

TRUECORE® G550 steel with Activate™ technology

Revision 1 January 2014

This literature supersedes all previous issues



Metallic Coated - MC

Structural - S

GENERAL DESCRIPTION

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

TYPICAL USES

Residential house framing where the product is not visible.

AUSTRALIAN STANDARDS

AS/NZS 1365:1996 1

AS 1397-2011

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED MINIMUM
Longitudinal Tensile	
Yield Strength, MPa	550
Tensile Strength, MPa	550
Elongation on 80mm (\geq 0.60mm), %	2

CHEMICAL COMPOSITION OF STEEL BASE

CHEMICAL PROPERTIES	GUARANTEED MAX %
Carbon - C	0.2
Phosphorus - P	0.04
Manganese - Mn	1.2
Sulphur - S	0.03

METAL COATING ADHESION - 180° BEND TEST

COATING CLASS	
AM150	2t

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

FIRE HAZARD PROPERTIES

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	0-1

DIMENSIONAL CAPABILITIES

THICKNESS RANGES (mm)	PRODUCT	MAX. WIDTH MM
0.42 - 1.00		1200

Notes: These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Steel Sales and Marketing confirmation.

Slitting and shearing available on request from BlueScope Steel Sales Offices.

For requirements outside the standard product range please contact your local Sales Office.

NORMAL/OPTIONAL SUPPLY CONDITIONS

	NORMAL	OPTIONAL
Coating Class	AM150	
Surface Condition	Spangled	
Surface Treatment	Passivated/ Resin coated	
Branding	Branded	
Tolerance Class		
Dimensions	Class A	Class B
Flatness	Class A	

Important Notes

Optional supply conditions may be subject to dimensional restrictions

Australia 1800 800 789

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Please ensure you have the current data sheet for this product as displayed at steelproducts.bluescopesteel.com.au



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FABRICATING PERFORMANCE

METHOD	RATING	METHOD	RATING
Bending	1	Lock Forming	NR
Drawing	NR	Welding	4
Pressing	NR	Painting Pretreatment	-
Roll Forming	3		

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended

TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)

Yield Strength (MPa)		
	Minimum	Maximum
0.42	710	790
0.55	690	770
0.75	630	710
1.0	600	640

Tensile Strength (MPa)		
	Minimum	Maximum
0.42	710	790
0.55	650	710
0.75	650	710
1.0	620	660

Total Elongation on 80mm (%)		
	Minimum	Maximum
0.42	0	3
0.55	0	4
0.75	4	8
1.0	10	14

IMPORTANT INFORMATION

Typical mechanical properties are based on typical product despatched to customers. Note that ductility will decline through a natural ageing process during storage and/or paint stoving cycle.

Prolonged exposure to UV Light (> 6 months) will cause the specially designed resin coating to degrade and breakdown. Degradation will not be uniform in nature and will compromise the aesthetic performance of the product.

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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.

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