



XLERPLATE® steel

AS/NZS 3678 – K1042

General description

A heat treatable grade for general engineering applications.

Typical uses

- General engineering parts
- Profile cut gears
- Wear / abrasion applications

Features & benefits

- Abrasion / wear properties improved on heat treatment

Warnings

- This material should be used in conjunction with the appropriate structural design and welding standards
- An untrimmed (mill) edge may contain surface discontinuities associated with the rolling process (refer to clause 8 of AS/NZS 3678). The plate

supplied may include an amount outside of the nominal ordered width, in accordance with relevant Australian standards. The area of the supplied plate which is outside of the nominal (customer ordered) width must not be used. Customers are advised to remove an equal width from each side of the plate when trimming.

- This grade is supplied in the rolled condition. Specific applications may require heat treatment.

Australian standards

AS/NZS 3678: 2016

AS/NZS 1365: 1996

ISO 9001:2015 Quality System certified

Normal / optional supply conditions

	Normal	Optional
Thickness Range	10mm – 100mm	-
Availability	Available in standard sizes	Sizes outside standard plate offer are available by enquiry
Edge Condition	Untrimmed (Mill Edge)*	-
Tolerances	AS/NZS 1365: 1996	-
Ultrasonic Inspection	-	AS 1710: 2007
Surface Inspection	BlueScope	Third party
Certification	BlueScope	Third party endorsed

Optional supply conditions may be subject to dimensional restrictions

Chemical composition

Element	Guaranteed Maximum %
Carbon	0.47
Silicon	0.5
Manganese	0.90
Phosphorus	0.040
Sulfur	0.040
Chromium*	0.25
Nickel*	0.50
Copper*	0.40
Molybdenum*	0.10
Aluminium	0.10
Titanium	0.040
CEQ (IIW)	0.09

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

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

Chrome + Nickel + Copper + Molybdenum ≤ 1.00 %

steel.com.au

Please ensure you have the correct data sheet for this product as displayed at www.steel.com.au

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For more information contact Steel Direct



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