

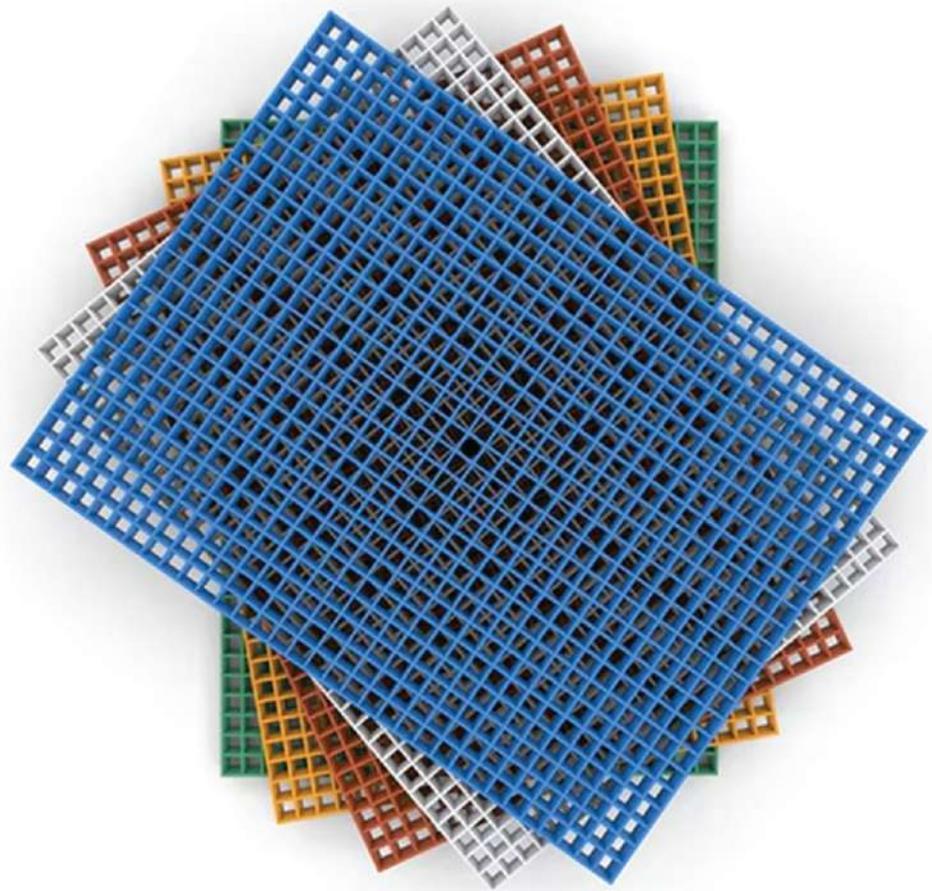
**MOULDED  
FRP GRATINGS  
FRP CABLE TRAY  
& ASSESSORIES**



**RS EXIM**  
THE FUTURE OF GRATING SOLUTIONS



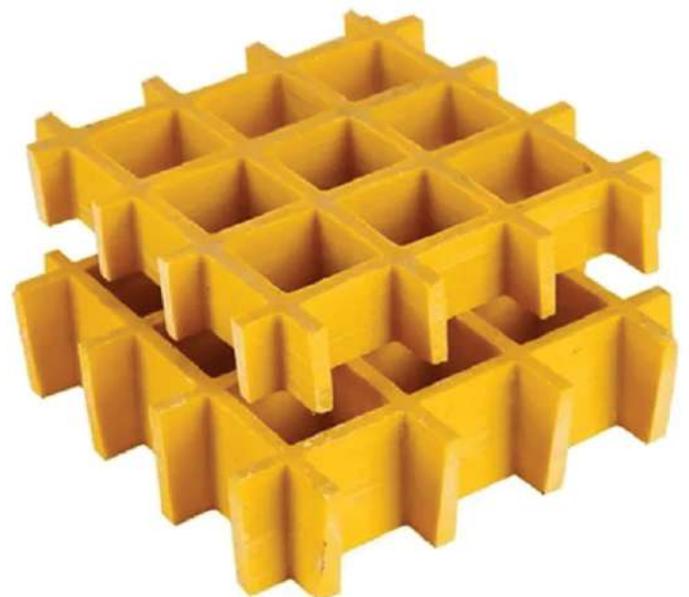
# ABOUT US



RS EXIM is one of the leading manufacturers of **FRP Moulded Gratings**. RS EXIM Gratings meet the highest international standards for its high strength, corrosion resistance, long life and safety. Manufactured from various carefully selected resin systems these Gratings are designed to deliver many years of reliable service, outperforming the traditional materials. Light in weight and easy to install, a complete range of moulded Gratings are available to satisfy various industrial needs, high load requirements, as well as mesh Grades to meet falling object solid floor solutions as well as stair treads, complimented with handrail systems enable complete access stairways and work platforms solutions.

These are manufactured in an open mould, using a hand lay-up process. Continuous fibre rovings are manually inserted in longitudinal and transverse directions, and thoroughly wetted-out with periodic applications of resin. This use of continuous rovings allows the creation of large, single-piece panels, with bidirectional strength properties.

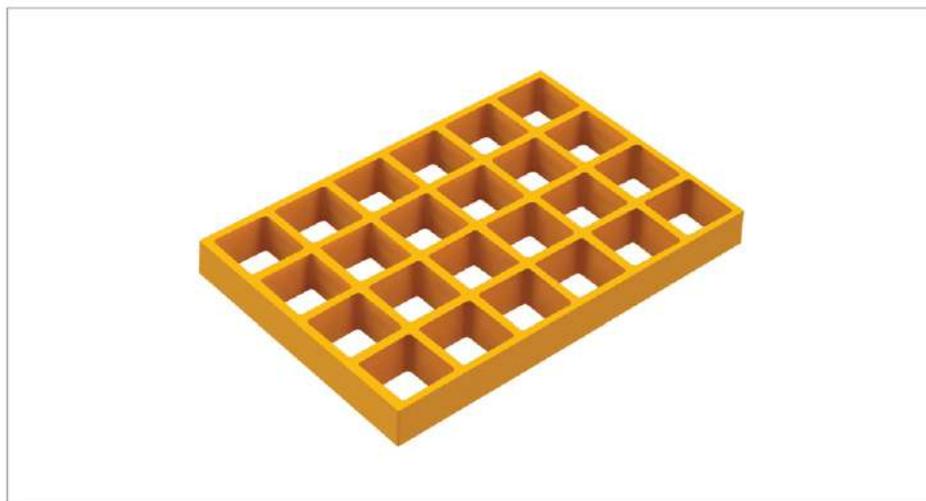
The Company can produce over **20MT** of gratings each month with a monthly capacity for **1500 grating panels**. RS EXIM offers a range of molded gratings designed to meet the load requirement for a variety of industrial purposes. FRP gratings have exceptional strength-to-weight ratios compared to conventional materials and perform reliably for many years - even in heavy - duty conditions.



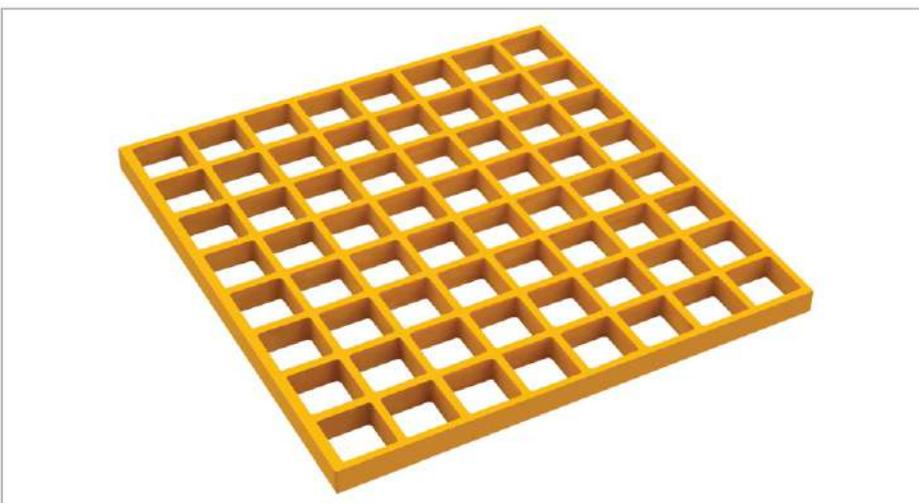
# Grating Dimensions and Technical Specification

## Thickness 17mm FRP Moulded Grating 17mm X 38mm X 38mm Square Mesh

<b>Grid Type</b>
Square Mesh 38 MM X 38 MM
<b>Rib Thickness</b>
5.7 MM
<b>Rib Center to Center</b>
38 MM
<b>Maximum Panel Size Available</b>
652 MM X 2010 MM
<b>Open Area</b>
72%



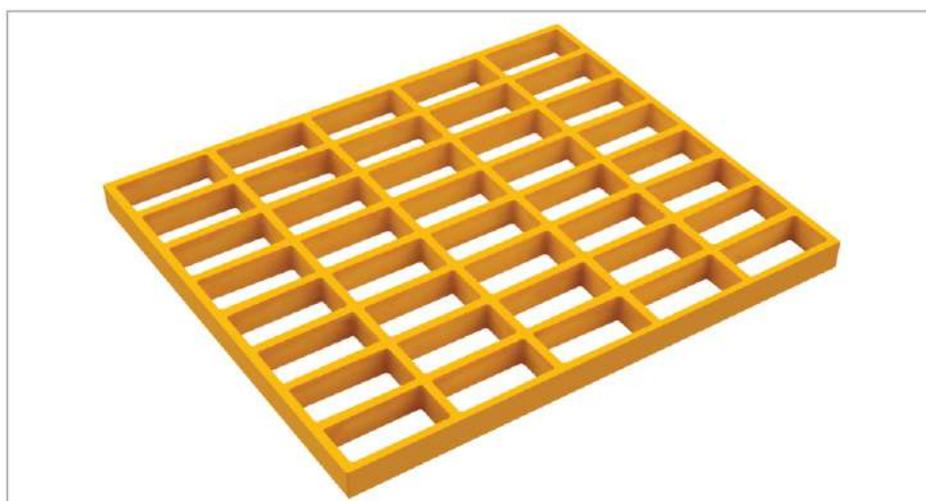
## Thickness 25mm FRP Moulded Grating 25mm X 38mm X 38mm Square Mesh



<b>Grid Type</b>
Square Mesh 38 MM X 38 MM
<b>Rib Thickness</b>
5.7 MM
<b>Rib Center to Center</b>
38 MM
<b>Maximum Panel Size Available</b>
1220 MM X 3660 MM
<b>Open Area</b>
72%

## Thickness 25mm FRP Moulded Grating 25mm X 38mm X 75mm Square Mesh

<b>Grid Type</b>
Square Mesh 38 MM X 75 MM
<b>Rib Thickness</b>
5.7 MM
<b>Rib Center to Center</b>
38 MM
<b>Maximum Panel Size Available</b>
1220 MM X 3680 MM
<b>Open Area</b>
72%



# Benefits Of FRP Grating

## Non Conductive, Dielectric



Properties of FRP gratings make it ideal for application such as switchgear and control room facilities, thus reducing the possibility of electric shock, since it does not reflect electromagnetic radiation. It is also well suited for use around transmitting equipment such as microwave towers and radar installations

## Light Weight



FRP gratings weigh 4 times less than comparable steel gratings! That means reducing weight on the structure, saving money and increasing safety during installation. Furthermore, the light weight enables an easy handling and deaning of the gratings.

## Strength



With one of the highest strength-to-weight ratios of any material, FRP Grating is strong and durable, ready for years of dependable use. Unlike steel, FRP Grating has memory, springing back to its original shape when deflected. Even major impacts inflict little damage without failure.

## Aesthetic Appearance



FRP gratings last longer because they are self pigmented & are not coloured. Hence, they don't wear off as in the case of painted finishing. An added advantage of FRP gratings is that they never rust.

## Flexibility & Ergonomics



FRP Grating is naturally flexible, providing a comfortable, non-skid surface that is easy to stand on. An ergonomic work floor reduces fatigue and injury, and increases productivity, contributing to better work environment. Also it is available in any colour of your choice

## Corrosion Resistance



The Corrosion Resistance property of FRP gratings is much higher than that of steel or aluminum gratings, hence are widely used in Chemical Industries, salt water environments, waste treatment plants where the atmosphere is highly corrosive. It will not rot, rust or corrode, providing many years of use with little or no maintenance. No scraping or painting required.

## Fabrication & Installation



FRP Grating products are easily cut with standard power tools, using masonry or diamond embedded blades. We recommend using a worm gear-driven circular saw, however standard tools can be used for most cutting. There is no steel cutting, banding or welding, all of which require specialized tools and often, facility permits. Lightweight and easy to handle, it needs no special lifting or installation equipment.

## Fire Retardant



All gratings are tested in accordance with ASTM E-84 and D-635, ensuring they have excellent flame spread resistance and self-extinguishing properties, keeping damage minimal. Best suited for applications where it's necessary to limit the spreading of flames and smoke.

## Permanent Slip Resistance



Slip and fall accidents are the single most expensive and common type of industrial accident. FRP Grating assures a long lasting durability and a superior adherence compared to any other type of grating even in presence of water, ice, oil or grease.



### Impact Resistance

Allows for a certain amount of repeated deflection without permanent deformation. A certain amount is allowable with loading, however when loading is removed, it returns to original shape. Metallic grating remains deformed, requiring costly repair or replacement.

### Non-Magnetic

Non-magnetic properties allow the grating to be used in sensitive installations where inherent magnetic properties or metallic grating would prove unsuitable.

### Non-Sparking

Qualities make FRP gratings highly desirable for use in environments where liquids, fumes and dust pose as potential ignition. Ideally suited for installations where hydrogen or other combustible gases may be found, which may explode or cause fire from sparks produced from accidental dropping of tools onto grating.

### Low Installation Cost

Weighs considerably less than conventional metal gratings, so is easier and cheaper to transport, install and remove. Only simple hand tools required for installation and removal; no expensive equipment or the labour costs associated with heavy cutting and lifting, and welding.

### High Strength-to-Weight Ratio

Composite materials' low weight, in comparison to other materials of similar strength, reduce costs associated with the installation and removal of panels.

### Maintenance Free

Metal gratings have a lower initial cost than FRP gratings, but considering the life cycle costs this is not the most economical choice, because of the high maintenance and replacements costs that occur once steel is corroded. FRP gratings have an incredibly long service life, they do not need scraping, sandblasting or coating even after many years of service, becoming more economical compared to traditional metal gratings.

### Cost Saving

In a review of costs, fiberglass grating showed significant savings over the use of stainless steel. When consideration is given to life-cycle costs, combining anti-slip benefits, the saving over use of metal is considerable.

### Electrical Insulation

This feature makes expensive "grounding" not needed and increases safety on the job site. The installation is thus quicker and cheaper.

## Typical Applications

- ▶ Airport
- ▶ Stairs
- ▶ Chemical Plant
- ▶ Water Treatment Plant
- ▶ Desalination Plant
- ▶ Electrical Rooms
- ▶ Marine Application
- ▶ Flooring Drain Covers
- ▶ Platform & Walkways Ramps
- ▶ Security & Safety Fence
- ▶ Commercial Application
- ▶ Metals & Mining Industries



# FRP Fencing

## FRP Fencing – Ideal Solution to Isolation and Protection

FRP fencing is a complete solution to safety in both residential areas and heavy industries. It is used for protection and isolation and it is applied to many areas that require rapid installation. It has many advantages: easy installation, excellent anti-corrosion performance and cost effective features.

The FRP fencing has many different types: FRP fencing railing, FRP picket fence, FRP molded grating fencing and FRP pultruded grating fencing. Below are some common FRP fences. Special shapes can be customized.

## Available type

### FRP Fencing Railing.



FRP fencing railing is the most common fence. The FRP fencing railing can be used as road divider and industry guardrail on account of solid structure. Normally, its infills can be circular, square and rectangular tubes.

### FRP Picket Fence.



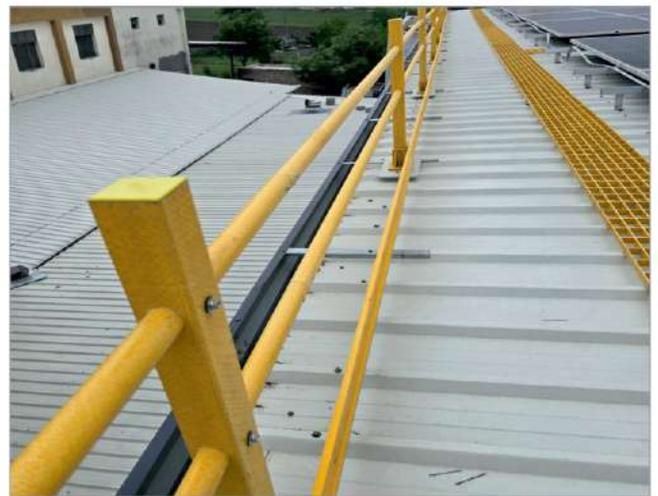
FRP picket fence is widely used in garden, household and factory, etc. It can be made of flat FRP profiles and rectangular FRP profiles. It serves as decoration due to its unique visual effect and excellent durability.

### FRP Molded Grating Fencing.



FRP molded grating fencing has many features: non-conductive, anti-aging and corrosion resistant performance, etc. It is widely used in electrical substations and high voltage pylons due to its non-conductive feature.

### FRP Pultruded Grating Fencing.



FRP pultruded grating fencing has a good appearance. It is constructed of I beam, round cross rod and tube frames. It has corrosion resistant performance.



# Features

- ▶ Cost Effective.
- ▶ Fast to Install.
- ▶ Termite Proof.
- ▶ Maintenance Free.
- ▶ Corrosion Resistant Performance.
- ▶ Non-Conductive.
- ▶ Anti-Aging.
- ▶ Good Appearance.

# Applications

- ▶ Electrical Substation.
- ▶ Road Divider Fencing.
- ▶ Garden Fencing.
- ▶ High Voltage Pylons.
- ▶ Walkways, Footbridges & Staircase.
- ▶ Architecture And Construction Industry.



Walkways and Roads



Power Station Fencing



Electrical Substation Guardrail



Industry Guardrail



FRP Picket Fencing



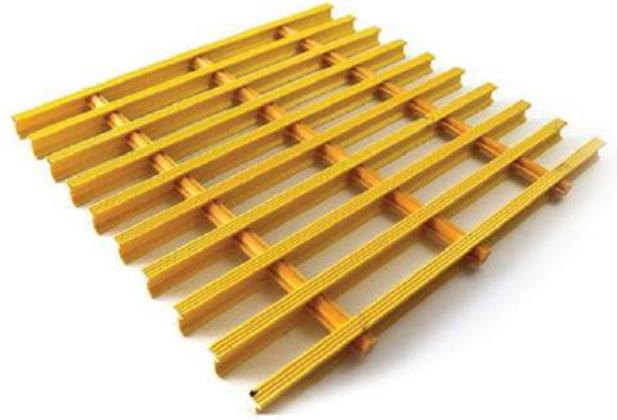
FRP Pultruded Grating Fencing

# Pultruded FRP Grating

## Heavier Loads & Longer Spans

Pultruded Fiberglass grating is constructed of FRP pultruded profiles. It can supply heavier loads and longer spans than comparably sized molded FRP Grating.

I bar, T bar or High-Load bars are supplied for demanding applications ranging from ADA-compliant walkways to heavy duty vehicle traffic decking.



## Available Bearing Bars



## Available Surface Type





# Features

- ▶ **Higher Loads.** Higher Loads And Longer Span Than Molded Grating.
- ▶ **Lightweight.** 1/3 Lighter Than Steel Grating.
- ▶ **Anti-slipping.** Gritted, Corrugated Or Convex Surface For Safe Access.
- ▶ **Flame Retardant.** UV Inhibitor For UV Resistant And Fire Retardant.
- ▶ **Corrosion Resistance.** Excellent Chemical And Harsh Condition Resistance.
- ▶ **Extended Life.** The Coated Resin Surface Increases Resistance To Chemical Corrosion And Continuous Uv Exposure.
- ▶ **Easy Fabrication.** Lightweight Structure Is Easy To Fabricate By Simple Hand Tools.
- ▶ **Stability.** Higher Loads And Corrosion Resistance For Maximum Stability.

# Classical Applications

- ▶ Platform.
- ▶ Walkway.
- ▶ Catwalk.
- ▶ Trench cover.
- ▶ Stair treads.
- ▶ Security fence.
- ▶ Boat deck.
- ▶ Transformer grating.



# Fabrication and Installation

## Cutting

Cutting of FRP grating is quite easy and similar to working with wood. Use of circular power saw with a masonry diamond tipped blade to obtain a perfect, high quality straight cut. Normal cutting speed is preferable.

## Finishing

FRP gratings are resistant to environmental and chemical corrosion, so they don't require sand blasting, painting or coating even after many years of service. Therefore after cutting of grating no any special finishing process need to be carried out.

## Installation

When installing FRP gratings, consider a free distance of 5-10 mm along all the sides (depending on the installation, temperature, application and product).

FRP gratings must be fixed with specially designed "M" or "C" clamps and fasteners. Closed panels have a natural tendency to, so it need to be completely fix to the below structure with appropriate fasteners. Material of fasteners must be SS202 or SS304 to prevent from corrosion due to environmental conditions.

# FRP Cable Tray & Accessories

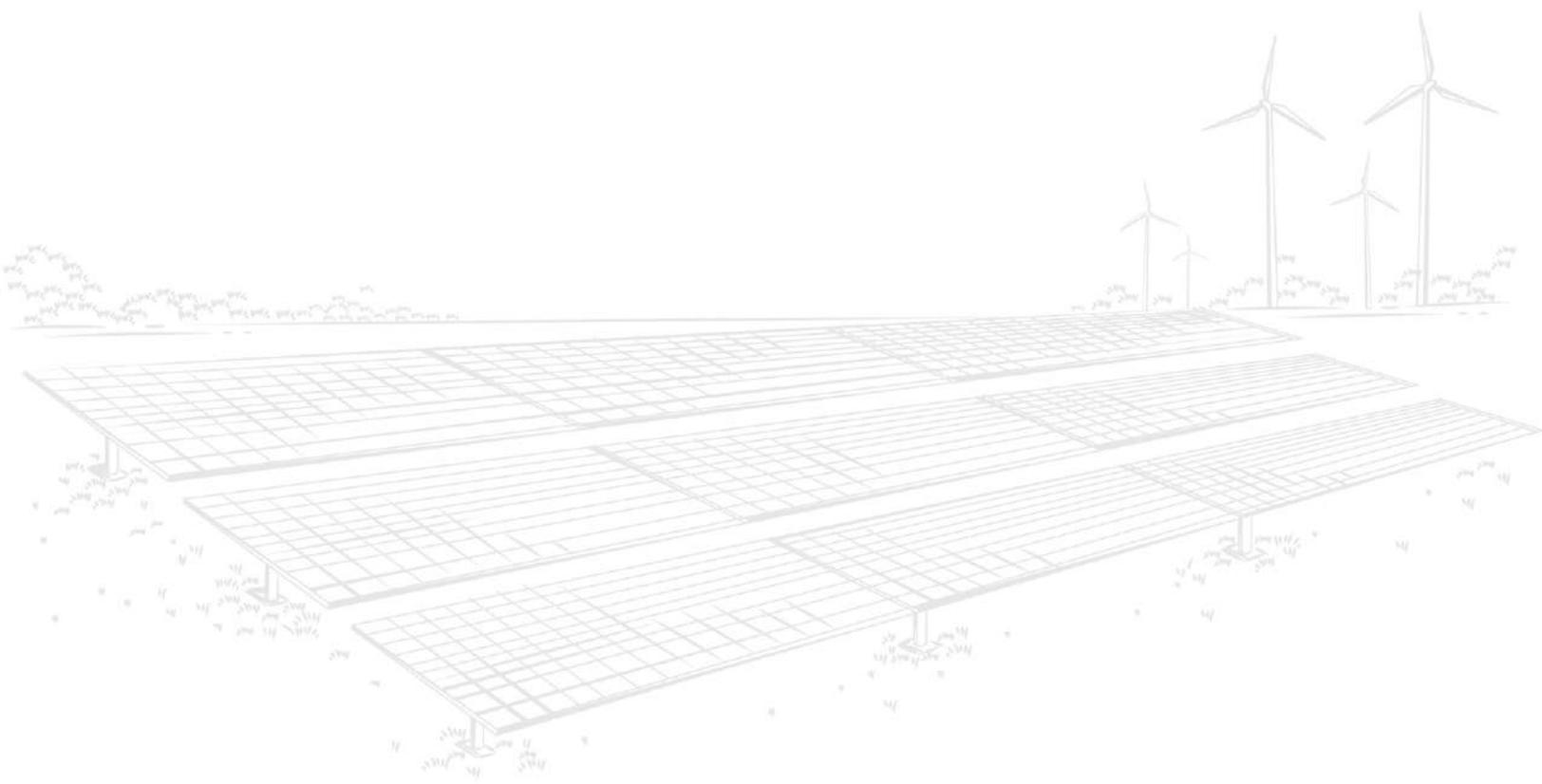
FRP cable tray gratings must be securely attached to prevent sliding and moving. This can easily be done by using these clamps.



## FRP Cable Tray & Accessories



# Our Client



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