

## ZINCAL: Aluminium-Zinc Metal Coated Steel

**Zincal®** is the brand for coils that are manufactured using a patented Aluminum Zinc coating alloy recognized as being the most technologically advanced metallic coating in use worldwide. When used in the correct application, you can be sure of the following attributes:

- Considerable increase in service life
- Superior thermal protection
- Distinctive aesthetic value

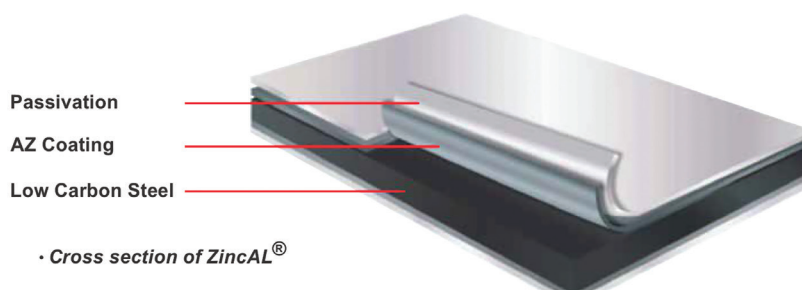


The coating alloy consists of 55% Aluminium, 43.5% Zinc & 1.5% Silicon. The aluminum component of the coating provides a tough physical barrier to protect the steel core against extreme atmospheric conditions and moisture. The zinc component has a galvanic action and builds up on cut edges to further increase corrosion protection.

Their combined action in a metallic alloy coating increases the service life of the steel core by up to 4 times that of traditional zinc galvanized steel with the same coating thickness in the same physical environment.

The extended serviceability of Zincal® makes it a cost effective and environmentally responsible choice of material.

### CROSS SECTION OF ZINCAL® MATERIAL



# Technical Specifications

ALAF Limited® produces coils of **AZ85** and **AZ100** coating in Grade G550 or G330.

Standards	Grades
A792M/192M	G550
EAS410:2008	G330

Mechanical Properties	Guaranteed Minimum	
	G550	G330
Yield strength, MPa	550	330
Tensile strength, MPa	570	400
Elongation %	2	15

## Dimensions

Base Metal Thickness (mm)	
Range	Tolerance
	Width ≤ 1200
0.2- 0.3	±0.02
0.3- 0.4	±0.03
0.4- 0.5	±0.04
0.5- 0.6	±0.05
0.6- 0.7	±0.06
0.7- 0.8	±0.07
0.8- 0.9	±0.08
0.9- 1.0	±0.10
1.0- 1.2	±0.012

\*Restricted thickness tolerance is subject to negotiation

## Coating Mass

COATING CLASS	MINIMUM AZ coating	
	Mass (g/m <sup>2</sup> )	Thickness microns
AZ85	71	19
AZ100	85	23

## Reflective Index

Total Solar Reflectance	50%
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\*Please note this may vary depending on coating weight

Coating Adhesion - 180° Bend Test

COIL WIDTH (mm)	
Range	Tolerance
762- 1220	+5/-0

Supply Conditions

Surface Condition	Spangled
Surface Treatment	PASSIVATED with Thin Organic Coating (TOC)
Flatness	EAS 410:2008
Branding	All coils are branded to allow for full traceability

## Superior Thermal Performance

Less heat transmitted into building interior, giving cooler interiors in hot climates.

