

ZINCALUME® G250 steel with Activate™ technology

Revision 0

February 2013

This literature supersedes all previous issues



Metallic Coated - MC

Structural - S

GENERAL DESCRIPTION

ZINCALUME® G250 steel 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 250 MPa with good ductility. Suitable for roll forming to a minimum internal diameter of 0t.

TYPICAL USES

General manufactured articles and structural sections.

AUSTRALIAN STANDARDS

AS/NZS 1365:1996 1

AS 1397-2011

GUARANTEED PROPERTIES OF STEEL BASE

| MECHANICAL PROPERTIES | GUARANTEED MINIMUM |
|--------------------------------|--------------------|
| Longitudinal Tensile | |
| Yield Strength, MPa | 250 |
| Tensile Strength, MPa | 320 |
| Elongation on 80mm (≥ 0.60mm)% | 22 |
| 180° Transverse Bend (L axis) | 0t |

CHEMICAL COMPOSITION OF STEEL BASE

| CHEMICAL PROPERTIES | GUARANTEED MAX % |
|---------------------|------------------|
| Carbon - C | 0.12 |
| Phosphorus - P | 0.04 |
| Manganese - Mn | 0.5 |
| Sulphur - S | 0.035 |

METAL COATING ADHESION - 180° BEND TEST

| COATING CLASS | |
|---------------|----|
| AM125 | 0t |

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

FIRE HAZARD PROPERTIES

| 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 | 0-1 |

DIMENSIONAL CAPABILITIES

| THICKNESS RANGES (mm) | PRODUCT | MAX. WIDTH MM |
|-----------------------|---------|---------------|
| 1.20 - 1.60 | | 1000 |

Notes: These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Steel Sales and Marketing confirmation.

Slitting and shearing available on request from BlueScope Steel Sales Offices. For requirements outside the standard product range please contact your local Sales Office.

NORMAL/OPTIONAL SUPPLY CONDITIONS

| | NORMAL | OPTIONAL |
|-------------------|---------------------------|-------------|
| Coating Class | AM125 | |
| Surface Condition | Spangled | |
| Surface Treatment | Passivated & Resin coated | |
| Branding | Branded | Not branded |
| Tolerance Class | | |
| Dimensions | Class A | Class B |
| Flatness | Class A | |

Important Notes

Optional supply conditions may be subject to dimensional restrictions

Australia 1800 800 789

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Please ensure you have the current data sheet for this product as displayed at steelproducts.bluescopesteel.com.au



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FABRICATING PERFORMANCE

| METHOD | RATING | METHOD | RATING |
|--------------|--------|-----------------------|--------|
| Bending | 5 | Lock Forming | NR |
| Drawing | 2 | Welding | 5 |
| Pressing | 1 | Painting Pretreatment | 5 |
| Roll Forming | 5 | | |

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended

TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)

| Yield Strength (MPa) | | |
|----------------------|---------|---------|
| | Minimum | Maximum |
| 1.5 - 1.6 | 280 | 340 |

| Tensile Strength (MPa) | | |
|------------------------|---------|---------|
| | Minimum | Maximum |
| 1.5 - 1.6 | 360 | 420 |

| Total Elongation on 80mm (%) | | |
|------------------------------|---------|---------|
| | Minimum | Maximum |
| 1.5 - 1.6 | 28 | 38 |

IMPORTANT INFORMATION

Typical mechanical properties are based on typical product despatched to customers. Note that ductility will decline through a natural ageing process during storage and/or paint stoving cycle.

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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