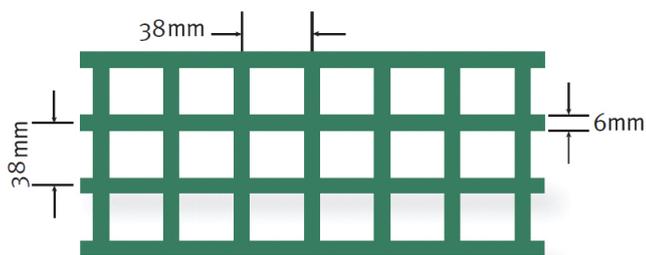


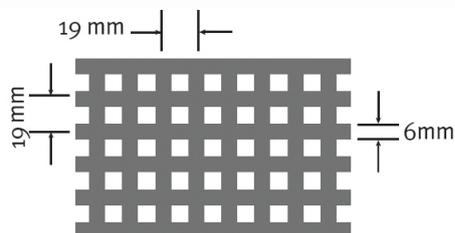
# FRP Grating

## Patterns:

### Standard Mesh



### Mini Mesh



\*NB. Mini Mesh is only available in 38mm deep bars

\* Aperture is 12x 12mm

## Features / Benefits

- Integral, one piece construction increases load-bearing capabilities
- Load applied to Webforge FRP bar is transferred to adjoining bearing bars, assisting in load distribution on the grating as well as on the support structure.
- Smooth resin-rich vertical surfaces and tapered bars allow all debris to fall through
- Continuous glass fibre strand in alternating layers thoroughly wetted with the appropriate resin for excellent corrosion resistance.

## Material:

- Isophthalic Polyester Resin (I) ASTM E-84 Fire Rating Class A, 25 or less
- Vinyl Ester Rein (V) ASTM E-84 Fire Rating Class A, 25 or less

## Top Surface:

FRP grating is provided with an antiskid Grit (G) surface as standard. This is a coarse grit that is embedded into the top surface of the grating. A plain top surface is available on request.

## Treatment/Colour:

- Green (G) – Isophthalic Polyester Resin or
- Yellow (Y) – Vinyl Ester Resin
- Dark Grey (D) – Mini Mesh only
- Others colours available on request

## Panel Size:

The standard range of panel size is shown below:

Code	Panel Size
1	1220 x 3660

## FRP Grating



## FRP Load Table

Product	Load Bar Size mm	Loadbar Spacing mm	Mass kg/m <sup>2</sup>	4kPa 5mm Defl Span	U (kPa)	D (mm)	SPAN mm				
							450	600	750	900	1200
G256	6 x 25	38	12.1	785	U	15	10	4	2.5	2.5	
					D	1.6	4.1	4.1	5.1	15.3	
G386	6 x 38	38	18.6	990	U	15	15	10	5	2.5	
					D	1.0	2.4	3.7	3.8	5.9	
G38619	6 x 38	19	23.1	1035	U	15	15	10	7.5	2.5	
					D	1.0	2.4	3.6	4.7	4.8	

U = Uniformly Distributed Load in kPa  
D = Deflection in mm

## Webforge FRP Grating - Chemical Resistance Table

CHEMICAL ENVIRONMENT	% Concentration	°C TEMP	Vinyl Ester	Isophthalic
Acetic Acid	25	MAX	C	C
Acetic Acid	50	MAX	C	C
Aluminum Hydroxide	ALL	MAX	C	C
Ammonium Chloride	ALL	48.8	C	C
Ammonium Bicarbonate	15	48.8	C	C
Ammonium Bicarbonate	50	48.8	C	C
Ammonium Hydroxide	20	26.6	S	N
Ammonium Sulfate	ALL	48.8	C	C
Benzene	100	65.5	I	I
Benzoic Acid (SAT)	SAT	MAX	C	C
Borax (SAT)	SAT	MAX	C	C
Calcium Carbonate	ALL	MAX	C	C
Calcium Nitrate	ALL	MAX	C	C
Carbon Tetrachloride	100	26.6	I	N
Chlorine, Dry Gas *	ALL	MAX	C	C
Chlorine Water (SAT)	SAT	48.8	C	I
Chromic Acid	50	65.5	I	N
Citric Acid	ALL	MAX	C	C
Copper Chloride	ALL	MAX	C	C
Copper Cyanide	ALL	60	C	S
Copper Nitrate	ALL	MAX	C	C
Ethanol	10	48.8	C	S
Ethanol	50	48.8	C	I
Ethylene Glycol	ALL	65.5	C	C
Ferric Chloride	100	MAX	C	C
Ferrous Chloride	ALL	MAX	C	C
Formaldehyde 0-50%	50	48.8	S	I
Gasoline	ALL	48.8	C	C
Glucose	ALL	48.8	C	C
Glycerin	100	MAX	C	C
Hydrobromic Acid	50	MAX	S	S
Hydrochloric Acid	10	MAX	C	S
Hydrochloric Acid	37	MAX	I	S
Hydrogen Peroxide	30	26.6	C	N
Lactic Acid	100	MAX	C	C
Lithium Chloride (SAT)	SAT	MAX	N	N
Magnesium Chloride	ALL	MAX	C	C
Magnesium Nitrate	ALL	MAX	C	C
Magnesium Sulfate	ALL	MAX	C	C
Mercuric Chloride	ALL	MAX	C	C
Mercurous Chloride	ALL	MAX	C	C
Nickel Chloride	ALL	MAX	C	C
Nickel Sulfate	ALL	MAX	C	C
Nitric Acid	20	48.8	S	S
Oxalic Acid	ALL	65.5	C	C
Perchloric Acid	30	32.2	S	I
Phosphoric Acid	80	MAX	C	C
Potassium Chloride	ALL	MAX	C	C
Potassium Dichromate	ALL	MAX	C	C
Potassium Nitrate	ALL	MAX	C	C
Potassium Sulfate	ALL	MAX	C	C
Propylene Glycol	ALL	MAX	C	C
Sodium Acetate	ALL	MAX	C	C
Sodium Bisulfate	ALL	26.6	S	S
Sodium Bromide	ALL	26.6	C	C
Sodium Cyanide	ALL	26.6	C	I
Sodium Hydroxide	10	MAX	C	I
Sodium Hydroxide	50	MAX	S	N
Sodium Nitrate	ALL	MAX	C	C
Sodium Sulfate	ALL	MAX	C	C
Sulfuric Acid	10	MAX	C	S
Sulfuric Acid	25	MAX	C	S
Sulfuric Acid	75	37.7	C	I
Tartaric Acid	ALL	MAX	C	C
Vinegar	ALL	MAX	C	C
Water, Distilled	ALL	MAX	C	C
Zinc Nitrite	100	MAX	C	C
Zinc Sulfate	100	MAX	C	C

C = Continuous exposure of the grating to the Chemical Environment listed at the temperature listed

S = Frequent exposure of the grating to splashes and spills the Chemical Environment listed with that environment at the temperature listed

I = Infrequent Exposure of the grating to splashes and spills from the Chemical Environment listed with that environment at the temperature listed and the spill immediately cleaned up or washed from the grating .

N = Not recommended for the concentrations and temperatures listed

T =Test

MAX = indicates temperature of 85°C for molded Vinyl Ester . 71°C for moulded Isophthalic grating.

ALL = All concentrations

SAT = Saturated solution