Coated Steel - Metallic
Data Sheet

November 2025 - This literature supersedes all previous issues

ZINCALUME® steel with Activate® technology G250

General description

ZINCALUME® steel G250 with Activate® technology is a hot- dipped aluminium / zinc / magnesium alloy coated structural steel with a regular spangle surface and a guaranteed minimum yield strength of 250MPa with good ductility.



Typical uses

General manufactured articles and structural sections. Suitable for rollforming to a minimum internal diameter of 0t.

Australian and International Standards

AS/NZS 1365:1996 (R2016)
AS 1397:2021
ISO 9001:2015 Quality System certified

Guaranteed properties of steel base

Mechanical properties	Guaranteed minimum
Yield Strength, MPa (longitudinal tensile)	250
Tensile Strength, MPa (longitudinal tensile)	320
Elongation on 80mm (≥ 0.60mm) %	22
180° Transverse Bend	0t

Chemical composition of steel base

Chemical properties	Guaranteed maximum %
Carbon – C	0.12
Manganese – Mn	0.50
Phosphorus – P	0.040
Sulphur – S	0.035

Metal coating adhesion – 180° bend test

Coating class	Result
AM125	0t

Where t = the diameter of mandrel in terms of thickness of product.

Dimensional capabilities

Thickness range (mm)	Max width (mm)
1.20	1000

Notes: Not every combination of thickness and width may be available. Supply conditions may be subject to dimensional restrictions and are subject to BlueScope Sales and Marketing confirmation. Slitting and shearing available on request from BlueScope Sales Offices. For requirements outside the standard product range please contact your local Sales Office.

Fire hazard properties

Test & Evaluation Methods	Range	Result
Simultaneous determination of ignitability, flame propagation, heat release and smoke release (AS/NZS 1530.3:1999 (R2016)) *	Ignitability Index (0 – 20)	0
	Spread of Flame Index (0 – 10)	0
	Heat Evolved Index (0 – 10)	0
	Smoke Developed Index (0 – 10)	0-1
NCC non-combustible material concessions (NCC 2022; AS/NZS 1530.3:1999 (R2016)) *	National Construction Code, Building Code of Australia 2022; Volume 1 Part C1, C2D10, (5) and (6)(e) and Volume 2: Section H, Part H3, H3D2, (1)(e)	May be used wherever a non-combustible material is required
	AS/NZS 1530.3:1999 (R2016)	

* The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Supply conditions

Attribute	Normal	Optional
Coating Class	AM125	-
Surface Condition	Spangled	-
Surface Treatment	Passivated & Resin coated	-
Branding	Branded	Not branded
Tolerance – Dimensions	Class A	Class B
Tolerance – Flatness	Class A	Class B

Important Notes: Optional supply conditions may be subject to dimensional restrictions.

Fabricating performance

Method	Rating
Bending	5
Drawing	2
Pressing	2
Rollforming	5
Lock Forming	NR
Welding	4
Painting Pre-treatment	5

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended
The ratings in this table are general indicators only, given as a guide to fabricating performance.

Important information

Material should be used promptly (within six months) to avoid the possibility of a storage related corrosion. For selection of the most appropriate metallic coated steel, please refer to Technical Bulletins TB1a, TB1b, CTB21 and CTB22. For storage, rollforming lubricants and other information please refer to the Technical Bulletins.

Zincalume®

steel.com.au
To learn more about this product

1800 064 384
steeldirect@bluescopesteel.com
For more information contact Steel Direct

BlueScope

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