



Australian Manufacturing Markets

# ZINCFORM<sup>®</sup> ASTM A653 Grade 37

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 → 255 MPa for Grade 37.

## Typical End Uses :

General Manufacturing, Ducting, Heating, Ventilation, Air-conditioning, Service Centre Stock

## Relevant Standard :

American Society for Testing & Materials → ASTM A 653M Grade 37

## Thick / Width Envelope :

### ZINCFORM<sup>®</sup> ASTM A653 Grade 37 Z275

Thickness Range (BMT, mm)	Available Width (mm)
0.300 - 0.319	630 - 1070
0.320 - 0.349	630 - 1100
0.350 - 0.399	630 - 1220
0.400 - 0.450	630 - 1320
0.451 - 0.457	630 - 1485
0.458 - 0.507	630 - 1510
0.508 - 1.600	630 - 1525
1.601 - 3.200	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)	255	280 – 310
▪ Tensile Strength (MPa)	360	360 – 390
▪ Elongation (%) on 50mm (≥ 0.60mm)	18	
80mm (≥ 0.60mm)	16	33 – 40
<i>Coating Adhesion:</i>	2t	0t
180° transverse bend	(internal diameter)	(T Axis)

## Important Notes :

- Widths greater than 1220mm are only available from Western Port Works. Thicknesses greater than 1.60mm 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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