



Zincalume®

**PROVEN STRENGTH
& UNSURPASSABLE
LONG-LASTING
PERFORMANCE**



ABOUT BLUESCOPE



BlueScope's heritage of manufacturing steel products and innovations span more than 130 years and we take pride in the quality and performance of our steel solutions. All BlueScope products are tested by our technical experts under the most extreme outdoor conditions during the R&D stage to ensure that they last beyond what we promise.

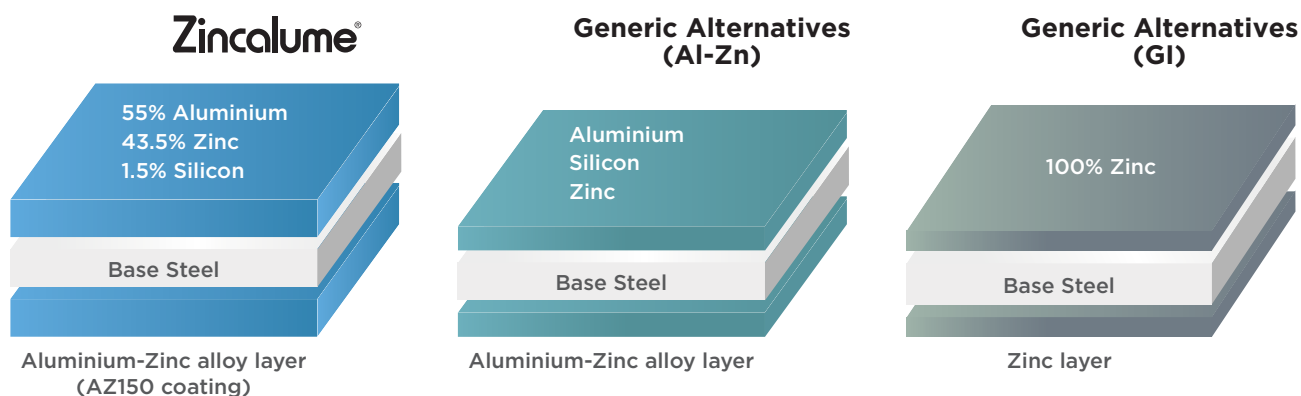
Backed by Australian technology, our steel solutions are manufactured in accordance with BlueScope's stringent manufacturing guidelines, in compliance with ISO 9001 and ISO 14001 accreditations. This is BlueScope's commitment on product quality and performance. It also simply means you can be confident and assured that your investment is well protected.



ZINCALUME® STEEL THE PROVEN ALUMINIUM-ZINC COATED STEEL SOLUTION FOR LONG-LASTING AND ROBUST PERFORMANCE

Manufacturing Excellence

BlueScope was the first manufacturer to produce Aluminium-Zinc alloy coated steel under the trademark of ZINCALUME® in 1976. The proprietary surface treatment technology, guaranteed material strength (G300 or G550 steel grade) and highest standard of metallic alloy coating process are the assurance for consistent and long-lasting performance of ZINCALUME® steel.



	ZINCALUME® steel	Generic Alternatives (Al-Zn)	Generic Alternatives (GI)
Coating composition	55% Aluminium, 43.5% Zinc and 1.5% Silicon with optimum microstructure to deliver superior corrosion resistance performance	Compromised performance due to unidentifiable coating composition and microstructure	99% Zinc which does not provide long term galvanic protection
Surface coating consistency	Produced with AZ150 coating mass, i.e. not less than 60g/m ² or 16µm coating thickness* on each steel surfaces, for consistent and even weathering performance	Inconsistent coating mass and coating thickness hence often produces inconsistent and unpredictable weathering performance	

*In accordance to Australian Standard, AS 1397

Excellent Corrosion Resistance

ZINCALUME® steel in excellent condition after years of exposure, in an industrial environment.

After 30 years

ZINCALUME® (AZ150)

After 10 years

Generic Alternatives (GI)

Microscopic view of ZINCALUME® steel

Microscopic view of Generic Alternatives (GI)

Images used are for reference only

Corrosion Rate Comparison*: ZINCALUME® steel vs Generic Alternatives (GI).

Site	ZINCALUME® steel		Generic Alternatives (GI)	
	g/m²/y	µm/y	g/m²/y	µm/y
Severe Marine	16	2.2	140	9.8
Marine	4.0	0.54	18	1.3
Industrial/Marine	4.2	0.57	20	1.4
Rural	1.3	0.17	4	0.28

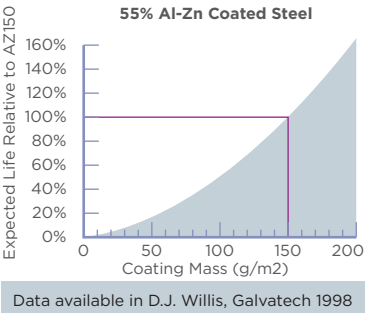
g/m² - two sided

µm - one side

*Tested in Australia Outdoor Exposure Sites

Guaranteed Coating Mass

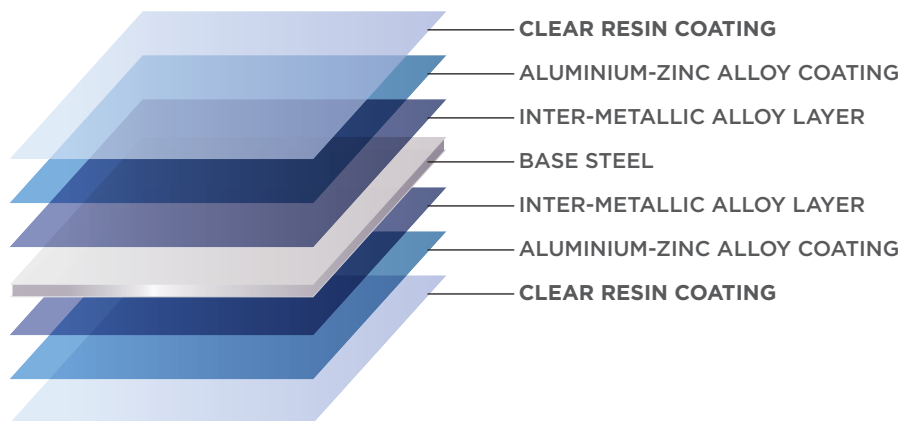
- The lifespan of a metallic coated steel very much depends on the amount of alloy applied onto the steel surface.
- Higher coating mass* provides better corrosion resistance performance.



ZINCALUME® steel	Generic Alternatives
Excellent corrosion resistance performance: resist perforation for at least 30 years under most of the environment conditions**	Unpredictable corrosion resistance performance due to unknown coating mass
* Thicker metallic coating ** When used for roofing application in accordance with BlueScope's recommended installation, detailing and preventive maintenance guidelines	

Surface Marking Resistance

- The uniqueness of BlueScope's proprietary surface treatment technology lies in the formula and the process of applying clear resin onto ZINCALUME® steel.
- It provides resistance to surface marking, such as handling & foot traffic mark during the installation of roofing sheets.



ZINCALUME® steel
(resin coated)



Generic Alternatives
(non-resin coated)

Even Greater Resistance to Weathering

BlueScope's proprietary surface treatment technology is the secret behind the superior weathering performance: ZINCALUME® steel continues to look like new for longer.



After 24 months of
outdoor exposure test in Australia

A ZINCALUME®

B Generic Alternatives



Branding Text for Assurance of Product Authenticity and Traceability

To assist you in identifying genuine ZINCALUME® steel made only by BlueScope, pay attention to the ZINCALUME® steel branding text on the reverse side of every sheet. Distinct branding text with ZINCALUME® steel brand name and product date and time eases identification and traceability, the brand presence is our assurance of BlueScope's commitment to quality.



Warranty Assured by BlueScope

It is through these real-world and actual test results and proven outdoor product performance that ZINCALUME® steel can confidently offer an assuring protection with

- 25 years* of warranty against perforation caused by corrosion.

*Warranty terms and conditions apply.



Note: This material warranty may vary to buildings nearer to marine or industrial environment and is subjected to prior agreement by BlueScope. For full terms and conditions and to determine the eligibility of your project for the warranty, please contact BlueScope at enquiries.malaysia@bluescope.com.

PROVEN TO LAST DECADES

Around the world and across different environments, ZINCALUME® steel stands the test of time with its proven durability.

Case Study 1:

Olympic Park Railway Station, Sydney, Australia

1998



After
17 Years

2015



Case Study 2:

Langkawi Underwater World, Kedah

2005



After
15 Years

2020



Zincalume®

For product identification and originality, please check the reverse side of the coil for the following branding text.

ZINCALUME (R) AZ150 steel made by BlueScope 16:18 01.APR.16 11



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