

Metallic Coated - MC

GENERAL DESCRIPTION

SuperDyma® SmartDuct™ is an excellent corrosion-resistant, coated with Zn-11%Al-3%Mn, suitable for a broad range of commercial and air ducting applications, widely available as merchant stock guaranteed for lock-forming and suitable for moderate drawing applications.

TYPICAL USES

Manufacturing air ducting.

STANDARDS

Certified standard - TIS 2981-2562

Reference Standards – AS1397, JIS G 3323

GUARANTEED PROPERTIES OF STEEL BASE

STEEL GRADE	Yield Strength, MPa	Tensile Strength, MPa	Elongation, %
G250	>250	>320	>25*
SGMCC	>240	>270	-

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

STEEL GRADE	COATING CLASS	COATING ADHESION
G250	ZM180, K18	0t
SGMCC	ZM180, K18	1t

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)
0.27-1.60 TCT	1265

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	K14, K18
Surface Condition	Zero Spangled
Surface Treatment	Passivated
Branding	Branded

Important Notes

Optional supply conditions may be subject to dimensional restrictions

FABRICATING PERFORMANCE

Steel grade	Bending	Drawing	Pressing	Roll Forming	Welding (design must allow for some strength reduction near welds)	Painting Pretreatment	Lock forming
G250	5	3	2	5	5	5	NR
SGMCC	2	NR	NR	5	5	5	NR

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

IMPORTANT INFORMATION

Spangle variance from coil to coil is an inherent characteristic of metallic alloy coating process and will not affect the performance of the product. It is therefore not a cause for rejection. Typical mechanical properties are based on typical product despatcher to customers. Note that ductility will decline through a natural ageing process during storage and/or paint stoving cycle.

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