ZINCALUME® Ultra steel G550

Revision Nov 2026
This literature supersedes all previous issues

Metallic Coated - MC

GENERAL DESCRIPTION

ZINCALUME® Ultra steel G550 is a hot-dipped zinc-aluminium 55% alloy-coated structural steel with coating mass of minimum 150 g/m2 with a guaranteed minimum yield strength of 550 Mpa.

TYPICAL USES

Roll-formed decking, and walling, rainwater goods, tubing, garage doors, gutters, sign and general application

STANDARDS

Certified Standards – TIS. 2228-2565
Reference Standards – JIS G3321-2010,
AS 1397-2021, AS 1365-1996
ASTM A 792-2010

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED MINIMUM
Yield Strength, MPa	550
Tensile Strength, MPa	550
Elongation on 50mm (≥ 0.60mm), %	2

CHEMICAL COMPOSITION OF STEEL BASE

CHEMICAL PROPERTIES	GUARANTEED MAX %
Carbon - C	0.20
Phosphorus - P	0.04
Manganese – Mn	1.20
Sulphur - S	0.03

METAL COATING ADHESION – 180° BEND TEST

COATING CLASS	COATING ADHESION
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

DIAMENSIONAL CAPABILITIES

THICKNESS RANGES (mm)	MAX. WIDTH (mm)
0.30-1.00	1260
1.01-1.20	1220

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
Coating Class	AZ200
Surface Condition	Spangled
Surface Treatment	Passivated & Resin coated
Branding	Branded

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

SOLAR REFLECTANCE INDEX

PROPERTY	TEST & EVALUATION METHOD (S)	RESULTS
Solar Reflectance Index	ASTM E 903-82, ASTM C 1371, ASTM E 1980-01(Approach 2)	56

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 dispatched 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 TB-1a, TB-1b, CTB-21 and CTB-22. For storage, rollforming lubricants and other information please refer to the Technical Bulletins.

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Please ensure you have the current data sheet for this product as displayed at www.nsbluescope.com