



Hot rolled strip AS/NZS 1594 – HU300

General description

- Hot-rolled silicon/aluminium killed structural steel with a minimum yield strength of 300 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
- Reactive steel for heavy coating mass galvanizing

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.
- This steel will produce thicker coatings in galvanizing that will be duller and more brittle than Al-killed steels

Australian and International Standards

AS/NZS 1594: 2002

AS/NZS 1365: 1996

ISO9001: 2016 Quality System Certified

Supply conditions

| | Normal | Optional |
|-----------------|-----------------------|-----------------------------------|
| Thickness Range | 7 – 12.7 mm * | - |
| Width Range | 1150 – 1250 mm * | - |
| 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 | 0.20 |
| Silicon | 0.35 |
| 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

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

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 |
|------------|
| 3 |

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

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