

Data Sheet

# Metal-Coated – GALVSTEEL<sup>™</sup>

## Revision: 7/12/2021

G300M

## **GENERAL DESCRIPTION**

GALVSTEEL<sup>TM</sup> 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**

- NZSteel Standard
- AS/NZS 1365:1996

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) <sup>[1]</sup>				
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	ТҮР	ICAL	EXPECTED MINIMUM
Yield strength, MPa	304	302	290
Tensile strength, MPa	420	409	340
Elongation, % on L₀= 50mm	34	35	20
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<sup>™</sup> is a trademark of New Zealand Steel Limited.

## 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					

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.

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

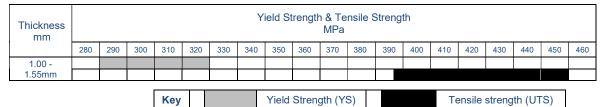
Other coating classes may be available by enquiry

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		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	.= 80m	ım			

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