

XTRAFORM[®] steel 500

General description

Hot-rolled extra formable structural steel suitable for improved forming and bending with a guaranteed minimum yield strength of 480MPa.

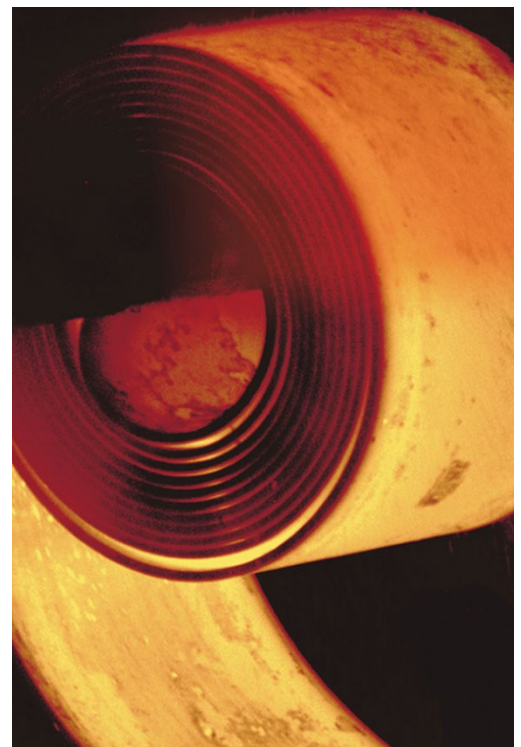
Typical uses

Mining ground support components
Automotive components

Australian and International Standards

AS/NZS 1594:2002 (R2016)
AS/NZS 1365:1996 (R2016)
ISO 9001:2015 Quality System Certified

Normal / optional supply conditions



	Normal	Optional
Thickness Range	2.49mm – 6mm	-
Width Range	Sizes and MOQ available by enquiry	-
Surface Finish	Hot Rolled	Pickled and Oiled Pickled not Oiled
Edge Condition	Untrimmed (Mill Edge)	Trimmed
Tolerances	AS/NZS 1365:1996 (R2016)	-
Certification	BlueScope	-

Optional supply conditions may be subject to dimensional restrictions
Not all combinations of width and thickness are available

Chemical composition

Element	Guaranteed Maximum %
Carbon	0.11
Silicon	0.35
Manganese	1.80
Phosphorus	0.025
Sulfur	0.010
Aluminium	0.100
CEQ (IIW)	0.44

All values shown refer to the relevant Australian Standard unless otherwise stated

$$CEQ(IIW) = C + \frac{Mn}{6} + \frac{(Cr + Mo + V)}{5} + \frac{(Cu + Ni)}{15}$$

** Niobium + Vanadium + Titanium \leq 0.15%

Mechanical properties

Tensile Properties (Longitudinal)	Guaranteed Minimum
Yield Strength (MPa)	480
Tensile Strength (MPa)	570
Elongation (%) on 200mm	14
180° Bend (Transverse)	0t

Weldability Group

WTIA Group

4

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

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For more information contact Steel Direct



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