S355J2H Hollow Section

OMEGA STEEL CO.
Istanbul · Dilovası plant

1.0576 · S355J2H is the structural grade of EN 10219 cold-formed hollow sections: 355 MPa minimum yield, 470–630 MPa tensile, 27 J Charpy at −20 °C, material number 1.0576 — the ST52 box section of the market. It is the grade for columns, trusses, crane structures, bridges and anything designed to Eurocode 3 with a real load; we roll it in 40×40 to 250×250 mm square and up to 200×300 mm rectangular, 3–10 mm wall, and stock the common structural sizes.

1.0576 | Yield ≥ 355 MPa | KV 27 J at −20 °C | 40×40 – 250×250 · to 200×300 | Wall 3–10 mm

ST52 kutu profil, S355 box section, high-tensile hollow section — the tube an engineer asks for when the calculation says 355. Same mill, same sizes as our S235JRH range, a stronger strip and a certificate with −20 °C impact values; the difference is 50 % more capacity for about 60 USD/t.

SQUARE SIZES ROLLED IN S355J2H

Size (mm)	Wall (mm)	kg/m	kg per 6 m bar	Bars per ton
15 × 15	1.5	0.64	3.84	260
15 × 15	2	0.82	4.92	203
16 × 16	1.5	0.68	4.1	244
20 × 20	1.5	0.85	5.1	196
20 × 20	1.9	1.04	6.24	160
20 × 20	2	1.09	6.54	153
20 × 20	2.5	1.37	8.22	122
25 × 25	1.5	1.07	6.42	156
25 × 25	1.9	1.32	7.92	126
25 × 25	2	1.38	8.28	121
25 × 25	2.5	1.73	10.38	96
25 × 25	3	2.05	12.3	81
30 × 30	1.5	1.26	7.56	132
30 × 30	1.9	1.56	9.36	107

First 14 of 130 rows — the full table is on the product page.

Nominal mass per EN 10219-2 with corner radii; 6 m standard length, 12 m on request.

RECTANGULAR SIZES ROLLED IN S355J2H

Size (mm)	Wall (mm)	kg/m	kg per 6 m bar	Bars per ton
10 × 20	1.5	0.64	3.84	260
10 × 20	2	0.82	4.92	203
10 × 30	1.5	0.85	5.1	196
10 × 30	1.9	1.08	6.48	154
10 × 30	2	1.09	6.54	153
10 × 30	2.5	1.37	8.24	121
10 × 40	1.5	1.11	6.64	151
10 × 40	2	1.44	8.66	115
10 × 40	2.5	1.77	10.6	94
10 × 50	1.5	1.34	8.05	124
10 × 50	2	1.76	10.55	95
15 × 25	1.5	0.85	5.1	196
15 × 25	1.9	1.08	6.48	154
15 × 25	2	1.09	6.54	153

First 14 of 306 rows — the full table is on the product page.

Nominal mass per EN 10219-2; 6 m standard length, 12 m on request.

GRADES, STANDARDS AND TOLERANCES

Grade / standard	Yield (MPa)	Note
S355J2H (EN 10219-1, 1.0576)	≥ 355	tensile 470–630 MPa, A ≥ 20 %, 27 J at −20 °C
S355J0H	≥ 355	0 °C impact, to order

Grade / standard	Yield (MPa)	Note
S355J2H hot-finished (EN 10210)	≥ 355	to order, +20 %
S235JRH	≥ 235	the standard grade — see square hollow section
ASTM A500 Gr. C	≥ 345	nearest ASTM

The H suffix means hollow section; J2 = 27 J at −20 °C. Yield is taken on the strip; the cold-formed corners are harder — EN 1993-1-3 allows an increased average yield for cold-formed sections.

STANDARDS

EN 10219-1 — S355J2H, 1.0576 (cold-formed) · EN 10210-1 — S355J2H hot-finished (option) · EN 10219-2 — tolerances · EN 10204 3.1; CE marking; EN 1090 fabrication