

Colorbond®


TATA BLUESCOPE
STEEL

*Embrace the Future with
Sustainable Architecture*

Legacy of COLORBOND® steel

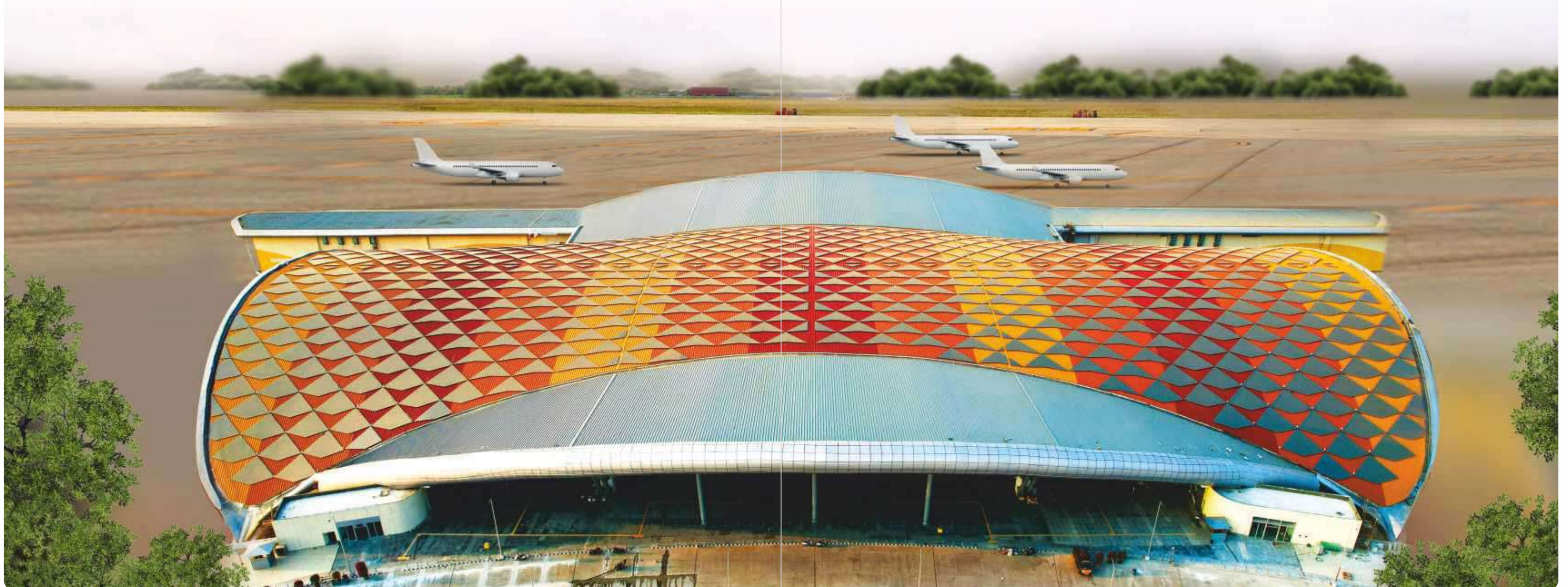
Ever since COLORBOND® steel first rolled out of paint-line in 1966, a great deal has changed. Not only has the colour range evolved, so has the technology of COLORBOND® steel production. COLORBOND® steel is really three products in one system. It has been designed to provide excellent strength of the steel base, corrosion resistance of Aluminium-zinc alloy coated ZINCALUME® steel and superior aesthetics of an advanced paint system.

For more than 25 years, COLORBOND® steel has been offering architects, designers, builders, and owners a versatile, lightweight, strong, and aesthetically pleasing solution for almost any type of building and environment. It has been instrumental in delivering longevity, energy efficiency, environmental sustainability, and great aesthetics.

Versatile and Reliable

The rich heritage of COLORBOND® steel lays the foundation of our future. As part of continuous innovation, BlueScope R&D team has worked on existing Super Durable Polyester topcoat paint formulation and has come up with an enhanced version which gives Improved Color Retention, Reduction in Chalking and Longer Lasting Gloss Retention. We at Tata BlueScope Steel are committed to offer best-in-class paint technology

within the Indian construction fraternity with 'Next Gen' COLORBOND® steel that promises highest paint durability with Thermatech® Solar Reflectance Technology. The new formulation is Ultra Durable Polyester (UDP) Paint System with highest durable coating system, superior to existing SDP paint technology.

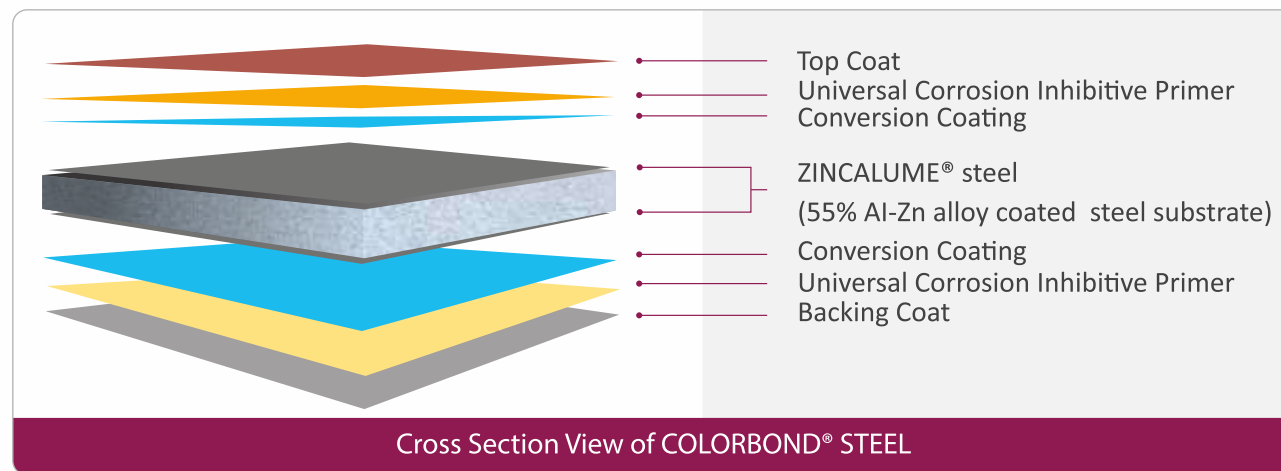




Tried, Tested and Refined over 50 years!

Next Gen COLORBOND® steel base is manufactured to meet the highest world standard, ensuring strict adherence to the required grade and strength quality. The chemical composition and incorporated layered coatings provide enhanced corrosion resistance. From pre-treatment to topcoat, all layers are specially developed and equipped with latest enhanced technology to provide protection as well as chipping, asking and blistering resistance, also to ensure the finish retains its look for longer.

COLORBOND® steel is incorporated with BlueScope Steel's metallic coating technology 'ZINCALUME® steel' - Aluminium-Zinc alloy coated steel base substrate, which offers superior weathering performance under varied conditions, when compared to other types of metallic coated steel. ZINCALUME® steel exhibits a complex coating structure consisting of both zinc-rich and aluminium rich areas, that provide excellent sacrificial protection and a durable barrier protection to steel. ZINCALUME® steel offers upto 4 times more durable and effective performance against corrosion as compared to galvanized steel of similar coating thickness.



Extensive R&D



Outdoor Testing



In-Lab Testing

To ensure COLORBOND® steel lives up to the highest expectations in durability, it is rigorously tested at cutting edge Australian R&D centers that include accelerated laboratory corrosion tests, as well as real world outdoor exposure tests along with actual project case studies. COLORBOND® steel is manufactured as per Indian (IS15961 and IS15965) & Australian Standards (AS1397 and AS/NZS 2728) and tested in some of the harshest Australian conditions over the last 50 years. A genuine COLORBOND® steel is far more than just paint on steel.

Committed to quality, constant improvement and proven by credible studies, COLORBOND® steel products can endure the test of time to be the most suitable external cladding material.



Revolutionary Paint Technology

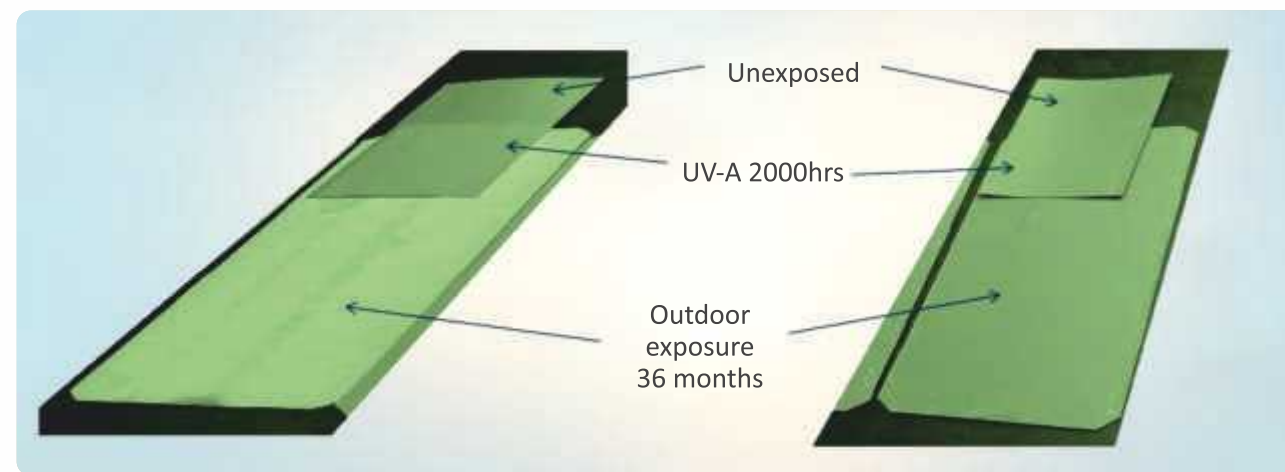
For Long Lasting Architectural Delight

What is paint weathering?

Prolonged weathering causes degradation of key ingredients in the paint system such as pigments and resins, which in return causes colour to fade. Delamination of paint is the separation of the top coat from its primer, and it can be caused by exposure to

UV, poor surface preparation and paint formulation or poor paint/primer specification. Hence, it's important to select a reputable pre-painted product to safeguard your building design.

Product Performance in real life conditions steel samples shown below are sheets exposed under similar environmental conditions for the same period. The ordinary prepainted steel shows significant colour fading, while the COLORBOND® steel shows very little change in colour, thus providing long lasting beauty.



Achieving superior weathering performance through innovation in proprietary paint technology

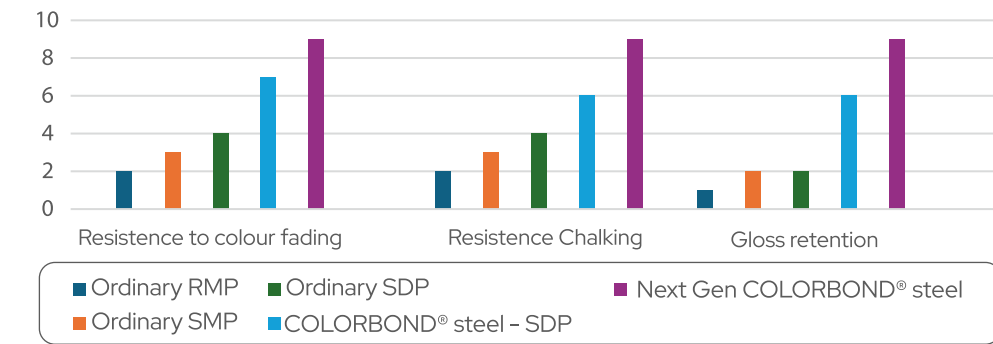
By utilizing optimum paint formulation and pigment blends, BlueScope assures excellent long-term colour stability for COLORBOND® steel products. The proprietary COLORBOND® steel paint system offers long lasting colour, gloss durability and better delamination resistance, making COLORBOND® steel an ideal choice for the building and construction industry.

Colour choices subtle or bold, light, or dark, cool, or warm, COLORBOND® steel utilizes optimum paint formulation and pigment blends to provide excellent long-term colour stability for COLORBOND® steel products. The proprietary paint system is a result of extensive R&D testing, including actual field exposure testing and has been proven by many actual cases to deliver superior durability against paint weathering, providing your building with a desirable, timeless design.

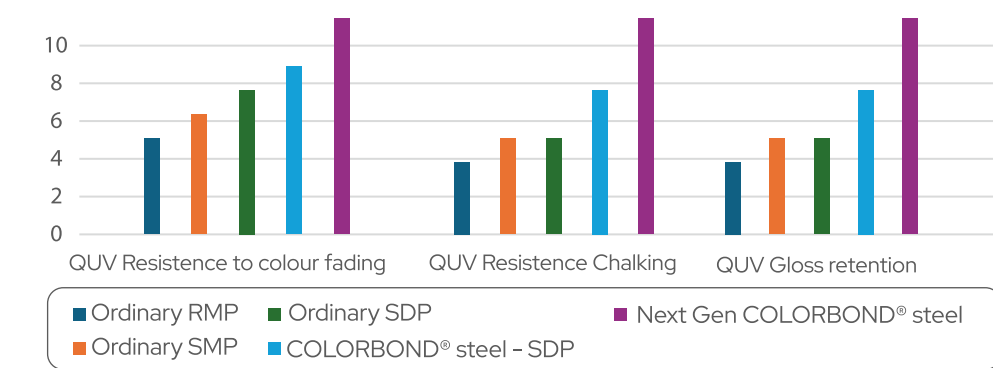


Paint Formulations and Pigment Blends

Natural Weathering - Outdoor Performance of Paint System - 10 years



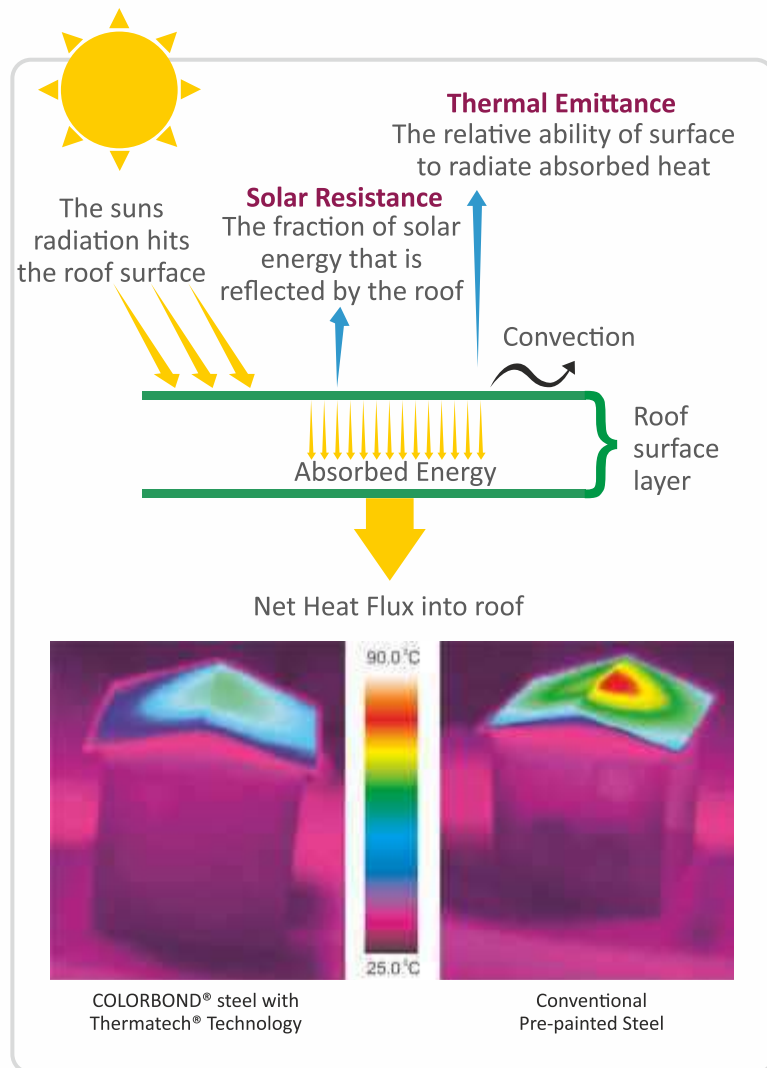
Accelerated QUV - 2000 hrs Lab Test Painted Steel Performance





Scientifically Designed System

With Exclusive Thermatech® Solar Reflectance Technology



What is solar reflectance technology?

Solar Reflectance Index (SRI) is a numerical measure that indicates a constructed surface's ability to reflect solar heat. The value ranges from 0 (standard black) to 100 (standard white), where the higher the number, the more heat is reflected.

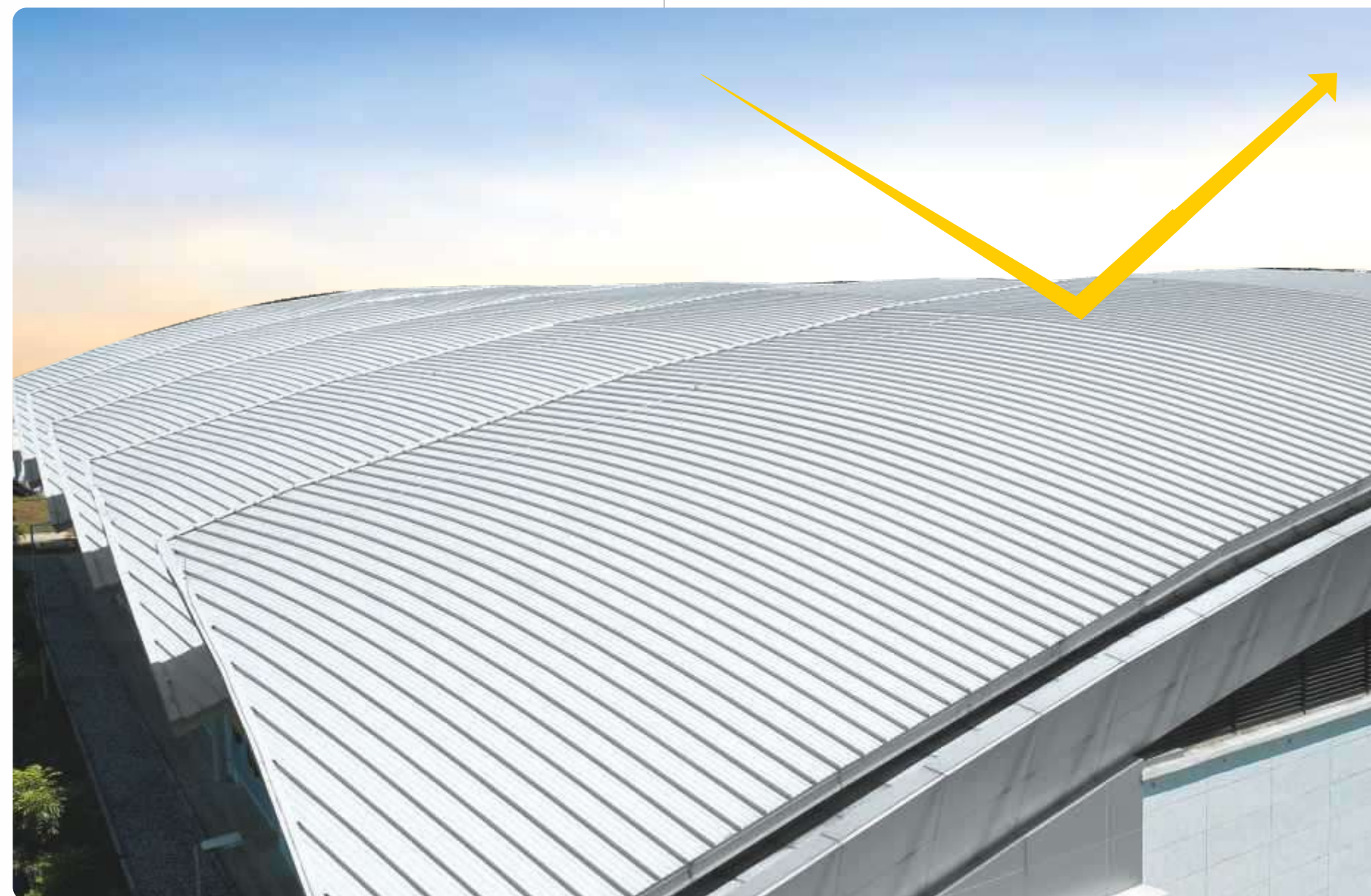
Why is Thermatech® important in today's scenario?

Selecting the right external cladding material has one of the biggest impacts in achieving thermal efficiency for buildings. This is especially important given the prolonged periods of harsh temperatures faced by many urban areas today due to the Urban Heat Island (UHI) effect, coupled with the increasing average temperature of the environment due to climate change. External claddings made of Thermatech® technology will absorb less heat, so less heat is re-emitted into the surrounding, ultimately reducing the UHI effect.

Green building rating tools such as the Leadership in Energy and Environment Design (LEED) and Green Building Index (GBI) encourage the usage of materials with high SRI values to mitigate the UHI effect. Depending on the design of your building, COLORBOND® steel with Thermatech® is able to meet such standards and potentially contribute to the reduction in cooling expenses.

Less Heat, More Comfort

With BlueScope Steel's Thermatech® solar reflectance technology, the solar reflectance ability is increased without affecting the colour shade. Hence COLORBOND® steel, incorporated with Thermatech® technology, can deliver better thermal performance compared to conventional paint of the same colour, ultimately lowering the heat transmitted through the roof into the living space. Lower heat transmitted means better thermal comfort.



COLORBOND® steel Colors	SRI Value	Low Slope* 1/4:12 to 2:12 (SRI - min. 78)	Steep Slope* 2:12 or more (SRI - min. 29)
Pure White	94	😊	😊
Dover White	92	😊	😊
Surfmist	87	😊	😊
Light Ivory	81	😊	😊
Gull Grey	69		😊
Sky Blue	46		😊
Toba Blue	37		😊
Pale Eucalypt	44		😊
Mist Green	39		😊
Windspray	45		😊
Headland	43		😊
Torres Blue	32		😊

*Green Building Council (USGBC) Norms.

Benefits



Cool Roof

Maintain thermal comfort in hot weather (lowers roof sheet temperature by up-to 6 deg C)



Energy Efficient Product

Reduces electricity consumption by up-to 15%



Enhanced Aesthetics

It increases color stability of material due to lowered roof temperature



Increased Durability of Cladding

It decreases thermal expansion/ contraction



Insulation

Acts like an added insulation under the sun



Planet Friendly Product

COLORBOND® steel is durable and resilient in harsh climate and its long life helps conserve resources and energy that may otherwise be invested in products with a shorter life span. All COLORBOND® steel contains recycled content and the steel itself in COLORBOND® steel is 100 % recyclable. In some cases, it can be reused without reprocessing, again saving energy and resource use.

Recycled Content

All COLORBOND® steel are made from steel that has recycled content.

Regional Materials

Our manufacturing facility is in radius of qualifying as regional materials to most of the project sites in India.

Reduce Heat Island Effect from Roof

Many light shades of COLORBOND® steel meet solar reflectance Index (SRI) that is required by green building standard.

Clean Internal Air Quality

COLORBOND® steel is pre-painted steel which is not required to paint at construction sites. It is likely to emit Zero/less TVOCs and formaldehyde than other material used for the same purpose which gives better IAQ; health benefits for occupants.

Rainwater Harvesting

COLORBOND® steel roof is suitable for 'Rainwater Harvesting' as external coating is free from heavy metal (lead content, Hg, Cd, etc.

Accreditations



Environmental Product Declaration



GreenPro certification



Green Rating for Integrated Habitat Assessment

COLORBOND® steel has well-known eco-label certificates establishing itself as a leader in sustainable architecture:

• **Verified Environmental Product Declaration (EPD)**

• **GreenPro Certification** recognized by CII Indian Green Building Council (IGBC) as Green Product in Green Building Ratings.

• **GRIHA (Green Rating for Integrated Habitat Assessment)** product certification in Metal Coated Steel & Color Coated Steel, first-of-its-kind in India.



Comprehensive Versatile
Product portfolio

Colorbond® XRW

COLORBOND® XRW steel

COLORBOND® XRW steel is specially designed and developed for high durability and superior aesthetics for roofing and wall cladding applications for general use. It is tested in some of the harshest Australian conditions over 50 years, genuine COLORBOND® XRW steel is far more than just paint on steel. COLORBOND® XRW steel's paint system uses Ultra Durable Polyester (UDP) paint system. It offers extraordinary color fading resistance, excellent gloss retention and film integrity over long period of time. COLORBOND® XRW steel with innovative Thermatech® solar reflectance technology, offers better cool comfort to the building occupants in during peak temperature. In South Asia countries & around the world, COLORBOND® XRW steel product is preferred choice to an architect, building designer and owners in roofing and wall cladding application in all sectors such as Infrastructure, all type of Industrial segment, commercial complex, warehousing and many more. COLORBOND® XRW steel is complies to IS15965- Durability Class 3 & Australian Standards AS/NZS 2728 – Product type 4 severity.



Comprehensive Versatile
Product portfolio

Colorbond®
ULTRA

COLORBOND® Ultra steel

COLORBOND® Ultra steel is designed especially for external cladding application for severe coastal & industrial environments with salt spray in the air. The higher coating mass of AZ200 & special paint system provides additional degree of protection to the steel substrate. Metal sheeting, including exterior roofing and walling sheets, made from COLORBOND® Ultra steel will be able to better handle salt, pollution and other deposits that normally cause premature corrosion on metal sheets. COLORBOND® Ultra steel is best suited for moderately severe marine & industrial environment (typically 100-200 m from the source of the severe environment). COLORBOND® Ultra steel's paint system uses Ultra Durable Polyester (UDP) paint system with high corrosion resistance primer, withstand in severe environmental conditions. A wide colour range along with excellent resistance to corrosion makes it more convenient for architects & engineers to use this product in corrosive environments, especially for industrial & infrastructure projects. COLORBOND® Ultra steel is complying to IS15965- Durability Class 4 & Australian Standards AS/NZS 2728- Product type 4 severity.



Comprehensive Versatile
Product portfolio

Colorbond® XPD

COLORBOND® XPD steel

The color fading of pre-painted steel is typically caused by exposure to UV radiation in sunlight and other external factors that are beyond our control. The unique composition of the paint system of COLORBOND® XPD steel uses stable Polyvinylidene fluoride (PVDF) fluororesin/ fluoropolymer having 70% PVDF resin from Kynar500 or Hylar5000 and 30% durable acrylic resin and long-lasting inorganic and ceramic pigments. Our Tata BlueScope Steel's 70% PVDF paint system goes beyond generic PVDF paint system and has been developed with proprietary formula which outperforms conventional PVDF paint. COLORBOND® XPD steel is especially designed for premium color durability, excellent weatherability and high formability for your choice of prestigious roofing, walling, architectural panels and building accessories that demand ultimate performance in long terms color and gloss retention. COLORBOND® XPD steel is complying to IS15965- Durability Class 3 & Australian Standards AS/NZS 2728- Product type 3 severity.



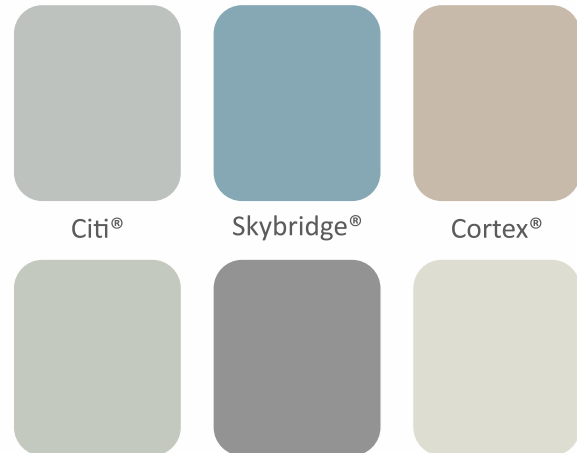
Comprehensive Versatile
Product portfolio

Colorbond®
metallic

COLORBOND® metallic steel

The distinctive reflective surface of COLORBOND® metallic steel draws on the environment and surrounding structure, enabling you to enhance your prestigious building designs with subtle yet dramatic effects, endless nuances and dynamic changeable qualities. A new paint type and production method strategically places particles in the paint system to optimize light penetration and colour reflectivity to increase brilliance. As light gently washes over the mica particles in the metallic finish, a unique perception of depth is achieved. In addition, the mica particles create a striking effect as the appearance of the painted surface changes depending upon the lighting condition and viewing angle. Whether it's by using the variations between vertical and horizontal planes, creating distinctive architectural features, or even regulating the conditions of incidental lighting, the flexible nature of COLORBOND® metallic steel will complement and enhance any design with planning and thoughtful design, iconic buildings are now more achievable. A simple play of light is all that's needed to bring out the signature metallic finish on COLORBOND® metallic steel. It is ideal for cost-efficient facades, design features and interior partitioning. COLORBOND® metallic steel is complying to IS15965 Durability Class 3 & Australian Standards AS/NZS 2728 – Product type 3 severity.

COLORBOND® Metallic steel



*The above colours are for reference purpose only. Do consult our sales representative for the actual colour samples.



Comprehensive Versatile
Product portfolio

Colorbond®
spectrum series

COLORBOND® **steel spectrum series**

Reflecting strength and beauty of its surroundings, COLORBOND® steel spectrum series creates an amazing effect under varied natural lighting conditions and viewing angles, enhancing the prestigious appearance of your building with subtle yet remarkable effects. The basis behind the development of the COLORBOND® spectrum steel series is the intelligently formulated technology of COLORBOND® steel and the tough and durable Aluminium-zinc alloy-coated steel that assures you more than just exceptional aesthetics.

Metallic finish is achieved through the addition of high-performance metallic pigments, which allows paint to exhibit different characteristics in color and appearance in different time and angle. Typically, the metallic pigment used is called mica particles, which are shiny mineral-flakes. COLORBOND® spectrum steel is complying to IS15965- Durability Class 3 & Australian Standards AS/NZS 2728 – Product type 3 severity.

COLORBOND® steel **spectrum series**



*The above colours are for reference purpose only. Do consult our sales representative for the actual colour samples.



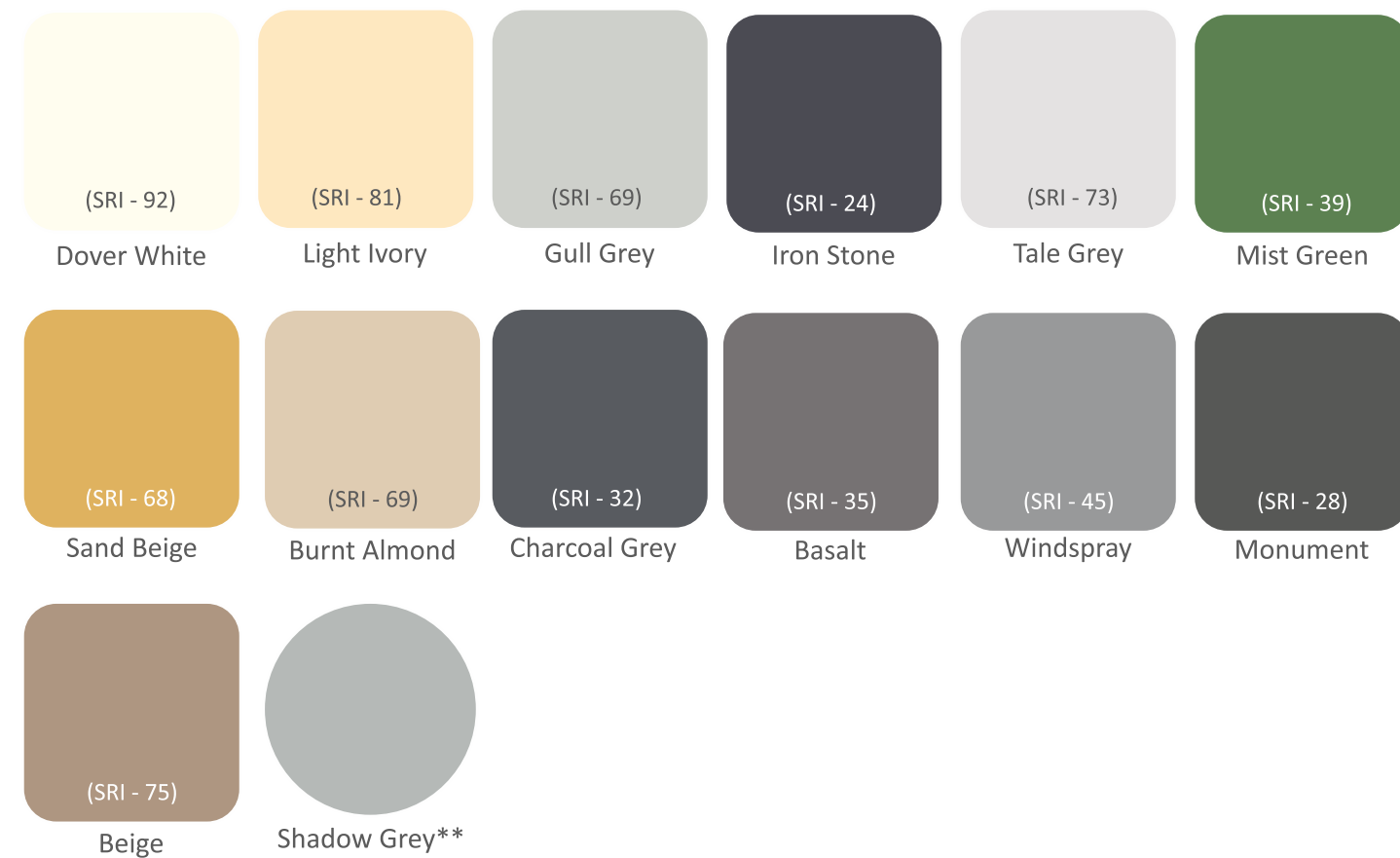
COLORBOND® steel primary colour range

We take pride in being at the forefront of quality and innovation, by continuously investing in research to refine and develop building materials that are stronger, lighter and ultimately more viable for construction. So, whatever your imagination conceives, COLORBOND® steel can be the material of your choice.

Standard colour range



Non - Standard colour range



The above colours are for reference purpose only. Do consult our sales representative for the actual colour samples. **Back Coat

Peace of mind

When you purchase COLORBOND® steel you are buying products made and backed by Tata BlueScope steel, a coating technology from BlueScope Australia, the product is tested, proven and refined over 50 years in extreme environmental condition gives peace of mind.

Tata Bluescope Steel takes a professional approach to product warranties and standby it. Warranties are treated as an important part of our product offer and after-sales service. Our warranties are developed after thorough review and are not just a sales tool.

COLORBOND® steel offering

Base Metal Thickness
0.30 mm to 1.30 mm

Supply width
900 mm to 1250 mm
(Slit width <900mm can be available on request)

Metallic coating
AZ150 & AZ200

Grade
Yield Strength – 300 MPa, 340 MPa/350 Mpa, 550 MPa
(As per ASTM A792M/ AS1397 / Is15961)

Colors
Vibrant range of color

Pack size
3-5 tonnes

COLORBOND® steel come with warranty, applicable from the shipment date (subjected to terms and conditions):

1. Resistance to Corrosion: It will have a life prior to corrosion to perforation by weathering in the natural elements up to twenty five (25) years.
2. Resistance to Color fading (measured as per ASTM D-2244 -Delta E Hunter Color Difference): Exterior top color will not fade or change color in excess to 6 DE units for light colors, to 9 DE units for intermediate color, to 12 DE units for dark colors – for the period up to 12 years.
3. Resistance to Peel /flaking: Exterior top color will not peel or flake for a period up to 12 years.



* Warranty is subject to terms and conditions. Contact Tata BlueScope Steel Sales Office for further information.



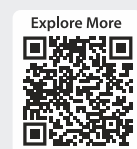
The evolution of complex structural designs has created an increasing need for superior building materials. Strong, beautiful, and durable, COLORBOND® steel is tried and tested in Australian conditions to look great and deliver outstanding, long-life performance. Due to its versatility, its applications are endless and only limited by one's imagination.

With COLORBOND® steel, you are assured of a sustainable partner that will take your designs from concept to reality.



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