

## AS/NZS 1594 - HA350

### XLERPLATE LITE™ steel

DATE: AUGUST 2009

#### PRODUCT DESCRIPTION

- Hot-rolled structural product with minimum yield strength of 350 MPa, good ductility and good weldability

#### SUPPLY CONDITIONS

- Thickness Range: 1.3mm – 8mm (not all thickness and width combinations are available). Other thicknesses may be available by enquiry.
- Surface finish: Hot-rolled
- Edge Condition: Untrimmed (Mill Edge) / Trimmed <sup>(1)</sup>
- 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
- Roll forming applications
- Brake press forming applications
- Galvanising applications

#### 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 572 Grade 50

#### For more information contact:

##### BlueScope Steel Direct

Phone: 1800 800 789

Email: [steeldirect@bluescopesteel.com](mailto:steeldirect@bluescopesteel.com)

Website: [www.xlerplate.com.au](http://www.xlerplate.com.au)

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CHEMICAL COMPOSITION			
Element	Guaranteed Maximum % <sup>(3)</sup>	Typical %	
		≥ 3 - 5.5	> 5.5 - 8
Carbon	0.20	0.09	0.08
Silicon	0.030 <sup>(4)</sup>	0.01	0.01
Manganese	1.60	0.55	1.30
Phosphorus	0.040	0.015	0.015
Sulfur	0.030	0.010	0.010
Aluminium	0.10	0.030	0.030
Micro Alloy (Niobium)	0.15	0.030	0.018
CEQ (IIW) <sup>(2)</sup>	0.44	0.19	—

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

(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)	350	400 - 480
Tensile Strength (MPa)	430	480 - 560
Elong. (%)		
> 3mm (on 200mm GL)	15	19 - 26
180° Bend (Transverse)		
5mm	2t	1t
> 5mm	3t	1t

DIMENSIONS		
Width Range <sup>(5)</sup> (mm)	Thickness Range <sup>(5)</sup> (mm)	Length Range <sup>(5)</sup> (mm)
1200 and 1500mm only	3 - 8	1200mm - 9000mm

(5) Not all thickness and width combinations are available

FABRICATING PERFORMANCE	
Bending	Good
Roll forming	Good
Galvanising	Excellent
Welding	WTIA Group 4 <sup>(6)</sup>

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

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