

Technical drawing of a roof structure showing a cross-section and two elevation views.

Cross-section (Top):

- Roof width: 24.0 m (N6 C/28)
- Beam width: 2.0 m (Ø 10)
- Offsets: 0.10 m, 0.63 m
- Beam label: B52
- Roof pitch: 6.3%
- Roof thickness: 3.0 m (Ø 20 VB29)

Elevation View (Middle):

- Roof width: 170 m
- Beam width: 2.0 m (N1 Ø 10 C=200)
- Offsets: 0.10 m, 0.90 m
- Roof thickness: 2.0 m (N4 Ø 6.3 C=475)
- Roof pitch: 6.3%

Elevation View (Bottom):

- Roof width: 85 m
- Beam width: 1.0 m (N2 Ø 20 C=480)
- Offsets: 0.20 m, 0.480 m
- Roof thickness: 2.0 m (N3 Ø 20 C=804)
- Roof pitch: 6.3%

Technical drawing showing a cross-section of a mechanical assembly. The main shaft is labeled B56 and B57. The assembly includes a central component labeled VB68. Dimensions are provided for various parts and sections.

Top View Dimensions:

- Overall length: 24 Ø 6.3
- Section 1: 2 Ø 10
- Section 2: 2 Ø 6.3
- Section 3: 2 Ø 10
- Section 4: 4 Ø 16
- Section 5: 2 Ø 10

Side View Dimensions:

- Section 1: 2 N1 Ø 10 C=200
- Section 2: 2 N3 Ø 6.3 C=475
- Section 3: 2 N4 Ø 16 C=605
- Section 4: 2 N2 Ø 16 C=804
- Section 5: 2 N5 Ø 10 C=196
- Section 6: 24 N6 Ø 6.3 C=148

Other Dimensions:

- 170
- 90
- 27
- 744
- 166
- 13
- 54
- R=4

Section A:

- Section A: 2 Ø 10
- Section B: 1 Ø 16

Technical drawing of a reinforced concrete slab (B1) showing reinforcement details. The drawing includes a plan view of the slab with dimensions and reinforcement specifications. Key features include:

- Slab width: 24.0m
- Slab length: 6.3m
- Slab thickness: 0.16m
- Reinforcement: N4 bars at 160mm spacing (N4 Ø 16 C=160)
- Slab is supported by a wall (B1) and a column (C=222)
- Scale bar: 1:200
- North arrow

Technical drawing of a reinforced concrete slab (B55) and its cross-section (Corte A).

Plan View (Top):

- Overall dimensions: 25 N6 C/28, 25 N6 Ø 6.3, 2 Ø 6.3, 2 Ø 10, 3 Ø 16, 2 Ø 10.
- Reinforcement details: 208, 2 N1 Ø 10 C=238, 75, 200, 2 N5 Ø 10 C=230, 2 N2 Ø 6.3 C=535, 61, 1 N3 Ø 16 C=565, 744, 2 N4 Ø 16 C=B04, R=4, B56.

Cross-Section (Corte A):

- Dimensions: 2 Ø 10, 3 Ø 16, 13, 15.

Additional Information:

- Label: Corte A
- Reinforcement: 25 N6 Ø 6.3 C=148

Technical drawing of a reinforced concrete slab (B5) showing reinforcement details. The drawing includes a plan view of the slab with dimensions and reinforcement specifications, and a cross-section view showing the slab thickness and reinforcement layout. The plan view shows a rectangular slab with dimensions 154 x 190. Reinforcement is provided with 2 N1 Ø 8 bars at the top and 2 N2 Ø 6,3 bars at the bottom. The cross-section view shows the slab thickness of 61 mm and the reinforcement layout with 1 N3 Ø 16 bars at the bottom and 2 N4 Ø 16 bars at the top. The drawing is labeled B5 and includes a scale of 1:4.

Technical drawing of a mechanical part, showing a front view and a cross-section labeled "Corte A".

Front View Dimensions:

- Top flange: 2 Ø 10, N6 C/28, 25 Ø 6.3, 2 Ø 10
- Main body: B57, VB72, 3 Ø 20, B58
- Base: 30, 2 N1 Ø 10 C=200, 90, 170, 2 N5 Ø 10 C=226, 196, 2 N3 Ø 6.3 C=505, 69, 1 N2 Ø 20 C=525, 744, 2 N4 Ø 20 C=804, R=8, R=8

Corte A Dimensions:

- Top flange: 2 Ø 10, 3 Ø 20
- Base: 13, 25 N6 Ø 6.3 C=148

Technical drawing of a roof truss (Dachstuhl) showing the plan view (A-A) and the elevation view (B-B).

Plan View (A-A):

- Overall width: 25 m
- Overall length: 20 m
- Central ridge: 2 N6 C/28
- Side gables: 2 N5 Ø 8 C=181
- Internal dimensions: 2 Ø 6.3, 3 Ø 16

Elevation View (B-B):

- Overall height: 181 m
- Overall width: 25 m
- Central ridge: 2 N1 Ø 10 C=211
- Side gables: 2 N2 Ø 6.3 C=535
- Internal dimensions: 2 Ø 6.3, 3 Ø 16

Technical drawing of a bridge deck cross-section (Corte A) showing reinforcement details. The drawing includes a top view of the deck with reinforcement bars (N5 C/28, 26 Ø 6.3) and a side view showing the deck thickness (13 cm) and reinforcement layout. The side view shows a top layer with 2 N2 Ø 10 C=230 and a bottom layer with 2 N1 Ø 6.3 C=540. The deck is supported by two columns (B24 and B25) with a central pier (5 Ø 1W67). The drawing also shows the reinforcement for the deck slabs (2 N4 Ø 16 C=550 and 3 N3 Ø 16 C=804) and the reinforcement for the columns (2 Ø 2aCAM).

Technical drawing of a mechanical part, likely a bracket or support, showing front, side, and detail views.

Front View: Shows a base with dimensions 17 Ø 6.3, 2 Ø 10, 2 Ø 10, and 4 Ø 16. The part is labeled B105 and B104.

Side View: Shows a height of 31 and a width of 154. The part is labeled B105 and B104.

Detail View: Shows a hole with dimensions 2 N2 Ø 10 C=185 and 2 N1 Ø 6.3 C=210. The part is labeled B105 and B104.

Other Dimensions: 17 N5 Ø 6.3 C=108, 17 N4 Ø 16 C=330, 17 N3 Ø 16 C=445, 17 N2 Ø 10 C=185, 17 N1 Ø 6.3 C=210, 17 N4 Ø 16 C=330, 17 N3 Ø 16 C=445, 17 N2 Ø 10 C=185, 17 N1 Ø 6.3 C=210.

AÇO	POS	BI T	QUANT	COMPRIMENTO		
				UNI T	TOTAL	
		mm		cm	cm	
VB1						
	50A	1	8	2	222	444
	50A	2	16	1	535	535
	50A	3	16	2	812	1624
	50A	4	6,3	2	510	1020
	50A	5	10	2	230	460
VB3	50A	6	6,3	24	148	3552
	50A	1	10	2	211	422
	50A	2	6,3	2	535	1070
	50A	3	16	1	565	565
	50A	4	16	2	804	1608
VB5	50A	5	8	2	181	362
	50A	6	6,3	25	148	3700
	50A	1	8	2	184	368
	50A	2	6,3	2	535	1070
	50A	3	16	1	565	565
VB19	50A	4	16	2	804	1608
	50A	5	10	2	220	440
	50A	6	6,3	25	148	3700
	50A	1	6,3	2	540	1080
	50A	2	10	4	230	920
VB43	50A	3	16	3	804	2412
	50A	4	16	2	550	1100
	50A	5	6,3	26	148	3848
	50A	1	10	2	238	476
	50A	2	6,3	2	535	1070
VB44	50A	3	16	1	565	565
	50A	4	16	2	804	1608
	50A	5	10	2	230	460
	50A	6	6,3	25	148	3700
	50A	1	10	2	200	400
VB45	50A	2	16	2	804	1608
	50A	3	6,3	2	475	950
	50A	4	16	2	605	1210
	50A	5	10	2	196	392
	50A	6	6,3	24	148	3552
50A	1	10	2	200	400	
VB81	50A	2	20	1	525	525
	50A	3	6,3	2	505	1010
	50A	4	20	2	804	1608
	50A	5	10	2	226	452
	50A	6	6,3	25	148	3700
50A	1	6,3	2	210	420	
VB83	50A	2	10	4	185	740
	50A	3	16	2	445	890
	50A	4	16	2	330	660
	50A	5	6,3	17	108	1836
	50A	1	10	2	200	400
VB83	50A	2	20	1	480	480
	50A	3	20	2	804	1608
	50A	4	6,3	2	475	950
	50A	5	10	2	196	392
	50A	6	6,3	24	148	3552

RESUMO DE AÇO				
AÇO	BIT	COMPR	PESO	
	mm	m	kgf	
50A	6.3	398	97	
50A	8	12	5	
50A	10	64	39	
50A	16	166	261	
50A	20	42	104	
Peso Total +10%		50A =	558 kgf	

- 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.

REVISÕES (DISCRIMINAÇÃO)	Nº	DATA	RUBRICA