

AS/NZS 1594 - HA200

XLERPLATE LITE™ steel

DATE: AUGUST 2009

PRODUCT DESCRIPTION

- Hot-rolled structural product with minimum yield strength of 200 MPa, good ductility and good weldability

SUPPLY CONDITIONS

- Thickness Range: 1.6mm – 12mm (not all thickness and width combinations are available)
- 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
- Roll forming applications
- Brake press forming applications
- General fabrication
- Galvanising applications

FEATURES & BENEFITS

- Guaranteed minimum strength levels
- Excellent weldability
- Excellent 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 1011 SS Grade 30 JISG 3101-SS330

For more information contact:

BlueScope Steel Direct

Phone: 1800 800 789

Email: steeldirect@bluescopesteel.com

Website: www.xlerplate.com.au

Date Published: August 2009. The information contained in this datasheet is provided by way of general information only, and should not be relied upon by any person. You must seek specific advice as to the suitability of this product for the purpose for which, and the manner in which, you propose to use it. This may involve further independent analysis and testing. BlueScope Steel Limited and its related bodies corporate take no responsibility for any adverse consequences of any nature which arise as a result of reliance on this datasheet. These datasheets will be updated from time to time and the most up-to-date versions are available from www.xlerplate.com.au

XLERPLATE® is a registered trade mark of BlueScope Steel. XLERPLATE LITE™ is a trade mark of BlueScope steel.
BlueScope is a trade mark of BlueScope Steel Limited ABN 16 000 011 058.



AS/NZS 1594 - HA200

XLERPLATE LITE™ steel

CHEMICAL COMPOSITION		
Element	Guaranteed Maximum % ⁽³⁾	Typical %
Carbon	0.15	0.055
Silicon	0.030 ⁽⁴⁾	0.010
Manganese	0.60	0.21
Phosphorus	0.030	0.015
Sulfur	0.030	0.010
Aluminium	0.10	0.035
CEQ (IIW) ⁽²⁾	0.29	0.095

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

(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)	200	220 - 290
Tensile Strength (MPa)	300	330 - 390
Elong. (%)		
3mm (on 80mm GL)	22	30 - 38
> 3mm (on 200mm GL)	19	30 - 38
180° Bend (Transverse)		
3mm	0t	0t
> 3mm	1t	0t

DIMENSIONS		
Width Range ⁽⁵⁾ (mm)	Thickness Range ⁽⁵⁾ (mm)	Length Range ⁽⁵⁾ (mm)
910 - 1800	1.6 - 12	1200mm - 9600mm

(5) Not all thickness and width combinations are available

FABRICATING PERFORMANCE	
Bending	Excellent
Roll forming	Excellent
Galvanising	Excellent
Welding	WTIA Group 1 ⁽⁶⁾

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

Date Published: August 2009. The information contained in this datasheet is provided by way of general information only, and should not be relied upon by any person. You must seek specific advice as to the suitability of this product for the purpose for which, and the manner in which, you propose to use it. This may involve further independent analysis and testing. BlueScope Steel Limited and its related bodies corporate take no responsibility for any adverse consequences of any nature which arise as a result of reliance on this datasheet. These datasheets will be updated from time to time and the most up-to-date versions are available from www.xlerplate.com.au

XLERPLATE® is a registered trade mark of BlueScope Steel. XLERPLATE LITE™ is a trade mark of BlueScope steel. BlueScope is a trade mark of BlueScope Steel Limited ABN 16 000 011 058.

