

TRUECORE[®] steel

with Activate[®] technology

G550

General description

TRUECORE[®] steel G550 with Activate[®] technology is a hot-dipped aluminium/zinc/magnesium alloy-coated structural steel with a guaranteed minimum yield strength of 550MPa, manufactured using a blue tinted resin. It is designed for the residential house and commercial framing markets.

Typical uses

Structural residential house framing, structural commercial framing.

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)	550
Tensile Strength, MPa (longitudinal tensile)	550
Elongation on 80mm (≥ 0.60 mm) %	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
AM150	2t

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

Dimensional capabilities

Thickness range (mm)	Max width (mm)
0.42 – 1.00	1220

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)	0-1
NCC non-combustible material concessions (NCC 2022; AS/NZS 1530.3:1999 (R2016)) *	National Construction Code, Building Code of Australia 2022; Volume 1 Part C1, C2D10, (5) and (6)(e) and Volume 2: Section H, Part H3, H3D2, (1)(e) AS/NZS 1530.3:1999 (R2016)	May be used wherever a non-combustible material is required

* 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.

Supply conditions

Attribute	Normal	Optional
Coating Class	AM150	-
Surface Condition	Spangled	-
Surface Treatment	Passivated & Resin coated	-
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
Rollforming	3
Lock Forming	NR
Welding (design must allow for some strength reduction near welds)	4
Painting Pre-treatment	NR

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.

Truecore[®]

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For more information contact Steel Direct



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