



Data Sheet

# G300

## Metal-Coated – GALVSTEEL™

Revision: 31/01/2012

MC

### 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

CHEMICAL COMPOSITION	≤0.6mm	>0.6mm	≤0.60mm	>0.60mm
	TYPICAL (wt %)		EXPECTED MAXIMUM (wt %) <sup>[1]</sup>	
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

<sup>[1]</sup> 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, % on L <sub>0</sub> = 50mm (≥0.6mm)	20
180° transverse bend	1t

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 than 1000/1040mm 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.**

COATING ADHESION - 180° BEND TEST	
COATING CLASS	GUARANTEED
Z100	0t
Z200	0t
Z275	1t
Z350	1t
Z450	1t
Z600	2t

Other coating classes may be available by enquiry

GALVSTEEL™ is a trademark of New Zealand Steel Limited.

## New Zealand Steel Limited

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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	Yield Strength & Tensile Strength MPa																		
	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480
0.30 – 0.32mm																			
0.33 – 0.54mm																			
0.55 – 0.59mm																			
0.60 – 0.99mm																			

<b>Key</b>		Yield Strength (YS)		Tensile strength (UTS)
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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																			
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