



PROLONG FRP PRODUCT CATALOGUE

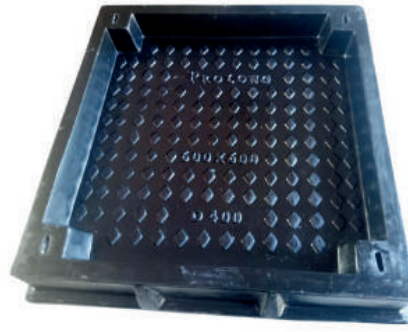
Think Innovative, Use Composites

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FRP MANHOLE COVER



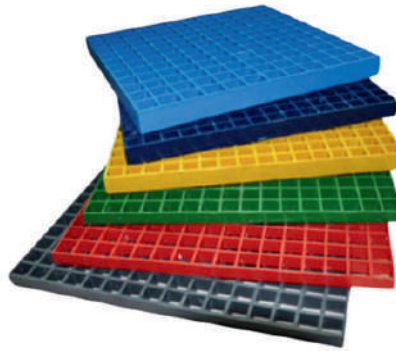
FRP RECESSED COVER



FRP OVERTANK COVER



FRP TREE GRATING



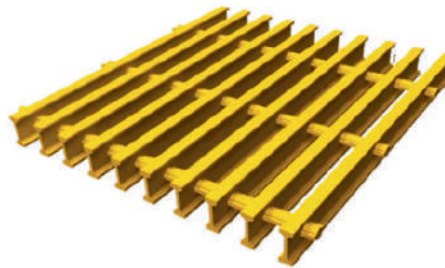
FRP MOULDED GRATING



FRP GULLY COVER



FRP DOOR



FRP PULTRUDED GRATING



FRP POT



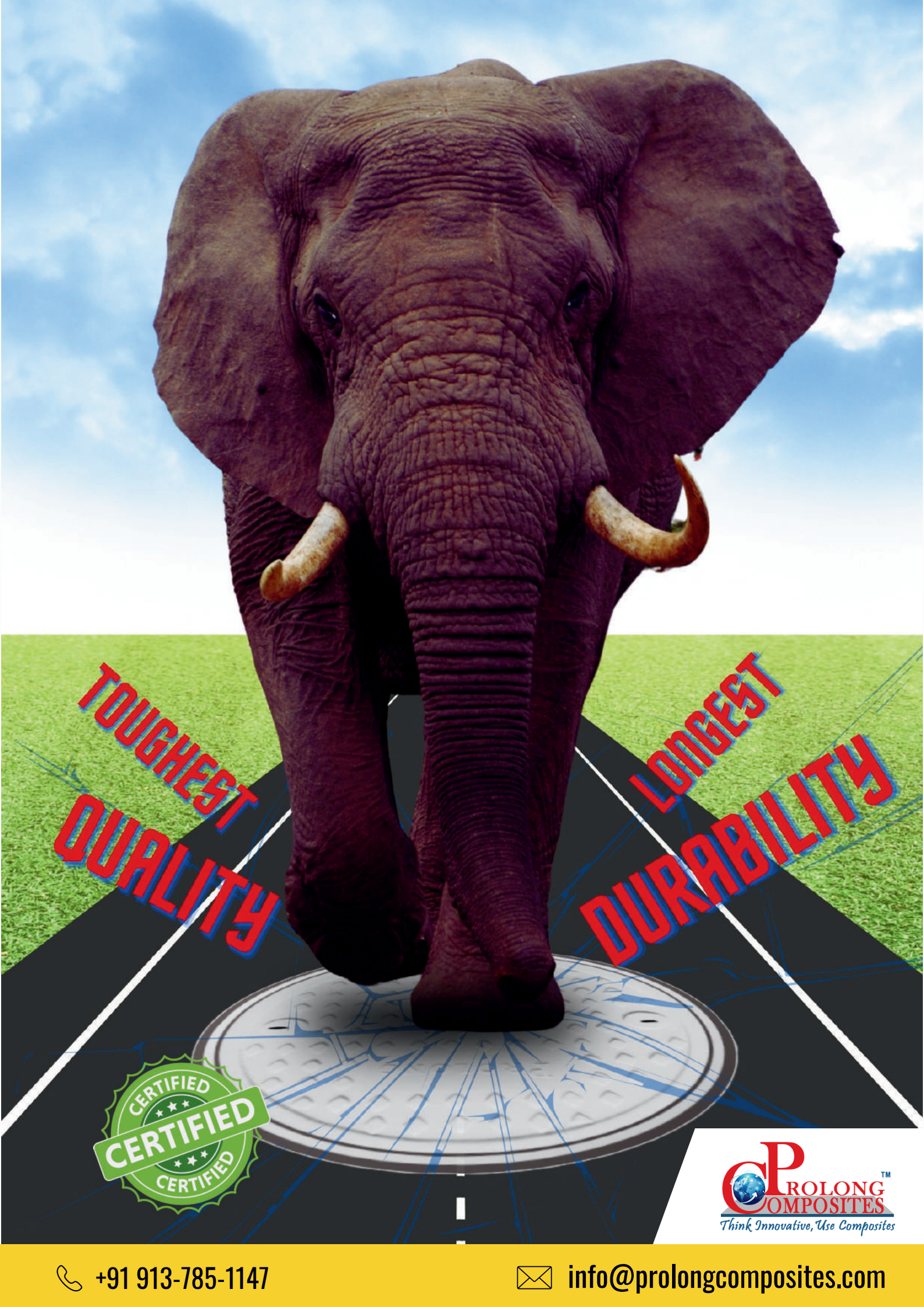
FRP RAILING/ FENCING



FRP TANKS



FRP PERGOLA



**TOUGHEST
QUALITY**

**LONGEST
DURABILITY**



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Introduction

Prolong Composites is one of the India's leading manufacturers of Fibre Reinforced Plastics (FRP) products like manhole covers, moulded gratings, pultruded profiles, etc. Prolong Composites was incorporated in the year 2016 in Mumbai with an objective of manufacturing and offering world class innovative FRP products to overcome challenges faced by traditional materials like steel, cast iron, cement concrete, etc.

Why Prolong Composites ?



High-Performance Materials	Lightweight & Durable Solutions
Quick Turnaround	Quality Assurance & Certifications

CERTIFICATES




WHAT IS FRP ?

FRP, or Fiber-Reinforced Polymer, is used in a wide variety of applications, primarily due to its strength, durability, and resistance to corrosion. It's commonly used in construction for panels, reinforcing concrete structures, and in industries like aerospace, automotive, and marine for components like pipes, gratings, and structural members.

FRP is best alternative to Iron/Concrete Products due to due high resistance to corrosion, uv and chemicals along with zero scrap value preventing theft.

Nowadays, It has become popular due to its properties.

PROPERTIES & FEATURE OF FRP/GRP

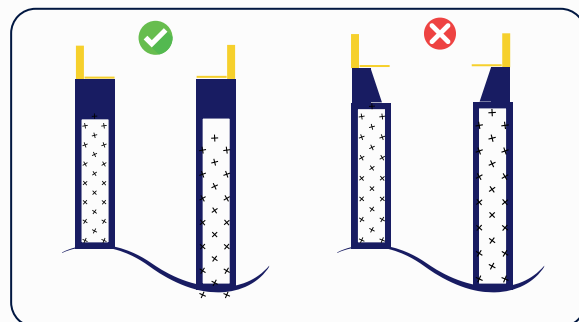
- Frp materials are highly resistant to UV, chemical/sewage water & formation of algae.
- It has high strength, load-bearing capacity yet is light-weight.
- Suitable for extreme conditions hot or cold.
- Minimal effect of environment i.e. corrosion-free, rust-free hence usually maintenance is not required also ensuring a long-life span.
- It has a smooth and granite-finished texture.
- Easy to customize & available in desired colours.

LOAD TESTING

Prolong Composites Fiber Reinforced Polymer(FRP) products are tested with class load bearing capacity for 2.5 tons, 5 tons, B125 (12.5 tons), C250(25 tons), D400(40 tons), E600(60 tons) and F900(90 tons) .

INSTALLATION GUIDE

- Frame must be installed on even surface
- Install frame with civil support
- Avoid slope or uneven surface
- Do not throw the materials
- Apply load only after grouting



Install frame on even surface
Avoid slope or uneven surface

APPLICATIONS



Airways



Seaways



Roadways



Pedestrians



Bicycle Track



Parking Area

LOAD BEARING CAPACITY

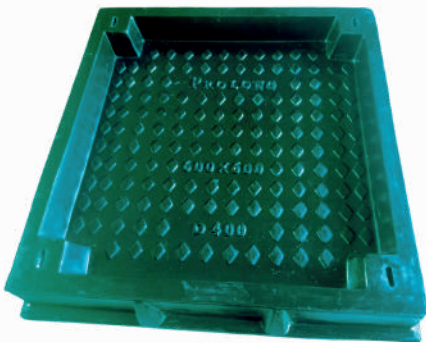


FRP MANHOLE COVER

Aspect The Better performance than Cast Iron, Ductile Iron and RCC manhole covers, frp manhole cover is an industrial revolution. They have been thoroughly tested as per BS EN 124-2015 standards. Prolong Composites manhole covers meet all the standards.

Our covers are available in all standard sizes with load bearing capacity ranging from A15/2.5 T to 25 tons (C250).

Available in circular, rectangular, square shape. Customized size & branding done on request.



FRP RECESSED COVER

Our Recessed Manhole Cover comes with better performance than Cast Iron, Ductile Iron and RCC manhole covers. Prolong Recess Covers are lighter and superior to conventional materials. They have been thoroughly tested for load bearing and permanent set as per BS EN 124 & IS 1726 standards for drainage and utility services. Our covers meet all the requirements of the code.

Our covers are available in all standard sizes with load-bearing capacity ranging from 2.5 tons to 40 tons (D 400).

Products

FRP CHAMBER/CHAMBER COVER

Aspect The Better performance than Cast Iron, Ductile Iron and RCC manhole covers, frp manhole cover is an industrial revolution. They have been thoroughly tested as per BS EN 124-2015 standards. Prolong Composites manhole covers meet all the standards.

Our covers are available in all standard sizes with load bearing capacity ranging from A15/2.5 T to 25 tons (C250).

Available in circular, rectangular, square shape. Customized size & branding done on request.



FRP GULLY COVER

Prolong Composite FRP Gully Cover performs better than Cast Iron, Ductile Iron, and RCC Gully Covers. It is designed for high weight bearing with superb stability.

Our covers come with frames and are available in all standard sizes, with load-bearing capacity ranging from 2.5 to 40 tons (D400). They are square and rectangular in shape.



FRP OVERHEAD TANK COVER (O.H.)

Prolong Composites is one of the largest manufacturers of FRP Overhead Tank Covers. We offer customized size frame on request.

Our covers are available in all standard sizes with load bearing capacity ranging from 2.5 tons to 40 tons (D 400). They are circular, square and rectangular shapes available with single and double seal arrangements. It is available in all standard sizes.



FRP UNDERGROUND TANK COVER (U.G.)



Prolong Composites FRP Underground Tank Covers are sturdy, corrosion-free with no effects of chemical and water on them.

Our covers are available in all standard sizes with load bearing capacity ranging from 2.5 tons to 40 tons (D 400). They are circular, square and rectangular shapes available with single and double seal arrangements. It is available in all standard sizes.

FRP U DRAIN SYSTEM

Prolong Composites FRP U Drains offer high-performance drainage solutions ideal for industrial, commercial, and infrastructure projects. Engineered from corrosion-resistant, lightweight FRP material, these drains ensure long service life, easy installation, and resistance to chemicals, UV, and extreme weather.

Applications:

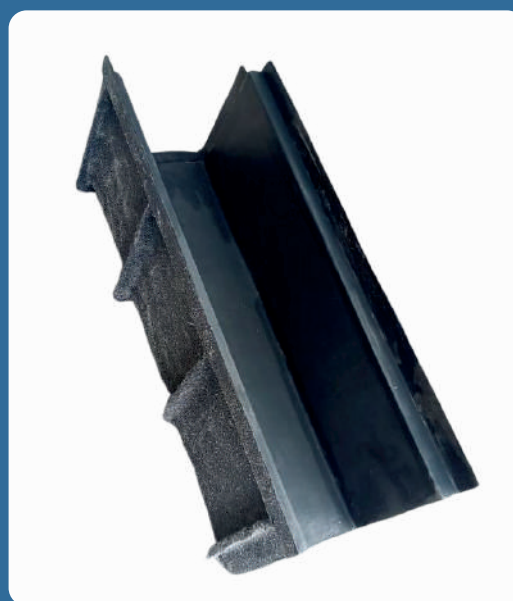
Industrial plants | Roads & highways | Ports |
Landscaped areas | Chemical zones



UPGRADE TO SMARTER DRAINAGE WITH PROLONG COMPOSITES



FRP U DRAIN
WITH GRATING



FRP U DRAIN
WITH DRAIN/GULLY

DIMENSION CHART

Manhole Cover with Frame

	MM	INCH
Circular	530	21"
	600	24"
	750	30"
	900	36"
Rectangular	450 X 600	18" X 24"
	900 X 450	36" X 18"
	900 X 600	36" X 24"
	1200 X 600*	48" X 24"
	900 X 1200	36" X 48"
Square	300 X 300	12" X 12"
	450 X 450	18" X 18"
	600 X 600	24" X 24"
	750 X 750	30" X 30"
	900 X 900	36" X 36"
	1000 X 1000	40" X 40"
	1200 X 1200	48" X 48"

Overhead Tank Cover with Frame

OHTC	600 DIA	24"
------	---------	-----

Gully Cover with Frame

	MM	INCH
GC	385 X 317	-
	450 X 450	18" X 18"
	300 X 600	12" X 24"
	500 X 600	20" X 24"
	600 X 600	24" X 24"
	900 X 600	36" X 24"
	900 X 450	36" X 18"
	900 X 900	36" X 36"
900 X 1200	36" X 48"	

Recessed Cover with Frame

RC	300 X 300	12" X 12"
	450 X 450	18" X 18"
	600 X 600	24" X 24"
	900 X 900	36" X 36"

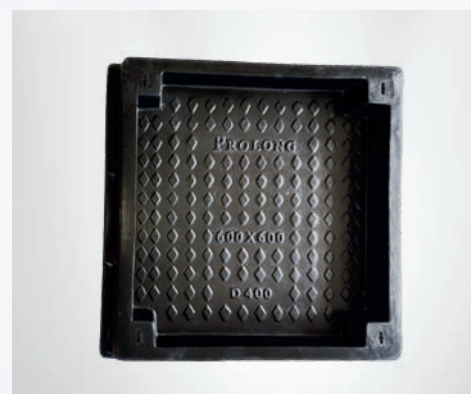
Underground Tank Cover with Frame

UGTC	600 DIA	24"
	600 X 600	24" X 24"



PROPERTIES	FRP/GRP	CI/DI	CONCRETE COVER
Strength	High	High	Low
Theft Risk	Low	High	High
Weight	Light	Heavy	Heavy
Corrosion	No	Yes	Yes
Resistance	High	Mid	Mid
Granite Finish	Yes	No	No
Paint	No	Yes	Yes
Freight & Handling Cost	Low	High	High
GRP Plate Required	No	Yes	Yes
Life Span	Long	Less	Less
Abrasion Resistance	High	Low	Low
Effect of Sewage/Chemical Water	Low	High	High
Environmental Degradation	No	Yes	Yes

Comparison with other materials



FRP MOULDED GRATING

Prolong Composites offers gratings that are exceptionally resistant to corrosion, chemicals, and extreme weather conditions, making them ideal for use in harsh environments such as chemical plants, offshore platforms, wastewater treatment facilities, and marine applications.

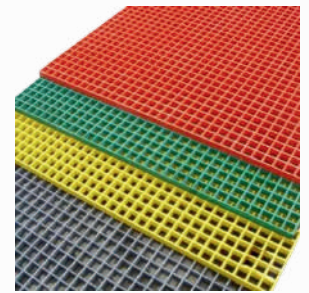
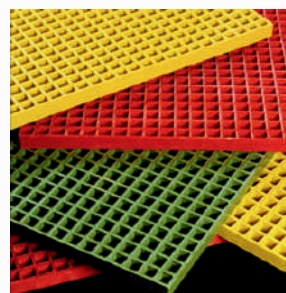
Our Gratings come with **zero filler content** due to which it doesn't have air voids & hence don't require void filling & painting/coating.

As a leading innovator in composite materials, our gratings are designed to outperform traditional materials like steel, wood and aluminium in a wide range of industrial and commercial applications. Our gratings provide excellent load-bearing capabilities with minimal maintenance.

SIZE CHART

THICKNESS (mm)	25	30	38	40	50
MESH SIZE (mm)	38 x 38				
PANEL SIZE (mm)	1220 x 3660				

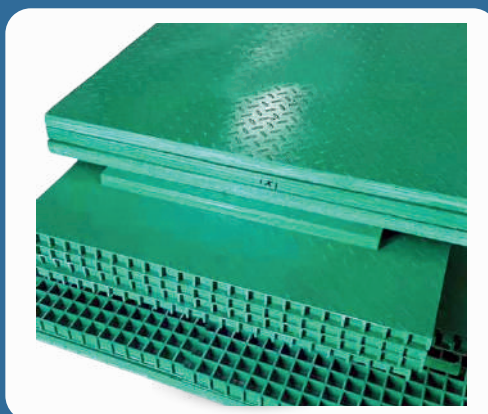
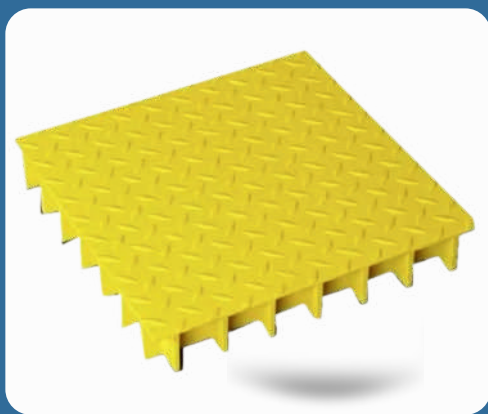
ANTI-SKID DESIGN



Products

FRP CHEQUERED PLATE

Prolong Composites presents a wide range of FRP Chequered plate . The provided frp chequered plate is manufactured following the set norms of industry using Fibre-reinforced plastic & latest techniques. Our offered railing is distinguished among customers for its high strength and durability. This frp Chequered plate is accessible in various thickness and dimensions to meet requisites of customers.



FRP CHEQUERED PLATE WITH FRP GRATING

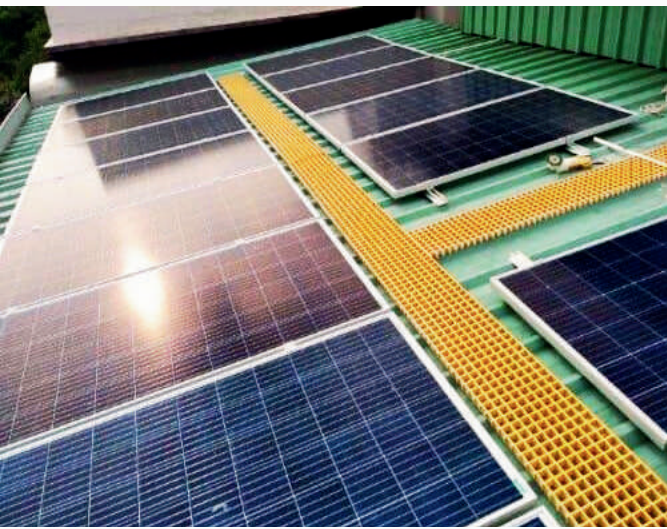
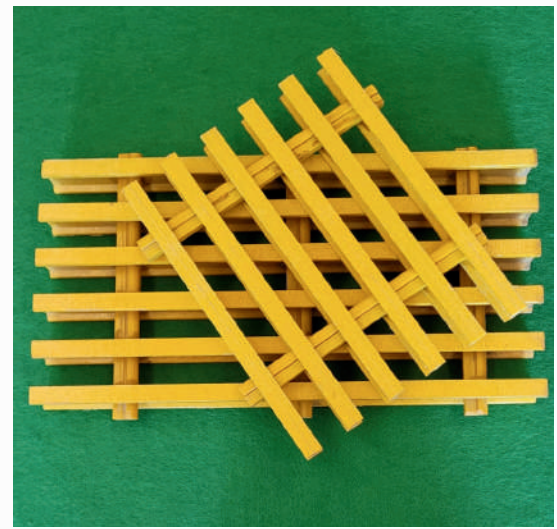
Prolong Composites FRP Chequered Plate with Grating has higher strength than the general FRP open mesh grid, it is the best choice for walkways, floorings and steps in industrial plants.

It is made of resin only and has sufficient non-slip roughness.

It is highly customizable and available in desired dimensions.

PROPERTIES	FRP/GRP	CI/MS	CI/MS
Strength	High	Low	Low
Scrap	Zero	Low	Low
Weight	Light	Heavy	Heavy
Corrosion	No	Yes	Yes
Resistance	High	Mid	Mid
Granite Finish	Yes	No	No
Paint	No	Yes	Yes
Freight & Handling Cost	Low	High	High
GRP Plate Required	No	Yes	Yes
Life Span	Long	Less	Less
Abrasion Resistance	High	Low	Low
Sewage/Chemical Water Effect	Low	High	High
Maintenance	No	Yes	Yes
Algae Formation	No	Yes	Yes

Comparison with other materials



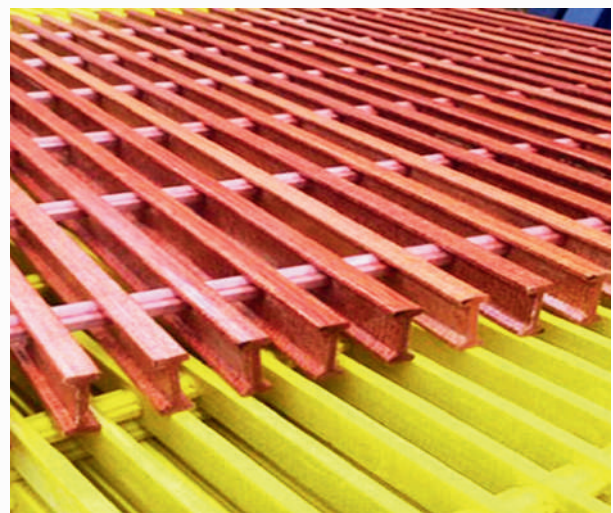
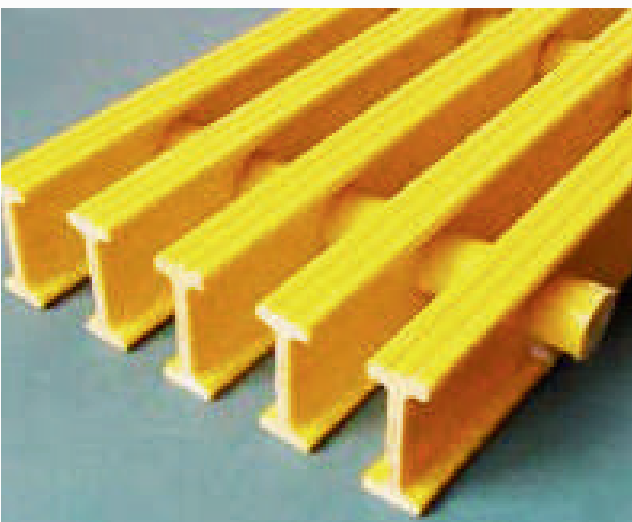
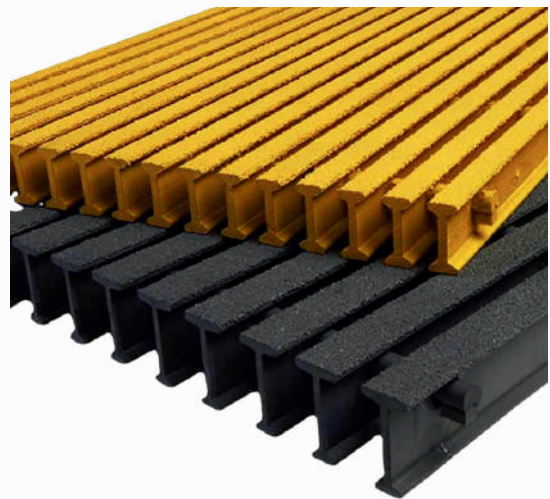
Products

FRP PULTRUDED GRATING

Prolong Pultruded Fiberglass Sections provide a unique and unmatched combination of corrosion resistance, high strength, thermal & electrical non-conductivity, dimensional stability & light weight sections providing virtually maintenance free services in most harsh industrial environments where traditional materials like steel, aluminum or wooden have failed to provide all the above properties.

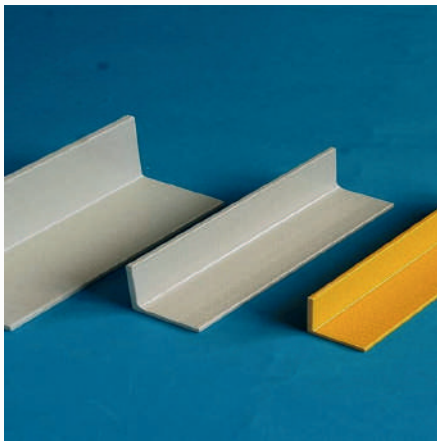
Unlike molded grating, pultruded grating comprises parallel bearing bars (typically I or T-shaped) connected by cross-rods, offering unidirectional strength and higher load capacity.

Height (mm)	25	30	38
Panel Size (mm)	Customize		



FRP PULTRUDED PRODUCTS

Prolong Pultruded Fiberglass Sections provide a unique and unmatched combination of corrosion resistivity, high strength, thermal & electrical non-conductivity, dimensional stability and light weight sections providing virtually maintenance free services in most harsh industrial environments where traditional materials like steel, aluminum or wooden have failed to provide all the above properties.



FRP L-Angle

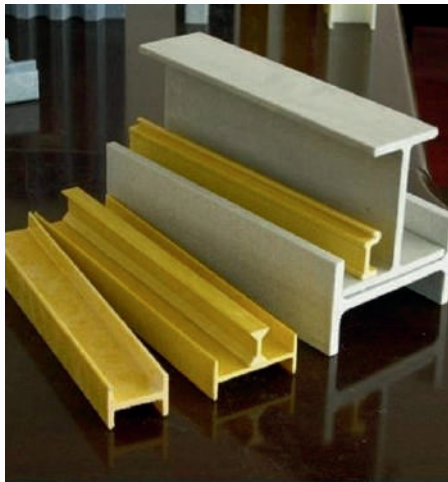
Construction, industrial settings, and marine applications

This angle shape is commonly used for framing, corner reinforcement, and structural applications.



FRP C-Channel

Ideal material for reinforcement and safety access application with good insulation. It is available for smooth and gritted surfaces.



FRP I-Beam

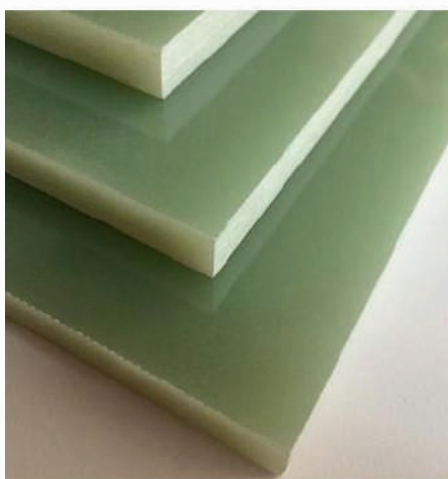
FRP I beams are good materials with high strength support structure.

It is suitable for crowds of long-span and high-strength structures.



FRP Round Pipe

Ideal material for reinforcement and safety access application with good insulation. It is available for smooth and gritted surfaces.



FRP Sheet

Our Versatile panels are stronger, and lightweight. FRP Panels are the ideal construction material that offers the perfect combination of affordability and efficiency for a variety of applications.



FRP Rebar

Non-corrosive alternative to steel & iron in concrete reinforcement. It is used in pre-tensioned concrete for applications where extreme resistance to corrosion is vital, such as to produce bridges, barrier walls, or decks.



FRP Rod

Our FRP Insulated rods can be used both as central and peripheral strength member in multi tube, uni tube, slotted core, drop cable, FTTx cable etc.



FRP Nut & Bolt

FRP Fastener Bolt, Nuts & Threaded Rod are used in technical fields that have high demands on electrical, chemical and thermal properties.

All above products are available in all standard sizes. Customization available on order.

FRP CABIN

Prolong Composites Offers best frp security cabin with flooring, frp portable site office cabin, frp office cabin (10'x10'), frp security cabin (4'x6'), frp security cabin (6'x6') and frp office cabin (8'x6')

These are resistant to humidity. There is no rotting or corroding of the cabin and provide a cool environment.

Customization Available.



FRP TOILET

Prolong Composites offers frp toilet & bathroom, frp portable western toilet (4'x4'), frp portable toilets (3.3'x3.3'), 5 in 1 indian / western toilet, prefabricated security cabin 6x6 and bio digester toilet 3x3.5 ht 8.5.

Our toilet as best alternative to traditionally used iron fabricated product. It is corrosion free with no effects of water & chemical. Also it ensures no algae formation.

Customized Sizes Available.





FRP GARDEN EQUIPMENTS

Prolong Composites is among the reliable manufacturers of a massive range of FRP Play Ground Equipments. In gardens and school grounds, a combination of FRP slides, sea-saw, swings, walking bridges and a lot of items are covered in one set with eye-pleasing and attractive colour combination. We supply a variety of combination sets in different hotels, parks and complexes as per customer demand.



FRP GYMNASIUM EQUIPMENTS

Prolong Composites FRP Gym Equipment offers innovative & durable fitness solutions. Our equipment is strong and durable. It is ideal for public parks, community centers & any fitness area. Each piece is built to be comfortable and safe with features like ergonomic handles and stable bases. Our range includes essential gym equipment such as sit-up boards, cross trainers, and leg presses, all crafted to provide reliable performance and low maintenance.

FRP SCREEN BUILDING ELEVATION

Prolong Composites FRP Screen is a type of barrier or partition used in various industrial, commercial, and residential applications for filtration, security, and ventilation. These screens are made from a composite material of a polymer resin matrix reinforced with fiberglass, providing numerous advantages over traditional materials like metal or wood.



FEATURES & ADVANTAGES

- Customizable Design
- Easy Installation
- Advantageous strength/ weight ratio and rigidity.
- Choice of wide range of Inbuilt color-Maintenance free finishes
- Heat insulation / Fire Retardant
- Durability, Waterproof & Lightweight
- Long Lifespan
- Variant Colors

APPLICATIONS

- Industrial Filtration
- Security Fencing
- Architectural Cladding
- Wastewater Treatment
- Marine and Coastal Applications
- HVAC Systems
- Construction Sites
- Greenhouses and Nurseries
- Recreational Areas



FRP VERTICAL TANK



Prolong Composites FRP Tank offered are precision made using prefabricated Fiberglass Reinforced Polyester that can be not only easily assembled through bolting action.

Our Vertical chemical storage tanks is much smaller, allowing for more equipment to be stored in the available area.

Standard	BS 4994:1986
	BS EN 13121-1
	BS EN 13121-2
	BS EN 13121-3

FRP HORIZONTAL TANK

Prolong Composites FRP vertical tanks are superior to other varieties of tanks of other material. They can be installed and relocated without difficulty. These are designed for stability, it comes in various capacities with robust support saddles, manhole access, and customizable nozzles. Ideal for chemical, water, and industrial applications.

Horizontal tanks installed on trailers, skids, trucks, or tractors for transfer to the application site may be seen in the agricultural industry.



FRP SCRUBBER SYSTEM



Prolong Composites scrubber systems offer complete solution for hazardous gases. It includes gas collecting hoods, scrubber with recirculation piping and pump, ducting net work, chimney, and centrifugal exhaust blower.

Our Premium Scrubber offer entire scrubbing system on turnkey basis that could be prepared as per the requirement of the client.

FRP BLOWER

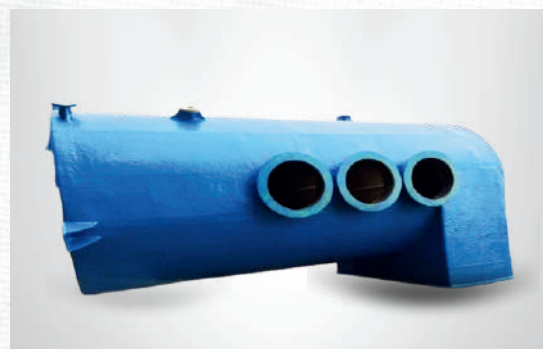
Prolong Composites design and manufacture efficient centrifugal Fans (Blowers) to handle corrosive and toxic gases like HCl, Cl₂, NH₃, H₂SO₄, NO₃, HBr, Br, H₂S, HF, H₂S, SO₂ and SO₃, solvent, etc.

Our blowers come with an unrivalled rustles coating that protects the blowers' outside steel components. Our range of blowers, which is known for its excellent performance and strength, is specifically built to handle strong fumes, vapour and gases.



ENGINEERED DESIGN THAT LAST LONG

	FRP / GRP	CI/DI/MS
Leakage Chance	Low	High
Portability	Easy	Hard
Weight	Light	Heavy
UV-Resistant	Yes	Moderate
Lifespan	Long	Limited
Chemical Effect	No	High
Corrosion	No	Yes
Colour	Any	Paint
Installation Cost	Low	High
Maintenance	Low	High



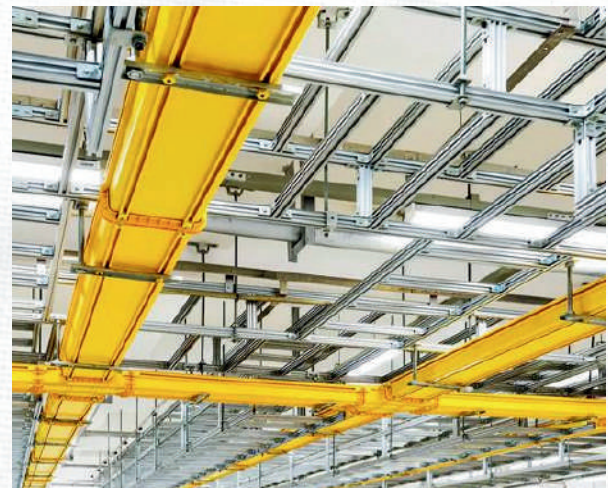
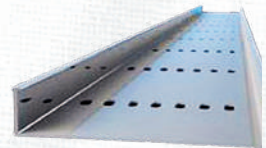
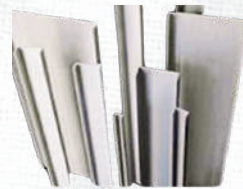
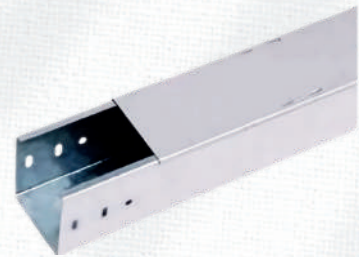
FRP CABLE TRAY

Prolong Composites Cable Tray manufacture quality Perforated Cable Tray that supports different types of insulated cables available in various fitting sizes, transitions, shapes and dimensions. It is incorporated based on the requirement of client. The trays assist to process fittings such as cross, reducers, bends, tees and etc. It is equipped with smooth finishing to enhance fittings process.

We serve requirements in various segments like Industrial, Infra, Mega Projects, Urban, Commercial & Residential etc.

HUSTLE FREE INSULATED CABLE TRAY SOLUTION

Width (mm)	Height (mm)	Thickness (mm)	Length (mm)
50	25/35/50	1.2/1.5/1.6/2	2500/3000
100	25/35/50/ 75/100		
150			
200			
250			
300			
350			
400		1.5/1.6/2/ 2.5/3	
450			
500			
550			
600			



FRP COOLING TOWER

Prolong Composites FRP cooling towers are constructed from fiberglass reinforced plastic, a composite material known for its strength and resistance to corrosion. These towers are designed to cool down water for industrial applications by using a cross-flow or counter-flow design where air comes into contact with water, allowing heat to be transferred and the water temperature to be reduced.

	Durability	Lightweight	Low Maintenance	Energy Efficiency	Customization	Space Saving
GFRP	Resistant to corrosion, rust, and harsh weather conditions, ensuring long-lasting performance.	Easy to install and transport	Non-corrosive nature of FRP requires less maintenance	Minimized energy consumption.	More Customizable Leverage	Relatively small size allows for easy placement in crowded areas
CI/MS	Highly vulnerable to corrosion, rust, and harsh weather conditions results short-lasting performance.	Heavy to install and transport	Highly corrosive hence requires more maintenance periodically	High energy consumption.	Less Customizable Leverage	Relatively large size

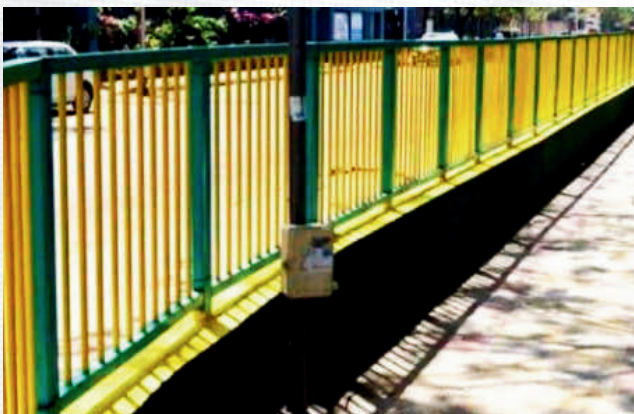


FRP RAILING AND FENCING

Prolong Composites FRP Railings are designed as per requirements from small platforms to complex structures with high-strength, maintenance-free handrails that are ideal for any location.

We offer Square & Round type handrail & fencing systems.

	FRP / GRP	CI/DI/MS
Weight	Light-weight	Heavy-weight
Conductivity	Insulated (Non Conductive)	Conductor (Conductive)
Fire/UV Retardant	Yes	No
Strength	High	Low
Corrosion	No	Yes
Colour	Any Color	Paint



FRP LADDER

Prolong Composites FRP Step ladders offer long lifespan, excellent build quality and are designed for heavy use. For a little additional expenditure as compared to Aluminum ladders there are a host of advantages like resistance to corrosion, electrically resistant and being all weather proof. These ladders are good for indoor and outdoor use.

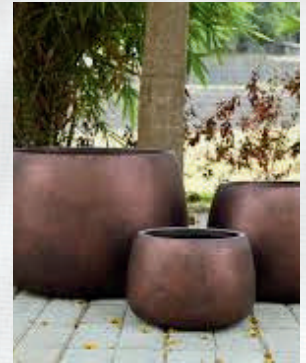
Weight (mm)	100	150	200	250	300	350	400	500	600	1000	1200
Height (mm)	50/75/100	50/75/100/150									
Thickness (mm)	3/5/6										
Length (mm)	3000										



FRP POT

Prolong Composites offer FRP Flower Pot, Rectangle Flowerpot, Tall Planters, FRP Tall Planter, Outdoor Rectangular Flower Pots and Vertical Garden Wall Hanging Pot.

Our pots are beautiful yet maintenance-free, corrosion-free, rust-free & algae-free with no effects of water & fertilizer. It is portable and can be installed very easily anywhere that means it can be used for both indoor & outdoor areas.



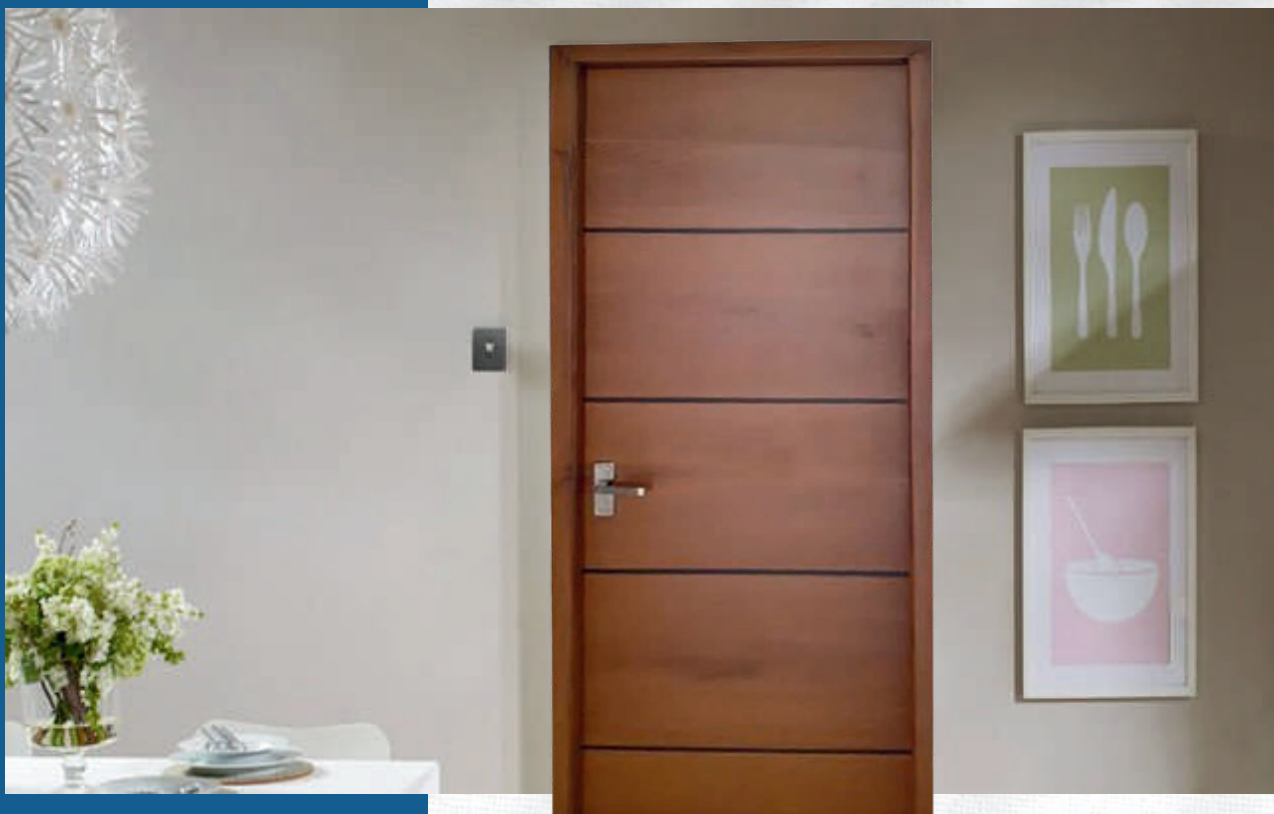
FRP DUSTBIN

Prolong Composites FRP Dustbin is widely used in various places like gardens, schools and other related places. Due to its superior quality and elegant design, this product is highly demanded in the industry. We offer this product at industry leading price to the clients.

Features:

- Various Design
- Durable Finish
- Rust Resistance
- High Strength





FRP DOORS

Prolong Composites FRP door is a new generation environmental-friendly door, more better than previous used of wood, steel, aluminum and plastic one. It is composed of high strength SMC skin, polyurethane foam core and plywood frame.

FEATURES & ADVANTAGES



FIRE RETARDANT

- Energy-Saving
- Eco-Friendly
- Heat Insulation
- High Strength
- Light Weight
- Anti-Corrosion
- Good Weatherability
- Dimensional Stability
- Long Lifespan
- Variant colors

FRP SUNSHADE

Prolong Composites FRP Prefabricated Sunshade is one single piece are the most preferred and suitable material, composed of Fiber Reinforced Polymer which is generally known for its very high strength, durability, resistance to high temperature and extremes of weathering, resistance to environmental corrosion and being light in weight.

FEATURES & ADVANTAGES

- Easy Installation
- Advantageous strength/ weight ratio and rigidity.
- Choice of wide range of Inbuilt color-Maintenance free finishes
- Heat insulation
- Excellent water, chemical & termite resistance.
- Durability, Waterproof & Lightweight.
- Long Lifespan
- Variant Colors



FRP PERGOLA AND GAZEBO

Prolong Composites FRP Pergolas & Gazebo are premium & bring architectural beauty to the outdoor area. From traditional and ornate gazebos to modern & minimalist designs, we offer a diverse selection of designs & dimensions.



FEATURES & ADVANTAGES

- 1. Durable Beauty:** FRP pergolas maintain their beauty for years. They resist fading, warping, and weather damage, ensuring your outdoor space remains attractive.
- 2. Versatile Uses:** Pergolas are multifunctional. They can be used as walkways, entryways, or standalone structures. You can grow climbing plants such as vines and roses to create a natural, organic canopy.
- 3. Stylish Shade:** Pergolas offer partial shade, allowing you to enjoy the outdoors without being fully exposed to the sun.
- 4. Custom Design:** FRP pergolas can be designed to blend seamlessly with home architecture or landscape. It can be incorporated with columns, arches and decorative lattice to match the style.
- 5. Low Maintenance:** FRP pergolas are low-maintenance structures. Now stop worrying about sanding, staining, or sealing unlike wooden pergolas.

FRP ACCESSORIES

Prolong Composites also offers various types of clamps/clips for perfect installation of gratings and manhole covers. These clips/clamps provides excellent hold-down capability & are very useful and crucial too.



M-Clamp/Clip

M clip also termed as Saddle clip. Standard M Clip comes as set with hex bolt, nut & washer. However, it can also be supplied with self-drilling screw for pilot drilling.



C-Clamp/Clip

C Clip is an assembly of joining clip that joins two adjacent grating panels and cap bolt of suitable length for fastening using simple key. The lower nut can be welded to the fixing clip for installation from grating top side.



Key Lock or T Lock

Our manhole covers is designed with locking features to enhance security and prevent unauthorized access. It also prevent unpleasant odour coming out from the manhole too.

FRP EVERYWHERE

APPLICATION

Prolong Composites FRP products are used in a wide range of industries due to their strength, lightweight nature, and resistance to corrosion.

BUILDING & CONSTRUCTION



COASTAL & MARINE



PARK & RECREATION



CHEMICAL & PHARMA



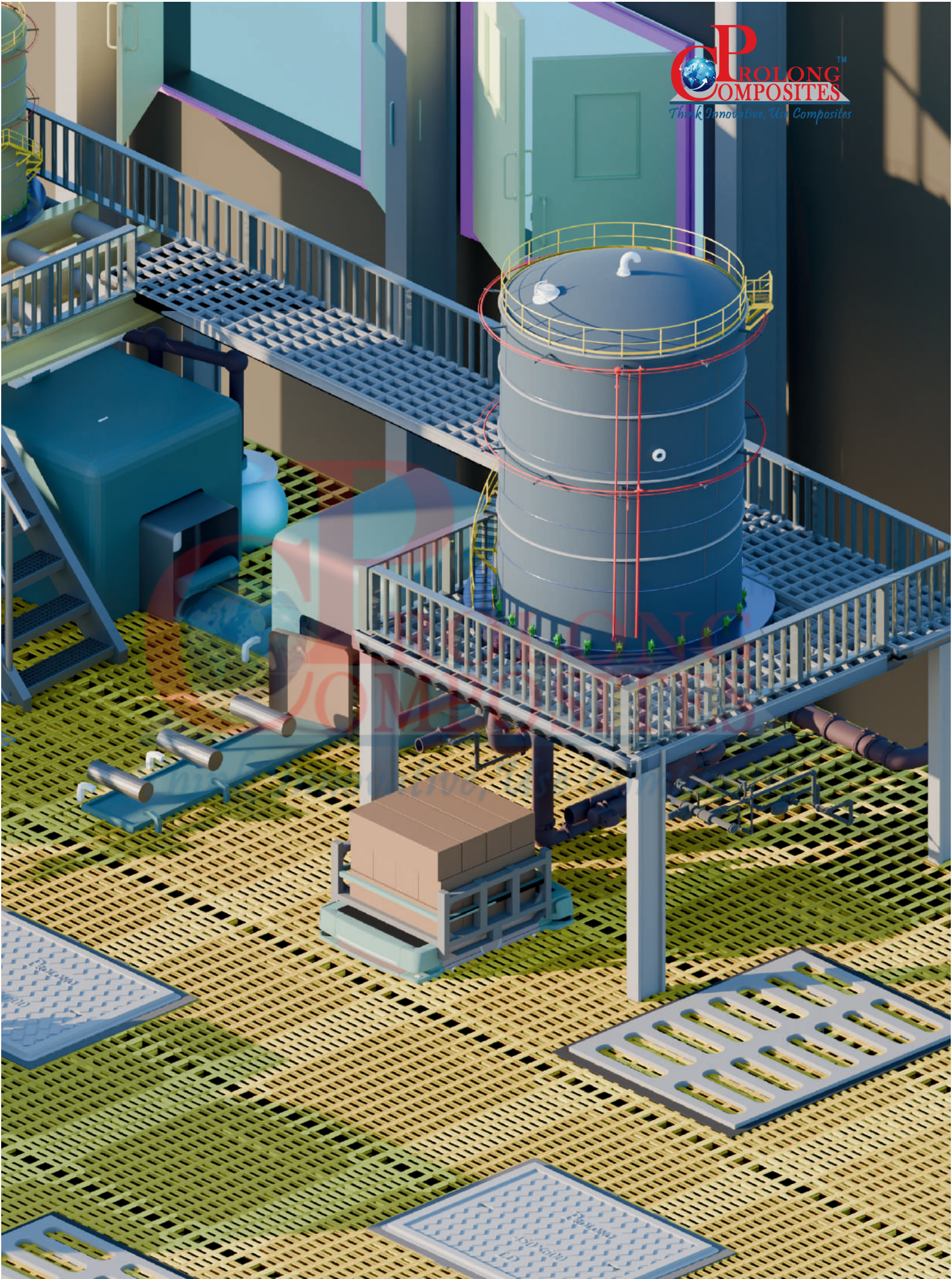
OIL & GAS



HOTEL & RESIDENCE









Your FRP Journey Begins Here

Thank you for exploring our collection. Each piece is crafted with passion and precision.

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