



Australian Manufacturing Markets

ZINCALUME® ASTM A792 Grade 50A and 50B

Export Market Offer - Revision 1, March 13th, 2009

This literature supersedes all previous issues

General Description :

ZINCALUME® ASTM A792 grades are a hot-dipped zinc/aluminium alloy - coated structural steel with a regular spangle surface and guaranteed minimum yield strengths → 345 MPa for Grade 50A and 50B

Typical End Uses :

Roll-formed Decking, Cladding, Roofing, Rainwater Goods, Architectural Panels

Relevant Standard :

American Society for Testing & Materials → ASTM A 792M Grade 50 Class1 and Grade 50 Class 2

Thick / Width Envelope :

ZINCALUME® ASTM A792 Grade 50A and 50B AZ150

Thickness Range (BMT, mm)	Available Width (mm)
0.300 - 0.349	610 - 1100
0.350 - 0.379	610 - 1220
0.380 - 0.399	610 - 1235
0.400 - 0.800	610 - 1280
0.801 - 1.000	610 - 1235

Normal / Optional Supply Conditions :

	Normal	Optional
Coating Mass	AZ150	AZ185
Surface Condition	Regular Spangle	-
Surface Treatment	Passivated	Unpassivated
Resin Coated	Yes	No
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 :

Properties	Grade 50A		Grade 50B	
	Guaranteed (Min)	Typical (based on 0.42mmBMT)	Guaranteed (Min)	Typical (based on 0.42mmBMT)
<i>Longitudinal Tensile</i>				
▪ Yield Strength (MPa)	345	430 - 500	345	350 - 460
▪ Tensile Strength (MPa)	450	520 - 580	-	410 - 510
▪ Elongation (%) on 50mm	12		12	
80mm	11	19 - 29	11	19 - 29
<i>Coating Adhesion:</i> 180° Bend Test	-	0t (T Axis)	-	0t (T Axis)

Important Notes :

- Widths greater than 1220mm are only available from Western Port Works
- 50A only available at Western Port Works in thicknesses ≥ 0.40 mm
- Optional supply conditions may be subject to dimensional restrictions and is subject to Works confirmation.
- The Skin-Passing of ZINCALUME® 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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