

[illegible]

Technical drawing of a bridge structure, showing a plan view and a cross-section A-A.

Plan View:

- Overall length: 435m (135m + 175m + 130m).
- Span 1 (Left): 2 N2 $\varnothing$ 10 C=180.
- Span 2 (Middle): 2 N3 $\varnothing$ 10 C=600.
- Span 3 (Right): 2 N2 $\varnothing$ 10 C=180.
- Abutment 1 (Left): 2 N1 $\varnothing$ 6.3 C=340.
- Abutment 2 (Right): 2 N1 $\varnothing$ 6.3 C=340.
- Bridge Deck: 28 $\varnothing$ 5 C/20 N6 (556).
- Bridge Piers: 13 $\varnothing$ 5 C/20 N6 (254).
- Bridge Abutments: 28 $\varnothing$ 5 C/20 N6 (559).
- Bridge Deck Width: 12m.
- Bridge Deck Height: 6.0m.
- Bridge Deck Thickness: 15cm.
- Bridge Deck Material: (castela).
- Bridge Deck Reinforcement: 2x3 N7 $\varnothing$ 5 C=599.
- Bridge Deck Reinforcement: 2x3 N8 $\varnothing$ 5 C=300.
- Bridge Deck Reinforcement: 2x3 N9 $\varnothing$ 5 C=580.
- Bridge Deck Reinforcement: 2 N4 $\varnothing$ 10 C=620.
- Bridge Deck Reinforcement: 2 N5 $\varnothing$ 10 C=320.
- Bridge Deck Reinforcement: 2 N4 $\varnothing$ 10 C=620.

Corte A A:

- Overall height: 6.0m.
- Bridge Deck: 28 $\varnothing$ 5 C/20 N6 (556).
- Bridge Piers: 13 $\varnothing$ 5 C/20 N6 (254).
- Bridge Abutments: 28 $\varnothing$ 5 C/20 N6 (559).
- Bridge Deck Width: 12m.
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- Bridge Deck Reinforcement: 2 N4 $\varnothing$ 10 C=620.
- Bridge Deck Reinforcement: 2 N5 $\varnothing$ 10 C=320.
- Bridge Deck Reinforcement: 2 N4 $\varnothing$ 10 C=620.

Technical drawing of a structural connection (Corte A) showing a beam-to-column joint.

Side Elevation:

- Top flange: 2 N2 ø 12.5, C=260
- Bottom flange: 2 N1 ø 6.3, C=340
- Beam height: 171
- Column height: 171
- Connection detail: 2 N3 ø 12.5, C=180
- Distance from column face to beam centerline: 175
- Labels: A, A, v9, P23, P20, P19, P24, P2, P3, P4, P9

Corte A (Cross Section):

- Beam profile: I-beam with height 171 and flange width 40
- Column profile: H-section with height 171 and flange width 40
- Labels: 15, 12, 7, 32 N6 ø 5 C=100

Bottom Section:

- Labels: (costa), 2x2 N7 ø 5 C=680, 2 N5 ø 10 C=680

Technical drawing of a roof structure (Corte A) showing various steel components and their dimensions.

Top Components:

- Left: 2 N2 ϕ 8 C=180 (Length: 160)
- Right: 2 N3 ϕ 8 C=200 (Length: 180)

Horizontal Components:

- Top: 2 N1 ϕ 6.3 C=250 (Length: 90)
- Bottom: 2 N4 ϕ 8 C=510 (Length: 510)

Vertical Components:

- Left: P49
- Right: P42
- Center: 24 N5 ϕ 5 C=100 (Length: 240)

Dimensions and Details:

- Horizontal distance between vertical centerlines: 240 (460)
- Vertical distance between horizontal centerlines: 240 (460)
- Section A-A is indicated at the bottom center.

Section A-A Details:

- Top flange: 15 ϕ 8
- Web: 2x2 ϕ 5
- Bottom flange: 2x2 ϕ 5
- Section height: 32

Technical drawing of a reinforced concrete slab (Losa) showing top and side views.

Top View Dimensions:

- Overall width: 250
- Overall length: 195
- Reinforcement bars (top):
 - 2 N2 ø 12.5 C=280
 - 2 N3 ø 10 C=180
 - 2 N1 ø 6.3 C=340
- Reinforcement bars (bottom):
 - 2 N4 ø 10 C=680
 - 32 N5 ø 5 C=140
 - 32 ø 5 C/20 N5 (est.)
- Section cut: A-A

Side View Dimensions:

- Overall thickness: 15
- Section cut: Corte A

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Technical drawing of a bridge structure, showing a plan view and a cross-section labeled "Corte A".

Plan View:

- Overall length: 231m (left span) + 165m (middle span) + 231m (right span) = 627m.
- Reinforcement details:
 - 2 N2 $\varnothing$ 12.5 C=260 (top deck reinforcement, left span)
 - 2 N1 $\varnothing$ 6.3 C=500 (bottom deck reinforcement, middle span)
 - 32 N4 $\varnothing$ 5 C/20 (N4 (631)) (bottom deck reinforcement, middle span)
 - 2 N3 $\varnothing$ 10 C=680 (bottom deck reinforcement, right span)
 - 2x2 N5 $\varnothing$ 5 C=681 (bottom deck reinforcement, right span)
- Structural elements: P21, P22, P6, P7 (piers/abutments); A1, A2 (abutments).

Corte A (Cross-section):

- Span: 32m (C=100).
- Deck width: 15m.
- Reinforcement: 32 N4 $\varnothing$ 5 C=100.
- Dimensions: 10m (top flange), 7m (bottom flange).

Technical drawing of a reinforced concrete beam cross-section and elevation.

Cross-section (Top):

- Width: 231
- Height: 171
- Top reinforcement: 2 N2 ϕ 12.5 C=200
- Bottom reinforcement: 4 N3 ϕ 12.5 C=260
- Distance between top bars: 115
- Distance between bottom bars: 2 N1 ϕ 6.3 C=340

Elevation (Bottom):

- Length: 680
- Bottom reinforcement: 2 N4 ϕ 12.5 C=680
- Top reinforcement: 32 N5 ϕ 5 C=20
- Supports: P28
- Detail: Corte A (15x7)

Technical drawing of a mechanical part with dimensions and labels:

- Top View:**
 - Overall width: 199
 - Overall height: 20
 - Internal width: 2 N1 $\varnothing$ 10
 - Internal height: C=237
 - Feature A: A horizontal slot on the left side.
- Side View (Corte A):**
 - Overall width: 15
 - Overall height: 2 $\varnothing$ 10
 - Internal width: 6
 - Internal height: 2 $\varnothing$ 8
 - Feature A: A horizontal slot on the left side.
- Bottom View:**
 - Overall width: 198
 - Overall height: 20
 - Internal width: 2 N2 $\varnothing$ 8
 - Internal height: C=234
 - Feature A: A horizontal slot on the left side.
- Front View:**
 - Overall width: 14
 - Overall height: 22
 - Internal width: 5
 - Internal height: C=12
 - Feature A: A horizontal slot on the left side.
- Labels:**
 - Corte A:** Section line A-A.
 - P47:** Part number.
 - P43:** Part number.
 - 14 N3 $\varnothing$ 5 C=BD:** Dimension line for the front view.

50A	2	8	2	234	468
60A	3	5	14	80	1120

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	298	200
50A	6,3	104	26
8	8	22	9
50A	10	321	198
50A	12,5	110	106
Peso Total	60A =		200 kgf
Peso Total	50A =		339 kgf

REVISÃO	ASSUNTO	DESENHO	DATA
PAGO		APROVO	
CONSELHO PROFISSIONAL		PROPRIETARIO	
		PROJETO	
		PROJETO	
		CONSTRUÇÃO	

	 GOVERNO DO ESTADO DO CEARÁ <i>Secretaria das Cidades</i>																
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PROJETO: CENTRO DE EDUCAÇÃO INFANTIL PAIDRAO 6 SALAS																	
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