

Technical drawing of a rectangular plate with a cross-shaped hole. The plate has dimensions 50x50. The hole has a central square of 10x10 and four rectangular extensions. Dimensions for the hole are: 120 (total width), 10 (central square width), 120 (total height), 7 (central square height), 34 (total width of extensions), and 48 (total height of extensions). The hole is labeled N2. The plate is labeled 3x7 N2 ø6.3 c/17.5 - 60. A scale bar at the bottom shows 20, 60, and 120 units.

Technical drawing of a rectangular plate with a cross-section. The top view shows a rectangle with dimensions 50 (width) and 50 (height). The cross-section shows a plate with a total thickness of 65, divided into three layers: 20 (bottom), 120 (middle), and 65 (top). The middle layer has a central hole with a diameter of 10 N44 Ø 6.0 ± 0.1. The top layer has a central hole with a diameter of 7 N1 Ø 7.5. The bottom layer has a central hole with a diameter of 3x7 N2 Ø 17.5. The bottom layer is also labeled with a cross-section of a cross-section.

Figure 1 consists of two schematic diagrams. Diagram (a) shows a square representing a 7 N1 block. The top-left corner has a small square containing the letter 'f'. The right vertical side is labeled '44' and the bottom horizontal side is also labeled '44'. Below the square, the text '7 N1 ø6.3 c/17.5 - 188' is written. Diagram (b) shows a hexagon representing a 5 N23 block. The top horizontal side is labeled '31' and the bottom horizontal side is labeled '151'. A small 'f' in a square is also present at the top-left corner of the hexagon. Below the hexagon, the text '5 N23 ø10.0 c/15 - 561 (horizontal)' is written.

VAR

2x9 N42 ø12.5 c/20 - VAR
(malha perpendicular superior)

65

65

N42

N42

N47

N47

65

65

VAR

2x9 N42 ø12.5 c/20 - VAR
(malha perpendicular inferior)

Technical drawing of a reinforced concrete slab (Laje) showing dimensions and reinforcement details.

Top View Dimensions:

- Overall width: 125
- Overall height: 80
- Internal height: 75
- Reinforcement spacing: 5 N23 c/15
- Top of block elevation: - 4.05 (tp) topo do bloco
- Bottom of slab elevation: - 4.80
- Bottom of slab elevation (ca) cota de arrasamento

Reinforcement Details:

- Top reinforcement: N42
- Bottom reinforcement: N42
- Bottom reinforcement: 5 N23 c/15

Side View Dimensions:

- Width: 156
- Height: 70

Reinforcement Details (Side View):

- Reinforcement: 3x5 N47 ø16.0 c/7.5 - 289
- Location: (inferior - sobre as estacas - mediana do bloco)

Resumo dos materiais

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	772.8	189.1
	10.0	885.9	546.2
	12.5	2790.8	2688.4
	16.0	1640.4	2589.1
	20.0	139.2	343.3
PESO TOTAL (kg)		Vol. concreto = 57.60 m³ Área formas = 167.02 m²	
CA50	6356.1		

Technical drawing of a reinforced concrete slab (Laje) showing dimensions and reinforcement details.

Dimensions:

- Overall thickness: 125
- Effective depth (tp): 80
- Effective depth (ca): 75
- Slab width: 156
- Column width: 65
- Reinforcement spacing: 5 N23 c/15

Reinforcement:

- Top reinforcement: 3x5 N45 ϕ 16.0 c/7.5 - 279
- Bottom reinforcement: 7/5

Levels:

- Ground level: -3.60
- Top of slab (tp): -4.05
- Bottom of slab (ca): -4.80

Notes:

- (tp) topo do bloco
- (ca) cota de arrasamento

Technical drawing of a cross-section of a reinforced concrete slab. The drawing shows a square cross-section with dimensions 50 cm by 50 cm. The reinforcement consists of 3x7 N2 bars with a diameter of 17.5 mm, spaced at 120 mm. The bars are bent at 45 degrees. The drawing also shows the top and bottom views of the slab, with dimensions 120 mm and 65 mm. The top view shows a 3x7 N2 bar with a diameter of 17.5 mm, spaced at 120 mm. The bottom view shows a 3x7 N2 bar with a diameter of 17.5 mm, spaced at 120 mm. The drawing is labeled with '3x7 N2 ø17.5 - 60' and '3x7 N2 ø17.5 - 60'.

Figure 1 consists of two schematic diagrams of experimental setups. The left diagram shows a subject (N1) positioned at a distance of 66.3 cm from a screen. The screen displays a target at a vertical distance of 44 cm and a horizontal distance of 44 cm. The right diagram shows a subject (N22) positioned at a distance of 100 cm from a screen. The screen displays a target at a horizontal distance of 174 cm and a vertical distance of 170 cm. Both setups include a subject, a screen, and a target.

Technical drawing of a square mesh (malha) with dimensions and labels:

- Top dimension: 172
- Right dimension: 172
- Bottom dimension: 172
- Left dimension: 174
- Top-left corner dimension: 65
- Bottom-left corner dimension: 65
- Top-right corner dimension: 65
- Bottom-right corner dimension: 65
- Label: 2x9 N41 ø12.5 c/20 - 296 (malha perpendicular superior)
- Label: N41
- Label: N55

95

125

80

75

65

65

N41

N41

N41

N55

VAR

2x4 N55 ø20 0 c/10 - VAR
(inferior - sobre estacas)

- 3.60

- 4.05
(tp) topo do bloco

5 N22 ø15

- 4.80
(ca) cota de arrasamento

BLOCOS

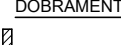
B138=B186=B214=B266=B328A=B328B=B351=
B362=B404 (9x)

B160=B161=B385=B386=B387=B388=B389=B406=
B407=B410=B411=B412=B413 (13x)

B333=B370 (2x)

Diagrama de um sistema de reforço de concreto armado, mostrando barras longitudinais, grampos e estribos.

DIÂMETRO (D) DOS PINOS DE DOBRAMENTO PARA GANCHOS
SEM ESCALA

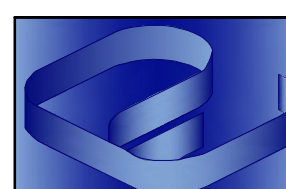


BITOLA (Ø)	CA50	CA60
<20mm	5xØ	6xØ
≥20mm	8xØ	—
estribo ≤10mm	3xØ	3xØ

NBR-6118:2003 (itens 9.4.2.3 e 9.4.6.1)

01 NBR6118:2007 - Classe de Agressividade Ambiental = II.
02 NBR6118:2007 - Concreto com $f_{ck}=25\text{MPa}$ - Aço CA-50.
03 NBR6118:2007 - Cobrimento para arrancos e blocos: 3,0cm.
04 Unidades: diâmetro do aço em milímetro; espargamento e comprimento em centímetro;
05 Para definição de formas e níveis consultar planta geral das fundações (FOR 01).
06 Os desenhos de armações dos arrancos de pilares e blocos, acompanham o posicionamento definido na planta de formas FOR 01.

O0	05/05/12	Emissão inicial.	Dionísio
REVISÃO	DATA	MODIFICAÇÕES	RESP.



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CLIENTE:	PATIOMIX LINHARES SHOPPING CENTER SPE S.A.	DESENHO:	407_arm01_10_r.dwg
OBRA:	SHOPPING PATIOMIX LINHARES Linhares - ES	ESCALA:	1:25
PROJETO ESTRUTURAL	ARRANQUES/BLOCOS - PILARES MOLDADOS "IN LOCO" - 04/10 (ARRANQUES E BLOCOS DOS PILARES DOS MUROS)	DATA - REVISÃO:	05/05/12 - RO
	ARMAÇÕES	PROJETO:	E407
			ARMOI-10