



The Future of Roofing, Inspired by Nature!



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CORAL BROCHURE/FY24-25/APRIL/QTV-1000

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**WHERE NATURE'S BRILLIANCE
MEETS ENGINEERING MASTERY!**

ABOUT APL APOLLO

Welcome to APL Apollo, where innovation, excellence, and reliability converge to revolutionize the steel industry. As a premier manufacturer and supplier of high-quality steel products, we take immense pride in our unwavering commitment to pushing boundaries and setting new standards in the industry.

APL Apollo Tubes Limited stands tall as the largest producer of Structural Steel Tubes in India.

Our Legacy of Excellence:

With a legacy spanning over a decade, APL APOLLO has emerged as a global leader in the production of structural steel tubes. Our unwavering dedication to quality and customer satisfaction has propelled us to the forefront of the industry, earning us recognition as one of the largest players worldwide.

Innovative Capacity Investment:

We believe in investing in the future. Through consistent investment in our manufacturing capacities, we have positioned ourselves as pioneers in the industry. Our strategic approach to capacity creation ensures a balanced manufacturing infrastructure across regions, enabling us to meet demand with precision and efficiency.

Pioneering Technology Adoption:

At APL APOLLO, innovation is ingrained in our DNA. For the past two decades, we have been at the forefront of bringing cutting-edge technology to India's shores. From ground-breaking manufacturing processes to state-of-the-art machinery, we continuously push boundaries to create new products and markets.

Expansive Product Portfolio:

Our commitment to innovation is reflected in our expansive product portfolio, comprising over 2,000 SKUs. From structural tubes to hollow sections, pre-galvanized tubes to precision tubes, we offer a diverse range of products that cater to a multitude of applications and sectors.

Robust Distribution Network:

We understand the importance of accessibility. That's why we have developed the largest and most expansive distribution network in the industry. Supported by robust supply chain solutions, our multi-layer network ensures that our products are readily available across India.

Driving Trade Transformation:

We are not content with just meeting benchmarks; we strive to set them. By providing innovative products, rapid delivery, and growth opportunities to our channel partners, we have revolutionized trade practices within the industry.

A Commitment to Innovation:

Innovation is at the heart of everything we do. We remain steadfast in our commitment to developing innovative solutions that address evolving customer needs and deliver increased value. Our cutting-edge facility near Raipur is a testament to this commitment, where we manufacture value-added products that are firsts for the Indian markets.

4.3 Mn T
Steel products

30
Countries across
the Globe

11
Manufacturing units

SUSTAINABILITY IS AT THE CORE OF APL APOLLO

Our environmental management is not a strategy but a philosophy embedded in the substrata of the enterprise. It allows us to reduce our carbon footprint and also inspires our customers to meet their own environmental management aspirations. By championing sustainable practices, we create a ripple effect that benefits the entire ecosystem.

Products

We are the first and pioneering Company to innovate readymade Chalkhat, Fence, Plank, and Hand rails under the Steel for Green concept which replaced conventional wood applications in building construction. Our product saves approximately 250,000 trees every year, making a significant contribution to forest conservation. This translates to preserving vital habitats for countless species and promoting biodiversity.

Energy

Our total renewable energy stood at 145.0 MW, which is 60% of APL Apollo's total energy consumption. To achieve its near-term emissions reduction targets, APL Apollo plans to increase the use of renewable energy. At two of APL Apollo's plants (in Malur, Karnataka and Hosur, Tamil Nadu), over 85% of energy needs were met through renewable energy, demonstrating the feasibility of a sustainable future and paving the way for a cleaner and healthier planet.

Green cover

We have planted 5,000 plants on 3.1 acres of government-provided land in Gendupur Village, Sikandrabad, close to our AMPL (A25/Plot 22) and APL A19 manufacturing plants. Furthermore, we have undertaken a large number of plantation activities in our plants at APL Apollo Building Products Private Limited (ABPL). For the plantation of thick, natural mini-forests, we have adapted the Miyawaki technique pioneered by the Japa-

nese botanist Akira Miyawaki. The method will result in ten times faster plant growth and a plantation that is 30 times denser than typical, creating a valuable habitat for local wildlife and contributing to improved air quality through increased carbon sequestration.

Water

Over the years, we have persevered to optimise water consumption at our facilities by strengthening our shop-floor processes. Our patient efforts have yielded heartening results. Over the last three years (FY20-FY23), our total water consumption declined by 9% YoY despite a 30% jump in production. Our two facilities at Murbad and Malur are Zero-Liquid Discharge certified. To rejuvenate the groundwater table, we have created rain-water harvesting pits of around 353 cubic meters. This commitment to water conservation ensures a vital resource for future generations.

MEMBER OF

**Dow Jones
Sustainability Indices**

In Collaboration with RobecoSAM



DJSI FY2024 SCORE

APL APOLLO TUBES
STANDS AT

89TH
PERCENTILE

(IN THE PEER INDUSTRY COMPRISING OF GLOBAL COMPANIES)
SCORE REACHED A HIGH OF 49 POINTS

IMPROVEMENT ACROSS AREAS



**Social
Dimension**



**Governance &
Economic Dimension**



**Environmental
Dimension**

The Raipur Facility

Driving Innovation and Sustainable Growth

Manufacturing Plant Overview

APL Apollo's manufacturing facility located at Simga, Raipur spans across a vast 600-acre landscape, our facility stands as a testament to our commitment to excellence in the manufacturing of steel tubes and building products.

With a current annual capacity of 1.5 million tons, our facility is equipped to meet the growing demands of various industries.

Our operations prioritize environmental sustainability, with features such as:



A Zero Discharge Plant, ensuring minimal environmental impact.



Implementation of an Acid Regeneration Plant, promoting eco-friendly practices.

Our facility boasts a range of ground-breaking product innovations, including :



India's first 20 mm HR Slitting Line



Launch of India's first 500 x 500 mm Structure Tube Section and introduction of 1000 x 1000 mm Structure Tubes, a pioneering feat in India and globally.



Implementation of India's first Thicker Colour Coating Line, offering superior coating thickness ranging from 1.60mm to 2.50mm

ABOUT APL APOLLO CORAL

When naming our product, we couldn't think of a better choice than 'Coral'.

APL Apollo Coral embodies the strength and vibrant hues reminiscent of marine corals. And just like these resilient underwater colonies, it exudes a delightful array of colours while effortlessly shrugging off the harshest weather conditions.

APL Apollo Coral, much like coral reefs are known for their ability to thrive in challenging environments. Coral roofing sheets boast high-quality and strength, ensuring they withstand extreme weather conditions with ease. Just as coral reefs captivate with their intricate structures and vivid colors, these roofing sheets are designed to be both colourful and beautiful, adding an element of visual allure to any structure. Like the vital role that coral reefs play in our ecosystem, every aspect of coral roofing systems underscore our commitment to sustainability.



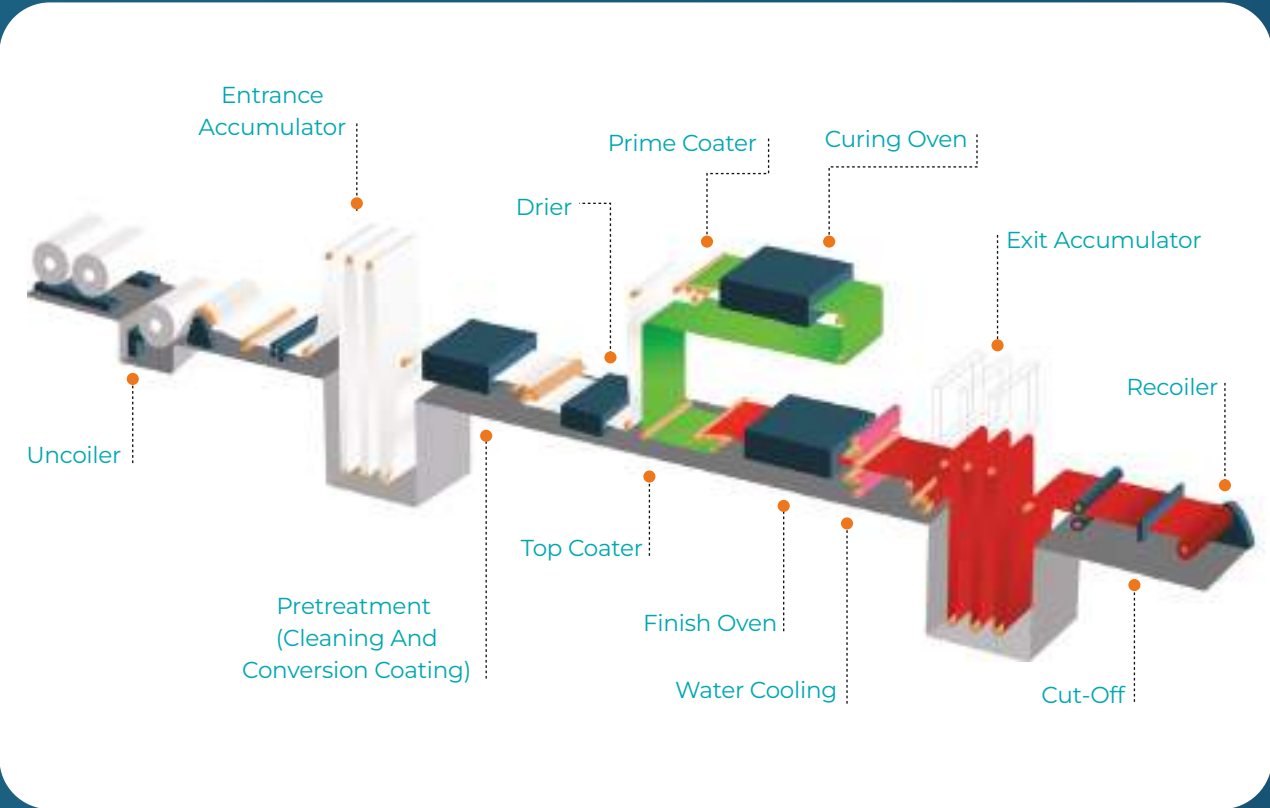
SCAN TO KNOW MORE



MANUFACTURING PROCESS

APL Apollo Coral isn't just about the finished product; it's the culmination of a sophisticated manufacturing process. High-quality steel coils begin their journey by being unwound and fed into specialized machinery. Here, the steel undergoes precise corrugation, forming the signature wave pattern that grants Coral its exceptional strength.

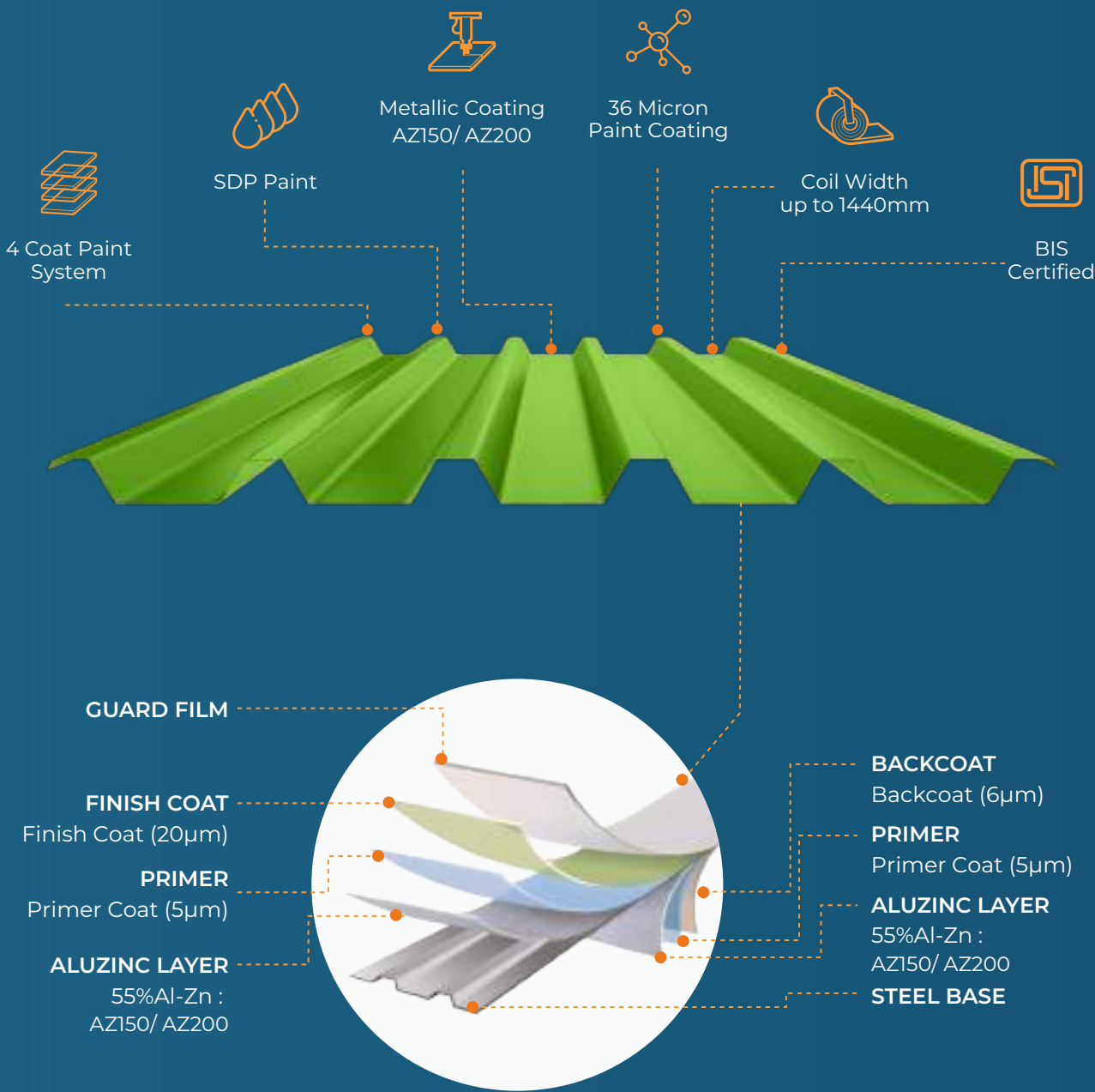
This transformation doesn't stop there. Advanced technology meticulously applies a color-coated Alu-Zinc (Al-Zn) layer. This layer not only provides vibrant color options but also imbues Coral with exceptional weather resistance. Precise heating ensures the coating adheres seamlessly to the coated alu-zinc steel base, creating a lasting bond. Finally, each Coral panel undergoes rigorous inspection to guarantee consistent quality. This meticulous process transforms raw steel into the robust and aesthetically pleasing Coral – a testament to APL Apollo's commitment to innovation and excellence.



WHAT MAKES APL APOLLO CORAL THE PERFECT CHOICE

Crafted from a revolutionary material – Alu-Zinc (Al-Zn) steel – APL Apollo Coral redefines what a roof can be. It seamlessly blends exceptional strength with enduring beauty, making it the ideal choice for discerning builders. But what exactly makes Coral so unique?

Let's delve into the science behind its superior performance:



CORAL ADVANTAGES



SDP Paint System



Range of vibrant colours



Corrosion resistant



Extreme weather resistant



Strong, durable and safe



Eco-friendly and fire resistant



High strength to weight ratio




Extremely low maintenance




Accuracy in thickness, width, and length for a perfect fit

A ROOF SHEET THAT PASSES EVERY TEST




QUV (Weathering Test)
Min. 1000 Hours

Simulates sun, rain, and extreme temperatures to assess colorfastness, cracking resistance, and overall durability.



Humidity
Min. 1500 Hours

valuates how the sheet performs in high moisture environments, ensuring structural integrity and functionality.




Salt Spray Test
Min. 1300 Hours

Mimics coastal or de-icing salt exposure, assessing resistance to rust, pitting, and discoloration.



Impact Test
10 joule (T>0.5mm)

Evaluates the sheet's ability to withstand hail or debris impact, ensuring resistance to cracking, denting, or puncturing.



MEK Solvent Resistance Test
Top/Bottom Coat
Min 100DR/50DR

Checks the coating's resistance to chemical stains, softening, or degradation from accidental solvent contact.

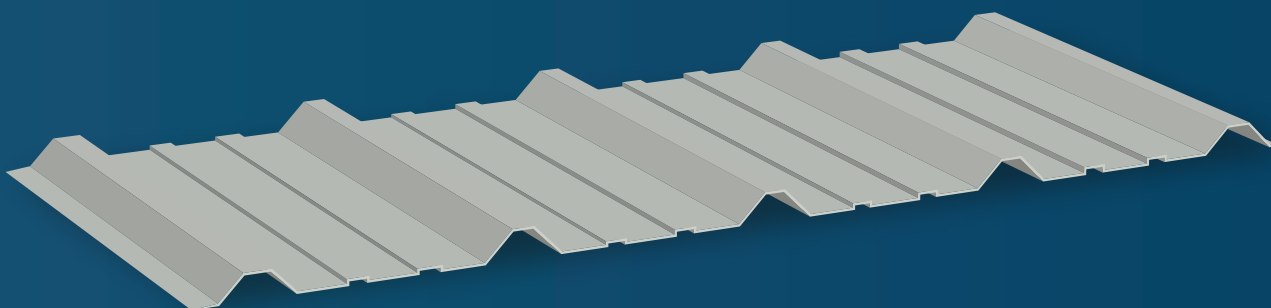


Chalking Test
Min. 1000 Hours

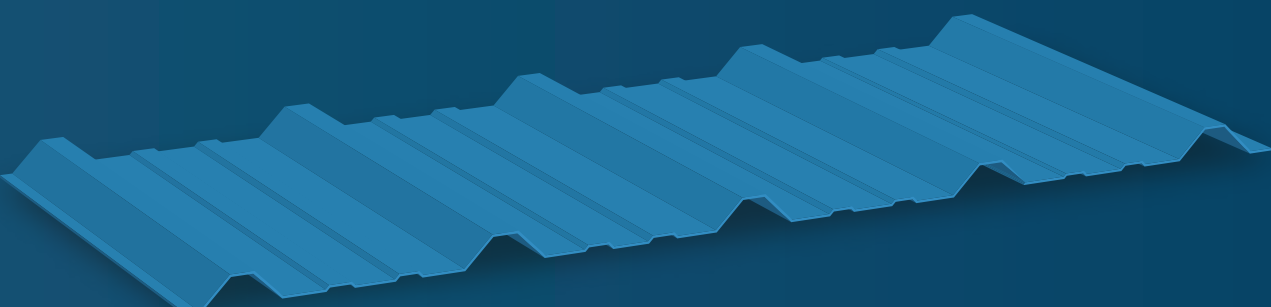
Measures surface erosion of the coating over time, indicating potential color fading or need for recoating.

PROFILE VARIATIONS

4ft WIDER - DOUBLE TRAPEZOIDAL PROFILE



DOUBLE RIPPED TRAPEZOIDAL PROFILE



SINGLE RIBBED TRAPEZOIDAL PROFILE



TRAPEZOIDAL PROFILE WITHOUT RIB



CHOICE OF THE PAINT DETERMINES THE LONGEVITY OF YOUR ROOF

WHY APL APOLLO CORAL SDP OVER RMP?

SDP

Super Durable Polyester

Superior weather resistance; lasts 2x longer in harsh environments



DURABILITY

Long-lasting vibrancy; retains gloss and color over time



COLOR RETENTION

Ideal for extreme climates, coastal zones, and high-sun exposure areas



APPLICATION AREAS

Offers a premium look with better gloss stability



FINISH & AESTHETICS

Higher upfront cost, but lower long-term maintenance



COST EFFICIENCY

Supports longer life cycles and reduces material waste



SUSTAINABILITY

RMP

Regular Modified Polyester

Standard resistance; may fade or degrade faster under UV or humidity

Moderate fade resistance; may lose shine sooner

Best suited for mild to moderate environmental conditions

Functional finish, but with limited gloss life

Budget-friendly initially, but may require early repainting or replacement

Shorter life span can lead to more frequent replacements

PERFORMANCE COMPARISON

PARAMETERS	SDP	RMP
DURABILITY CLASS AS PER IS15965	CLASS 3	CLASS 1/ CLASS 2
ATMOSPHERIC CLASSIFICATION	C2/C3	C1/C2
CORROSION RESISTANCE AS PER AS/NZS 2728	SALT SPRAY : TYPE 4, CYCLIC CORROSION : TYPE 4	TYPE1/ TYPE 2
UV RESISTANCE	VERY GOOD	POOR
CHALKING RESISTANCE	VERY GOOD	POOR



TESTING FACILITY

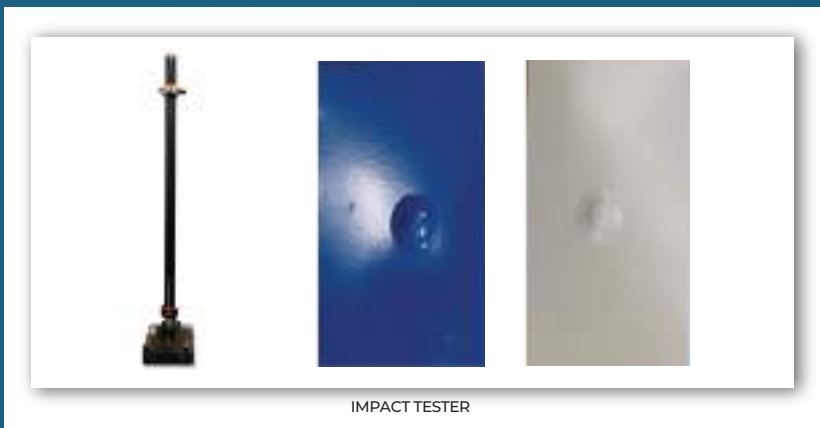
APL APOLLO CORAL PASSES THROUGH STRINGENT QUALITY TESTS



SPECTROMETER



PAINT FILM THICKNESS TESTER



IMPACT TESTER



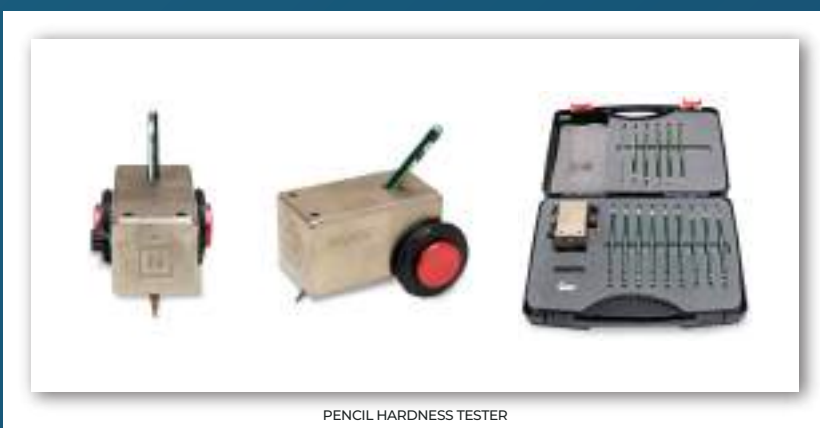
SCRATCH TESTER



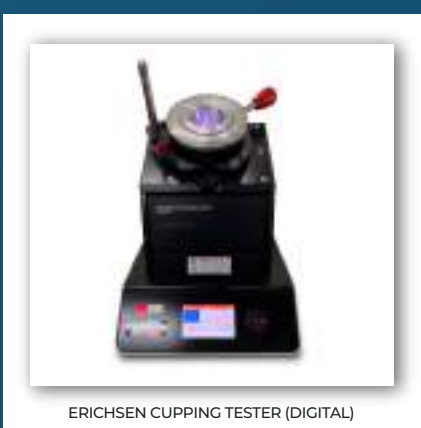
QUV WEATHERING TESTER



SPECTROPHOTOMETER



PENCIL HARDNESS TESTER



ERICHSEN CUPPING TESTER (DIGITAL)



UNIVERSAL TENSILE TESTING MACHINE



SALT SPRAY CABINET



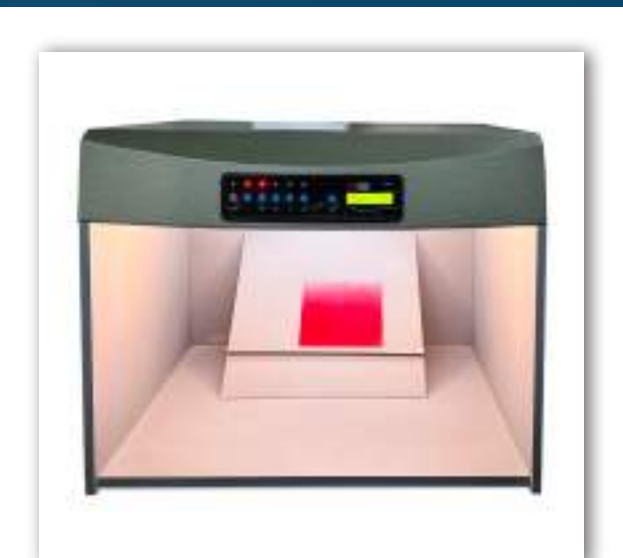
LOCK FORMING TESTING MACHINE



ROCKWELL HARDNESS TESTER



VICKERS HARDNESS TESTER



VISUAL COLOR MATCHING CABINET

EXTENSIVE RANGE OF COLOURS



Metallic Green



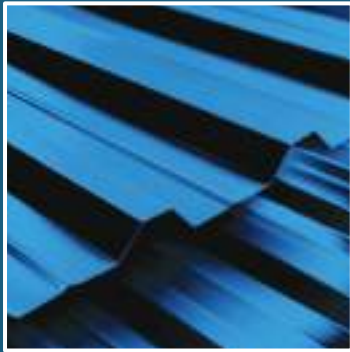
RAL - 6016
(Turquoise Green)



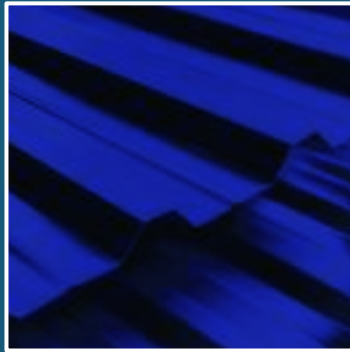
Reliance Green



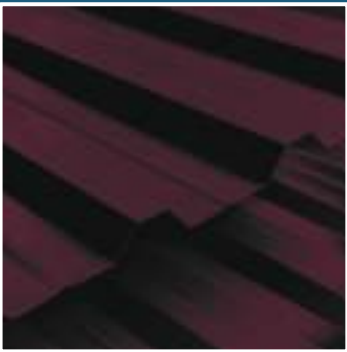
Pepsi Blue



RAL - 5012
(Light Blue)



Royal Blue



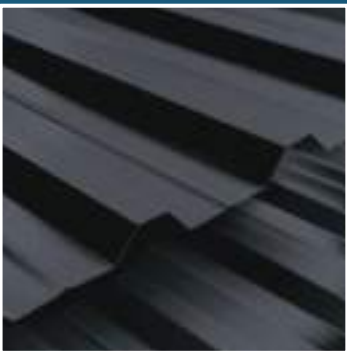
Burgundy Red



Brick Red



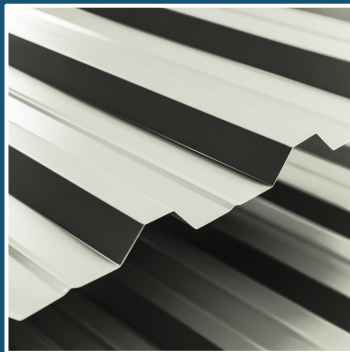
Seco Red



RAL - 7024
(Graphite Grey)



RAL - 7015
(Slate Grey)



RAL - 9002
(Off White)

KEY BENEFITS



Suitable for high temperature areas



Suitable for all weather conditions



Corrosion resistant



High color retention



Longer life span with less maintenance



Better resistance to fading & chalking

MARK OF INGENUITY



Specimen Of Guardfilm



Actual Image Of Hologram

LINE MARKING AT THE BACK

APL APOLLO CORAL 15 YEAR WARRANTY IS 15965 CM/L 5900106733 0.50 MM PPAZ 4 COAT AZ 150 MADE IN INDIA

SHEET THICKNESS RANGE

0.3mm to 1.2mm

QUALITY CONTROL DEPARTMENT

Flat Products Safety and Protection Guidelines of Galvanised/Alu Zinc Colour Coated/CRCAFHC in handling, transportation and storage.

This material handling, transportation, safe storage guideline is applicable to all flat products delivered from ABPL under the following suggestions and recommendations:

1. Handling: The flat products should be handled with proper designed handling equipment and devices like forklift, C hooks, nylon belts, high tensile strap cutters etc. Coils and packets should be properly lashed, choked & covered before transportation. Coils and packets lifting and putting down movement from one place to another should be slow and not in a hurry/rapid and without any jerk. Coils should not be rolled on floor or on truck.

2. Transportation: The coils and packets must be well covered to protect from rain water in transit.

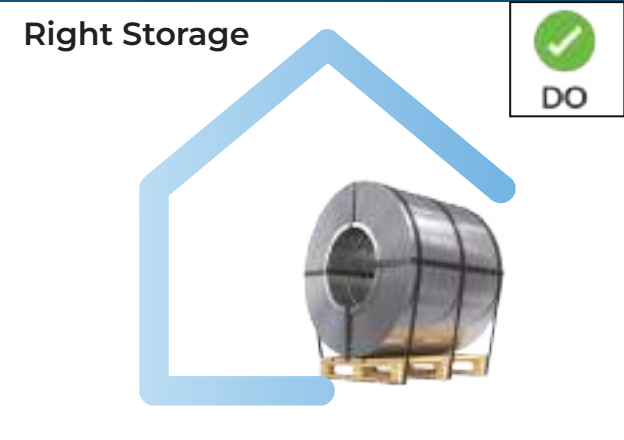
3. Storage: If not required for immediate use, coils and packets should be stacked neatly, clear of ground without any water seepage inside. In case the material is stored in open area, it must be protected from rain and moisture condensation with tarpaulins or similar covers and stacked at an angle to assist free drainage and free air flow below coils and packets.

4. Forming: The equipment should be clean so that oil grease or any foreign particles do not come into coated/painted surface. Sheets should not be dragged over other sheets or equipment surfaces.

5. Leftover debris or surplus items such as fasteners, iron drill particles should be carefully removed each day after completion of installation work from sheet surface.

6. Material with guard film: In case water enters the sheet bundle or coils then the guard film must be removed immediately and the sheet or coil to be dried. The film should be immediately removed after the installation /or within 30 days from the date of receipt of coils/ packets.

7. Durability: Product durability is subjected to environmental conditions in surrounding atmosphere at installation site.



Water Condensation/ Accumulation not allowed/ Failure to keep dry may result in coating damage



CERTIFICATIONS



APL APOLLO BUILDING PRODUCTS
ISO 9001:2015



APL APOLLO BUILDING PRODUCTS
ISO 14001:2015



APL APOLLO BUILDING PRODUCTS
ISO 45001:2018



APL APOLLO BUILDING PRODUCTS
EN 10169:2022

APPLICATIONS

Residential Roofs



Commercial Buildings



Industrial Sheds



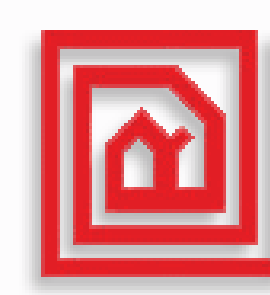
Warehouse Sheds



Product Range



Our Clientele



ENVIRONMENT

At APL Apollo, we are committed to taking care of the environment by implementing several measures for a better and cleaner tomorrow, while ensuring that the entire process is energy efficient. Our Zero Discharge sustainable policy makes sure that all water used in the production process is treated and reused. This reduces industrial water wastage drastically. We have planted trees in and around our premises and we've converted barren lands into green pastures.

Our Network

