

[illegible]

Technical drawing of a mechanical assembly, showing a side view and two cross-sections.

Side View Dimensions:

- Top dimensions: 180, 2 N1 Ø10 C=200, 180, 1 N1 Ø10 C=200 (1 Ø 2aCAM), 208, 2 N3 Ø12.5 C=455, 45 (2 Ø 2aCAM), 2 N4 Ø12.5 C=170.
- Bottom dimensions: 385, 2 N5 Ø10 C=400, 126, 2 N7 Ø10 C=350, 594, 2 N6 Ø10 C=622.
- Internal dimensions: 14/50, 14/65, 16 Ø5, 18 Ø5, 2 Ø10, 2 Ø12.5, 4 Ø12.5, 4 Ø12.5, 2 Ø16, 2 Ø10, 2x3 Ø6.3, 4 Ø10, 2 Ø10, 2 Ø16, 3x2 Ø6.3, 1 Ø10, 3 Ø10.

Cross-sections:

- Left Cross-section:** Shows a vertical component with a diameter of 16 Ø5 and a length of 123. It is labeled 16 N8 Ø5 C=123.
- Right Cross-section:** Shows a vertical component with a diameter of 29 N9 Ø5 and a length of 153. It is labeled 29 N9 Ø5 C=153.

Other Labels:

- Costela (rib) label: 2x3 N10 Ø6.3 C=566.
- Part labels: P24, P17, P1.

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Diagrama de uma barra de aço com as seguintes dimensões e fórmulas:

- quantidade de barras**: $2 N1 Ø 10 C = 360$
 - diâmetro da barra em milímetros**
 - comprimento da barra em centímetros**
 - posição da ferragem**
- quantidade de barras de armadura de pele em cada face da viga**: $2X2 N4 Ø5 C = 215$
 - armadura de pele em ambos os lados da viga**
 - posição da barra**
 - comprimento total da barra em centímetros**
 - diâmetro da barra em milímetros**
- quantidade de estribos**: $16 N2 Ø5 C/15 C = 100$
 - diâmetro do estribo em milímetros**
 - espagamento dos estribos em centímetros**
 - comprimento total do estribo em centímetros**
 - posição do estribo**

| Materiais: | Recobrimentos: |
|---|-----------------------|
| - Açø.....: CA50 e CA60 | - Vigas.....: 2,5cm |
| - Concreto Estrutural.....: 30 MPa (300 kgf/cm ²) | - Pilares.....: 2,5cm |
| - Deve ser mantido cura úmida do concreto por 7 dias | - Lajes.....: 2,0cm |
| - Deve ser mantido o escoramento por no mínimo por 21 dias | - Sapatas.....: 5,0cm |
| - Só poderão ser executadas paredes após 28 dias da concretagem | |
| - Deve ser utilizado espaçadores plásticos para garantir o recobrimento dos elementos | |
| - Todas as cotas em centímetros, exceto cotas de níveis que estão em metros | |

Technical drawing of a bridge structure, showing various components and dimensions:

- Top Section:**
 - 2 N1 Ø 6.3 C=495
 - 14/60 (arrow pointing to a vertical dimension)
 - N4 C=20
 - 22 Ø 5
 - 2 Ø 6.3
 - 2x1 Ø 5
 - 2x3 Ø 6.3
 - 3 Ø 10 vs-32
 - 2x1 Ø 8
 - VS-35
 - VS-26
- Right Section:**
 - 2 Ø 6.3
 - 3x2 Ø 6.3
 - 3 Ø 10
 - Ø
 - 5.5
 - 22 N4 Ø 5 C=143
- Bottom Section:**
 - 2x1 N3 Ø 8 C=80
 - 36
 - 2x1 N3 Ø 8 C=80
 - 36
 - 1 N2 Ø 10 C=488
 - 456
 - 2 N2 Ø 10 C=488
 - 456
- Other Labels:**
 - (costela)
 - 457
 - 2x3 N5 Ø 6.3 C=475

Technical drawing of a mechanical part, likely a shaft or axle, showing various dimensions and specifications.

Top Section (Cross-section):

- Overall length: 50
- Section 1: 2 N1 Ø 16, C=564
- Section 2: 2 N2 Ø 16, C=288
- Section 3: 2 N3 Ø 16, C=528
- Section 4: 2 N4 Ø 16, C=290
- Section 5: 2 N5 C15 Ø 10, C=115
- Section 6: 2 N6 C12.5 Ø 16, C=13
- Section 7: 2 N7 Ø 6.3, C=16
- Section 8: 2 N8 Ø 6.3, C=16
- Section 9: 2 N9 Ø 16, C=16
- Section 10: 2 N10 Ø 16, C=16
- Section 11: 2 N11 Ø 16, C=16
- Section 12: 2 N12 Ø 16, C=16
- Section 13: 2 N13 Ø 16, C=16
- Section 14: 2 N14 Ø 16, C=16
- Section 15: 2 N15 Ø 16, C=16
- Section 16: 2 N16 Ø 16, C=16
- Section 17: 2 N17 Ø 16, C=16
- Section 18: 2 N18 Ø 16, C=16
- Section 19: 2 N19 Ø 16, C=16
- Section 20: 2 N20 Ø 16, C=16
- Section 21: 2 N21 Ø 16, C=16
- Section 22: 2 N22 Ø 16, C=16
- Section 23: 2 N23 Ø 16, C=16
- Section 24: 2 N24 Ø 16, C=16
- Section 25: 2 N25 Ø 16, C=16
- Section 26: 2 N26 Ø 16, C=16
- Section 27: 2 N27 Ø 16, C=16
- Section 28: 2 N28 Ø 16, C=16
- Section 29: 2 N29 Ø 16, C=16
- Section 30: 2 N30 Ø 16, C=16
- Section 31: 2 N31 Ø 16, C=16
- Section 32: 2 N32 Ø 16, C=16
- Section 33: 2 N33 Ø 16, C=16
- Section 34: 2 N34 Ø 16, C=16
- Section 35: 2 N35 Ø 16, C=16
- Section 36: 2 N36 Ø 16, C=16
- Section 37: 2 N37 Ø 16, C=16
- Section 38: 2 N38 Ø 16, C=16
- Section 39: 2 N39 Ø 16, C=16
- Section 40: 2 N40 Ø 16, C=16
- Section 41: 2 N41 Ø 16, C=16
- Section 42: 2 N42 Ø 16, C=16
- Section 43: 2 N43 Ø 16, C=16
- Section 44: 2 N44 Ø 16, C=16
- Section 45: 2 N45 Ø 16, C=16
- Section 46: 2 N46 Ø 16, C=16
- Section 47: 2 N47 Ø 16, C=16
- Section 48: 2 N48 Ø 16, C=16
- Section 49: 2 N49 Ø 16, C=16
- Section 50: 2 N50 Ø 16, C=16
- Section 51: 2 N51 Ø 16, C=16
- Section 52: 2 N52 Ø 16, C=16
- Section 53: 2 N53 Ø 16, C=16
- Section 54: 2 N54 Ø 16, C=16
- Section 55: 2 N55 Ø 16, C=16
- Section 56: 2 N56 Ø 16, C=16
- Section 57: 2 N57 Ø 16, C=16
- Section 58: 2 N58 Ø 16, C=16
- Section 59: 2 N59 Ø 16, C=16
- Section 60: 2 N60 Ø 16, C=16
- Section 61: 2 N61 Ø 16, C=16
- Section 62: 2 N62 Ø 16, C=16
- Section 63: 2 N63 Ø 16, C=16
- Section 64: 2 N64 Ø 16, C=16
- Section 65: 2 N65 Ø 16, C=16
- Section 66: 2 N66 Ø 16, C=16
- Section 67: 2 N67 Ø 16, C=16
- Section 68: 2 N68 Ø 16, C=16
- Section 69: 2 N69 Ø 16, C=16
- Section 70: 2 N70 Ø 16, C=16
- Section 71: 2 N71 Ø 16, C=16
- Section 72: 2 N72 Ø 16, C=16
- Section 73: 2 N73 Ø 16, C=16
- Section 74: 2 N74 Ø 16, C=16
- Section 75: 2 N75 Ø 16, C=16
- Section 76: 2 N76 Ø 16, C=16
- Section 77: 2 N77 Ø 16, C=16
- Section 78: 2 N78 Ø 16, C=16
- Section 79: 2 N79 Ø 16, C=16
- Section 80: 2 N80 Ø 16, C=16
- Section 81: 2 N81 Ø 16, C=16
- Section 82: 2 N82 Ø 16, C=16
- Section 83: 2 N83 Ø 16, C=16
- Section 84: 2 N84 Ø 16, C=16
- Section 85: 2 N85 Ø 16, C=16
- Section 86: 2 N86 Ø 16, C=16
- Section 87: 2 N87 Ø 16, C=16
- Section 88: 2 N88 Ø 16, C=16
- Section 89: 2 N89 Ø 16, C=16
- Section 90: 2 N90 Ø 16, C=16
- Section 91: 2 N91 Ø 16, C=16
- Section 92: 2 N92 Ø 16, C=16
- Section 93: 2 N93 Ø 16, C=16
- Section 94: 2 N94 Ø 16, C=16
- Section 95: 2 N95 Ø 16, C=16
- Section 96: 2 N96 Ø 16, C=16
- Section 97: 2 N97 Ø 16, C=16
- Section 98: 2 N98 Ø 16, C=16
- Section 99: 2 N99 Ø 16, C=16
- Section 100: 2 N100 Ø 16, C=16

Bottom Section (Side View):

- Overall length: 50
- Section 1: 2 N1 Ø 16, C=564
- Section 2: 2 N2 Ø 16, C=288
- Section 3: 2 N3 Ø 16, C=528
- Section 4: 2 N4 Ø 16, C=290
- Section 5: 2 N5 C15 Ø 10, C=115
- Section 6: 2 N6 C12.5 Ø 16, C=13
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- Section 46: 2 N46 Ø 16, C=16
- Section 47: 2 N47 Ø 16, C=16
- Section 48: 2 N48 Ø 16, C=16
- Section 49: 2 N49 Ø 16, C=16
- Section 50: 2 N50 Ø 16, C=16
- Section 51: 2 N51 Ø 16, C=16
- Section 52: 2 N5

Technical drawing of a mechanical assembly, likely a bracket or support structure, showing dimensions and part numbers.

Top View:

- Overall width: 20
- Overall height: 20
- Top edge features: 2 N1 Ø6.3, C=236
- Left edge features: 2 Ø10, 2x2 Ø5, 2 Ø10
- Right edge features: 2 Ø10, 3x2, 2 Ø

Front View:

- Overall height: 14/60
- Top edge features: N4 C22.5, 8 Ø5, 2 Ø6.3
- Bottom edge features: 2x1 Ø5x1 Ø9, 2 Ø10
- Left edge features: 2 Ø10, 2 Ø5
- Right edge features: 2 Ø10, 2 Ø5

Side View:

- Overall width: 15
- Overall height: 25
- Top edge features: 2 Ø10, 2x2 Ø5, 2 Ø10
- Right edge features: 2 Ø10, 3x2, 2 Ø

Bottom View:

- Overall width: 20
- Overall height: 20
- Top edge features: 2 N1 Ø6.3, C=236
- Left edge features: 2 Ø10, 2x2 Ø5, 2 Ø10
- Right edge features: 2 Ø10, 3x2, 2 Ø

Assembly Details:

- Part numbers: VS-34, VS-31, 8 N4 Ø5, C=143
- Dimensions: 197, 2x3 N5 Ø6.3 C=215, 2x1 N3 Ø8 C=80 36, 36 2x1 N3 Ø8 C=80, 196, 2 N2 Ø10 C=224
- Notes: (costela)

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