

Technical drawing showing a cross-section (Corte B-B) of a concrete slab. The drawing includes a plan view at the top and a cross-section view below.

Plan View (Top):

- Dimensions: 11 and b .
- Section line A-A.
- Reinforcement: GRELHA DE FERRO #20.0 OU GRELHA FUMINS.

Cross-Section View (Bottom):

- Dimensions: 3, 10, 2, and h .
- Reinforcement: GRELHA DE FERRO #20.0 OU GRELHA FUMINS.
- Concrete base: LASTRO DE BRITA No 1.
- Label: LAJE DE FUNDO.
- Material: TELA TOLON Q-136.
- Strength: $f_{ck} = 20\text{MPa}$.

Section Line: Corte B-B

Scale: ESCALA 1:10

Technical drawing of a reinforced concrete beam cross-section. The beam has a total width of 0.30m and a total height of 0.45m. The top flange has a width of 0.15m and a thickness of 0.10m. The web has a width of 0.15m. The bottom flange has a width of 0.19m and a thickness of 0.10m. The beam is reinforced with 4 bars (4φ) in the top flange, 4 bars (4φ) in the web, and 4 bars (4φ) in the bottom flange. The top flange is labeled "APÓIO SEMI-COINCO (CONCRETO MARGO) fck ≥ 15 MPa". The web is labeled "DEL. A". The bottom flange is labeled "CONCRETO MARGO fck ≥ 11 MPa". A 10% slope is indicated on the bottom flange.

Technical drawing of a reinforced concrete slab (DETA A) showing dimensions and material specifications.

Dimensions:

- Overall width: 0.30
- Overall height: 0.20
- Horizontal segments: 0.10, 0.15, 0.15
- Vertical segments: 0.10, 0.15
- Radius: 0.10
- Overall length: 0.45

Material Specifications:

- ARMO SEMI-CONCRETO (CONCRETO MARMO) $f_{ck} \geq 15 \text{ MPa}$
- CONCRETO MARMO $f_{ck} \geq 11 \text{ MPa}$

Other Labels:

- DET. A
- 40%
- VAR.

TELA TELCON O-136

3 10 2 h

8 3

11 b 11

9cm

ALVENARIA DE BLOCO e = 9cm

CONCRETO fck = 20MPa

LASTRO DE BRITA Nº 1

REVESTIMENTO DE ARGAMASSA
TRAÇO 1:3, e = 2cm

GRELHA DE FERRO Ø20,0
OU GRELHA FILAMAS.

CORTE A-A

ESCALA 1:10

Technical drawing of a concrete slab (CHÃO DE 60 A 90) showing dimensions and reinforcement details.

The drawing includes a cross-section view on the left and a top view on the right.

Dimensions:

- Overall width: 10
- Overall height: 13
- Top width of cutout: 10
- Bottom width of cutout: 10
- Height of cutout: 10
- Slope of cutout sides: 10%

Reinforcement and Material:

- Material: CONCRETO MARGO
- Reinforcement ratio: 10%
- Reinforcement type: CHÃO 3x3

ESCALA 1:10

Technical drawing of a mechanical part, showing a front view and a section line A-A. The part is a rectangular block with a central circular hole. The dimensions are as follows:

- Overall width: 21
- Overall height: 21
- Inner circular hole diameter: 21
- Section line A-A is indicated by a horizontal line with arrows pointing to the right, labeled 'A' at the right end.

PROFUNDIDADE DO PV $H \leq 350$

VÁRIÁVEL
= 250

LAJE DA TAMPA

REVESTIMENTO COM

ALVENARIA DE BLOCO DE CONCRETO

ALVENARIA DE BLOCO DE CONCRETO CURVO OU TIPOLO COMUM.

CONCRETO $f_{ck} \geq 15MPa$

TD - 600 DUCTIL.

hc (ALTURA DA CHAMINÉ)
MÍNIMO = 30 / MÁXIMO = 100

15

20

PROFUNDIDADE DO PV $H \leq 350$

PÉ DIREITO DO BALÃO — VÁRIÁVEL
MÍNIMO = 100 / MÁXIMO = 250

hc (ALTURA DA CHAMINÉ)
MÍNIMO = 30 / MÁXIMO = 100

hB (ALTURA DO BALÃO)

LAJE DA TAMPA

REVESTIMENTO COM ARGAMASSA TRAÇO 1:3 (ESPESURA 2cm)

ENGOMENTO COM CONCRETO $f_{ck} \geq 15\text{MPa}$

COTA DO FUNDO

ALVENARIA DE BLOCO DE CONCRETO

ALVENARIA DE BLOCO DE CONCRETO FURADO COMUM

CONCRETO $f_{ck} \geq 15\text{MPa}$

TD = 600 DUCTIL.


LAJE DE FUNDO

LASTRO DE CIMENTO MARGO

LASTRO DE BRITA

0,10.D

NOTAS	
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 CONESTOGA-ROVERS E ASSOCIADOS				
Referência: SÃO JOÃO DA BARRA - RJ				
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Escala:	Projeto N.º:	Disciplina:	Desenho N.º:	Rev. N.º:
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