# Metallic Coated **Structural** ZINCFORM® G250 steel G250S steel

Revision 8. November 2003 This literature supersedes all previous issues

#### **GENERAL DESCRIPTION**

ZINCFORM® G250 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 250 MPa, with good ductility. Suitable for severe roll-forming.

ZINCFORM® G250S steel is skinpassed to improve surface quality. This skinpassed product is only available up to 2mm thick.

#### **TYPICAL USES**

Roll-formed structural sections.

### **AUSTRALIAN STANDARDS**

AS 1365 AS 1397:2001

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

MECHANICAL PROPERTIES	GUARANTEED MINIMUM
Yield Strength, MPa	250
Tensile Strength, MPa	320
Elongation on 80mm (≥ 0.60 mm) %	22
180° transverse bend (L axis)	Ot

Note – tensiles tested in longitudinal direction

#### Phosphorus (P) 0.03 0.50 Manganese (Mn) 0.035 Sulphur (S)

GUARANTEED MAXIMUM %

0.12

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

COATING CLASS	GUARANTEED
Z100	Ot
Z200	Ot
Z275	Ot
Z450	1t
Z600	2t

#### FIRE HAZARD PROPERTIES

CHEMICAL **PROPERTIES** 

Carbon (C)

IGNITABILITY INDEX	(range 0-20)	0
SPREAD OF FLAME INDEX	(range 0-10)	0
HEAT EVOLVED INDEX	(range 0-10)	0
SMOKE DEVELOPED INDEX	(range 0-10)	0

# **DIMENSIONAL CAPABILITIES**

Thickness Ranges mm	М	ax. Width mm
> 0.80 ≤ 1.90	G250, G250S	1485
> 1.90 ≤ 2.00	G250, G250S	1400
> 2.00 ≤ 3.20	G250	1220

Slitting and shearing available on request from BlueScope Steel sales offices. Thicknesses over 3.20 mm may be available on

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** Normal

Ontional

	Normai	Optional
Coating Class	Z275	Z200,
		Z450, Z600
Surface Condition	Spangled	Minimised spangle
Surface Treatment	Passivated	_
Tolerance Class		
Dimensions	A Class	B Class
Flatness	A Class	B Class
Branding	Branded	_

### **Important Notes**

Material should be used promptly (within 6 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 lubricant and other information please refer to the Technical Bulletins.

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

#### **BlueScope Steel Limited**

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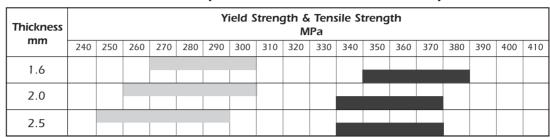
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# TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)





Thickness	Total Elongation on 80mm (%)															
mm	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1.6																
2.0																
2.5																

FABRICATING PERFORMANCE		TYPICAL CHEMICAL COMPOSITION OF STEEL BASE				
			%			
Method	Rating	Carbon (C)	0.035 - 0.070			
Bending	5	Phosphorus (P)	0.00 - 0.02			
Drawing	3	Manganese (Mn)	0.20 - 0.30			
Pressing	2	Sulphur (S)	0.00 - 0.02			
Roll-Forming	5	Silicon (Si)	0.00 - 0.02			
Welding	5	Aluminium (AI)	0.02 - 0.07			
Painting (Pretreatment)	5	Nitrogen (N)	0.000 - 0.008			

where 1 = limited to 5 = excellent, or NR = not recommended

# **IMPORTANT NOTES:**

- Typical Mechanical Properties are based on typical product dispatched to customers. Note that ductility will decline through a natural aging process during storage and/or paint stoving cycle.
- The Skin-Passing of ZINCFORM® G250 steel will generally give a marginally higher yield strength and marginally reduced % elongation.

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