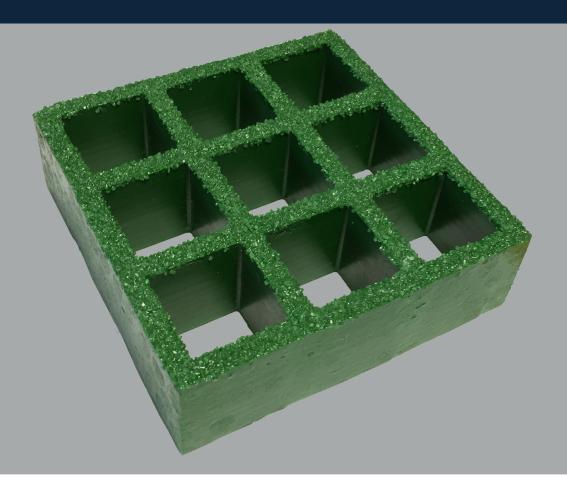


FibreGrid Standard GRP Grit Grating



Product Description

FibreGrid's Standard GRP Grit Top Grating is a high performance open mesh flooring system, made from high quality GRP (glass reinforced plastic). Our grating is produced by weaving continuous glass fibres vertically and horizontally into a mould, creating an integral, one-piece panel which offers excellent corrosion resistance as well as bidirectional strength.

Our grating is fire retardant, chemical and corrosion resistant, and with its 10 year guarantee makes it perfect for a variety of applications from vertical building risers and cooling towers, to walkways and railway crossing points.

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).

Southern Office: Unit 2, Civic Industrial Estate, Homefield Road Central, Haverhill, Suffolk, CB9 8QP Northern Office: Kingston House, 3 Walton Road, Pattinson North, Washington, Tyne & Wear, NE38 8QA









Characteristics

- Extremely durable
- Impact resistant
- Anti slip surface
- Fire retardant
- Chemical resistant
- Water resistant
- Lightweight
- Maintenance free
- Non-conductive

Suitable Applications

- Walkways
- Gullies
- Trenches
- Cooling towers
- Overhead gantries
- · Railway crossing points

F Technical Data

Description:	High performance composite grating system
Top finish:	Standard GRP Mesh grit top
Stock colours:	Green, Grey or Yellow (any RAL or BS colour subject to extended lead time)
Thickness:	25mm, 38mm and 50mm (Stocked. Other sizes are available given lead time)
Panel sizes:	See enclosed list
Mesh patterns:	See enclosed list
Chemical resistance:	Made from Iso resin as standard. Different chemical resistance available, please refer to the 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:	25+ years (subject to traffic analysis)
General use:	Standard pedestrian traffic
Standards: Fire:	Tested to BS 476: Part 7: 1997 Class 2

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Slip Resistance Values

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

Top SurfaceDry ReadingWet ReadingStandard GRP Grit Top6965

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 resistance levels are maintained, the panels should be kept clean.

Fabrication Tips

A major advantage of FibreGrid GRP Grating is the ease of fabrication — sawing, grinding, drilling and machining is similar to working with wood, metals and plastics.

If possible, perform fabrication "on-site" to increase accuracy. Be sure to allow for saw kerf (usually 4-6mm) when performing takeoffs and layouts. For a nice looking installation, cut panels so bars of adjoining panels are aligned and leave a solid bar on all sides.

Provide a minimum of 38mm support around all edges.

Use M-Clips spaced a maximum of every 1220mm, with a minimum of four clips per panel.

Support panel securely so it will not flex or shift during cutting.

Mark cuts clearly and carefully. Avoid splitting 6.4mm and 8mm bars. Moulded construction allows "stubs" to support weight.

Cut from the smooth side (bottom) of a grit top panel. Use even, steady pressure when cutting. Excessive pressure may cause heat and/or ragged edges. Replace dull blades to prevent heat buildup.

For best results, sand all cut edges with open-grit sandpaper using light, even pressure to prevent wavy, uneven surfaces.

Cut edges are to be sealed using a polyurethane yacht varnish. This is to prevent corrosive chemicals from reaching exposed glass fibres.

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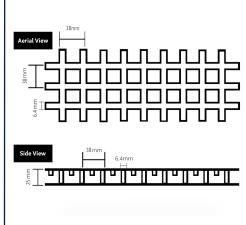




Grating Specification/Types and Load Table - Deflection In mm

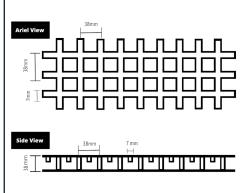
FG03SD	
Grating Name	FG03SD
Grid Size	38x38 SM
Panel Depth	25
Load Bar Thickness	6.4
Load Bar Centers	38
No. Bars per foot	8
Open Area	70%
Approx. Weight	12kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220 3016 x 996 1988 x 996





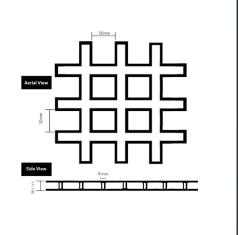
FG04SD	
Grating Name	FG04SD
Grid Size	38x38 SM
Panel Depth	38
Load Bar Thickness	7
Load Bar Centers	38
No. Bars per foot	8
Open Area	68%
Approx. Weight	19.5kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220 3016 x 996 1988 x 996





FG05SD	
Grating Name	FG05SD
Grid Size	50x50 SM
Panel Depth	50
Load Bar Thickness	8
Load Bar Centers	50
No. Bars per foot	8
Open Area	71%
Approx. Weight	23.51kg's/sq.m
Panel Sizes Available (mm)	3660 x 1220





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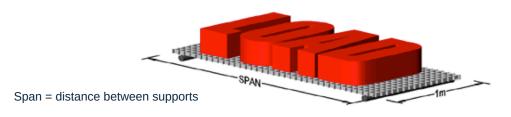








Uniform Load



Moulded Grating Uniform Load Tables - Deflection In Millimetres																		
Clear	Clear Style				Load (kN/m²)											Max Recommended		
Span (mm)	Name	Depth (mm)	Mesh (mm x mm)	3.0	5.0	8.0	10.0	13.0	15.0	20.0	25.0	39.0	50.0	60.0	70.0	80.0	90.0	Load (kN/m²)
	FG03SD	25	38 x 38	0.4	0.7	1.1	1.3	1.7	2.0	2.6	3.3	5.1	6.6	7.9	9.2	10.5	11.8	48
400	FG04SD	38	38 x 38	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.2	1.8	2.3	2.8	3.3	3.7	4.2	100
	FG05SD	50	50 x 50	0.1	0.1	0.2	0.3	0.4	0.4	0.6	0.7	1.1	1.4	1.7	2.0	2.3	2.6	154
	FG03SD	25	38 x 38	1.8	3.0	4.8	6.0	7.8	9.0	12.0	15.0	-	-	-	-	-	-	20
600	FG04SD	38	38 x 38	0.6	1.0	1.6	2.0	2.6	3.0	3.9	4.9	7.7	9.9	11.8	13.8	15.8	-	45
	FG05SD	50	50 x 50	0.3	0.6	0.9	1.1	1.5	1.7	2.3	2.8	4.4	5.7	6.8	8.0	9.1	10.2	73
	FG03SD	25	38 x 38	5.7	9.5	15.1	-	-	-	-	-	-	-	-	-	-	-	9
800	FG04SD	38	38 x 38	1.8	3.0	4.7	5.9	7.7	8.9	11.8	14.8	-	-	-	-	-	-	26
	FG05SD	50	50 x 50	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.3	1.6	2.0	2.3	2.6	2.9	35
	FG03SD	25	38 x 38	13.9	-	-	-	-	-	-	-	-	-	-	-	-	-	5
1000	FG04SD	38	38 x 38	4.3	7.1	11.4	14.3	-	-	-	-	-	-	-	-	-	-	14
	FG05SD	50	50 x 50	2.3	3.8	6.1	7.7	9.9	11.5	15.3	-	-	-	-	-	-	-	21
1200	FG04SD	38	38 x 38	8.9	14.8	-	-	-	-	-	-	-	-	-	-	-	-	9
1200	FG05SD	50	50 x 50	4.7	7.8	12.5	15.6			-	_	-	-	-	_	-	-	14
1400	FG05SD	50	50 x 50	8.5	14.2	-	-	-	-	-	-	-	-	-	-	-	-	8

(1 kilonewton is equal to 101.97 kilograms)

NOTES:

- 1. All gratings were tested in accordance with BS4592-0:2006. For pedestrian traffic, the deflection of a floor panel under the design load shall not exceed 10mm or 1/200th of the span, whichever is the lesser. The difference in level between a loaded and a neighbouring unloaded flooring shall not exceed 4mm.
- 2. The designer should not exceed Maximum Recommended Load at any time.
- 3. For covered grating use a multiplier of 0.5. This is limited to gratings of 25mm 51mm depths.
- 4. Max recommended and ultimate loads do not change as a result of adding a 3mm deep covered plate.
- 5. Load tables are for reference only. FibreGrid are not responsible for the use of these tables, and cannot warrant the performance of grating through the use of these tables. Load tables are set at ambient temperatures. For applications at elevated temperatures, or for further information, please call 01440 712722 for assistance.

Southern Office: Unit 2, Civic Industrial Estate, Homefield Road Central, Haverhill, Suffolk, CB9 8QP Northern Office: Kingston House, 3 Walton Road, Pattinson North, Washington, Tyne & Wear, NE38 8QA









Point Load Table

	Deflecti	on In M	lillimetre	es								
Clear Span Style				Point Load (kN)								
(mm)	Name	Mesh (mm x mm)	Depth (mm)	1.5	3.5	5	7.5	10	15	25	30	
	FG03	38x38	25	-	0.44	0.60	1.04	1.43	1.82	2.84	3.56	
300	FG04	38x38	38	-	0.32	0.39	0.72	0.93	1.21	1.89	2.32	
300	FG05	50x50	50	-	0.41	0.52	0.79	1.11	1.51	2.44	2.93	
	FG02	25x100	25	0.32	0.72	0.96	1.47	2.10	2.86	4.70	-	
	FG03	38x38	25	0.27	0.67	0.88	1.54	2.05	2.65	4.21	5.21	
450	FG04	38x38	38	-	0.40	0.56	1.01	1.34	1.74	2.76	3.42	
450	FG05	50x50	50	0.27	0.59	0.71	1.12	1.62	2.19	3.60	4.32	
	FG02	25x100	25	0.45	1.13	1.42	2.23	3.23	4.35	-	-	
	FG03	38x38	25	0.77	1.58	2.08	3.15	4.50	6.12	-	-	
600	FG04	38x38	38	0.52	1.05	1.36	2.06	2.93	4.08	6.74	-	
600	FG05	50x50	50	0.42	0.85	1.11	1.72	2.45	3.29	5.39	6.45	
	FG02	25x100	25	0.66	1.60	2.10	3.30	4.77	6.39	-	-	
	FG03	38x38	25	1.27	2.95	3.76	6.04	8.80	-	-	-	
750	FG04	38x38	38	0.85	1.96	2.56	3.96	5.79	7.80	-	-	
750	FG05	50x50	50	0.67	1.59	2.05	3.12	4.62	6.37	9.92	-	
	FG02	25x100	25	1.34	3.13	3.92	6.23	9.23	-	-	-	
	FG03	38x38	25	1.75	4.30	5.50	8.79	13.12	-	-	-	
900	FG04	38x38	38	1.19	2.89	3.69	5.89	8.63	11.72	-	-	
900	FG05	50x50	50	0.92	2.38	2.98	4.73	6.99	10.17	-	-	
	FG02	25x100	25	1.92	4.60	5.88	9.30	-	-	-	-	
	FG03	38x38	25	2.90	7.40	10.34	15.19	-	-	-	-	
1200	FG04	38x38	38	1.90	4.83	6.87	9.96	14.79	-	-	-	
1200	FG05	50x50	50	1.63	3.98	5.59	8.09	10.78	15.59	-	-	
	FG02	25x100	25	3.13	7.79	10.92	15.85	-	-	-	-	

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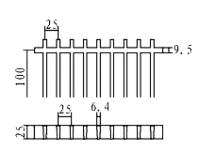




Grating Specification/Types

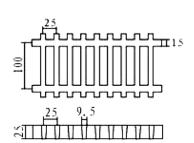
FG01	
Grating Name	FG01
Grid Size	25x100 RM
Panel Depth	25
Load Bar Thickness	6.4
Load Bar Centers	25
No. Bars per foot	12
Open Area	67%
Approx. Weight	13.9kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220 2440 x 1220 3050 x 915





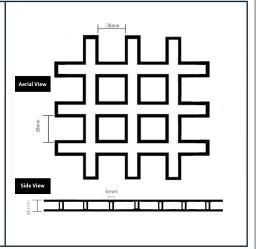
FG02	
Grating Name	FG02
Grid Size	25x100 RM
Panel Depth	25
Load Bar Thickness	9.5
Load Bar Centers	25
No. Bars per foot	12
Open Area	52%
Approx. Weight	19.3kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220 2440 x 1220 3050 x 915





FG06	
Grating Name	FG06
Grid Size	38x38 SM
Panel Depth	13
Load Bar Thickness	6
Load Bar Centers	38
No. Bars per foot	8
Open Area	78%
Approx. Weight	6kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220 3016 x 996 3050 x 915





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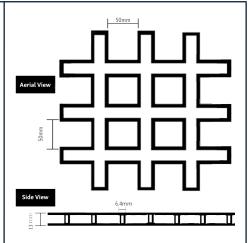






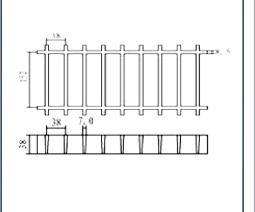
FG07	
Grating Name	FG07
Grid Size	50x50 SM
Panel Depth	13
Load Bar Thickness	6.4
Load Bar Centers	50
No. Bars per foot	6
Open Area	82%
Approx. Weight	5.77kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220 2440 x 1220 3050 x 915





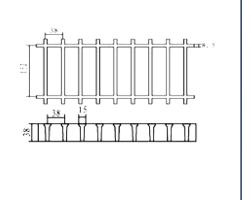
FG08	
Grating Name	FG08
Grid Size	38x152 RM
Panel Depth	38
Load Bar Thickness	7
Load Bar Centers	38
No. Bars per foot	8
Open Area	67%
Approx. Weight	15.93kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220





FG09	
Grating Name	FG09
Grid Size	38x152 RM
Panel Depth	38
Load Bar Thickness	15
Load Bar Centers	38
No. Bars per foot	8
Open Area	67%
Approx. Weight	18.62kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220







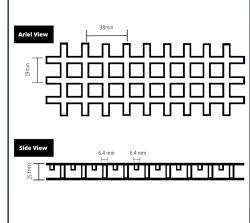




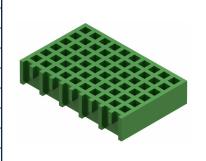


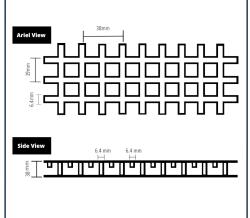
FG10	
Grating Name	FG10
Grid Size	19x19 SM
Panel Depth	25
Load Bar Thickness	6.4
Load Bar Centers	19
No. Bars per foot	16
Open Area	42%
Approx. Weight	16.81kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	4000 x 1220 3660 x 1220 2440 x 1220 3050 x 915





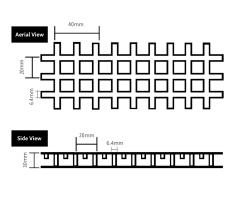
-644	
FG11	
Grating Name	FG11
Grid Size	19x19 SM
Panel Depth	38
Load Bar Thickness	6.4
Load Bar Centers	19
No. Bars per foot	16
Open Area	42%
Approx. Weight	23.51kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	4000 x 1220 3660 x 1220 2440 x 1220 3050 x 915





FG12	
Grating Name	FG12
Grid Size	20x20 SM
Panel Depth	30
Load Bar Thickness	6.4
Load Bar Centers	20
No. Bars per foot	16
Open Area	42%
Approx. Weight	18.03kg's/sq.m
Panel Sizes Available (mm) (Stocked)	3007 x 1007







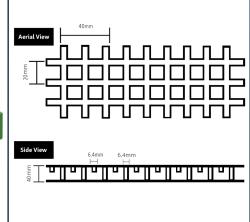




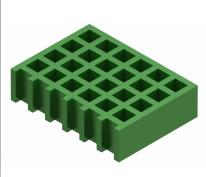


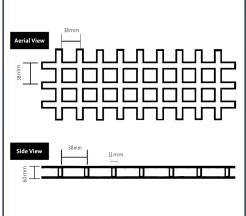
FG13	
Grating Name	FG13
Grid Size	20x20 SM
Panel Depth	40
Load Bar Thickness	6.4
Load Bar Centers	20
No. Bars per foot	16
Open Area	42%
Approx. Weight	23.7kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	4007 x 1007 3007 x 1007



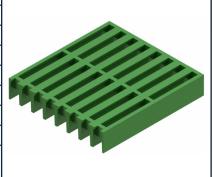


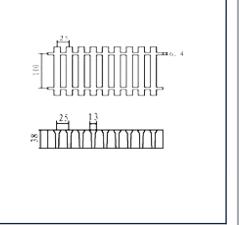
FG14	
Grating Name	FG14
Grid Size	38x38 SM
Panel Depth	60
Load Bar Thickness	11
Load Bar Centers	38
No. Bars per foot	8
Open Area	58%
Approx. Weight	50.43kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	4000 x 1220 3660 x 1220 2440 x 1220 3050 x 915





FG15	
Grating Name	FG15
Grid Size	25x100 RM
Panel Depth	38
Load Bar Thickness	6.4
Load Bar Centers	25
No. Bars per foot	12
Open Area	46%
Approx. Weight	21.01kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220







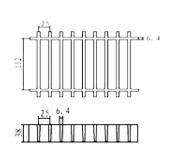






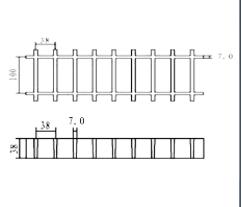
FG16	
Grating Name	FG16
Grid Size	25x152 RM
Panel Depth	38
Load Bar Thickness	6.4
Load Bar Centers	25
No. Bars per foot	12
Open Area	56%
Approx. Weight	23.02kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3050 x 565



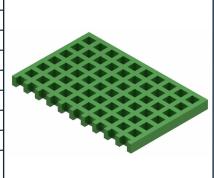


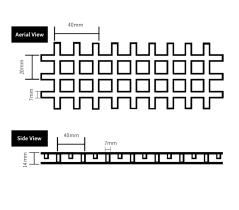
FG17	
Grating Name	FG17
Grid Size	38x100 RM
Panel Depth	38
Load Bar Thickness	7
Load Bar Centers	38
No. Bars per foot	8
Open Area	62%
Approx. Weight	15.2kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220





FG18	
Grating Name	FG18
Grid Size	20x20 SM
Panel Depth	14
Load Bar Thickness	7
Load Bar Centers	20
No. Bars per foot	16
Open Area	42%
Approx. Weight	10kg's/sq.m
Panel Sizes Available (mm) (Stocked)	4007 x 1007 4047 x 1247







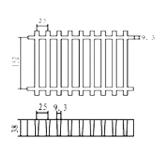






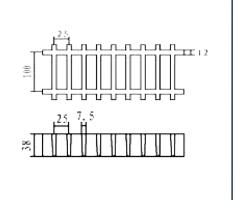
FG19	
Grating Name	FG19
Grid Size	25x152 RM
Panel Depth	38
Load Bar Thickness	9.3
Load Bar Centers	25
No. Bars per foot	12
Open Area	56%
Approx. Weight	22.43kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220 2440 x 1220 3050 x 915





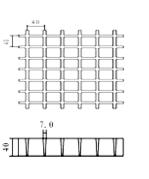
FG20	
Grating Name	FG20
Grid Size	25x100 RM
Panel Depth	38
Load Bar Thickness	7.5
Load Bar Centers	25
No. Bars per foot	12
Open Area	68%
Approx. Weight	22.43kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3660 x 1220 2440 x 1220 3050 x 915





FG21	
Grating Name	FG21
Grid Size	40x40 SM
Panel Depth	40
Load Bar Thickness	7
Load Bar Centers	40
Open Area	67%
Approx. Weight	19.2kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3007 x 1007







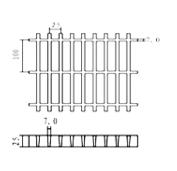






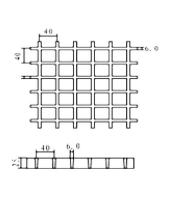
FG22	
Grating Name	FG22
Grid Size	25x100 RM
Panel Depth	25
Load Bar Thickness	7
Load Bar Centers	40
Open Area	67%
Approx. Weight	19.2kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3007 x 1007





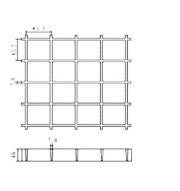
FG23	
Grating Name	FG23
Grid Size	40x40 SM
Panel Depth	25
Load Bar Thickness	7
Load Bar Centers	40
Open Area	67%
Approx. Weight	12kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3007 x 1007





FG24	
Grating Name	FG24
Grid Size	83.3x83.3 SM
Panel Depth	40
Load Bar Thickness	7
Load Bar Centers	83.3
Open Area	83%
Approx. Weight	9.5kg's/sq.m
Panel Sizes (mm) (Lead time 12 weeks)	3007 x 1007













Chemical Resistances Table

Chemical	Iso Concentration (%)	Temp F/°C
Acetic Acid	50	125/52
Ammonium Hydroxide	100	160/71
Ammonium Chloride	All	170/77
Ammonium Bicarbonate	15	125/52
Ammonium Hydroxide	28	N/R
Ammonium Sulfate	All	170/77
Benzene	All	N/R
Benzoic Acid	SAT	150/66
Borax	SAT	170/77
Calcium Carbonate	All	170/77
Calcium Nitrate	All	180/82
Carbon Tetrachloride	1000	N/R
Chlorine Water	SAT	80/27
Citric Acid	All	170/77
Copper Chloride	All	170/77
Copper Cyanide	All	170/77
Copper Nitrate	All	170/77
Ferric Chloride	All	170/77
Ferrous Chloride	All	170/77
Formaldehyde	50	75/24
Gasoline	100	80/27
Glucose	100	170/77
Glycerin	100	150/66
Lithium Chloride	SAT	150/66
Magnesium Chloride	All	170/66
Magnesium Nitrate	All	140/60
Magnesium Sulfate	All	170/77
Mercuric Chloride	100	150/66
Mercurous Chloride	All	140/50
Nickel Chloride	All	170/77
Nickel Sulfate	All	170/77
Nitric Acid	20	70/21
Oxalic Acid	All	75/24
Potassium Chloride	All	170/77
Potassium Dichromate	All	170/77

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Potassium Nitrate	All	170/77
Potassium Sulfate	All	170/77
Propylene Glycol	All	170/77
Sodium Cyanide	All	170/77
Sodium Nitrate	All	170/77
Sodium Chloride	All	160/71
Vinegar	100	170/77
Zinc Nitrate	All	170/77

All = All Concentrations

N/R = Not Recommended

SAT = Saturated Solution

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.

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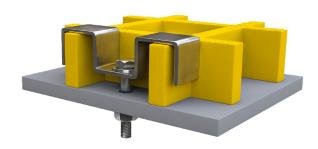






FibreGrid Grating Clips





Grating	Open Mesh	Pultruded
Depth	25mm / 38mm / 50mm	25mm / 38mm

- · Direct fixing to support underneath
- M8 Bolt (length to suit grating depth
- Bolt recessed to prevent trip hazard
- Compatible with numerous bolt and screw types
- Stainless steel 316





Grating	Open Mesh
Depth	25mm / 38mm

- · Direct fixing to support underneath
- M6 Bolt (length to suit grating depth
- Bolt sunken to prevent trip hazard
- Compatible with numerous bolt and screw types
- Stainless steel 316

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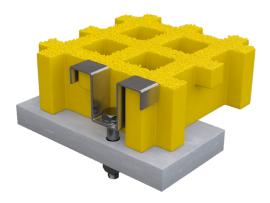








F TwinGrid (Mini Mesh) M Clip



Grating	TwinGrid / Mini Mesh
Depth	14mm / 30mm / 38mm

- Direct fixing to support underneath
- · M6 Bolt (length to suit grating depth
- Bolt sunken to prevent trip hazard
- Compatible with numerous bolt and screw types
- Stainless steel 316





Grating	Open Mesh
Depth	25mm / 38mm / 50mm

- · For joining bound edges of 2 panels together
- M6 Bolt with socket head
- Nut fixed in place for easy installation
- Stainless steel 316

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J Clamp

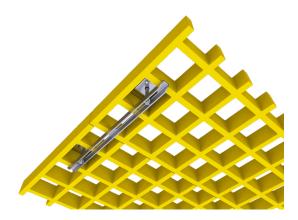
Grating	Open Mesh	TwinGrid / Mini Mesh	Solid Top	Pultruded
Depth	25mm / 38mm / 50mm	14mm / 30mm / 38mm	28mm / 41mm / 54mm	25mm / 38mm / 50mm



- For clamping to the underside of supports
- Used where direct fixing through supports are not permitted
- Can be used with most grating top clips
- Does not require tightening from underneath
- M8 & M6 bolt compatible (hex nuts required)
- Stainless steel 316

Channel Clamp

Grating	Open Mesh	TwinGrid / Mini Mesh	Solid Top	Pultruded
Depth	25mm / 38mm / 50mm	14mm / 30mm / 38mm	28mm / 41mm / 54mm	25mm / 38mm / 50mm



- For joining panels together without 2 bound edges
- Can be used with most grating top clips
- 2 of each clip required
- M8 Bolt (length to suit depth of grating)
- Does not require tightening from underneath
- Stainless steel 316

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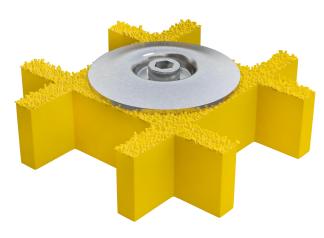








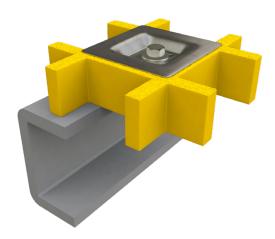
Grating Disc



Grating	Open Mesh	Pultruded
Depth	25mm / 38mm	25mm / 38mm / 50mm

- Direct fixing to support underneath
- M6 Bolt (length to suit grating depth
- · Bolt sunken to prevent trip hazard
- · Compatible with numerous bolt and screw types
- Stainless steel 316

Square Recessed Clip



Grating	Open Mesh
Depth	25mm / 38mm / 50mm

- Direct fixing to support underneath
- M8 Bolt (length to suit grating depth
- · Bolt recessed to prevent trip hazard
- Compatible with numerous bolt and screw types
- Stainless steel 316

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Dome Fixing (WLP)



Grating	TwinGrid / Mini Mesh	Solid Top
Depth	14mm / 30mm / 38mm	28mm / 41mm / 54mm

- Direct fixing to support underneath
- M6 Bolt (length to suit grating depth
- Bolt recessed to prevent trip hazard
- Compatible with numerous bolt and screw types
- Stainless steel 316 or Zinc

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