

TRU-SPEC®

coil plate steel

AS/NZS 1594 – HA200

General description

Hot rolled structural product with a minimum yield strength of 200 MPa, good ductility and excellent weldability. Stretch-levellled to remove internal stresses and for excellent flatness.

Typical uses

Structural members
Roll forming applications
Press brake forming applications
General fabrications
Galvanising applications

Features & benefits

Guaranteed minimum strength levels
Excellent weldability
Good formability

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 | 3.0 – 12 mm * | - |
| Width Range | 750 – 1550 mm * | - |
| Length Range | 1200 – 12000 mm * | - |
| Surface Finish | Hot Rolled | - |
| Edge Condition | Untrimmed (Mill Edge) | Trimmed |
| Tolerance | AS/NZS 1365:1996 (R2016) | - |
| Flatness | Class A | - |
| Certification | BlueScope – Analysis and Mechanical tests | - |

* Not all thickness, width & length combinations are available
Optional supply conditions are subject to dimensional restrictions

Chemical composition

| Element | Guaranteed Maximum % |
|------------|----------------------|
| Carbon | 0.15 |
| Silicon | 0.030* |
| Manganese | 0.60 |
| Phosphorus | 0.030 |
| Sulfur | 0.030 |
| Aluminium | 0.10 |
| CEQ (IIW) | 0.29 |

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 1594:2002 (R2016) guaranteed maximum is 0.35%

Mechanical properties

| Tensile Properties (Longitudinal) | | Guaranteed Value |
|-----------------------------------|--------------------|------------------------|
| Yield Strength (MPa) | Guaranteed Minimum | 200 |
| Tensile Strength (MPa) | Guaranteed Minimum | 300 |
| Elongation 80 mm (%) | Guaranteed Minimum | 22% (≤3mm), 26% (>3mm) |
| 180° Bend (transverse) | Guaranteed Minimum | 0t (≤3mm), 1t (>3mm) |

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

| 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.

steel.com.au

To ensure you have the most current information

1800 024 402

steeldirect@bluescopesteel.com
For more information contact Steel Direct



The information contained in this datasheet is provided by way of general information about this product only, and has not been prepared with your specific needs in mind. We recommend that you seek BlueScope's advice as to the suitability of this product for the purpose(s) for which you propose to use it. To contact BlueScope for advice about your proposed use of this product, please contact Steel Direct. TRU-SPEC®, TRUSPEC®, BlueScope and the BlueScope brand mark are registered trade marks of BlueScope Steel Limited. © 2024 BlueScope Steel Limited ABN 16 000 011 058. All rights reserved