



FRP
PRODUCTS

 **indiGrate**
COMPOSITES

Use FRP
Beat Corrossion



Helping you get Ahead:

At IndiGrate Composites, our commitment lies in delivering an unparalleled spectrum of versatile products and services, setting us apart as a leader in the industry. Here's what sets us apart:

Reliability is Key

We pride ourselves on being a steadfast business partner. Our dedication to reliability forms the cornerstone of every interaction, ensuring steadfast support and consistent service for our valued clientele.

Tailored Solutions, Exquisite Attention

Understanding our customers' needs is our forte. We pay meticulous attention to every detail, crafting solutions that align perfectly with their requirements, fostering enduring partnerships.

Unrivalled Expertise

Our in-depth knowledge of our products and the industry landscape empowers us to offer unique insights and innovative solutions that transcend industry standards.

End-to-End Solutions

IndiGrate provides comprehensive, end-to-end solutions for the industries we serve. From inception to execution, we're dedicated to delivering holistic solutions that streamline operations.

Leadership in Experience

Driven by a seasoned and proficient management team, our operations are helmed by professionals with extensive industry experience. This leadership ensures excellence in every aspect of our service.

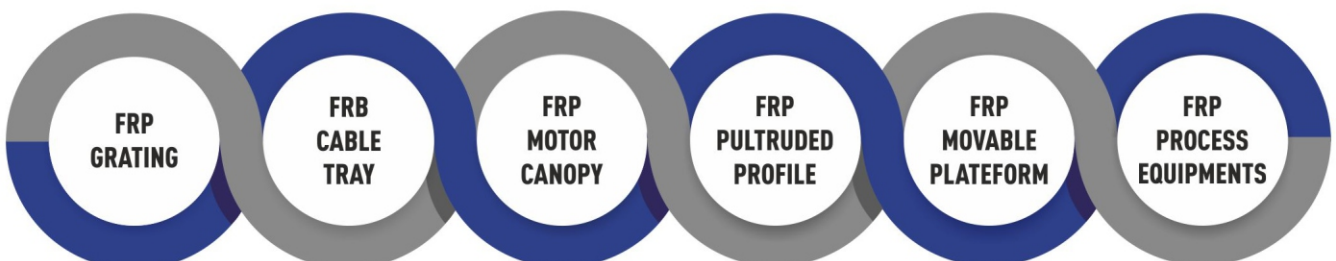
Global Network, Adaptive Agility

Our global network of experts and our nimble adaptability to industry changes afford us a competitive edge. We seamlessly navigate evolving landscapes, staying ahead in a dynamic market.

Join us and experience the IndiGrate advantage - where innovation meets reliability and solutions tailor-made to elevate your success.



PRODUCT RANGE



WHY FRP ?



CORROSION RESISTANT



LIGHT WEIGHT



LONG LIFE CYCLE



FLAME RETARDANT



HIGH STRENGTH



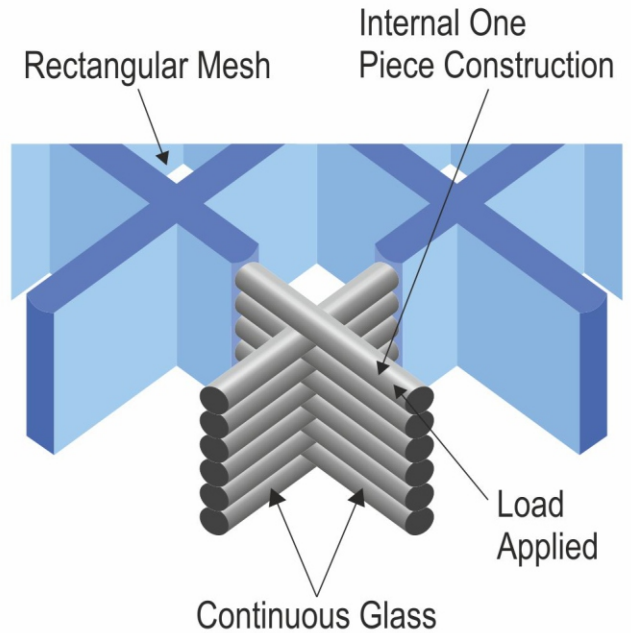
LOW MAINTENANCE

COMPARATIVE PROPERTIES

	FRP	CONCRETE	STEEL
CHEMICAL RESISTIVITY	Resistant to Chemical Corrosion	Resistant to Chemical Corrosion	Low Resistant to Chemical Corrosion
CONDUCTIVITY	Non-Conductive and earthing not required in closed enclosures	Non-Conductive and no earthing required	Conducts electricity and requires earthing
MAINTENANCE	Maintenance free with long life	Maintenance or replacement needed as material is brittle and porous	Continuous maintenance required due to damage / rust and requires repainting and repair
COST	Low life cycle cost	High initial cost and low maintenance cost	Low initial cost and high maintenance cost
WEIGHT	Light weight, 30% and 80% lighter than steel and concrete respectively	Extremely Heavy	Extremely Heavy
STRENGTH	High strength-to-weight ratio	Low strength-to-weight ratio	Low strength-to-weight ratio
DESIGN & FABRICATION	Easy to fabricate	Fairly hard to fabricate	Complicated to fabricate
ERGONOMICS	Easy to handle by manpower	Difficult to handle by manpower since it is heavy and brittle	No ergonomic properties and is difficult to handle
AESTHETICS	Color pigments can be added directly to resin which prevents color fading	Can be painted, but will have poor aesthetics	Can be painted or dyed for color but repainting may be required to maintain the color and block corrosion

FRP MOLDED GRATINGS

Our molded gratings are constructed in one-piece from continuous fiberglass rovings and a wide range of premium polyester and vinyl ester resins. Unique three step weaving process ensures that the distribution of the resin impregnated fibers are in a direction which are optimum to bear the load on the gratings.



FEATURES & ADVANTAGES

LIGHT WEIGHT

FRP's density is around 1.8g/cm³ which is about 1/4 of steel, or 2/3 of aluminum.

CORROSION RESISTANCE

It is resistant to corrosion and has an inherent ability to resist chemical degradation usually caused by Industrial gases and liquids.

EASY INSTALLATION

FRP Grating being of lesser weight than other conventional materials such as GI, Steel etc., will bear much lesser load on the supporting structure and also will be easier to transport and handle during installation.

HIGH STRENGTH

FRP grating can be designed to cater for higher loads by reorientation of Glass Fibers in various directions.

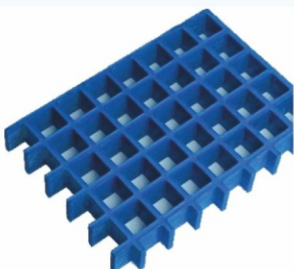
FIRE RETARDANCE AND SAFETY

Special Fire retardance properties based on IS, UL and ASTM standards can be provided to FRP Grating by selecting proper Resin systems and formulations.

LONG TERM COST BENEFITS

Compared with ordinary carbon steel, FRP grating has a lower life cycle cost owing to the non corrosive nature and its high strength properties

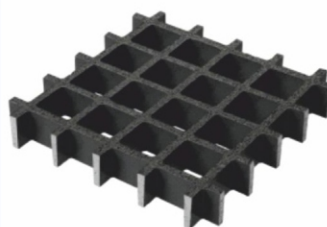
Types of Moulded Grating



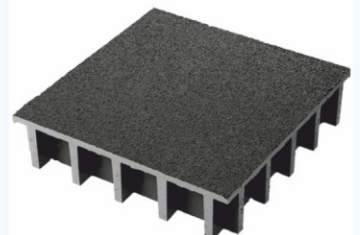
Meniscus
Surface



Chequered
Surface



Anti Skid
Surface

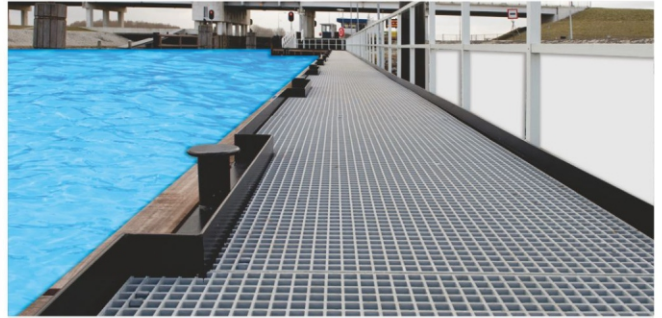


Anti Skid Chequered
Surface

APPLICATIONS



INDUSTRIAL PLATFORMS



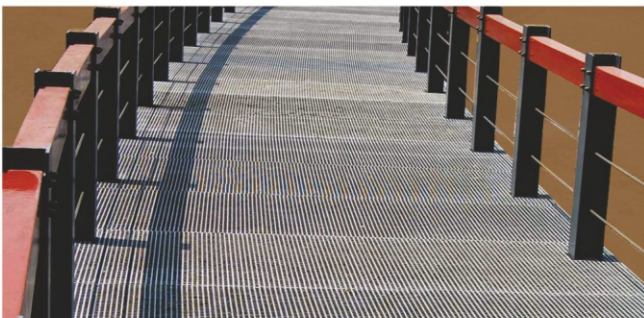
MARINE



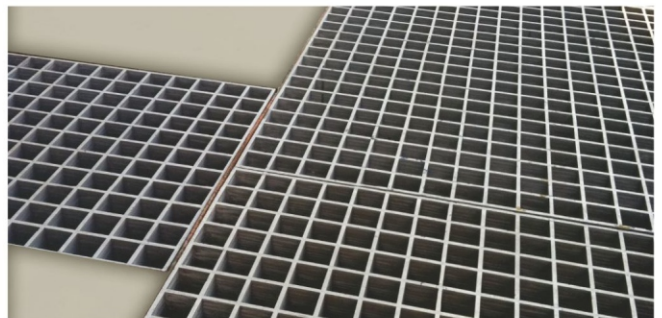
WATER TREATMENT PLANTS



SOLAR ROOFTOP WALKWAY



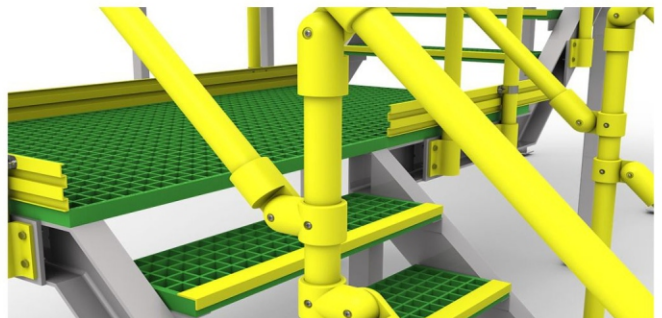
CIVIL



GUTTER COVERS



PHARMACEUTICALS



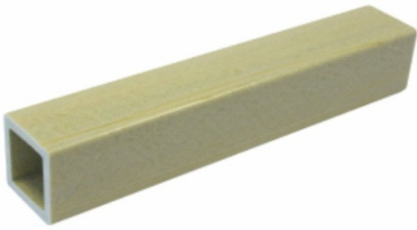
INDUSTRIAL STAIRCASE

AVAILABLE SIZES

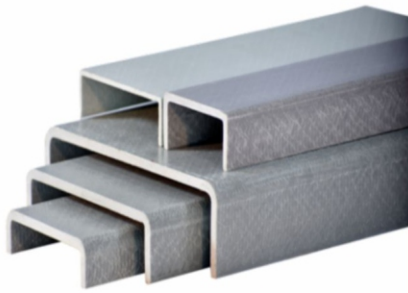
SR. NO.	PANEL SIZE (mm)	MESH (mm)	HEIGHT (mm)	RIB THICKNESS (mm)
1	1220 × 3660	38×38	38	5-7
2	1220 × 3660	38×38	30	5-7
3	1220 × 3660	38×38	25	5-7
4	1220 × 3660	38x38	15	5-7
5	1220 × 3660	TOP : 19×19, BOTTOM : 38×38	38 (28 + 10 Rib Height)	5-7

GRATING ACCESSORIES : M-CLAMP, C-CLAMP & G-CLAMP ALSO AVAILABLE

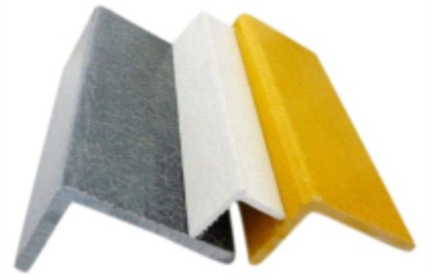
FRP PULTRUDED PROFILES



SQUARE BOX PIPE



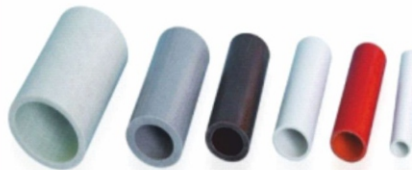
C-CHANNEL



L-ANGLE



RECTANGULAR BOX PIPE



ROUND TUBE



I-BEAMS

APPLICATIONS



**INDUSTRIAL
HAND RAILS**



**INDUSTRIAL
LADDER**

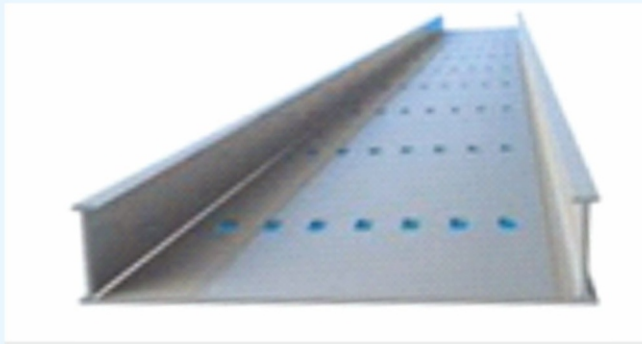


**INDUSTRIAL FRP
STRUCTURE**

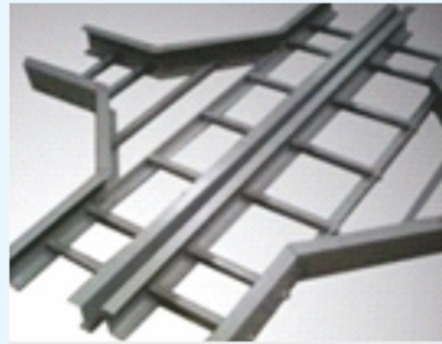


**SOLAR PANEL
MOUNTING STRUCTURE**

TYPES OF CABLE TRAYS



PERFORATED TYPE CABLE TRAY



LADDER TYPE CABLE TRAY

APPLICATIONS



**INDUSTRIAL CABLE
INSTALLATION**



**POWER STORAGE
CABINET AREAS**



**CABLE INSTALLATION
IN COMMERCIAL SITE**

OTHER FRP PRODUCTS



MOTOR CANOPY



GRP POLES



MANHOLE COVERS

INDUSTRIES WE CATER TO



PHARMA



SPECIALTY &
FINE CHEMICALS



DYES &
INTERMEDIATES



AGRO CHEMICAL &
ITS INTERMEDIATES



INFRA-STRUCTURE



PETRO CHEMICALS



SOLAR



ISO 9001 : 2015

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