

Structural drawing of a roof truss system. The drawing shows various steel members, their sizes, and their connections. The drawing includes dimensions, material specifications, and connection details for a roof structure.

Members and Connections:

- 2 N51 ø10.0 C=550
- 2 N20 ø8.0 C=320
- 2 N91 ø12.5 C=500
- 2 N21 ø8.0 C=300
- 2 N41 ø10.0 C=540
- 2 N16 ø8.0 C=405
- 2 N37 ø10.0 C=609
- 2 N50 ø10.0 C=330 ø=20
- 2 N52 ø10.0 C=300 ø=80
- 2x2 N44 ø10.0 C=822 (PELE)
- 1ø2*camada
- 2x4 N6 ø6.3 C=1200 (PELE)
- 2x4 N6 ø6.3 C=1200
- 2x4 N8 ø6.3 C=468
- 807
- P39
- V362
- P40
- V366
- P41
- V370
- P42
- V374
- P43
- P44
- 814
- 15 x 70
- 773
- 30 N1 ø26
- 1ø2*camada
- 169
- 2 N45 ø10.0 C=365 ø=60
- 808
- 2 N46 ø10.0 C=811
- 275
- 1 N47 ø10.0 C=260
- 265
- 1 N48 ø10.0 C=265
- 265
- 1 N32 ø10.0 C=305
- 1158
- 2 N35 ø10.0 C=793
- 2 N33 ø10.0 C=1194

The drawing illustrates a complex roof structure with multiple levels and supports. Key elements include:

- Beams and Supports:** Labeled with beam numbers and dimensions (e.g., 2 N37 ø10.0 C=809, 2 N16 ø8.0 C=405, 2 N41 ø10.0 C=540, 2 N59 ø10.0 C=495, 2 N23 ø8.0 C=360, 2 N60 ø10.0 C=455, 2 N17 ø8.0 C=290, 2 N93 ø12.5 C=505, 2 N24 ø8.0 C=379, 2 N58 ø10.0 C=320 e=20, 2 N38 ø10.0 C=275 e=20, 2 N38 ø10.0 C=275 e=40, 1 N92 ø12.5 C=335, 2 N61 ø10.0 C=114, 2x4 N6 ø6.3 C=1200, 1ø2"camada, 2x4 N6 ø6.3 C=1200, 1ø2"camada, 2x4 N6 ø6.3 C=1200, 2x4 N9 ø6.3 C=737).
- Dimensions and Spacing:** Various dimensions are provided for beam lengths and spacings (e.g., 364, 15 x 70, 350, 14 N1 c/26, 235, 1 N52 ø10.0 C=300, 1158, 2 N33 ø10.0 C=1194, 270, 1 N47 ø10.0 C=260, 2 N35 ø10.0 C=793, 260, 1 N53 ø10.0 C=280, 2 N35 ø10.0 C=793, 2 N54 ø10.0 C=709, 200, 1 N55 ø10.0 C=419, 695, 2 N56 ø10.0 C=698, 725, 15 x 70, 689, 27 N1 c/26, 710, 15 x 70, 665, 26 N1 c/26).
- Section Lines and Cross-Sections:** Section lines 1-1 and A-A are indicated, showing the internal structure and materials (e.g., 1ø2"camada, 2x4 N6 ø6.3 C=1200).
- Labels and Notes:** Labels like (PELE), P45, P46, V339, P47, V343, P48, A, V347, P49, and P50 are used to identify specific components and supports.

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2 N63 ± 10.0 C=199
 309 109 65
 2x3 N10 ± 6.3 C=109
 (PE)E
 A
 807
 V336 A P74
 114
 12 x 70
 99
 4N2c30
 109 J30
 2 N62 ± 10.0 C=139
 ESC 1:25
 70
 12
 65
 7
 4 N2 ± 5.0 C=155

30 115 65

2x3 N11 ø3,3 C=115

(PE)E

807

P75 V351

120

12 x 70

103

4N2c/30

115 10

2 N84 ø10,0 145

7

4 N2 ø5,0 C=155

SECAL A-A

ESC 125

70

12

65

2 N65 ± 10.0 C=205
30 115 65
2x3 N11 ± 6.3 C=115
(PELE)
A
807
V359¹ A₁ P76
120
12 x 70
105
4N2² C
115
2 N64 ± 10.0 C=45
30 115 65
4N2 ± 6.3 C=155

Technical drawing of a mechanical part with dimensions and labels:

- Top dimensions: 2 N26 $\phi 8.0$ C=111, 2x3 N12 $\phi 6.3$ C=111
- Internal features: (PELE), 1 A, 907, P77, 116, 1 A
- Bottom dimensions: 12 x 70, 96, 4N2C/30, 30 L, 111, 12, 2 N66 $\phi 10.0$ C=148
- Right side dimensions: ESC 1.25, 70, 12, 65, 7, 4 N2 $\phi 5.0$ C=155
- Other labels: V377

2 N68 ø10,0 C=204
30 149 30
2x3 N13 ø6,3 C=149

(PELE)
A
807

P73 L A V320

154
12 x 70
123
5N2ø/30

149
2 N68 ø10,0 C=204

SEÇÃO A-A
ESC 1:25

70
12
65
7

Technical drawing of a rectangular plate with the following specifications:

- Material and Heat Treatment:** 3 N71 $\sigma_{10.0}$ C=203, 2 N28 $\sigma_{8.0}$ C=420, 3 N71 $\sigma_{10.0}$ C=203
- Dimensions:**
 - Overall width: 34
 - Overall height: 70
 - Inner width: 171
 - Inner height: 65
 - Top flange width: 171
 - Top flange height: 7
 - Bottom flange width: 171
 - Bottom flange height: 7
 - Central hole diameter: $\varnothing 72$
 - Central hole offset from center: 807
 - Central hole offset from edge: 149
 - Central hole offset from center (alternative): 20 x 70
 - Central hole offset from center (alternative): 34 N3 $\varnothing 20$
 - Central hole offset from center (alternative): 1 N69 $\sigma_{10.0}$ C=425
 - Central hole offset from center (alternative): 2 N70 $\sigma_{10.0}$ C=727
- Section A-A:**
 - Scale: ESC 1:25
 - Section width: 20
 - Section height: 65
 - Section offset from center: 34 N3 $\sigma_{8.0}$ C=171

[illegible][illegible]

2 N29 ø8.0 C=149

2x3 N13 ø6.3 C=149

(PELE)
A
807

V324 A V320

154

12 x 70

128

5N2c30

ø6.3 C=72

1 N14 6

35

12 149 12

2 N74 ø10.0 C=168

SEÇÃO A-A

ESC 1:25

70

12

65

7

5 N2 ø5.0 C=155

2 N29 ø8.0 C=149
2x3 N13 ø6.3 C=149
ESC 1:25
70
12
65
5 N2 ø7.0 C=155

SEÇÃO A-A
ESC 1:25

The drawing shows a cross-section of a rectangular concrete slab. The overall width is 20 units and the height is 50 units. The top reinforcement consists of two layers: the upper layer has bars at 807 mm from the top edge, and the lower layer has bars at 263 mm from the bottom edge. The bottom reinforcement consists of two layers: the upper layer has bars at 20 x 50 mm from the bottom edge, and the lower layer has bars at 12N5c/20 mm from the bottom edge. The total thickness of the slab is 258 mm. The top reinforcement is labeled as 2 N89 ø10.0 C=325, and the bottom reinforcement is labeled as 2 N88 ø10.0 C=270. The section is identified as SEÇÃO A-A at a scale of 1:25.

Technical drawing of a roof structure showing a plan view and a section view.

Plan View Dimensions and Details:

- Top edge dimensions: 2 N81 ø10.0 C=359, 2 N30 ø8.0 C=365, 2 N83 ø10.0 C=715, 2 N31 ø8.0 C=355, 2 N84 ø10.0 C=364.
- Left edge dimensions: 1 N80 ø10.0 C=185, 120, 807.
- Right edge dimensions: 321, 1 N42 ø10.0 C=190, 65.
- Internal dimensions: 102'camada, 102'camada, 150, 139, 715, 290, 715, 139.
- Structural details: 15 x 50, 688, 263, 688, 125, 5N4c/26, 27 N4 c/26, 11 N4 c/26, 27 N4 c/26, 5N4c/26.
- Bottom edge dimensions: 145, 1 N76 ø10.0 C=395, 1138, 2 N77 ø10.0 C=1163, 170, 1 N78 ø10.0 C=400, 848, 2 N79 ø10.0 C=873.

Section View Dimensions and Details:

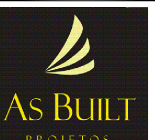
- Vertical dimensions: 45, 27.
- Horizontal dimensions: 139, 715, 290, 715, 139.
- Structural details: V325, P61, P46, P32, A, P10.

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Technical drawing of a rectangular plate. The main dimensions are 149 (width) and 70 (height). The plate has a central rectangular cutout with a width of 30 and a height of 12. The cutout is positioned 149/2 = 74.5 from the left and right edges. The plate is made of material 2 N68 $\sigma_{10.0}$ C=204. The drawing includes a detail view of the cutout edge, showing a 70x12 rectangle with a 65x7 detail. The detail view is labeled 'SECAU A-A' and 'ESC 1:25'. The main drawing is labeled '2 N68 $\sigma_{10.0}$ C=204' and '2 N67 $\sigma_{10.0}$ C=154'. The cutout is labeled '2x3 N13 $\sigma_{6.3}$ C=149'. The plate is labeled 'V310 L-A P3'. The cutout is labeled '154' and '123'. The cutout is labeled '5N2c/30' and '149'. The cutout is labeled '5 N2 $\sigma_{5.0}$ C=150'.

RESUMO DO AÇO			
AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	6.3	1155.7	283.3
	8.0	238.9	94.4
	10.0	848.4	523.2
	12.5	63.3	61.0
CA60	5.0	1195.6	184.1
PESO TOTAL			
CA50	961.9		
CA60	184.1		

Vol. de concreto total (C-25) = 20.58 m³
Área de forma total = 300.67 m²

DI	22/07/2013	PROJETO ESTRUTURAL	
NR	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO
 AS BUILT ENGENHARIA DE PROJETOS LTDA Rua Jovino do Rosário, 1564 - Boa Vista CEP 82568-435 - Curitiba - Paraná ebs@projetos@gmail.com - (41) 3088-4849			
FOLHA:			
PROJETO ESTRUTURAL CONFERIR MEDIDAS NA OBRA ADMINISTRAÇÃO CAMPUS UNAI 			
PROPRIETÁRIO:	UNIVERSIDADE FEDERAL DO VALE DO JEQUITINHONHA E MUCURI		CNPJ 16.686.315/0001-57
FRANCA:	FERRAGENS DAS VIGAS; PAVIMENTO COBERTURA(2)		
AUTOR PROJETO:	CARLOS HENRIQUE DE SOUZA GONÇALVES		
CREA 79820 - Pr.			
ESCALA: INDICADA VERSÃO: VERSÃO 1 DATA: 22/07/2013			DESENHO: EQUIPE FOLHA:
ÁREA CONSTRUIDA: 3056,63m²			EST 19/22
ARQUIVO:			