

AS/NZS 3678 - 250

XLERPLATE® steel Floorplate

DATE: AUGUST 2009

PRODUCT DESCRIPTION

- A hot-rolled structural floorplate (raised pattern on one surface)
- Produced with nominal yield strength of 250 MPa

SUPPLY CONDITIONS

- Thickness Range: 8mm – 12mm
- Availability: Plate is available in standard sizes
- Edge Condition: Untrimmed (Mill Edge)
- Tolerances: AS1365
- Surface Inspection: BlueScope Steel (third party available)
- Certification: BlueScope Steel (third party endorsed available)

FEATURES & BENEFITS

- Guaranteed minimum strength levels
- Excellent weldability
- Excellent formability

WARNINGS

- This material should be used in conjunction with the appropriate structural design and welding standards.
- Customers to make their own assessment of the suitability of this product in the end use application.
- No measurement of frictional characteristics has been undertaken by BlueScope Steel and no warranty in relation to anti-slip applications can be offered.
- An untrimmed (Mill) edge may contain minor surface discontinuities as a result of the rolling process (refer Clause 7 AS/NZS 3678). It is recommended that a minimum of 50mm be removed from each untrimmed edge.

NEAREST OVERSEAS SPECIFICATIONS*

ASTM A36 ISO 630-E275B JISG 3101-SS400 JISG 3106-SM400A EN 10025-2-S235JQ

* Note: Pattern type and dimensions may vary amongst standards

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CHEMICAL COMPOSITION		
Element	Guaranteed Maximum % ⁽²⁾	Typical %
		8 ≤ t ≤ 12
Carbon	0.22	0.14
Silicon	0.55	0.20
Manganese	1.70	1.10
Phosphorus	0.040	0.020
Sulfur	0.030	0.010
Aluminium	0.100	0.025
Titanium	0.040	0.018
CEQ (IIW) ⁽¹⁾	0.44	0.32

$$(1) \text{ CEQ (IIW)} = C + \frac{\text{Mn}}{6} + \left(\frac{\text{Cr} + \text{Mo} + \text{V}}{5} \right) + \left(\frac{\text{Cu} + \text{Ni}}{15} \right)$$

(2) All values shown refer to the relevant Australian Standard unless stated otherwise

MECHANICAL PROPERTIES			
Tensile Properties (Transverse)		Thickness Range (mm)	
		t = 8	8 < t ≤ 12
Guaranteed Min.	Yield Strength (MPa)	280	260
	Tensile Strength (MPa)	410	410
	Elong. on 5.65 √ So (%)	n/a	n/a
Typical	Yield Strength (MPa)	310 - 380	290 - 380
	Tensile Strength (MPa)	420 - 500	440 - 530
	Elong. on 5.65 √ So (%)	23 - 36	26 - 40

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WELDABILITY		
	Guaranteed Maximum	8 ≤ t ≤ 20
Group 4 ⁽³⁾	4	2

(3) Refer to WTIA Technical Note 1 or AS/NZS 1554.1

FORMABILITY (recommended min. inside radii)		
8 ≤ t ≤ 20	Long 3.0T	Trans 2.0T
	Raised pattern inside	

FOR MASS PER SQUARE METRE	
Thickness (mm)	(kg/m ²)
8	64.80
10	80.50
12	96.20

