

**Zincalume<sup>®</sup>**  
Made only By BlueScope Steel

Ten reasons why improved

# **ZINCALUME<sup>®</sup> STEEL**

**is the right choice for your needs.**



## PERFORMANCE ADVANTAGES YOU CAN MEASURE

**ZINCALUME® steel delivers outstanding durability, with a lifetime up to four times that of ordinary galvanized steel in the same environment. It also provides a combination of benefits just not available with generic Aluminum / Zinc ( Al/Zn) coated alternatives.**

### CONSIDER THESE TEN ADVANTAGES

1. ZINCALUME® steel is made only by BlueScope Steel
2. ZINCALUME® steel is SABS certified
3. ZINCALUME® steel is manufactured to Australian Standards - AS1397 and AS1365 using world leading technology
4. ZINCALUME® steel has a guaranteed minimum coating mass of AZ150 g/m<sup>2</sup>
5. ZINCALUME® steel will stay brighter for longer than generic Al/Zn materials
6. ZINCALUME® steel offers a consistently small spangle and smooth appearance
7. ZINCALUME® steel incorporates proprietary passivation treatment and resin coating designed by BlueScope Steel
8. ZINCALUME® steel has more than 30 years of proven field performance around the world
9. ZINCALUME® steel is backed by a BlueScope Steel warranty (terms and conditions apply)
10. ZINCALUME® steel has provided more than 10 million tonnes of roofing and wall cladding since 1976

### THE BLUESCOPE STEEL ADVANTAGE

When you source ZINCALUME® steel from BlueScope Steel you benefit from these unique benefits:

- BlueScope Steel has manufactured ZINCALUME® steel for over 30 years and remains committed to the ongoing product development to meet market expectations
- To ensure its superior performance BlueScope Steel will not supply ZINCALUME® steel with a coating mass less than AZ150
- All customer technical support is provided directly by BlueScope Steel's own technical and research staff – not via agents or independent third parties – so you can be assured of the highest quality responses to your questions
- BlueScope Steel's high manufacturing standards ensure you get a consistently high quality product designed for optimum rollforming performance

### A COOL SOLUTION THAT LASTS AND LASTS

There's more to gain by using genuine ZINCALUME® steel than just the reassurance that comes from supplying a quality product which will protect and enhance your reputation.

Research conducted on the East Coast of Australia by BlueScope Steel at test sites ranging from rural to severe marine has shown that ZINCALUME® AZ150 steel lasts up to twice as long as generic Zinc Aluminium AZ100 coating mass steel.

ZINCALUME® steel incorporates proprietary passivation treatment and resin coating designed by BlueScope Steel to provide long lasting thermal efficiency benefits which generic Al/Zn coated alternatives can't match.

ZINCALUME® steel sheeting offers a consistently small spangle and a smooth appearance which has been shown to provide 'best in class' resistance to general discoloration. By staying brighter for longer the surface of ZINCALUME® steel sheeting maximizes heat reflection

from solar radiation and minimizes heat transmission into the building cavity – so the superior performance of ZINCALUME® steel means the inside of your building will also be cooler for even longer.

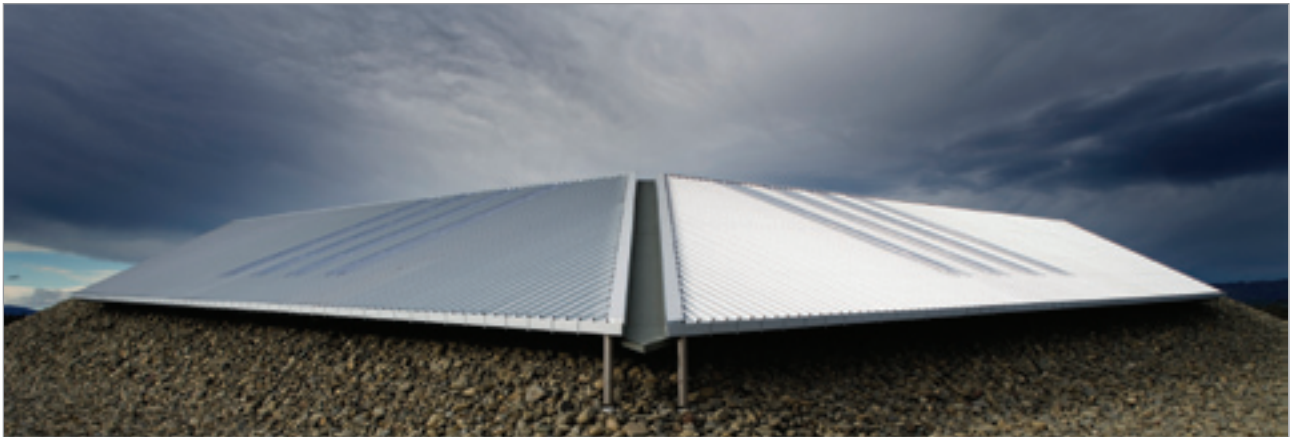


Old ZINCALUME® steel



Improved ZINCALUME® steel

## GET THE ANSWERS YOU NEED



### Q. Who is BlueScope Steel?

**A.** BlueScope Steel is an international steel solutions company with a manufacturing and marketing footprint spanning Australia, New Zealand, Asia, North America and Africa. It is also the world's leading supplier of high quality metallic coated and painted steel products for the building and construction sector.

### Q. What is ZINCALUME® steel?

**A.** ZINCALUME® is the brand name for BlueScope Steel's premium roofing and walling product. Its world leading technology has been intensively researched and continually developed to meet the demands of the building industry. It has a proven mix of 55% Aluminium, 43.5% Zinc and 1.5% Silicon to provide corrosion resistance of up to four times the life of galvanized steel in the same environment.

### Q. How is ZINCALUME® steel supported in the market?

**A.** ZINCALUME® steel has a long history of proven performance in South Africa and worldwide. It is supported by a project specific warranty on application – a warranty which will be honoured by BlueScope Steel.

### Q. Why is the coating mass so important?

**A.** A metal coated product's life is ultimately decided by the environment it is exposed to, the amount of coating metal applied to the base steel and the evenness of its application. BlueScope Steel's ZINCALUME® steel has a guaranteed minimum coating mass of AZ150g/m<sup>2</sup> that is your guarantee of long life performance.

BlueScope Steel coating mass control technology is among the most advanced in the world. A sophisticated coating mass gauge is linked to a computer in a closed-loop control system ensuring accurate control and consistency of coating mass. Not all generic Al/Zn cladding is supplied with the correct alloy content of 55% Aluminium and 43.5% Zinc or with a guaranteed AZ150 g/m<sup>2</sup>.

Generic AZ100g/m<sup>2</sup> sheeting supplied in South Africa has a life expectancy of around 50% of that of genuine ZINCALUME® steel.

### Q. Is there really any difference between ZINCALUME® steel and generic Al/Zn coated steel products?

**A.** BlueScope Steel's record of more than ten million tonnes of ZINCALUME® steel produced over 32 years has been achieved through the company's commitment to product quality and a process of continuous research, development and improvement. ZINCALUME® steel is guaranteed to achieve a material strength of G300 or G550 as specified, with a minimum coating mass of AZ150 (150g/m<sup>2</sup>). To ensure its superior performance BlueScope Steel will not supply ZINCALUME® steel with a coating mass less than AZ150. Crucially, ZINCALUME® steel is also guaranteed to contain the correct Al 55%, Zn 43.5% coating mix without which corrosion resistance and product life deteriorates markedly.

### Q. How does ZINCALUME® steel stay brighter for longer?

**A.** BlueScope Steel's extensive research and development program brings continuous improvement to the performance of our products. For ZINCALUME® steel a modification to surface treatment formula and application has led to improved weathering performance. Through the accelerated testing of the impact of ultra-violet light, heat, rainfall/humidity/condensation and pollution, BlueScope Steel technologists developed an understanding of the mechanisms of discoloration. The modified resin coating now applied to ZINCALUME® steel results in greater resistance to weathering, with consistent spangle and smooth appearance delivering "best in class" aesthetic appearance and a distinctive metallic look which lasts for longer than ever before.

### Q. Why is SABS certification important?

**A.** SABS stands for the South African Bureau of Standards. Being SABS certified ensures independent third-party certification and offers clear evidence that ZINCALUME® steel conforms to specific South African and International standards. The ongoing quality management audit which is an essential part of the SABS Mark Scheme has confirmed BlueScope Steel's dedication to quality management.

## CHECK THE QUALITY BEFORE YOU SPECIFY

On casual inspection Zinc/Aluminium coated steels may look similar when new, but their properties and performance can vary dramatically and deteriorate over time. To protect your reputation always check the certification, aesthetic features, performance and functionality.

We've benchmarked ZINCALUME® steel. Review the information below to see how generic Zinc/Aluminium coated steel alternatives compare. ZINCALUME® steel from BlueScope Steel is a premium quality roofing and walling product, intensively researched and continually improved to optimise its performance.

## HOW DO THE ALTERNATIVES COMPARE?

Feature	ZINCALUME® steel	Generic 55% AL/ZN
<b>Certification</b> SABS certified <b>What it means</b> 3rd party endorsed	✓	?
<b>Mechanical Properties</b> Tensile strength (G300/G550) <b>What it means</b> G550 = tensile strength of minimum 550 N/mm <sup>2</sup> G300 = tensile strength of minimum 300 N/mm <sup>2</sup>	✓	?
<b>Corrosion Performance</b> Minimum AZ150 coating class <b>What it means</b> Optimum 55% Al, 43.5% Zn, 1.5% Si composition AZ150 = minimum 150 g/m <sup>2</sup> of Aluminium – Zinc coating	✓	?
<b>Warranty</b> Backed by a BlueScope Steel warranty of up to 20 years, depending on the environment and the location of the building <b>What it means</b> Product quality, service and support you can rely on	✓	?
<b>Branding</b> Each sheet branded on the reverse side to confirm its quality <b>What it means</b> It's easy to distinguish genuine ZINCALUME® steel from generic substitutes	✓	?
<b>Product Appearance</b> Spangle size is small, fine and consistent Indicate optimised Aluminium and Zinc coating combination <b>What it means</b> Distinctive appearance that is lustrous and shiny	✓	?
<b>Darkening</b> Passivated by BlueScope Steel technology designed to maintain the material's lustre <b>What it means</b> ZINCALUME® steel will go on looking newer for longer	✓	?

## MAKE SURE IT'S GENUINE

If your good name is on the line, make sure ours is on the steel. Look for the brand that identifies the long lasting guaranteed performance of genuine ZINCALUME® steel from BlueScope Steel. Why risk your reputation by using generic Al/Zn material when you can enjoy peace of mind by using genuine ZINCALUME® steel.

Look for the following dot matrix brand:

ZINCALUME (R) AZ150 steel Made By BlueScope Steel

### BlueScope Steel

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