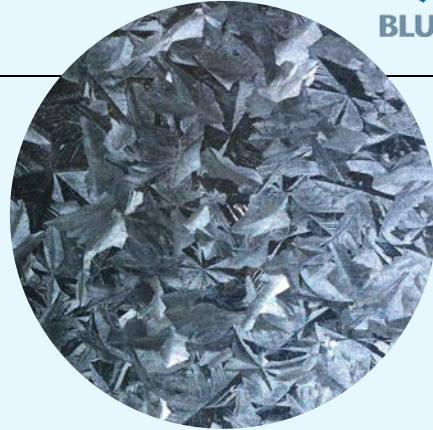


Coated Steel – Metallic

Data Sheet



December 2017. This literature supersedes all previous issues



ZINC HI-TEN[®] steel

G550 / G550S

General Description

ZINC HI-TEN[®] G550 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 550MPa. Suitable for roll-forming to a 4t minimum internal diameter.

ZINC HI-TEN[®] G550S steel is skin passed to improve surface quality.

Typical uses

Roll formed decking and walling, fencing posts and rails.

Australian and International Standards

AS/NSZ 1365: 1996

AS 1397:2011

ISO 9001 Quality System certified

Guaranteed properties of steel base

Mechanical properties	Guaranteed minimum
Yield Strength, MPa (longitudinal tensile)	550
Tensile Strength, MPa (longitudinal tensile)	550
Elongation on 80mm %	2

Chemical composition of steel base

Chemical properties	Guaranteed maximum %
Carbon - C	0.20
Manganese - Mn	1.20
Phosphorus - P	0.040
Sulphur - S	0.030

Metal coating adhesion – 180° bend test

Coating class	Result
Z100	1t
Z200	2t
Z275	2t
Z450	2t
Z600	3t

Where t = the diameter of mandrel in terms of thickness of product.

Dimensional capabilities

Thickness range (mm)	Width range (mm)
0.30 – 0.319	800 - 1000
0.32 – 0.349	800 - 1100
0.35 – 0.399	800 - 1220
0.40 – 0.499	700 - 1220
0.50 – 0.699	700 - 1250
0.70 – 1.000	700 - 1525

Notes: Not every combination of thickness and width may be available. Supply conditions may be subject to dimensional restrictions and are subject to BlueScope Sales and Marketing confirmation. Slitting and shearing available on request from BlueScope Sales Offices. For requirements outside the standard product range please contact your local Sales Office. To determine maximum mill edge width available, subtract 30mm from the maximum width.

Resistance to fire

Index	Range	Result
Ignitability Index	0 - 20	0
Spread of Flame Index	0 - 10	0
Heat Evolved Index	0 - 10	0
Smoke Developed Index	0 - 10	0
National Construction Code	Non-Combustible Material *	

*According to National Construction Code, Building Code of Australia, Volume1: Part C1.12.e, and Volume 2: Part 3.7.1.2.e

Supply conditions

Attribute	Normal	Optional
Coating Class	Z275	Z200, Z450, Z600
Surface Finish	Spangled	-
Surface Treatment	Passivated	-
Branding	Branded	-
Tolerance - Dimensions	Class A	Class B
Tolerance - Flatness	Class A	-

Important Notes: Optional supply conditions may be subject to dimensional restrictions

Fabricating performance

Method	Rating
Bending	1
Drawing	NR
Pressing	NR
Roll Forming	3
Welding (design must allow for some strength reduction near welds)	5
Painting Pre-treatment	5

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended. The ratings in this table are general indicators only, given as a guide to fabricating performance.

Important information

Skin-passing will generally give a marginally higher yield strength and marginally reduced % elongation. Material should be used promptly (within 6 months) to avoid the possibility of a storage related corrosion. For selection of the most appropriate metallic coated steel, please refer to technical bulletins TB1a, TB1b, CTB21 and CTB22. For storage, rollforming lubricants and other information please refer to the Technical Bulletins.

steel.com.au

To learn more about this product

1800 064 384

For more information call Steel Direct



The information contained in this datasheet is provided by way of general information about this product only, and has not been prepared with your specific needs in mind. We recommend that you seek BlueScope's advice as to the suitability of this product for the purpose(s) for which you propose to use it. To contact BlueScope for advice about your proposed use of this product, please contact Steel Direct. ZINC HI-TEN®, BlueScope and the BlueScope brand mark are registered trade marks of BlueScope Steel Limited.

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