Uncoated steel
Data Sheet

October 2019. This literature supersedes all previous issues

XLERPLATE® steel Floorplate
AS/NZS 3678 – 250

General description
A hot rolled structural floorplate (raised pattern on one surface) with guaranteed minimum yield strength of 250MPa.

Features & benefits
– Guaranteed minimum strength levels
– Excellent weldability
– Excellent formability
– ACRS accreditation (ACRS Certificate No. 120802)
– ATIC10 accreditation

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.
– No warranty is provided in relation to the use of this material for anti-slip applications.
– This material is not suitable in 'wet' surface conditions and is not suitable in 'dry' surface conditions where ramps have a steeper incline than 1:14.
– Customers to make their own assessment of the suitability of this product in the end use application.

Australian standards
AS/NZS 3678:2016
AS/NZS 1365:1996
ISO 9001:2015 Quality System certified

Normal / optional supply conditions

	Normal	Optional
Thickness Range	6mm – 12mm	-
Availability	Plate is available in standard sizes	-
Edge Condition	Untrimmed (Mill Edge)*	Trimmed
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
*Plates less than 8mm in thickness are supplied with trimmed edges

Chemical composition

Element	Guaranteed Maximum %
Carbon	0.22
Silicon	0.5
Manganese	1.70
Phosphorus	0.040
Sulfur	0.030
Chromium	0.25
Nickel	0.30
Copper	0.40
Molybdenum	0.08
Aluminium	0.10
Niobium**	0.020
Titanium	0.040
CEQ (IIW)	0.44

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

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

Mechanical properties

Tensile Properties (Transverse)		Thickness (mm)	
		t = 8	8 < t ≤ 12
Yield Strength (MPa)	Guaranteed Min	280	260
Tensile Strength (MPa)	Guaranteed Min	410	410
Elongation 5.65$\sqrt{S_0}$ (%)	Guaranteed Min	22	22

Formability	Thickness (mm)	Longitudinal	Transverse
Recommended min inside Radius	8 ≤ t ≤ 20	3.0t	2.0t

Raised Pattern inside

Slip Resistance

Slip resistance classification tests*	Classification
Wet Pendulum Test (Appendix A)	P3
Oil-Wet Inclining Platform Test (Appendix D)	R10

* Limited testing has been undertaken on this material to assess compliance with AS 4586: 2013 'Slip resistance classification of new pedestrian surface materials'. These tests were undertaken on newly produced Floorplate with no surface treatment.

Fire hazard properties

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

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