Metallic Coated Formable GALVABOND®

F G2 steel G2S steel

GUARANTEED

MAXIMUM %

0.1 0.025

0.45

0.03

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)	Ot
Pittsburgh lock-seam (≤ 1.6mm)	Pass

			_		
Note -	tensile	tested	in	transverse	direction

FIRE HAZARD PROPERTIES

Manganese (Mn) Sulphur (S)

CHEMICAL

PROPERTIES

Carbon (C)

Phosphorus(P)

COATING CLASS	GUARANTEED
Z100	Ot
Z275	Ot
Z450	1t
Z600	2t

COATING ADHESION - 180° BEND TEST

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.

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

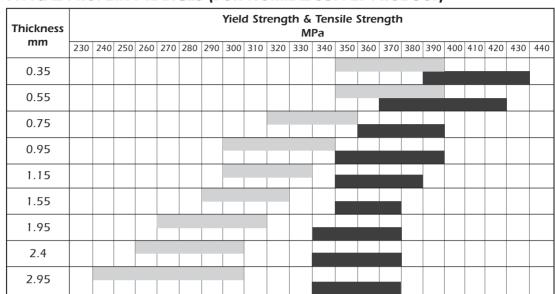
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G2S steel

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Continued

TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)



Key yield strengt	h tensile strength
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Thickness								7	otal	Elon (%)	igati	on							
mm	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
0.35			1	1				1		1	1					1			
0.55																			
0.75																			
0.95																			
1.15																	1		
1.55																			
1.95																			
2.4																			
2.95														1		1			

FABRICATING PERFORMANCE

TYPICAL CHEMICAL COMPOSITION OF STEEL BASE

Method	Rating		%
Bending	5	Carbon (C)	0.035 - 0.070
Drawing	3	Phosphorus (P)	0.00 - 0.02
Pressing	3	Manganese (Mn)	0.20 - 0.30
Roll-Forming	5	Sulphur (S)	0.00 - 0.02
Lock-Forming	5	Silicon (Si)	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.
- The Skin-Passing of GALVABOND® G2 steel will generally give a marginally higher yield strength and marginally reduced % elongation.

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