

Zincalume®

Colorbond®



# Assured Performance

Outdoor Exposure Test & Laboratory Test



  
**TATA BLUESCOPE  
STEEL**



Tata BlueScope Steel is an equal joint venture between Tata Steel and BlueScope Steel, Australia. The company's manufacturing facility at Jamshedpur, Jharkhand (India) is accredited with ISO 9001, ISO 14001 and OHSAS 18001 certifications - a testimony to its quality and performance. Our ZINCALUME® steel complies with requirements of AS 1397, ASTM A792M, ISO 9364, IS 15961 and COLOBROND® steel complies with requirements of AS/NZS 2728, ASTM A755M/ IS 15965.



Our process accreditations

At Tata BlueScope Steel, our products undergo inspection checks as well as numerous tests to evaluate their performance in different environments. They are subjected to not only laboratory tests but also tests in external environments to evaluate their performance.

## For Quality Assurance, we follow:

### A) Process Control

A well-equipped Chemical Analysis Room for checking & monitoring various process parameters and forming analysis of different bath composition for both Metal Coating Line (MCL) and Colour Coating Line (CCL) beside input raw material quality verification & check.



Titration Apparatus

### B) Online Inspection & Testing (MCL & CCL)

- On-line and offline visual surface inspection of the top as well as bottom side
- Dimension and shapes
- Sample collection for coating mass, coating adhesion, resin coating thickness, passivation coating and mechanical properties
- Colour match against the requirements, visually and spectrophotometer
- Gloss of painted surface
- Paint curing by solvent rub test
- Paint film hardness by Pencil Hardness test
- Paint coat flexibility by T bend test
- Paint coating thickness (DFT) by DJH machine
- Paint adhesion by cross hatch and reverse impact and reverse impact test.



Electronic Balance



Horizontal Inspection Station



## C) Outdoor Exposure Evaluation

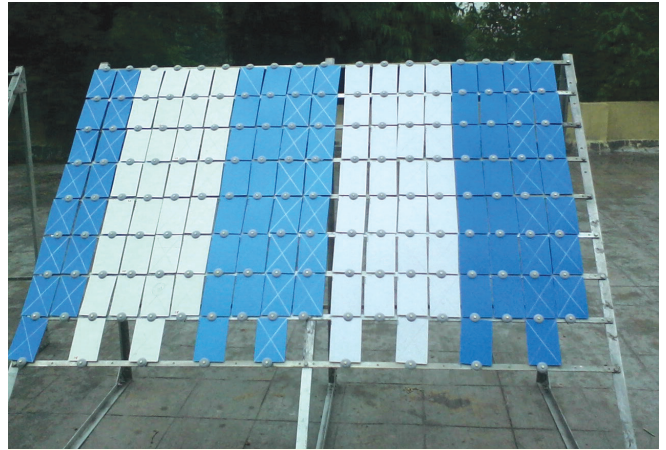
We carry out real world testing as well as accelerated lab tests. We have our own outdoor testing sites at three locations (i.e. Delhi-Urban, Ratnagiri-Coastal, Jamshedpur-Industrial) in India for testing coating mass, loss of metallic coated steel and paint performance of colour coated steel to check for colour change, gloss and chalking, degree of blistering, undercutting and coating adhesion.



Outdoor Exposure Site - Ambolgad, Ratnagiri, India (Marine)



Outdoor Exposure Site - Jamshedpur, India (Industrial)



Outdoor Exposure Site - New Delhi, India (Urban)

## D) Certification – Fully Equipped Laboratory for testing Metallic & Color Coated Steel Products



1. Tensile Testing (UTS, YS & % E)



2. Base Steel Hardness



3. Resin Thickness Measurement  
(INFRARED FILTOMETER)



4. Surface Chrome (Passivation) Measurement  
(PORTASPEC)



5. Lock Seam  
– Coating Adhesion & Flexibility



6. Microscopic Examination  
(STEREO MICROSCOPE)

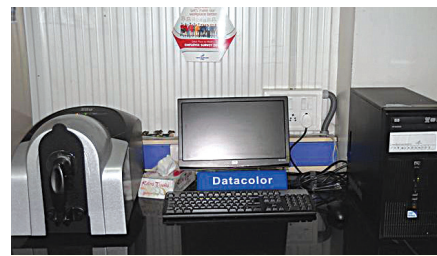




7. Dry Film Thickness (DJH)



8. Visual Colour Match



9. Machine Colour Match  
(Datacolor Spectrophotometer)



10. Paint Film Hardness  
(Pencil Hardness Tester)



11. Corrosion Resistance  
(Q-Fog Salt Spray Tester)

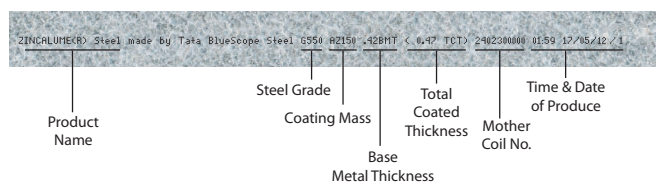


12. Colour Fading  
(Q-UV Tester)

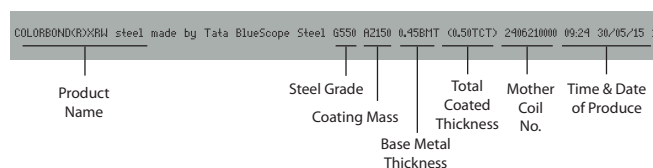
13. Roughness Tester, 14. Gloss Meter, 15. Solvent Rub Tester, 16. Laboratory Oven, 17. Cross Hatch, 18. Ford Cup, 19. Scratch Resistance Tester

## E) Genuine Product:

ZINCALUME® steel and COLORBOND® steel are trusted for good quality and value. Our products have a landmark on the reverse side for easy identification at factory / project sites.



Brandmark on the reverse of ZINCALUME® steel



Brandmark on the backer coat of COLORBOND® steel

## F) Performance Warranty:

COLORBOND® steel is backed by a Tata BlueScope Steel Warranty\*. With up to four times the lifespan of conventional pre-painted galvanised steel, you can be confident that COLORBOND® steel will keep your next project, and your reputation, looking good for years to come.



\*Subject to terms and conditions

ZINCALUME® and COLORBOND® steel is recognised by CII Indian Green Building Council (IGBC) as Green Products in Green Building Ratings



Manufacturing Unit: Coated Steel, BARA, AGRICO, Jamshedpur- 831009. INDIA.

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