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# APL APOLLO

## LUME TUFF

Premium Alu-Zinc Coils

*Quality Roofing Solutions  
Made To Last*



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# 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 groundbreaking 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:

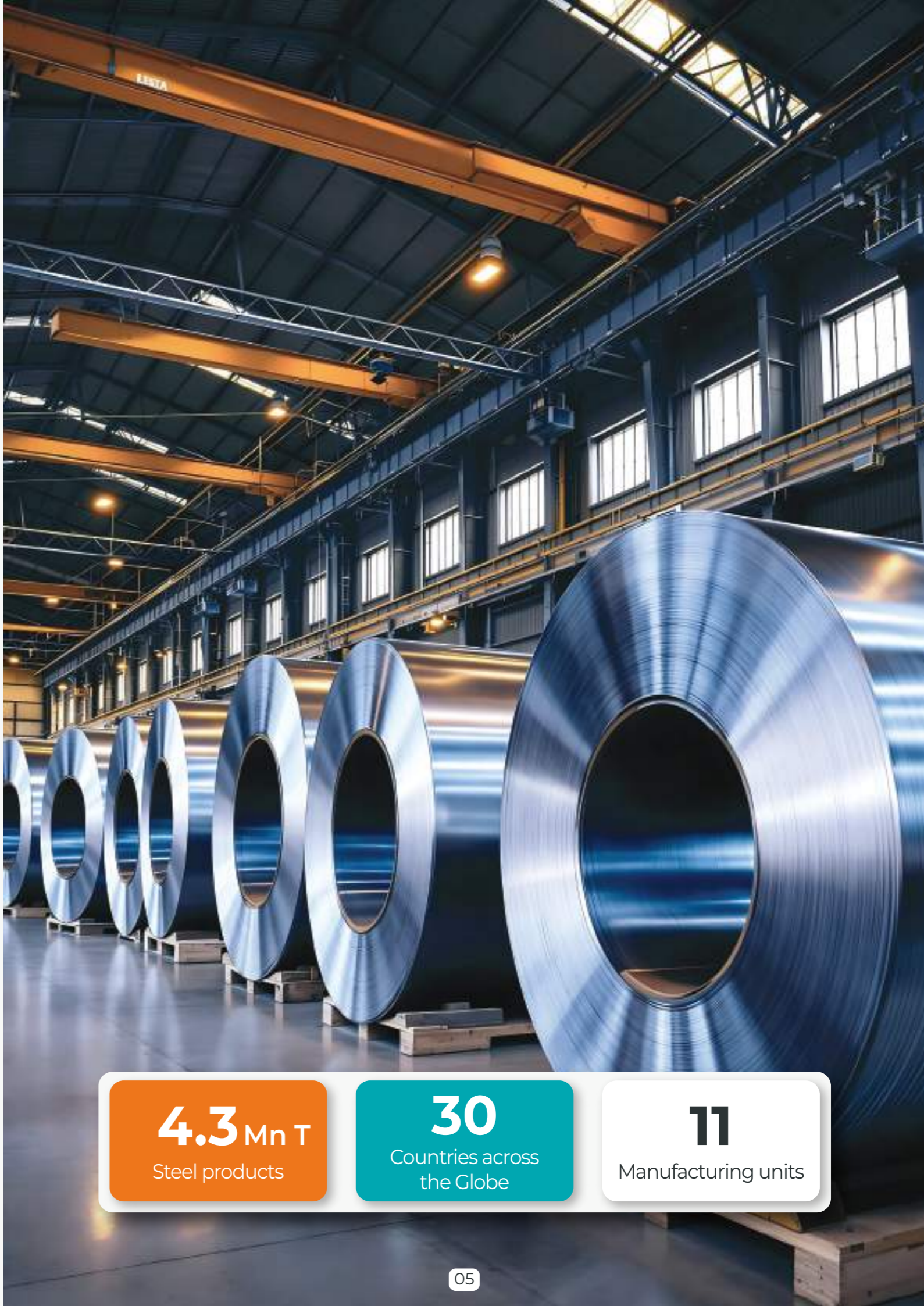
We understand the importance of accessibility. That's why we have developed the largest and most expansive distribution network in the industry. Supported by robust supply chain solutions, our multi-layer network ensures that our products are readily available across India.

## 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 Japanese 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.

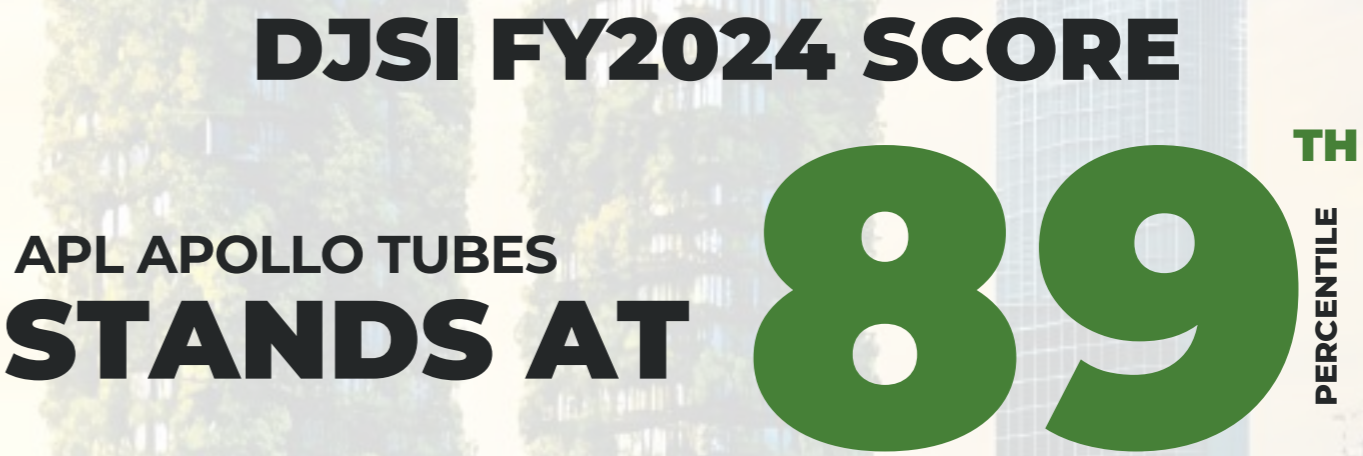
## Water

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 rainwater 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



**(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 LUMETUFF

## LUMETUFF 55% ALUMINIUM-ZINC ALLOY COATED COILS

LUMETUFF metal roofs, coated with Zinc and Aluminium, provide excellent protection in high-temperature, high-precipitation, and marine environments. They offer superior surface protection compared to galvanized roofs, with high corrosion resistance, flatness, and paint suitability. These versatile and durable sheets are widely used for roofing, building panels, walls, ducts, and more.

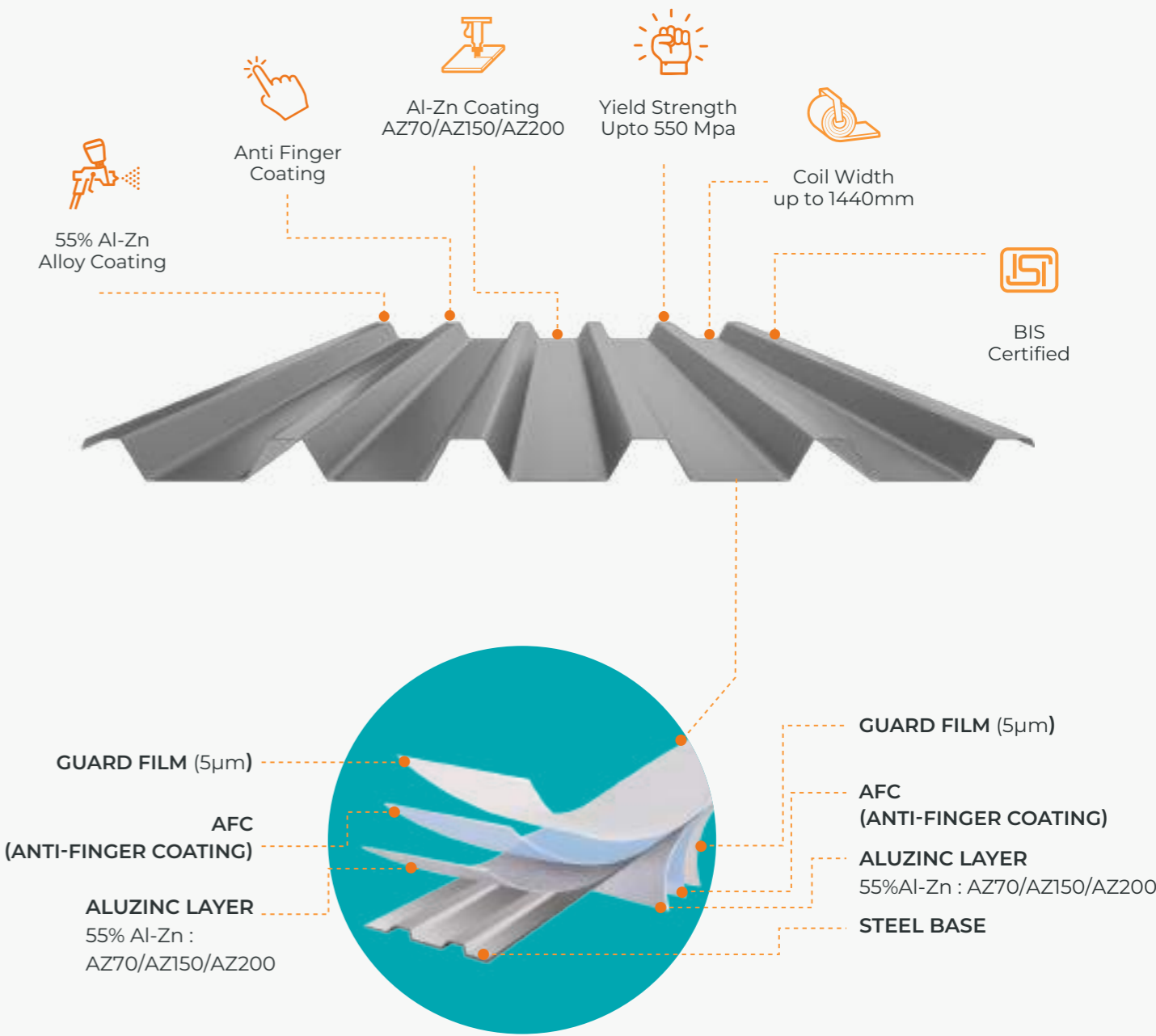
Coated with aluminum and zinc, these metal roofs offer exceptional protection against high temperatures, humidity, and marine conditions. With a sleek finish that exudes sophistication, LUMETUFF redefines durability, ensuring your home shines for years to come. Coated with aluminum and zinc, these metal roofs offer exceptional protection against high temperatures, humidity, and marine conditions. With a sleek finish that exudes sophistication, LUMETUFF redefines durability, ensuring your home shines for years to come.




# WHAT MAKES APL APOLLO LUMETUFF THE PERFECT CHOICE

Crafted from a revolutionary material – Alu-Zinc (Al-Zn) steel – APL Apollo LUMETUFF 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 Lumetuff so unique?


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




KEY BENEFITS




**Superior Electrical Conductivity**  
Better electrical conductivity for enhanced system performance




**Better Heat (Oxidation) Resistance**  
Resisting heat-induced oxidation even at high temperatures for long-lasting durability



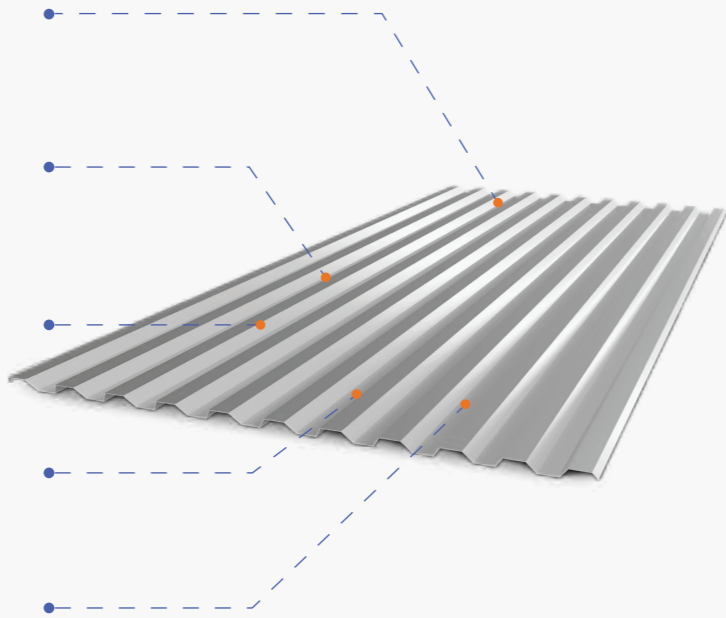
**Better Heat Insulation**  
Enhanced thermal insulation for improved comfort and energy efficiency.



**High Abrasion Resistance**  
Highly durable sheets designed to maintain quality by resisting abrasion



**4x Corrosion Protection**  
Providing corrosion protection four times as effective as galvanized steel.



PRODUCT SPECIFICATIONS

Thickness	0.20mm to 1.20mm
Width	900mm to 1440mm
Quality standards	IS 15961, ASTM A 792 M, AS 1397, EN 10346
Metallic Coating	AZ70, AZ150, AZ200
Yield Strength	300, 350, 550MPa

MARK OF INGENUITY



LINE MARKING AT THE BACK

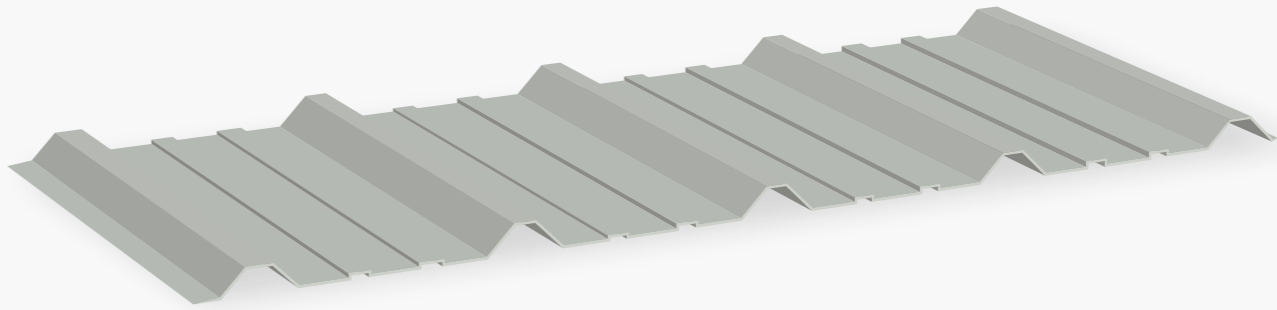
APL APOLLO LUME TUFF PRO 10 YEAR WARRANTY 0.50MM AZ150 GSM W4BGL015B2

SHEET THICKNESS RANGE

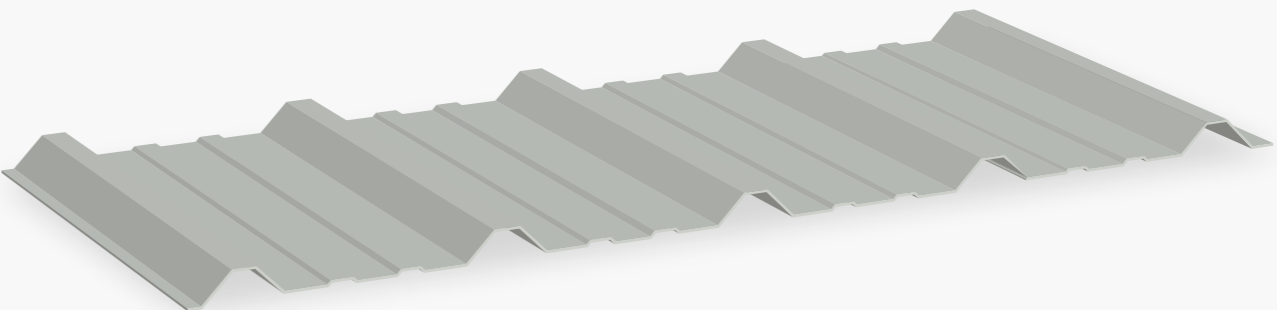
0.3 mm to 1.20 mm

PROFILE VARIATIONS

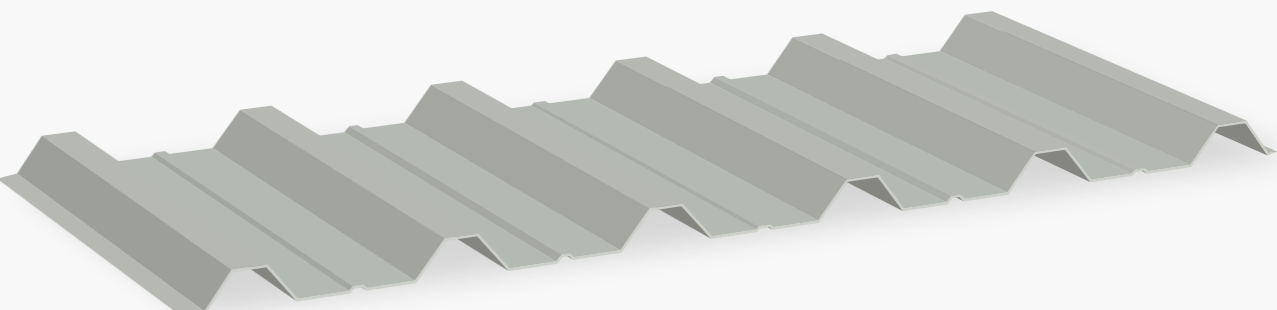
4ft WIDER - DOUBLE TRAPEZOIDAL PROFILE



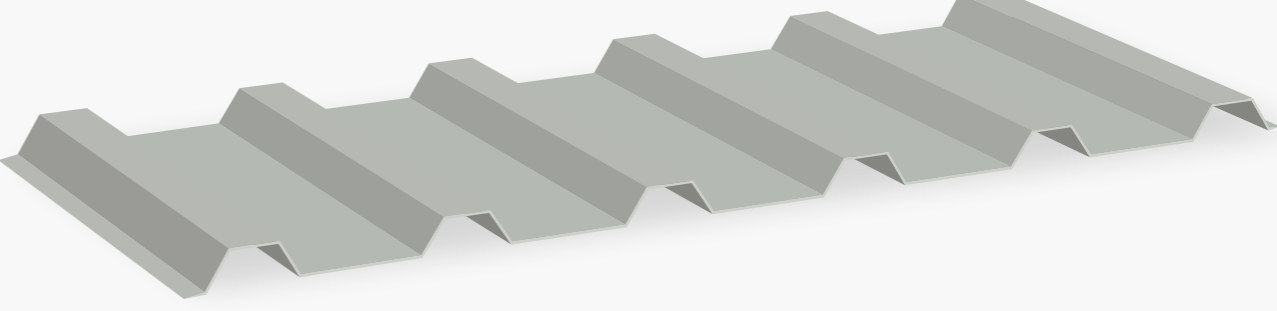
DOUBLE RIPPED TRAPEZOIDAL PROFILE



SINGLE RIBBED TRAPEZOIDAL PROFILE



TRAPEZOIDAL PROFILE WITHOUT RIB



TESTING FACILITY

APL APOLLO LUMETUFF PASSES THROUGH STRINGENT QUALITY TESTS



VICKERS HARDNESS TESTER



ERICHSEN CUPPING TESTER (DIGITAL)



UNIVERSAL TENSILE TESTING MACHINE



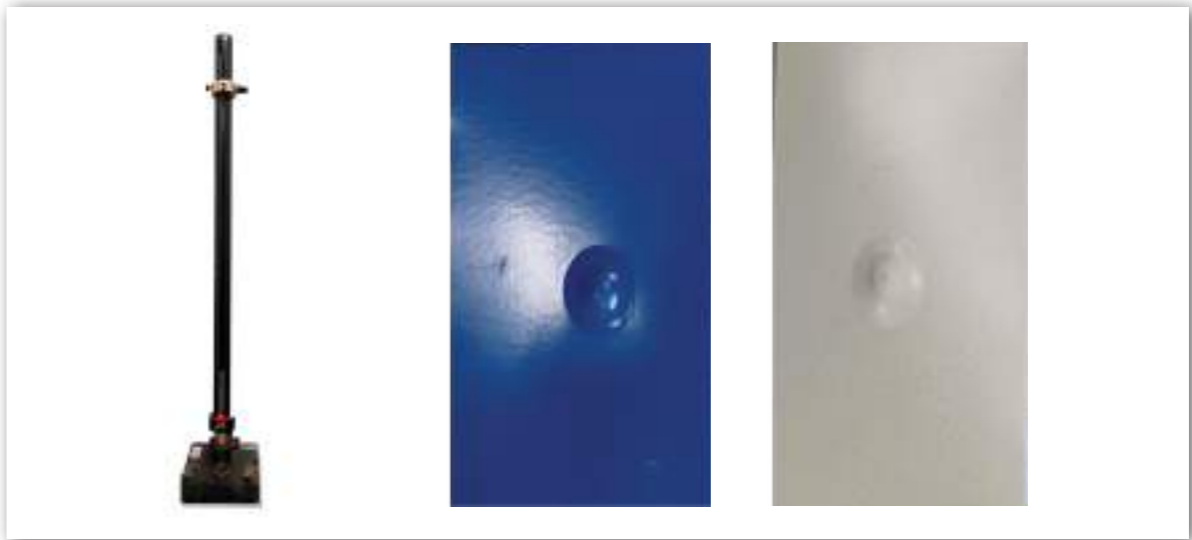
SALT SPRAY CABINET



ROCKWELL HARDNESS TESTER



LOCK FORMING TESTING MACHINE



IMPACT TESTER



SPECTROMETER



BEND TEST MACHINE



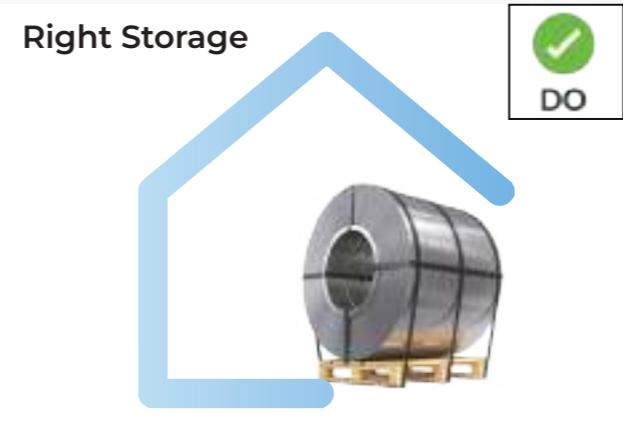
CUTTING MACHINE

# 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 10346:2015

# APPLICATIONS



PEB (PRE-ENGINEERED STEEL BUILDING)



LGFS (LIGHT GAUGE FRAME STRUCTURE)



AHU (AIR HANDLING UNITS)



PIPE JACKETING



AIR CONDITIONER DUCTING



SOLAR STRUCTURE



SILOS

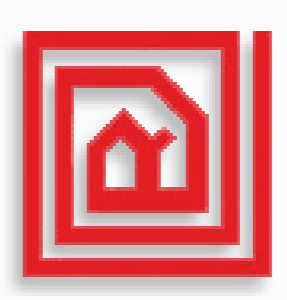


WATER TANK

# 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

