



Welded Beams and Columns AS/NZS 3679.2 – 400 (L15)

General description

- 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 10 X 10 mm test piece	Test Temperature (°C)	Absorbed Energy (joules)	
			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

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For more information contact Steel Direct



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