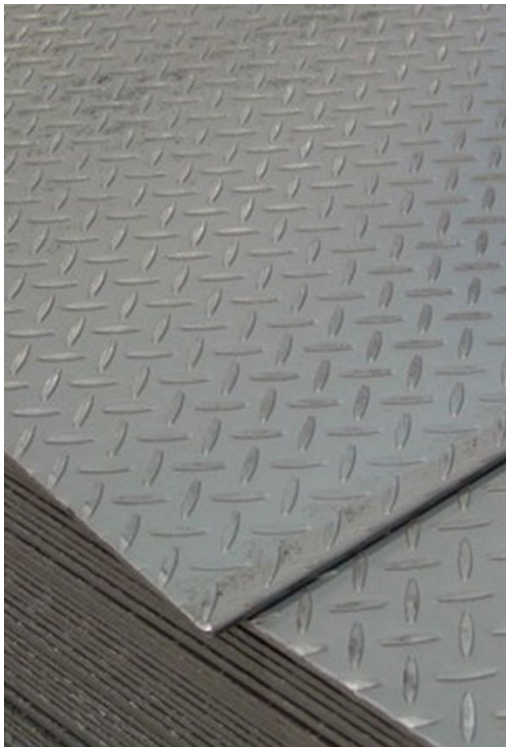
Uncoated Steel
Data Sheet

August 2023 - This literature supersedes all previous issues

AS/NZS 1594 – HA250 Floorplate coil

General description

Hot-rolled structural floorplate (raised pattern on one surface) with minimum yield strength of 250Mpa and good weldability.



Typical uses

Architectural features

Stairs and walkways

Features & benefits

Guaranteed minimum strength levels

Excellent weldability

Good formability

Excellent for galvanising applications

Warnings

This material should be used in conjunction with the appropriate design and welding standards.

An untrimmed (Mill) edge may contain minor surface discontinuities as a result of the rolling process. It is recommended that customers satisfy themselves that the edge is suitable for the application.

Free from coil break for 3 months after production.

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

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 and International Standards

AS/NZS 1594:2002 (R2016)

AS/NZS 1365:1996 (R2016)

ISO 9001:2015 Quality System certified

Supply conditions

	Normal
Thickness Range	2.1 – 8 mm *
Width Range	1195mm, 1200mm, 1210mm, 1220mm, 1500mm (other widths by enquiry) *
Length Range	1200mm - 12000mm *
Surface Finish	Floorplate
Edge Condition	Untrimmed (Mill Edge)
Tolerance	AS/NZS 1365:1996 (R2016)
Certification	BlueScope – Analysis and Mechanical Tests

* Not all thickness, width & length combinations are available
Optional supply conditions are subject to dimensional restrictions

Chemical composition

Element	Guaranteed Maximum %
Carbon	0.20
Silicon	0.030*
Manganese	1.20
Phosphorus	0.040
Sulfur	0.030
Aluminium	0.10
CEQ (IIW)	0.39

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

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

* Values refer to the Bluescope internal standard, whereas the AS/NZS 1594:2002 (R2016) guaranteed maximum is 0.35%

Mechanical properties

Tensile Properties (Longitudinal)		Thickness (mm) (2.1 ≤ t ≤ 10)
Yield Strength (MPa)	Guaranteed Min	250
Tensile Strength (MPa)	Guaranteed Min	350
Elong. on 200 mm (%)	Guaranteed Min	-

Weldability Group

WTIA Group
3

Refer to WTIA Technical Note 1 or AS/NZS 1554.1:2014

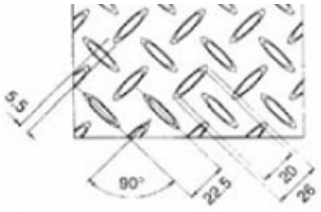
BlueScope

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.

Floorplate Pattern



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

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.