

# State-of-art Manufacturing

Where world class manufacturing  
meets product excellence

Tata Steel founded India's first industrial city, Jamshedpur, where it established India's foremost integrated steel plant in 1907. Tata BlueScope Steel as part of a joint venture between Tata Steel and BlueScope Steel, Australia forayed in taking the vision of both these conglomerates for manufacturing world class coated steel products. The company founded in 2005, set up its state-of-art, manufacturing facility of its Coated Steel Business in 61.23 acres with built-up area of 37 acres. The paint line is operational since Nov 2011 and Metallic Coating line since April 2012. This cutting edge plant is fully equipped with latest technology from Siemens VAI. The manufacturing capacity of Metal Coating Line (MCL) is of 250,000 tonne per annum and Colour Coating Line (CCL) of 150,000 tonne per annum.

The automatic pack line for vertical and horizontal packing is of ITW make; one of the best in the industry.

Thickness (BMT) ranging between 0.30mm to 1.30mm and coil widths of 900 to 1250 mm. is offered with yield strength of minimum 300 MPa upto minimum 550 MPa depending on the application.

ZINCALUME® steel complies with AS1397, ASTM A792M, IS 15961 and ISO 9364 standards.

**Level 5 Automation in both lines** helps to maintain the stringent process parameter, thereby resulting in highest quality product which exceeds the standard requirements.



*Manufacturing facility – Metallic Coating line*



*Automatic pack line*



*Automatic metallic coating mass control system*

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Having automatic metallic coating mass control system at Metal Coating Line and uniform paint coating thickness technology at Colour Coating Line are amongst the most advanced in the world.

**Quality is non-negotiable.** With an accreditation of ISO9001, ISO14001, OHSAS18001 certifications, ZINCALUME steel & COLORBOND® steel manufactured here are a perfect testimony of quality adherence and world class performance.

Inspection checks as well as numerous tests to evaluate product performance in different conditions are undertaken stringently.

- A well-equipped Chemical Analysis Room for checking & monitoring various process parameters and analysis of different bath composition for both Metal Coating Line (MCL) and Color Coating Line (CCL) beside input raw material quality verification & check.
- Facilities for an online testing & visual inspection for both surfaces with well-equipped central laboratory.
- Equipment used for testing various properties of finished material such as Tensile Test (UTS, YS & % EL), Hardness tester, Resin Thickness Measurement, Surface Chrome (Passivation) Measurement by PORTASPEC, Metallic coating measurement by strip test method, Lock Seam – Coating Adhesion & Flexibility, Microscopic Examination by STEREO MICROSCOPE, Dry Film Thickness by DJH, Visual Color Match by DATACOLOR SPECTROPHOTOMETER, paint film hardness by Pencil Hardness Tester, Corrosion test by Q-Fog Salt Spray Tester, Paint durability by Q-UV Tester, cross hatch and reverse impact, paint curing by Solvent Rub Tester, Roughness Tester, Gloss Meter.



*Horizontal Inspection Station*



*Base Steel Hardness testing*



*Tensile Testing*



*Paint durability (Q-UV Tester)*



*Corrosion Resistance (Q-Fog Salt Spray Tester)*



*Visual Colour Match*



*Machine Colour Match*

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- We carry out real time testing as well as accelerated lab tests of our products. 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 Color coated steel to check for color change, gloss and chalking, degree of blistering, undercutting and coating adhesion.
- We source raw materials from top quality manufacturers in order to achieve standard requirements (IS15961, IS15965, AS1397, AS/NZS 2728, ASTM A 792M, ASTM A 755M).



Outdoor testing site



Finished goods are supplied with brand marking on back side with authenticated details at regular interval for identification purpose even at project site.

COLORBOND(R)XRW steel made by Tata BlueScope Steel G550 A2150 .42BMT (.47TCT) 2406210000 09:24 30/05/15 1

Product Name

Grade

Coating Class

Base Metal Thickness

Mother Coil No.

Total Coated Thickness\*

Mfg. Time & Date

COLORBOND® steel - Brandmark on the reverse side of strip

(\*Total Coated Thickness excludes paint thickness.)



The stated purpose is to create solutions to the ever changing needs, using the material that plays a vital role in all everyone's lives. Steel is exceptionally strong, durable and versatile, as well as 100% recyclable. Tata Bluescope Steel's manufacturing plant has been constructed using environment friendly material and ensures efficient usage of natural lighting and ventilation in all the buildings. It is well-equipped for rain water harvesting and sewage water treatment and has beautifully landscaped, lush gardens.

