## SuperDyma<sup>®</sup> SmartFrame<sup>™</sup>

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This literature supersedes all previous issues

## Metallic Coated - MC

### **GENERAL DESCRIPTION**

SuperDyma® SmartFrame<sup>™</sup> is a continuous hot-dipped zinc-11% aluminium-3% Magnesium alloy-coated structural steel with a zero-spangle surface.

# BlueScope

## **TYPICAL USES**

Roll-formed structuring section, trusses, battens and framing

#### **STANDARDS**

Certified standard - TIS 2981-2562 Reference Standards – AS1397, JIS G 3323

#### **GUARANTEED PROPERTIES OF STEEL BASE**

			Elongation, %
G500	>500	>520	>8*
G550	>550	>550	>2*
SGMC570	>560	>570	-

\*Applies for test pieces equal to or grater than 0.6 mm. thickness.

#### METAL COATING ADHESION - 180° BEND TEST

STEEL GRADE	COATING CLASS	COATING ADHESION
G500	ZM180, K18	2t
G550	211100, KTO	2t
SGMC570	ZM150, K14	2t

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

#### **DIAMENSIONAL CAPABILITIES**

STEEL GRADE	THICKNESS RANGES (mm)	MAX. WIDTH (mm)
G500	1.01 – 1.20	1260
G550	0.35 - 1.00	1260
SGMC570	0.35 – 1.20	1260

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.

#### FABRICATING PERFORMANCE

#### 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

#### 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

#### NORMAL/OPTIONAL SUPPLY CONDITIONS

	NORMAL
Coating Class	ZM180, K18, ZM150, K14
Surface Condition	Zero Spangled
Surface Treatment	Passivated
Branding	Branded

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Optional supply conditions may be subject to dimensional restrictions

Steel grade	Bending	Drawing	Pressing	Roll Forming		Painting Pretreat ment	Lock forming
G500	2	NR	NR	3	5	5	NR
G550	2	NR	NR	3	5	5	NR
SGMC570	2	NR	NR	3	5	5	NR

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 storing 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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Important Notes