



Data Sheet

G300M

Metal-Coated – GALVSTEEL™

Revision: 31/1/2012

GENERAL DESCRIPTION

GALVSTEEL™ 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

MECHANICAL PROPERTIES	TYPICAL		EXPECTED MINIMUM
	1.00mm - 1.50mm	1.50mm - 1.55mm	
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.

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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	0t
Z200	0t
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	Yield Strength & Tensile Strength MPa																		
	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460
1.00 - 1.55mm																			

Key		Yield Strength (YS)		Tensile strength (UTS)
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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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