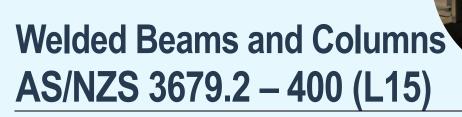
Uncoated steel

Datasheet

April 2020. This literature supersedes all previous issues





 Welded Beams and Columns are manufactured in accordance with AS/NZS 3679.2:2016, from plate manufactured to AS/NZS 3678:2016 with a nominal yield strength of 400MPa. 400L15 has a guaranteed impact performance at -15°C.

Typical uses

 Heavier end of the engineering construction, buildings, mining infrastructure and transport market in applications such as office buildings, shopping centres, stadiums, car parks and bridges.

Features & benefits

- Consistent, uniform deep penetration fillet weld profile
- Guaranteed minimum strength levels
- Low temperature properties (if specified)
- ACRS accreditation (ACRS Certificate No. 120802)
- ATIC10 accreditation

Warnings

- This material should be used in conjunction with the appropriate structural design and welding standards.
- Maximum recommended temperature for hot forming is 620°C. If heated above 620°C, mechanical properties may deteriorate.

Australian and International Standards

AS/NZS 3678:2016 AS/NZS 1365:1996 (R2016) AS/NZS 3679.2:2016 ISO 9001:2015 Quality System Certified

Supply conditions

| | Normal | Optional | |
|-----------------------|--------------------------|----------------------|--|
| Plate Thickness Range | 10 – 40 mm | - | |
| Plate Tolerances | AS/NZS 1365:1996 (R2016) | - | |
| Beam Tolerances | AS/NZS 3679.2:2016 | - | |
| Ultrasonic Inspection | - | AS 1710-2007 (R2017) | |
| Surface Inspection | BlueScope | - | |
| Certification | BlueScope | - | |

Tensile test requirements for welded web-to-flange test

| Grade to AS/NZS 3678:2016 | Specified Minimum Tensile Strength (MPa) | Nominal Thickness of Web (mm) | Minimum test load per unit flange/web length (kN/mm) |
|---------------------------|---|-------------------------------|--|
| 400 | 480 | 10 | 4.80 |
| | | 12 | 5.76 |
| | | ≥ 16 | 7.68 |

Charpy impact properties

| Charpy Impact Properties | Longitudinal on | Test Temperature (°C) | Absorbed Energy (joules) | |
|--------------------------|-----------------------|-----------------------|--------------------------|------------|
| | 10 X 10 mm test piece | | Avg. of 3 | Individual |
| Guaranteed Min | 400L15 | -15 | 27 | 20 |

Fire hazard properties

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

steel.com.au

To ensure you have the most current Data Sheet

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. 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