

Hot rolled strip

AS/NZS 1594 – HA300

General description

Hot rolled structural steel with a minimum yield strength of 300 MPa, good ductility and excellent weldability.

Typical uses

Structural members
Roll forming applications
Press brake forming applications
General fabrications

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.

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 | 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 | 0.20 |
| 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 | 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

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

Fire hazard properties

| Test & Evaluation Method | Result |
|--|--|
| Combustibility test for materials (AS 1530.1-1994 (R2016)) | Not deemed combustible (steel substrate) # |

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

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To ensure you have the most current information

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