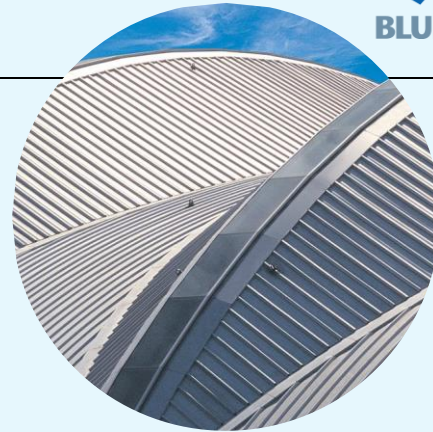


Coated Steel – Metallic

Data Sheet



August 2019. This literature supersedes all previous issues



ZINCALUME® steel

with Activate® technology

G300

General Description

ZINCALUME® G300 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 300MPa with good ductility.

Typical uses

General manufactured articles, garage doors and curved roofing. Suitable for roll forming to a minimum internal diameter of 1t.

Australian and International Standards

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

Guaranteed properties of steel base

| Mechanical properties | Guaranteed minimum |
|--|--------------------|
| Yield Strength, MPa (longitudinal tensile) | 300 |
| Tensile Strength, MPa (longitudinal tensile) | 340 |
| Elongation on 80mm (≥ 0.60 mm) % | 18 |
| 180° Transverse Bend | 1t |

Chemical composition of steel base

| Chemical properties | Guaranteed maximum % |
|---------------------|----------------------|
| Carbon - C | 0.30 |
| Manganese - Mn | 1.60 |
| Phosphorus - P | 0.100 |
| Sulphur - S | 0.035 |

Metal coating adhesion – 180° bend test

| Coating class | Result (t = diameter of mandrel in terms of thickness of product) |
|---------------|---|
| AM125 | 1t |

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 – 0.600 | 1250 |
| 0.601 – 1.200 | 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.

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 | 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.

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To learn more about this product

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

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