



# Hot rolled strip

## AS/NZS 1594 – XF400

### General description

- Hot-rolled extra formable structural steel for severe forming and bending with a guaranteed minimum yield strength of 380 MPa.

### Typical uses

- Automotive components
- Roll forming applications
- Brake press forming applications
- General fabrications

### Features & benefits

- Excellent weldability
- Excellent formability for its strength
- 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: 2015 Quality System Certified

### Supply conditions

	Normal	Optional
Thickness Range	1.6 – 6mm *	-
Width Range	Sizes and MOQ available by enquiry	-
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	0.11
Silicon	0.03*
Manganese	1.60
Phosphorus	0.025
Sulphur	0.010
Aluminium	0.10
Niobium + Vanadium + Titanium	0.15
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	380
Tensile Strength (MPa)	Guaranteed Minimum	460
Elongation 80 mm (%)	Guaranteed Minimum	23%
180° Bend (transverse)	Guaranteed Minimum	0t

t = thickness of test piece

## Weldability Group

WTIA Group
3

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

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