



**EVEREST COMPOSITES PVT. LTD**

## **FRP (GRP)**

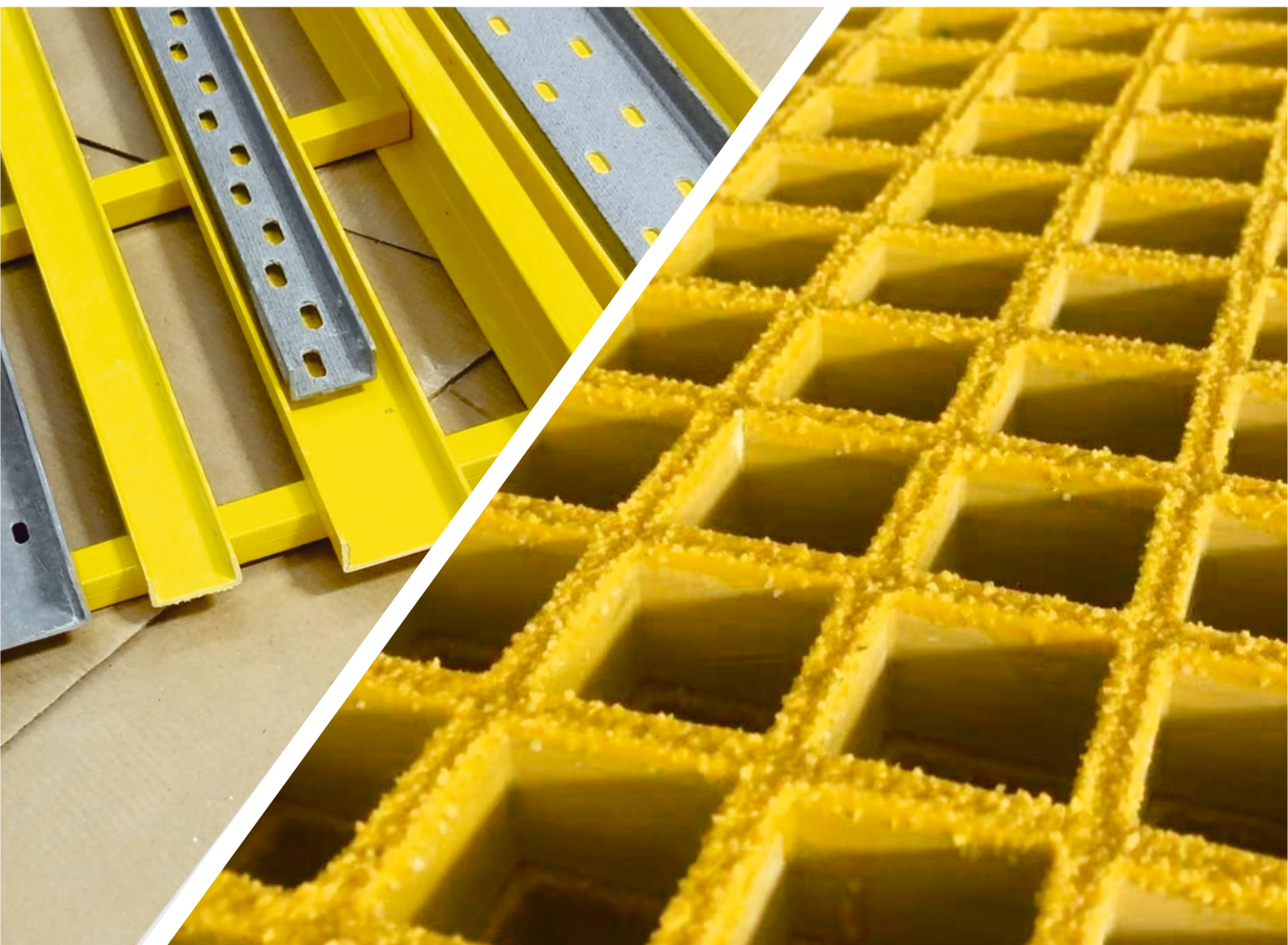
**FIBREGLASS REINFORCED POLYMERS  
STRUCTURAL PRODUCTS**

**CORROSION FREE SOLUTION FOR INDUSTRIES  
& INFRASTRUCTURE PROJECTS**



**3 DECADES**

*Redefining Construction*



NON CORROSIVE

LIGHT WEIGHT

LONG LASTING

[everestfrp.com](http://everestfrp.com) | [everestcomposites.com](http://everestcomposites.com)



**ECPL**

**FIBREGLASS  
REINFORCED  
POLYMERS**

## INTRODUCTION

### Leading from the front

Everest Composites Pvt. Ltd. (ECPL) is involved in the manufacturing of composite construction products since 1991. Also Distributors & outsourcing products by contract manufacturing. ECPL is known for its strong technological capability. Scalability and adaptability that are required to meet the constantly changing prerequisites of our clients.

Leveraging its industry expertise, stringent standards and driven workforce, ECPL Delivers unmatched service & best quality products. This has made Everest Composites and Innovative pioneer and leader in the industry.



### VISION

Continued Competency

To establish Everest Composites as a leading manufacturer & supplier of Innovative, Cost-effective & high-quality products through continued technological innovation and competent manufacturing strategies



### MISSION

Innovative and Reliable

To deliver greater value, reliability, exceptional quality and economical solutions through Consistent innovative & become a market leader in composite materials industry.

### WHY US

- ▷ 500+ CORPORATE CLIENTS
- ▷ 25+ YEARS OF EXPERIENCE IN THE
- ▷ COMPOSITE INDUSTRY
- ▷ BEST QUALITY PRODUCTS
- ▷ RELIABLE & SECURE SERVICES
- ▷ ECO FRIENDLY PROCESS

### OUR DIVISIONS

- ▷ EVEREST GRC / GFRC
- ▷ EVEREST FRP / GRP
- ▷ EVEREST PREFAB
- ▷ FRP DOORS
- ▷ PPGI ROOFING SHEETS
- ▷ EVEREST FACADE & INFRASTRUCTURE

### TURNKEY SOLUTIONS

- ▷ DESIGN
- ▷ FABRICATION
- ▷ MANUFACTURING
- ▷ INSULATIONS
- ▷ COMPLETE FACADE EXECUTIONS

## FRP/GRP PANEL PRODUCTION LINE WITH AUTOMATIC GEL COATING MACHINE MAKE FRP / GRP SKY LIGHT PANELS



### FRP SHEETS

(FIBRE REINFORCED PLASTICS )

#### CAPACITY

More than  
**4,20,000m<sup>2</sup>**  
Per Annum  
(CLM: continuous laminating machine)

### FRP

(MOULDING)

#### CAPACITY

More than  
**1,00,000m<sup>2</sup>**  
Per Annum

### FRP

(MOULDED GRATINGS)

#### CAPACITY

More than  
**50,000m<sup>2</sup>**  
Per Annum

ENVIRONMENT FRIENDLY PRODUCTS

MAINTENANCE FREE

EXCELLENT EDGE AND CORNER STRENGTH

IMPROVED SURFACE DETAILS AND QUALITY FINISH

Everylight skylight is an excellent substitute for conventional hand-mouldry FRP/GRP Sheets and also for the expensive polycarbonate sheets. Everylight is durable and proves as a "Value for Money" product in the long run.

- Everylight roofing & side cladding system
- Available in different shapes, profiles & colours
- Translucent non-glare and crinkle diffused sheets
- Industrial Building & warehouse
- Fire Retardant
- Natural Light-Saves Electricity Cost



New facility under construction, currently using partial constructed facility for production



**2 LAKH**  
SQ.FT. LAND

**60K +**  
MANUFACTURING  
AREA

3D IMAGE

## OUR ASSOCIATIONS

### IIID

Indian Institute of  
Interior Designer

### IPUA

Indian Polyurethane  
Association

### CREDAI

Confederation of Real Estate  
Developers Association of India

### BAI

Builder Association  
of India

### RCBS

Rotary Club of  
Sayjinagari Vadodra  
(3016)

### JITO & JBN

Jain International  
Trade Organization

### BNI

Business Network  
International

### FGI

Federation of  
Gujarat Industries

## CERTIFICATE



TATA CHEMICAL



RIAI- ROYAL INSTITUTE OF THE  
ARCHITECTS OF IRELAND) -2018



TATA TRUST



DIVYA BHASKAR

## OUR TEAM



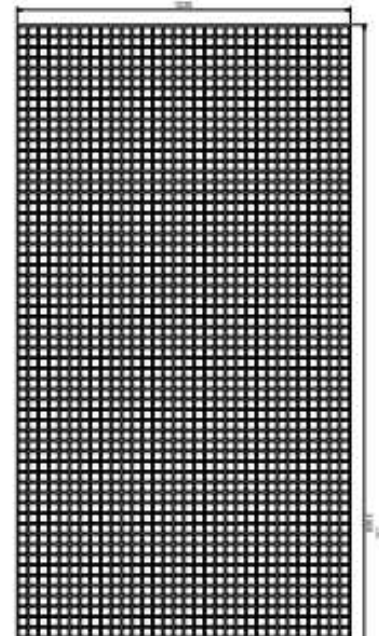
1220

3660

## FIBREGLASS MOULDED GRATING

Everest Composites can now manufacture and supply a wide range of FRP/GRP moulded gratings. Moulded gratings provide an efficient and cost effective solution for all types of floorings, walkways and decking areas where long term performance is required for very corrosive or chemical intensive areas.

FRP Moulded Gratings are manufactured from thermoset resins reinforced with glass fibres making them the only choice to replace conventional steel and aluminium grating systems in harsh chemical/corrosive environments. **FRP Moulded Gratings have load bearing capacity in both directions of the panel therefore, not requiring continuous side support.**



### ADVANTAGES OF FRP GRATINGS

Slip Resistant	Anti-Corrosion	Chemical Resistant	Maintenance Free	Economical	UV Protection
Long Service Life	Low Installation Cost	Fire Retardant	Electrically & Thermally Non Conductive		

Everest Composites' moulded gratings have 1/4th the density of steel and 2/3rds of aluminium which in turn simplifies the installation and handling of the grating panels.

### RESIN SELECTION

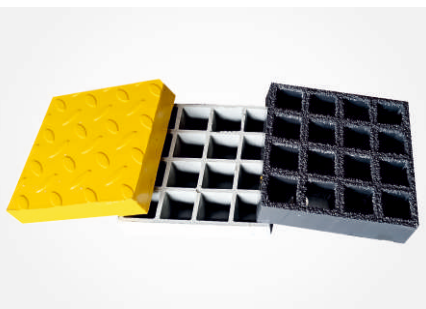
Everest Composites' FRP grating systems combine unmatched corrosion resistance with strength, long product life, and safety. With custom resin systems we can produce high quality grating panels for all sorts of applications including highly volatile and corrosive environments.

Resin Base	Description	Flame spread rating
Isophthalic Polyester	Industrial Grade Corrosion resistance & fire retardant	Class 1, 25 or less
Isophthalic Polyester	Industrial Grade Corrosion resistance in acidic environment	Non fire retardant
Vinyl Ester	Superior Corrosion resistance & fire retardant	Class 1, 25 or less
Phenolic	Low smoke and superior fire retardant	Class 1, 5 or less

#### NOTES:

1. It is advised not exceed the MAX RECOMMENDED LOAD at any given span. Max recommended load represents a 5:1 factor of safety on ULTIMATE CAPACITY.
2. Ultimate Capacity represents a complete and total Failure of the grating. Max recommended and ultimate loads do not change as a result of adding a 3mm thick covered plate.
3. Walking loads typically 250-300kg/m<sup>2</sup> maximum are recommended for pedestrain traffic. deflections for worker comfort are typically limited to the lesser of 10mm or clear span divided by 125; for a firmer feel, limit deflection to the lesser of 6 or clear span dived by 200.
4. The Allowable loads in this table are fore Static Load conditions at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a maximum of one-half the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance. For applications at elevated temperatures, consult our technical team
5. All gratings were tested in accordance with the proposed standard of the Fiberglass grating manufactures Council of the American composites manufactures Association .





## TYPICAL APPLICATIONS

- Flooring
- Catwalks
- Greenhouse
- Shelving
- Trench Covers
- Stairs
- Drain Cover
- Ramps
- Platform & Walkways
- Assembly Lines

## AREAS OF APPLICATION

- Corrosive chemical process
- Weathering like snowfall
- Spillages of chemicals on the roof
- Coastal areas
- Heavy load bearing areas
- Areas affected by corrosive vapor
- Heat insulating requirements

## SIZE

FRP Moulded gratings made into Various Mesh patterns and surface suitable for demanding applications.

Product Code	Height	Mesh Size (mm)	Rib Thickness (mm)	Open Area (%)	Sheet Size (mm)
ECPL 25 (38x38)	25	38x38	5-7	75	3660x1220
ECPL 30 (38x38)	30	38x38	5-7	75	3660x1220
ECPL 38 (38x38)	38	38x38	5-7	75	3660x1220

## COMPARISON WITH CONVENTIONAL MATERIALS

PARAMETERS	FRP GRATINGS	GI	SS
Life Span	Very High	Moderate	High
Weight	Lightest	Heavy	Extremely Heavy
Life Cycle Cost	Very Low	High	High
Corrosion Resistivity	Excellent	Low	Low
Chemical Resistivity	Very High	High	Moderate
Electrical Conductivity	Non- Conductive	Conductive	Conductive
Installation Cost	Low	Moderate	Moderate
Strength	High Strength-to-Weight Ratio	High Strength	High Strength
Anti Skid	Available	Na	Na
Maintanance	Maintenance Free	Low Maintenance	Low Maintenance
Fabrication	Easy Field Fabricated	Complex Fabrication	Complex
Impact Resistance	High	Medium To Low	Low

## SM 38 x (38x38): 38MM THICK & SQ. MESH 38MM X 38MM

SPAN	UNIFORM DISTRIBUTED LOAD IN KG/SQ.MT													
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000
400	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.2	1.8	2.3	2.8	3.3	3.7	4.2
600	0.6	1.0	1.6	2.0	2.6	3.0	3.9	4.9	7.7	9.9	11.8	13.8	15.8	
800	1.8	3.0	4.7	5.9	7.7	8.9	11.8	14.8						
1000	4.3	7.1	11.4	14.3										
1200	8.9	14.8												

## FRP PULTRUDED GRATING

Pultruded gratings are composed of a series of parallel bearing bars - with either a T- or I- shaped profile - kept in place by several perpendicular cross-rods. Because pultruded gratings are unidirectional in strength they can support heavier loads in longer spans making them the ideal choice for more critical applications.

Everest Composites can supply a wide range of FRP pultruded gratings based on the intended application.

### FRP PULTRUDED GRATING USED

- FLOORING
- TRENCH COVERS
- PLATFORMS
- WALKWAYS
- REFINERIES
- WORK BOATS
- ACCESS AND WELL HEAD PLATFORMS
- OFFSHORE INDUSTRY
- TRANSPORT INDUSTRY
- MARINE INDUSTRY



## FRP CHEQUERED PLATE

Chequered plate flooring is installed in the plants/areas, where there are chances of skidding or spilling. FRP Chequered plates are used at various chemical industries, CETP plants, oil and gas industry, pharmaceutical industry and more. Moreover, FRP Chequered plates are used as flooring in construction sites as well. FRP Chequered plates are found to be best used in food trucks too. We at Everest Composites can manufacture and supply a wide range of options for these customized chequered plates.

- Finish : pre-pigmented/painted  
Thickness : 3 mm, 4mm, 5mm, 6mm, 8mm, 10 mm  
Sizes : As per requirement  
Color : Gray, yellow, or as per requirement



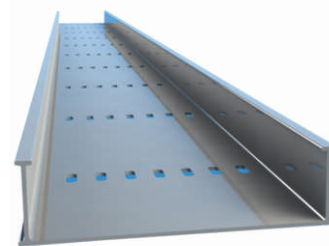


## FRP CABLE TRAY

FRP cable tray support systems are ideal for areas where traditional materials like metals get easily corroded. Everest Composites can supply a wide variety of FRP cable tray systems as per the required requirements.

## ADVANTAGES

Anti Corrosion	U.V. Resistant
High Strength	Easy to Install
No Earthing	Non Toxic
Good Electrical Insulation	Low Thermal Conductivity



**Cable Management Systems are available in Ladder type cable tray and perforated type cable tray.**

### FRP LADDER TYPE CABLE TRAY

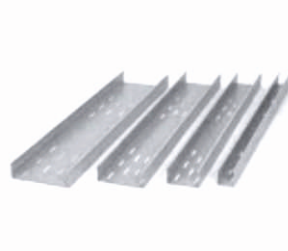


W/O COVER



WITH COVER

### FRP PERFORATED TYPE CABLE TRAY



W/O COVER



WITH COVER

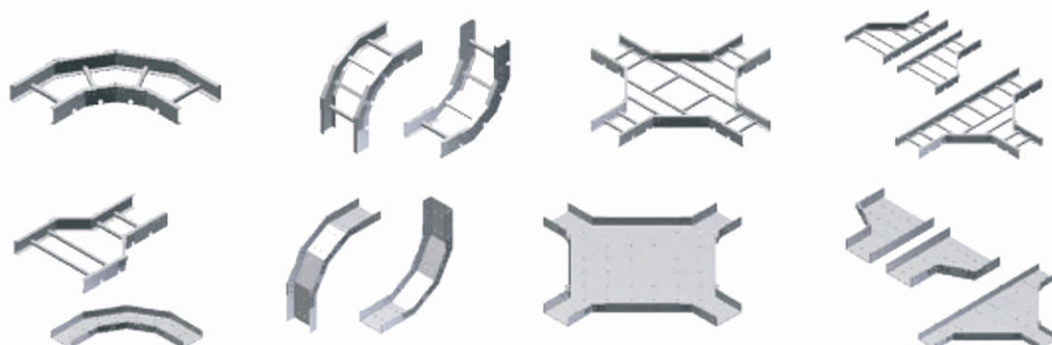
## ACCESSORIES

FRP Coupler Plates	FRP Cover Clamps	Blind Plates
FRP Expansion Plates	Trefoil Clamp	Divider Strips
FRP Angle Plates	Cable Ties	SS Fish plate and Hardware.
FRP Adjustable Splice Plates (Vertical & Horizontal),	FRP Hold Down Clip	FRP/SS Hold Down Clamp

## FRP GRP CABLE TRAY FITTINGS

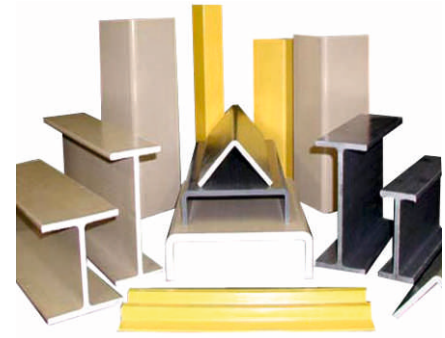
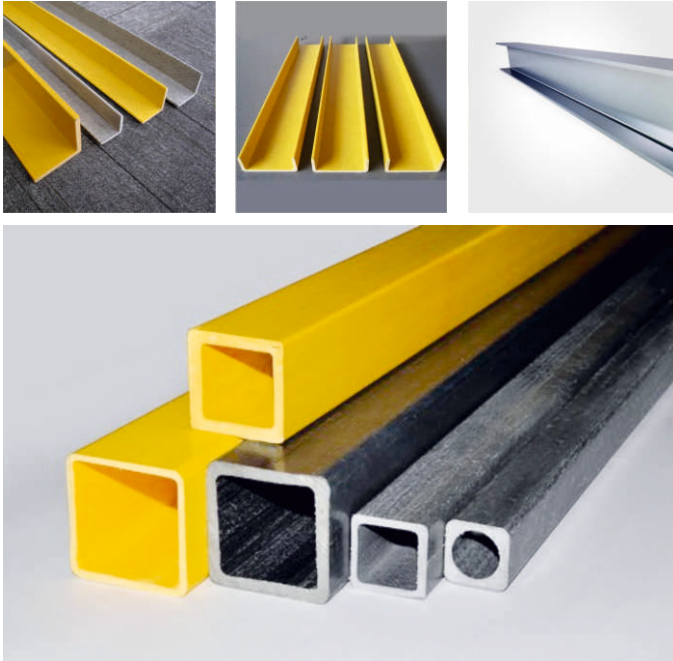
GRP FRP cable trays are manufactured for a comprehensive array of cable management requirements. Created from glass armoured thermoset fire resistant resins, our each cable support system is designed and manufactured with sturdy metals, mostly steel and aluminium, excluding their corrosion, electrical conductivity and weight problems.

We supplies FRP GRP cable trays in varied sizes along several fittings like bends, tees, cross, reducers, etc. for every large or small project. Leading the industry with extensive collection of covers and fittings,



## FRP SECTIONS

ANGLE | C CHANNEL | I BEAM  
SQUARE BOX SECTION | RECTANGLE BOX SECTION



Everest Composites has been in the FRP sections dealing business for a long time. Our FRP sections exemplify supreme quality which is possible because our sections are crafted from tested raw material.

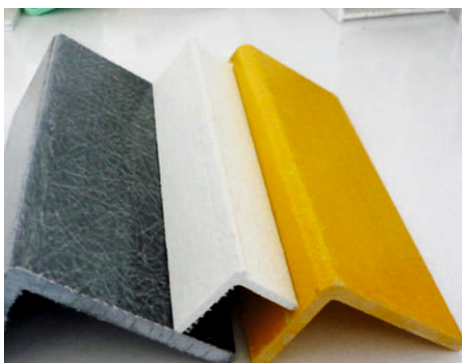
FRP sections are great because the sections have the precision that you require and the qualities that FRP is popular for. FRP lends extreme resistance to corrosion, weather, flame, etc. Apart from this, FRP sections are lightweight and also have strength that even the strong metals cannot lend. Since FRP is non-magnetic, pultruded sections made from FRP are ideal for machines that are crafted from iron or other magnetic metals.

## FRP PULTRUDED STRUCTURAL SHAPES

Pultruded structural shapes are a product of a combination made from Fiberglass reinforcements and thermosetting resin system. **We are Offering more than 150 Standard and custom Pultruded shapes having Surface veil to provide Corrosion and UV resistance. We can design & offer pultrusions for different applications and environments as per your requirements.** We manufacturing facilities are ISO 9001:2015 certified. This ensures highest quality standards for producing FRP/GRP Structural Pultruded shapes. A set quality system designed to test on Pultruded profiles assures the end user that the structural members meet the published minimum criteria.

### FEATURES

- Corrosion Resistant
- Slip Resistant
- Electrically & Thermally Non Conductive
- Low Maintenance
- Fire Retardant
- Low Installation Cost
- Long Service Life
- UV Protection



## FRP ANGLE

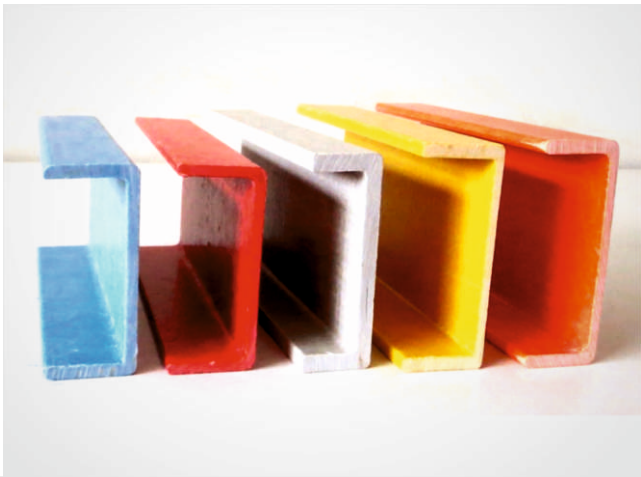
We are offering a high-quality range of FRP Angle that is extensively used at construction sites. Our skillful professionals only use well-tested raw material and cutting edge technology while manufacturing of these angles in adherence with set industry defined guidelines. These angles are available in various specifications at market leading prices. Supplying premium quality FRP Angle Rigid in design, these are commonly used in power plants, chemical plants, refineries and marine industries. Besides being manufactured from qualitative mild steel and the latest technology, these FRP Angle are properly checked by our quality experts. These are available with us in various sizes and dimensions at affordable price.





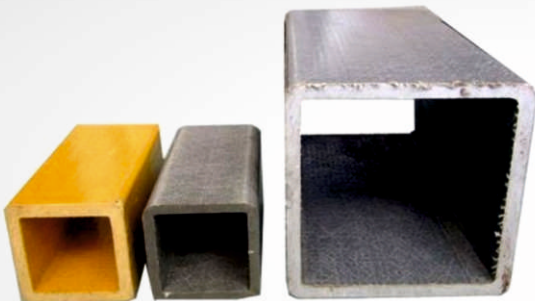
## FRP C CHANNEL

We have come out as one of the most dedicated and reliable supplier of FRP C Channel Profile and the products made by us are made available with all advanced features to match the industry expectations. The experts of our company make appropriately mixing of glass with resin to design this product and hence these are able work for a long time. Raw materials sourcing are done from our trusted vendors only. We make sure to check the quality of the finished FRP C Channel Profile so that our customers remain satisfied with our services.



## FRP I BEAM

We have uniquely positioned ourselves as a dependable firm, engaged in supplying a commendable array of FRP I Beam. This beam is used in construction industry. To manufacture this beam, we use finest quality FRP. clients can obtain this beam from us in different sizes and specifications as per their requirements. We check this FRP I Beam on durability and sturdiness parameters to provide the best range to clients.



## SQUARE BOX SECTION

We are supplying premium quality FRP Rigid in design, these gratings are commonly used in power plants, chemical plants, refineries, swimming pools and marine industries. Besides being manufactured from qualitative mild steel and the latest technology, these gratings are properly checked by our quality experts. These gratings are available with us in various sizes and dimensions at an affordable price.

Usage	Domestic & Industrial
Surface Treatment	Coated
Product Type	Hollow Section
Material	FRP

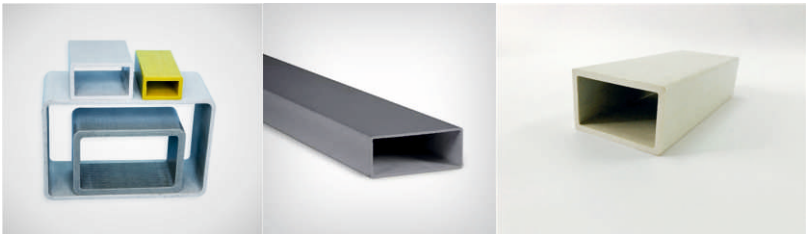
Thickness	6mm
Color	Grey
Shape	Square

Usage	Domestic & Industrial
Material	FRP
Technique	Pultrusion

## RECTANGLE BOX SECTION

SPECIFICATIONS

Thickness	As per Specification
Color	Grey, Yellow
Section Shape	Square
Usage	Domestic & Industrial
Material	FRP
Technique	Pultrusion



## FRP HAND RAILING SYSTEM



FRP Hand railing and FRP ladder system is designed to meet superior corrosion resistance, long-life and a low maintenance. These FRP Hand railing and FRP Ladders are light in weight and easy to fabricate compared to steel. No welding required so no need to stop plants for installation. There is a lot of saving on labour and plant down time cost, so the life cycle cost of hand railing and ladder system is significantly lower than of steel ones.

The components of hand railing and ladder system are made using pultrusion process meeting minimum mechanical properties shown in the Structural shapes Coupen properties table. Depending on the requirement these products are available in different resin systems.

## FRP GRP DECORATIVE LIGHTING POLES & SIGN BOARD

### Features and Benefits of FRP GRP Decorative Lighting Poles

We are distinguished suppliers of FRP / GRP Lighting poles. Quick in the assessment of the electrical conductance and water resistance of the products. We are dealing of FRP light poles, GRP light poles that can be utilized as decorative poles in the garden, parks, and other places. Besides FRP poles and GRP poles, we also supply FRP tent rods to various merchants.

Our creative outlines for decorative FRP light poles make us unique and the best lighting lamps and poles providers in the industry. All our designs carve out the precision architectural taste of the clients. These are anti rust, anti chemicals, easy to install and cost effective range of FRP lighting poles.



### COMPARISON – FRP/GRP POLES V/S METAL SWAGED POLES

Features	GRP/FRP Poles	Metal Poles
Corrosion	Non Corrosive	Highly Corrosive
Aesthetics	Great	Adequate
Earthing	Not required	Required
Life	Very Long	Moderate
Maintenance	Maintenance Free	Very High Maintenance
Weight	Very Light Weight	Very Heavy
Colours	Color Pigmentation (UV Resistant)	Hand Coating from outside
Painting	Non Required	Frequent Painting Required
Relocation	Easy	Difficult
Mounting	Foundation required / Optional	Concrete Foundation
Transportation Cost	Very Less	Very High
Installation Cost	Very Less	Very High
Construction	Single	Multiple
Electrical Conductivity	Electrical Insulator	Conductive

### Application

- Street Light Poles
- Traffic Light
- Sign Boards
- Installation of lights in chemical plants.
- Lighting in Parks, colony, Parking etc.
- Directional sign on roads
- Advertisement boards etc.
- Flag Poles
- Telephone Lines & many more

### Types of Poles

Cylindrical | Conical | Square





FIBREGLASS REINFORCEMENT BARS



**EVEREST COMPOSITES PVT. LTD. - VADODARA, GUJARAT IS INTRODUCING FOR THE FIRST TIME V.ROD FIBRE-GLASS REINFORCED POLYMER (FRP) REBAR.**

**V.ROD is manufactured by Pultrall Inc. - Canada.** Everest Composites Pvt. Ltd. is the exclusive distributor for V.ROD in India.

#### WHAT IS FRP REBAR?

FRP reinforcement bars are made of glass fibers and resin. They are very resistant in tension and are made with vinyl ester resin to resist corrosion. The fibers provide the stiffness properties to the bars, while the vinyl ester resin provides the corrosion resistance property for extreme use in chemical or alkaline environments.



## "The Solutions to Corrosion in Concrete Construction"

#### WHY FRP REBAR?

Steel rebars are subject to corrosion. **Corrosion causes the steel rebars to expand which further causes the concrete to crack.** Once cracked, the concrete allows even more corrosive agents to get in and accelerate the deterioration process which can cause the failure of the entire structure.



#### APPLICATIONS

- Compared to conventional steel rebars, FRP rebars are specifically optimal for the following types of structures.
- Structures subject to harsh chemicals or de-icing salts.
- Structures requiring magnetic and electrical neutrality.
- Structures or walls submerged in salt water or near coastal areas.
- Structures subject to corrosive agents.
- The solution to corrosion in concrete construction

#### ADVANTAGES

As explained above, FRP rebars do not rust even when exposed to the harshest conditions. V.ROD FRP rebars can offer more than 3 times the tensile strength when compared to steel rebars. These FRP rebars are also 4 times lighter than steel rebars making it much easier to handle and reduce the installation and transportation time and costs. Lastly, FRP rebars presents electromagnetic neutrality which means that it will not cause any interference when subjected with strong magnetic fields or when operating sensitive electronic instruments. Thus, FRP rebars are ideal for MRI machine rooms, aluminum smelters, electrical underground enclosures, toll roads, monorail tracks, and many other such applications

**4x Lighter  
Than Steel**

**2.5x Stronger  
Than Steel**

**Corrosion  
Resistant**

**Radio/cellular  
Waves Permeable**

**Resilient**

# FASTEST GROWING INDUSTRIES

## SEGMENTS



REAL ESTATE



INFRASTRUCTURE



RESIDENCE &  
COMMERCIAL COMPLEX



TEMPLES



AIR PORTS



COLLAGE



RAILWAY STATIONS



HOSPITAL



SCHOOL



PHARMACEUTICAL



MARINE



PAPER



PORTS



GOVERNMENT  
ORGANIZATIONS



COMMERCIAL  
COMPLEX



RESORTS



INDUSTRIES



HOTELS



A UNIT OF



### REG. OFFICE & PLANT 1

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### PLANT 2

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