

[illegible]

Technical drawing of a reinforced concrete beam (Fig. 10.10). The drawing shows a side elevation and a cross-section.

Side Elevation:

- Overall length: 4.74m (1.5m + 2.0m + 1.24m).
- Beam height: 0.15m.
- Supports: P368 and P268, with a center-to-center distance of 4.74m.
- Reinforcement details:
 - Top: 3 N2 @ 10 cm (150) in the first 1.5m section, 3 N2 @ 10 cm (150) in the middle 2.0m section, and 2 N4 @ 10 cm (150) in the last 1.24m section.
 - Bottom: 2 N1 @ 5 cm (75) in the first 1.5m section, 2 N1 @ 5 cm (75) in the middle 2.0m section, and 2 N4 @ 10 cm (150) in the last 1.24m section.

Cross-section:

- Width: 0.15m.
- Height: 0.15m.
- Reinforcement: 20 N6 @ 5 Cm=135.

Technical drawing of a reinforced concrete slab (L.1) showing plan and section views. The plan view shows a rectangular slab with dimensions 2760 mm by 1560 mm. It includes reinforcement details: 2 N1, 6, 3 C=336 for the top and 3 N2, 7 C=306 for the bottom. Section views show a cross-section with a height of 150 mm and reinforcement bars with diameters of 15 mm and 9 mm. The drawing is labeled 'L.1' and '1:1'.

Technical drawing of a mechanical part, likely a bracket or support, showing front and side views with dimensions and tolerances.

Front View (Top):

- Overall width: 147
- Top flange: 3 N2 \pm 10 C=197 (2xCAM)
- Distance from top flange to main body: 96
- Main body width: 2 N1 \pm 5 C=327
- Distance from main body to side flange: 1 N5 \pm 10 C=225 (2xCAM)
- Side flange width: 2 N4 \pm 10 C=372
- Distance from side flange to end: 12F
- End flange: 3 N6 \pm 10 C=195 (2xCAM)
- Overall height: 145

Side View (Bottom):

- Overall height: 145
- Top flange: 3 N6 \pm 10 C=195 (2xCAM)
- Distance from top flange to main body: 96
- Main body height: 2 N1 \pm 5 C=327
- Distance from main body to side flange: 1 N5 \pm 10 C=225 (2xCAM)
- Side flange height: 2 N4 \pm 10 C=372
- Distance from side flange to end: 12F
- End flange: 3 N6 \pm 10 C=195 (2xCAM)
- Overall width: 147

Front View (Bottom):

- Overall width: 147
- Top flange: 3 N2 \pm 10 C=197 (2xCAM)
- Distance from top flange to main body: 96
- Main body width: 2 N1 \pm 5 C=327
- Distance from main body to side flange: 1 N5 \pm 10 C=225 (2xCAM)
- Side flange width: 2 N4 \pm 10 C=372
- Distance from side flange to end: 12F
- End flange: 3 N6 \pm 10 C=195 (2xCAM)
- Overall height: 145

Side View (Top):

- Overall height: 145
- Top flange: 3 N6 \pm 10 C=195 (2xCAM)
- Distance from top flange to main body: 96
- Main body height: 2 N1 \pm 5 C=327
- Distance from main body to side flange: 1 N5 \pm 10 C=225 (2xCAM)
- Side flange height: 2 N4 \pm 10 C=372
- Distance from side flange to end: 12F
- End flange: 3 N6 \pm 10 C=195 (2xCAM)
- Overall width: 147

Dimensions and Tolerances:

- 147
- 3 N2 \pm 10 C=197 (2xCAM)
- 96
- 2 N1 \pm 5 C=327
- 1 N5 \pm 10 C=225 (2xCAM)
- 2 N4 \pm 10 C=372
- 12F
- 3 N6 \pm 10 C=195 (2xCAM)
- 145
- 147
- 2 N3 \pm 5 C=328
- VB430b-15X80
- VB430a-15X80
- 60 N12 \pm 5 C=135
- 17 \pm 0,5 C=107,5 N12 (136,5)
- 13 \pm 0,5 C=115 N7 (130)
- 13 \pm 0,5 C=115 N7 (130)
- 17 \pm 0,5 C=107,5 N7 (136,5)
- 2x2 N13 \pm 6,3 C=627
- 2x2 N13 \pm 6,3 C=627
- 2x1 N11 \pm 8 C=116
- 2 N10 \pm 10 C=444
- 2 N9 \pm 10 C=643
- 2 N7 \pm 12,5 C=654
- 1 N8 \pm 12,5 C=433
- 634
- 628
- 54
- 34
- 15

Technical drawing of a mechanical assembly showing a top view and a side view.

Top View:

- Overall dimensions: 166 (width) and 165 (length).
- Central section dimensions: 118 (width) and 118 (length).
- Hole specifications:
 - 2 N1 Ø 10 C=197 (left side)
 - 2 N3 Ø 10 C=196 (right side)
 - 3 N2 Ø 10 C=268 (20C4W) (central section)
- Material/Part numbers: VB4370-15X40 (indicated twice).

Side View (Corte A):

- Overall dimensions: 15 (width) and 9 (height).
- Central section dimensions: 118 (width) and 118 (length).
- Hole specifications:
 - 2 N1 Ø 10 C=197 (left side)
 - 2 N3 Ø 10 C=196 (right side)
 - 22 N5 Ø 5 C=99 (bottom section)

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Corte

Technical drawing of a rectangular plate. The top view shows a rectangle with a width of 20 and a height of 40. It has two holes on the right side, each with a diameter of 5 and a center-to-center distance of 3. The bottom view shows a rectangle with a width of 14 and a height of 3. The material is specified as 185 N1 with a thickness of 5, and the drawing is labeled C/15 C=109.

20
40
5
3
14
3
185 N1 5 C/15 C=109

	ACO	POS	BIT	QUANT	COMPRIMENTO	
			(mm)		UNIT (cm)	TOTAL (cm)
ANEL DA EMPENNA	50A	1	6,3	50	73	3650
	50A	2	6,3	3	409	118
	50A	3	6,3	2	371	74
CINTA SOBRE EMPENNA	50B	1	10	180	109	20165
	50B	2	10	6	600R	360
	50B	3	10	5	180	180
VB425=VB427 VB435=VB437	50A	1	6,3	10	179	6780
	50A	2	10	185	179	1670
	50A	3	160	202	166	730
	50A	4	160	202	166	730
	50A	5	140	240	140	5016
	50A	6	140	240	148	14980
	50B	7	8	262,5	159	42135
	50B	8	8	80	281	10680
VB427	50A	1	6,3	2	331	663
	50A	2	10	3	301	903
	60B	3	5	11	139	1529
VB428	50A	1	5	2	253	506
	50A	2	10	10	110	110
	50A	3	5	10	204	1008
VB429	50A	1	5	2	272	544
	50A	2	10	4	90	360
	60B	3	5	20	139	2780
VB430	50A	1	6,3	3	336	918
	50A	2	10	3	306	918
	60B	3	5	11	139	1529
VB435	50B	1	5	2	327	654
	50B	2	10	197	197	197
	50B	3	5	2	328	656
	50B	4	10	185	185	185
	50B	5	172	1	125	225
	50B	6	10	3	185	585
	50B	7	12,5	158	154	2438
	50B	8	12,5	5	433	433
	50B	9	11	8	433	886
	50A	10	10	2	444	888
	50B	11	8	116	116	116
VB437	50B	12	5	60	139	8340
	50B	13	5	62,7	8	527
	50B	14	5	8	527	604
	50B	15	5	3	187	561
	50B	16	5	2	226	452
VB437	50A	1	4	10	122	444
	50A	2	10	10	195	390
	50A	3	10	10	243	886
	50A	4	10	10	185	185
	50A	5	10	10	185	185
	50A	6	10	10	243	1286
	50A	7	10	10	145	145
	50A	8	11	5	78	140
	50A	9	12	6,3	8	617
	50A	10	5	10	197	394
	50A	11	5	10	268	504
VB439	50A	1	5	2	196	392
	50A	2	10	3	330	660
	50A	3	5	22	99	2178
	50B	1	5	2	197	394
	50A	2	3	3	268	804
	50A	3	3	3	196	588
VB439	50A	4	10	2	532	1064
	50B	5	10	98	98	1064
	50B	6	5	11	99	1089
	50B	7	5	26,7	3	801
	50A	8	5	3	240	480
	50A	9	5	3	197	394
VB439	50A	10	5	2	279	558
	50A	4	10	3	316	632
	50A	5	10	1	168	168
	50A	6	5	3	137	274
	50A	7	10	3	1023	3069
	50A	8	10	3	140	140

RESUMO AÇO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	1057	183
50A	6,3	271	66
50A	8	418	165
50A	10	481	297
50A	12,5	17	17
50A	16	300	474
Peso Total		60B =	163 kg
Peso Total		50A =	1019 kg

CONCRETO : FCK = 30 MPa			
10			
09			
08			
07			
06			
05			
04			
03			
02			
01	REVISÃO GERAL	23/08/2019	PL
00	EMISSÃO INICIAL	12/07/2018	PL
	EMISSÃO	14/7/2018	PL

SETOR:	SAMAMBAIA	
ENDEREÇO:	QS 425 - AE 02 SAMAMBAIA SUL - DF	
PROPRIETÁRIO:	SECRETARIA DE EDUCAÇÃO DO DISTRITO FEDERAL	
AUTOR DO PROJETO:	PEDRO LUIZ BERNARDES JÚNIOR	ART: 07201800453
RESP. TÉCNICO:		

PROPRIETÁRIO


Pedro Luiz Bernardes Junior

AUTOR DO PROJETO: PEDRO LUIZ BERNARDES JÚNIOR

CREA: 23886/D-DF

RESP. TÉCNICO

RA	OUTROS

 NOVACAP <small>NOVA BRASILEIRA</small> PROJ-40-026-18	TÍTULO DO PROJETO: PROJETO EXECUTIVO DE ESTRUTURAS	STF 060 REV.00
	NOME DO PROJETO: RECONSTRUÇÃO DA ESCOLA CLASSE 425 SAMAMBAIA	
	NOME DO PROJETO: ARMACÃO DE VIGAS - COB - TRECHO B	
	DATA DE EMISSÃO: 12/07/2018 ESCALA: 1:30 NOME E N.º DO ARQUIVO: PROJ-RE-026-18-STF-PR-040-COB-VIG-000	

STF
060
REV.00

(PRANCHA VÁLIDA APENAS SE PLOTADA OU COPIADA EM CORES)