

MuiGrate

**Molded
FRP Grating**



MUI FATT

MUI FATT MARKETING SDN. BHD.

www.muifatt.com

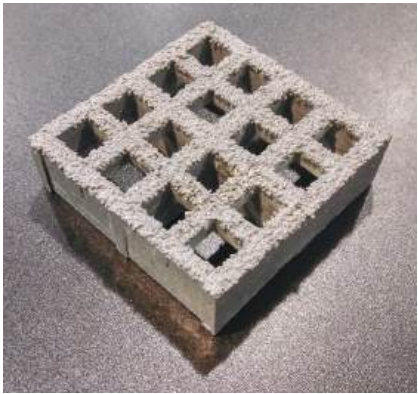
Phone : +603-3134 3888 Fax : +603-3134 3889

Email : sales@muifatt.com.my

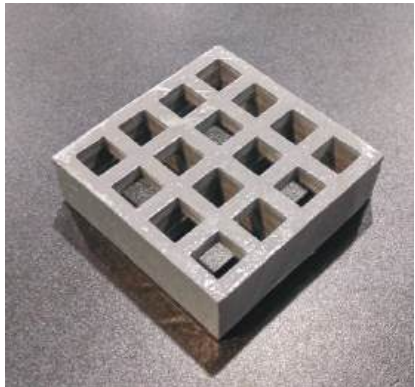
MuiGrate

MuiGrate is a one-piece (integral), reinforced FRP grating in standard panels and sizes. It is manufactured by interweaving continuous, thoroughly-wetted, fiberglass strand with thermosetting resin systems. Typical applications include floor systems, walkways, work platforms, stairs, ramps, trench covers and catwalks. **MuiGrate's** integral, long-lasting anti-slip top surface makes this the grating of choice in many industries. It is preferred when slippery working conditions are present.

The High resin content (65%) provides long maintenance-free performance. The strong mesh grating panel allows efficient on-site cutting to minimize grating waste. Molded grating is significantly lighter in weight than metallic gratings. Standard **MuiGrate** grating has a concave profile on the upper surface for kid resistance. Grit tops are available upon request.



Gritted



Non Gritted



Covered FRP Gritted

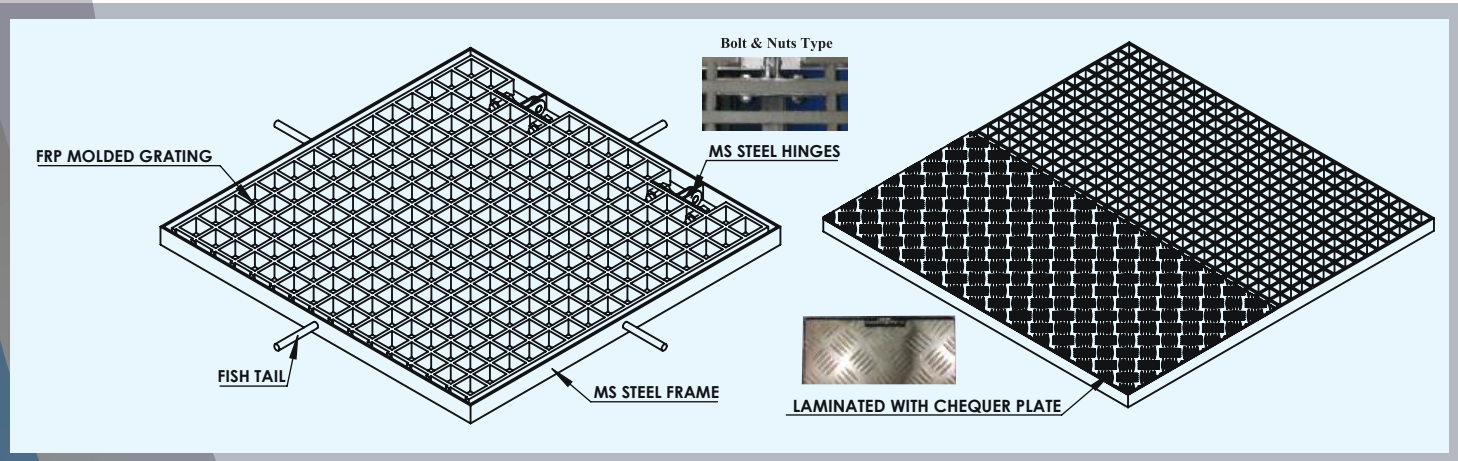
FIBERGRATE MARKETS

- Architectural
- Bridge & Highway
- Chemical
- Commercial
- Food & Beverage
- Manufacturing
- Metal & Mining
- Microelectronics
- Oil & Gas
- Offshore
- Pharmaceutical
- Power
- Pulp & Paper
- Recreation
- Telecommunications
- Transportation
- Water & Wastewater

Standard Size Specification :-

Series	Height (mm)	Mesh Size (mm)	Standard Panel (mm)	Open Area	Weight		Desp Square
					kg/panel	kg/m2	
MG25(38/38)	25	38x38	1220x3660	69%	55.0	12.32	Square
MG30(38/38)	30	38x38	1220x3660	69%	67.0	15.00	Square
MG38(38/38)	38	38x38	1220x3660 1527x4000	69%	90.0	20.16	Square
MG50(38/38)	50	38x38	1220x3660	69%	110.0	24.63	Square
MG25(20/20)	25	20x20 (U) 40x40 (D)	1220x3660	38%	73.0	16.35	Minimesh
MG38(20/20)	38	20x20 (U) 40x40 (D)	1007x4047	42%%	89.0	21.84	Minimesh
MG25(25/100)	25	25x100	1207x4107	67%	62.0	12.46	Long

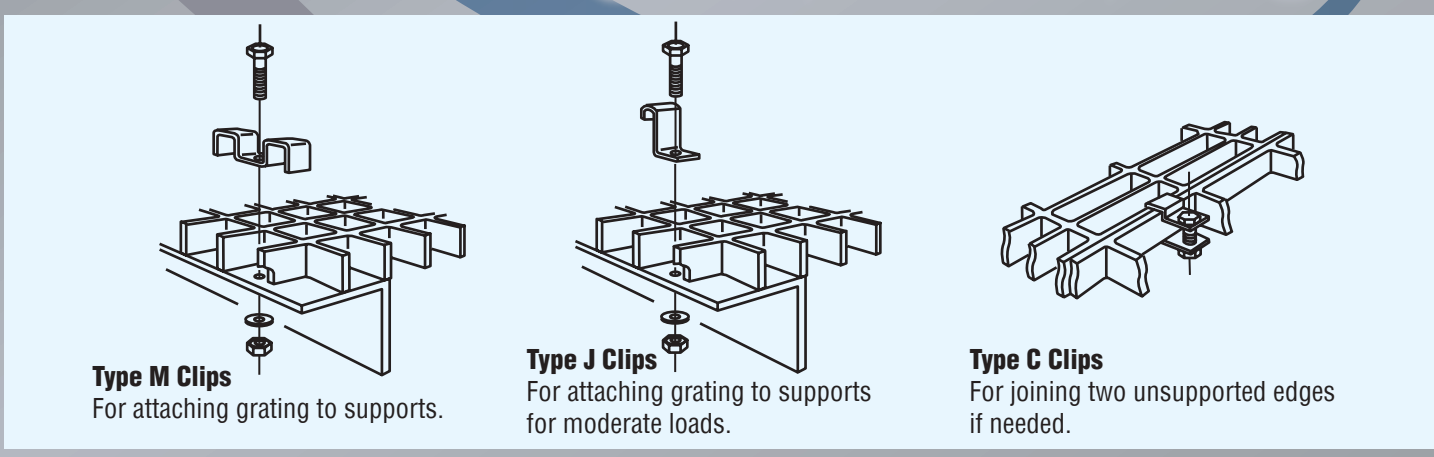
* U : Upper Mesh D : Lower Mesh



Resin System

Orthophthalic Polyester Resin Durable and long lasting reinforced plastics to replace rusting steel and such reduce maintenance free. Non-recyclable to avoid theft. Useable in construction or commercial that less chemical resistance required	Vinyl Ester Resin Such resin provides the most chemical resistance in the industry, designed to withstand hardest chemical environment over a broad range of acids and caustics, it is primarily used in petrochemical waste water and plating factory.
Isophthalic Polyester Resin Provides an intermediate level of resistance and is the correct resin choice for grating subjected to splash and spill contact with harsh chemicals, and is a very good general purpose resin at a reduced cost compared to the premium vinyl ester resin	Fire Rating / FR Fire resistance for each resin for above are available for area that high fire rating application. Eg, ISO-FR/ GP-FR/ VE-FR.

Installation Fixing for Molded Grating

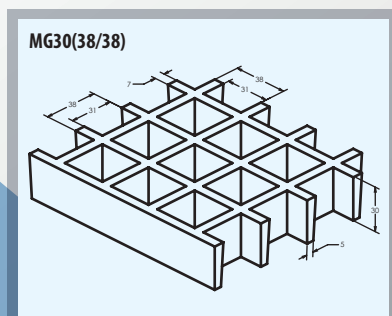


Molded Grating Performance Chart

Uniform Distributed Load (UDL), Concentrated Load (CL), ΔU : UDL Deflection in mm, ΔC : CL Deflection in mm

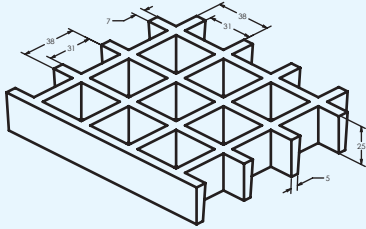
The load values refer to a L/100 (1%) deflection

The load values indicated represent average values (tolerance +/- 15%)



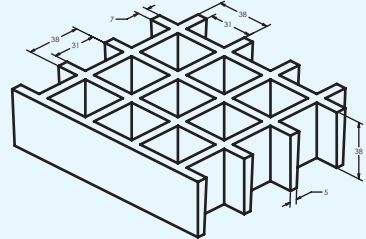
SPAN mm	LOAD (UDL : Kn/M ² , CL : KN/M)						MAXIMUM LOAD
	UDL	1.2	2.4	3.6	4.8	9.7	
	CL	1.0	1.5	3.0	6.0	9.0	
457	ΔU	0.01	0.02	0.03	0.05	0.9	50.18
	ΔC	1.09	1.67	3.21	6.36	3.9	4.30
610	ΔU	0.36	0.69	1.02	1.35	2.71	22.03
	ΔC	2.45	3.68	7.22			2.52
914	ΔU	1.58	3.15	4.78	6.27	12.69	7.00
	ΔC	7.62					1.20
1219	ΔU	2.85	5.67	8.48	11.3		5.16
	ΔC	0.0					0.74

MG25(38/38)



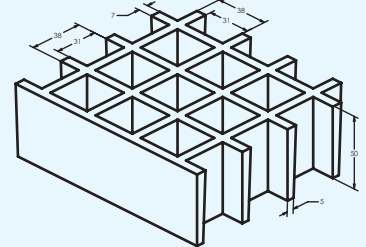
SPAN mm	LOAD (UDL : Kn/M2, CL :KN/M)						MAXIMUM LOAD
	UDL	1.2	2.4	3.6	4.8	9.7	
	CL	1.0	1.5	3.0	6.0	9.0	
305	ΔU	0.0	0.0	0.0	0.0	0.0	38.6
	ΔC	0.53	0.81	1.62	3.16	4.5	5.72
457	ΔU	0.21	0.38	0.56	0.75	1.51	29.4
	ΔC	1.83	2.76	5.42	10.8		2.52
610	ΔU	0.58	1.17	1.75	2.32	4.68	12.6
	ΔC	4.27	6.38	12.72			1.44
914	ΔU	3.03	6.04	12.1			3.62
	ΔC	0.0					0.56

MG38(38/38)



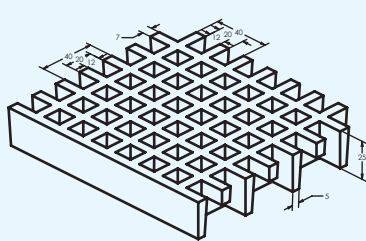
SPAN mm	LOAD (UDL : Kn/M2, CL :KN/M)						MAXIMUM LOAD
	UDL	1.2	2.4	3.6	4.8	9.7	
	CL	1.0	1.5	3.0	6.0	9.0	
457	ΔU	0.00	0.00	0.00	0.00	0.0	55.30
	ΔC	0.53	0.81	1.62	3.16	4.5	5.72
610	ΔU	0.18	0.37	0.54	0.72	1.45	40.22
	ΔC	1.35	2.03	3.92	7.86	11.93	4.60
914	ΔU	0.93	1.84	2.77	3.7	7.37	11.90
	ΔC	4.45	6.7	13.34			2.04
1219	ΔU	2.85	5.67	8.48	11.3		5.16
	ΔC	10.30					1.18

MG50(38/38)



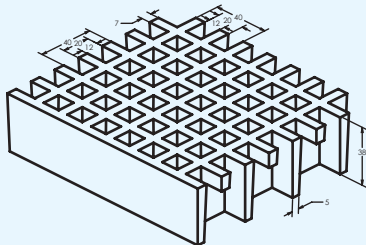
SPAN mm	LOAD (UDL : Kn/M2, CL :KN/M)						MAXIMUM LOAD
	UDL	1.2	2.4	3.6	4.8	9.7	
	CL	1.0	1.5	3.0	6.0	9.0	
610	ΔU	0.1	0.2	0.3	0.4	0.8	78.34
	ΔC	0.71	1.05	2.14	4.16	6.13	8.96
914	ΔU	0.49	0.91	1.35	1.82	3.61	24.39
	ΔC	2.19	3.3	6.56	13.1		4.18
1219	ΔU	1.41	2.79	4.19	5.56	11.21	10.50
	ΔC	5.09	7.62	15.24			2.40
1372	ΔU	2.28	4.52	6.73	9.01		7.31
	ΔC	7.32	10.98				1.88

MG25(20/20)



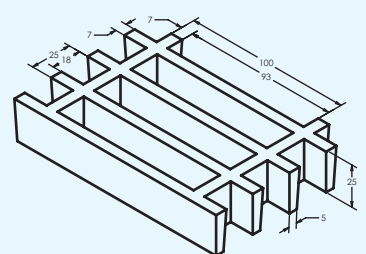
SPAN mm	LOAD (UDL : Kn/M2, CL :KN/M)						MAXIMUM LOAD
	UDL	1.2	2.4	3.6	4.8	9.7	
	CL	1.0	1.5	3.0	6.0	9.0	
305	ΔU	0.0	0.0	0.0	0.0	0.0	45.6
	ΔC	0.46	0.65	1.34	2.62	3.9	6.9
457	ΔU	0.14	0.31	0.49	0.61	1.21	37.11
	ΔC	1.47	2.26	4.4	8.53		3.18
610	ΔU	0.47	0.97	1.39	1.87	3.68	16.09
	ΔC	3.35	5.02	9.89			1.84
914	ΔU	2.36	4.71	7.06	9.38		4.67
	ΔC	0.0					0.82

MG38(20/20)



SPAN mm	LOAD (UDL : Kn/M2, CL :KN/M)						MAXIMUM LOAD
	UDL	1.2	2.4	3.6	4.8	9.7	
	CL	1.0	1.5	3.0	6.0	9.0	
457	ΔU	0.00	0.00	0.00	0.00	0.0	63.50
	ΔC	0.51	0.75	1.48	2.91	4.42	9.36
610	ΔU	0.15	0.31	0.45	0.61	1.22	48.96
	ΔC	0.77	1.53	2.28	3.02	6.01	14.59
914	ΔU	1.02	1.58	3.2	6.5	9.71	5.60
	ΔC	3.63	5.58	10.8			2.50
1219	ΔU	2.46	4.89	7.35	9.78		5.95
	ΔC	8.98	13.38				1.36

MG25(25/100)



SPAN mm	LOAD (UDL : Kn/M2, CL :KN/M)						MAXIMUM LOAD
	UDL	1.2	2.4	3.6	4.8	9.7	
	CL	1.0	1.5	3.0	6.0	9.0	
305	ΔU	0.0	0.0	0.0	0.0	0.0	56.2
	ΔC	0.34	0.48	0.92	1.81	2.72	10.16
457	ΔU	0.12	0.24	0.35	0.46	0.93	47.85
	ΔC	1.21	1.69	3.37	6.71	10.07	4.1
610	ΔU	0.4	0.78	1.18	1.52	3.05	19.93
	ΔC	2.7	4.06	8.08			2.28
914	ΔU	1.86	3.7	5.57	7.4		5.95
	ΔC	8.92					1.02

Notes

1. The Load on the charts are subjected to Static Load Condition at ambient temperature only

2. Long term loads will results in added deflection due to creep in the material and will also will require high safety factors to ensure acceptable performance. For design purposes,the recommended safety factor is 2.0