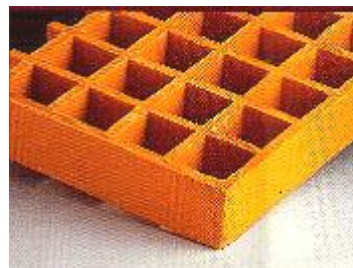


FRP Grating Page 1 of 4

Fiberglass reinforced plastic (FRP) grating have been engineered not only for high strength, but also to overcome corrosion problems found in chemical and mining industries where corrosive products are used. These are areas where metal grating rapidly deteriorates or creates a constant maintenance problem. FRP Grating is a cost-effective solution with the following characteristics



The advanced resin & glass systems and manufacturing techniques employed in the production of fiberglass grating makes it ideal for use in the following areas:

- Corrosion Resistant. Easily outperforms metal grating.
 - Fire Resistant.
 - Non-sparking. Ideal where combustible gas or materials are present.
 - Non-conductive. Good where electric hazards are present
 - Non-magnetic. Use in sensitive locations where the magnetic properties of metal grating are proven to be unfavourable.
 - Low thermal conductivity. An excellent insulator and safeguard against inadvertent skin-contact with extreme temperature surfaces.
 - Good impact resistance. Allows repeated deflections without being permanently deformed.
 - Slip resistant (with concave bars and grit-top surface available)
 - Maintenance freedom!
 - Light in weight.
 - Easy installation. Cut and shape easily with hand tools.
- Walkways
 - Pit Covers
 - Stairs
 - Machinery Guards
 - Screens
 - Battery Racks

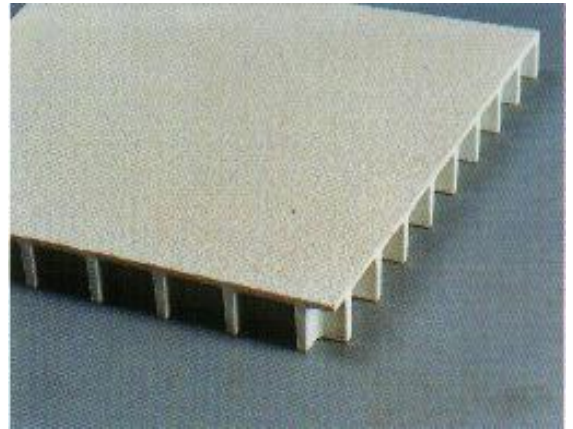
20mm Square Mesh Molded Grating					
Thickness	Bar Spacing	Internal Bar Space	Panel Size	Weight/Sq Meter	Open Area
30mm	20x20mm	13x13mm	1000x2000mm	15.8 kg	42%
38mm Square Mesh Molded Grating					
Thickness	Bar Spacing	Panel Sizes		Weight/Sq Meter	Open Area
26mm	38x38mm	915x3050mm, 1220x2440mm, 1220x3050mm, 1220x3660mm.		11.42kg	70%
38mm	38x38mm			18.36kg	69%
40mm Square Mesh Molded Grating					
Thickness	Bar Spacing	Panel Sizes		Weight/Sq Meter	Open Area
26mm	40x40mm	1007x3007mm and 1000x2000mm		12kg	69%
30mm				14.4kg	68%
38mm				18.2kg	67%
40mm				19.2kg	67%
50mm Square Mesh Molded Grating					
Thickness	Bar Spacing	Panel Size		Weight/Sq Meter	Open Area
50mm	50x50mm	1220x3660mm		20kg	69%

FRP Grating Page 2 of 4

Covered FRP Grating

All types of FRP grating are now available with molded-on covers

- Cover thickness 3mm (1/8") and 5mm (1/4").
- Covers are laminated on to the top surface of the FRP grating.
- The strength of the grating provides excellent support to the laminated lightweight FRP sheet.
- A high strength and lightweight composite floor.
- Top surface supplied with or without grit-top non-slip surface.

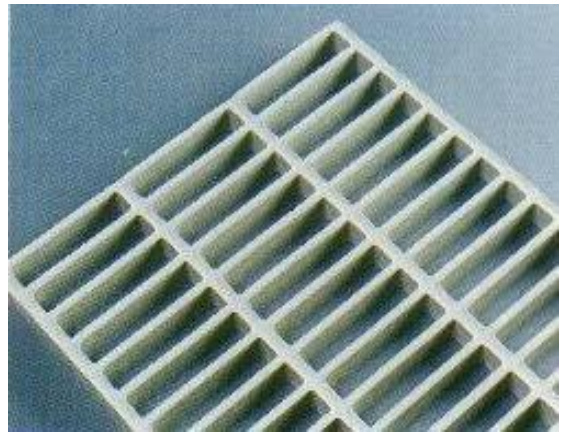


Above: Covered FRP grating - strong fiberglass grid underneath with lightweight FRP sheet on top

Fiberglass FRP Plate

Fiberglass plate can also be supplied and provides a durable and cost-effective structural panel that can be used for flooring or walls

- Plate is manufactured by building up multiple layers of fiberglass reinforcement with specially formulated resins resulting in a solid composite panel.
- Excellent bi-directional strength and corrosion resistance.
- Ideal as flooring and insulation over structural members or existing grating. Provides a solid walkway.
- Plate can be bolted directly to structural beams and used as a wall panel resistant to corrosive splash.



Above: Rectangular FRP grating

Fiberglass FRP Plate Sizes

- Standard panels size 1220mm x 3660mm (4'x12')
- Thickness 3mm to 19mm (1/8" to 3/4")
- Fire retardant ASTM E-84
- Molded

Rectangular FRP Grating

Fiberglass rectangular FRP grating is a great reinforced composite molded grating with concave non-slip top bars

- Uniform placement of continuous glass strands during manufacture provides superior strength.
- A good choice for walkway and trench covers in many industrial applications.

Rectangular FRP Grating 12mm x 102mm (1x4")							
Thickness	Bearing Bar		Cross Bar		Panel Size	Weight/Sq Meter	Open Area
	Width	Space	Width	Space			
26mm	6.3mm	25.4mm	9.5mm	102mm	915x3050mm	13.4kg	69%
1"	1/4"	1"	3/8"	4"	3'x10'	2.75lbs	69%

FRP Grating Page 3 of 4

FRP Stair Treads

Fiberglass reinforced plastic stair treads are made in convenient sizes with the following special safety features

- Standard non-slip concave surface bars
- Optional grit-top surface treatment available on stair treads
- Stair treads also available with gritted nosing applied (as shown in picture)
- Available in three resin systems: vinylester, isophthalic or orthophthalic
- Stair tread panels available in larger sizes than the standard 305mm (12") size. Ask us for details
- Optional stainless steel fixing clips with bolts/nuts available
- A good choice for stairs where superior strength and maintenance freedom is required
- Good variety of colors available



Above: FRP stair treads shown here with gritted nosing. In addition to the standard non-slip concave bars, a gritted non-slip treatment can also be applied to the top of the tread bars.

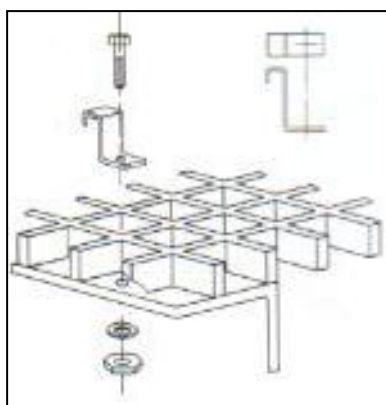
- Fire retardant
- Long Service Life
- Impact resistant
- Corrosion resistant
- Maintenance Free

FRP Stair Treads							
Type	Thickness	Width	Tread Length				
Square Mesh	38mm (1-1/2")	Up to 305mm (12")	610mm (2')	762mm (2'-6")	915mm (3')	--	--
Square Mesh	50mm (2")	Up to 305mm (12")	610mm (2')	762mm (2'-6")	915mm (3')	1068mm (3'-6")	1220mm (4')

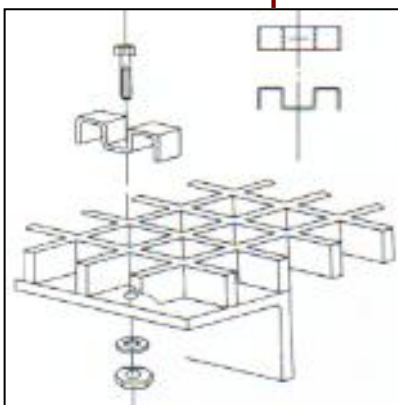
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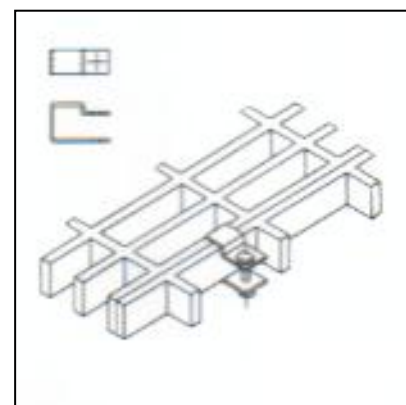
Stainless Steel Hold-Down Clips



Above - **Type L** stainless steel hold down clip.



Above - **Type M** stainless steel hold down clip.



Above - **Type C** stainless steel end panel clips

Resin Systems for Molded FRP Grating

Resin Code	Resin Base	Description	Corrosion Resistance	Flame Spread Rating (ASTM-E84)
V-CF	Vinyl ester	Chemical proof and fire	Excellent	Class 1 - 25 or less
V-CR	Vinyl ester	Chemical proof and fire retardant plus	Excellent	Class 1 - 10 or less
I-IF	Isophthalic	Industrial grade fire	Very good	Class 1 - 25 or less
I-FF	Isophthalic	Food grade fire	Very good	Class 1 - 30 or less
O-AF	Ortho phthalic	Architectural grade fire	Good	Class 1 - 25 or less
O-AN	Ortho phthalic	Architectural grade non fire	Good	Not rated

- V-CF: A premium resin offering outstanding resistance to a wide range of highly corrosive environments from acidic to caustic plus a high degree of solvent resistance. It has a class 1 flame spread rating of 25 or less according to ASTM E-84 tunnel test.
- I-FF: This resin system is designed to meet corrosive conditions commonly found in meat production, food processing, bottling and brewing applications. This isophthalic polyester resin offers a flame spread rating of 30 or less as per ASTM E-84.
- V-CR: This highly corrosion-resistant resin is recommended for use where high flammability conditions exist. Resin offers a flame spread rating of 10 or less on the ASTM E-84 tunnel test.
- O-AF: This is a resin system designed for mildly corrosive environments. It has a class 1 ASTM E-84 tunnel test flame spread rating of 25 or less for indoor use.
- I-IF: Designed for industrial and chemical processing applications in moderately corrosive environments. This isophthalic resin has a class 1 ASTM tunnel test flame spread rating of 25 or less.
- O-AN: Similar resin as above type O-AF but not fire retardant.

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