

Metallic-Coated Structural

MC S

GALVSPAN® G550

Revision 9, June 2001

This literature supersedes all previous issues

GENERAL DESCRIPTION

GALVSPAN® G550 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 550 MPa. Under appropriate roll forming conditions, suitable for roll-forming to a minimum internal diameter of 4t.

TYPICAL USES

Roll-formed sections for structural applications.

AUSTRALIAN STANDARDS

AS 1365
AS 1397

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED MINIMUM
Yield strength (MPa)	550
Tensile Strength (MPa)	520
Elongation on 80mm (≥ 0.60 mm) %	2

CHEMICAL PROPERTIES	GUARANTEED MAXIMUM %
Carbon (C)	0.20
Phosphorus(P)	0.04
Manganese (Mn)	1.20
Sulphur (S)	0.03

Note – tensiles tested in longitudinal direction.

COATING ADHESION – 180° BEND TEST

COATING CLASS	GUARANTEED
Z350	2t
Z450	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
0.30 < 0.32	1070
0.32 < 0.35	1100
0.35 ≤ 1.00	1220

Slitting and shearing available on request from CSA sales offices.

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to CSA Sales and Marketing confirmation.

NORMAL/OPTIONAL SUPPLY CONDITIONS

	Normal	Optional#
Coating Class	Z350	Z450
Surface Condition	Spangled	–
Surface Treatment	Passivated	–
Tolerance Class		
Dimensions	A Class	–
Flatness	A 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.

Coated Steel – Australia

BHP Limited ABN 49 004 028 077
BHP Steel (JLA) Pty Ltd ABN 16 000 011 058
BHP Steel (AIS) Pty Ltd ABN 19 000 019 625

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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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TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)

Thickness mm	Yield Strength/Proof Strength & Tensile Strength MPa												
	580	590	600	610	620	630	640	650	660	670	680	690	700
1													

Key yield strength tensile strength

Thickness mm	Total Elongation (%)							
	6	7	8	9	10	11	12	13
1								

FABRICATING PERFORMANCE		TYPICAL CHEMICAL COMPOSITION OF STEEL BASE	
Method	Rating		%
Bending	1	Carbon (C)	0.035 - 0.070
Drawing	NR	Phosphorus (P)	0.00 - 0.02
Pressing	NR	Manganese (Mn)	0.20 - 0.30
Roll-Forming	3	Sulphur (S)	0.00 - 0.02
Welding (design must allow for some strength reduction near welds)	5	Silicon (Si)	0.00 - 0.02
Painting (Pretreatment)	5	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.

GALVSPAN® is a registered trade mark of BHP Steel (JLA) Pty Ltd.

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