# Metallic Coated MC Formable F ZINCANNEAL® G2S steel

Revision 8, November 2003
This literature supersedes all previous issues

### **GENERAL DESCRIPTION**

ZINCANNEAL® G2S is a matte hot-dipped zinc/iron alloy-coated commercial forming steel with a skin-passed smooth surface suitable for direct-on painting. Some powdering of the coating may occur with severe deformation.

### **TYPICAL USES**

Exposed painted panels, non-exposed automotive panels, washing machines, acoustic ceiling tiles, door frames, switchboards, commercial refrigerators and freezers.

### **AUSTRALIAN STANDARDS**

AS 1365 AS 1397:2001

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

MECHANICAL PROPERTIES	GUARANTEED MINIMUM				
Elongation on 80 mm (≥ 0.60 mm) %	27				
180° transverse bend (L axis)	Ot				

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				
0.50 < 0.57	1525				
≥ 0.57 < 1.00	1625				
≥ 1.00 < 1.83	1525				
≥ 1.83 < 1.90	1470				
≥ 1.90 ≤ 2.00	1400				
≥ 1.83 < 1.90	1470				

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	ZF100	45F45, 60F60, ZF80
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.

ZINCANNEAL® is a registered trade mark of BlueScope Steel Limited. BlueScope is a trade mark of BlueScope Steel Limited.

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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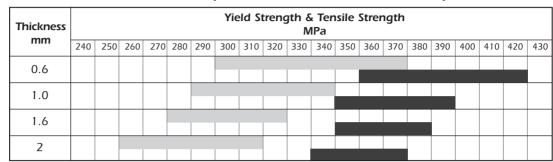
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# TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)





Thickness	Total Elongation on 80mm (%)															
mm	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
0.6																
1.0																
1.6																
2																

FABRICATING PERFORMANCE		TYPICAL CHEMICAL COMPOSITION OF STEEL BASE				
Method	Rating		%			
Bending	5	Carbon (C)	0.035 - 0.070			
9	_	Phosphorus (P)	0.00 - 0.025			
Drawing	3	Manganese (Mn)	0.20 - 0.30			
Pressing	3	Silicon (Si)	0.00 - 0.02			
Roll-forming	5	Sulphur (S)	0.00 - 0.02			
Welding	5	Aluminium (AI)	0.02 - 0.07			
Painting (Pretreatment)	5	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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