

Metallic Coated - MC

GENERAL DESCRIPTION

BLUESCOPE ZACS® steel is a hot-dipped zinc-aluminium 55% alloy-coated structural steel with a spangle surface. It is designed with cost effective option.

TYPICAL USES

Light industrial/commercial building or residential house roofing and walling.

STANDARDS

Certified Standards – TIS. 2228-2565
Reference Standards – JIS G3321-2010,
AS 1397-2021,
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 ADHESION
T Bend for G550 (Equiv. Grade 550)	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)
0.23-0.24 BMT	940
0.25-0.70 BMT	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	OPTIONAL
Surface Condition	Regular 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 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