

Technical drawings of a square column base. The top view shows a 200x200 mm square with a central 100x100 mm square and a grid of reinforcement bars. The side view shows a trapezoidal base with a 19 mm thick top flange and a 18 mm thick bottom flange. The reinforcement bars are labeled 13P1Ø12c/15 L=221 and 12P2Ø12c/15 L=219.

Technical drawing of a steel connection. The drawing includes a top view and a side view.

Top View: Shows a square plate with a side length of 25 mm. Four bolts, labeled 4X1P4Ø16, are arranged in a square pattern with a spacing of 25 mm between them. The plate is labeled 4X1P3Ø12.

Side View: Shows the plate thickness L=126 mm. The distance from the center of the bolt pattern to the edge of the plate is 30 mm.

Detail View: Shows a bolt labeled 4X1P4Ø16 passing through a plate labeled 3P5Ø6. The hole diameter is 20 mm. The total length of the bolt assembly is L=94 mm.

Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	ADN 420 (kg)
C10	1	Ø12	13	221	2873	25.5
	2	Ø12	12	219	2628	23.3
	3	Ø12	4	126	504	4.5
	4	Ø16	4	144	576	9.1
	5	Ø6	3	94	282	0.6
	Total+10%:					69.3
C12	6	Ø12	16	VAR.	2368	21.0
	7	Ø12	5	259	1295	11.5
	8	Ø16	8	176	1408	22.2
	9	Ø6	3	114	342	0.8
	Total+10%:					61.1
C13	10	Ø10	7	98	686	4.2
	11	Ø10	3	161	483	3.0
	12	Ø12	4	106	424	3.8
	13	Ø16	4	124	496	7.8
	14	Ø6	3	114	342	0.8
	Total+10%:					21.6
					Ø6:	2.5
					Ø10:	7.9
					Ø12:	98.6
					Ø16:	43.0
					Total:	152.0

Technical drawing of a reinforced concrete column cross-section. The column is L-shaped with a total width of 148 cm (85 cm + 20 cm + 15 cm) and a total height of 60 cm (30 cm + 30 cm). The reinforcement consists of 16 bars: 6 bars in the top flange (16P6), 6 bars in the bottom flange (16P6), and 4 bars in the vertical stem (16P6). The column is labeled C12.

Technical drawing of a reinforced concrete column cross-section. The column is labeled 'C12'. The cross-section is a rectangle with a width of 20 cm and a height of 60 cm. The reinforcement consists of 5 top bars (5P7Ø12c/20) and 2 bottom bars (2P7Ø12c/20). The total length of the reinforcement is L=259 cm. The drawing shows the column with a break symbol in the middle of the height.

Technical drawings of a concrete slab reinforcement. The drawings show a cross-section of the slab with a central column (C13) and a side view of the slab. The cross-section shows a slab thickness of 20 cm and a central column of 13 cm diameter. The side view shows a slab width of 75 cm and a length of 140 cm. The reinforcement is labeled as 7P10Ø10c/20 L=98 and 3P11Ø10c/20 L=161.

Technical drawing of a steel connection. The drawing shows a cross-section of a beam-to-column joint. The beam is composed of 4x I 13 Ø16 channels (top) and 4x I 12 Ø12 channels (bottom). The column is composed of 4x I 13 Ø16 channels (left) and 4x I 12 Ø12 channels (right). The connection is a full-penetration butt joint. Dimensions include 30mm for the flange thickness, 106mm for the web height, 124mm for the total height, and 114mm for the flange width. A 25mm gap is shown between the flanges.