ST37 Steel Plate

OMEGA STEEL CO.
Istanbul · Dilovası plant

ST37 is the old DIN 17100 name for general structural steel with 235 MPa minimum yield; since 2004 the same material is rolled and certified as S235JR to EN 10025-2. We stock it as hot-rolled black plate 1.5–20 mm in 1 000–2 000 mm widths, cut to size on our own lines in Dilovası, and ship it as ST37 or S235JR — the certificate reads S235JR.

= S235JR (1.0038) | Yield ≥ 235 MPa | 1.5–20 mm stock | Cut to size | EN 10204 3.1

If your drawing still says ST37, ST37-2 or St 37-2, you are asking for the plate that the whole industry now certifies as S235JR — the same 235 MPa yield, the same 360–510 MPa tensile band, the same +20 °C impact test. Buyers in the Gulf, Iraq, the Balkans and North Africa keep using the DIN name, so we keep the page: what you get is S235JR black plate from our Dilovası stock, cut to your sizes.

CHEMICAL COMPOSITION

Element	C	Mn	P	S	N	Cu
max. % (ladle)	0.17 (≤ 40 mm)	1.40	0.035	0.035	0.012	0.55

Si is not limited; typical Erdemir / İsdemir heats run C 0.08–0.14, Mn 0.40–0.70. CEV ≤ 0.35 up to 30 mm.

MECHANICAL PROPERTIES

Thickness	Yield ReH min (MPa)	Tensile Rm (MPa)	Elongation A min	Impact KV
≤ 16 mm	235	360–510	26 % (≥ 3 mm)	27 J at +20 °C
> 16–40 mm	225	360–510	26 %	27 J at +20 °C
> 40–63 mm	215	360–510	25 %	27 J at +20 °C
1.5–3 mm sheet	235	360–510	17–19 % (A80)	—

EQUIVALENT GRADES

System	Grade	Note
EN 10025-2	S235JR (1.0038)	identical — current name
DIN 17100	ST37-2	withdrawn name
ASTM	A283 Gr. D / A36 (near)	A36 has 250 MPa yield
JIS G3101	SS400	no impact requirement
GB/T 700	Q235B	B = +20 °C impact
ISO 630	E235B	

THICKNESS RANGE AND STOCK SIZES

Thickness	Widths × lengths	Availability
1.5–3 mm	1 000 / 1 250 / 1 500 × 2 000–6 000	stock, sheet from coil
4–12 mm	1 500 / 2 000 × 6 000	stock
15–20 mm	2 000 × 6 000	stock, limited
25–100 mm	2 000–2 500 × 6 000–12 000	on order 2–4 weeks (see heavy plate)

STANDARDS

DIN 17100 (withdrawn 2004) — ST37-2 · EN 10025-2 — S235JR, material no. 1.0038 · EN 10029 thickness tolerance class A · EN 10163-2 surface class A