

## AS/NZS 1594 - HXA1016

XLERCOIL®

**DATE:** May 2005

### PRODUCT DESCRIPTION

- Hot rolled strip with guaranteed chemical composition for general applications

### SUPPLY CONDITIONS

- Thickness Range: 3.3mm – 12mm (Not all thickness and width combinations are available)
- Surface finish: Hot-rolled / Skin passed <sup>(1)</sup>
- Edge Condition: Untrimmed (Mill Edge) / Trimmed <sup>(1)</sup>
- Tolerances: AS1365
- Certificate: BlueScope Steel - Analysis only

<sup>(1)</sup> Optional supply condition. May be subject to size range restrictions.

### TYPICAL USES

- Pipe to AS1579
- Tubing
- Water heaters
- General manufacturing

### FEATURES & BENEFITS

- Excellent galvanising performance (low silicon and phosphorus content)
- Higher strength compared with normal soft forming steels such as HA1, A1006
- Fine grained low-medium carbon steels with good combination of strength, formability, toughness and weldability
- Consistent properties and chemistry with typical mechanical properties as per AS1594-HA300 (note mechanical properties are not certified and final product properties are also dependent on customer's processing - for guaranteed mechanical properties order AS1594 - HA300)

### WARNINGS

- This material should be used in conjunction with the appropriate structural 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.

### For more information contact BlueScope Steel Direct:

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CHEMICAL COMPOSITION		
Element	Guaranteed Maximum % <sup>(3)</sup>	Typical %
Carbon	0.12 - 0.18	0.15
Silicon	0.03	0.01
Manganese	0.80 - 1.20	1.00
Phosphorus	0.04	0.015
Sulfur	0.030	0.010
Aluminium	0.10	0.035
CEQ (IIW) <sup>(2)</sup>	0.39	0.33

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

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

MECHANICAL PROPERTIES		
Tensile Properties (Longitudinal)	Guaranteed Minimum	Typical
Yield Strength (MPa)	-	320 - 380
Tensile Strength (MPa)	-	440 - 520
Elong. on 200mm (%)	-	22 - 31

DIMENSIONS	
Width Range <sup>(4)</sup> (mm):	Thickness Range <sup>(4)(5)</sup> (mm):
910 - 1800	3.3 - 12

(4) Not all thickness and width combinations are available.

FABRICATING PERFORMANCE	
Bending	Good
Roll Forming	Good
Galvanising	Excellent
Welding	WTIA Group 3 <sup>(6)</sup>

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