

G300M

Metal-Coated − GALVSTEELTM

Revision: 31/1/2012

Data Sheet

GENERAL DESCRIPTION

GALVSTEELTM G300M steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 290MPa with good ductility. Suitable for roll forming to a minimum internal diameter of 1t.

APPLICATIONS

- Roll-formed sections
- Nail plates
- Tube making

STANDARDS

- NZ Steel Standard
- AS/NZS 1365:1996

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) [1]
Carbon (C)	0.075	0.100
Silicon (Si)	0.011	0.030
Manganese (Mn)	0.600	0.700
Sulphur (S)	0.016	0.030
Phosphorus (P)	0.013	0.030
Vanadium (V)	0.009	0.017
Nitrogen (N)	0.0055	0.0084

	1.00mm - 1.50mm	1.50mm - 1.55mm	
MECHANICAL PROPERTIES	TYP	ICAL	EXPECTED MINIMUM
Yield strength, MPa	304	302	290 min
Tensile strength, MPa	420	409	340 min
Elongation, % on L ₀ = 50mm	34	35	20 min
180° transverse bend	1t	1t	1t

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

GALVSTEEL™ is a trademark of New Zealand Steel Limited.

New Zealand Steel Limited

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A BlueScope Steel Company

FABRICATING PERFORMANCE 1 = Limited 5 = Excellent							
Method Rating							
Drawing	5						
Pressing	3						
Bending	4						
Roll-forming	5						
Welding	5						
Painting (Pre-treatment)	5						

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

Other coating classes may be available by enquiry

DIMENSION CAPABILITIES							
THICKNESS (mm)	WIDTH RANGE (mm)						
1.00 - 1.55	70 - 1230						

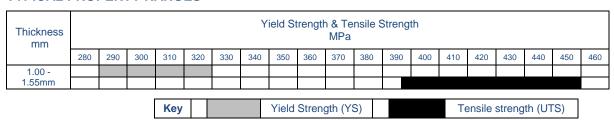
These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to New Zealand Steel Marketing confirmation. Other dimensional combinations may be available by enquiry.

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

PACKING

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

TYPICAL PROPERTY RANGES



Thickness mm		Total Elongation (%)																
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
1.00 - 1.55mm																		
Key GL= 50mm GL= 80mm																		

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