

# TRU-SPEC®

## coil plate steel

### AS/NZS 1594 – HA1

#### General description

Hot rolled commercial forming product suitable for simple forming, welding and bending operations. Stretch-levellled to remove internal stresses and for excellent flatness.

#### Typical uses

- Light structural members (e.g. purlins)
- Rollforming applications
- Press brake forming applications
- General fabrication
- Galvanising applications

#### Features & benefits

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

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

## Chemical composition

| Element    | Guaranteed Maximum %  |
|------------|-----------------------|
| Carbon     | 0.13                  |
| Silicon    | 0.030*                |
| Manganese  | 0.50                  |
| Phosphorus | 0.040                 |
| Sulfur     | 0.030                 |
| Aluminium  | 0.10                  |
| CEQ (IIW)  | -<br>(0.095% typical) |

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 not guaranteed.

| Tensile Properties (Longitudinal) |                    | Guaranteed Value |
|-----------------------------------|--------------------|------------------|
| 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

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### 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

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### WTIA Group

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

## Fire hazard properties

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| 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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