



TECHNICAL SPECIFICATIONS

TYPE:
Hot-Rolled Square Bars

STEEL GRADE:
- S235JR according to ELOT-EN 10025 (St 37-2 according to DIN 17100)
- S275JR according to ELOT-EN 10025 (St 44-2 according to DIN 17100)

FORM - DIMENSIONS:
Straight Bars with side length from 10 to 30mm

LENGTH - TOLERANCE:
Bar length 6m with tolerance -0 / +100mm

PACKING - WEIGHT:
Bundles weighing approximately 2,500kg

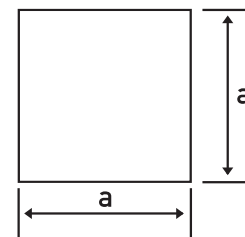
DIMENSIONS - WEIGHT - TOLERANCES:
According to EN 10059 (DIN 1014)

SQUARES

Hot-Rolled bars of square cross-section



Square bars are manufactured at SIDENOR's factory in Thessaloniki and at DOJRAN'S STEEL in Fyrom at a length of 6 metres and with a side length ranging from 10mm to 30mm. Squares are intended mostly for traditional railing makers and merchants, as well as for metal structures.



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CHEMICAL COMPOSITION & MECHANICAL PROPERTIES

STEEL GRADE	CHEMICAL COMPOSITION			MECHANICAL PROPERTIES		
	C (%) max	P (%) max	S (%) max	YIELD STRENGTH (N/mm ²) min	TENSILE STRENGTH (N/mm ²)	ELONGATION 5d ₀ , (%) min
S235JR (St 37-2)	0.170	0.040	0.040	235	360 - 510	26
S275JR (St 44-2)	0.210	0.040	0.040	275	410 - 560	23

DIMENSIONS, WEIGHTS & TOLERANCE OF SQUARES

SIDE LENGTH * a (mm)	PERMISSIBLE DEVIATION (mm)	NOMINAL CROSS-SECTION (cm ²)	NOMINAL WEIGHT (kg/m)	NOMINAL SURFACE AREA (cm ² /m)	PERMISSIBLE DIAGONAL DIFFERENCE (%)
10	± 0.4	1.00	0.79	400	4.00
12	± 0.4	1.44	1.13	480	4.00
14	± 0.4	1.96	1.54	560	4.00
16	± 0.5	2.56	2.01	640	4.00
18	± 0.5	3.24	2.54	720	4.00
20	± 0.5	4.00	3.14	800	4.00
22	± 0.5	4.84	3.80	880	4.00
25	± 0.5	6.25	4.91	1,000	4.00
30	± 0.6	9.00	7.07	1,200	4.00

* Special dimensions can be available upon request