

# Coated Steel – Metallic

## Data Sheet

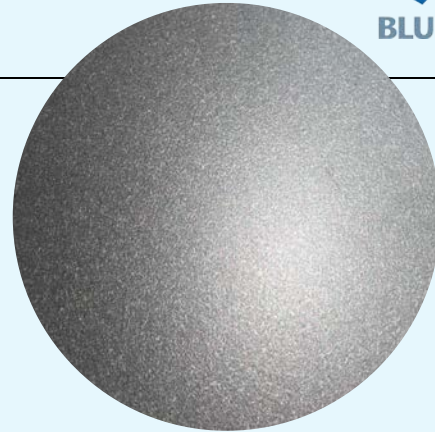


February 2018. This literature supersedes all previous issues

# ZINCALUME<sup>®</sup> steel

## with Activate<sup>®</sup> technology

### G250



#### General Description

ZINCALUME<sup>®</sup> G250 steel with Activate<sup>®</sup> 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 roll forming to a minimum internal diameter of 0t.

#### Australian and International Standards

AS/NZS 1365:1996  
AS 1397:2011  
ISO 9001 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 ( $\geq 0.60\text{mm}$ ) %	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 ranges (mm)	Max width (mm)
1.20 - 1.60	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.

## Resistance to fire

Index	Range	Result
Ignitability Index	0 - 20	0
Spread of Flame Index	0 - 10	0
Heat Evolved Index	0 - 10	0
Smoke Developed Index	0 - 10	1
National Construction Code	May be used wherever a non-combustible material is required*	

\*According to National Construction Code, Building Code of Australia, Volume1: Part C1.12.e, and Volume 2: Part 3.7.1.2.e

## 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
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

For more information call Steel Direct



Zincalume®



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Page 2 of 2