



ZINCALUME[®] steel with Activate[®] technology G550

General Description

ZINCALUME[®] G550 steel with Activate[®] technology is a hot-dipped aluminium / zinc / magnesium alloy coated structural steel with a regular spangle surface, a guaranteed minimum yield strength of 550MPa with limited ductility.

Typical uses

Roofing, walling and structural sections.

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 (longitudinal tensile)
Yield Strength, MPa	550
Tensile Strength, MPa	550
Elongation on 80mm ($\geq 0.60\text{mm}$) %	2

Chemical composition of steel base

Chemical properties	Guaranteed maximum %
Carbon - C	0.20
Manganese - Mn	1.20
Phosphorus - P	0.040
Sulphur - S	0.030

Metal coating adhesion – 180° bend test

Coating class	Result (Where t = the diameter of mandrel in terms of thickness of product.)
AM125	2t

Dimensional capabilities

Thickness ranges (mm)	Max Width (mm)
0.300 – 0.319	1000
0.320 – 0.349	1100
0.350 – 0.399	1220
0.400 – 0.700	1250
0.701 – 1.000	1220

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

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	-

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

Fabricating performance

Method	Rating
Bending	1
Drawing	NR
Pressing	NR
Roll Forming	3
Lock Forming	NR
Welding (design must allow for some strength reduction near welds)	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®



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. ZINCALUME®, Activate®, BlueScope and the BlueScope brand mark are registered trade marks of BlueScope Steel Limited.

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