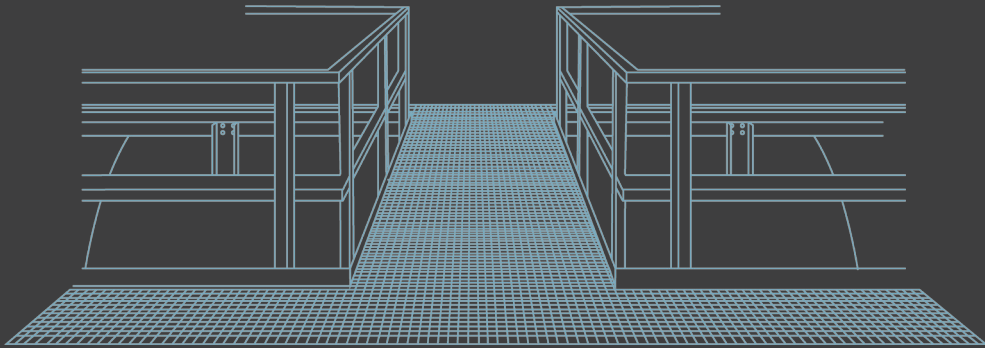
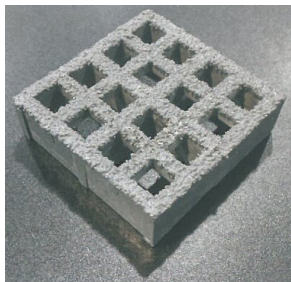
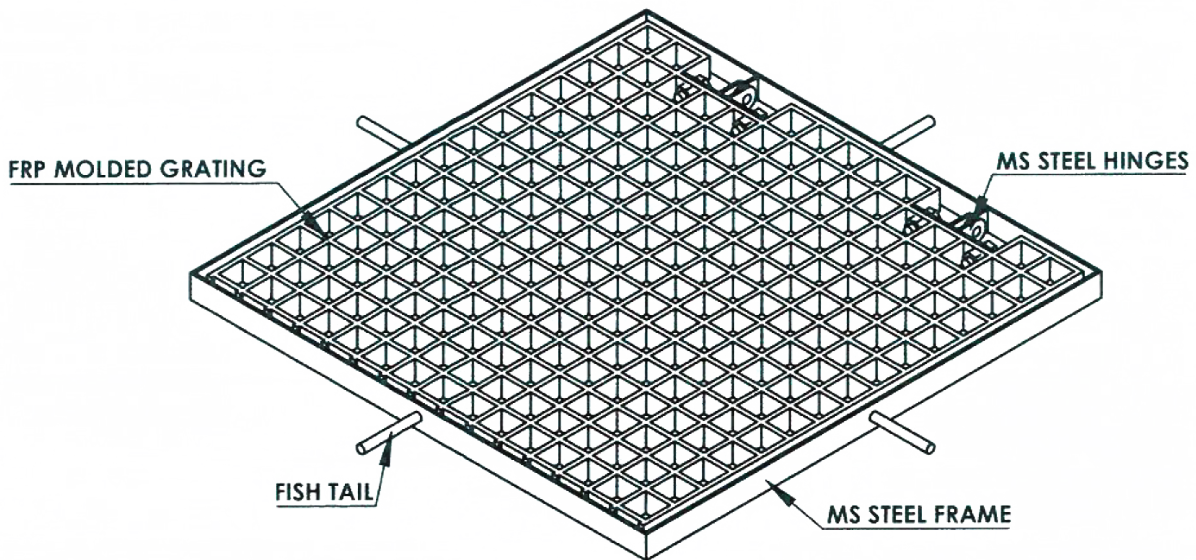




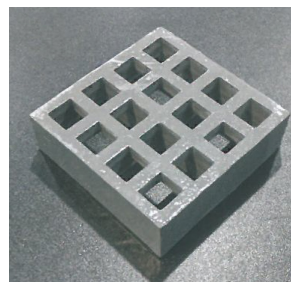
Mui Grate

MOLDED FRP GRATING

MUI GRATE



Gritted



Non Gritted

MuiGrate is a one-piece (inregal), 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. **Mui Grate's** integral, long-lasting anti slip top surface makes this 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 a available upon request.

Molded Grating vs Pultruded Grating		
Characteristic	Molded Grating	Pultruded Grating
Chemical Resistance	Excellent	Good
Bi-directional Strength	Excellent	Not Recommended
Undirectional Strength	Very Good	Excellent
Impact Resistance	Excellent	Average
Open Area	Excellent (70% to 80%)	Good (40% to 60%)
Panel Sizes Available	Excellent	Excellent
Pipe Penetrations	Excellent	Excellent
Safety	Excellent	Excellent

Resin System

Orthophthalic Polyester Resin

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.

Isophthalic Polyester Resin

Provides a 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.

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 caustic, it is primarily used in petrochemical waste water and plating factory.

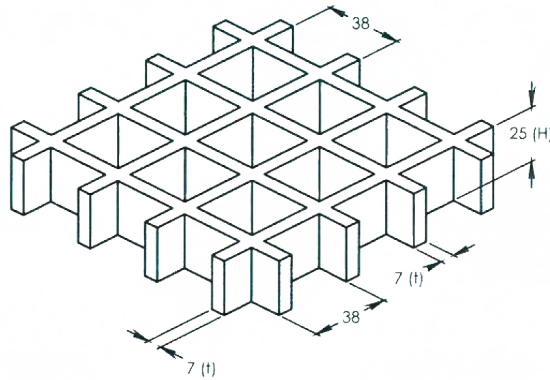
Fire rating/ FR

Fire resistance for each resin for above are available for area that high fire rating application. Eg, ISO-FR/ GP-FR/ VE-FR.

Quality Standard and approval:



Molded Grating Performance Chart



MG25(38/38)

Height:

20 mm

Mesh Size:

38 X 38 mm

Standard Penal:

1220 X 3660

Open Area:

96 %

Weight:

56.0 kg/m²

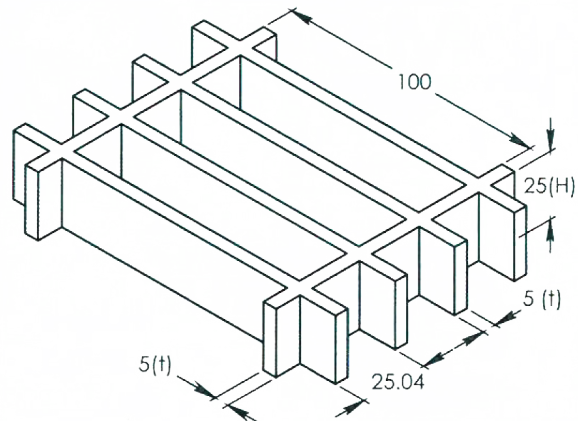
Desp:

Square

ΔU	UDL,(Kn/m ²)					
Span,(mm)	1.2	2.4	3.6	4.8	9.7	L/100
305	0.0	0.0	0.0	0.0	0.0	38.6
457	0.21	0.38	0.56	0.75	1.51	29.4
610	0.58	1.17	1.75	2.32	4.68	12.6
914	3.03	6.04	12.1			3.62

ΔC	CL,(Kn/m)					
Span,(mm)	1.0	1.5	3.0	6.0	9.0	L/100
305	0.53	0.81	1.62	3.16	4.5	5.72
457	1.83	2.76	5.42	10.8		2.52
610	4.27	6.38	12.72			1.44
914	0.0					0.56

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



MG25(25/100)

Height:

25 mm

Mesh Size:

25 X 100 mm

Standard Penal:

1210 X 4112

Open Area:

67 %

Weight:

64.0 kg/m²

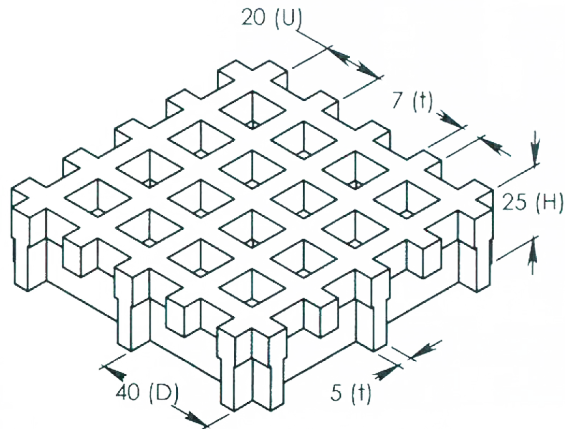
Desp:

Long

ΔU	UDL,(Kn/m ²)					
Span,(mm)	1.2	2.4	3.6	4.8	9.7	L/100
305	0.0	0.0	0.0	0.0	0.0	56.2
457	0.12	0.24	0.35	0.46	0.93	47.85
610	0.4	0.78	1.18	1.52	3.05	19.93
914	1.86	3.7	5.57	7.4		5.95

ΔC	CL,(Kn/m)					
Span,(mm)	1.0	1.5	3.0	6.0	9.0	L/100
305	0.34	0.48	0.92	1.81	2.72	10.16
457	1.21	1.69	3.37	6.71	10.07	4.1
610	2.7	4.06	8.08			2.28
914	8.92					1.02

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



MG25(20/20)

Height:

25 mm

Open Area:

38 %

Mesh Size:

20 X 20 mm(U) 40 X 40 mm (D)

Weight:

73.0 kg/m²

Standard Penal:

1220 X 3660

Desp:

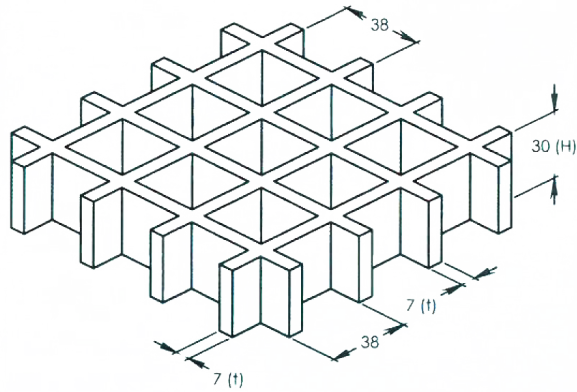
Minimesh

U:Upper mesh D:Lower mesh

ΔU	UDL,(Kn/m ²)					
Span,(mm)	1.2	2.4	3.6	4.8	9.7	L/100
305	0.0	0.0	0.0	0.0	0.0	45.6
457	0.14	0.31	0.49	0.61	1.21	37.11
610	0.47	0.97	1.39	1.87	3.68	16.09
914	2.36	4.71	7.06	9.38		4.67

ΔC	CL,(Kn/m)					
Span,(mm)	1.0	1.5	3.0	6.0	9.0	L/100
305	0.46	0.65	1.34	2.62	3.9	6.9
457	1.47	2.26	4.4	8.53		3.18
610	3.35	5.02	9.89			1.84
914	0.0					0.82

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



MG30(38/38)

Height:

30 mm

Mesh Size:

38 X 38 mm

Standard Penal:

1220 X 3660

Open Area:

69 %

Weight:

70.5 kg/m²

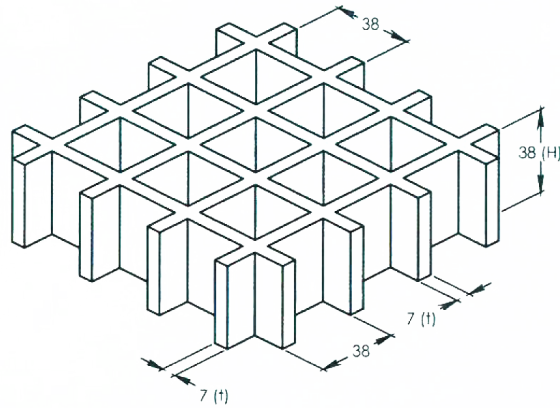
Desp:

Square

ΔU	UDL,(Kn/m ²)					
Span,(mm)	1.2	2.4	3.6	4.8	9.7	L/100
457	0.01	0.2	0.3	0.5	0.9	50.18
610	0.36	0.69	1.02	1.35	2.71	22.03
914	1.58	3.15	4.78	6.27	12.69	7.00
1219	2.85	5.67	8.48	11.3		5.16

ΔC	CL,(Kn/m)					
Span,(mm)	1.0	1.5	3.0	6.0	9.0	L/100
457	1.09	1.67	3.21	6.36	3.9	4.30
610	2.45	3.68	7.22			2.52
914	7.62					1.20
1219	0.0					0.74

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



MG38(38/38)

Height:

38 mm

Mesh Size:

38 X 38 mm

Standard Penal:

1220 X 3660

Open Area:

68 %

Weight:

87.0 kg/m²

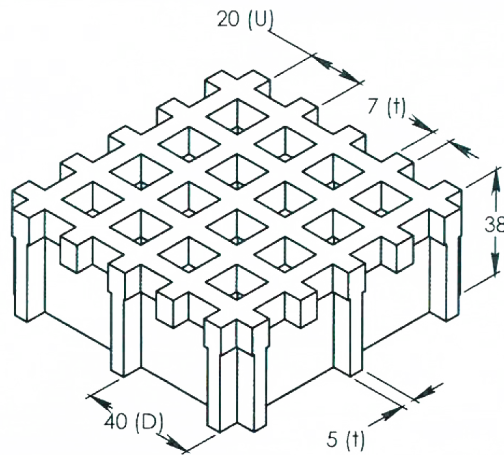
Desp:

Square

ΔU	UDL,(Kn/m ²)					
Span,(mm)	1.2	2.4	3.6	4.8	9.7	L/100
457	0.0	0.0	0.0	0.0	0.0	38.6
610	0.18	0.37	0.54	0.72	1.45	40.22
914	0.93	1.84	2.77	3.7	7.37	11.90
1219	2.85	5.67	8.48	11.3		5.16

ΔC	CL,(Kn/m)					
Span,(mm)	1.0	1.5	3.0	6.0	9.0	L/100
457	0.53	0.81	1.62	3.16	4.5	5.72
610	1.35	2.03	3.92	7.86	11.93	4.60
914	4.45	6.7	13.34			2.04
1219	10.30					1.18

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



MG38(20/20)

Height:

38 mm

Open Area:

42 %

Mesh Size:

20 X 20 mm (U) 40 X 40 mm (D)

Weight:

22.0 kg/m²

Standard Penal:

1007 X 4047

Desp:

Minimesh

U:Upper mesh D:Lower mesh

ΔU	UDL,(Kn/m ²)					
Span,(mm)	1.2	2.4	3.6	4.8	9.7	L/100
457	0.0	0.0	0.0	0.0	0.0	63.50
610	0.15	0.31	0.45	0.61	1.22	48.96
914	1.02	1.58	3.2	6.5	9.71	5.60
1219	2.46	4.89	7.35	9.78		5.95

ΔC	CL,(Kn/m)					
Span,(mm)	1.0	1.5	3.0	6.0	9.0	L/100
457	0.51	0.75	1.48	2.91	4.42	9.36
610	0.77	1.53	2.28	3.02	6.01	14.59
914	3.63	5.58	10.8			2.50
1219	8.98	13.38				1.36

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

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