



Grating Company Pty Ltd

Tread Safely With Us

F.R.P. FIBREGLASS REINFORCED POLYESTER TECHNICAL DATA (Moulded Grating)

Grating Company moulded grating provides an efficient and cost effective solution for all flooring, walkways and decking areas requiring long term performance in very aggressive and corrosive environments. Constructed from glass reinforced thermoset resins, Grating Company moulded grating is an excellent choice to replace conventional steel and aluminium flooring systems in such aggressive environments.

CHEMICAL AND CORROSION RESISTANCE

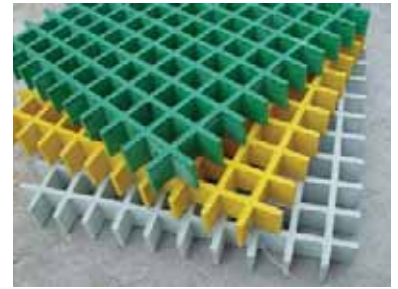
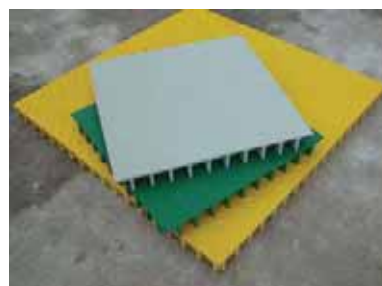
Grating Company moulded fibreglass grating is manufactured using high strength fibreglass rovings and a range of premium grade thermosetting resins. A high resin content of nominally 65-70% provides long maintenance free performance in corrosive environments.

HIGH STRENGTH TO WEIGHT RATIO

The use of high strength E-glass roving reinforcement, moulded to form a square mesh grating panel, produces a strong flooring system suitable for safe pedestrian traffic on a wide range of spans.

LIGHT WEIGHT AND MANAGEABLE

The composite used in the construction of Grating Company moulded grating has a specific gravity one-fourth that of steel and two-thirds that of aluminium which considerably simplifies installation and handling. Unlike metallic grating, moulded grating panels can be easily cut on site using only hand tools. The ease of handling makes it the ideal grating to install in those difficult to access areas. Load bearing bars in both directions of the panel allow for use without continuous side support.



IMPACT RESISTANT

Having a square mesh and continuous woven roving reinforcement pattern assists in providing a grating panel with high impact resistance. Repeated loads can be allied with little or no permanent deformation.

STABILITY

Panels of moulded grating are inherently stable due to their square mesh construction. No amount of pedestrian traffic will separate the grid components thus affording a safe reliable walking surface.

NON SLIP SURFACE

Standard moulded grating panels have a concave profile on the upper surface for skid resistance. This is created in the moulding process. Grit surfaces are also available on request and this tough quartz finish will ensure the maximum in skid resistance and safety even in wet environments.

NON SPARKING / NON CONDUCTIVE

Impact on metallic grating by metallic objects can create sparks of sufficient energy to ignite combustible gases. Grating Company moulded grating installed in such dangerous areas will not create sparks when impacted with metallic or other objects and can be safely used in electrical environments.

TRANSPARENT TO RF TRANSMISSION

Fibreglass does not cause electromagnetic interference and is transparent to radio frequency transmissions. Grating Company moulded fibreglass grating provides a solution in applications where clarity of communication transmissions is paramount.

Distributed
in Queensland
by

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TECHNICAL SPECIFICATIONS

LOAD DEFLECTION DATA (METRIC)

*Full deflection data available on request



Clear Span (mm)	Load Type	25mm THICK (38mm x 38mm) Square Mesh							
		500	1500	2500	3500	4400	5000	6800	8800
305	U	500	1500	2500	3500	4400	5000	6800	8800
	u	0.26	0.54	1.02	1.27	2.03	2.58	2.80	3.31
	C	50	100	150	200	250	300	360	410
610	u	0.25	0.75	1.02	1.27	1.53	2.08	2.29	2.80
	C	12	23	34	45	90	120	140	*
	P	45	135	230	270	320	360	410	460
915	u	0.76	1.78	3.05	3.55	4.10	5.06	5.59	6.35
	C	12	23	45	68	90	115	140	*
	P	50	100	150	200	250	300	350	*
1220	u	3.05	6.35	10.4	14.5	22.4	29.5	37.4	*
	C	12	23	45	68	90	115	140	*
	P	50	100	150	200	250	300	350	*

Clear Span (mm)	Load Type	38mm THICK (38mm x 38mm) Square Mesh							
		500	1000	1500	2000	2500	3000	3500	3900
305	U	500	1000	1500	2000	2500	3000	3500	3900
	u	<0.25	<0.25	<0.25	0.26	0.32	0.48	0.51	0.63
	C	50	100	150	200	250	300	360	410
610	u	<0.25	<0.25	0.32	0.51	0.63	0.76	0.88	1.04
	C	50	100	150	200	250	300	350	400
	P	50	100	150	200	250	300	350	400
915	u	0.76	1.52	2.29	3.05	4.06	4.58	5.35	6.10
	C	50	100	150	200	250	300	350	400
	P	50	100	150	200	250	300	350	400
1220	u	<0.25	<0.51	0.75	1.25	1.56	1.78	2.04	2.29
	C	25	35	50	75	100	125	150	175
	P	50	100	150	200	250	300	350	400
1520	u	2.08	3.33	4.58	5.60	6.86	8.14	9.65	11.17
	C	25	35	50	75	100	125	150	175
	P	50	100	150	200	250	300	350	400
1820	u	5.10	6.61	7.44	8.32	9.26	9.94	10.7	14.1
	C	23	27	32	36	41	45	90	115
	P	50	100	150	200	250	300	350	400
2120	u	2.50	3.05	3.84	4.58	5.08	5.83	10.4	12.7
	C	23	27	32	36	41	45	90	115
	P	50	100	150	200	250	300	350	400
2420	u	1.27	2.55	4.07	5.33	6.86	8.13	9.65	10.9
	C	23	27	32	36	41	45	90	115
	P	50	100	150	200	250	300	350	400

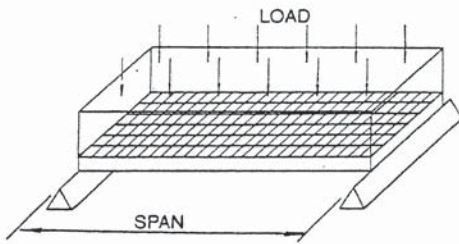
Clear Span (mm)	Load Type	51mm THICK (51mm x 51mm) Square Mesh							
		2500	3500	4900	9800	14600	20000	25000	29000
305	U	2500	3500	4900	9800	14600	20000	25000	29000
	u	0.25	0.38	0.50	1.04	1.50	2.04	2.50	2.80
	C	125	230	340	450	680	900	1200	1400
610	u	0.25	0.50	0.51	0.76	1.27	1.51	2.04	2.50
	C	125	180	275	360	410	450	550	640
	P	125	230	340	450	570	680	800	900
915	u	1.04	1.78	2.29	2.80	3.31	3.81	4.32	4.83
	C	125	180	275	360	410	450	550	640
	P	125	230	340	450	570	680	800	900
1220	u	0.51	1.04	1.27	1.78	2.29	2.50	3.05	3.56
	C	50	90	140	180	230	275	320	360
	P	125	230	340	450	570	680	800	900
1520	u	1.04	1.78	2.80	3.81	4.58	5.60	6.40	7.65
	C	50	90	140	180	230	275	320	360
	P	125	230	340	450	570	680	800	900
1820	u	4.83	6.40	8.14	9.92	11.94	14.50	*	*
	C	34	50	90	140	180	230	275	*
	P	50	125	230	340	450	570	680	800
2120	u	0.76	1.78	3.81	5.60	7.65	9.40	11.43	13.21
	C	50	125	230	340	450	570	680	800
	P	125	230	340	450	570	680	800	900
2420	u	8.90	13.21	17.80	22.61	*	*	*	*
	C	23	34	50	90	140	*	*	*
	P	23	34	50	90	140	*	*	*
2720	u	2.80	4.32	5.60	11.69	17.28	*	*	*
	C	23	34	50	90	140	*	*	*
	P	23	34	50	90	140	*	*	*

MOULDED GRATING	THICKNESS	BAR SPACING	% OPEN AREA	KGS PER S/M
	12	51 x 51	79	5
	15	38 x 38	70	7
	25	38 x 38	70	12
	38	38 x 38	70	18
51	51 x 51	79	20	

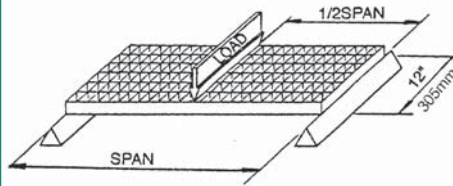


Chemical resistance chart and fire resistance report available on request.

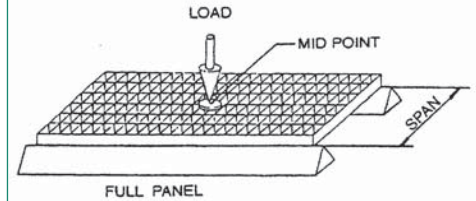
LOADING TYPE



U Uniform load - kg/m² (lbs/ft²)
u Uniform load deflection - mm(in.)

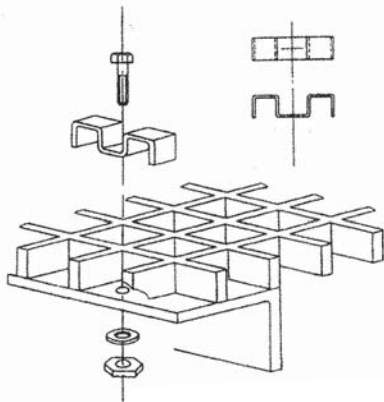


C Concentrated line load - kg/m width (lbs/ft)
c Concentrated line load deflection - mm (in.)

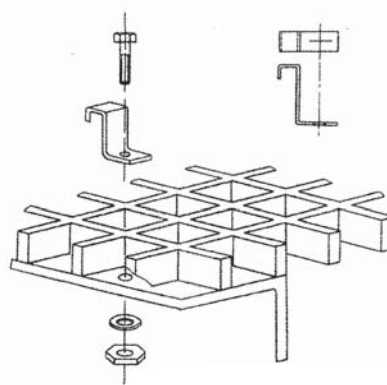


P Concentrated load - kg (lbs)
p Concentrated point load deflection - mm (in.)

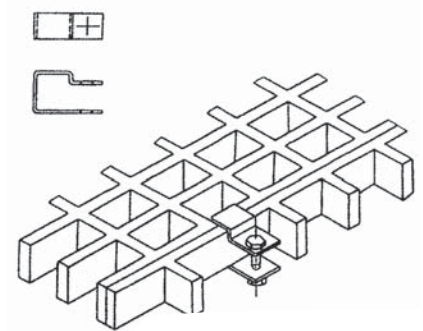
FIXINGS



Type M holds down clips



Type L holds down clips



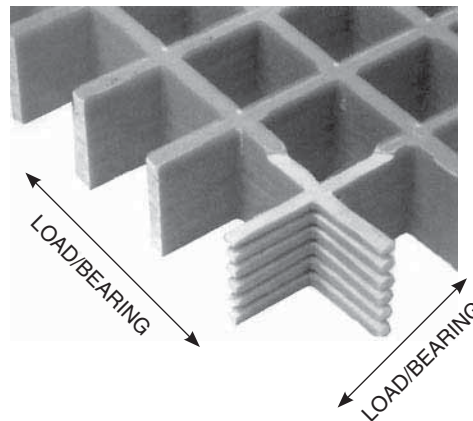
Type C end panel clips

DESIGN

Moulded grating is made by manually laying the fibreglass strands BiDirectional. Once the desired thickness is met the resin is then added. Because the grating is "cast" in one piece, there is no mechanical joint between bearing bars, unlike the pultruded grating where the glued joints can give way in heavy continuous traffic or after prolonged service.

The high percentage of resin (65%) in moulded grating offers superior corrosion resistance. The moulded grating with a square mesh pattern offers increased load capacity and panel utilization due to this bi-directional trait.

Cutting access holes in the moulded grating does not weaken the panel and does not require additional or costly supports.



Grating Company moulded grating is engineered to meet the requirements of Australian Standard AS 1657-1992.

Premium grade vinyl ester resin offers superior resistance to corrosion over a broad range of elevated temperatures. Both types of resin systems come standard with U.V. inhibitors and fire retardants conforming to class 1 flame spread rating of less than 10 when tested to the Tunnel Test requirements of ASTM E-84.

OTHER PRODUCTS

SOLID NOSE STAIR TREADS
TREAD GRIP (STAIR TREAD OVERLAY)
TREAD GRIP NOSING



LADDER GRIP



EDGE RAMP



TREAD GRIP



STOCKED SIZES (mm)

Colours: green/yellow

MOULDED GRATING	12mm	3660 x 1220		
	25mm	3660 x 1220	3050 x 915	2000 x 1000
	38mm	3660 x 1220	3050 x 915	3050 x 1532 2000 x 1000
	51mm	3660 x 1220		
ROOF WALKWAY	15mm	3660 x 615		Yellow
	22mm	3660 x 615		Yellow
MINI MESH	30mm	3660 x 1220		2000 x 1000
SOLID TOP	30mm	3660 x 1220		2000 x 1000
	41mm	3660 x 1220		
FLAT PLATE	4mm		3000 x 1000	
NOTE NON STANDARD SIZES AND RAL COLOURS AVAILABLE ON REQUEST				

RELATED F.R.P. PRODUCTS

EDGE RAMP	25mm	2000	Yellow
STAIR TREAD NOSE	-	70 x 30 x 3000	
STAIR TREAD SOLID NOSE	38mm	654 x 3050	
STAIR TREAD OVERLAY	-	300 x 300	Black / Yellow
LADDER GRIP	-	25 x 2000	Yellow

CONTACT DETAILS