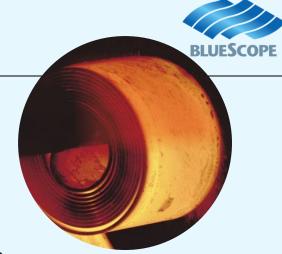
Uncoated steel

Datasheet

April 2019. This literature supersedes all previous issues



Hot rolled strip AS/NZS 1594 – HU300

General description

 Hot-rolled silicon/aluminium killed structural steel with a minimum yield strength of 300 MPa, good ductility and good weldability

Typical uses

- Structural members
- Roll forming applications
- Brake press forming applications
- General fabrications

Features & benefits

- Excellent weldability
- Good formability
- Reactive steel for heavy coating mass galvanizing

Warnings

- This material should be used in conjunction with the appropriate design and welding standards.
- An untrimmed edge (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.
- This steel will produce thicker coatings in galvanizing that will be duller and more brittle than Al-killed steels

Australian and International Standards

AS/NZS 1594: 2002 AS/NZS 1365: 1996

ISO9001: 2016 Quality System Certified

Supply conditions

	Normal	Optional
Thickness Range	7 – 12.7 mm *	-
Width Range	1150 – 1250 mm *	-
Surface Finish	Hot Rolled	Pickled & Oiled (1.6 to 6mm only)
Edge Condition	Untrimmed (Mill Edge)	Trimmed
Tolerance	AS/NZS 1365: 1996	-
Certification	BlueScope	-

^{*} Not all thickness & width combinations are available

Optional supply conditions are subject to dimensional restrictions

Chemical composition

Element	Guaranteed maximum %
Carbon	0.20
Silicon	0.35
Manganese	1.60
Phosphorus	0.040
Sulfur	0.030
Aluminium	0.10
CEQ (IIW)	0.39

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

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

Mechanical properties

Tensile Properties (Longitudinal)		Guaranteed value
Yield Strength (MPa)	Guaranteed Minimum	300
Tensile Strength (MPa)	Guaranteed Minimum	400
Elongation 80 mm (%)	Guaranteed Minimum	18% (<=3mm), 22% (>3mm)
180° Bend (transverse)	Guaranteed Minimum	1t <=3mm, 2t >3mm

t = thickness of test piece

Weldability Group

WTIA Group	
3	

Refer to WTIA Technical Note 1 or AS/NZS 1554.1:2014

steel.com.au

To ensure you have the most current Data Sheet

1800 024 402

<u>steeldirect@bluescopesteel.com</u>
For more information contact Steel Direct





The information contained in this datasheet is provided by way of general information about this product only, and has not been prepared with your specific needs in mind. We recommend that you seek BlueScope's advice as to the suitability of this product for the purpose(s) for which you propose to use it. To contact BlueScope for advice about your proposed use of this product, please contact Steel Direct. BlueScope and the BlueScope brand mark are registered trade marks of BlueScope Steel Limited. © 2019 BlueScope Steel Limited ABN 16 000 011 058. All rights reserved.