

ASNZS 1594 - HA300

XLERPLATE LITE™ steel

DATE: AUGUST 2009

PRODUCT DESCRIPTION

- Hot-rolled structural product with minimum yield strength of 300 MPa, good ductility and good weldability

SUPPLY CONDITIONS

- Thickness Range: 1.6mm – 8mm (not all thickness and width combinations are available). Other thicknesses may be available on enquiry.
- Surface finish: Hot-rolled
- Edge Condition: Untrimmed (Mill Edge) / Trimmed ⁽¹⁾
- Tolerances: AS1365
- Flatness: Class A
- Certification: BlueScope Steel - Analysis and Mechanical tests

(1) Optional supply condition. May be subject to size range restrictions.

TYPICAL USES

- Structural members
- Light Poles
- Brake press forming applications
- General fabrication
- Trailer and automotive components

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 design and welding standards.
- 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 A 36 JISG 3101-SS400 EN 10025-S275JR

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CHEMICAL COMPOSITION			
Element	Guaranteed Maximum % ⁽³⁾	Typical %	
		3 - 5.79mm	5.8mm
Carbon	0.20	0.15	0.15
Silicon	0.03 ⁽⁴⁾	0.01	0.01
Manganese	1.60	0.75	1.00
Phosphorus	0.040	0.015	0.015
Sulfur	0.030	0.010	0.010
Aluminium	0.10	0.030	0.030
CEQ (IIW) ⁽²⁾	0.39	0.28	0.32

$$(2) \text{ CEQ (IIW)} = \text{C} + \frac{\text{Mn}}{6} + \frac{(\text{Cr} + \text{Mo} + \text{V})}{5} + \frac{(\text{Cu} + \text{Ni})}{15}$$

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

(4) 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)	300	320 - 390
Tensile Strength (MPa)	400	420 - 500
Elong. (%)		
3mm (on 80mm GL)	15	24 - 32
> 3mm (on 200mm GL)	16	22 - 30
180° Bend (Transverse)		
3mm	1t	1t
> 3mm	2t	1t

DIMENSIONS		
Width Range ⁽⁵⁾ (mm)	Thickness Range ⁽⁵⁾ (mm)	Length Range ⁽⁵⁾ (mm)
910 - 1800	1.6 - 8.0	1200mm - 9000mm

(5) Not all thickness and width combinations are available

FABRICATING PERFORMANCE	
Bending	Good
Roll forming	Good
Galvanising	Excellent
Welding	WTIA Group 4 ⁽⁶⁾

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

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