

Technical drawing of a mechanical part showing three views: front, top, and side.

Front View: A square with a side length of 50. It features a central circular hole with a diameter of 18.3 (5 N3 ±0.0 C=183) and a square hole with a side length of 43.

Top View: A square with a side length of 59. It features a central circular hole with a diameter of 19.5 (2 N2 ±0.5 C=195).

Side View: A rectangular profile with a total height of 90. The base width is 50, and the top width is 40. It shows a vertical slot with a width of 5 and a depth of 0.15. The part is labeled with dimensions and tolerances: 5 N3 ±0.0 C=183, 2 N2 ±0.5 C=195, and CA: -0.65.

Technical drawing of a mechanical part showing three views: front, top, and side.

Front View:

- Overall width: 50
- Overall height: 90
- Central circular hole: $\varnothing 50$
- Smaller circular hole: $\varnothing 43$
- Rectangular slot: width 40, height 50
- Dimension lines: 50, 90, 40, 50

Top View:

- Overall width: 50
- Overall height: 50
- Central circular hole: $\varnothing 43$
- Dimension lines: 50, 50

Side View:

- Overall width: 59
- Overall height: 33
- Central circular hole: $\varnothing 43$
- Dimension lines: 59, 33

Annotations:

- N2: Dimension line pointing to the top edge of the front view.
- N3: Dimension line pointing to the right edge of the front view.
- CA: Dimension line pointing to the bottom edge of the front view.

Technical drawing of a rectangular plate with two circular holes. The drawing includes the following dimensions and specifications:

- Top view:
 - Total width: 125
 - Hole diameter: 37.5
 - Distance between hole centers: 37.5
 - Hole spacing from left edge: 37.5
 - Hole depth: 19
 - Plate thickness: 5
 - Distance from hole center to bottom edge: 117
- Side view:
 - Total height: 33
 - Distance from hole center to bottom edge: 118
- Material specification: 2 N5 ø5.0 c/9 C=180

Technical drawing of a reinforced concrete slab (SEÇÃO ESC 1:20) showing dimensions and reinforcement details. The slab is 12 units wide and 30 units high. It has a top reinforcement of 4 N17 ø10.0 C=75 and a bottom reinforcement of 7 N4 ø5.0 C=79. The drawing also shows a cross-section of a column (26 units wide) and a wall (80 units high) with reinforcement details.

Technical drawing of a rectangular plate with two circular holes. The drawing shows the front and side views.

Front View (Top):

- Total width: 125
- Distance between hole centers: 117
- Hole diameter: 37.5
- Plate thickness: 5
- Part number: N5
- Feature label: N19
- Feature label: A
- Feature label: N8

Side View (Bottom):

- Height: 33
- Part number: N7
- Feature label: C=180

Technical drawing of a reinforced concrete slab (Table 10.1). The drawing shows a plan view of a rectangular slab with dimensions 117m by 33m. The slab is supported by four columns. The reinforcement is shown as a grid of lines. The drawing includes dimensions for the slab thickness (0.15m), the distance from the center of the slab to the center of the columns (0.25m), and the distance from the center of the slab to the center of the columns (0.65m). The reinforcement is specified as 4 N6 ø5.0 c/10 C=126, 5 N7 c/8, 4 N19 ø10.0 c/8 C=178, and 6 N8 ø5.0 c/25 C=16. The drawing also shows a detail of the column and slab connection, indicating a 42mm gap between the column and the slab.

TERREO - L1

SEÇÃO
ESC 1:20

12

30

7 N4 ϕ 5.0 C=79

15

65

80

7 N4 ϕ 12

74

4 N16 ϕ 10.0 C=92

20

FSC 1/25

Technical drawing of a rectangular plate with two circular holes. The plate has a total width of 125 and a total height of 33. The distance between the centers of the two holes is 117. The holes have a diameter of 50. The plate is labeled with 'N5' and 'N7' indicating different material or finish specifications. The drawing includes dimensions for the holes (50), the distance between them (117), and the overall dimensions (125 x 33). The text '2 N5 ø50 c/9 C=180' is present, likely indicating a quantity and a specific code.

P96=P173=P177

Technical drawing of a rectangular plate with dimensions and labels:

- Top horizontal dimension: 75
- Top horizontal dimension: r_B
- Left vertical dimension: N11
- Left vertical dimension: N21
- Left vertical dimension: A
- Left vertical dimension: N11
- Bottom horizontal dimension: 36
- Bottom horizontal dimension: 192
- Bottom horizontal dimension: 2 N11 ± 5.0 C=4
- Bottom horizontal dimension: 193
- Bottom horizontal dimension: 5 N13 ± 5.0 C=4
- Internal horizontal dimension: l_B
- Internal horizontal dimension: 200
- Internal horizontal dimension: N14

16

P100

TÉRREO - L1

SEÇÃO
ESC 1:20

19

30

26

15

9 N10 ø5.0 C=93

CA : -0.85

53

42

53

9 N14 ø5.0 c/25 C=201

P100

TÉRREO - L1

SEÇÃO
ESC 1:20

19
30
26
15
15
93
20
100
97
4 N20 ø10.0 C=133
9 N10 c/12
FSC 1/25
9 N10 ø5.0 C=93

Relação do aço					
B83		B84		B85	
B92		B93		B100	
3x8177					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	14	71	994
	2	5.0	6	195	1170
	3	5.0	15	183	2745
	4	5.0	21	79	1659
	5	5.0	180	180	1800
	6	5.0	20	126	2520
	7	5.0	25	333	8325
	8	5.0	30	161	4830
	9	5.0	21	113	2373
	10	5.0	9	93	837
	11	5.0	2	261	522
	12	5.0	4	201	804
	13	5.0	5	483	2415
	14	5.0	9	201	1809
	CA50	15	8.0	12	179
16		10.0	16	92	1472
17		10.0	4	75	300
18		10.0	16	133	2128
19		10.0	8	178	1424
20		10.0	4	153	612
21		10.0	4	293	1172
	22	12.5	6	94	564

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	21.5	8.5
	10.0	71.1	43.8
	12.5	5.7	5.4
CA60	5.0	328.1	50.6

PESO TOTAL (kg)	
CA50	57.7
CA60	50.6

Volume de concreto (C-25) = 2.75 m³
Área de forma = 18.67 m²

APROVAÇÃO



PREFEITURA MUNICIPAL DE RIBAS DO RIO PARDO

OBRA

CONSTRUÇÃO DO EMEI DE RIBAS DO RIO PARDO

LOCAL
AV. LISBOA ESQUINA COM AV. DIRIO RICARTES, SN, JARDIM DOS ESTADOS, RIBAS DO RIO PARDO - MS

RESPONSÁVEL TÉCNICO P/ PROJETO
JACQUICELLE GOMES FEITOSA
CREA nº 63.733/MS

PREFEITO
JOÃO ALFREDO DANIEZE
CNPJ 03.501.541/0001-91

DISCIPLINA PROJETO DE ESTRUTURA DE CONCRETO ARMADO

CONTEÚDO

ARMAÇÃO BLOCOS DE FUNDAÇÃO PARTE 03

12/40

ESCALA

Como indicado

DATA	JUNHO/2023
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CONVÊNIO	
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COORDENADAS 20°28'3.66"S
53°46'4.43"S