Uncoated Steel
Data Sheet

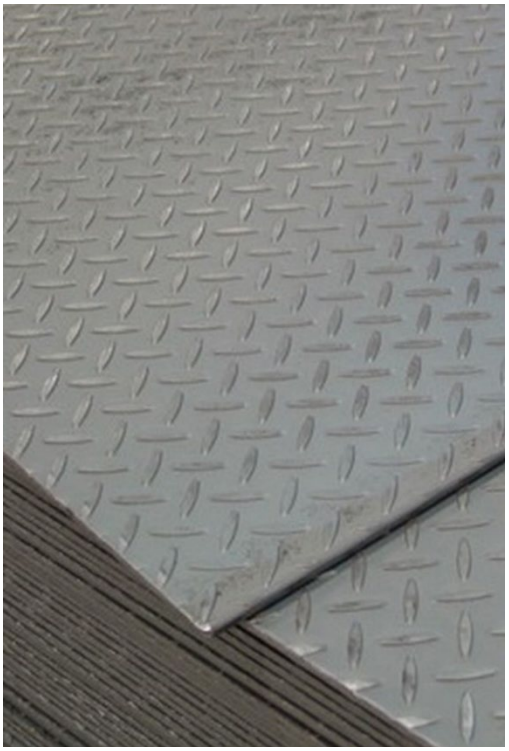
September 2026 - - This literature supersedes all previous issues

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)

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 3678:2016). 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.

Material should be stored under cover to avoid issues with storage related corrosion.

Australian and International Standards

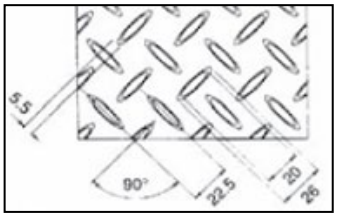
AS/NZS 3678:2016
AS/NZS 1365:1996 (R2016)
ISO 9001:2015 Quality System Certified

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 (R2016)	-
Ultrasonic Inspection	-	AS 1710:2007 (R2017)
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

Floorplate pattern



* Lozenge height approximately 1.5mm (Dimensions are indicative only)

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)	Required	410	410
Elongation 5.65$\sqrt{S_0}$ (%)	Guaranteed Min	n/a	n/a

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 (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.

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. XLERPLATE®, BlueScope and the BlueScope brand mark are registered trade marks of BlueScope Steel Limited. © 2026 BlueScope Steel Limited ABN 16 000 011 058. All rights reserved.