Metallic Coated Formable GALVABOND® MC F G2 steel G2S steel

Revision 8, November 2003
This literature supersedes all previous issues

GENERAL DESCRIPTION

GALVABOND® G2 steel is a hot-dipped zinc-coated commercial forming steel with a spangled surface, suitable for general manufacturing, widely available as distributor stock. Product is suitable for moderate drawing applications and is suitable for lockseaming up to 1.6mm thick.

GALVABOND® G2S steel is skinpassed to improve surface quality. Under normal storage conditions it will be free of fluting for 3 months after galvanising.

TYPICAL USES

Tube, Airconditioning ducts, Airconditioning Panels, Meter Box, Trailers, Partioning Systems, Cable Trays, Scaffolding Planks, Rendering Mesh, Feeder Troughs.

AUSTRALIAN STANDARDS

AS 1365
AS 1397:2001

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED MINIMUM
Elongation on 80mm (≥ 0.60mm) %	27
180° transverse bend (L axis)	0t
Pittsburgh lock-seam (≤ 1.6mm)	Pass

CHEMICAL PROPERTIES	GUARANTEED MAXIMUM %
Carbon (C)	0.1
Phosphorus(P)	0.025
Manganese (Mn)	0.45
Sulphur (S)	0.03

Note – tensile tested in transverse direction

COATING ADHESION – 180° BEND TEST

COATING CLASS	GUARANTEED
Z100	0t
Z275	0t
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
≥ 0.3 < 0.32	G2, G2S	1070
≥ 0.32 < 0.35	G2, G2S	1100
≥ 0.35 < 0.40	G2, G2S	1220
≥ 0.40 ≤ 0.45	G2, G2S	1390
> 0.45 ≤ 0.50	G2, G2S	1510
> 0.50 ≤ 1.85	G2, G2S	1525
> 1.85 ≤ 1.90	G2, G2S	1485
> 1.90 ≤ 1.95	G2, G2S	1440
> 1.95 ≤ 2.00	G2, G2S	1400
> 2.00 ≤ 3.20	G2	1220

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	Z100 Z450>0.35mm Z600>0.40mm
Surface Condition	Spangled	Minimised spangle
Surface Treatment	Passivated	Unpassivated (oiled)
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 phenomena of galvanised coatings termed intergranular 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.

Please ensure you have the current data sheet for this product as displayed at 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

SYDNEY: (02) 9795 6700 **MELBOURNE:** (03) 9586 2222 **BRISBANE:** (07) 3845 9300 **ADELAIDE:** (08) 8243 7333 **PERTH:** (09) 9330 0666

Produced by Artimprint (02) 9984 8586

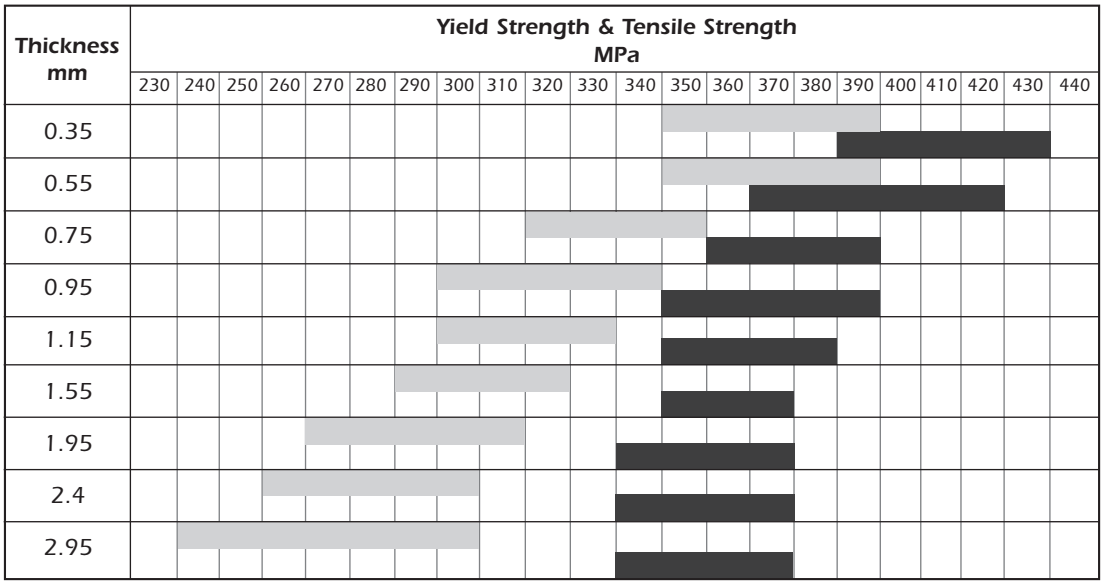
Metallic Coated Formable GALVABOND®

MC F G2 steel G2S steel

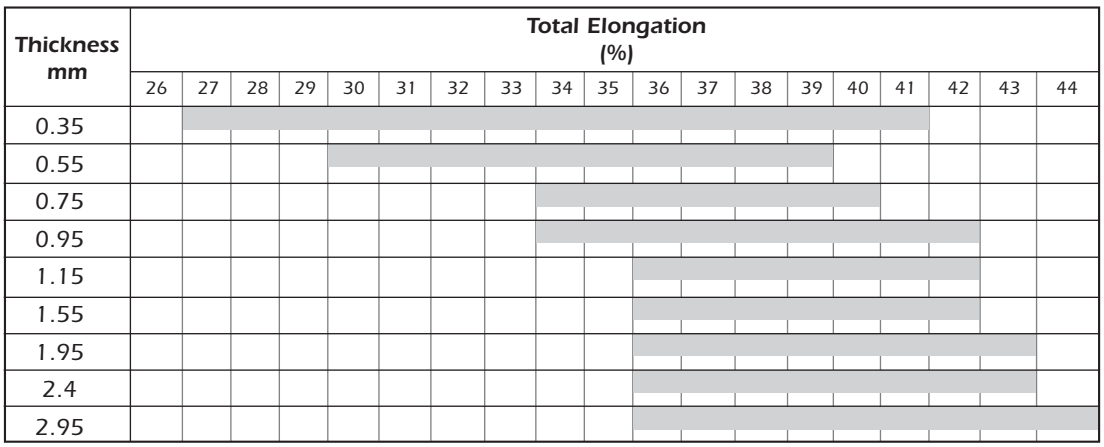
Revision 8, November 2003
This literature supersedes all previous issues

Continued

TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)



Key yield strength tensile strength



FABRICATING PERFORMANCE

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

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

TYPICAL CHEMICAL COMPOSITION OF STEEL BASE

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

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.
- The Skin-Passing of GALVABOND® G2 steel will generally give a marginally higher yield strength and marginally reduced % elongation.

Please ensure you have the current data sheet for this product as displayed at 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

SYDNEY: (02) 9795 6700 **MELBOURNE:** (03) 9586 2222 **BRISBANE:** (07) 3845 9300 **ADELAIDE:** (08) 8243 7333 **PERTH:** (09) 9330 0666

Produced by Artimprint (02) 9984 8586