



# TRU-SPEC® coil plate steel AS/NZS 1594 – HA350

## General description

- Hot-rolled structural steel with a minimum yield strength of 350 MPa, good ductility and good weldability

## Typical uses

- Structural members
- Roll forming applications
- Brake press forming applications
- Galvanising applications

## Features & benefits

- Guaranteed minimum strength levels
- 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.

## Australian and International standards

- AS/NZS 1594:2002 (R2016)
- AS/NZS 1365:1996 (R2016)
- ISO 9001:2016 Quality System Certified

## Supply conditions

|                 | Normal                                    | Optional |
|-----------------|---|----------|
| Thickness Range | 3.0 – 12.7 mm *                           | -        |
| Width Range     | 910 – 1550 mm *                           | -        |
| Length Range    | 1200 – 9000 mm *                          | -        |
| Surface Finish  | Hot Rolled                                | -        |
| Edge Condition  | Untrimmed (Mill Edge)                     | Trimmed  |
| Tolerance       | AS/NZS 1365:1996 (R2016)                  | -        |
| 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                   | 0.20                 |
| Silicon                  | 0.030*               |
| Manganese                | 1.60                 |
| Phosphorus               | 0.040                |
| Sulfur                   | 0.030                |
| Aluminium                | 0.10                 |
| Micro Alloy (Niobium) ** | 0.15                 |
| CEQ (IIW)                | 0.44                 |

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%

\*\* Niobium + Vanadium + Titanium = 0.15% Max

## Mechanical properties

| Tensile Properties (Longitudinal) |                    | Guaranteed value       |
|-----------------------------------|--------------------|------------------------|
| Yield Strength (MPa)              | Guaranteed Minimum | 350                    |
| Tensile Strength (MPa)            | Guaranteed Minimum | 430                    |
| Elongation 80 mm (%)              | Guaranteed Minimum | 16% (≤3mm), 20% (>3mm) |
| 180° Bend (transverse)            | Guaranteed Minimum | 2t ≤5mm, 3t >5mm       |

t = thickness of test piece

## Weldability Group

| WTIA Group |
|------------|
| 4          |

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

[steel.com.au](http://steel.com.au)

To ensure you have the most current Data Sheet

1800 024 402

[steeldirect@bluescopesteel.com](mailto: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.

© 2020 BlueScope Steel Limited ABN 16 000 011 058. All rights reserved.