# TRUECORE® G550 Steel

Revision 5

September 2021

This literature supersedes all previous issues



# **Metallic Coated - MC**

## **GENERAL DESCRIPTION**

TRUECORE® steel is a continuous hot-dipped aluminium/zinc alloycoated structural steel with a guaranteed minimum yield strength of 550MPa, manufactured using a blue-tinted resin.

# Structural - S

#### TYPICAL USES

Structural steel building frame where the product is not visible. For material selection advice, please contact your nearest BlueScope

#### **AUSTRALIAN STANDARD**

AS 1397

#### MALAYSIAN STANDARD

MS 1196

#### **GUARANTEED PROPERTIES OF STEEL BASE**

GUARANTEED MINIMUM ONGITUDINAL TENSILE)
550
570
2

## CHEMICAL COMPOSITION OF STEEL BASE

CHEMICAL PROPERTIES	GUARANTEED MAX %
Carbon – C	0.20
Manganese – Mn	1.20
Phosphorus – P	0.035
Sulphur – S	0.030

## **METAL COATING ADHESION - 180° BEND TEST**

COATING CLASS	
AZ150	2t

#### Notes

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

## FIRE HAZARD PROPERTIES - AS/NZS1530.3

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\***

PREFERRED BASE METAL THICKNESS, mm	MAXIMUM WIDTH, mm
0.42**, 0.45, 0.48, 0.50, 0.55, 0.60, 0.70, 0.75, 0.80, 1.00, 1.20	1219

#### Notes

# NORMAL/OPTIONAL SUPPLY CONDITIONS

	NORMAL
Coating Class	AZ150
Surface Condition	Spangled
Surface Treatment	Passivated & Resin Coated
Branding	Branded
Dimensions Tolerance*	Class A
Flatness Tolerance*	Class A

# Optional supply conditions may be subject to dimensional restrictions.

<sup>\*</sup> 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.
\*\* In slit form.

<sup>\*</sup> The dimensional tolerances for thickness, width flatness and camber shall be in accordance with the requirements of AS/NZS 1365.

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# **FABRICATING PERFORMANCE**

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

#### Notes

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

#### IMPORTANT INFORMATION

- Spangle variance from coil to coil is an inherent characteristic of metallic alloy coating process and will not affect the performance of 1. the product. It is therefore not a cause for rejection.
- 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.
- Material should be used promptly (within six months) to avoid the possibility of a storage related corrosion. Roll-forming mark does not affect the performance of TRUECORE® steel. For selection of the most appropriate metallic coated steel, please refer to technical bulletins TB1a, TB1b, CTB21 and CTB22. For storage, roll-forming lubricants and other information, please refer to the Technical Bulletins.
- 4. We recommend storage in bore vertical orientation to prevent coil slump. If you wish to know more about the consequence of coil slump, please refer to our Fact Sheet 2, link: https://www.nsbluescope.com/my/wp-content/uploads/sites/7/2020/10/Fact-Sheet-Coil-Slump.pdf.
- Use of aged coil might lead to quality issue during roll-forming process. To determine if warranties apply for aged coil, please contact your nearest BlueScope sales office for advice.

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<sup>\*</sup> Welding design must allow for some strength reduction near welds