

10xP1	VB9	V8
VB1	VB10	V9
VB2	V1	V10
VB3	V2	
VB4	V3	
VB5	V4	
VB6	V5	
VB7	V6	
VB8	V7	

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	250	74	18500
50	2	5.0	582	90	52380
	3	10.0	40	297	11880
	4	10.0	4	648	2592
	5	10.0	4	634	2536
	6	10.0	4	723	2892
	7	10.0	4	709	2836
	8	10.0	4	298	1192
	9	10.0	4	284	1136
	10	10.0	4	333	1332
	11	10.0	4	319	1276
	12	10.0	4	283	1132
	13	10.0	4	269	1076
	14	10.0	4	658	2632
	15	10.0	4	644	2576
	16	10.0	4	743	2972
	17	10.0	4	729	2916
	18	10.0	8	313	2504
	19	10.0	8	304	2432
	20	10.0	4	213	852
21	10.0	4	199	796	

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	10.0	475.6	293.4
CA60	5.0	708.8	120.1
PESO TOTAL			
CA50	293.4		
CA60	120.1		

Technical drawing of a reinforced concrete slab cross-section. The drawing shows a slab with a total width of 610 mm and a total height of 190 mm. The top reinforcement consists of 2 N4 bars with a spacing of 100 mm and a cover of 648 mm. The bottom reinforcement consists of 2 N5 bars with a spacing of 100 mm and a cover of 634 mm. The slab is supported by two walls, P1 and P2, which are 150 mm wide. The distance between the centerlines of the walls is 2700 mm. The slab is 120 mm thick. The drawing also shows a 12 x 30 mm reinforcement bar with a 20 N2 c/15 spacing and a 22 N2 c/15 spacing. A 0/150 mm dimension is shown for the top reinforcement.

Technical drawing of a rectangular plate. The vertical dimension is labeled 30.0 and the horizontal dimension is labeled 12.0. The drawing shows a rectangle with a smaller rectangle inside it, representing a hole or a different material section.

25
15
42 N2 ø5.0 C=90

Technical drawing of a reinforced concrete slab cross-section. The drawing shows a slab with a total width of 685 units. The top reinforcement consists of 2 N6 bars with a spacing of 10.0 units and a cover of 723 units. The bottom reinforcement consists of 2 N7 bars with a spacing of 10.0 units and a cover of 709 units. The slab is divided into three sections: a left section of 285.0 units, a middle section of 390.0 units, and a right section of 30.0 units. The middle section contains 12 x 30 reinforcement bars and 27 N6 bars with a spacing of 15 units. The left section contains 12 x 30 reinforcement bars and 20 N6 bars with a spacing of 15 units. The drawing also shows a vertical section line P4-P and a horizontal section line 0-0.

Technical drawing of a rectangular plate. The vertical dimension is labeled 30.0 and the horizontal dimension is labeled 12.0. The drawing shows a rectangle with a smaller rectangle inside it, representing a hole or a recessed area.

47 N2 ø5.0 C=90

Technical drawing of a mechanical part, likely a shaft or rod, showing dimensions and tolerances. The drawing includes a top view and a side view. The top view shows a cylindrical part with a diameter of 26.0 mm and a length of 260 mm. The side view shows a cylindrical part with a diameter of 12 mm and a length of 260 mm. The drawing also includes a detail view of a hole with a diameter of 12 mm and a depth of 30 mm. The drawing is labeled with 'P6' and 'P7' at the ends of the shaft.

Top view of the rectangular plate. The vertical dimension is labeled 30.0 and the horizontal dimension is labeled 12.0. The plate is represented by a double-line rectangle with corner markers.

8 N2 ø5.0 C=90

Technical drawing of a reinforced concrete slab (P8) showing dimensions and reinforcement details. The drawing includes the following specifications:

- Top reinforcement: 2 N10 ϕ 10.0 C=333
- Bottom reinforcement: 2 N11 ϕ 10.0 C=319
- Internal reinforcement: 12 x 30, 20 N6 ϕ 15
- Dimensions: 295 (width), 250 (length), 150 (height), 12 (thickness), 15 (thickness), 285.0 (length), 295 (width), 12 (thickness), 15 (thickness)
- Reinforcement spacing: 0

Technical drawing of a rectangular plate. The drawing shows a top view and a side view. The top view is a rectangle with overall dimensions of 245 mm by 19 mm. The material is specified as 2 N12 ϕ 10.0 C=283. The side view shows a cross-section of the plate with a thickness of 15.0 mm. The plate has a central hole with a diameter of 12 mm and a length of 220.0 mm. The hole is positioned 15.0 mm from each side of the plate. The material for the hole is specified as 17 N6 c/15. The overall dimensions of the plate are 245 mm by 19 mm. The material is specified as 2 N13 ϕ 10.0 C=269.

Technical drawing of a rectangular plate. The vertical dimension is labeled 30.0 and the horizontal dimension is labeled 12.0. The drawing includes a small detail view of a corner with a fillet radius.

7 N2 ϕ 5.0 C=90

Technical drawing of a reinforced concrete slab cross-section (P1). The drawing shows a rectangular slab with a total width of 620 mm and a total height of 190 mm. The top reinforcement consists of 2 N14 bars with a spacing of 10.0 mm and a cover of 658 mm. The bottom reinforcement consists of 2 N15 bars with a spacing of 10.0 mm and a cover of 644 mm. The slab is supported by a wall on the left and a column on the right. The wall has a thickness of 300 mm and a height of 1200 mm. The column has a diameter of 300 mm and a height of 1200 mm. The slab is labeled 'P1' and has a '0' symbol indicating a zero moment condition at the wall support.

12 N2 ø5.0 C=90

Technical drawing of a rectangular plate. The vertical dimension is labeled 30.0 and the horizontal dimension is labeled 12.0. The drawing shows a rectangle with a smaller rectangle inside it, representing a hole or a different material section.

48 N2 ϕ 5.0 C=9

[illegible]

Top view of the rectangular plate. The horizontal dimension is labeled 30.0 and the vertical dimension is labeled 12.0. The plate is represented by a double-line rectangle with corner markers.

Technical drawing of a beam cross-section (Fig. 1.10). The section is a T-beam with a top flange and a web. Dimensions: Top flange width is 275 mm, thickness is 19 mm. Web height is 280 mm, width is 12 mm. Total height is 300 mm. Reinforcement: Top flange has 2 N18 bars (C313). Web has 12 x 30 bars (N6 c/15). Bottom reinforcement has 2 N19 bars (C304). A 30.0 mm dimension is shown for the bottom flange width.

15 25

Technical drawing of a reinforced concrete slab (P5) showing dimensions and reinforcement details. The slab is 150.0 cm wide and 12.0 cm thick. It has 2 N20 top bars (C=213) and 2 N21 bottom bars (C=199). The distance between the top bars is 175 cm. The distance between the bottom bars is 175 cm. The slab is supported by walls on all four sides. The reinforcement is shown in cross-section and plan view.

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