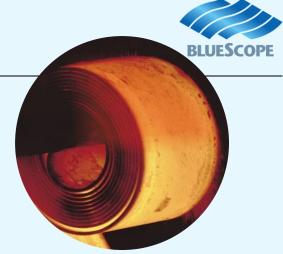
# **Uncoated steel**

# **Datasheet**

April 2019. This literature supersedes all previous issues



# Hot rolled strip AS/NZS 1594 – HA350

#### **General description**

 Hot-rolled structural steel with a minimum yield strength of 350 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
- Excellent for galvanizing applications

#### 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.

#### Australian and International standards

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

ISO9001: 2016 Quality System Certified

## **Supply conditions**

	Normal	Optional
Thickness Range	1.6 – 12.7 mm *	-
Width Range	1200 & 1500mm. Other sizes may be available by enquiry	-
Surface Finish	Hot Rolled	Pickled & Oiled (1.6 to 3mm only)
Edge Condition	Untrimmed (Mill Edge)	Trimmed
Tolerance	AS/NZS 1365: 1996	-
Certification	BlueScope	-

<sup>\*</sup> Not all thickness & width combinations are available
Optional supply conditions are subject to dimensional restrictions

### **Chemical composition**

Element	Guaranteed maximum %
Carbon	0.20
Silicon	0.03*
Manganese	1.60
Phosphorus	0.040
Sulphur	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	350
Tensile Strength (MPa)	Guaranteed Minimum	430
Elongation 80 mm (%)	Guaranteed Minimum	16% (<=3mm), 20% (>3mm)
180° Bend (transverse)	Guaranteed Minimum	2t <=5mm, 3t >5mm

t = thickness of test piece

# **Weldability Group**

WTIA Group
4

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

steeldirect@bluescopesteel.com
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.

<sup>\*</sup> Value refers to the BlueScope internal standard, whereas the AS/NZS 1594 guaranteed maximum is 0.35%