

Revision 2 April 2013

This literature supersedes all previous issues.

GENERAL DESCRIPTION

TRUECORE® steel is a hot-dipped zinc/aluminum alloy-coated structural steel with a regular blue tinted resin spangle surface and a guaranteed minimum yield strength of 550MPa with limited ductility.

TYPICAL USES

Steel house frames and trusses where the product is not visible. For material selection advice, please contact your nearest BlueScope Ssales office.

AUSTRALIAN STANDARD MALAYSIAN STANDARD MS 1196

AS 1397

DIMENSIONS: (For normal supply product)

Preferred base metal thickness (BMT), mm*	Strip width range, mm			
0.45, 0.48, 0.50, 0.55	610 - 1219			
0.60, 0.70, 0.75	610 - 1219			
0.80, 0.90, 1.00,1.20	610 - 1219			
*Any other sizes may be available on request				

MECHANICAL PROPERTIES	8		
Steel base	Guara	Guaranteed	
	(0.42mm)	(> 0.60mm)	(0.42 mm thick)
Longitudinal tensile			
Yield strength, MPa	550 min	550 min	680 - 740
Tensile strength, MPa	550 min	550 min	680 - 740
Elong on 50 mm, %	_	2 min	1 - 6
Hardness, HR30T	_	_	75 - 85
180° transverse bend			
(Laxis)	_	_	_

^{*} Typical mechanical properties are based on aggregation of \bar{x} and 2SD performance.

CHEMICAL COMPOSITION OF STEEL BASE				
Guaranteed maximum	%			
Carbon (C)	0.20			
Phosphorus (P)	0.04			
Manganese (Mn)	1.20			
Sulphur (S)	0.03			
Typical %				
Carbon (C)	0.035 - 0.070			
Phosphorus (P)	0.00 - 0.02			
Manganese (Mn)	0.20 - 0.30			
Sulphur (S)	0.00 - 0.02			
Silicon (Si)	0.00 - 0.02			
Aluminium (AI)	0.02 - 0.07			
Nitrogen (N)	0.000 - 0.008			

SUPPLY CONDITION		
	Normal	
Coating Class	AZ150	
Surface Finish	Spangled	
Surface Treatment	Passivated/	
	Resin Coated	
Tolerance class AS/NZS 1365*		
Thickness	Class A	
Width	Class A	
Flatness	Class A	
Branding	Branded	

Method	Rating	
Bending	2	
Drawing	NR	
Pressing	NR	
Roll-forming	3	
Welding	4*	
Painting (pretreatment)	5	
Where 1 = limited to 5 = excellent, or NR = not recommended		
* Welding design must allow for some strength		

FABRICATING PERFORMANCE

reduction near welds

* The dimensional tolerances for thickness, width, flatness and camber shall be in accordance with the requirements of AS 1365.

Note: 1. Customers should use this product promptly (within 6 months) to avoid the possibility of storage related corrosion.

2. Rollforming mark does not affect the performance of TRUECORE® steel.

Please ensure you have the current data sheet for this product.

