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 Stength, MPa Tensile Strength, Mpa	550 min 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 COMPOSITION OF STEEL BASE			
CHEMICAL	GUARANTEED	TYPICAL	
PROPERTIES	%	%	
	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.

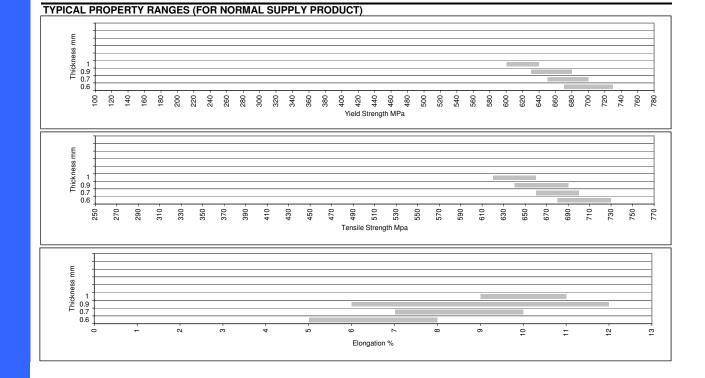
These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Steel Sales and Marketing confirmation.

NORMAL/OPTIONA	L SUPPLY COND	ITIONS	FABRICATING PERFORMANCE	
	Normal	Optional#	Method	Rating
Coating Class	Z350	Z450	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	-	* Welding design must allow for some strength reduction near welds.	
Branding	Branded	-		
# Optional supply condition	s may be subject to dim	ensional restrictions	Where: 1 = Limited to 5 = Excellent or NR = Not Recomended	



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 othe information please refer to the Technical Bulletins.





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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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