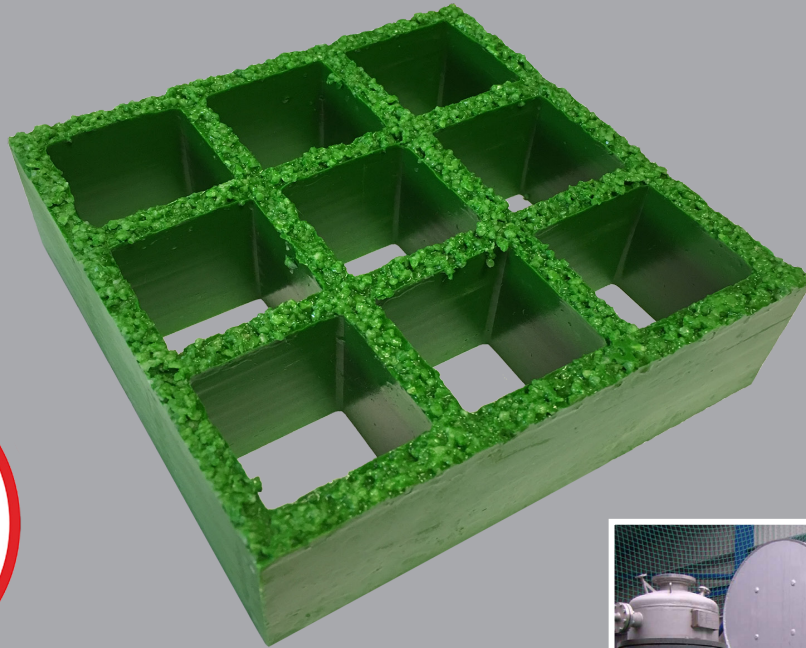




FIBREGRID

The Anti Slip Flooring People

Heavy Duty GRP Embedded Grit Grating



Product Description

FibreGrid Grating panels are a high performance open mesh flooring system, made from high quality FRP (fibre reinforced plastic). The product is used for a vast amount of different applications.

The Heavy Duty GRP Embedded Grit grating is constructed using high grade chemical resistant Isophthalic Polyester resin (full chemical resistance chart available on request). The resin will include a UV inhibitor and be fire retardant according to BS 476: Part 7 Class 2 rating (certificate available on request). The gratings shall have an "embedded" grit top surface for superior hard wearing qualities.

If required, Grating panels can be trimmed on site to suit using an industrial jigsaw and appropriate cutting blades (Bosch "T101 A1F" or similar are ideal).



Suitable Applications

Walkways, Gullies, Trenches, Cooling towers,
Overhead Gantries and Railway Crossing points.



Characteristics

- Slip resistant top surface
- Impact resistant
- Fire retardant
- Corrosion resistant
- Lightweight
- Non sparking
- Non metallic
- Tough & durable
- Choice of mesh pattern
- Choice of thickness
- Choice of colours
- Choice of top surface
- Quick installation
- Manufactured to ISO 9001
- No scrap value

Heavy Duty GRP Embedded Grit Grating



Technical Data

Description:	High performance composite grating system
Top finish:	Heavy duty embedded grit made from our ExtremeCore® grit
Stock colours:	Green, Grey or Yellow (Any RAL or BS colour subject to extended lead time)
Thickness:	13mm, 14mm, 25mm, 30mm, 38mm, 40mm, 50mm, 60mm
Panel sizes:	See enclosed list
Mesh patterns:	See enclosed list
Chemical resistance:	See enclosed list
Tolerances (including cut):	+/- 7mm width, length and diagonal
Depth tolerances:	+/- 1.5mm
Service temperatures:	-50 to 105°C
Load capabilities:	See enclosed list
Design life:	20+ years (subject to traffic analysis)
General use:	Suitable for Industrial Traffic
Other info:	Made via heated mould system
Chemical resistance:	Made from ISO resin as standard. Different chemical resistance available, please refer to the enclosed list.
Standards: Fire:	Tested to BS 476: Part 7 and met the performance requirements of Class 2.
General:	FibreGrid grating fully complies with BS 4592-6:2008 (Industrial GRP Flooring)



Grating Slip Resistant Values

Measured using the Pendulum test method (WF rubber slider) - certificate available on request.

Top Surface	Dry Reading	Wet Reading
Heavy Duty Embedded Grit Top	71	56

The UK Slip Resistance Group guide to slip resistance of a floor for able bodied pedestrians:

Four S Pendulum Value	Potential for Slip
Above 65	Extremely Low
35 to 65	Low
25 to 35	Moderate
25 and Below	High

To ensure that the above slip resistant levels are maintained the panels should be kept clean in accordance with the information below.



Cleaning Guide and Tips

Whilst Heavy Duty GRP Embedded Grit Grating is extremely resilient to dirt and contaminants, it can, as with most other things, become dirty.

Dirt and debris can easily be removed using a stiff brush and should be carried out on a regular basis.

If Heavy Duty GRP Embedded Grit Grating has been subjected to spillages or the dirt has become embedded, detergents such as Heavy Duty Degreaser or similar can be used. It is always advisable to test any cleaning product on Heavy Duty GRP Embedded Grit Grating before starting the cleaning procedure. This can be done in an inconspicuous area of the installation or, if preferred, a sample can be sent, free of charge for testing purposes.

Using the detergent, warm water and a suitable brush, scrub the areas until clean. The excess water can be removed using a wet/dry vacuum cleaner or suitable absorbable materials.

Where circumstances allow, Heavy Duty GRP Embedded Grit Grating can be power washed without causing harm.

General Routine Maintenance

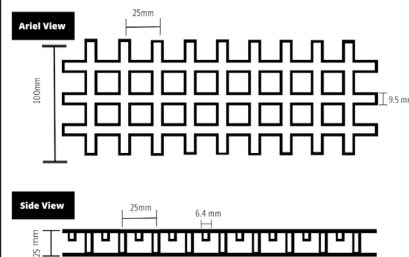
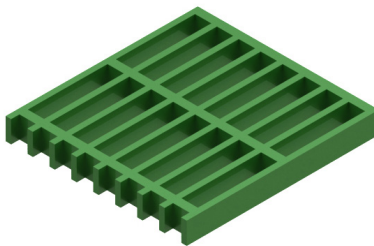
The security of the fixings/adhesive should be checked on a regular basis. Circumstances will vary, based upon the volume of foot traffic etc, as a guide, monthly inspections would be advisable.



Grating Specification/Types

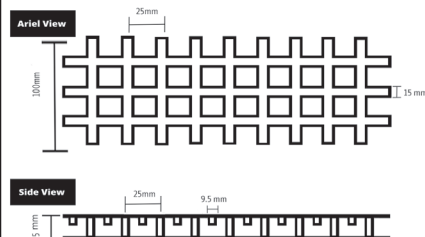
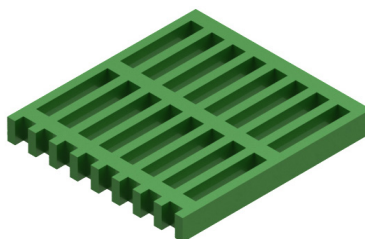
FG01

Grating Name	FG01
Grid Pattern	25x25x100 RM
Load Bar Thickness	6.4
Load Bar Centres	25
No. Bars per foot	12
Open Area	68%
Approx. Weight	13.83 kg's/sq.m
Panel Sizes Available(mm)	3660 x 1220, 2440 x 1220, 3050 x 915



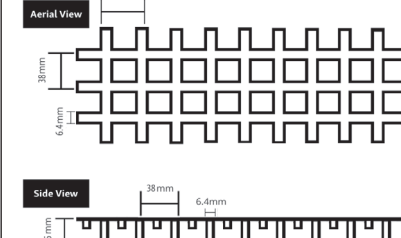
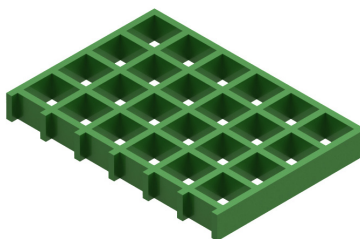
FG02

Grating Name	FG02
Grid Pattern	25x25x100 RM
Load Bar Thickness	9.5
Load Bar Centres	25
No. Bars per foot	12
Open Area	52%
Approx. Weight	19.3 kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220, 2440 x 1220, 3050 x 915



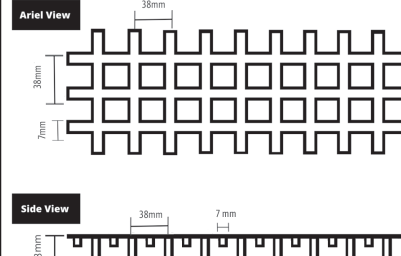
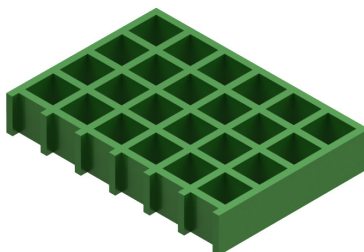
FG03

Grating Name	FG03
Grid Pattern	25x38 SM
Load Bar Thickness	6.4
Load Bar Centres	38
No. Bars per foot	8
Open Area	68%
Approx. Weight	12.3 kg's/sq.m
Panel Sizes Available (mm)	4000 x 1220, 3660 x 1220, 3010 x 996, 1985 x 996, 2440 x 1220, 3050 x 915



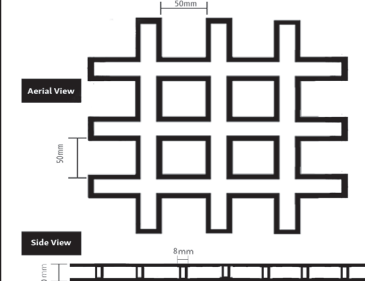
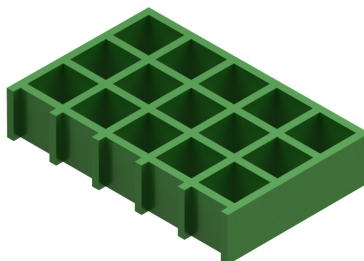
FG04

Grating Name	FG04
Grid Pattern	38x38 RM
Load Bar Thickness	7
Load Bar Centres	38
No. Bars per foot	8
Open Area	68%
Approx. Weight	19.5 kg's/sq.m
Panel Sizes Available (mm)	4000 x 1524, 3050 x 1524, 4000 x 1220, 3660 x 1220, 3010 x 996, 1985 x 996, 2440 x 1220, 3050 x 915



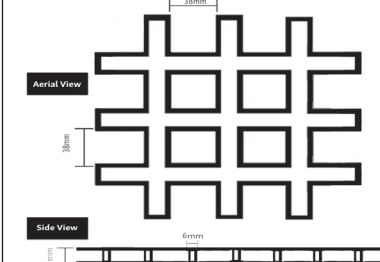
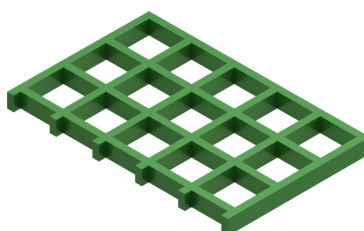
FG05

Grating Name	FG05
Grid Pattern	50x50 RM
Load Bar Thickness	8
Load Bar Centres	50
No. Bars per foot	8
Open Area	78%
Approx. Weight	23.51 kg's/sq.m
Panel Sizes Available (mm)	4000 x 1220, 3660 x 1220, 3050 x 915



FG06

Grating Name	FG06
Grid Pattern	13x38 SM
Load Bar Thickness	6
Load Bar Centres	38
No. Bars per foot	8
Open Area	78%
Approx. Weight	6.0 kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220, 2440 x 1220, 3050 x 915

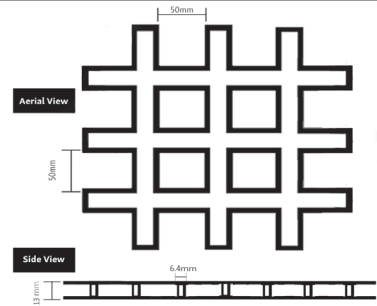
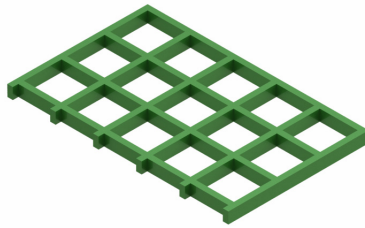




Grating Specification/Types

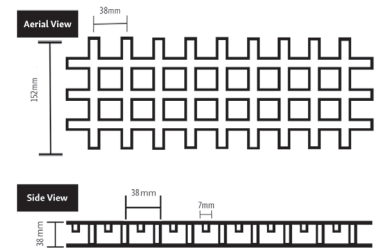
FG07

Grating Name	FG07
Grid Pattern	13x50 SM
Load Bar Thickness	6.4
Load Bar Centres	50
No. Bars per foot	6
Open Area	82%
Approx. Weight	5.77 kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220, 2440 x 1220, 3050 x 915



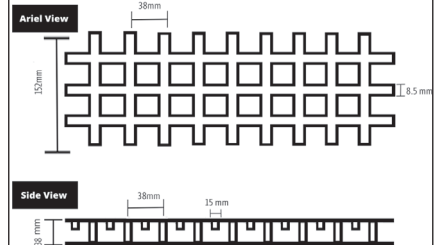
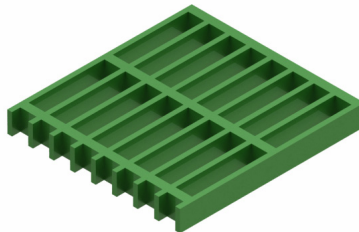
FG08

Grating Name	FG08
Grid Pattern	38x38x152 RM
Load Bar Thickness	7
Load Bar Centres	38
No. Bars per foot	8
Open Area	67%
Approx. Weight	15.93 kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220



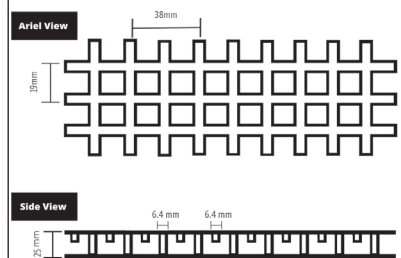
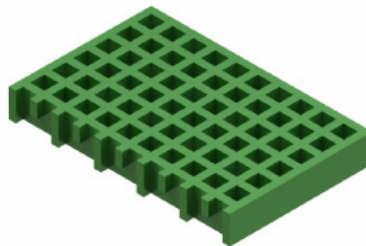
FG09

Grating Name	FG09
Grid Pattern	38x38x152 RM
Load Bar Thickness	15
Load Bar Centres	38
No. Bars per foot	8
Open Area	67%
Approx. Weight	18.62 kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220



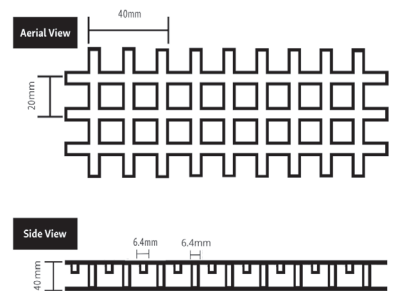
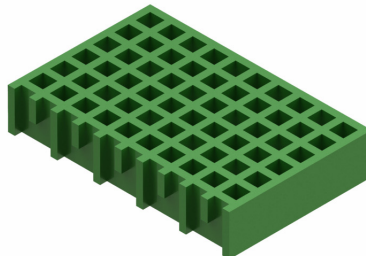
FG10

Grating Name	FG10
Grid Pattern	25x19 SM
Load Bar Thickness	6.4
Load Bar Centres	19
No. Bars per foot	16
Open Area	42%
Approx. Weight	16.81 kg's/sq.m
Panel Sizes Available (mm)	4000 x 1220, 3660 x 1220, 2440 x 1220, 3050 x 915,



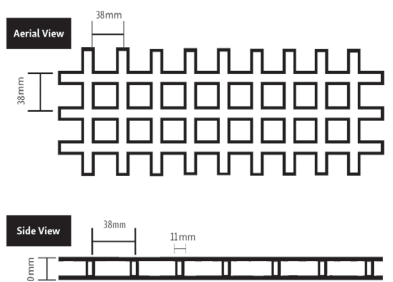
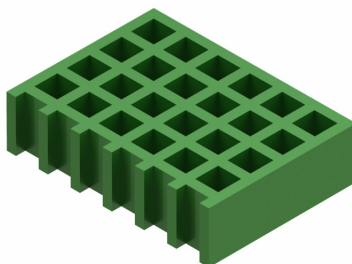
FG13

Grating Name	FG13
Grid Pattern	40x20 TGSM
Load Bar Thickness	6.4
Load Bar Centres	20
No. Bars per foot	16
Open Area	42%
Approx. Weight	23.70 kg's/sq.m
Panel Sizes Available (mm)	4000 x 1007, 3007 x 1007,



FG14

Grating Name	FG14
Grid Pattern	60x38 SM
Load Bar Thickness	11
Load Bar Centres	38
No. Bars per foot	8
Open Area	58%
Approx. Weight	50.43 kg's/sq.m
Panel Sizes Available (mm)	4000 x 1220, 3660 x 1220, 3050 x 915

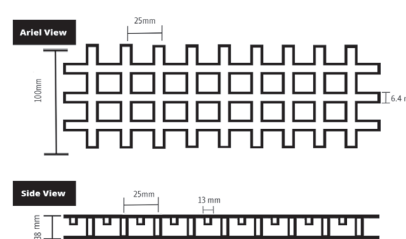
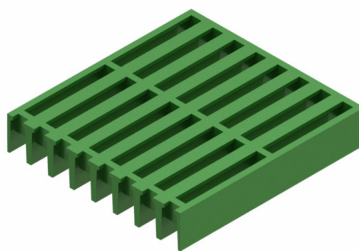




Grating Specification/Types

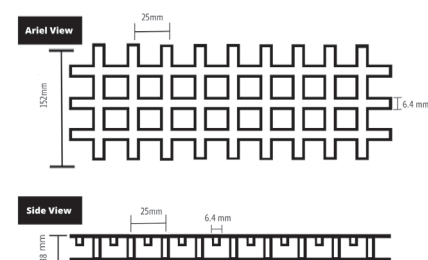
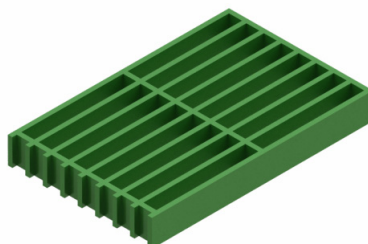
FG15

Grating Name	FG15
Grid Pattern	38x25x100 RM
Load Bar Thickness	6.4
Load Bar Centres	25
No. Bars per foot	12
Open Area	46%
Approx. Weight	21.01 kg's/sq.m
Panel Sizes	3660 x 1220



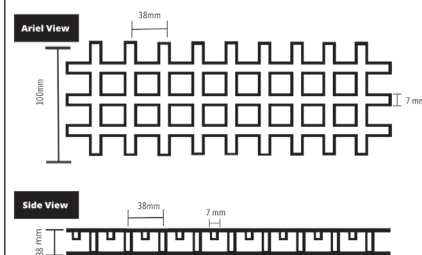
FG16

Grating Name	FG16
Grid Pattern	38x25x152
Load Bar Thickness	6.4
Load Bar Centres	25
No. Bars per foot	12
Open Area	56%
Approx. Weight	23.02 kg's/sq.m
Panel Sizes Available (mm)	3050 x 565



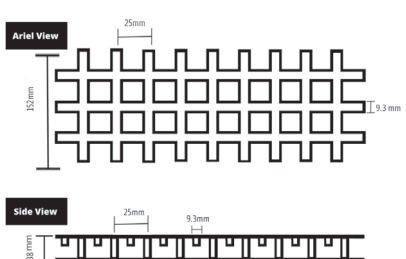
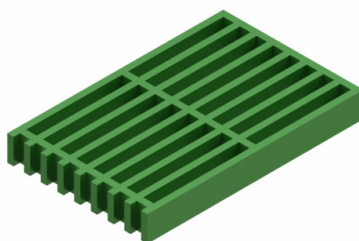
FG17

Grating Name	FG17
Grid Pattern	38x38x100 RM
Load Bar Thickness	7
Load Bar Centres	38
No. Bars per foot	8
Open Area	62%
Approx. Weight	15.20 kg's/sq.m
Panel Sizes	3660 x 1220



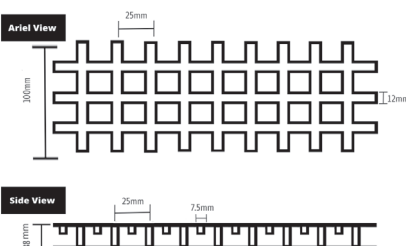
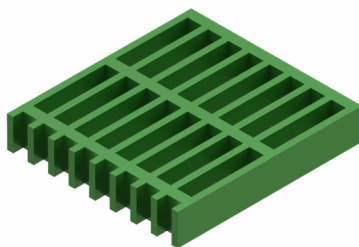
FG19

Grating Name	FG19
Grid Pattern	38x25x152 RM
Load Bar Thickness	9.3
Load Bar Centres	25
No. Bars per foot	12
Open Area	56%
Approx. Weight	22.43 kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220, 2440 x 1220, 3050 x 915



FG20

Grating Name	FG20
Grid Pattern	38x25x100 RM
Load Bar Thickness	7.5
Load Bar Centres	25
No. Bars per foot	12
Open Area	68%
Approx. Weight	22.43 kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220, 2440 x 1220, 3050 x 915

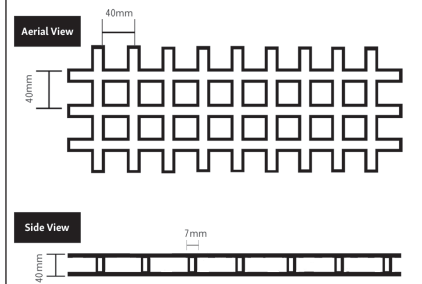
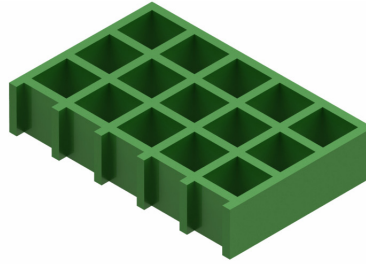




Grating Specification/Types

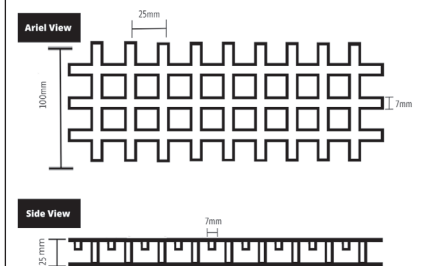
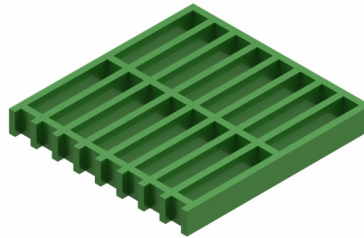
FG21

Grating Name	FG21
Grid Pattern	40x40 SM
Load Bar Thickness	7
Load Bar Centres	40
No. Bars per foot	
Open Area	67%
Approx. Weight	19.2 kg's/sq.m
Panel Sizes Available (mm)	3007 x 1007



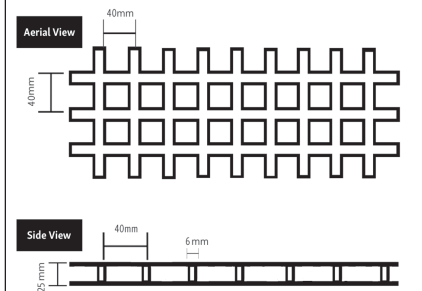
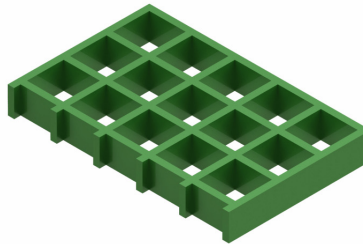
FG22

Grating Name	FG22
Grid Pattern	25x25x100
Load Bar Thickness	7
Load Bar Centres	25
No. Bars per foot	
Open Area	67%
Approx. Weight	13 kg's/sq.m
Panel Sizes Available (mm)	3007 x 1007



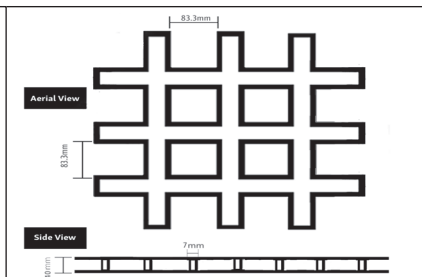
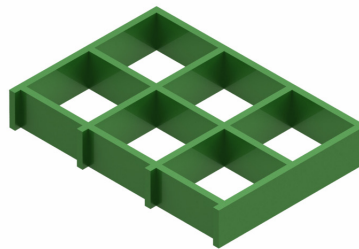
FG23

Grating Name	FG23
Grid Pattern	25x40 SM
Load Bar Thickness	7
Load Bar Centres	40
No. Bars per foot	
Open Area	67%
Approx. Weight	12 kg's/sq.m
Panel Sizes Available (mm)	3007 x 1007



FG24

Grating Name	FG24
Grid Pattern	40x83.3 SM
Load Bar Thickness	7
Load Bar Centres	83.3
No. Bars per foot	
Open Area	83%
Approx. Weight	9.50 kg's/sq.m
Panel Sizes Available (mm)	3007 x 1007





Chemical Resistance chart

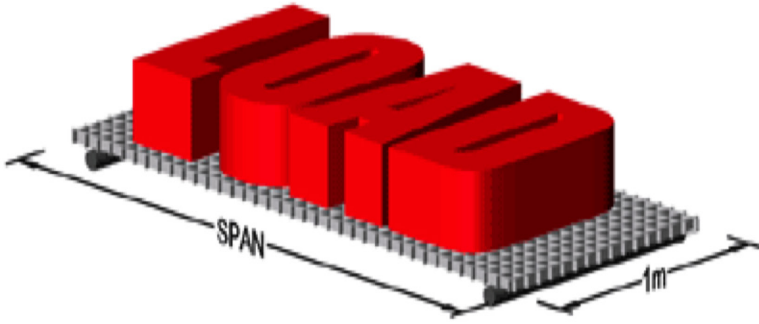
	ISOPHTHALIC		VINYL ESTER	
	%Concentration	Temp F/°C	%Concentration	Temp F/°C
Acetic Acid	50	125/50	50	185/85
Acetone	N/R	N/R	100	75/25
Aluminum Salts	All	160/70	All	195/90
Ammonium Chloride	All	160/70	All	185/85
Ammonium Hydroxide	28	N/R	28	100/38
Ammonium Carbonate	N/R	N/R	All	150/65
Ammonium Bicarbonate	15	125/50	All	125/50
Ammonium Nitrate	All	160/70	All	185/85
Benzene	N/R	N/R	100	140/60
Benzene Sulfuric Acid	25	115/45	All	195/90
Benzoic Acid	All	150/65	All	195/90
Calcium Hydroxide	25	150/65	35	185/85
Calcium Hypochlorite	All	150/65	All	185/85
Calcium Salts	All	150/65	All	195/90
Calcium Nitrate	All	185/85	All	195/90
Carbonic Acid	All	125/50	All	185/85
Carbon Tetrachloride	100	75/25	100	140/60
Chlorine Dioxide	N/R	140/60	All	140/60
Chlorine Water	All	150/65	All	125/50
Chromic Acid	100	75/25	10	185/85
Citric Acid	All	N/R	All	185/85
Copper Cyanide Plating	All	150/65	All	185/85
Copper Salts	All	150/65	All	185/85
Ethanol	50	75/25	50	85/30
Ethyl Acetate	N/R	N/R	N/R	N/R
Ferric Chloride	100	150/65	100	185/85
Ferric Salts	All	150/65	All	185/85
Glycerine	100	150/65	100	195/90
Heptane	100	105/40	100	125/50
Hydrobeomic Acid	50	125/50	50	125/50
Hydrochloric Acid	37	75/25	37	95/35
Hydrocyanic Acid	All	150/65	All	185/85
Hydrogen Peroxide	10	75/25	30	125/50
Hypochlorides Acid	20	85/30	20	150/65
Lactic Acid	All	170/75	All	195/90
Lead Acetate	All	170/75	All	195/90
Lead Chloride	All	140/60	All	195/90
Lead Nitrate	All	150/65	All	195/90
Lime Slurry	All	150/65	All	185/85
Magnesium Salts	All	150/65	All	185/85
Maleic Acid	100	150/65	100	185/85
Mercury Chloride	100	150/65	100	185/85
Nickel Salts	All	170/75	All	195/90
Nitric Acid	20	75/25	20	105/40
Perchloric Acid	N/R	N/R	30	85/30
Phosphoric Acid	100	125/50	100	195/90
Potassium Salts	All	150/65	All	185/85
Ophthalmic Acid	-	-	All	185/85
Silver Nitrate	100	150/65	100	185/85
Sodium Hypochlorite	N/R	N/R	10	150/65
Sodium Salts	All	75/25	All	105/40
Stannic Chloride	All	160/70	All	195/90
Styrene	N/R	N/R	N/R	N/R
Sulfuric Acid	50	N/R	50	185/85
Sulfuric Acid	25	75/25	25	195/90
Tartaric Acid	All	170/75	All	195/90
Trisodium Phosphate	N/R	N/R	All	170/65
Urea	All	125/50	All	140/60
Vinegar	100	170/75	100	195/90
Water, Distilled	100	170/75	100	195/90
Water, Sea	wAll	170/75	All	195/90
Zinc Salts	100	150/65	100	185/85

All = All concentrations N/R = Not Recommended

The corrosion resistance data listed above is for general information only. Resin manufacturers have provided test data which indicates that the specific resin can withstand the corrosion conditions listed above. FibreGrid Limited believes the data to be true and accurate but no guarantee is expressed or implied as to specific performance. Testing for specific environments is recommended. Our responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material sold by FibreGrid Limited.



Uniform Load Table - Deflection in (mm)



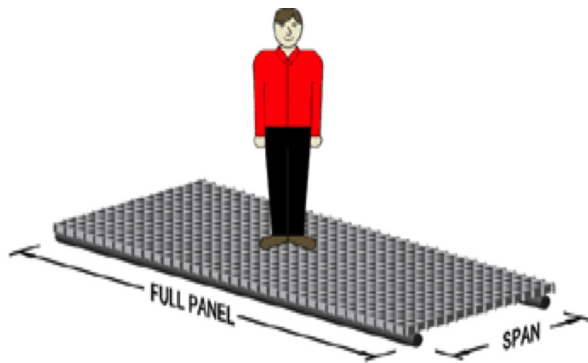
Span = Distance between two supports.

			Uniformed Load Capacity (kg/m ²)						
Type	Mesh Size	Grating Depth	300mm Span	450mm Span	600mm Span	750mm Span	900mm Span	1000mm Span	1200mm Span
FG02	100mm x 25mm (Rectangle)	25mm	10415 kg/m ²	2105 kg/m ²	747 kg/m ²	567 kg/m ²	415 kg/m ²	300 kg/m ²	175 kg/m ²
FG03	38mm x 38mm (Square)	25mm	5370 kg/m ²	1930 kg/m ²	710 kg/m ²	366 kg/m ²	195 kg/m ²	140 kg/m ²	105 kg/m ²
FG04	38mm x 38mm (Square)	38mm	23132 kg/m ²	6790 kg/m ²	2825 kg/m ²	1404 kg/m ²	859 kg/m ²	605 kg/m ²	390 kg/m ²
FG05	50mm x 50mm (Square)	50mm	48800 kg/m ²	15485 kg/m ²	6800 kg/m ²	3425 kg/m ²	2100 kg/m ²	1510 kg/m ²	850 kg/m ²
FG10	19mm x 19mm (Mini Square)	25mm	7286 kg/m ²	2228 kg/m ²	880 kg/m ²	445 kg/m ²	260 kg/m ²	195 kg/m ²	110 kg/m ²
FG11	19mm x 19mm (Square)	38mm	24643 kg/m ²	7130 kg/m ²	2966 kg/m ²	1475 kg/m ²	902 kg/m ²	636 kg/m ²	410 kg/m ²
FG12	20mm x 20mm (Square)	30mm	11854 kg/m ²	3507 kg/m ²	1475 kg/m ²	906 kg/m ²	447 kg/m ²	369 kg/m ²	215 kg/m ²
FG14	38mm x 38mm (Square)	60mm	119890 kg/m ²	38230 kg/m ²	16230 kg/m ²	8530 kg/m ²	4930 kg/m ²	3435 kg/m ²	2085 kg/m ²
FG24	83mm x 83mm (Square)	40mm	8823 kg/m ²	3058 kg/m ²	2105 kg/m ²	985 kg/m ²	539 kg/m ²	420 kg/m ²	208 kg/m ²

The load tables above show maximum clear spans for various loading example/requirements in accordance with BS 4592-2006. For pedestrian traffic, the deflection of a floor panel under the design load shall not exceed 10mm or 1/200 of the span whichever is the lesser. The difference in level between a loaded and a neighbouring un-loaded panel shall not exceed 4mm.

Please note these figures cannot be guaranteed as they were taken in a test environment and cannot factor in other operational conditions.

Concentrated Load Table - Deflection in (mm)



Span = Distance between two supports.

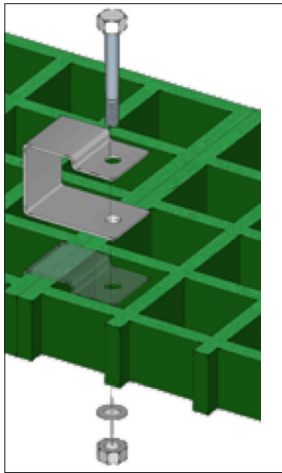
			Concentrated Load Capacity (kg)						
Type	Mesh Size	Grating Depth	300mm Span	450mm Span	600mm Span	750mm Span	900mm Span	1000mm Span	1200mm Span
FG02	100mm x 25mm (Rectangle)	25mm	734 kg	502 kg	376 kg	245 kg	192 kg	151 kg	114 kg
FG03	38mm x 38mm (Square)	25mm	642 kg	453 kg	318 kg	205 kg	180 kg	126 kg	92 kg
FG04	38mm x 38mm (Square)	38mm	1455 kg	1020 kg	725 kg	521 kg	430 kg	317 kg	275 kg
FG05	50mm x 50mm (Square)	50mm	3400 kg	1862 kg	1180 kg	803 kg	568 kg	460 kg	324 kg
FG10	19mm x 19mm (Mini Square)	25mm	674 kg	476 kg	334 kg	215 kg	189 kg	132 kg	97 kg
FG11	19mm x 19mm (Square)	38mm	1530 kg	1070 kg	762 kg	547 kg	455 kg	333 kg	290 kg
FG12	20mm x 20mm (Square)	30mm	856 kg	580 kg	448 kg	316 kg	213 kg	184 kg	143 kg
FG14	38mm x 38mm (Square)	60mm	7511 kg	4356 kg	2908 kg	2012 kg	1442 kg	1141 kg	829 kg
FG24	83mm x 83mm (Square)	40mm	849 kg	578 kg	441 kg	309 kg	205 kg	182 kg	139 kg

The load tables above show maximum clear spans for various loading example/requirements in accordance with BS 4592-2006. For pedestrian traffic, the deflection of a floor panel under the design load shall not exceed 10mm or 1/200 of the span whichever is the lesser. The difference in level between a loaded and a neighbouring un-loaded panel shall not exceed 4mm.

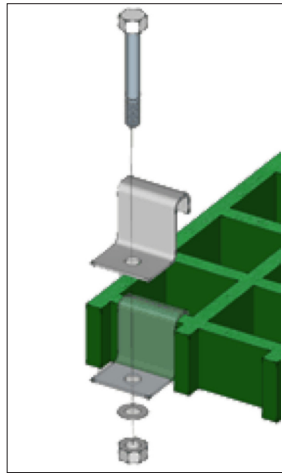
Please note these figures cannot be guaranteed as they were taken in a test environment and cannot factor in other operational conditions.



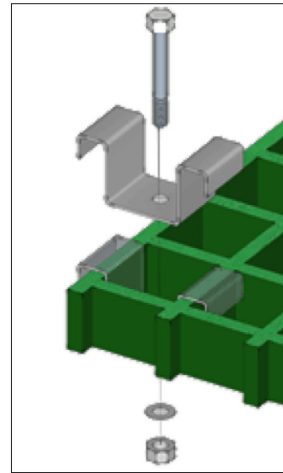
Fitting the Panels



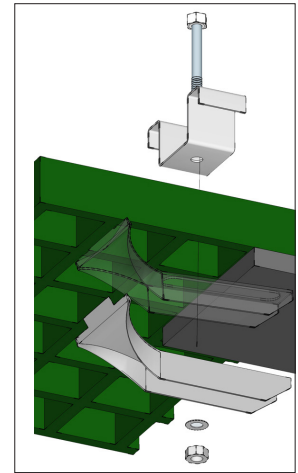
'C' Clip



'L' Clip



'M' Clip



'Birds Mouth' Clip

J Clamps

'C' Clips:

To be used to join panels together, spacing will be determined by panel thickness but assume one clip to be affixed every 500mm at an angle slot clip over the 2 load bars and twist so the clip is horizontal then screw in bolt to the threaded base of the clip and tighten.

'M' and 'L' Clips:

Set out where you will be positioning your grating clips, a guide would be in each corner and then every 500mm spaces. Push

the clips into the open mesh squares so that the clip sits neatly on the load bar(s) and the base of the clip is sitting close to the bottom of the grating panel. If you are fixing directly into the existing surface, pilot drill through the hole in the clip and into the substrate then fix using the appropriate screw and plug. If you are fixing into a support frame you will need to drill through the frame and then put through bolt fitting and tightening the washer and nut underneath the frame.

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