

# Hot rolled strip

## AS/NZS 1594 – HA1

### General description

Hot rolled commercial forming product suitable for simple forming welding and bending operations.

### Typical uses

Shelving

Brackets

Furniture

### Features & benefits

Excellent weldability

Good formability

Excellent for galvanising applications

### Warnings

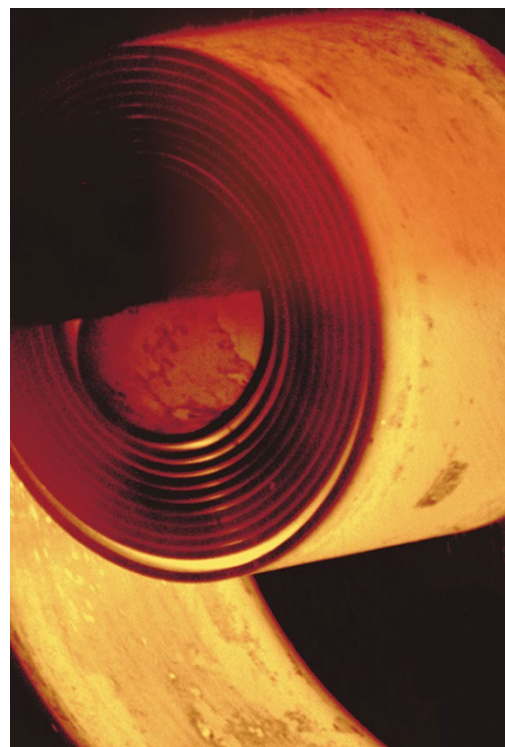
This material should be used in conjunction with the appropriate design and welding standards.

The surface of hot rolled grades may exhibit surface blemishes that while complying to AS/NZS 1594 may be visible through some surface coatings. For applications where surface finish is critical, AS/NZ 1595 cold rolled grades should be considered.

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	1.5 – 12.7 mm *	-
Width Range	750 – 1550 mm *	-
Surface Finish	Hot Rolled	Pickled & Oiled (1.6 to 6mm 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	0.13
Silicon	0.03
Manganese	0.50
Phosphorus	0.040
Sulfur	0.030
Aluminium	0.10
CEQ (IIW)	- (0.095% typical)
Carbon	0.13

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 not guaranteed.

Tensile Properties (Longitudinal)		Guaranteed Minimum
Yield Strength (MPa)	Guaranteed Minimum	-
Tensile Strength (MPa)	Guaranteed Minimum	-
Elongation 200 mm (%)	Guaranteed Minimum	-
180° Bend (transverse)	Guaranteed Minimum	1t

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

1

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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