

# Metallic Coated **MC** Formable **F** **ZINCSEAL®** **G2S** steel

Revision 3, November 2003

This literature supersedes all previous issues

## GENERAL DESCRIPTION

ZINCSEAL® G2S is a low coating mass zinc/iron alloy-coated commercial forming steel suitable for bending and moderate forming. It has a skin-passed smooth surface finish providing a surface suitable for a high quality paint finish.

## TYPICAL USES

Office furniture, light fittings, general fabrication.

## AUSTRALIAN STANDARDS

AS 1365  
AS 1397:2001

## GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED MINIMUM
Elongation on 80 mm ( $\geq 0.60$ mm) %	27
180° transverse bend (L axis)	0t

Note – tensiles tested in transverse direction

CHEMICAL PROPERTIES	GUARANTEED MAXIMUM %
Carbon (C)	0.10
Phosphorus (P)	0.025
Manganese (Mn)	0.45
Sulphur (S)	0.03

## 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
$\geq 0.55 \leq 2.00$	1250

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	ZS30	–
Surface Condition	Smooth matte	–
Surface Treatment	Phosphated	Unphosphated (oiled)
Tolerance Class		
Dimensions	A Class	B Class
Flatness	A Class	B Class
Branding	Not 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](http://www.bluescopesteel.com.au)

## BlueScope Steel Limited

BlueScope Steel Limited ABN 16 000 011 058  
BlueScope Steel (AIS) Pty Ltd ABN 19 000 019 625

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Produced by Artimprint (02) 9984 8586



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**Continued**

## TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)

Thickness mm	Yield Strength & Tensile Strength MPa																		
	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430
0.55																			
0.7																			
0.95																			
1.5																			
1.9																			

**Key**  yield strength  tensile strength

Thickness mm	Total Elongation on 80mm (%)													
	30	31	32	33	34	35	36	37	38	39	40	41	42	43
0.55														
0.7														
0.95														
1.5														
1.9														

### FABRICATING PERFORMANCE

Method	Rating
Bending	5
Drawing	3
Pressing	3
Roll-Forming	5
Welding	5
Painting (Pretreatment)	5

### TYPICAL CHEMICAL COMPOSITION OF STEEL BASE

	%
Carbon (C)	0.035 - 0.070
Phosphorus (P)	0.00 - 0.025
Manganese (Mn)	0.20 - 0.30
Silicon (Si)	0.00 - 0.02
Sulphur (S)	0.00 - 0.02
Aluminium (Al)	0.02 - 0.07
Nitrogen (N)	0.000 - 0.008

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.
- This type of product is not suitable for painting in coil form and forming post painting as problems may be experienced with paint adhesion.

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