

Metallic Coated Structural DECKFORM® G550 Steel

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Revision 3, October 2006

This literature supersedes all previous issues.

GENERAL DESCRIPTION DECKFORM® G550 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 550 MPa. Suitable for roll-forming to a 4t minimum internal diameter.	TYPICAL USES Structural Decking
	AUSTRALIAN STANDARDS AS/NZS 1365:1996 AS 1397:2001

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED
Longitudinal Tensile Yield Strength, MPa	550 min
Tensile Strength, Mpa	550 min
Elongation on 80mm (>=0.6mm) %	2 min
180° transverse bend (L axis)	-
Pittsburgh lock-seam (<=1.6mm)	-

CHEMICAL COMPOSITION OF STEEL BASE

CHEMICAL PROPERTIES	GUARANTEED %	TYPICAL %
	Maximum	
Carbon - C	0.20	0.035-0.070
Phosphorus - P	0.04	0.00-0.02
Manganese - Mn	1.20	0.20-0.30
Silicon - Si	-	0.00-0.02
Sulphur - S	0.03	0.00-0.02
Aluminium - Al	-	0.02-0.07
Titanium - Ti	-	-
Nitrogen - N	-	0.000-0.008

METAL COATING ADHESION - 180° BEND Test

COATING CLASS	GUARANTEED
Z350	2t
Z450	2t

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

DIMENSIONAL CAPABILITIES

The standard sizes of DECKFORM® G550 Steel are:

0.6 x 990mm
 0.75 x 860mm, 0.75 x 990mm
 0.9 x 860mm, 0.9 x 990mm
 1.0 x 860mm, 1.0 x 990mm

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

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

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.

NORMAL/OPTIONAL SUPPLY CONDITIONS			FABRICATING PERFORMANCE	
Coating Class	Normal Z350	Optional# Z450	Method	Rating
		-	Bending	1
		-	Drawing	NR
		-	Pressing	NR
Surface Finish	Spangled	-	Roll Forming	3
Surface Treatment	Passivated	-	Welding	5
		-	Painting (Pretreatment)	5
Tolerance Class				
Thickness	A Class	-		
Width		-		
Length		-		
Flatness	A Class	-		
Branding	Branded	-		
# Optional supply conditions may be subject to dimensional restrictions			* Welding design must allow for some strength reduction near welds.	
			Where: 1 = Limited to 5 = Excellent or NR = Not Recommended	

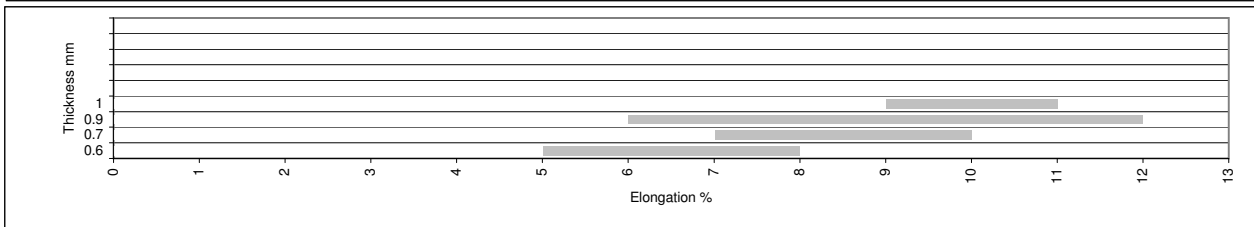
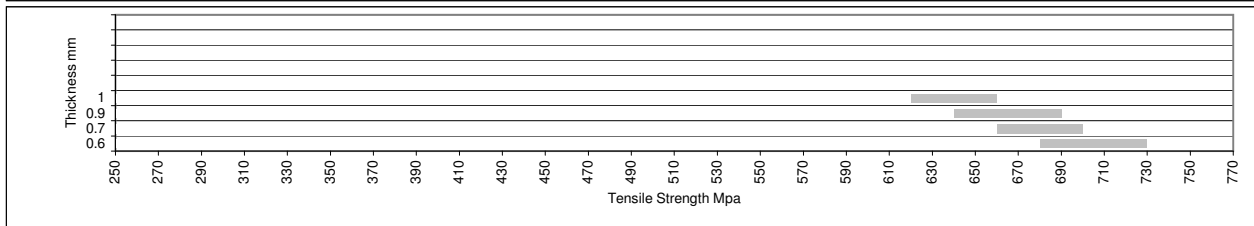
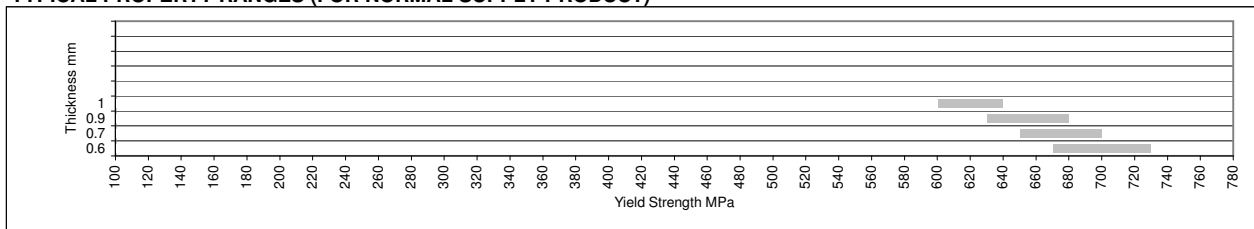
Important Notes:

Material should be used promptly (within six months) to avoid the possibility of a storage related phenomena of galvanised coatings termed intergranular 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.

Supply conditions may be subject to dimensional restrictions and is subject to Bluescope Steel Sales and Marketing confirmation



TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)



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Please ensure you have the current datasheet for this product as displayed at www.bluescopesteel.com



BlueScope Steel Limited

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