

# 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  
Press brake forming applications  
General fabrications

### Features & benefits

Good weldability  
Good formability  
Excellent for galvanising 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.

Free from coil break for 3 months after production.

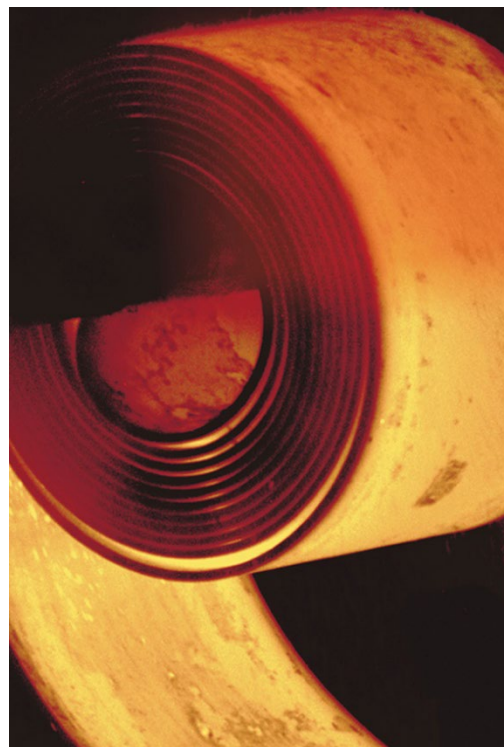
Material should be stored under cover to avoid issues with storage related corrosion.

### Australian and International Standards

AS/NZS 1594:2002 (R2016)

AS/NZS 1365:1996 (R2016)

ISO 9001:2015 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 (R2016)	-
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	0.03*
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

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

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

## 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

# Galvanised Coating Characteristics Related to Steel Composition

## Category

A

Refer to Table 9.1 of AS/NZS 2312.2:2014

Where aesthetics are important or where particular coating thickness, surface smoothness or resistance to handling damage criteria exist, specialist advice on steel selection should be sought prior to fabrication of the article or hot dip galvanising.

## Weldability Group

### WTIA Group

4

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

## Fire hazard properties

NCC 2022	Deemed
NCC 2022 Vol 1, Part C2, C2D10, (5)(b)	Non-combustible

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