



## GRP GRATING AND FLOORING PRODUCTS



GFP Engineering Ltd. supplies from stock an extensive range of glass fibre reinforced flooring grating and slip resistant flooring products. They are all made from glass reinforced polyester resin giving excellent corrosion resistance and weatherability at an economic cost. All the products can be made to order in other resin systems including vinyl ester for extra corrosion resistance. All the flooring products comply with the relevant British and EN standards.

GRP open mesh moulded grating is available in a range of different panel sizes, all with a gritted slip resistant top surface. The grp grating is easy to cut to shape making for fast installation even in complex layouts. All the gratings are fire retardant to ASTM E 84.

GRP grating can be supplied on short lead times in **25mm, 38mm and 50mm deep** mesh either open grid or solid top flooring which can be utilised in many different ways. GFP can either supply separate GRP grating panels in many sizes or fabricate walkway or cover flooring with hatches or steps to suit. We offer a complete cutting service for any size and shape including circular, semi-circular or hexagon.

The benefits of GRP grating / flooring solution over a like for like steel grating are as follows:

- Fire Retardant to ASTM E 84
- Anti Slip Resistant
- Excellent Corrosion Resistance
- Maintenance Free Life Span
- Unrivalled Impact Resistance (High strength to weight ratio)
- Electrically and Thermally Non-conductive
- Ideal to Fabricate with on site (Cut to size)
- Vandal Proof (No scrap value)

All our GRP flooring products adhere to the relevant British and EN standards as follows:

BS EN ISO 14122 - Permanent means of access to industrial machinery.

BS 5395:3 - Stairs, ladders and walkways. Code of practice for the design of industrial type stairs, permanent ladders and walkways

BS 4592 - Industrial type flooring, walkways and stair treads.

All our gratings and flooring panels are fire retardant to ASTM E 84.

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GRP open mesh moulded grating and solid top grating is available from stock in various panel sizes at 25, 30, 38, 40 and 50mm thick, all with a gritted slip resistant top surface or on request with an ungritted or concave top surface finish. The grating is easy to cut to shape making for fast installation even in complex layouts and on request we can to size in house ship directly to site or a premises which will make installation and handling easier.

A few ideas as to what GRP grating and flooring can be used for is as follows:

GRP grating supplied by GFP Engineering has been utilised in many areas of the Construction and Water utility industries for applications such as **GRP Trench Covers, GRP Access Covers, GRP Pontoon Decking Platform, GRP Screens, GRP Vent Grilles, GRP Gully Covers, GRP Work stations and GRP track crossings.**

Our 500mm wide **GRP deck plank** is ideal for odour control covers as it is has ribbed feet for strength, tongue and groove connection for excellent sealing, gritted or plain finish and is lightweight for easy site cutting and fabrication. It can be supplied in up to 6m lengths and is already used widely in the odour control cover market.

We also carry in stock or on short lead time of 316 stainless steel hold down clips suitable for all forms of GRP grating including:

**M type clips - Holding down panels to angle ledges and concrete**

**J type clips - Birdsmouth clamp system with square plate on top and square nut below**

**C type clips - Holding together panels butted together**

#### **GRP ENGINEERING GRATINGS – UDL (kN/m<sup>2</sup>) Loading Chart**

Grating depth	25mm		38mm		50mm	
Mesh	38x38mm					
Span (mm)	UDL(kN/m <sup>2</sup> )	Deflection (mm)	UDL(kN/m <sup>2</sup> )	Deflection (mm)	UDL(kN/m <sup>2</sup> )	Deflection (mm)
300	34.53	1.5	80.67	1.5	153.73	1.5
400	14.57	2.0	34.03	2.0	64.85	2.0
500	7.96	2.5	22.74	2.5	39.89	2.5
600	4.61	3.0	13.16	3.0	28.37	3.0
700	3.01	3.5	9.04	3.5	17.87	3.5
800	2.02	4.0	6.77	4.0	14.09	4.0
900	1.42	4.5	4.76	4.5	10.28	4.5
1000			3.47	5.0	7.49	5.0
1100			2.61	5.5	5.98	5.5
1200			2.14	6.0	4.60	6.0
1300			1.69	6.5	3.62	6.5
1400			1.35	7.0	2.90	7.0
1500					2.36	7.5
1600					1.94	8.0
1700					1.62	8.5
1800					1.36	9.0