

General Description:

ZINCALUME® G550 is a hot-dipped aluminium/zinc alloy - coated structural steel with a regular spangle surface and a guaranteed minimum yield strength of 550 Mpa with limited ductility. Suitable for roll forming to a minimum internal radius of 4t.

Typical End Uses:

Roll Formed Decking and Walling.

Thick / Width Envelope:

Coating → AZ150

Thickness Range (BMT)	Available Width
≥ 0.30 mm ≤ 0.32 mm	615 mm - 1100 mm
≥ 0.33 mm ≤ 0.34 mm	615 mm - 1150 mm
≥ 0.35 mm ≤ 0.39 mm	615 mm - 1220 mm
≥ 0.40 mm ≤ 0.60 mm	615 mm - 1235 mm
≥ 0.61 mm ≤ 1.00 mm	615 mm - 1220 mm
Sweet Spot:	
0.35 mm – 0.48 mm	915 mm – 940 mm
0.35 mm – 0.45 mm	1145 mm – 1220 mm
0.50 mm – 0.75 mm	1165 mm – 1220 mm

Coating → AZ200

Thickness Range (BMT)	Available Width
≥ 0.30 mm ≤ 0.39 mm	615 mm – 1100 mm
≥ 0.40 mm ≤ 0.60 mm	615 mm – 1235 mm
≥ 0.61 mm ≤ 1.00 mm	615 mm – 1200 mm
Sweet Spot:	
≥ 0.40 mm ≤ 0.65 mm	740 mm – 940 mm

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	-
Oiling	Not Oiled	Oiled
Branding	Branded	Not Branded
Skin Passing	Not Skin Passed	Skin Passed

Relevant Standard:

Australian Standard 1397:2001 and AS 1365

Please refer to the International Grade & Coatings Comparisons Table for approximate equivalents of this product in other international standards such as ASTM, JIS and EN.

Mechanical Properties of Steel Base:

Property	Guaranteed	Typical (based on 0.75mmBMT)
<i>Longitudinal Tensile</i>		
▪ Yield Strength (Mpa)	550 min	640 – 690
▪ Tensile Strength (Mpa)	550 min	650 – 710
▪ Elongation (%) on 80mm (=0.60mm)	2 min	3 – 10

Important Notes:

- Widths greater than 1220mm are only available from Western Port Works
- Optional supply conditions may be subject to dimensional restrictions and is subject to Works confirmation.
- Oiling only available up to 0.7mm thick
- Skin-Passing to a maximum width of 1220mm. The Skin-Passing of ZINCALUME® G550 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.
- Further technical information on this product can be found in the Product Data Manuals

ZINCALUME® is a registered trademark of BlueScope Steel Limited