



Data Sheet

**G250****Metal-Coated – GALVSTEEL™**

Revision: 25/07/2016

**GENERAL DESCRIPTION**

GALVSTEEL™ G250 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 250MPa with good ductility. Suitable for severe roll forming.

**APPLICATIONS**

- Roofing
- Cladding
- General manufacturing
- Roll-formed structural sections
- Pressing

**STANDARDS**

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

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) <sup>[1]</sup>
Carbon (C)	0.035 – 0.070	0.07
Phosphorus (P)	0.01 – 0.02	0.03
Manganese (Mn)	0.14 – 0.25	0.25
Sulphur (S)	0.01 – 0.02	0.03
Silicon (Si)	0.00 – 0.03	0.03
Aluminium (Al)	0.03 – 0.07	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	250
Tensile strength, MPa	320
Elongation, % on L <sub>0</sub> = 50mm (>0.6mm)	25
180° transverse bend (L axis)	0t

Typical Mechanical Properties are based on typical product dispatched to customers. Note that ductility will decline through a natural aging process during storage and/or paint stoving cycle.

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

GALVSTEEL™ is a trademark of New Zealand Steel Limited.

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AVAILABLE FINISHES		
	NORMAL	OPTIONAL
Surface Condition	Spangled	
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.

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

Other coating classes may be available by enquiry

DIMENSION CAPABILITIES	
THICKNESS RANGE (mm)	WIDTH RANGE (mm)
0.30 – 0.33	70 – 1000*
0.34	70 – 1040*
0.35 – 0.36	70 – 1230
0.37 – 1.48	70 – 1250
1.49 – 1.55	70 – 1230
1.56 – 1.85	70 – 1230
1.86 – 2.00	70 – 1220

\*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.

### TYPICAL PROPERTY RANGES

Thickness mm	Yield Strength & Tensile Strength MPa																		
	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440
0.30																			
0.55																			
0.75																			
0.95																			
1.15																			
2.00																			

<b>Key</b>		Yield Strength (YS)		Tensile strength (UTS)
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Thickness mm	Total Elongation (%)																		
	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
0.30																			
0.55																			
0.75																			
0.95																			
1.15																			
2.00																			

<b>Key</b>		GL= 50mm		GL= 80mm
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