



Australian Manufacturing Markets

# ZINCFORM<sup>®</sup> ASTM A653 Grade 50/1

Export Market Offer - Revision 1, March 13<sup>th</sup>, 2009

This literature supersedes all previous issues

## General Description :

ZINCFORM<sup>®</sup> ASTM A653 grades are a hot-dipped zinc coated structural steel with a regular spangle surface and guaranteed minimum yield strengths → 340 MPa for Grade 50 Class 1.

## Typical End Uses :

Roll-formed Decking, Cladding, Purlins and Girts, Panel, Structural Sections

## Relevant Standard :

American Society for Testing & Materials → ASTM A 653M Grade 50 Class 1

## Thick / Width Envelope :

### ZINCFORM<sup>®</sup> ASTM A653 Grade 50/1 Z275

Thickness Range (BMT, mm)	Available Width (mm)
0.400 - 0.450	630 - 1320
0.451 - 0.600	630 - 1380
0.601 - 1.000	630 - 1350
1.001 - 1.500	630 - 1220

## Normal / Optional Supply Conditions :

	Normal	Optional
Coating Mass	Z275	-
Surface Condition	Regular Spangle	-
Surface Treatment	Passivated	Unpassivated
Tolerance Class		
Thickness	A Class	B Class
Width / Length	A Class	B Class
Flatness	A Class	B Class
Oiling	Not Oiled	Oiled
Branding	Branded	Not Branded
Skin Passing	Not Skin Passed	Skin Passed

## Mechanical Properties of Steel Base :

Property	Guaranteed (min)	Typical (based on 0.90mmBMT)
<i>Longitudinal Tensile</i>		
▪ Yield Strength (MPa)	340	360 – 430
▪ Tensile Strength (MPa)	450	460 – 530
▪ Elongation (%) on 50mm (≥ 0.60mm)	12	27 – 35
80mm (≥ 0.60mm)	11	
<i>Coating Adhesion:</i>	-	2t
180° transverse bend		(T Axis)

## Important Notes :

- Widths greater than 1220mm are only available from Western Port Works. Thicknesses greater than 1.0mm are only available from Port Kembla Works
- Optional supply conditions may be subject to dimensional restrictions and is subject to Works confirmation.
- The Skin-Passing of ZINCFORM<sup>®</sup> will give a marginally higher yield strength and marginally reduced % elongation.
- The ductility will decline through a natural ageing process during storage and/or paint stoving cycle
- Material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion.

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