

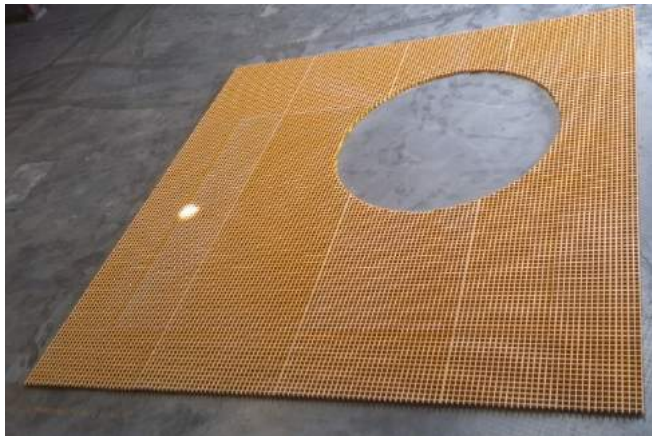
## FIBREGLASS GRATING

For the ultimate in unmatched corrosion resistance with strength, long-life and safety, Composite Engineering's fibreglass grating is proven to deliver years of reliable service, even in demanding corrosive environments. Where conventional metallic and wooden products and structures deteriorate rapidly, Composite Engineering moulded fibreglass grating will last longer than any other material. Our grating is also both lightweight, and simple to fabricate, whether in the factory or on site.

Enjoy peace of mind with no ongoing maintenance required.

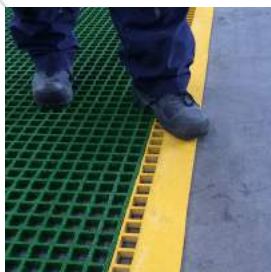


Combining installation savings on labour and equipment with additional reductions with low maintenance, long service life and worker safety, our fibreglass moulded grating offers a life-cycle cost that is considerably lower than those of traditional materials.

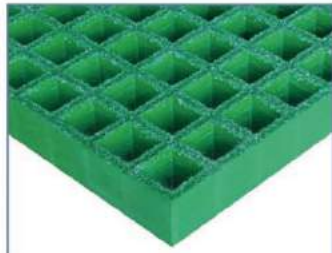


Our standard colour range covers safety yellow, green, charcoal and light grey. The surface treatment options include anti-slip grits from coarse to extra-fine, as well as meniscus and sanded finishes. Composite Engineering moulded gratings carry a flame-spread index (rating) of 25 or less when tested in accordance with the ASTM E-84 standard, while also meeting the ASTM D-635 extinguishing requirements.

Composite Engineering can supply full sized panels, or fabricate to any shape and size to suit your application. We maximise material usage through CAD design and nesting techniques, with thicknesses in stock ranging from 12mm to 51mm, and carried in both Isophthalic (Polyester) and Vinyl Ester resin systems.



# FIBREGLASS GRATING



Post-Cure Grit



Gritted Solid Top

38 x 38

Photo	Height (mm)	Bearing Bar Thickness (Top/Bottom)	Mesh Size (mm)	Panel Size (mm)	Approx. Weight (kgs/m <sup>2</sup> )	Open Area (%)
	13	6.0/5.0	38.1 x 38.1	1220 x 4000	6	68%
				1220 x 3660		
	15	6.1/5.0	38.1 x 38.1	1220 x 4000	7	65%
	20	6.2/5.0	38.1 x 38.1	1220 x 4000	9.8	65%
	25	6.4/5.0	38.1 x 38.1	1524 x 4000	12.3	68%
				1220 x 4000		
				1220 x 3660		
				998 x 4085		
	30	6.5/5.0	38.1 x 38.1	1524 x 4000	14.6	68%
				996 x 4090		
				996 x 4007		
				1220 x 3660		
35	10.5/9.0 heavy duty	38.1 x 38.1	1227 x 3666	29.4	56%	
			1220 x 4312			
38	7.0/5.0	38.1 x 38.1	1524 x 4000	19.5	68%	
			1220 x 4235			
			1220 x 4000			
			1000 x 4007			

50 x 50

Photo	Height (mm)	Bearing Bar Thickness (Top/Bottom)	Mesh Size (mm)	Panel Size (mm)	Approx. Weight (kgs/m <sup>2</sup> )	Open Area (%)	
	12	6.0/5.0	50 x 50	1906 x 4012	4.8	82%	
	13	6.0/5.0 Diamond	50 x 50	1215 x 4115	6	82%	
	15	6.2/5.0	50.8 x 50.8	1220 x 4000	7	78%	
	25	6.4/5.0	50.8 x 50.8	1524 x 4000	11.5	78%	
	40	7.0/5.0	50.8 x 50.8	1227 x 5040	15.9	80%	
				50.8 x 50.8			1788 x 4531
				50.8 x 50.8			1227 x 4980
	50	7.0/5.0	50.8 x 50.8	1524 x 4020	20.8	78%	
				50.8 x 50.8			
	50	8.0/6.0	50.8 x 50.8	1226 x 4022	23.7	78%	
63	8.3/6.0	49.2 x 49.2	1242 x 4289	28.8	78%		



# FIBREGLASS GRATING



Micro Mesh



Mini Mesh

13 x 13 / 40 x 40

Photo	Height (mm)	Bearing Bar Thickness (Top/Bottom)	Mesh Size (mm)	Panel Size (mm)	Approx.Weight (kgs/m <sup>2</sup> )	Open Area (%)
	22	6.4 & 4.5 / 5.0	13.3 x 13.3 / 40 x 40	1527 x 4047	14.3	30%
	25	6.5 & 4.5 / 5.0	13.3 x 13.3 / 40 x 40	1247 x 4047	15.2	30%
	30	7.0 & 4.5 / 5.0	13.3 x 13.3 / 40 x 40	1527 x 4047	19.6	30%
	38	7.0 & 4.5 / 5.0	13.3 x 13.3 / 40 x 40	1527 x 4047	20.3	30%

20 x 20 / 40 x 40

Photo	Height (mm)	Bearing Bar Thickness (Top/Bottom)	Mesh Size (mm)	Panel Size (mm)	Approx.Weight (kgs/m <sup>2</sup> )	Open Area (%)
	14	6.4 / 5.0	20 x 20 / 40 x 40	1247 x 4047	10.5	42%
	22	6.4 / 5.0	20 x 20 / 40 x 40	1527 x 4047	15.2	42%
	30	6.5 / 5.0	20 x 20 / 40 x 40	1247 x 4047	18.3	42%
				1007 x 4047		
	40	7.0 / 5.0	20 x 20 / 40 x 40	1527 x 4047	23.7	42%



# FIBREGLASS GRATING

Clear Span - mm	Load / Deflection	38mm Composite Engineering Grating									
		500	1000	1500	2000	2500	3000	3500	3900	4400	4900
305	U	500	1000	1500	2000	2500	3000	3500	3900	4400	4900
	u	<0.25	<0.25	<0.25	0.26	0.32	0.48	0.51	0.63	0.76	1.04
	C	50	100	150	200	250	300	360	410	460	500
	c	<0.25	0.25	0.32	0.51	0.63	0.76	0.88	1.04	1.13	1.27
460	U	250	500	1000	1500	2000	2500	3000	3500	3900	4400
	u	<0.25	0.25	0.76	1.04	1.27	1.54	1.78	2.29	2.56	3.05
	C	50	100	150	200	250	300	350	400	450	500
	c	<0.51	0.78	1.35	1.58	2.18	2.36	2.7	2.91	3.43	3.95
	P	50	100	150	200	250	300	350	400	450	500
	p	<0.25	<0.25	0.5	0.62	0.78	0.93	1.03	1.25	1.42	1.53
610	U	500	1000	1500	2000	2500	3000	3200	4200		
	u	0.76	1.27	2.29	3.56	4.58	5.6	6.1	8.12		
	C	50	100	150	200	250	300	350	400	450	
	c	0.76	1.52	2.29	3.05	4.06	4.58	5.35	6.1	6.96	
	P	50	100	150	200	250	300	350	400	450	500
	p	<0.25	<0.51	0.75	1.27	1.56	1.78	2.04	2.29	2.6	3.05
915	U	250	370	500	610	730	850	1000	1700		
	u	2.08	3.33	4.58	5.6	6.86	8.14	9.65	17.17		
	C	25	35	50	75	100	125	150	175	200	
	c	1.04	1.87	2.64	3.85	5.2	6.24	7.81	9.95	9.99	
	P	50	100	150	200	250	300	350	400	450	500
	p	0.76	1.27	2.08	2.64	3.1	4.16	4.82	5.62	6.45	7.39
1220	U	195	240	270	290	320	340	370	490		
	u	5.1	6.61	7.44	8.32	9.26	9.94	10.7	14.1		
	C	23	27	32	36	41	45	90	115	140	
	c	2.5	3.05	3.84	4.58	5.08	5.83	10.4	12.7	15.9	
	P	50	100	150	200	250	300	350	400	450	500
	p	1.27	2.55	4.07	5.33	6.86	8.13	9.65	10.9	12.2	13.9

U = Uniform Load (kg/m<sup>2</sup>)

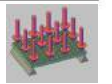
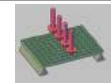
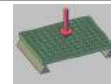
C = Concentrated Line Load (kg/m)

P = Point Load (kg)

u = Uniform Load Deflection (mm)

c = Concentrated Line Load Deflection (mm)

p = Point Load Deflection (mm)



## MATERIAL COMPARISON CHART

	CE FRP	Steel	Aluminium	Timber
Corrosion Resistance	High	Low	Med	Low
Strength	High	High	Low	Low
Weight	Low	High	Low	Medium
Life Cycle Cost	Low	Moderate	Moderate	High
Fabrication	Easy	Easy	Moderate	Easy
Electrical Conductivity	Low	High	High	Moderate
Thermal Conductivity	Very Low	High	High	Low
RFI / EMI Transparency	Yes	No	No	Yes
Environmental Impact	Low	High	High	Low

