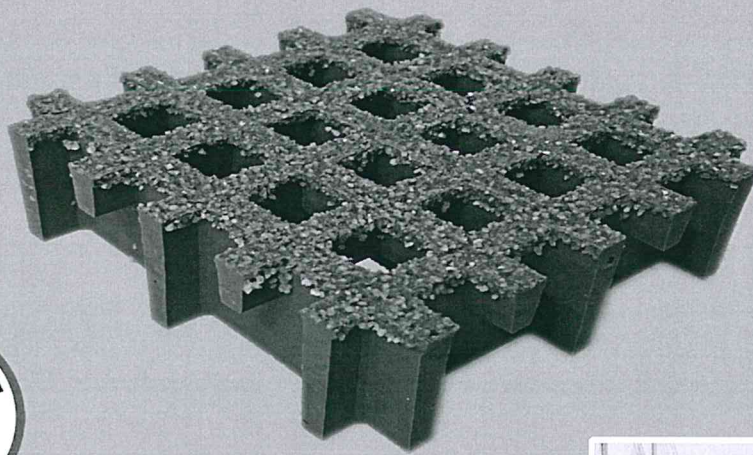


Mini Mesh Grating



Product Description

Earthmet 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 Mini Mesh 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.

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



Technical Data

Description:	High performance composite grating system
Top finish:	Heavy Duty Embedded Grit, concave top, plain top, embedded grit and covered top
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:	10+ 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:	Earthmet grating fully complies with BS 4592-6:2008 (Industrial GRP Flooring)



Grating Slip Resistant Values

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

Top Surface	Dry Reading	Wet Reading
Medium grit	72	67
Grit top	70	65
Concave Grit	75	75
Plain top	62	57
Covered top	108	65

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

35 to 65	Low
25 to 35	Moderate
25 and Below	High



Cleaning Guide and Tips

Whilst Mini Mesh 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 the Mini Mesh has been subjected to spillages or the dirt has become embedded, detergents such as Grezoff or similar can be used. It is always advisable to test any cleaning product on Mini Mesh 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, Mini Mesh can be power washed without causing harm. General

Routine Maintenance

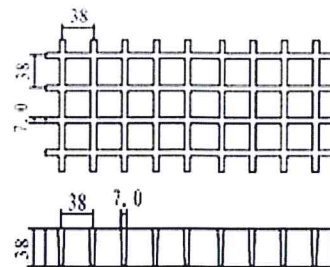
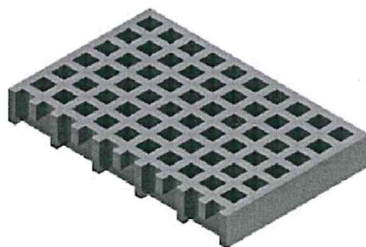
The security of the fixings/adhesive should be checked on a regular basis. Circumstances will vary, based upon the volume of foot traffic etc., as a guide, monthly inspections would be advisable.



Grating Specification/Types

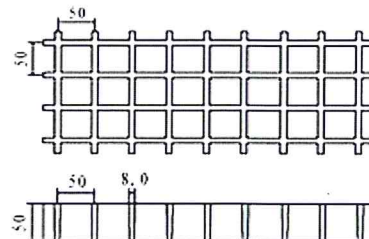
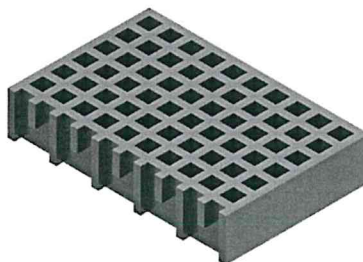
FG10

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	4000 x 1220, 3660 x 1220
Available (mm)	2440 x 1220, 3050 x 915,



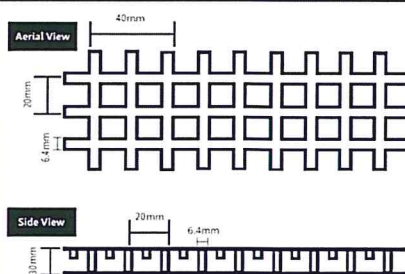
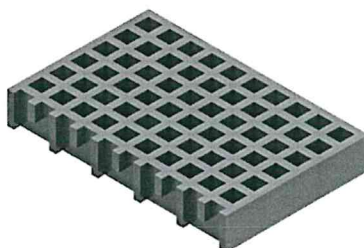
FG11

Grating Name	FG11
Grid Pattern	38x19 TGSM
Load Bar Thickness	6.4
Load Bar Centres	19
No. Bars per foot	16
Open Area	42%
Approx. Weight	23.51 kg's/sq.m
Panel Sizes	4000 x 1220, 3660 x 1220
Available (mm)	1220, 2440 x 1220, 3050 x 915



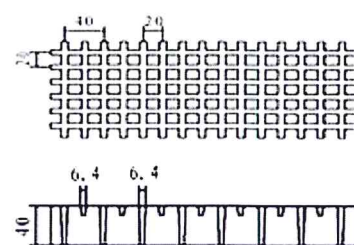
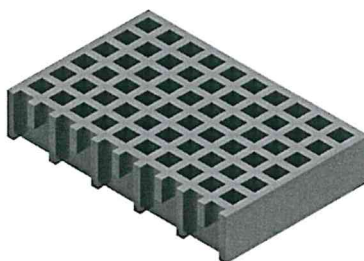
FG12

Grating Name	FG12
Grid Pattern	30x20 TGSM
Load Bar Thickness	6.4
Load Bar Centres	20
No. Bars per foot	16
Open Area	42%
Approx. Weight	18.03 kg's/sq.m
Panel Sizes	4000 x 1007, 3007 x 1007,



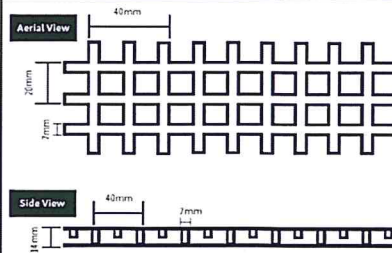
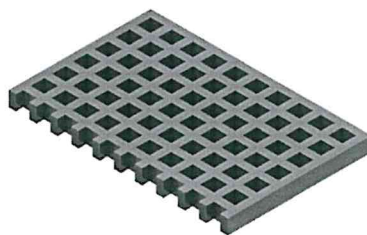
FG13

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	4000 x 1007, 3007 x 1007,



FG18

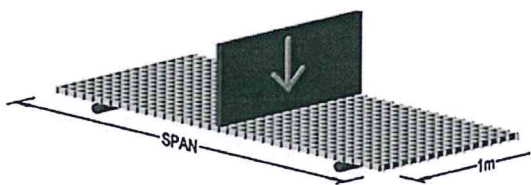
Grating Name	FG18
Grid Pattern	14x20 SM
Load Bar Thickness	7
Load Bar Centres	20
No. Bars per foot	16
Open Area	42%
Approx. Weight	10 kg's/sq.m
Panel Sizes	4047 x 1247, 4047 x 1007



	%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



Concentrated Line Load Table - Deflection in (mm)



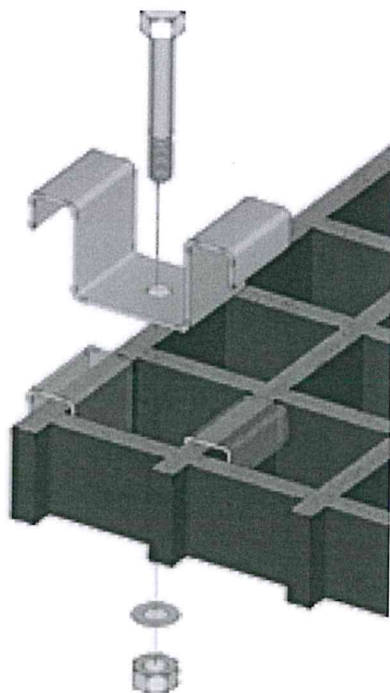
SPAN (mm)	STYLE	LOAD In KGS/M OF WIDTH						Break Point
		75	149	298	447	596	745	
305	FG11 (38mm thick x19TGSM)	0.33	0.686	1.346	2.057	2.692		
	FG12 (30mm thick x38x20TGSM)	0.051	0.102	0.229	0.381		0.635	
457	FG11 (38mm thick x19TGSM)	0.737	1.473	2.946	4.42	5.893		
	FG12 (30mm thick x38x20TGSM)	0.178	0.381	0.737	1.168		1.829	
610	FG11 (38mm thick x19TGSM)	0.864	1.702	3.404	5.105	6.807		
	FG12 (30mm thick x38x20TGSM)	0.381	0.813	1.651	2.388		3.861	
762	FG11 (38mm thick x19TGSM)	1.068	2.134	4.267	6.401	8.534		
	FG12 (30mm thick x38x20TGSM)	0.66	1.346	2.692	4.013		6.691	
914	FG11 (38mm thick x19TGSM)	1.422	2.845	5.689	8.534			
	FG12 (30mm thick x38x20TGSM)	1.067	2.108	4.166	6.401		10.719	
1067	FG11 (38mm thick x19TGSM)	1.88	3.759	7.518	11.278			
	FG12 (30mm thick x38x20TGSM)	1.473	2.997	6.071	9.093			

SPAN (mm)	STYLE	LOAD In KGS/SQUARE METER							
		244	489	977	1466	1955	2444	3665	4887
762	FG11 (38mm thick x19TGSM)	1.676	3.353	6.706	10.058	13.411			
	FG12 (30mm thick x38x20TGSM)	0.991	1.981	3.962	5.944		9.855		
914	FG11 (38mm thick x19TGSM)	2.667	5.359	10.693	16.027				
	FG12 (30mm thick x38x20TGSM)	1.803	3.632	7.239	10.871				
1067	FG11 (38mm thick x19TGSM)	4.089	8.179	16.358					
	FG12 (30mm thick x38x20TGSM)	6.604	6.401	12.827					
1219	FG11 (38mm thick x19TGSM)	6.274	12.548						
	FG12 (30mm thick x38x20TGSM)	5.283	10.439						
1524	FG11 (38mm thick x19TGSM)								
	FG12 (30mm thick x38x20TGSM)								

- 1, RM=Rectangular Mesh
- 2, TGSM= TwinGrid Square Mesh
- 3, SM= Square Mesh
- 4, RMS= Rectangular Mesh Standard
- 5, RMH= Rectangular Mesh Heavy duty



Fitting the Panels



'M' Clip

'M' 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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