

Proven **STRENGTH.** **LASTING** Power.

ZINCALUME® STEEL – THE PROVEN ALUMINIUM/ZINC SOLUTION YOU NEED

Manufacturing Excellence

BlueScope became the first manufacturer in 1976 to produce aluminium/zinc alloy coated steel under the trademark ZINCALUME® steel with proprietary surface treatment technology. The guaranteed material strength (G300 or G550 steel grade) and highest metallic alloy coating control in manufacturing ZINCALUME® steel will ensure long lasting performance.

Product Specification	ZINCALUME® Steel	Generic Alternatives
1. Coating composition (50%-60% Aluminium, 1%-2% Silicon, Remainder Zinc)* and microstructure	Consist of 55% aluminium, 43.5% Zinc and 1.5% Silicon with optimum microstructure to deliver best corrosion resistance performance	Compromised performance due to unidentified coating composition and microstructure
2. Coating consistency on every surface to ensure consistent weathering	Produced with AZ150 coating class to ensure minimum 60g/m ² coating mass or 16µm coating thickness on each surface for consistent weathering performance	Inconsistent coating mass and coating thickness will lead to uneven weathering

Note: *AS1397

Excellent Corrosion Resistance

ZINCALUME® steel maintains its excellent condition after years of exposure, versus an alternative, in an industrial environment.



Zincalume®

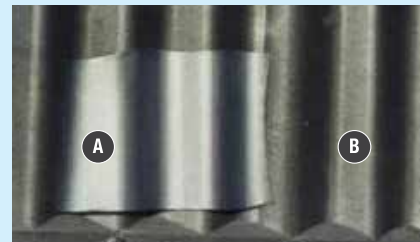
Generic Alternatives

Actual site inspection after 30 years installation

Image used is for reference only

Greater Resistance To Weathering

BlueScope's proprietary surface treatment delivers best in class appearance that will go on looking like new, for longer.

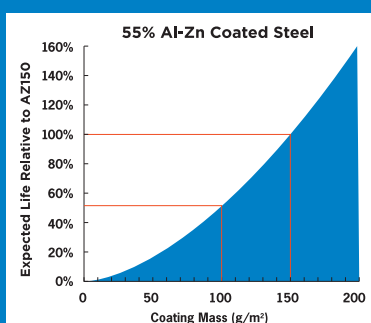


A Zincalume® B Generic Alternatives

After 24 months outdoor exposure in Australia

Importance of Guaranteed Coating Mass

- A metallic coated steel product's lifespan depends on the amount of coating being applied.
- Higher coating mass* provides improved corrosion resistance.



Data available in D.J. Willis, Galvatech 1998

ZINCALUME® Steel	Generic Alternatives
Resists perforation for at least 30 years in most environments**	Will not be as optimum due to wide range of coating mass
	AZ100 would only approximately half of ZINCALUME® steel's expected lifespan

*Thicker metallic alloy coating

**When used for roofing applications in accordance with BlueScope's recommendation of installation, detailing and preventative maintenance

Branding Text – Assurance and Traceability

The distinct branding text with ZINCALUME® steel's brand name, production date and time provides ease of identification, traceability and authenticity. It also serves as a brand presence, an assurance of BlueScope's commitment to quality.

ZINCALUME (R) AZ150 STEEL MADE BY BLUESCOPE 2013 07:4PM:13 11



Warranty Assured By BlueScope



- BlueScope conducts rigorous testing programmes which include accelerated laboratory corrosion tests and exposure tests at exposure sites ranging from moderate to very severe environments.
- Through these tests, ZINCALUME® steel offers quality assurance and warranty against perforation and corrosion for up to 25 years* and an accurate view of expected real-world performance.

*Warranty terms and conditions apply



Third-Party Product Certifications

ZINCALUME® steel is tested and certified by accredited third party bodies.



Proven To Last For Decades

Case Study 1:
Underwater World,
Langkawi
– After 15 years
in Severe Marine
Environment



Case Study 2:
Olympic Park
Railway Station,
Sydney – 17 years



Top-Notch Field Response & Product Support

- At BlueScope, we are committed to providing you with products and services you can rely on.
- Our local office has qualified & experienced technical staff to aid your queries immediately, including on-site inspection.
- We are supported by BlueScope's Australia-based Product Innovation and Technology (PIT), which conducts product evaluation & testing. PIT is BlueScope's global hub in leading production innovation & improvement.

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