

Metallic Coated MC Structural S ZINCFORM® G350 steel

Revision 8, November 2003
This literature supersedes all previous issues

GENERAL DESCRIPTION

ZINCFORM® G350 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 350 MPa, with good ductility. Suitable for roll forming to a minimum internal diameter of 2t.

TYPICAL USES

Roll-formed structural sections.

AUSTRALIAN STANDARDS

AS 1365
AS 1397:2001

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED MINIMUM
Yield Strength (MPa)	350
Tensile Strength (MPa)	420
Elongation on 80mm (≥ 0.60 mm) %	14
180° transverse bend (L axis)	2t

CHEMICAL PROPERTIES	GUARANTEED MAXIMUM %
Carbon (C)	0.30
Phosphorus (P)	0.10
Manganese (Mn)	1.60
Sulphur (S)	0.035

Note – tensile tested in longitudinal direction

COATING ADHESION – 180° BEND TEST

COATING CLASS	GUARANTEED
Z100	0t
Z200	0t
Z275	1t
Z450	1t
Z600	2t

FIRE HAZARD PROPERTIES

IGNITABILITY INDEX	(range 0-20)	0
SPREAD OF FLAME INDEX	(range 0-10)	0
HEAT EVOLVED INDEX	(range 0-10)	0
SMOKE DEVELOPED INDEX	(range 0-10)	0

DIMENSIONAL CAPABILITIES

Thickness Ranges mm	Max. Width mm
≥ 0.40 ≤ 0.60	1380
> 0.60 ≤ 1.00	1350

Slitting and shearing available on request from BlueScope Steel sales offices.

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Steel Sales and Marketing confirmation.

NORMAL/OPTIONAL SUPPLY CONDITIONS

	Normal	Optional
Coating Class	Z275	Z200, Z450, Z600
Surface Condition	Spangled	Minimised spangle
Surface Treatment	Passivated	–
Tolerance Class		
Dimensions	A Class	B Class
Flatness	A Class	B Class
Branding	Branded	–

Important Notes

Material should be used promptly (within 6 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 lubricant 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.bluescopesteel.com.au

BlueScope Steel Limited

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BlueScope Steel (AIS) Pty Ltd ABN 19 000 019 625

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Continued

TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)

Thickness mm	Yield Strength & Tensile Strength MPa															
	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480
0.85 - 1.0																

Key	 yield strength	 tensile strength
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Thickness mm	Total Elongation on 80mm (%)								
	28	29	30	31	32	33	34	35	36
0.85 - 1.0									

FABRICATING PERFORMANCE		TYPICAL CHEMICAL COMPOSITION OF STEEL BASE	
Method	Rating		%
Bending	3	Carbon (C)	0.13 - 0.18
Drawing	2	Phosphorus (P)	0.00 - 0.03
Pressing	2	Manganese (Mn)	0.60 - 0.90
Roll-Forming	3	Silicon (Si)	0.00 - 0.03
Welding	5	Sulphur (S)	0.00 - 0.02
Painting (Pretreatment)	5	Aluminium (Al)	0.015 - 0.08
		Nitrogen (N)	0.00 - 0.010

where 1 = limited to 5 = excellent, or NR = not recommended

IMPORTANT NOTES:

- Typical Mechanical Properties are based on typical product dispatched to customers. Note that ductility will decline through a natural aging process during storage and/or paint stoving cycle.

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