

# AS/NZS 1594 - HU300

## XLERCOIL®

**DATE:** September 2002

### PRODUCT DESCRIPTION

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

### SUPPLY CONDITIONS

- Surface finish: Hot-rolled / Skin passed\*
- Edge Condition: Mill Edge / Trimmed\*
- Tolerances: AS1365
- Flatness: Class A
- Certificate: BlueScope Steel - Analysis and Mechanical tests

\*Optional supply condition. May be subject to size range restrictions

### TYPICAL USES

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

### FEATURES & BENEFITS

- Guaranteed minimum strength levels
- Excellent weldability
- Good formability

### WARNINGS

- This material should be used in conjunction with the appropriate structural design and welding standards.
- A 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.
- Where material is required for galvanising it is recommended that the steel has a maximum of 0.03% silicon.

### NEAREST OVERSEAS SPECIFICATIONS

ASTM A 1011 SS Grade 40    JIS G 3101 SS400    EN10 025 S275JR

#### For more information contact BlueScope Steel Direct:

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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.

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CHEMICAL COMPOSITION		
Element	Guaranteed Maximum %	Typical %
Carbon	0.20	0.15
Silicon	0.35	0.01
Manganese	1.60	0.75
Phosphorus	0.040	0.015
Sulfur	0.030	0.010
Aluminium	0.10	0.030
CEQ(IIW)**	0.39	0.28

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

MECHANICAL PROPERTIES		
Tensile Properties (Longitudinal)	Guaranteed Min.	Typical
Yield Strength (MPa)	300	320 - 390
Tensile Strength (MPa)	400	420 - 500
Elong. (%)		
≤3mm (on 80mm GL)	15	24 - 32
>3mm (on 200 mm GL)	16	22 - 30
180° Bend (Transverse)		
3mm	1t	1t
>3mm	2t	1t

DIMENSIONS
<b>Preferred Widths (mm):</b> 910 - 1800 (increments of 10mm)
<b>Preferred Thicknesses (mm):</b> 3.3 - 6.5 (increments of 0.1 mm)
Thicknesses less than 3.3 mm are available from BlueScope Steel

FABRICATING PERFORMANCE	
Bending	Good
Roll-forming	Good
Welding	WTIA <a href="#">Group 3</a> ***

\*\*\* Refer to WTIA Technical Note 1 or AS/NZS 1554.1



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