

**Zincalume®**



# 7 Good Reasons

to believe in ZINCALUME® steel for  
Roof & Wall Cladding Application





# Zincalume®

ZINCALUME® steel is one of the world's leading Al-Zn alloy coated steel ideal for roofing, wall cladding and manufacturing alternate applications. Metallic coating of ZINCALUME® steel combines the corrosion protection of aluminium with sacrificial protection of zinc that enhances corrosion resistance. It gives significantly longer service life than the galvanized coating.



Our quality accreditations

## 7 Reasons To Believe So:

# 1

### State-of-the-art Manufacturing Facility

ZINCALUME® steel is one of the world's leading 55% Al-Zn alloy coated steel product, manufactured at Jamshedpur facility with plant capacity of 250,000 tpa. The facility is accredited with ISO9001, ISO14001, OHSAS 18001 certifications- a testimony to its quality and performance. Consistent and superior performance is achieved through the highest degree of automation, process control, an online inspection & testing facility- supported with well-equipped laboratory. Our coating mass control technology is amongst 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. The consistency in mechanical properties is achieved through precise control in input steel chemistry and in-process parameters.

ZINCALUME® steel has 150 g/m<sup>2</sup> or 200 g/m<sup>2</sup> metallic coating distributed equally on both surfaces. It is available in Base Metal Thickness (BMT) ranging between 0.30mm to 1.30 mm and coil widths of 900 to 1250 mm.

It is offered with yield strength of minimum 300 MPa to minimum 550 MPa depending on the application. ZINCALUME® steel complies with AS1397, ASTM A792M, IS 15961 and ISO 9364 standards.



Metallic Coating Line



Molten Bath - Coating Control Systems



Jamshedpur Manufacturing Facility



## Decades of Proven Performance

# 2

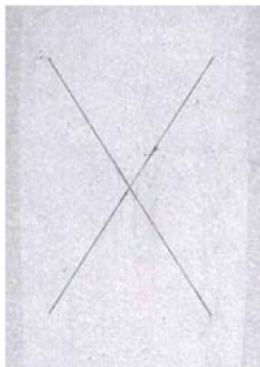
The performance of ZINCLAUME® steel has been rigorously tested at various climatic conditions. Actual performance is known to be better in real world exposure tests than laboratory tests. In fact, for over three decades BlueScope steel (JV partner) company has monitored the product performance across a wide range of climatic conditions using exposure test sites and infield inspections. There are more than thousands of test samples undergoing exposure tests at many test sites in Australia, New Zealand, Asia and now in India (that are more than 2 year old sites).

Tests have demonstrated that corrosion protection of ZINCLAUME® steel can last up to four times longer than corrosion protection provided by traditional Zinc coated steel with similar coating thickness in roofing and wall cladding applications in similar environments conditions.

### Salt Spray Test



Galvanised steel  
Z275 @ 240 hours  
of salt spray testing.

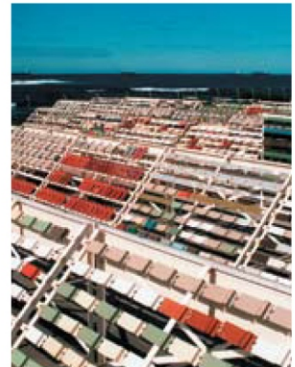


ZINCALUME® steel  
AZ150 @ 240 hours  
of salt spray testing



ZINCALUME® steel  
AZ150 @ 2000 hours  
of salt spray testing

### Outdoor Exposure Test



Exposure site : Bellambi Point  
Australia (Marine)

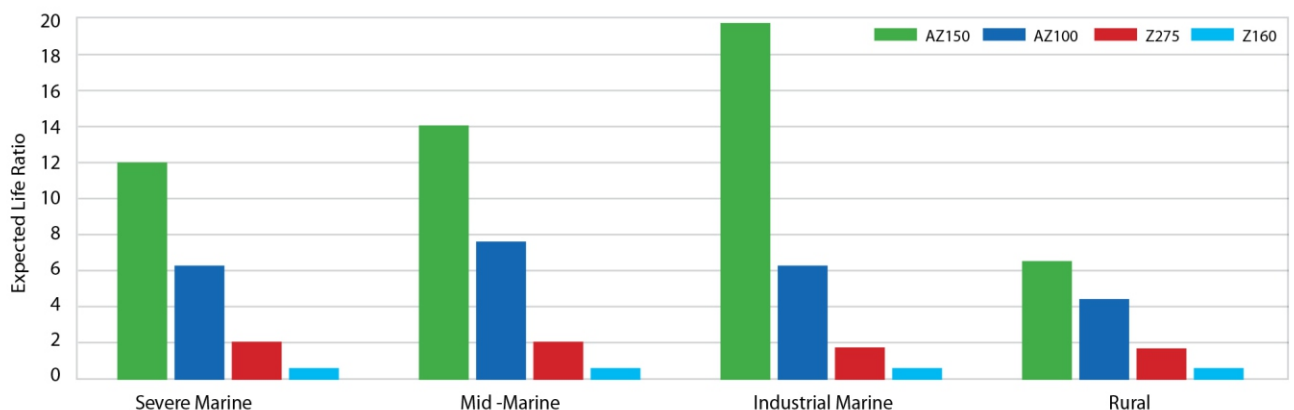
# 3

## A Significantly Longer Lifespan

Launched in 1976, ZINCALUME® steel, was developed after extensive research into improving the traditional performance of galvanised steel. By blending 55% Aluminium with 43.4% zinc & 1.6% Si in an alloy coating, greatly enhance corrosion resistance. As a result, our extensive testing programme indicates that life span of ZINCALUME® steel's with AZ150 is up to four times that of ordinary galvanized steel (Z275) in similar environmental conditions. **ZINCALUME® steel add Extra Life to your Buildings as compared to Z275, Z160 & AZ100.**

### Resistance to Atmospheric Corrosion

Expected Life Ratio Comparison of ZINCALUME® AZ150 steel, AZ100 55% Al-Zn Alloy coated steel, Z275 galvanised steel and Z160 galvanised steel



A comparison across various environments highlights -

- ZINCALUME® AZ150 steel has at least 8 times the life of Z160 galvanised steel
- ZINCALUME® AZ150 steel has at least 4 times the life of Z275 galvanised steel
- ZINCALUME® AZ150 steel has at least 2 times the life of AZ100-Al Zn Alloy coated steel (50% increase in coating but 100% increase in life)

# 4

## Anti- Darkening Property helps Aesthetics

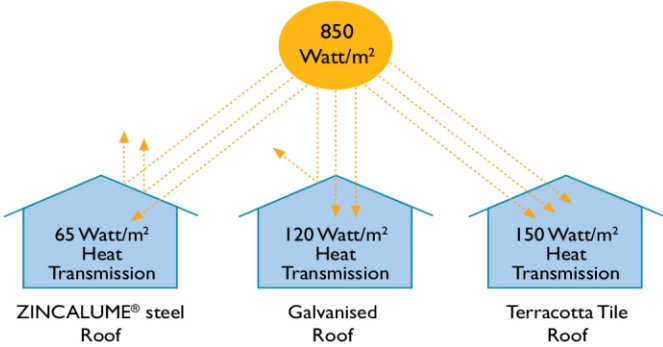
ZINCALUME® steel is manufactured using proven technology and durable surface treatment (coated with special passivation and resin as a separate layer). Excellent long-term exposure performance (rigorously tested in demanding conditions) and thermal reflectivity ensures that your roof and wall cladding looks newer for a longer period of time.



# 5

## Cool Comfort over Conventional Roofs

ZINCALUME® steel and galvanised steel perform equally, when new. But as the products weather, the thermal performance of ZINCALUME® steel is far more superior than that of identically weathered galvanised steel. When compared with fibre cement or asbestos, research has revealed an even more comprehensive performance of ZINCALUME® steel from the very first day of roof installation as ZINCALUME® steel is much more effective in keeping the heat out and offering greater thermal comfort in a new building. (SRI Value-57).



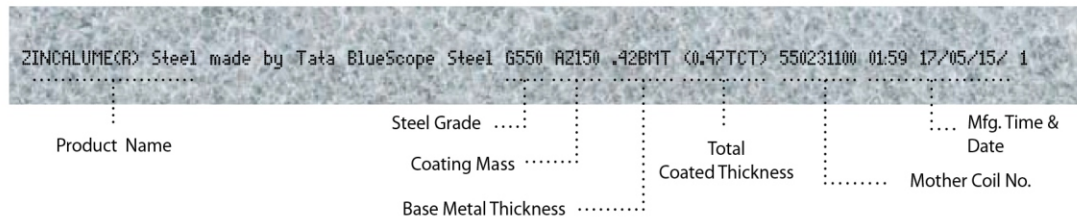
Based on a weather-worn roof where the level of reflectivity had stabilised and which were exposed to solar radiation of 850 W/m²



## Genuine Product

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ZINCALUME® steel is supplied with a brand mark at regular intervals on one reverse of the strip. This assures highest quality, backed by the team of qualified, experienced personnel at Tata BlueScope Steel.



Brandmark on the reverse of ZINCALUME® steel

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## Peace of Mind

When you specify ZINCALUME® steel from Tata BlueScope Steel you can be rest assured that required support is just around the corner. Our team of Technical experts ensure constant support for the correct use and maintenance of our products. ZINCALUME® steel is also backed by a Tata BlueScope Steel Warranty\*. With up to four times the lifespan of ordinary galvanised steel, you can be confident that ZINCALUME® steel provides peace of mind for years to come.

\*Subject to terms and conditions





# Zincalume®



Unique Roof Private Limited, Tamil Nadu



Durability



Cool Comfort



Assured  
Performance



A surety of  
Genuineness



Environment  
Friendly