

Metallic Coated - MC

Structural - S

GENERAL DESCRIPTION

ZINCALUME® G550 steel is a hot-dipped zinc/aluminium alloy-coated structural steel with a spangle surface and a guaranteed minimum yield strength of 300 Mpa

TYPICAL USES

Roofing and walling

STANDARDS

Certified Standards – TIS2228-2535
Reference Standards - AS 1397/ASTM A792 A792M/JIS G3321
AS 1365/ASTM A924 A924M

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED MINIMUM
Longitudinal Tensile	
Yield Strength, MPa	300
Tensile Strength, MPa	340
Elongation on 80mm (≥ 0.60mm)%	18

CHEMICAL COMPOSITION OF STEEL BASE

CHEMICAL PROPERTIES	GUARANTEED MAX %
Carbon - C	0.2
Phosphorus - P	0.04
Manganese – Mn	1.2
Sulphur - S	0.03

METAL COATING ADHESION - 180° BEND TEST

COATING CLASS	
AZ150	2t
AZ200	2t

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
0.20 – 0.24		940
0.25 – 0.29		1220
0.30 – 1.00		1160

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

NORMAL/OPTIONAL SUPPLY CONDITIONS

	NORMAL	OPTIONAL
Coating Class	AZ150, AZ200	
Surface Condition	Spangled	
Surface Treatment	Passivated & Resin coated	
Branding	Branded	Not branded

Important Notes

Optional supply conditions may be subject to dimensional restrictions

FABRICATING PERFORMANCE

METHOD	RATING	METHOD	RATING
Bending	5	Lock Forming	NR
Drawing	2	Welding	4
Pressing	2	Painting Pretreatment	5
Roll Forming	5		

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

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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