

AS/NZS 1594 - HA250

XLERPLATE LITE™ steel Floorplate

DATE: AUGUST 2009

PRODUCT DESCRIPTION

- A hot-rolled structural floorplate (raised pattern on one surface)
- Product with a minimum yield strength of 250 MPa and good weldability

SUPPLY CONDITIONS

- Thickness Range: 2.1mm – 8mm (not all thickness and width combinations are available)
- Cyclic Production
- Surface finish: Floorplate
- Edge Condition: Untrimmed (Mill Edge)
- Tolerances: AS1365
- Certification: BlueScope Steel - Analysis and Mechanical tests

FEATURES & BENEFITS

- Guaranteed minimum strength levels
- Excellent weldability
- Good formability
- Excellent for galvanising applications

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. It is recommended that customers satisfy themselves that the edge is suitable for the application.

NEAREST OVERSEAS SPECIFICATIONS

ASTM A36 JISG 3101-SS400 RN 10025-2-S235JR

Note: Pattern type and dimensions may vary amongst standards

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CHEMICAL COMPOSITION			
Element	Guaranteed Maximum % ⁽²⁾	Typical % / Thickness (mm)	
		t ≤ 3	t > 3
Carbon	0.20	0.10	0.15
Silicon	0.030 ⁽³⁾	0.01	0.01
Manganese	1.20	0.45	0.75
Phosphorus	0.040	0.015	0.020
Sulfur	0.030	0.010	0.010
Aluminium	0.10	0.030	0.030
CEQ (IIW) ⁽¹⁾	0.39	0.19	0.28

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

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

(3) Values shown refer to the BlueScope Steel internal standard, where the AS/NZS 1594 guaranteed maximum % is 0.35

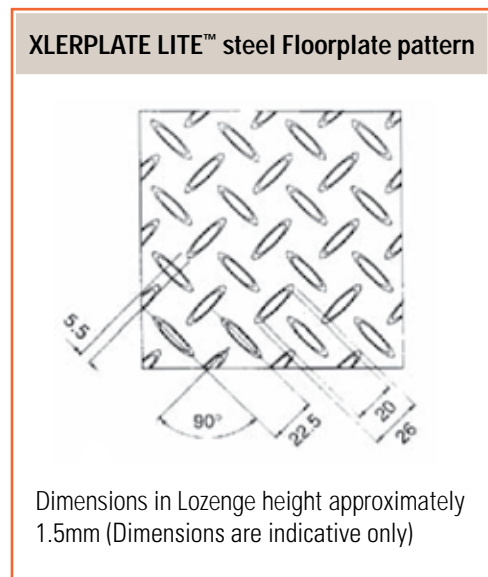
MECHANICAL PROPERTIES		
Tensile Properties (Longitudinal)	Guaranteed Minimum	Typical
Yield Strength (MPa)	250	270 - 380
Tensile Strength (MPa)	350	400 - 500
Elong. on 200mm GL (%)	-	18 - 27

DIMENSIONS	
Standard Sections: Width (mm) x Thickness (mm)	
1200 x 2.1	1500 x 5
1200 x 3	1500 x 6
1200 x 5	1500 x 8
1200 x 6	
1200 x 8	

FABRICATING PERFORMANCE	
Bending	Good ⁽⁴⁾
Welding	WTIA Group3 ⁽⁵⁾
Galvanising	Excellent

(4) Raised Pattern Inside

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



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