

[illegible]

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	8,3	2359,6	578,4
	9,0	2003,9	791,9
	10,0	688,3	412,2
	12,5	497,2	479,3
	16,0	602,3	951,6
	20,0	417,5	1030,5
PESO TOTAL			
CA50	4243,7		

Vol. de concreto total (C-25)=53,09 m³
 Área de forma total = 542,14 m²

Figure 1 shows two schematic diagrams of components. The top diagram is labeled 'ESC 1100' and the bottom diagram is labeled 'ESC 126'. Both diagrams show a central section labeled 'PELE' (PELE) with various electrical connections (PB1, LA, P72). The ESC 1100 diagram includes labels for '3 N110 a16.0 C=977', '1 N112 a16.0 C=464', '1 N111 a16.0 C=270', '2x4 N116 a8.0 C=977', '456', '962', '20 x 49', '918', '28 N2 c30', and '3 N110 a16.0 C=977'. The ESC 126 diagram includes labels for 'SECCO A-A', 'ESC 126', '16', '20', '64', and '28 N2 a6.3 C=210'.

SEC 1/100

SEC ES

1174

2 N138 ø20,0 C=1194

128

799

2 N138 ø20,0 C=819

240

3 N138 ø20,0 C=505

102cmलाई

1 N137 ø20,0 C=318

298

2x5 N113 ø8,0 C=1200

(PELE)

2x5 N119 ø8,0 C=708

61

456

P53

925

25 x 95

725

30 N1 ø25

115

5N10x23

120

6N10x15

25 x 95

628

26 N1 ø25

102

6N10x17

P41

L A

925

914

5 N113 ø16,0 C=929

914

3 N113 ø16,0 C=929

P23

19

10

ESC: 1/100

3 N16 #16.0 C=98

944

3 N15 #16.0 C=92

206

Laje 107mm/94mm

2x4 N35 #3.0 C=94

(PELE)

406

Γ A

P24

Γ A

P5

949

20 x 160

899

30 N1 #30

3 N14 #16.0 C=94

SEÇÃO A-A

ESC: 1/25

80

20

30 N2

[illegible]

SEÇÃO A-A
ESC 1:25

40
12
35
7
6 N4 ø10.0 C=96

176
144
129
12 x 40
120
134
21
17
N38 ø10.0 C=176
N37 ø10.0 C=144
V215
F A
A

Technical drawing of a 25x100mm PELE window blind. The drawing includes a top view and a side view.

Top View Dimensions:

- Overall width: 792
- Material specification: 3 N83 e12,5 C#E23
- Internal width: 792
- Material specification: 2x4 N21 e10,0 C#792 (PELE)
- End cap width: 456
- End cap material: P3
- Internal width: 797
- Material specification: 25 N20 e19
- Internal width: 727
- Material specification: 25 N20 e190
- Internal width: 792
- Material specification: 4 N82 e12,5 C#B04
- End cap material: P1

Side View Dimensions:

- Overall height: 89
- Material specification: 25 N2 e5,3 C#210
- Internal height: 84
- End cap height: 15

Technical drawing of a mechanical part, showing front and side views with dimensions.

Front View (Top):

- Overall width: 3 N40 ±0.03 C=447
- Top width: 413
- Top hole diameter: 406
- Top hole position: 52
- Top hole radius: r A
- Top hole depth: 38
- Bottom hole diameter: 418
- Bottom hole position: 15 ± 50
- Bottom hole position: 348
- Bottom hole position: 13 NS ±0.27
- Bottom hole depth: P3
- Bottom hole diameter: 2 N39 ±0.03 C=413

Side View (Right):

- Overall height: 90
- Overall width: 15
- Overall depth: 45
- Bottom hole diameter: 10
- Bottom hole position: 13 NS ±0.3 C=122

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ESC 1:100

N42 ø10.0 C=158

125 35

A

406

A

V215

130

12 x 40

80

4N4c/21

125 17

N41 ø10.0 C=140

ESC 1:100

2 N44 $\phi 10.0$ C=243

35 196 17

406 T A

V214 P85 V211

93 108

12 x 40 12 x 40

173

9N44 c21

2 N43 $\phi 10.0$ C=196

SEÇÃO A-A

ESC 1:25

40

12

35

7

9 N44 $\phi 6.3$ C=96

Technical drawing of a steel beam (Fig. 10.10) showing front and side views with dimensions and material specifications.

Front View (Left):

- Scale: ESC 1:100
- Top flange: 3 N84 $\phi 12,5$ C=499
- Top flange width: 444
- Top flange thickness: 27
- Web height: 34
- Web thickness: 406
- Bottom flange: V203
- Bottom flange width: 444
- Bottom flange thickness: 12
- Section line: L A
- Material: 449
- Dimensions: 15 x 50, 404, 15 N5 c/27
- Bottom flange material: 2 N45 $\phi 10,0$ C=454

Side View (Right):

- Section: SEÇÃO A-A
- Scale: ESC 1:25
- Section height: 50
- Section width: 15
- Section material: 45
- Section material: 15 N5 $\phi 6,3$ C=122

Technical drawing of a 25 N2 C210 cable. The drawing shows a cross-section of the cable with the following dimensions and labels:

- Overall diameter: $\varnothing 12.5$ C#25
- Length: 792
- Core diameter: $\varnothing 0.8$ C#792 (PELE)
- Core length: 408
- Core diameter: $\varnothing 0.8$ C#792
- Core length: 797
- Core diameter: $\varnothing 20 \times 69$
- Core length: 727
- Core diameter: $\varnothing 25$ N2 C#210
- Core length: 792
- Core diameter: $\varnothing 12.5$ C#210
- Core length: 84
- Core diameter: $\varnothing 15$
- Core length: 25 N2 $\varnothing 0.5$ C#210

Fig. 1.100

Technical drawing of a roof structure (Fig. 1.100) showing a cross-section with various layers and dimensions. The drawing includes labels for structural elements like "3 N19 ø16.0 C=1050", "1 N18 ø16.0 C=317", "2x4 N25 ø8.0 C=941", "946", "seccal 1.20x9x82x15", "30 N2 ø30", "30 N1 ø30", "4 N87 ø12.5 C=959", and "162°canada". Dimensions are given in millimeters (mm) and meters (m). The drawing also shows a "PELE" layer and a "P28" layer.

[illegible]

ESC 1:100

447 ± 10,0 C=213

137 45

F A

406

L A V229

142

20 x 50

92

4N80/27

137 3/4

SEÇÃO A-A

ESC 1:25

50

20

45

ESC 1:100

SECCO A-A
ESC 1:25

2 N50 ± 0.10 C=550

45

10

465

N49 ± 0.10 C=220

177

406

r A

259 L P28 L A N P27 V206

35 325 110

20 x 50 20 x 50

20 x 50

305 305 100

N60 ± 0.11 12 NB ± 0.27 4 NB ± 0.27

69 ± 0.3 C=128

14 99

465

35

2 N48 ± 0.10 C=532

50

20

45

15

19 NB ± 0.3 C=132

ESC 1:100

2.297 m ± 2.5 C=667

606
1 N06 a 12,5 C=395

178
1 N05 a 12,5 C=245

125

2x20cm² armada

406

P.29

1 A

P.32

V258

411
15 x 50

201
15 x 50

120
126
112

5N50/24 5N50/27 5N50/14

16C²cm² armada

406

4 N04 a 12,5 C=420

196
1 N01 a 10,0 C=221

SEÇÃO A-A

ESC 1:25

20

50

15

45

10

30 N05 e0,3 C=122

ESC 1:100

2 N86 e12,5 C=545

45 461 45

F A

406

P30

P3M250

V233 106 325 95

20 x 50 106 20 x 50 20 x 50

96 305 25

48x8x27 12 N8 027 465 77

4 N9 e6,3 N=C128

54

36

461

2 N52 e10,0 C=528

SEÇÃO A-A

ESC 1:25

S

20

45

SUSPENSÃO V2

ESC 1:25

64

23

1 N28 e8,0 C=228

15

20 N8 e6,3 C=132

Technical drawing of a rectangular plate. The main drawing shows a plate with overall dimensions 17 (width) x 35 (height). It features a central rectangular cutout with a width of 406 and a height of 12. The cutout is labeled with 'V238 L A 191' on the left and 'V554 137' on the right. Below the cutout, there are two smaller rectangular sections, each labeled '12 x 40' and '167'. The material is specified as '2 N65 ø10.0 C=338'. To the right of the main drawing, there is a detail view of the cutout, showing its internal dimensions: 40 (width) x 12 (height). This detail view is labeled with 'SEÇÃO A-A' and 'ESC 1:25'. Below the detail view, there is another dimension '7' and a note '15 N4 ø6.3 C=96'.

[illegible]

Technical drawing of a beam-column joint (Ligadura de Vigas e Coluna) showing a plan view and a cross-section (SEÇÃO A-A).

Plan View:

- Top reinforcement: 2 N70 ø10.0 C=856
- Bottom reinforcement: 2 N69 ø10.0 C=845
- Stirrups: 208, 385, 385
- Lap lengths: 407, 443
- Dimensions: 15 x 25, 23 N11 ø17

Cross-section (SEÇÃO A-A):

- Dimensions: 250 x 250 mm
- Reinforcement: 10, 46 N11 ø6.3 C=72
- Stirrups: 15, 20

[illegible]

ESC 1:100

2 N74 e10,0 C=625

614

13

1

8

2

3

619

15 x 25

554

33 N11 e17

2 N74 e10,0 C=614

SEÇÃO A-A

ESC 1:25

15

10

33 N11 e6,3 C=72

ESC 1:100

Top View Dimensions:

- Overall Width: 18
- Overall Length: 18
- Top Section: 2 N121 ± 0.16 C=975
- Second Section: 2 N120 ± 0.16 C=355
- Third Section: 2x20¹namada
- Bottom Section: 3 N54 ± 0.10 C=948
- Internal Dimensions: 946, 1780, 406
- Internal Features: 1 A, 1 P29, 1 A

Side View Dimensions:

- Overall Height: 50
- Internal Height: 7
- Internal Width: 53 N54 ± 0.10 C=473

Other Labels:

- V245, V206
- 475, 430, 430, 475
- 15 x 50, 15 x 50
- 27 N5 ± 0.16 , 26 N5 ± 0.17
- 1 N53 ± 0.10 C=473
- SEC4
- ESC

ESC 1:100

2 N55 ± 10.0 C=72

423

406

73

P44

V250 $\pm$ A

P33

15 x 50

215

180

184

7N50 $\pm$ 27

7N50 $\pm$ 27

217

2 N99 ± 12.0 C=229

2 N55 ± 10.0 C=213

SEÇÃO A-A

ESC 1:25

50

15

45

10

14 N55 ± 10.0 C=122

ESC 1:100

2 N60 ø10,0 C=1139

2 N61 ø10,0 C=232

ESC 1:25

SEÇÃO A-A

1006

1189

406

Γ A

ESCALA L2E35

V208

V256

L A

V254

V250

375

15 x 50

230

13 NS c/27

470

15 x 50

450

17 NS c/27

375

15 x 50

13 NS c/27

1 N57 ø10,0 C=470

2 N59 ø10,0 C=373

2 N58 ø10,0 C=484

1500

15

45

10

43 NS ø6,3 C=122

1026

2 N122 ø10,0 C=374

244 N29 ø8,0 C=1026 (PELE)

Γ A

406

P43

L A

P44

660

20 x 89

335

12 N2 c/30

371

20 x 89

335

12 N2 c/30

1 N10 ø6,3

203

2 N62 ø10,0 C=490

165

2 N63 ø10,0 C=27

1026

50

Technical drawing of a mechanical part, likely a shaft or axle, showing various dimensions and tolerances. The drawing includes a cross-section view on the left and a side view on the right. Key dimensions include diameters (e.g., 2 N123 ø16.0 C=1106), lengths (e.g., 1028, 406), and tolerances (e.g., 20 x 69 570, 20 N12 ø30). The part is labeled with 'P43' and 'P44' at specific points along its length.

Dimensions and Tolerances:

- 2 N123 ø16.0 C=1106
- 1028
- 2 N12 ø16.0 C=374
- 2x4 N29 ø8.0 C=1026
- (PELE)
- 406
- P43
- L A
- P44
- 660
- 20 x 69 570
- 20 N12 ø30
- 371
- 20 x 69 335
- 12 N2 ø30
- 1 N10 ø1.3
- 203
- 2 N62 ø10.0 C=660
- 1028
- 165 2 N63 ø10.0 C=2
- 2 N64 ø10.0 C=1036

[illegible]

01	17/07/2013	PROJETO ESTRUTURAL	
Nº	DATA	RESPONSÁVEL	
DESCRIÇÃO DA REVISÃO:			
 AS BUILT ENGENHARIA DE PROJETOS LTDA Rua João do Rio Preto, 1564 - Boa Vista CEP 62560-435 - Curitiba - Paraná email:projeto2002@gmail.com - (41)3888-4949			
FICHA:			
PROJETO ESTRUTURAL			
CONFERIR MEDIDAS NA OBRA			
OBRA:			
BIBLIOTECA			
CAMPUS UNAI			
PROPRIETÁRIO:	UNIVERSIDADE FEDERAL DOS VALES DO JACUÍTIPOINHA E MUCURI	CNPJ	16.868.315/0001-57
FRANCHA:	FERRAGEM DAS VIGAS: VIGAS DO SEGUNDO PAVIMENTO (2)		
AUTOR PROJETO:			
CARLOS HENRIQUE DE SOUZA GONÇALVES CREA 73802 - P-			
ESCALA: INDICADA			DESENHO: EQUIPE
VERSÃO:	DATA:	ÁREA CONSTRUÍDA:	FOLHA
VERSÃO 1	17/07/2013	4,127,32 m²	13/20
ARQUIVO:			