

CARBON STEEL PLATES

Advanced Materials. Engineered for Performance.

S355J2+N Steel Plates

Carbon Steel Plates | EN: S355J2+N / 1.0570 | ASTM: A572 Gr 50 (nearest) | JIS: SM490YB

Normalised structural plate with guaranteed 27 J impact energy at -20 C. The J2+N condition gives consistent toughness and flatness through thick sections, which is why it is specified for welded structures, crane and bridge work and heavy fabrication in the Gulf.



Stock status: Ex-stock Dubai - **Typical lead time:** 2 - 3 working days ex Dubai

Key features

- Normalised for uniform toughness through thickness
- 27 J impact energy guaranteed at -20 C
- Profile cutting, drilling and bevelling from stock
- Z15 / Z25 through-thickness and ultrasonic testing on request

Available forms & sizes

Form	Size range
Plates	5 - 200 mm thk, up to 3000 mm wide, cut to size
Sheets & Coils	2 - 12 mm thk, 1250 / 1500 / 2000 mm wide

Chemical composition (%)

Element	Min	Max
C	-	0.20
Mn	-	1.60
Si	-	0.55
P	-	0.025
S	-	0.025

Mechanical properties

Property	Value	Unit
Yield Strength	355 min (t ≤ 16 mm)	MPa
Tensile Strength	470 - 630	MPa
Elongation	22 min	%

Property	Value	Unit
Impact Energy	27 J min at -20 C	J

Physical properties

Property	Value	Unit
Density	7.85	g/cm3
Modulus of Elasticity	210	GPa

Standards

EN 10025-2, EN 10029 (thickness tolerance), EN 10204 3.1 / 3.2

Equivalent grades

1.0570, S355J2+N, A572 Gr 50, SM490YB

Industries served

Construction, General Engineering, Lifting & Cranes, Oil & Gas, Marine

Typical applications

- Welded structural steelwork and portal frames
- Crane and lifting equipment structures
- Bridge and infrastructure girders
- Tank and silo shells
- Base plates and gussets



Live datasheet