: 3 Ø 16
- Height: 13

Other Dimensions:

- Top: 153, 167
- Bottom: 75, 60, 752
- Left: 30, 30
- Right: 30, 30
- Radius: R=4

Labels:

- 19/60
- Corte A
- B11
- B3
- VB8

Technical drawing of a mechanical part, showing a side view and a cross-section A-A.

Side View Dimensions:

- Overall length: 150
- Section 1: 270, 2 N1 Ø 6.3, C=300
- Section 2: 300, 2 N2 Ø 10, C=150
- Section 3: 315, 2 N4 Ø 10, C=315
- Section 4: 355, 2 N3 Ø 10, C=370
- Section 5: 370, 2 N5 Ø 6.3, C=22

Cross-section A-A Dimensions:

- Top flange: 13
- Web: 34
- Bottom flange: 15

Part Identification: B108, VB72

Material Specification: 15 N5 Ø 6.3 C=108

Technical drawing of a mechanical part, showing a side view and two cross-sections (A-A and B-B).

Side View:

- Total width: 294
- Central slot width: 2 N1 Ø 10 C=354
- Total height: 30

Cross-section A-A:

- Total width: 294
- Central slot width: 2 N1 Ø 10 C=354
- Total height: 30

Cross-section B-B:

- Total width: 294
- Central slot width: 2 N2 Ø 10 C=354
- Total height: 30

Dimensions and Notes:

- Top view dimensions: 19/40, 13 N3 Ø 6.3 C=108
- Section A-A: 2 Ø 10
- Section B-B: 2 Ø 10

Technical drawing of a reinforced concrete slab (L200) showing plan and section views.

Plan View:

- Overall dimensions: 19'60 (width) and 7'52 (length).
- Reinforcement details:
 - N6 C/28, 24 Ø 6.3
 - 2 Ø 6.3
 - 2 Ø 8
 - 2 N1 Ø 8 C=183
 - 2 N2 Ø 6.3 C=495
 - 2 N3 Ø 12.5 C=625
 - 2 N4 Ø 12.5 C=812

Section A-A:

- Dimensions: 13 (top slab), 54 (middle slab), and 30 (bottom slab).
- Reinforcement details:
 - 2 Ø 8
 - 4 Ø 12.5
 - 24 N6 Ø 6.3 C=148

19/60

A-A

N6 C/28
23 Ø 6.3
2 Ø 6.3

2 Ø 8

4 Ø 12.5

B12

B4

153
2 N1 Ø 8 C=183
75

177
2 N5 Ø 8 C=207
30

2 N3 Ø 6.3 C=485

9
2 N2 Ø 12.5 C=615
752

30

2 N4 Ø 12.5 C=812

Corte A

2 Ø 8

4 Ø 12.5

13
54

23 N6 Ø 6.3 C=148

AÇO	POS	BI T	QUANT	COMPRIMENTO		
				UNI T	TOTAL	
		mm		cm	cm	
VB8	50A	1	10	2	366	732
	50A	2	12,5	4	655	2620
	50A	3	12,5	4	280	1120
	50A	4	10	2	418	836
	50A	5	10	1	200	200
VB25	50A	6	10	2	372	744
	50A	7	6,3	48	108	5184
	50A	1	10	2	354	708
	50A	2	10	2	354	708
	50A	3	6,3	13	108	1404
VB40	50A	1	6,3	2	300	600
	50A	2	10	2	150	300
	50A	3	10	2	370	740
	50A	4	10	2	315	630
	50A	5	6,3	15	108	1620
VB61	50A	1	8	2	183	366
	50A	2	6,3	2	495	990
	50A	3	16	1	525	525
	50A	4	16	2	812	1624
	50A	5	8	2	197	394
VB66	50A	6	6,3	24	148	3552
	50A	1	8	2	183	366
	50A	2	12,5	2	615	1230
	50A	3	6,3	2	485	970
	50A	4	12,5	2	812	1624
VB68	50A	5	8	2	207	414
	50A	6	6,3	23	148	3404
	50A	1	6,3	2	300	600
	50A	2	6,3	2	225	450
	50A	3	20	2	770	1540
VB76	50A	4	20	1	345	345
	50A	5	10	2	565	1130
	50A	6	10	1	345	345
	50A	7	10	2	605	1210
	50A	8	10	1	300	300
VB76	50A	9	6,3	41	148	6068
	50A	1	8	2	183	366
	50A	2	6,3	2	495	990
	50A	3	12,5	2	625	1250
	50A	4	12,5	2	812	1624
VB80	50A	5	8	2	197	394
	50A	6	6,3	24	148	3552
	50A	1	8	2	183	366
	50A	2	6,3	2	495	990
	50A	3	12,5	2	625	1250
VB80	50A	4	12,5	2	812	1624
	50A	5	8	2	197	394
	50A	6	6,3	24	148	3552

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	6.3	339	83
50A	8	31	12
50A	10	86	53
50A	12.5	123	119
50A	16	21	34
50A	20	19	46
Peso Total +10%		50A =	382 kgf

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

[illegible]

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	207/254

ESTRUTURA DE CONCRETO
PROJETO EXECUTIVO
ARMAÇÃO DOS BALDRAMES 1/11
BLOCO PEDAGOGICO

ESCALA GRÁFICA	ESCALA NOMINAL	DATA
 0 1 2 3 (m)	1:50	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