



PLURIMO

Pultrusion & Composite Pvt Ltd

All GFRP Solutions



OPEN TO OPPORTUNITIES

WELCOMING THE ERA OF GLASS FIBRE-REINFORCED POLYMER

ABOUT PLURIMO

Plurimo Pultrusion and Composites Private Limited (PPCPL), established in March 2020, specializes in the design, engineering, production, assembly, and installation of high-quality Glass Fiber Reinforced Polymer (GFRP) composite products and profiles. With a strong focus on sustainability and innovation, PPCPL is driving transformation in the construction and infrastructure sectors by offering advanced alternatives to conventional building materials.

ABOUT FRP

Understanding Fiberglass : Strength, Versatility, and Performance

Fiberglass also known as spun glass, Glass-Reinforced Polymer (GRP), Glass-Fiber Reinforced Polymer (GFRP), or Glasfaserverstärkter Kunststoff (GFK) is a composite material made of glass fibers embedded in a resin matrix. Depending on its intended use, fiberglass is manufactured in various forms optimized for applications ranging from structural components to insulation.

Lightweight yet incredibly strong, fiberglass offers excellent impact resistance, corrosion resistance, and a favorable strength-to-weight ratio. Its inherent flexibility allows it to be molded into diverse shapes, enhancing its utility across industries. Additionally, its high thermal resistance makes it an effective insulation material, serving as a reliable thermal barrier.

These qualities make fiberglass a go-to material in demanding environments particularly in the cooling tower industry where durability, performance, and longevity are critical.

Driving Innovation Through Fiberglass Engineering

At PPCPL, we leverage the superior properties of fiberglass such as corrosion resistance and high thermal tolerance to provide smarter, lighter alternatives to conventional metal components. With industries steadily moving toward weight reduction and material efficiency, fiberglass stands out as a reliable and future-ready solution. PPCPL focuses on developing high-performance fiberglass products that deliver strength, durability, and long-term value across a range of industrial applications.

Plurimo Pultrusion and Composite Pvt. Ltd. has rapidly emerged as a trusted name in the FRP industry, known for its precision-engineered solutions, innovation, and customer-first approach. By delivering high-performance composite products across infrastructure and industrial sectors, we've built a strong reputation for quality, reliability, and tailored expertise.

Diverse Projects 500+

Prominent Clients 100+

Proficient Employees 200+



DIRECTOR'S MESSAGE

"At **Plurimo**, we are driven by the vision of achieving engineering mastery, innovation, and satisfying clients' requirements. We believe the future of industrial applications and infrastructure is in sharp, long-lasting, and sustainable materials, which are GFRP composites. Innovation, adaptability, and precision have always been at our core that denote efforts toward developing products and by products, we mean solutions addressing the world's demanding challenges. We are proud of our devoted employees because our expanding presence, supported by a dedicated team, allows us to strive for enduring alliances."

VISION

To become an internationally recognized company in the composites industry which leads in innovation, sustainability, and engineering while transforming industries with advanced Fiber Reinforced Polymer (FRP) Solutions.



MISSION

- ▶ To provide the most appropriate FRP products that are tailored to the requirements of various clients in the infrastructure and industrial domains.
- ▶ To equip customers with alternatives made from modern materials that are highly durable, efficient, and environmentally friendly.
- ▶ To protect the ongoing investment in value by controlling the technologies, people, and processes that are essential for precision and reliability.
- ▶ To foster lasting alliances based on integrity and performance focused on customer satisfaction and success.

OUR PHILOSOPHY

At Plurimo, we believe that new advancements accompanied with traditional values is a genuine progress. Our philosophy stems from providing intelligent, dependable, and advanced composite solutions that go beyond addressing the contemporary issues faced in industries, aiming instead to create a better future. We place great importance on enduring partnerships, relentless progress, and a profound commitment to our customers, employees and the transformation ecosystem.



FRP/GFRP STRUCTURAL PROFILES

FRP/GFRP Structural profiles are manufactured with fixed cross-section structure by a continuous pultrusion process using fiberglass reinforcements with thermosetting resin matrixes. Pre-selected reinforcement materials such as fiberglass roving, mat, woven fabrics or stitched fabric are drawn through a resin bath in which all materials are thoroughly impregnated with a liquid thermosetting resin.

All the cross section profiles are can pultruded & customized through pultrusion process, using different type resin system such as "Polyster resin, ISO resin & Vinyl ester resin", and also different forms of fiberglass reinforcements.

Fiberglass structure profiles by pultrusion are available in different sections :

TYPES OF STRUCTURAL PROFILES



C CHANNEL



BOX PIPE



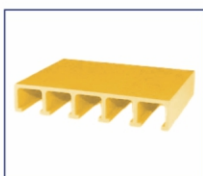
KICK PLATE



L-ANGLE



I-BEAM



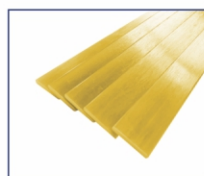
DECK PANEL



POLYSTER ROD



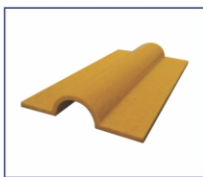
ROUND PIPE



FLAT SECTION



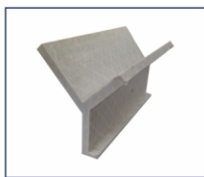
W-SECTION



HAT PROFILE



OMEGA



Y-SECTION



POLE



BENCH PROFILE

ADVANTAGES

High strength • Light weight • Anti-corrosion • Electrical and thermal insulation
Flame retardant • Electro-magnetic transparency • Low coefficient of thermal expansion
Low temperature capabilities • Anti-age • Free maintenance • Free to design new moulds.

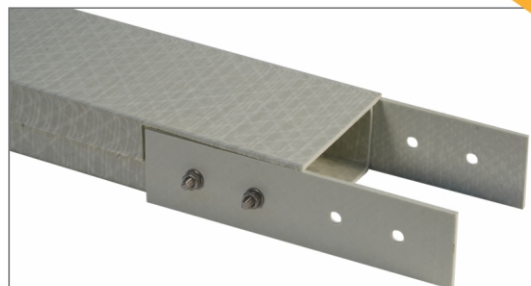
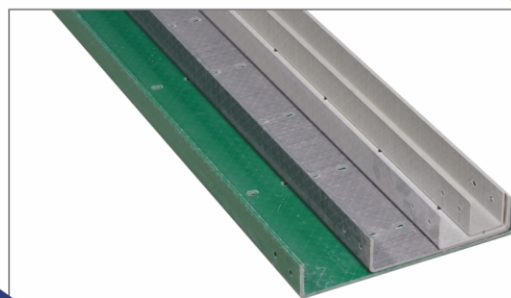


FRP/GFRP CABLE TRAYS

Plurimo provides customers with a wide range of FRP cable trays. The pultrusion process is used to create the cable trays, guaranteeing a very high and steady level of quality. Plurimo FRP cable trays are of the highest quality and resistant to all types of chemical assault. The world's most corrosive and structurally demanding settings can use FRP cable trays. This includes water treatment facilities, chemical plants, offshore platforms, and a wide range of other sectors.

FRP PULTRUDED TYPE CABLE TRAY

COVER SIZES (W x H x T)	COVER SIZES (W x H x T)
50 x 25 x 3	56 x 15 x 3
50 x 30 x 3	
75 x 25 x 5	81 x 15 x 3
75 x 50 x 3	
75 x 50 x 4	
100 x 30 x 4	106 x 15 x 3 106 x 28 x 3
100 x 30 x 5	
100 x 30 x 6	
100 x 50 x 3	
100 x 50 x 4	
100 x 50 x 5	
100 x 75 x 3	
150 x 50 x 3	156 x 15 x 3 156 x 28 x 3
150 x 50 x 4	
150 x 50 x 5	
206 x 50 x 3	206 x 15 x 3 208 x 28 x 4
200 x 50 x 4	
200 x 50 x 5	
300 x 50 x 4	306 x 15 x 3 308 x 28 x 4
300 x 50 x 5	
450 x 100 x 20F x 4	450 x 3
600 x 100 x 20F x 4	600 x 3



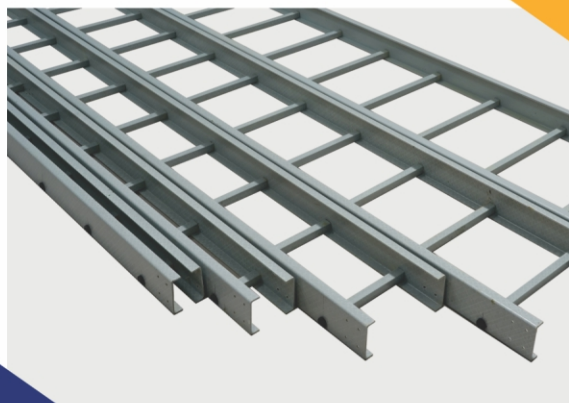
ACCESSORIES

Bend, Cover Clamps, Bolts, Coupler & other accessories are also manufactured with perforated cable trays.



FRP/GFRP LADDER CABLE TRAYS

Two Longitudinal side rails connected by rungs at regular intervals. These structures come with a solid or perforated bottom with integrated or separate longitudinal side rails.



CABLE TRAY SIZES (W x H x F x T)

150 X 75 X 25 X 3
150 X 75 X 50F X 3
150 X 75 X 50F X 4
150 X 100 X 50F X 4
200 X 75 X 25F X 3
200 X 75 X 50F X 3
200 X 75 X 50F X 4
200 X 100 X 30F X 4
300 X 75 X 25F X 3
300 X 75 X 50F X 3
300 X 75 X 50F X 4
300 X 100 X 50F X 4
400 X 75 X 25F X 3
400 X 75 X 50F X 3

CABLE TRAY SIZES (W x H x F x T)

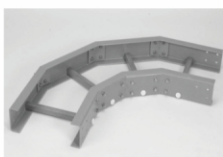
400 X 75 X 50F X 4
400 X 100 X 30F X 4
450 X 75 X 25F X 3
450 X 75 X 50F X 3
450 X 75 X 50F X 4
450 X 100 X 30F X 4
500 X 75 X 25F X 3
500 X 75 X 50F X 3
500 X 75 X 50F X 4
500 X 100 X 30F X 4
600 X 75 X 25F X 3
600 X 75 X 50F X 3
600 X 75 X 50F X 4
600 X 100 X 30F X 4

Note : FRP Cable Trays are manufactured as per NEMA FGI - 1993

CABLE TRAY ACCESSORIES



TEE BEND



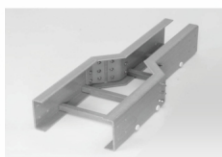
90 DEGREE
HORIZONTAL BEND



90 DEGREE INSIDE
VERTICAL BEND



90 DEGREE OUTSIDE
VERTICAL BEND



REDUCER



SPECIFICATION OF FRP CABLE TRAY

PARTICULARS	FRP PULTRUDED CABLE TRAY	FRP LADDER CABLE TRAY
Resin	Polyester – Isophthalic – Vinylester	Polyester – Isophthalic – Vinylester
Glass	ECR Boron Free Grade	ECR Boron Free Grade
Length	3 – 6 Meters	3 Meters
Width	50 – 600 mm	150 – 1200 mm
Rung Construction	NA	FRP Square Tube
Rung Spacing	NA	300 mm
Coupler Plates	GRP/FRP with SS Bolts	GRP/ FRP with SS Bolts
Angle Of Bends	90° – 45°	90° – 45°
Radius Of Bends	300, 450, 600 mm	300, 450 , 600mm
Fire Retardant	As Per IS 6746	As Per IS 6746

FEATURES OF FRP CABLE TRAY

▶ CORROSION RESISTANT

It provides resistance to practically all chemicals in the harshest situations.

▶ LIGHTWEIGHT

The density of aluminum is four times that of steel.

▶ IMPACT RESISTANCE

Returns to the original position without deflection or distortion.

▶ NON-CONDUCTIVE

It does not conduct electricity.

▶ DIMENSIONAL STABILITY

Pultruded items have a lower coefficient of thermal expansion than aluminum and steel.

▶ MAINTENANCE-FREE

There is no need for rework such as painting or cleaning.

▶ LIFE CYCLE

Long durability guarantees the lowest life cycle cost.

▶ EASY TO INSTALL

There is no welding required, and it is simple to cut and drill.

▶ UV RESISTANT

Built-in UV resistance protects against direct sunlight exposure.

▶ LOW INSTALLATION COST

Due to its modest weight, it is simply installed by anybody."



FRP/GFRP REBAR

FRP (**Fiberglass Reinforced Polymer**) Rebar is a spiral wrapped structural reinforcing rod made from a combination of fiberglass roving and resin. FRP Rebar has been developed as a non-corrosive alternative to steel in concrete reinforcement and is suitable for any structural or architectural application where a material that is corrosion resistant, lightweight or non-conductive is required.



FEATURES OF FRP REBAR

- ▶ **Lightweight/ High Strength**
- ▶ **High Impact Strength**
- ▶ **Great Flexural Strength**
- ▶ **Non-Corrosive**
- ▶ **Unsusceptible to Chemical**
- ▶ **Electrically Non-Conductive**
- ▶ **Low Water Absorption**



ADVANTAGES OF FRP REBAR

▶ **COST**

Cost is an important factor for any construction industry. Out of all the material available in the market, GFRP is a cost effective material that provides best quality for construction.

▶ **STRENGTH**

Rebar is twice stronger than steel reinforcing bars. The quality of GFRP Rebar is far better than other materials.

▶ **WATER RESISTANT**

Rebar is water resistant, this property makes it fit to be used near water facilities, dams, docks, etc.

▶ **MECHANICAL STRENGTH**

Rebar has a specific resistance better than steel rebars.

▶ **NON-MAGNETIC**

Due to its Non-Magnetic character, it is suitable for hospitals, MRI rooms, laboratories & other uses.

▶ **TEMPERATURE**

Rebar has high melting point, hence can withstand high temperature stress. Power stations, tunnels, mines etc., where the temperature is always high, GFRP Rebar is good alternative.

▶ **WEIGHT**

The GFRP Rebar is almost 1/4th in weight providing more quality than steel rebar.

▶ **LONG LIFE SPAN**

Rebar provides over 100 yrs of life span of buildings or construction.

▶ **THERMAL CONDUCTIVITY**

Low thermal conductivity makes it highly useful in construction industry.

▶ **SIZE**

GFRP Rebar can be manufactured in customized length and width.





GFRP REBAR VS. STEEL REBAR COMPARISON

SPECIFICATIONS	METAL CLASS A-III	FIBERGLASS
Material	Steel	Polymer based epoxy resin
Strength at stretching, MPa	390	Upto 1200
Relative extension, %	25	2.2
Coefficient thermal conductivity, W / (m0 C)	46	0.35
Elastic modulus	200000	55000
Linear coefficient extensions, ax 10-5 / 0C	11 - 13	6 - 10
Density, t / m	7.8	1.9
Corrosion resistance to aggressive environments	Corrosive	Non - corrosive
Thermal conductivity	Heat conductive	Non - conductive
Electrical conductivity	Electrically conductive	Non - conductive - is a dielectric
Released profiles	June - 1980	Apr - 2020
Length	Rods 6 - 12 m long	Can be customized
Durability	As per building codes	Predicated durability not less than 80 years



USAGE AND APPLICATIONS



BRIDGES



ROADS



BUILDINGS



HIGHWAYS



SWIMMING POOL



SEPTIC TANKS



FRP/GFRP FENCING

FRP Fencing is a complete solution to safety in both residential areas and industries. It is used for protection and isolation, and can be applied to many areas that require rapid installation. It has many advantages: Easy installation, Anti-corrosive and cost effective.

TYPES OF FRP FENCING



FRP BOUNDARY FENCING



FRP TRANSFORMER FENCING



FRP PULTRUDED GRATING FENCING



FRP RAILINGS



FRP/GFRP HANDRAIL

FRP handrail is a composite material of glass fiber and resin.

FRP is widely used in industries as a substitute for steel and wood due to its high fiber content and high strength. FRP handrail corrosion resistance and has a long life, which makes it suitable for outdoor handrails, guardrails, floors etc.

TYPE	Fiberglass Railing Systems
MATERIAL	ECR Glass Fiber Resin (ORTHO, ISO, VE, PHENOLIC) Filling (ATH)
SIZE	Can be customized
COLOR	Can be customised as per RAL shades available

APPLICATIONS OF FRP HANDRAIL

- ▶ **INDUSTRIAL PLATFORM \ SEWAGE INDUSTRY \ WALKWAY ETC.**
- ▶ **STAIRCASE STEP GUARDRAIL**
- ▶ **HIGHWAY MIDDLE AND TWO SIDES GUARDRAIL**
- ▶ **PETROLEUM OPERATION PLATFORM GUARDRAIL**
- ▶ **RESIDENTIAL VILLA GUARDRAIL**
- ▶ **COASTAL GUARDRAIL**
- ▶ **CHEMICAL STORAGE TANK GUARDRAIL AND CHEMICAL PLANT**
- ▶ **RAILWAY TWO SIDES GUARDRAIL**
- ▶ **PARK GARDEN GREENING GUARDRAIL**
- ▶ **SEWAGE TREATMENT POND GUARDRAIL**
- ▶ **PLATFORM AND WALKWAY GUARDRAIL**





FRP/GFRP MOULDED GRATINGS

Plurimo is striving to become one of India's leading manufacturers of moulded grating, Renowned for its high strength, corrosion resistance in the harshest environment, long life and safety. We manufacture from carefully selected resin system, our grating is designed to deliver many years of reliable service, outperforming the traditional materials and made as per the high international standards.

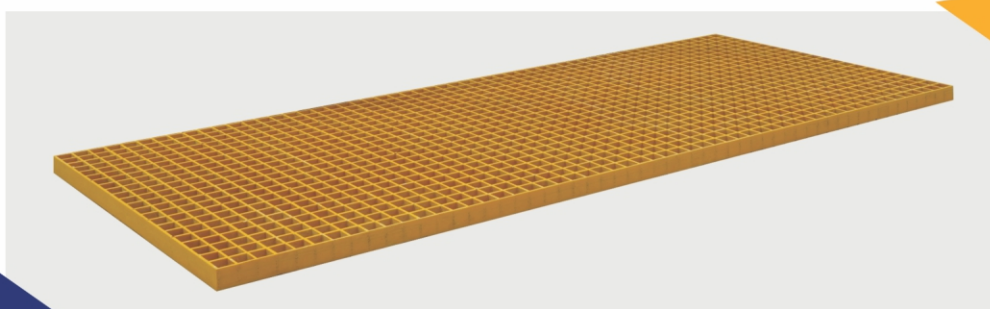
FRP/GFRP gratings are light-weight, easy to fabricate and install. Their acceptance in many major industries has made them the first choice over steel gratings, not only for their performance but cost competitiveness as well. Compared with steel at the installed cost stage, low maintenance and longevity span means a significantly lower life cycle cost than steel.

GRFP Moulded Gratings are available with Polyester, vinyl ester or phenolic resin. All kinds of resin are self-extinguishing and UV-stabilized.

FRP MOULDED GRATINGS SIZES

FRP Moulded Gratings are made into various mesh patterns and surface for demanding applications.

PRODUCT CODE	HEIGHT (MM)	MESH SIZE (MM)	RIB THICKNESS (MM)	SHEET SIZE (MM)
SM 20 x (38 x 38)	20	38 x 38	7-5	3660 x1220
SM 25 x (38 x 38)	25	38 x 38	7-5	3660 x1220
SM 30 x (38 x 38)	30	38 x 38	7-5	3660 x1220
SM 38 x (38 x 38)	38	38 x 38	7-5	3660 x1220



APPLICATIONS

- Walkways
- Platforms
- Trench covers
- Staircase
- Floorings
- Foot Bridges
- Step Treads
- Swimming pool overflow
- Fencing
- Elevated car parking
- Earth pit covers
- Etc...

INDUSTRIES

- Chemical
- Marine
- Oil & Gas
- Power
- Food & Beverage
- Desalination
- Cements
- Constructions
- Pharmaceuticals
- Pulp & Paper
- Recreation
- Water & Waste Treatment
- Railways
- Shipping
- Transportation
- Architectural
- Telecommunications

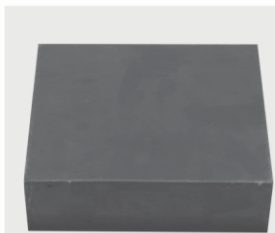


COMPARISON OF FRP GRATINGS WITH CONVENTIONAL MATERIAL

PARAMETERS	PLURIMO FRP GRATINGS	HOT DIPPED GI
Life Span	High	Moderate
Strength To Weight Ration	High	Low
Life Cycle Cost	Low	High
Corrosion Resistivity	Very High	Moderate
Chemical Resistivity	Nil	Moderate
Electrical Conductivity	Low	High
EMI / RFI Transparency	High	Nil
Installation Cost	Low	Moderate
Handling	Very Easy	Difficult
Anti Skid	Available	NA
Color Range	Available	NA
Load capacity (1 Meter Span)	Upto 700 kg	Upto 1000 kg

CONSTRUCTION OF FRP GRATINGS

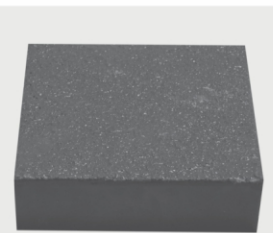
GFRP Moulded Gratings are produced by wet moulding and hot curing in a heated mould. The reinforcement consists of continuous fibre glass rovings in alternating layers, so the loads are distributed evenly in all directions. Regularly Moulded GFRP Gratings have a polyester resin matrix. Glass content is approximately 35%. Standard colours are green, yellow or grey. other colours are also available as per RAL codes.



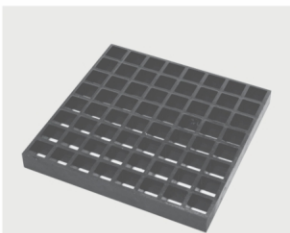
GRATING : PLAIN PLATE



GRATING : CHEQUERED PLATE



GRATING : ANTI SKID PLATE



GRATING : ANTI SKID



FRP INSTRUMENT AND JUNCTION BOX CANOPY

Plurimo is a striving manufacturer of FRP instrument and junction box canopy refers to a protective enclosure made of Fiber Reinforced Polymer (FRP) that is used to shelter instruments and electrical/electronic junction boxes from environmental factors like rain, sun, dust, corrosive chemicals, and mechanical damage especially in industrial or hazardous environments.

KEY FEATURES OF FRP INSTRUMENT & JB CANOPIES

Material :

- Made from FRP (a composite of resin and glass fibers),

Features :

- Corrosion resistance (ideal for chemical plants, refineries, marine environments)
- UV resistance
- Lightweight yet strong
- Fire Retardant
- Non-conductive (good for electrical safety)

Design :

- Sloped or curved roof to drain rainwater
- Hinged or removable panels for easy access to instruments/JBs
- Louvers or vents for ventilation (if required)

Mounting Options :

- Wall mounted
- Floor-standing
- Pole-mounted (sometimes with clamps or brackets)

Common Applications

- Oil & Gas Plants
- Petrochemical Units
- Water Treatment Facilities
- Power Plants
- Outdoor Electrical Installations

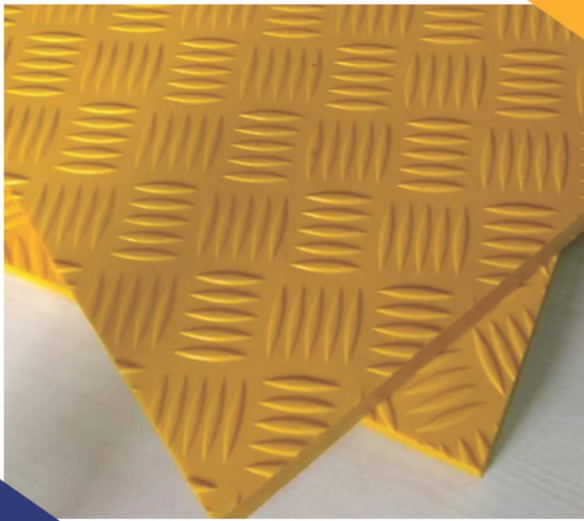
Key Benefits

- Long service life even in harsh conditions
- Low maintenance
- Customizable design
- Quick installation
- Light Weight





OUR GFRP CREATIONS



FRP CHEQUERED PLATE



FRP COOLING TOWER PROFILES



FRP TREFOIL CLAMP



FRP PALLET



FRP LADDERS



FRP SHEETS



CERTIFICATIONS



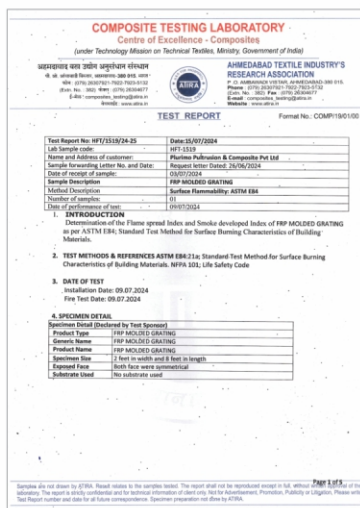
ISO 45001 : 2018



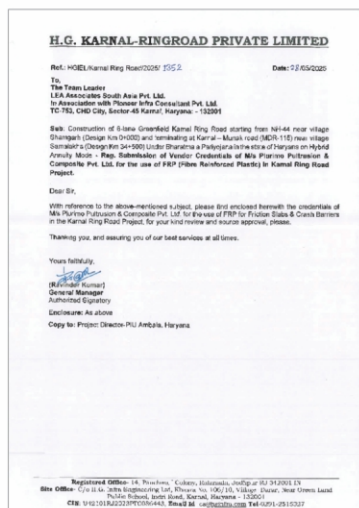
ISO 14001 : 2015



ISO 9001 : 2015



ASTM E84 - ATIRA



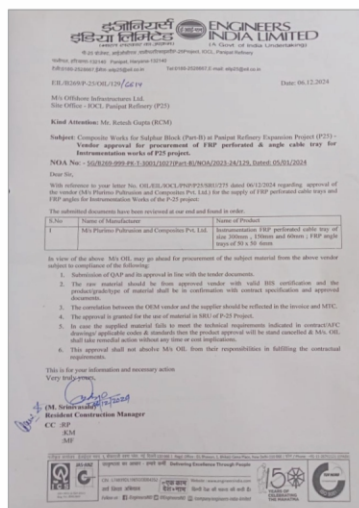
Source Approval – NHAI (Karnal Highway)



Source Approval – NHAI Projects (Vijayapura)



CTI 137 Compliance



EIL Approval letter



UL Compliance



OUR SUPPORTERS

TATA STEEL



adani
Solar



zydus
Dedicated To Life



Jacobs



TATA POWER



M Y SUN



& many more...



SEE VIDEO



WEBSITE

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