Coated Steel - Metallic
Data Sheet

May 2023 - This literature supersedes all previous issues

GALVABOND® steel G2 / G2S

General description

GALVABOND® steel G2 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® steel G2S is skinpassed to improve surface quality. Under normal storage conditions, free of fluting for 3 months after galvanising.

Typical uses

Partition walling systems, air conditioning ducts and panels, tube, meter boxes, trailers, cable trays, scaffolding planks, rendering mesh, feeder troughs.

Australian and International Standards

AS/NZS 1365:1996 (R2016)
AS 1397:2021
ISO 9001:2015 Quality System certified

Guaranteed properties of steel base

Mechanical properties	Guaranteed minimum
Elongation on 80mm (≥ 0.60mm) % (transverse tensile)	27
180° Transverse Bend (L axis)	0t
Pittsburgh lock-seam (≤ 1.6mm)	Pass

Chemical composition of steel base

Chemical properties	Guaranteed maximum %
Carbon – C	0.10
Manganese – Mn	0.45
Phosphorus – P	0.025
Sulphur – S	0.030

Metal coating adhesion – 180° bend test

Coating class	Result
Z100	0t
Z200	0t
Z275	0t
Z450	1t
Z600	2t

Where t = the diameter of mandrel in terms of thickness of product.

Dimensional capabilities

Thickness range (mm)	Max width (mm)
0.30 – 0.319	1000
0.32 – 0.349	1100
0.35 – 0.399	1220
0.40 – 0.419	1300
0.42 – 0.499	1390
0.45 – 0.500	1510
0.501 – 2.00	1530
2.01 – 3.20	1220 (G2 only)
3.201 – 3.50	1000 (G2 only)

Notes: Not every combination of thickness and width may be available. Supply conditions may be subject to dimensional restrictions and are subject to BlueScope Sales and Marketing confirmation. Slitting and shearing available on request from BlueScope Sales Offices. For requirements outside the standard product range please contact your local Sales Office. To determine maximum mill edge width available, subtract 30mm from the maximum width.

Fire hazard properties

Test & Evaluation Methods	Range	Result
Simultaneous determination of ignitability, flame propagation, heat release and smoke release (AS/NZS 1530.3:1999 (R2016)) *	Ignitability Index (0 – 20)	0
	Spread of Flame Index (0 – 10)	0
	Heat Evolved Index (0 – 10)	0
	Smoke Developed Index (0 – 10)	2
NCC non-combustible material (NCC 2022)	National Construction Code, Building Code of Australia 2022; Volume 1 Part C1, C2D10, (5)	Non-combustible
NCC non-combustible material concessions (NCC 2022; AS/NZS 1530.3:1999 (R2016)) *	National Construction Code, Building Code of Australia 2022: Volume 2: Section H, Part H3, H3D2, (1)(e)	May be used wherever a non-combustible material is required
	AS/NZS 1530.3:1999 (R2016)	
Combustibility test for materials (steel substrate) (AS 1530.1-1994 (R2016)) #	AS 1530.1-1994 (R2016)	Not deemed combustible (steel substrate)

* The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.
# These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

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Supply conditions

Attribute	Normal	Optional
Coating Class	Z275	Z100, Z200, (Z450 >0.35mm; Z600 by enquiry)
Surface Condition	Spangled	Minimised spangle
Surface Treatment	Passivated	Unpassivated (oiled)
Branding	Branded	-
Tolerance – Dimensions	Class A	B Class
Tolerance – Flatness	Class A	B Class

Important Notes: Optional supply conditions may be subject to dimensional restrictions.

Fabricating performance

Method	Rating
Bending	5
Drawing	3
Pressing	3
Rollforming	5
Lock Forming	5
Welding (design must allow for some strength reduction near welds)	5
Painting Pre-treatment	5

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended
The ratings in this table are general indicators only, given as a guide to fabricating performance.

Important information

Material should be used promptly (within six 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 lubricants and other information please refer to the Technical Bulletins.