



to use ZINCALUME® steel for
Roofing & Wall cladding applications

Zincalume®

ZINCALUME® steel is one of the world's leading 55% Al-Zn alloy coated steel ideal for roofing and wall cladding applications and other manufacturing articles. Metallic coating of ZINCALUME® steel combines the corrosion protection of Aluminium with the sacrificial protection of zinc enhance corrosion resistance. It gives significantly longer service life than the galvanized coating. Seven (7) Good reasons to use ZINCALUME® steel as the product for Roofing / wall cladding application for your project over similar products available in the market are as following



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. The consistency in mechanical properties is achieved through precise control in input steel chemistry and in-process parameters. ZINCALUME® steel complies with Indian Standard – IS15961, Australian Standard – AS1397, American Standards - ASTM A 792M.



Molten Bath - Coating Control Systems



Fully Equipped Laboratory



Jamshedpur Manufacturing Facility

2 Decades of Proven Performance

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 Tata Steel Colors (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).



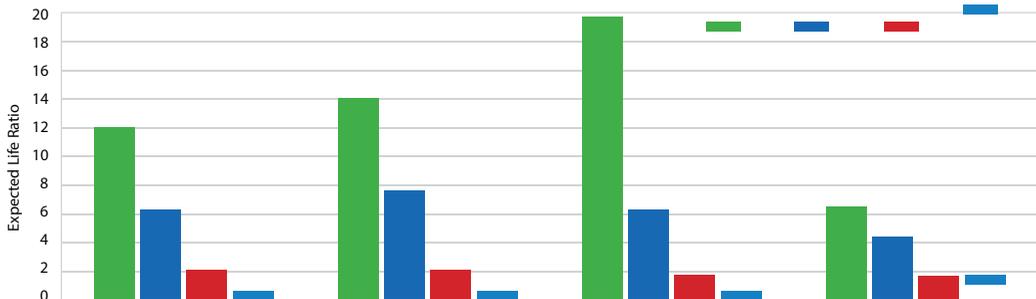
Tests have demonstrated that corrosion protection of ZINCLAUME® steel can last up to four times longer than corrosion protection provided by traditional Zinc coated steel with similar coating thickness in roofing and wall cladding applications in identical environments.

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 galvanised 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 the various environment shows that -

- 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) & thermal reflectivity ensures that your roof and wall cladding looks newer for a longer period of time.



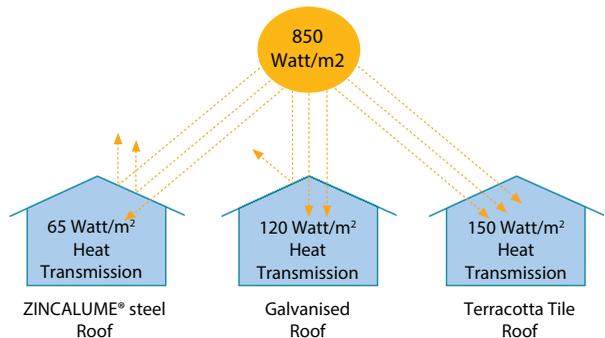
ZINCALUME® steel roof looks newer for longer



Ordinary 55% Al-Zn Alloy coated steel roof shows differential darkening over time

5 Cool Comfort over Conventional Roofs

When new, both ZINCALUME® steel and galvanised steel perform well. 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).

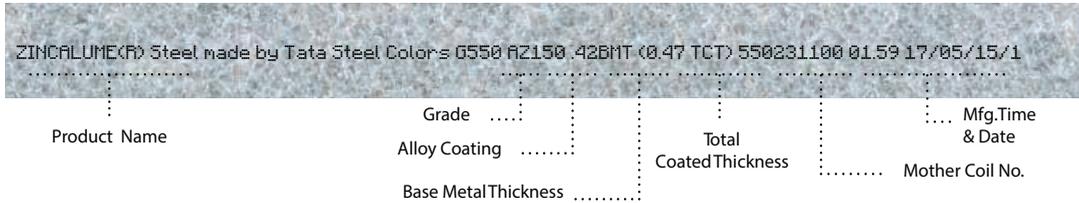


Based on a weather-worn roof where the level of reflectivity had stabilised and which were exposed to solar radiation of 850 W/m²

6

Genuine Branded Product

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 Steel Colors.



Brandmark on the reverse of ZINCALUME® steel

7

Peace of Mind

When you specify ZINCALUME® steel from Tata Steel Colors 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 Steel Colors 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.





Durability



Cool
Comfort



Assured
Performance



A surety of
Genuineness



Environment
Friendly



Tata Steel Colors Pvt. Ltd.
CIN: U45209PN2005PTC020270,
Floor no. 9 & 10, Kalpataru Infinia, Wakdewadi, Final Plot no. 21,
Sub plot no.3 at CTS no 15/1 Shivajinagar, Pune – 411003, India.
Tel: +91 20 6621 8000 | Website www.tatasteelcolors.com

Note:

©2026 Tata Steel Colors Pvt. Ltd. All rights reserved. This brochure and its content is copyright of Tata Steel Colors Pvt. Ltd. No part of this brochure may be reproduced or transmitted in any form or by any means, electronic or mechanical including photocopy, recording, or any information storage and retrieval system, without permission in writing from Tata Steel Colors Pvt. Ltd.

Explore More



Download
Tata Steel Colors App



1800 270 8333

TOLL FREE

E-mail contact@tatasteelcolors.com

Follow us on
Social Media

