

Corte A

Top view dimensions and reinforcement:

- Overall width: 23'0" (N6 Ø 6.3 C=28)
- Overall length: 177'0" (N5 Ø 8 C=207)
- Internal width dimension: 20'8"
- Internal length dimension: 153'0" (N1 Ø 8 C=183)
- Internal width dimension: 4'0" (N3 Ø 6.3 C=485)
- Internal length dimension: 75'0"
- Internal width dimension: 2'0" (N2 Ø 12.5 C=615)
- Internal length dimension: 9'0"
- Internal width dimension: 2'0" (N4 Ø 12.5 C=812)
- Internal length dimension: 752'0"

Side view dimensions and reinforcement:

- Overall height: 13'0"
- Internal height dimension: 5'4"
- Reinforcement: 23 N6 Ø 6.3 C=148

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

Side View Dimensions:

- Top diameters: 2 Ø 16, 2 Ø 6.3, 2 Ø 6.3
- Bottom diameter: 3 Ø 10
- Lengths: 292, 485, 172, 744
- Radius: R=12
- Ends: B38, B32

Cross-section A-A Dimensions:

- Width: 13
- Height: 54
- Central hole: 2 Ø 6.3

Bottom View Dimensions:

- Top diameters: 2 N1 Ø 16 C=322, 2 N2 Ø 6.3 C=515
- Bottom diameters: 1 N4 Ø 10 C=415, 2 N3 Ø 10 C=804

Technical drawing of a reinforced concrete slab (B27) showing top and side views with dimensions and reinforcement details.

Top View:

- Overall width: 23.0 m (23 Ø 6.3)
- Overall length: 19.80 m (2 Ø 8, 23 Ø 6.3, 2 Ø 8)
- Reinforcement: 2 N1 Ø 8 C=183, 2 N5 Ø 8 C=217, 2 N4 Ø 6.3 C=470, 2 N3 Ø 12.5 C=605, 2 N2 Ø 12.5 C=804
- Dimensions: 153, 187, 75, 6, 744

Side View:

- Thickness: 13 cm
- Reinforcement: 2 Ø 8, 4 Ø 12.5

Section A-A:

- Section line A-A is indicated across the top view.
- Section A-A shows the slab thickness and reinforcement details.

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

Side View Dimensions:

- Overall length: 220 ± 0.3
- Section A-A: 724
- Section B31: 30
- Section B23: 30
- Section V820: 30 ± 0.3
- Section N1: 2 N1 Ø 6.3 C=784
- Section N3: 1 N3 Ø 12.5 C=510
- Section N2: 2 N2 Ø 12.5 C=784

Cross-section A-A Dimensions:

- Overall width: 220 ± 0.3
- Section A-A: 724
- Section B31: 30
- Section B23: 30
- Section V820: 30 ± 0.3
- Section N1: 2 N1 Ø 6.3 C=784
- Section N3: 1 N3 Ø 12.5 C=510
- Section N2: 2 N2 Ø 12.5 C=784

Section A-A Details:

- Section A-A: 724
- Section B31: 30
- Section B23: 30
- Section V820: 30 ± 0.3
- Section N1: 2 N1 Ø 6.3 C=784
- Section N3: 1 N3 Ø 12.5 C=510
- Section N2: 2 N2 Ø 12.5 C=784

Section A-A Dimensions:

- Overall width: 220 ± 0.3
- Section A-A: 724
- Section B31: 30
- Section B23: 30
- Section V820: 30 ± 0.3
- Section N1: 2 N1 Ø 6.3 C=784
- Section N3: 1 N3 Ø 12.5 C=510
- Section N2: 2 N2 Ø 12.5 C=784

Section A-A Details:

- Section A-A: 724
- Section B31: 30
- Section B23: 30
- Section V820: 30 ± 0.3
- Section N1: 2 N1 Ø 6.3 C=784
- Section N3: 1 N3 Ø 12.5 C=510
- Section N2: 2 N2 Ø 12.5 C=784

Section A-A Dimensions:

- Overall width: 220 ± 0.3
- Section A-A: 724
- Section B31: 30
- Section B23: 30
- Section V820: 30 ± 0.3
- Section N1: 2 N1 Ø 6.3 C=784
- Section N3: 1 N3 Ø 12.5 C=510
- Section N2: 2 N2 Ø 12.5 C=784

Section A-A Details:

- Section A-A: 724
- Section B31: 30
- Section B23: 30
- Section V820: 30 ± 0.3
- Section N1: 2 N1 Ø 6.3 C=784
- Section N3: 1 N3 Ø 12.5 C=510
- Section N2: 2 N2 Ø 12.5 C=784

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

Side View Dimensions:

- Overall width: 752
- Overall height: 197.60
- Base thickness: 30
- Base material: 2 N1 Ø 6.3 C=812
- Vertical support material: 2 N2 Ø 16 C=812
- Radius: R=4

Corte A-A Dimensions:

- Width: 22
- Height: 197.60
- Material: 2 Ø 6.3

Scale: 1:1

Technical drawing of a reinforced concrete slab (B9) with dimensions and reinforcement details.

Plan View Dimensions:

- Overall length: 19.80m
- Overall width: 3.20m
- Reinforcement bar spacing: 23 N6 Ø 6.3 C=28, 2 N4 Ø 8 C=475, 2x3 N3 Ø 6.3 C=728, 2 N2 Ø 20 C=812
- Offsets: 180, 75, 162, 48, 752
- Radius: R=8

Corte A (Cross-section):

- Slab thickness: 13
- Reinforcement bar diameter: Ø 6.3
- Reinforcement bar spacing: 23 N6 Ø 6.3 C=148

ESTRUTURA DE CONCRETO
PROJETO EXECUTIVO
ARMAÇÃO DOS BALDRAMES 2/11
BLOCO PEDAGOGICO

Corte A

| | | |
|-----------------------|-----------------|----------|
| ESCALA: GRAFICA | ESCALA: NOMINAL | DATA |
| 0 1 2 3 (m) | 1:50 | OUT/2021 |
| ESPAÇO PARA APROVAÇÃO | | |

| | AÇO | POS | BIT | QUANT | COMPRIMENTO | |
|-----------------------|-----|-----|-------|-------|-------------|-------|
| | | | | | UNI T | TOTAL |
| | | | mm | | cm | cm |
| VB9 | 50A | 1 | 8 | 2 | 210 | 420 |
| | 50A | 2 | 20 | 2 | 812 | 1624 |
| | 50A | 3 | 6, 3 | 6 | 728 | 4368 |
| | 50A | 4 | 8 | 2 | 475 | 950 |
| | 50A | 5 | 8 | 2 | 192 | 384 |
| | 50A | 6 | 6, 3 | 23 | 148 | 3404 |
| VB57 | 50A | 1 | 16 | 2 | 322 | 644 |
| | 50A | 2 | 6, 3 | 2 | 515 | 1030 |
| | 50A | 3 | 10 | 2 | 804 | 1608 |
| | 50A | 4 | 10 | 1 | 415 | 415 |
| | 50A | 5 | 6, 3 | 22 | 148 | 3256 |
| VB58 | 50A | 1 | 6, 3 | 2 | 784 | 1568 |
| | 50A | 2 | 12, 5 | 2 | 784 | 1568 |
| | 50A | 3 | 12, 5 | 1 | 510 | 510 |
| | 50A | 4 | 6, 3 | 22 | 148 | 3256 |
| VB70 | 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 |
| | 50A | 5 | 8 | 2 | 207 | 414 |
| | 50A | 6 | 6, 3 | 23 | 148 | 3404 |
| VB71 | 50A | 1 | 10 | 2 | 335 | 670 |
| | 50A | 2 | 10 | 2 | 305 | 610 |
| | 50A | 3 | 6, 3 | 12 | 108 | 1296 |
| VB74=VB74a=VB74b (X3) | 50A | 1 | 16 | 6 | 322 | 1932 |
| | 50A | 2 | 6, 3 | 6 | 515 | 3090 |
| | 50A | 3 | 10 | 6 | 804 | 4824 |
| | 50A | 4 | 10 | 3 | 415 | 1245 |
| | 50A | 5 | 6, 3 | 78 | 148 | 11544 |
| VB75 | 50A | 1 | 6, 3 | 2 | 784 | 1568 |
| | 50A | 2 | 16 | 2 | 784 | 1568 |
| | 50A | 3 | 6, 3 | 22 | 148 | 3256 |
| VB77 | 50A | 1 | 6, 3 | 2 | 812 | 1624 |
| | 50A | 2 | 16 | 2 | 812 | 1624 |
| | 50A | 3 | 6, 3 | 22 | 148 | 3256 |
| VB79 | 50A | 1 | 8 | 2 | 183 | 366 |
| | 50A | 2 | 12, 5 | 2 | 604 | 1608 |
| | 50A | 3 | 12, 5 | 2 | 805 | 1210 |
| | 50A | 4 | 6, 3 | 2 | 470 | 940 |
| | 50A | 5 | 8 | 2 | 217 | 434 |
| | 50A | 6 | 6, 3 | 23 | 148 | 3404 |

| RESUMO DE AÇO | | | |
|-----------------|-----------|------------|-------------|
| AÇO | BIT mm | COMPR m | PESO kgf |
| 50A | 6,3 | 512 | 126 |
| 50A | 8 | 33 | 13 |
| 50A | 10 | 94 | 58 |
| 50A | 12,5 | 78 | 75 |
| 50A | 16 | 58 | 91 |
| 50A | 20 | 16 | 40 |
| Peso Total +10% | 50A = | | 442 kgf |

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

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