

ZINCFORM[®] steel

G350

General description

ZINCFORM[®] steel G350 is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 350MPa, with good ductility. Suitable for rollforming to a minimum internal diameter of 2t.

Typical uses

Rollformed structural sections.

Australian and International Standards

AS/NZS 1365:1996 (R2016)

AS 1397:2021

ISO 9001:2015 Quality System certified

Guaranteed properties of steel base

Mechanical properties	Guaranteed minimum
Yield Strength, MPa (longitudinal tensile)	350
Tensile Strength, MPa (longitudinal tensile)	420
Elongation on 80mm ($\geq 0.60\text{mm}$) %	14
180° Transverse Bend	2t

Chemical composition of steel base

Chemical properties	Guaranteed maximum %
Carbon – C	0.30
Manganese – Mn	1.60
Phosphorus – P	0.100
Sulphur – S	0.035

Metal coating adhesion – 180° bend test

Coating class	Result
Z100, Z200	0t
Z275, Z350, Z450	1t
Z600	2t

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

Dimensional capabilities

Thickness range (mm)	Max width (mm)
0.400 – 0.450	1100
0.451 – 1.150	1350
1.450 – 2.500	1250
2.501 – 3.000	1225

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.

Fire hazard properties

Test & Evaluation Methods	Range	Result
Simultaneous determination of ignitability, flame propagation, heat release and smoke release (AS/NZS 1530.3:1999 (R2016)) *	Ignitability Index (0 – 20)	0
	Spread of Flame Index (0 – 10)	0
	Heat Evolved Index (0 – 10)	0
	Smoke Developed Index (0 – 10)	2
NCC non-combustible material (NCC 2022)	National Construction Code, Building Code of Australia 2022; Volume 1 Part C1, C2D10, (5)	Non-combustible
NCC non-combustible material concessions (NCC 2022; AS/NZS 1530.3:1999 (R2016)) *	National Construction Code, Building Code of Australia 2022: Volume 2: Section H, Part H3, H3D2, (1)(e)	May be used wherever a non-combustible material is required
	AS/NZS 1530.3:1999 (R2016)	
Combustibility test for materials (steel substrate) (AS 1530.1-1994 (R2016)) #	AS 1530.1-1994 (R2016)	Not deemed combustible (steel substrate)

* The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

Supply conditions

Attribute	Normal	Optional
Coating Class	Z275	Z200, Z350, Z450, Z600
Surface Condition	Spangled	Minimised Spangle
Surface Treatment	Passivated	-
Branding	Branded	-
Tolerance – Dimensions	Class A	Class B
Tolerance – Flatness	Class A	Class B

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

Fabricating performance

Method	Rating
Bending	3
Drawing	2
Pressing	2
Rollforming	3
Lock Forming	-
Welding	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

Material should be used promptly (within six 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

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For more information contact 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 Steel Limited's advice as to the suitability of this product for the purpose(s) for which you propose to use it. To contact BlueScope Steel Limited for advice about your proposed use of this product, please contact Steel Direct. ZINCFORM®, BlueScope and the BlueScope brand mark are registered trade marks of BlueScope Steel Limited. © 2023 BlueScope Steel Limited ABN 16 000 011 058. All rights reserved.