

Technical drawing of a steel beam-to-column connection. The main drawing shows a side elevation of a beam with three 14x50 mm gusset plates (a, b, c) and a column with three 21x130x5d23 mm stiffeners. Dimensions include 521 mm between column faces, 180 mm between stiffeners, and 367 mm from the last stiffener to the beam end. Section lines A-A are indicated. A detail 'Corte A' shows the connection at a 1:20 scale, with dimensions 50 mm, 14 mm, 40 mm, and 9 mm. Material specifications 3N1208 C=1063 and 45N305 C=118 are noted.

Technical drawing of a staircase showing a plan view and a section view (Corte A).

Plan View:

- Overall width: 254
- Overall depth: 269
- Central landing area labeled 'a' with dimensions 14x40.
- Dimensions 2N900 and 13x1N905/1A are indicated at the bottom.

Section View (Corte A):

- Height: 40
- Width: 14
- Label: Corte A
- Scale: Escala 1:20

Technical drawing showing a plan view and a cross-section (Corte A) of a rectangular structure.

Plan View (Left):

- Overall width: 180
- Overall height: 152
- Top and bottom horizontal dimensions: $2N1 \mid \varnothing 8 \ C=194$
- Bottom horizontal dimensions: $9 \times N1 \mid 225 \times 1/8$
- Central circular feature: $\varnothing 14 \times 40$
- Section line A-A is indicated.

Corte A (Right):

- Scale: Escala 1:20
- Vertical dimension: 40
- Horizontal dimension: 14
- Bottom horizontal dimension: 9
- Bottom horizontal dimension: $9N1 \mid \varnothing 5 \ C=98$

Technical drawing of a staircase showing a plan view and a section view (Corte A).

Plan View:

- Overall width: 157
- Overall depth: 201
- Central landing area: 14x40
- Dimensions: 2N1408 C=201

Section View (Corte A):

- Overall height: 40
- Overall width: 14
- Dimensions: 9N1505 C=96

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

Dimensions and Spacing:

- Overall width: 14.00m
- Overall length: 50.40m
- Reinforcement spacing: 200mm

Reinforcement Details:

- Top reinforcement: 2N19Ø10 C=675 (a), 2N19Ø10 C=750 (c), 2N19Ø10 C=1200 (d)
- Bottom reinforcement: 13x1N20Ø5cl1Ø (a), 18x1N20Ø5cl1Ø (b), 21x1N20Ø5cl1Ø (c), 6x1N20Ø5cl1Ø (d)
- Section A-A: 40x14 (top), 35x9 (bottom)

Section A-A:

Section A-A shows the cross-section of the slab, indicating the top reinforcement (40x14) and bottom reinforcement (35x9).

V.10

247 347 297 237

P123 **P99** **P89** **V.3**

2N2300 C=945

1N2500 C=135 2ªcamada
70 60
1N2500 C=135
70 60

2N2400 C=290

a 14x40 **b** 14x40 **c** 14x40 **d** 14x40

14 226 320 2020 267 1010 213 14

13x1N2605c/10 2N2100 C=915 10x1N2605c/10 15x1N2605c/10 12x1N2605c/10

Corte A
Escala 1:20

40
14
32
9
50N2605 C=98

Technical drawing of a staircase showing a plan view and a section view.

Plan View (Top):

- Overall width: 3.20m (3N2Ø10 C=547)
- Overall depth: 0.80m (2N2Ø10 C=561)
- Staircase width: 1.4x5.0
- Staircase depth: 0.4
- Staircase width: 1.4
- Staircase depth: 0.4
- Staircase width: 1.4
- Staircase depth: 0.4
- Staircase width: 1.4
- Staircase depth: 0.4

Section View (Right):

- Section A-A
- Staircase width: 1.4
- Staircase depth: 0.4
- Staircase width: 1.4
- Staircase depth: 0.4
- Staircase width: 1.4
- Staircase depth: 0.4
- Staircase width: 1.4
- Staircase depth: 0.4

Technical drawing of a staircase section (Corte A) showing dimensions and components.

Dimensions:

- Overall width: 374
- Overall height: 35
- Stair width: 14
- Stair height: 40
- Stair depth: 9

Components:

- Top plate: P124
- Bottom plate: P100
- Stair stringer: 2N3200 C=369
- Stair tread: 14x40
- Stair nosing: 18x113305 C=116
- Stair nosing: 18N3305 C=98

Section Line: A-A

Technical drawing of a staircase (Escalera) showing a plan view and a section view (Corte A-A).

Plan View:

- Overall width: 528
- Overall length: 468
- Dimensions and labels:
 - 1N4008 C=135 2ª camada
 - 1N4008 C=135
 - 2N3908 C=543
 - 1N4008 C=135
 - 14x50 (tread and riser dimensions)
 - 1N3808 C=330
 - 2N3708 C=543
 - 2 x 1N4105 d23

Section View (Corte A-A):

- Overall height: 100
- Overall width: 14
- Dimensions and labels:
 - 14x50 (tread and riser dimensions)
 - 2 x 1N4105 C=118

DETALHAMENTO VIGAS BALDRAME

MAIO/2013	15 / 15
ESCALA: INDICADA	