



Data Sheet

G310

Metal-Coated – GALVSTEEL™

Revision: 31/1/2012

MC

GENERAL DESCRIPTION

GALVSTEEL™ G310 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 310MPa.

APPLICATIONS

- Tubing
- Beams

STANDARDS

- NZ Steel Standard
- AS/NZS 1365:1996

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) ^[1]
Carbon (C)	0.170	0.194
Silicon (Si)	0.011	0.030
Manganese (Mn)	0.600	0.700
Sulphur (S)	0.015	0.030
Phosphorus (P)	0.013	0.030
Nitrogen (N)	0.005	0.0084

MECHANICAL PROPERTIES	TYPICAL			EXPECTED MINIMUM
	1.15mm	1.55mm	1.85mm	
Yield strength, MPa	338	342	318	310 min
Tensile strength, MPa	470	460	469	340 min
Elongation, % on L ₀ = 50mm	30	40	35	20 min
180° transverse bend	1t	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.

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

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

GALVSTEEL™ is a trademark of New Zealand Steel Limited.

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AVAILABLE FORMS
Coil
Sheet

DIMENSION CAPABILITIES	
THICKNESS (mm)	WIDTH RANGE (mm)
0.95 – 1.55	70 – 1230
1.56 – 1.85	70 – 1100

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.

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	490	500
0.95 – 1.55mm																					
1.56 – 1.85mm																					

Key		Yield Strength (YS)		Tensile strength (UTS)
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Thickness mm	Total Elongation (%)																				
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
0.95 – 1.55mm																					
1.56 – 1.85mm																					

Key		GL= 50mm		GL= 80mm
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