Steel Angle Bar

OMEGA STEEL CO.
Istanbul · Dilovası plant

Hot-rolled equal-leg and unequal-leg steel angles to EN 10056-1 (dimensions) and EN 10056-2 (tolerances) in S235JR, S275JR and S355J2, from 20×20×3 to 200×200×20 mm equal and 30×20 to 200×100 unequal, 6 and 12 m, black or hot-dip galvanized, from stock in Dilovası; cut, drilled and punched for towers, trusses, bracing, frames, racking, tank rings, guardrail posts and general fabrication.

Equal 20×20 – 200×200 | Unequal 30×20 – 200×100 | 3 – 20 mm | S235JR · S275JR · S355J2 | Black · HDG

Angle bar is the most bought long product after rebar: equal angles 20×20 to 200×200 and unequal 30×20 to 200×100, 3–20 mm thick, S235JR from stock (S275/S355 for towers and trusses), 6 and 12 m, black or galvanized. Cut, punched, drilled and bundled on our lines for transmission towers, trusses, racking, frames, tank rings and site fabrication; a 20' container carries 20 t.

EQUAL ANGLE SIZES AND WEIGHT CHART

Size (mm)	Thickness (mm)	kg/m	kg per 6 m	Bars per ton (6 m)
20 × 20	3	0.88	5.3	189
25 × 25	3	1.12	6.7	149
30 × 30	3	1.36	8.2	122
30 × 30	4	1.78	10.7	94
40 × 40	4	2.42	14.5	69
40 × 40	5	2.97	17.8	56
45 × 45	5	3.38	20.3	49
50 × 50	5	3.77	22.6	44
50 × 50	6	4.47	26.8	37
60 × 60	6	5.42	32.5	31
65 × 65	7	6.83	41.0	24
70 × 70	7	7.38	44.3	23
75 × 75	8	8.99	53.9	19
80 × 80	8	9.63	57.8	17

First 14 of 23 rows — the full table is on the product page.

UNEQUAL ANGLE SIZES AND WEIGHT CHART

Size (mm)	Thickness	kg/m	kg per 6 m
30 × 20	3	1.12	6.7
40 × 25	4	1.93	11.6
45 × 30	4	2.25	13.5
50 × 30	5	2.96	17.8
60 × 40	5	3.76	22.6
65 × 50	5	4.35	26.1
70 × 50	6	5.41	32.5
75 × 50	6	5.65	33.9
80 × 40	6	5.41	32.5
80 × 60	7	7.36	44.2
100 × 50	6	6.84	41.0
100 × 65	8	9.94	59.6
100 × 75	8	10.6	63.6
120 × 80	8	12.2	73.2

First 14 of 20 rows — the full table is on the product page.

ANGLE BAR VS HOLLOW SECTION VS FLAT BAR

	Angle 50×50×5	SHS 50×50×2.5	Flat 50×6
kg/m	3.77	3.66	2.36
Bending stiffness	Low–medium	High (both axes)	Very low
Connection	Bolt through leg, easy	Needs cleat or weld	Bolt / weld

	Angle 50×50×5	SHS 50×50×2.5	Flat 50×6
Corrosion	Open, easy to paint	Closed (seal ends)	Open
Price per ton	1.00	1.10–1.25	0.95–1.00
Use	Frames, trusses, bracing, cleats	Columns, frames, canopies	Stiffeners, straps, ladders

STANDARDS

EN 10056-1 / -2 (equal and unequal angles: dimensions, tolerances) · EN 10025-2 (S235JR, S275JR, S355J2) · ASTM A36 / A529 L-shapes (on request) · JIS G3192 · EN ISO 1461 (hot-dip galvanizing)