

Technical drawing of a reinforced concrete beam (V.B.6) showing cross-sections A, B, and C, and longitudinal sections.

Cross-sections:

- Corte A:** Shows a rectangular cross-section with dimensions 15/40 cm. Reinforcement includes 2 top bars (2 N1 ϕ 12.5, C=10.95) and 2 bottom bars (2 ϕ 12.5).
- Corte B:** Shows a rectangular cross-section with dimensions 15/40 cm. Reinforcement includes 2 top bars (2 N1 ϕ 12.5, C=10.95) and 2 bottom bars (2 ϕ 12.5).
- Corte C:** Shows a rectangular cross-section with dimensions 15/40 cm. Reinforcement includes 2 top bars (2 N1 ϕ 12.5, C=10.95) and 2 bottom bars (2 ϕ 12.5).

Longitudinal sections:

- Top section:** Shows the reinforcement layout along the length of the beam. It includes 2 top bars (2 N1 ϕ 12.5, C=10.95) and 2 bottom bars (2 ϕ 12.5). The total length is 10.81m.
- Bottom section:** Shows the reinforcement layout along the length of the beam. It includes 2 top bars (2 N2 ϕ 12.5, C=10.75) and 2 bottom bars (2 ϕ 12.5). The total length is 10.81m.

Supports and Dimensions:

- Supports:** VB.6, VB.7, VB.8.
- Dimensions:** 15/40 cm (cross-section), 10.81m (total length).

Technical drawing of a reinforced concrete beam (V.B.9) showing a longitudinal section and three cross-sections (Corte A, Corte B, Corte C).

Longitudinal Section:

- Overall length: 10.31m
- Span lengths: 2.0m, 2.5m, 2.0m
- Reinforcement details:
 - Top bars: 2 N1 \varnothing 16 C=1095
 - Bottom bars: 2 \varnothing 16
 - Stirrups: 2 \varnothing 10
 - Section markers: A-A, B-B, C-C

Corte A:

- Dimensions: 20/40
- Reinforcement: 2 N4 \varnothing 20 C=20, 6 \varnothing 6.3

Corte B:

- Dimensions: 20/50
- Reinforcement: 35 N5 \varnothing 6.3 C=130

Corte C:

- Dimensions: 20/40
- Reinforcement: 6 N4 \varnothing 6.3 C=110

[illegible]

Technical drawing of a mechanical assembly, showing three views: a top view, a side view, and two cross-sections (Corte A and Corte B).

Top View:

- Overall width: 781
- Overall height: 32
- Hole specifications: 2 N1 Ø 12.5 C=845
- Dimensions: 15/40 (indicated at points A and B)

Side View:

- Overall width: 34
- Overall height: 9

Corte A and Corte B:

- Dimensions: 15/40 (indicated at points A and B)

Bottom View:

- Overall width: 781
- Overall height: 17
- Hole specifications: 2 N2 Ø 12.5 C=815
- Hole specifications: 2 N3 C/20 Ø 6.3
- Dimensions: 15/40 (indicated at points A and B)

Technical drawing of a reinforced concrete slab (V.B.3) showing plan and section views.

Plan View:

- Overall dimensions: 132m (width) x 70m (length).
- Reinforcement details:
 - 2 N1 Ø 16 C=250
 - 2 N2 Ø 16 C=780
 - 2 N3 Ø 16 C=270
 - 2 N4 Ø 12.5 C=200
 - 2 N5 Ø 16 C=665
 - 2 N6 Ø 15 C=150
 - 2 N7 Ø 10 C=130
 - 2 N8 Ø 10 C=550
 - 2 N9 Ø 10 C=140
 - 2 N10 Ø 10 C=150
- Section views: 20/60, 20/60, 20/60.

Section Views:

- Section A: Shows the slab thickness of 20cm and the reinforcement layout.
- Section B: Shows the slab thickness of 20cm and the reinforcement layout.
- Section C: Shows the slab thickness of 20cm and the reinforcement layout.

AÇO	POS	BIT (mm)	QUANT	COMPIMENTO UNIT (cm)	TOTAL TOTAL (cm)
VB.1=VB.4 (X2)					
	50A	1	12,5	4	1095
	50A	2	12,5	4	1075
	50A	3	6,3	100	1000
VB.2					
	50A	1	16	2	1095
	50A	2	10	4	165
	50A	3	16	2	840
	50A	4	6,3	12	110
	50A	5	6,3	35	130
VB.3					
	50A	1	16	2	1095
	50A	2	16	2	175
	50A	3	16	4	295
	50A	4	20	2	345
	50A	5	16	2	190
	50A	6	6,3	12	110
	50A	7	6,3	22	130
	50A	8	6,3	20	150
	50A	9	10	6	345
VB.5=VB.9 (X2)					
	50A	1	12,5	4	845
	50A	2	12,5	4	815
	50A	3	6,3	76	100
VB.6=VB.8 (X2)					
	50A	1	20	4	845
	50A	2	16	8	165
	50A	3	20	4	615
	50A	4	6,3	36	110
	50A	5	6,3	54	130
	50A	6	10	8	575
VB.7					
	50A	1	16	2	250
	50A	2	16	2	780
	50A	3	16	2	270
	50A	4	12,5	4	200
	50A	5	16	4	665
	50A	6	6,3	51	150
	50A	7	10	6	130
	50A	8	10	6	550
	50A	9	10	6	550
	50A	10	10	6	550

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
50A	6,3	493	123
50A	10	122	77
50A	12,5	161	161
50A	16	145	232
50A	20	65	163
Peso Total		50A =	756 kg

1- DIMENSÕES EM CENTÍMETRO.
2- COBRIMENTO DAS ARMADURAS = 3,0 cm

Ramon Medrano de Almada Secretário de Infraestrutura e Serviços Urbanos	Responsável legal Prefeitura do Município de Itapevi
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ASSUNTO ARMAÇÕES DE VIGAS BALDRAMES		TIPO PROJETO BÁSICO	PROCESSO PMI	FOLHA: C-17
ESC. 1: 50/1: 25	DATA SETEMBRO/2018	DES.	RESP.	REVISÃO 00