

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

Top View:

- Overall width: 605 (left section), 585 (right section).
- Reinforcement bars: 2 N1 $\varnothing$ 6.3 C=300, 2 N2 $\varnothing$ 10 C=180, 2 N3 $\varnothing$ 10 C=660, 2 N4 $\varnothing$ 10 C=620, 2 N5 $\varnothing$ 8 C=300, 2 N6 $\varnothing$ 10 C=600, 2 N7 $\varnothing$ 5 C/20 N7 (359), 2 N8 $\varnothing$ 5 C=600, 2 N9 $\varnothing$ 5 C=300, 2 N10 $\varnothing$ 5 C=580.
- Dimensions: 151, 105, 200, 155, 151, 605, 585, 600.
- Section lines: A-A, B-B, C-C.

Side View:

- Slab thickness: 150 mm.
- Reinforcement bars: 2 N1 $\varnothing$ 6.3 C=300, 2 N2 $\varnothing$ 10 C=180, 2 N3 $\varnothing$ 10 C=660, 2 N4 $\varnothing$ 10 C=620, 2 N5 $\varnothing$ 8 C=300, 2 N6 $\varnothing$ 10 C=600, 2 N7 $\varnothing$ 5 C/20 N7 (359), 2 N8 $\varnothing$ 5 C=600, 2 N9 $\varnothing$ 5 C=300, 2 N10 $\varnothing$ 5 C=580.
- Dimensions: 151, 105, 200, 155, 151, 605, 585, 600.

Technical drawing of a bridge deck cross-section, showing various structural details, reinforcement, and dimensions. The drawing includes a top view of the deck with reinforcement bars (N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11) and their respective diameters and spacings. It also shows a side view of the deck with reinforcement bars (P35, P36, P37, P38, P39) and their respective diameters and spacings. The drawing includes a section line A-A and a section line B-B. The drawing is divided into several sections, each with its own set of dimensions and reinforcement details. The overall width of the deck is 13.5m, and the overall height is 1.05m. The drawing is a technical drawing of a bridge deck cross-section, showing various structural details, reinforcement, and dimensions.

[illegible]

Technical drawing of a rectangular plate with dimensions and material specifications. The drawing includes a top view and a side view.

Top View:

- Overall dimensions: 274 (width) x 22 (height).
- Material: 2 N1 σ 8 C=310.
- Section A-A is indicated.

Side View:

- Overall dimensions: 22 (width) x 274 (height).
- Material: 2 N2 σ 5 C=80.
- Section A-A is indicated.

Section A-A:

- Top flange: 15 (width) x 30 (height). Material: 2 σ 8.
- Bottom flange: 22 (width) x 22 (height). Material: 2 σ 8.

[illegible]

Corte A

170
2 N2 $\varnothing$ 10
C=200

110

2 N1 $\varnothing$ 6,3
C=320

150
2 N3 $\varnothing$ 10
C=180

30

15
60
34

2 - $\varnothing$ 10

2 - $\varnothing$ 10

30

28 $\varnothing$ 8 C/20
N5 (518)

P56
P53

P34
P31

26 N5 $\varnothing$ 5 C=140

32

15

(cassola)

2x3 N6 $\varnothing$ 5 C=566

2 N4 $\varnothing$ 10 C=566

303

2 N1 $\varnothing$ 10

C=365

15

A

63

15

3 $\varnothing$ 10

3 $\varnothing$ 10

52

7

13 N3 $\varnothing$ 5 C=140

13 $\varnothing$ 5 C/20

N3 (254)

P31

P45

P18

P30

(coste)

2x3 N4 $\varnothing$ 5 C=303

2 N2 $\varnothing$ 10 C=305

Fck:	≥ 30MPa
Ecl:	≥ 30,7GPa
Cobrimentos:	
LAJES	- 2,5cm
VIGAS	- 3,0cm
PILARES	- 3,0cm
FUNDAÇÕES	- 4,0cm
Faixa de Agressividade Ambiental:	
MODERADA	

	AÇO	POS	BIT	QUANT	COMPROMIMENTO	
					UNIT	TOTAL
V15			mm		cm	
	50A	1	6,3	2	300	600
	50A	2	12,5	2	200	400
	50A	3	6,3	2	240	480
	50A	4	12,5	2	160	320
	50A	5	12,5	2	440	880
	50A	6	10	2	200	400
	50A	7	10	2	660	1320
	50A	8	10	2	580	1160
	50A	9	8	2	420	840
V16	50A	10	5	75	100	7500
	60A	11	5	4	640	2560
	60A	12	5	4	360	2240
	60A	13	5	4	160	1280
	50A	1	6,3	4	300	1200
	50A	2	10	2	720	1440
	50A	3	10	2	660	1320
	50A	4	10	2	620	1240
	50A	5	8	2	300	600
	50A	6	10	2	600	1200
V17	60A	7	5	69	100	6900
	60A	8	5	4	600	2400
	60A	9	5	4	300	1200
	60A	10	5	4	580	2320
	50A	1	6,3	2	240	480
	50A	2	10	2	180	360
	50A	3	10	2	940	1880
	50A	4	10	2	640	1280
	50A	5	10	2	760	1520
	50A	6	10	2	1560	3120
V18	60A	7	10	2	350	700
	60A	8	5	87	140	12180
	60A	9	5	10	510	3114
	60A	10	5	6	260	1560
	60A	11	5	6	520	3120
	60A	12	5	3	300	1800
	60A	13	5	6	340	2040
	50A	1	6,3	2	220	440
	50A	2	8	2	160	320
	50A	3	8	2	650	1300
V19	50A	4	8	2	680	1360
	50A	5	8	2	500	1000
	50A	6	8	2	720	1440
	50A	7	8	2	440	880
	60A	8	5	75	100	7500
	60A	9	5	4	480	1920
	60A	10	5	32	1280	3200
	60A	11	5	4	440	1760
	60A	12	5	4	420	1680
	50A	1	8	4	310	1240
V20	60A	2	5	22	80	1760
	50A	1	6,3	2	220	440
	50A	2	8	2	150	300
V21	50A	3	8	2	540	1080
	50A	4	12,5	2	440	880
	50A	5	8	2	440	880
	60A	6	5	40	100	4000
	60A	7	5	4	420	1680
	60A	8	5	4	400	1600
	50A	1	8	4	245	980
V24=V31	60A	2	5	13	80	1040
	50A	1	6,3	4	320	1280
	50A	2	10	4	200	800
V25=V50	50A	3	10	4	180	720
	50A	4	10	4	565	2260
	60A	5	5	52	140	7280
	60A	6	5	12	366	6792
	50A	1	10	4	365	1460
V25=V50	50A	2	10	4	305	1220
	60A	3	5	26	140	3640
	60A	4	5	30	160	3600
	60A	5	5	12	366	6792
	60A	6	5	12	366	6792

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	961	148
50A	6,5	49	12
50A	8	109	43
50A	10	225	139
50A	12,5	29	28
Peso Total	60A =		148 kgf
Peso Total	50A =		222 kgf

04	REVISÃO DA FACHADA	DL	14/08/2024
03	REVISÃO VIGAS V47,V48 E V51 DO CINTAMENTO	DL	13/12/2023
02	REVISÃO GERAL	DL	18/09/2023
01	CORREÇÃO DAS VIGAS DO CINTAMENTO	DL	11/07/2023
REVISÃO	ASSUNTO	DI/SINHO	DATA

PAGO	APROVO
CONSELHO PROFISSIONAL	PROPRIETÁRIO _____ PROJETO _____ PROJETO _____ CONSTRUÇÃO _____

CONSELHO PROFISSIONAL

SOP-CE
SUPERINTENDÊNCIA
DE OBRAS PÚBLICAS



GOVERNO DO
ESTADO DO CEARÁ
Secretaria das Cidades

SECRETARIA DAS CIDADES
SOP - SUPERINTENDÊNCIA DE OBRAS PÚBLICAS

PROJETO: **CENTRO DE EDUCAÇÃO INFANTIL**
PADRÃO 6 SALAS

INTERESSADO:	ÁREA TÉCNICA:
SEDUC	ESTRUTURA DE CONCRETO ARMADO

ENDEREÇO:	ETAPA:	
	EXECUTIVO	
	CONTEÚDO:	ESCALA:

MUNICÍPIO:	CE	CONTEÚDO:	ESCALA:
		ARM. VIGAS DO CINTAMENTO	1/25
		(V15,V16,V17,V18,V19,V20,V21,V24,V25,V31,V50)	

AUTOR:		CREA:	
TELEPHONE:	EMAIL:		

AUTOR: _____ CREA: _____
TELEPHONE: _____ EMAIL: _____

RESERVA DE PROPRIEDADE INTELECTUAL	DESENHO: DL	PRANCHA:
A PROPRIEDADE INTELECTUAL DO PRESENTE PROJETO É RESERVADA AOS SEUS AUTORES DE	DATA: 14/08/2024	

ACORDO COM A LEGISLAÇÃO PERTINENTE: O CONTEÚDO DESTA PROPOSTA OU DE QUALQUER DE SEUS ELEMENTOS, QUE NÃO FORMAM OS DETERMINADOS, SERÃO CONSIDERADOS COMO APROPRIAÇÃO ILÍCITA E SERÃO APLICADAS AS LEIS QUE DEFENDEM DITOS DIREITOS A TODOS OS EFEITOS

REVISÃO: 04

ESTADO DO RIO DE JANEIRO, 2023. 6 SALAS R4.dwg

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