



FIBRE CRAFT INDUSTRIES

THE FIBRE GLASS PEOPLE

FRP Gratings

FRP Side Rails & Staircase

FRP Structural Platform



Table of Content

- 1- Table of Content
- 2- FRP Molded Grating with Checker Plate
- 3- FRP Pultruded Grating
- 4- FRP Staircase & Side Rails
- 5- FRP Structural Platforms



The fiberglass grating system provides a cost effective functional solution for all flooring, walking, decking and traffic areas where superior performance in adverse conditions and corrosive environment is desired. With more than ten custom resins, Fiberglass products are proven to deliver years of reliable service, even in the most demanding corrosive conditions – conditions which cause conventional metallic and wood products to deteriorate rapidly. FRP Gratings are an essential part of Green Buildings being Environmental Friendly with longer services life and lesser footprint.

WHY Fiberglass Gratings!

Common to all grating series bonus important advantages that our gratings inherently provide to many areas of its application;

Fire Retardant	Corrosion Resistance	Resistance to Chipping and Cracking	High Fatigue Strength	High Strength
Shape Versatility	High Impact Strength	Electrically non Conductive	Cost Effective	Bidirectional Load Bearing
Light Weigh	Uniform Appearance	Predictable Physical Properties	Low Maintenance	



Oil and Gas



Chemical



Offshore



Power Plant



Industrial



Mining



Plating



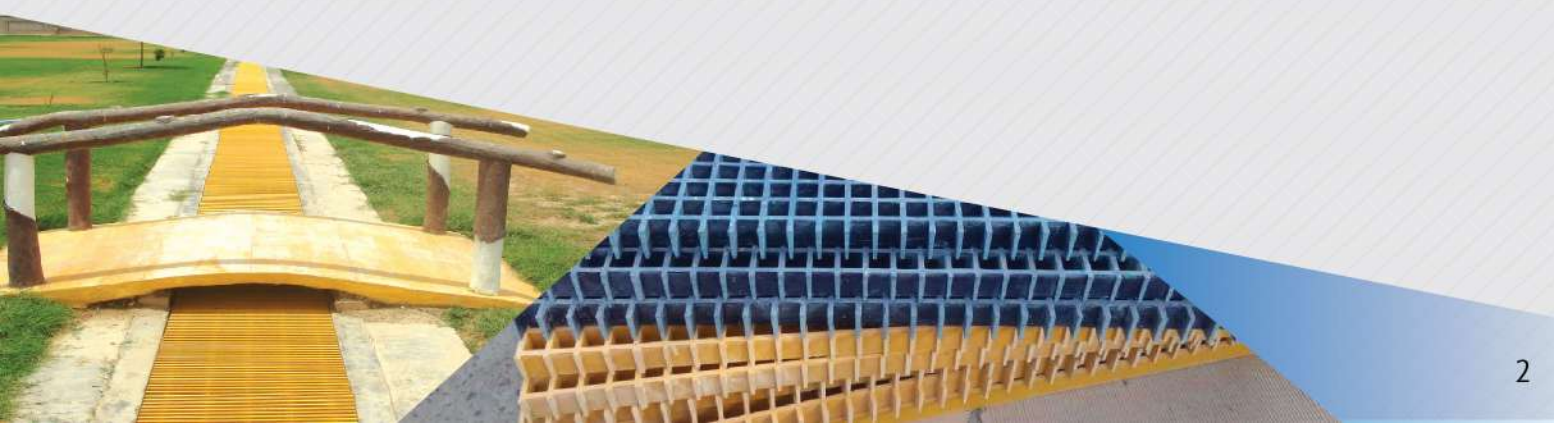
Pulp and Paper



Fire Equipment



Marine



Material of Construction

Fiberglass grating is composed of fiberglass rovings combined with a thermosetting resin. Standard resins are Orthophthalic Polyester, Iso-phthalic Polyester and Vinyl Ester. Special resins for additional fire Retardant, low smoke, and high temperature are also available upon special request. All of the resins contain a UV inhibitor.

Resin System		
Name	Corrosion Resistant	Flame Spread Rating
Iso-Phthalic	Very Good	Class-1
Vinyl Ester	Excellent	Class-1
Iso-Phthalic (F)	Good	Class-1

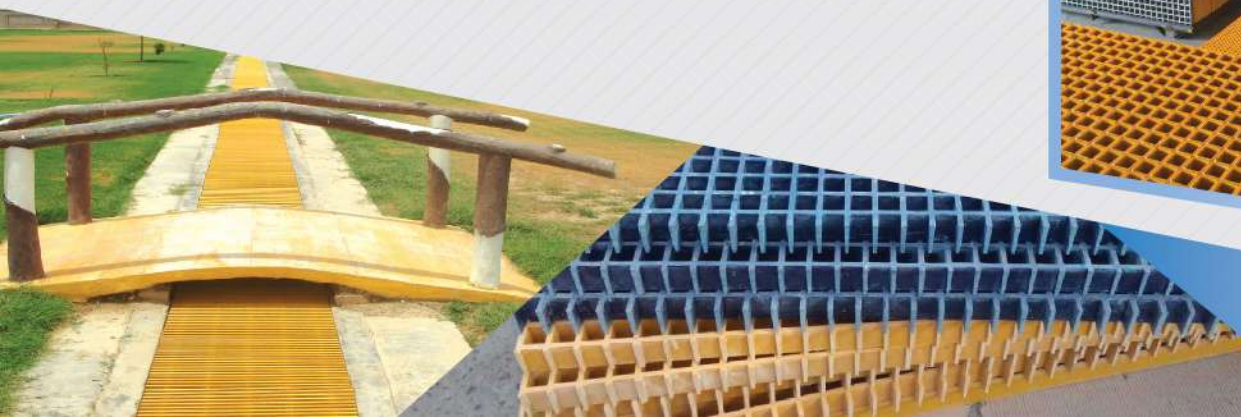
FRP Molded Grating

FCI's Molded Fiberglass Grating is a premium-quality mesh grating panel made exclusively in Pakistan. Molded grating is a chemical resistant flooring choice for many industrial applications that offers performance and quality superior to imported suppliers. The grating panels are molded in one piece and feature a concave non-slip walking surface. The panels allow for efficient on-site cutting to minimize grating waste. Molded fiberglass grating weighs significantly less than metal gratings while a high resin content provides excellent corrosion resistance which requires very little maintenance. A high glass content offers greater stiffness and strength resulting in a higher safety factor.

FCI's Molded Grating is:

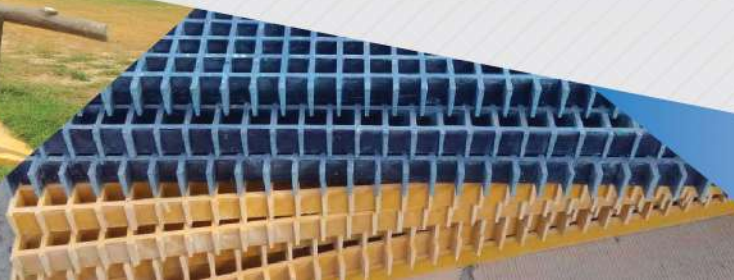
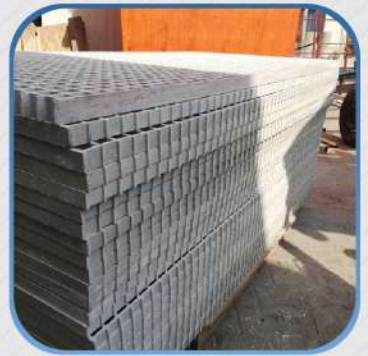
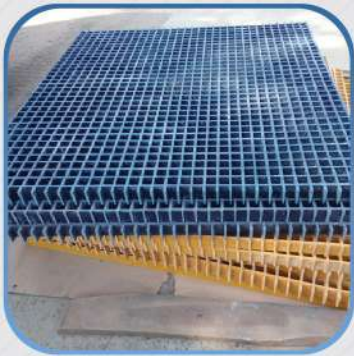
- Corrosion Resistant
- Fire Retardant
- Lightweight
- Low Maintenance
- Easy to install
- Uniform in Appearance
- Impact Resistance
- Insulator
- Cost Effective
- Color range

The grating are available in variable mesh, depth & panel size.



FCI Grating Panels Specifications

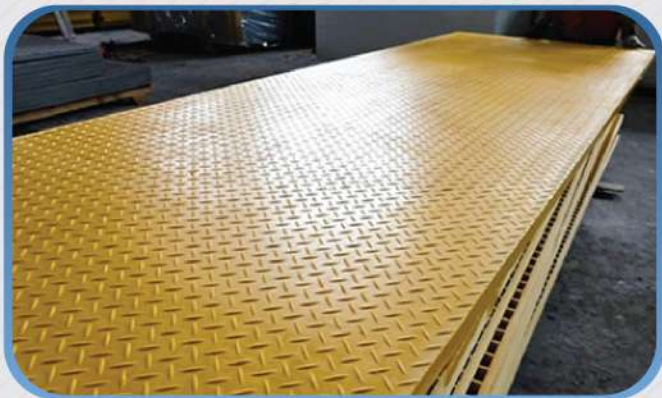
Name	Height	Mesh Pattern	Panel Size (W x L)
Square-Mesh	32 mm	38 x 38 mm Square	4 x 12 ft (Cut to customized lengths as per requirement)
	50 mm		
	60 mm		
Mini-Mesh	38 mm (max.)	14 x 14 mm Square	4 x 12 ft (Cut to customized lengths as per requirement)



FRP Molded Grating with Chequered Plate

FCI has introduced state of the art “Molded Grating” with chequered plate pre-installed to ensure highest safety by providing complete slip resistant surface & coverage. Following are the highlighted features of FRP Chequered Grating:

- Slip Resistance
- Complete Coverage



Why FRP Gratings?

Conventional metallic gratings corrode, require routine maintenance and aren't cost effective in the longer run.

Fiberglass gratings offers the most unique alternative being “Corrosion Resistant – Maintenance Free – Longer Service Life – Load Bearing & Light Weight” making them one of the most suitable material for industrial installation.

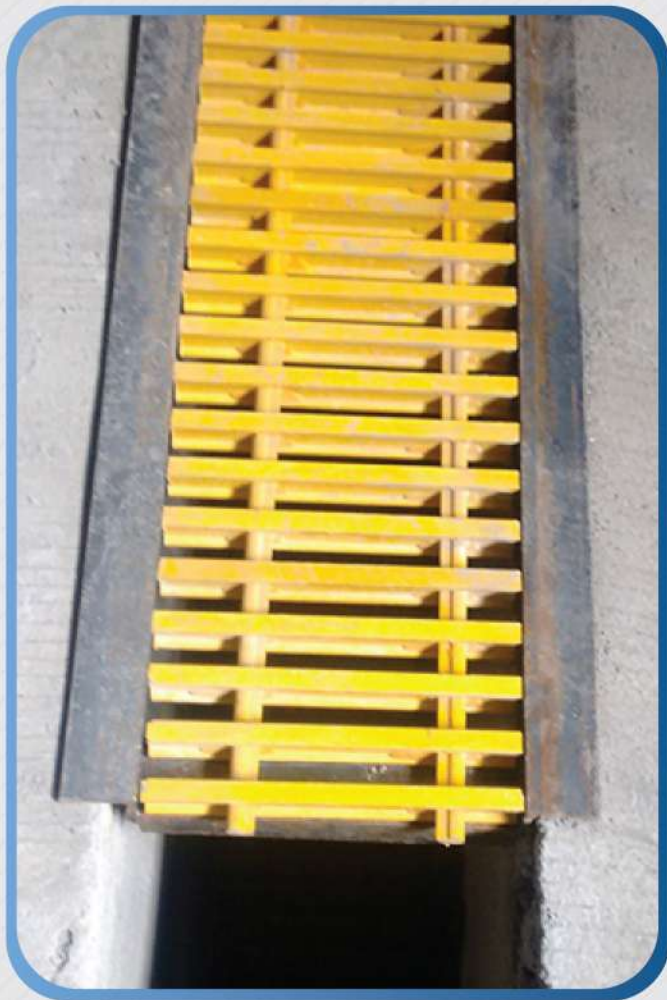
The gratings also comes in variety of colors to add aesthetics to overall plant look.



FRP PULTRUDED GRATING

High strength pultruded bar grating made exclusively by FCI, that can be used like traditional metal grates or fiberglass molded grating while offering the inherent benefits of pultrusion. Our pultruded grating is an ideal replacement for steel and aluminum, as frequent grating and walkway replacement costs are unacceptable. The lightweight grating saves on freight and makes installation easier compared to metal grating. The unique cross-bar construction allows the panels to be easily cut and modified to fit almost any requirement. At FCI we deal in I & T type pultruded gratings.

A grating series having I shaped Pultruded Bearing Bars joined by two Pultruded Cross Tie Components. Cross tie components provide a strong mechanical lock and define spacing for each bearing bar. The T series having bearing bar and cross tie tops at the same level, provide a flush top walking surface affording maximum skid resistance lateral stability and pedestrian walking comfort



FRP STAIRCASE & SIDE RAILS

Foreseeing the increasing industrial demands of “High Strength – Corrosion Resistant” stair cases & side rails FCI started manufacturing “Pultruded Structured” components to fulfil that particular demand. The systems are designed keeping in regards to the stringent industrial conditions for load bearing & corrosion resistant. When it comes to comparison they offer multiple benefits over conventional materials. Some of them are mentioned below;

Advantages of FRP Structures:

- Corrosion Resistant
- Chemical Resistant
- Light Weight
- High strength to weight ratio
- Low maintenance
- Longer service life
- Dimensional Flexibility
- Fire resistant
- Insulator
- Cost effective

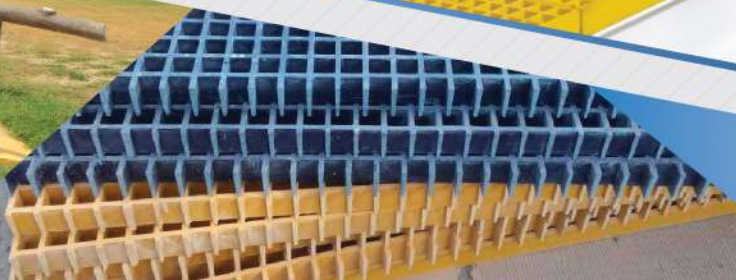


FRP STRUCTURAL PLATFORMS

The FRP platforms are much more durable than aluminum or steel and the low electrical conductivity of FRP makes the operating platforms much safer for workers. Additionally, the lightweight FRP shapes, grating and handrail made the installation easier and faster. FRP platforms are a much better solution for corrosive operating environments like those found in refineries, steel mills, fertilizer industries and many chemical handling environments. The platform can also protect the floor from getting damaged by the chemicals and acids. As a result, fiberglass has become the material of choice for such operations.

FCI initiated manufacturing of these platforms for the industrial sector of Pakistan. The systems are the first choice for some of the leading industrial sectors. The outstanding features of these platforms are listed below;

- Corrosion Resistant
- Chemical Resistant
- Light Weight
- High strength to weight ratio
- Low maintenance
- Longer service life
- Dimensional Flexibility
- Cost effective





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