

Data Sheet

G300

Metal-Coated – GALVSTEEL[™]

Revision: 31/01/2012

GENERAL DESCRIPTION

GALVSTEEL™ G300 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 300MPa with good ductility. Suitable for roll forming to a minimum internal diameter of 1t.

APPLICATIONS

- Roll-formed sections
- House framing
- Nail plates

STANDARDS

- AS 1397:2011
- AS/NZS 1365:1996

	≤0.6mm	>0.6mm	≤0.60mm	>0.60mm			
CHEMICAL COMPOSITION	TYPICA	L (wt %)	EXPECTED MAXIMUM (wt %) ^[1]				
Carbon (C)	0.035 - 0.070	0.06 - 0.100	0.07	0.10			
Manganese (Mn)	0.14 - 0.25	0.50 - 0.70	0.25	0.70			
Sulphur (S)	0.01 - 0.02	0.00 - 0.02	0.03	0.03			
Phosphorus (P)	0.035 - 0.070	0.00 - 0.02	0.03	0.03			
Silicon (Si)	0.00 - 0.03	0.00 - 0.02	0.03	0.03			
Aluminium (Al)	0.03 - 0.07	0.03 - 0.07	0.08	0.08			

^[1] Values shown refer to relevant Australian/ New Zealand standards unless tighter internal limits are applied

MECHANICAL PROPERTIES	EXPECTED MINIMUM					
Yield strength, MPa	300					
Tensile strength, MPa	340					
Elongation,	20					
% on L _o = 50mm (≥0.6mm)						
180° transverse bend	1t					

COATING ADHESION - 180° BEND TEST							
COATING CLASS	GUARANTEED						
Z100	Ot						
Z200	Ot						
Z275	1t						
Z350	1t						
Z450	1t						
Z600	2t						

Other coating classes may be available by enquiry

DIMENSION CAPABILITIES								
THICKNESS RANGE (mm)	WIDTH RANGE (mm)							
0.30 - 0.32	70 – 1000*							
0.33 - 0.34	70 – 1041*							
0.35 - 0.54	70 – 1230							
0.55 - 0.59	70 – 1260							
0.60 - 0.99	70 – 1230							

*All orders in the range 0.30 - 0.34 greater widths than1000/1040mm will be accepted on a trial basis, up to the maximum width of 1230mm.

Slitting and shearing available on request from New Zealand Steel.

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to New Zealand Steel Marketing confirmation. Other dimensional combinations may be available by enquiry.

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AVAILABLE FINISHES								
NORMAL OPTIONAL								
Surface Condition	Spangled	Minimised spangle						
Surface Treatment	Passivated	Oiled						
Branding	Branded	Unbranded						

Material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion.

Mechanical properties are guaranteed at ambient/room temperatures. Please consult technical representatives at New Zealand Steel for high/low temperature use.

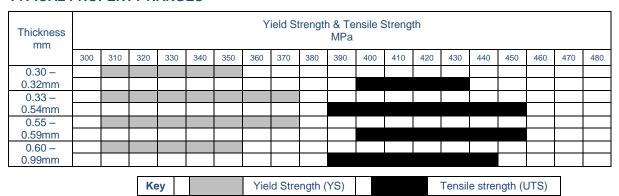
In the as-oiled state long term corrosion resistance cannot be guaranteed. Further surface treatment/coating is required.

FABRICATING PERFORMANCE 1 = Limited 5 = Excellent							
Method	Rating						
Drawing	3						
Pressing	2						
Bending	5						
Roll-forming	5						
Welding	5						
Painting (Pre-treatment)	5						

PACKING

Despatched material will be packed appropriately providing protection against weather and transit damage.

TYPICAL PROPERTY RANGES



Thickness mm		Total Elongation (%) GL= 50mm																	
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
0.30 – 0.32mm																			
0.33 – 0.54mm																			
0.55 – 0.59mm																			
0.60 – 0.99mm																			

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