

Version 1, October 2014

## GENERAL DESCRIPTION

ZINCALUME® G550 and G550S steel – hot-dipped Zinc/Aluminium alloy coated structural steel with spangled surface and guaranteed minimum yield strength of 550 MPa with limited ductility. Suitable for roll forming to a minimum internal radius of 5t.

## TYPICAL USES

Roofing, walling, rainwater goods, truss and other construction applications.

## STANDARDS

Australia Standard 1397:2001, AS 1365, AS 1530

## DIMENSIONS: (For normal supply product)

### Preferred base metal thickness (mm)

0.31-0.80

### Width range (mm)

914-1219

## MECHANICAL PROPERTIES

Steel base	Guaranteed (0.42mm)	Typical* (G550) (≥ 0.60mm) (0.42 mm thickness)
Longitudinal tensile		
Yield Strength, MPa	-	680-740
Tensile Strength, MPa	≥ 550	680-780
Elongation on 80mm, %	-	1-6
Hardness, HR30T	-	75-78

### Coating adhesion - 180° bend test

Coating Class	Guaranteed	Typical*
AZ150		AZ200
Guaranteed	2t	2t

## CHEMICAL PROPERTIES

	Guaranteed maximum, %
Carbon (C)	0.20
Phosphorus (P)	0.04
Manganese (Mn)	1.20
Sulphur (S)	0.03

## FIRE HAZARD PROPERTIES

Ignitability Index	(range 0-20)	0
Spread Of Flame Index	(range 0-10)	0
Heat Involved Index	(range 0-10)	0
Smoke Developed Index	(range 0-10)	0-1

## NORMAL/OPTIONAL SUPPLY CONDITIONS

	Normal	Optional*
Coating Class	AZ150	AZ200
Surface Condition	Spangled	-
Surface Treatment	Passivated Resin coated	-
<b>Tolerance Class</b>		
Thickness	Class A	-
Width	Class A	Class B
Length	Class A	Class B
Flatness	Class A	-
Oiling	Not Oiled	-
<b>Branding</b>	Branded	Not Branded

### Important Notes:

\* Optional supply conditions and coating classes maybe subject to dimensional restrictions. Materials should be used promptly (within 6 months) to avoid the possibility of storage related corrosion.

## FABRICATION PERFORMANCE

Method	Rating
Bending	1
Drawing	NR
Pressing	NR
Roll-Forming	3
Welding (design must allow for some strength reduction near welds)	4
Painting (pretreatment)	5

**Where:** 1= limited to 5 = excellent  
or NR = not recommended

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