

Coated Steel – Metallic

Data Sheet

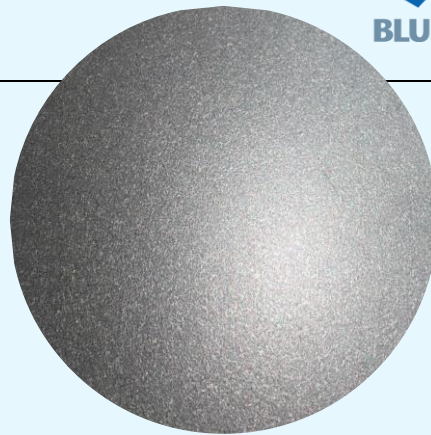


August 2019. This literature supersedes all previous issues

ZINCALUME® steel

with Activate® technology

G2N



General Description

ZINCALUME® G2N steel with Activate® technology is a hot dipped aluminium / zinc / magnesium alloy-coated structural steel with a regular spangle surface. It is suitable for moderate drawing and pressing, guaranteed non-ageing and free from stretcher strain.

Typical uses

Pressed garage door panels and miscellaneous pressings

Australian and International Standards

AS/NZS 1365:1996
AS 1397:2011
ISO 9001:2015 Quality System certified

Guaranteed properties of steel base

Mechanical properties	Guaranteed minimum
Elongation on 80mm ($\geq 0.60\text{mm}$) %	27
180° Transverse Bend	0t

Chemical composition of steel base

Chemical properties	Guaranteed maximum %
Carbon - C	0.10
Manganese - Mn	0.45
Phosphorus - P	0.03
Sulphur - S	0.03

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)
0.600	1100

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)	Ignitability Index (0 – 20)	0
	Spread of Flame Index (0 – 10)	0
	Heat Evolved Index (0 – 10)	0
	Smoke Developed Index (0 – 10)	2
NCC non-combustible material concessions (NCC 2019; AS/NZS 1530.3:1999)	National Construction Code, Building Code of Australia 2019; Volume 1: Part C1.9.e, and Volume 2: Part 3.7.1.1.e	May be used wherever a non-combustible material is required
	AS/NZS 1530.3:1999	
Combustibility test for materials (steel substrate) (AS 1530.1-1994)	AS 1530.1-1994	Not deemed combustible (steel substrate)

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	3
Pressing	3
Roll Forming	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.

steel.com.au

To learn more about this product

1800 064 384

steeldirect@bluescopesteel.com

For more information contact Steel Direct



9 320075 087197

Zincalume®



BLUESCOPE

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 Steel Limited's advice as to the suitability of this product for the purpose(s) for which you propose to use it. To contact BlueScope Steel Limited for advice about your proposed use of this product, please contact Steel Direct. ZINCALUME®, BlueScope and the BlueScope brand mark are registered trade marks of BlueScope Steel Limited.

© 2019 BlueScope Steel Limited ABN 16 000 011 058. All rights reserved.