



ABOUT US :

Eclectic Composites Pvt. Ltd. (ECPL), owned by Mr. Chinmay Sanjay Tokey, began as a trader of FRP products from various manufacturers. Leveraging technical and commercial expertise, we established our own production unit in Khed Shivapur, Pune, in 2020. Additionally, we operate sister concerns in diverse fields such as automation, electrical components manufacturing, textiles, private label garment manufacturing, and bespoke designer clothing, all serving Pune for the past 28 years.

ECPL, based in Pune, Maharashtra, India, specializes in designing and manufacturing composite products for various industries. Our strong design, R&D, and technical teams enable us to develop high-quality products for sectors including infrastructure, power, chemical, telecommunication, PSUs, aerospace, and automotive. Our manufacturing facilities across Maharashtra, are committed to consistent quality, with stringent third-party testing as per relevant standards.

ECPL's production units house machinery imported from Europe and the United States, ensuring superior quality and finish. Our skilled and experienced workforce delivers products precisely as per clients' requirements, on time.

We design, develop, and manufacture composite products in-house, including FRP manhole covers, gratings, stormwater drain systems, precast structures, motor housings, junction boxes, and other emerging composite solutions. Our competitive pricing makes us a preferred choice in the construction and other target markets.

Understanding and addressing the complexities and deadlines faced by our customers, we strive to support their projects to successful completion. Besides offering off-the-shelf items, we specialize in custom-made products tailored to specific project needs. In addition to our core products, we provide comprehensive services, including consulting, site surveys, design and engineering, detailed and priced bills of quantity, prime contractor status, project management, logistics, site management, installation, commissioning and integration, as-built drawings, after-sales support, quality control, occupational health and safety, project closure, and warranty/guarantee.

MULTIPLE COMPOSITES MANUFACTURING PROCESS :

1. Continuous Filament Winding Process
2. Hand Lay Up Process
3. Pultrusion Process
4. Sheet Moulding Compound Process
5. Spray Lay Up Process
6. Vacuum Forming



FRP TANKS



Our company offers durable and custom - shaped FRP storage tanks for various fluid applications, including water, acids, alkalis, and fire water. Each tank undergoes rigorous quality testing to ensure long - lasting performance.

Recognized for their strength, durability, and exceptional finish, our tanks are inspected by skilled professionals to guarantee reliability. We source premium raw materials from leading vendors and offer cost - effective solutions.

Our advanced manufacturing techniques and adherence to strict quality standards make us a preferred supplier across India, providing innovative and diverse product ranges that meet current market demands.

KEY CHARACTERISTICS

- Excellent resistance to corrosion and weathering
- Superior mechanical and physical strength
- High strength-to-weight ratio for enhanced performance
- Exceptional durability for long-term use
- Smooth internal finish promotes better flow, reducing pump energy demands
- Outstanding abrasion resistance and low thermal conductivity
- Immune to galvanic and stray electrical currents, offering excellent thermal insulation
- Stable dimensions and adaptability to various applications
- UV-resistant and visually appealing
- Lightweight, flexible design ensures ease of handling and installation
- Simplified fabrication processes, including cutting, drilling, and joining
- Efficient insulation properties
- Low-maintenance requirements with no operational interruptions
- Economical and budget-friendly solution

TECHNICAL SPECIFICATIONS

Our FRP tanks and vessels are available in diverse sizes and suited for a wide range of applications.

DESIGN STANDARDS

Adhering to industry-leading standards such as ASME Section X, ASME RTP-1, and BS 4994.

CAPACITY

Available in sizes ranging from 100 liters to 300 kiloliters.

CONSTRUCTION MATERIALS

Constructed using high-quality FRP, molded or filament-wound with resin options including Isophthalic, Bisphenol, Vinylester, and Epoxy.

GRP SMC Tank



GRPSMC Tanks are Glass Reinforced Plastic (GRP) Sheet Moulding Compound (SMC) Tanks. They are widely used for storing water and other liquids due to their high strength, durability, and resistance to corrosion. These tanks are manufactured using a process that combines glass fibres with polyester resin to form a strong, molded product. This makes them ideal for various applications, including water storage, chemical storage, and wastewater treatment. Their lightweight nature and ease of installation also make them a popular choice in residential, commercial, and industrial settings.

FEATURES AND MERITS OF GRP WATER TANK

GRP WATER TANK FEATURES

- SMC Water Tank Features
- Easy installation regardless of space and size. Simple disassembly and reassembly of water tank.
- Hygiene and Durability
- Complete block out of external light for preventing growth of bacteria. Applied stainless steel for the internal structure to prevent corrosion or rust and hot dip galvanized the external structure for corrosion resistance.
- Outstanding Insulation
- Excellent insulation of GRP material itself with eco-friendly polyurethane heat insulating material prevents freeze and water condensation.
- Absolute Water Tightness
- Features absolute water tightness by applying high-stability sealing tape.
- Simple Assembly
- Use of standardized parts that require assembly at construction sites, which facilitate mobility to small spaces, expanding tanks, and reinstalling tanks in a different location.
- Easy to Clean
- The drainage hole located on the bottom of the tank facilitates the cleaning. The square-type manhole maximizes the space enabling easy access by people.
- Antibacterial Water Tank Special production of antibacterial water tank.

MERITS OF GRP WATER TANK



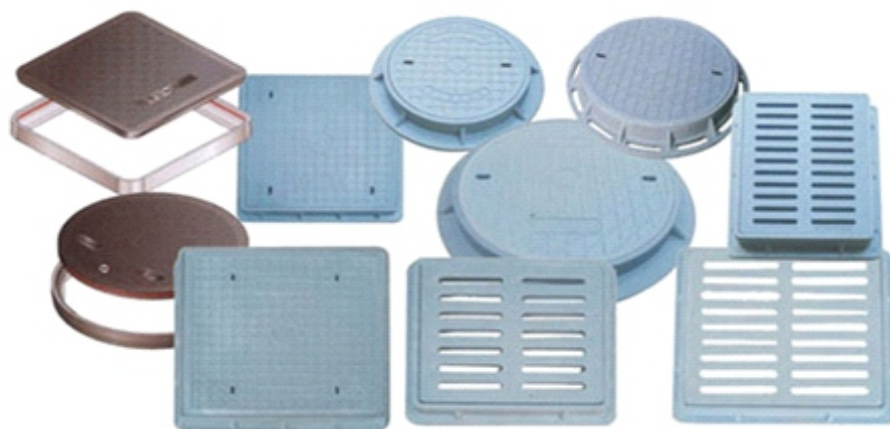
MERITS OF GRP WATER TANK FEATURES

- Use of exclusive panels according to parts and pressure distribution.
- Guaranteed stability and durability by use of exclusive panels.
- Use of standardized panels (1,000x2,000 / 1,000x1,500 / 1,000x1,000 / 1,000x500 / 500x500mm) that enable construction in various sizes and partial replacement and reassembly, if needed.
- Use of assembly bolt in the foundation frame that last for a long time, unlike welded products which the gilded parts are prone to corrode.
- Applied hot dip galvanized flange bar sa reinforcer to minimize distortion by external factors, such as the weather, water pressure, etc., and other defects.
- Applied SMC(Sheet Molding Compound) to minimize contraction and distortion of panels. Maintains good quality of material property that enables easy assembly of parts.
- Applied special insulation materials for outstanding insulation features.

CAPACITY

Available in sizes ranging from 1000 liters to unlimited width and length combinations depending on the space available.

FRP MANHOLE COVER



FRP Manhole Covers are produced using advanced molding technology to ensure superior strength, durability, and performance. These covers are available in various standard sizes and shapes, offering unparalleled resistance to environmental and chemical factors. With options in resin grades, surface finishes, and load-bearing capacities, FRP Manhole Covers cater to diverse industrial needs. Custom sizes can be crafted to meet specific requirements. Leveraging our skilled workforce and cutting-edge technology, we are equipped to handle large-scale orders efficiently and promptly.

TYPES OF MANHOLE COVERS

- Sewer Covers
- Footpath Covers
- Storm Water Drain Covers
- Utility Trench Covers
- Gratings
- Overhead Tank Covers
- Underground Tank Covers
- Recess Covers

ADVANTAGES

- **Corrosion Resistance:** Immune to rust and corrosion, ensuring a long lifespan.
- **Lightweight:** Easier to handle and install compared to traditional materials.
- **High Strength:** Capable of withstanding heavy loads and impacts.
- **Non-Conductive:** Safe for use in electrical and telecommunications applications.
- **Durability:** Resistant to environmental factors like UV radiation and harsh weather.
- **Customization:** Available in various sizes, colours, and designs to meet specific needs.
- **Anti-Theft:** No scrap value, reducing the risk of theft.
- **Low Maintenance:** Requires minimal upkeep, saving time and costs.

LOAD CLASSIFICATION EN 124

Group	Traffic Description	Class	Proof Load kN	Proof Load lbs
1	Areas which can only be used by pedestrians and pedal cyclists.	A 15	15 kN	3,375 lbs.
2	Footways, pedestrian areas and comparable parks or car parking decks.	B 125	125 kN	28,100 lbs.
3	For gullytoops installed in the area of curbside channels of roads.	C 250	250 kN	56,200 lbs.
4	Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.	D 400	400 kN	89,925 lbs.
5	Areas of imposing high wheel loads, e.g. dock and aircraft pavements.	E 600	600 kN	134,885 lbs.

FRP GRATINGS



Eclectic Composites Pvt. Ltd. (ECPL) specializes in the design and manufacture of high-quality FRP (Fiber Reinforced Plastic) gratings. We offer two main types: Molded Gratings and Pultruded Gratings, each tailored to meet the specific needs of various industrial applications. Our gratings provide exceptional performance, durability, and versatility, making them ideal for a wide range of environments.

MOLDED FRP GRATINGS

FEATURES AND ADVANTAGES

1. **Corrosion Resistance:** Ideal for use in corrosive environments, providing long-lasting service.
2. **High Strength:** Capable of supporting heavy loads while maintaining structural integrity.
3. **Lightweight:** Easy to handle, transport, and install, reducing labor costs.
4. **Chemical Resistance:** Withstands exposure to a wide range of chemicals without degradation.
5. **Non-Slip Surface:** Enhanced safety with textured surfaces, reducing the risk of slips and falls.
6. **Fire Retardant:** Available in fire-retardant grades for added safety.
7. **Customizable:** Tailored to specific sizes, designs, and applications.
8. **Low Maintenance:** Requires minimal upkeep, reducing overall maintenance costs.

APPLICATIONS

- Chemical Processing Plants
- Marine and Offshore Industry
- Water and Wastewater Treatment Plants
- Oil and Gas Industry
- Power Plants
- Food and Beverage Industry
- Pharmaceuticals
- Construction and Infrastructure

PULTRUDED FRP GRATINGS

FEATURES AND ADVANTAGES

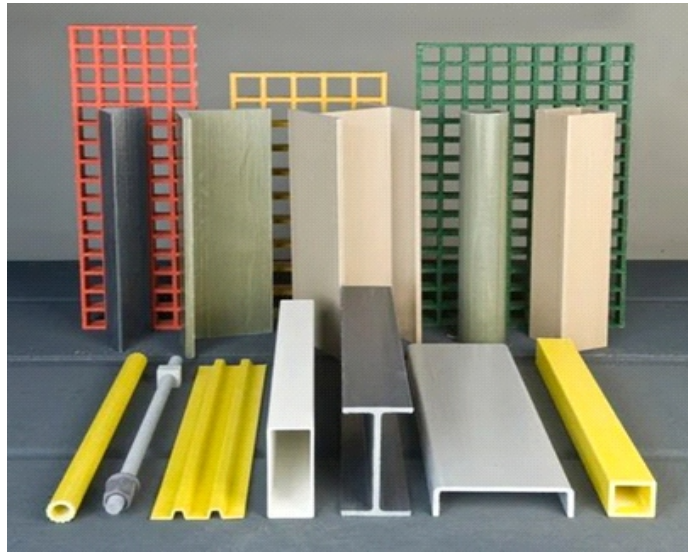
- 1.High Strength:** Exceptional load-bearing capacity, suitable for heavy-duty applications.
- 2.Corrosion Resistance:** Excellent performance in harsh chemical environments.
- 3.Durable:** Long-lasting with minimal wear and tear, ensuring a long service life.
- 4.Non-Conductive:** Safe for use in electrical and telecommunications applications.
- 5.Fire Retardant:** Available in fire-resistant grades for added safety.
- 6.Lightweight:** Easier to install and transport, saving time and labor.
- 7.Customizable:** Available in various sizes, resin options, and surface finishes.
- 8.Low Maintenance:** Minimal upkeep required, reducing overall maintenance costs.

APPLICATIONS

- Walkways
- Trench Covers
- Staircases
- Foot Bridges
- Fencing
- Step Treads
- Platforms
- Earth Pit Covers
- Chemical Processing Plants
- Oil and Gas Industry
- Water and Wastewater Treatment Plants
- Marine and Offshore Platforms
- Power Plants
- Transportation and Infrastructure
- Food and Beverage Industry
- Pharmaceuticals

At ECPL, our FRP Molded and Pultruded Gratings are engineered to provide superior performance, durability, and safety across a wide range of industrial applications. With customizable options and robust features, our gratings ensure reliability and efficiency, making them the preferred choice for various sectors. Experience the ECPL difference with our innovative FRP grating solutions.

FRP PULTRUDED SECTIONS



At Eclectic Composites Pvt Ltd, we offer superior FRP Pultruded Gratings designed through a continuous pultrusion process that ensures unmatched strength, durability, and consistency. Our gratings excel in load-bearing capacity and resist corrosion, making them perfect for a wide range of industrial applications. With various resin options and surface finishes available, our FRP Pultruded Gratings provide reliable and versatile solutions for areas requiring enhanced safety and performance.

KEY CHARACTERISTICS OF OUR FRP PULTRUDED GRATINGS

- 1.High Strength:** Designed to support significant loads.
- 2.Corrosion Resistant:** Suitable for harsh chemical environments.
- 3.Durable:** Long-lasting and resistant to wear and tear.
- 4.Non-Conductive:** Safe for use in electrical and telecommunications settings.
- 5.Fire Retardant:** Available in fire-resistant variants.
- 6.Lightweight:** Easy to install and transport.
- 7.Customizable:** Tailored to various sizes and surface finishes.
- 8.Low Maintenance:** Cost-effective with minimal upkeep.

TYPES OF FRP PULTRUDED SECTIONS

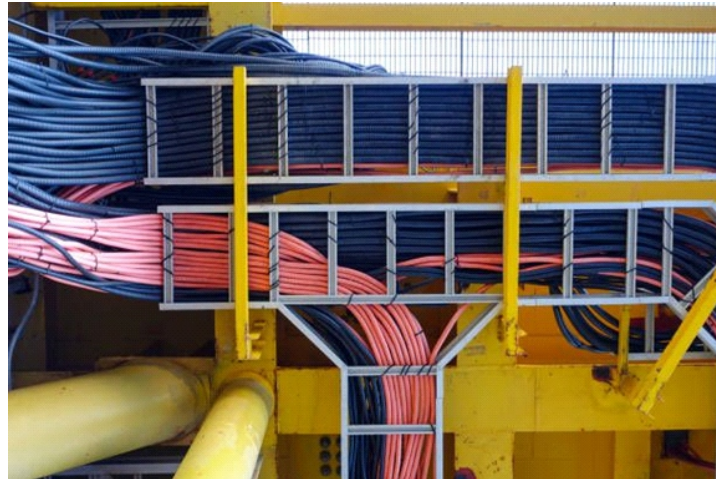
- 1.I-Beams:** For robust structural applications.
- 2.Channels:** Ideal for construction and infrastructure projects.
- 3.Angles:** Perfect for framing and support structures.
- 4.Tube Sections:** Used in frameworks and structural supports.
- 5.Flat Sheets:** Versatile for flooring, decking, and paneling.

SECTORS SERVED

- Chemical Processing Plants
- Oil and Gas Industry
- Water and Wastewater Treatment Plants
- Marine and Offshore Platforms
- Power Plants
- Transportation and Infrastructure
- Food and Beverage Industry
- Pharmaceuticals

Explore the exceptional capabilities of our FRP Pultruded Gratings and discover why Eclectic Composites Pvt Ltd is a trusted name in delivering high - quality, reliable solutions for industrial applications. Contact us for custom solutions tailored to your specific needs.

FRP CABLE TRAYS



Eclectic Composites (P) Ltd. FRP Cable Trays is designed and manufactured from a selection of premium resin reinforced with glass fibers to form a strong composite that is resistant to chemicals, fire retardant, and Ultra Violet rays. ECPL FRP GRP Cable Trays are widely used in Electrical & Instrumentation Installations. We have developed a wide range of FRP (Fiber - Reinforced Plastics) Cable ladder, FRP Perforated trays, and FRP Supports to provide complete cable system solutions for Projects.

Fiberglass reinforced plastics cable trays systems are defined to include Ladder cable trays, ventilated and solid bottom cable trays, FRP tray Covers, Accessories, Bends, and fittings. Our Cable Trays are manufactured in line with NEMA FGI 1993 (Fiberglass Cable trays System) And UL 568 (Non - metallic Cable Tray Systems), Cable tray shall be installed according to the latest revision of NEMA VE 2.

FRP GRP LADDER CABLE TRAYS

FRP Ladder Cable trays shall consist of two longitudinal side rails with transverse / horizontal rung mechanically fastened and adhesively bonded to the side rails. FRP Rungs shall be spaced 150, 250, 300mm distant from each other. Each FRP Ladder side rails shall have holes on each end for fixing the FRP Coupler plate and hardware. FRP Ladder trays construction shall have a high degree of finish and to facilitate easy handling as also laying of cables without causing damage to cables.



(a) FRP Ladder Type Cable Tray



(b) FRP Perforated Cable Tray

FRP GRP PERFORATED CABLE TRAYS

FRP Perforated type Cable trays are solid bottom with perforation / slot in the bottom side of cable trays. Ventilated bottom shall be perforated with 8mm diameter holes and have slots to facilitate the use of cable ties to fix the cables. FRP GRP Perforated trays come with a width from 50mm to 600mm and height up to 100mm with thickness 3, 4, 5 and 6mm.

FRP Channel Cable trays shall be supplied in 3000mm standard length and splice holes are provided at both ends to connect trays with splices plates & Hardware.

FRP CANOPIES



Material of Construction (MOC): FRP (Fiber Reinforced Plastic)

Sizes: Customizable, commonly ranging from 150 mm to 3000 mm in width, 200 mm to 500 mm in height, and 150 mm to 500 mm in depth.

Applications: Protection for field equipment, motor canopies, instrumentation canopies, junction boxes, and street light canopies.

Standards: IP65 waterproof design, UV resistance, corrosion resistance, and fire retardant.

Sectors Served: Industrial, infrastructure, utilities, and transportation.

FRP DOORS



Material of Construction (MOC): FRP (Fiber Reinforced Plastic)

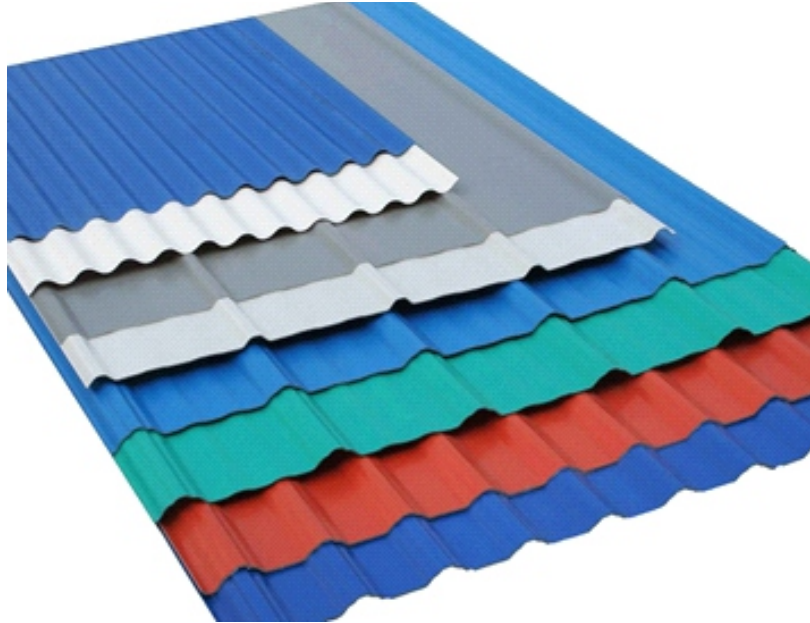
Sizes: Customizable, commonly ranging from 700 mm to 1200 mm in width and 2000 mm to 2400 mm in height.

Applications: Industrial doors, clean room doors, chemical-resistant doors, and weatherproof doors.

Standards: IS 14856

Sectors Served: Industrial, commercial, healthcare, pharmaceuticals, and marine.

FRP SHEETS



Material of Construction (MOC) : FRP Polyester , Vinylester , Bisphenol , Epoxy

Sizes: As per customer requirements

Applications: Decorative , Shade , Open Area Cover , Industrial roofing etc.

Sectors Served: Industrial, commercial, building and construction industries.

FRP AQUA CULTURE TANKS



Material of Construction (MOC) : FRP Polyester , Vinylester , Bisphenol , Epoxy

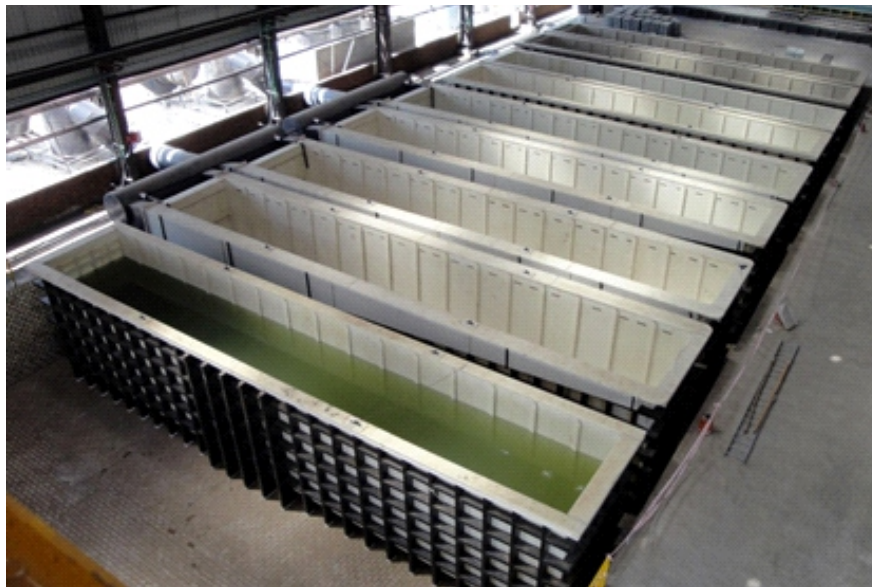
Sizes: As per customer requirements

Applications: Agriculture Farming

Standards : BS-EN-13121-3

Sectors Served: Aquaculture Industries

FRP PICKLING TANKS



Material of Construction (MOC) : PP, HDPE, PPH , PP-FRP, HDPE-FRP, PVDF-FRP, ETCTFE, PPH-FRP etc.

Sizes: As per customer requirement.

Applications: Steel tube pickling, cold rolling Steel Sheet & Strip pickling.

Standards : DVS 2205

Sectors Served: Steel cold rolling mills , Coil pickling lines, Hot dip galvanising plants , metal finishing industries , steel pipe & tube industry.

FRP OEM / ODM PARTS



Material of Construction (MOC) : FRP , PP, HDPE, PPH , PP-FRP, HDPE-FRP, PVDF-FRP, ETCTFE, PPH-FRP etc.

Sizes: As per customer requirement.

Applications: Industrial , commercial , marine , non corrosive products , government etc.

Standards : As per product requirements.

FRP FACADE SOLUTIONS



Material of Construction (MOC) : FRP , GRP

Sizes & Design : As per customer requirement.

Applications: Building facades , duct covering etc.

Standards : ASTM D3039 , ASTM D790 and ASTM D2240

Sectors Served: Residential , industrial , building sector

FRP MOBILITY PARTS



Material of Construction (MOC) : FRP , ABS

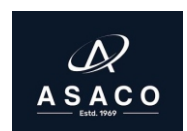
Sizes & Design : As per customer requirement.

Applications: Automobile

Standards : ISO / TS 16949, ISO 9001, ISO 14001

Sectors Served: Automobile Industry , EV Sector

OUR CLIENTS



ECLECTIC COMPOSITES PVT LTD

1002, Nandan Probiz, Dharamvir Nagar, Off Balewadi High Street,
Balewadi, Pune 411045.

✉ : info@eclecticcomposites.com 🌐 : www.eclecticcomposites.com

☎ **+91 9657700011 / +91 9975733409**