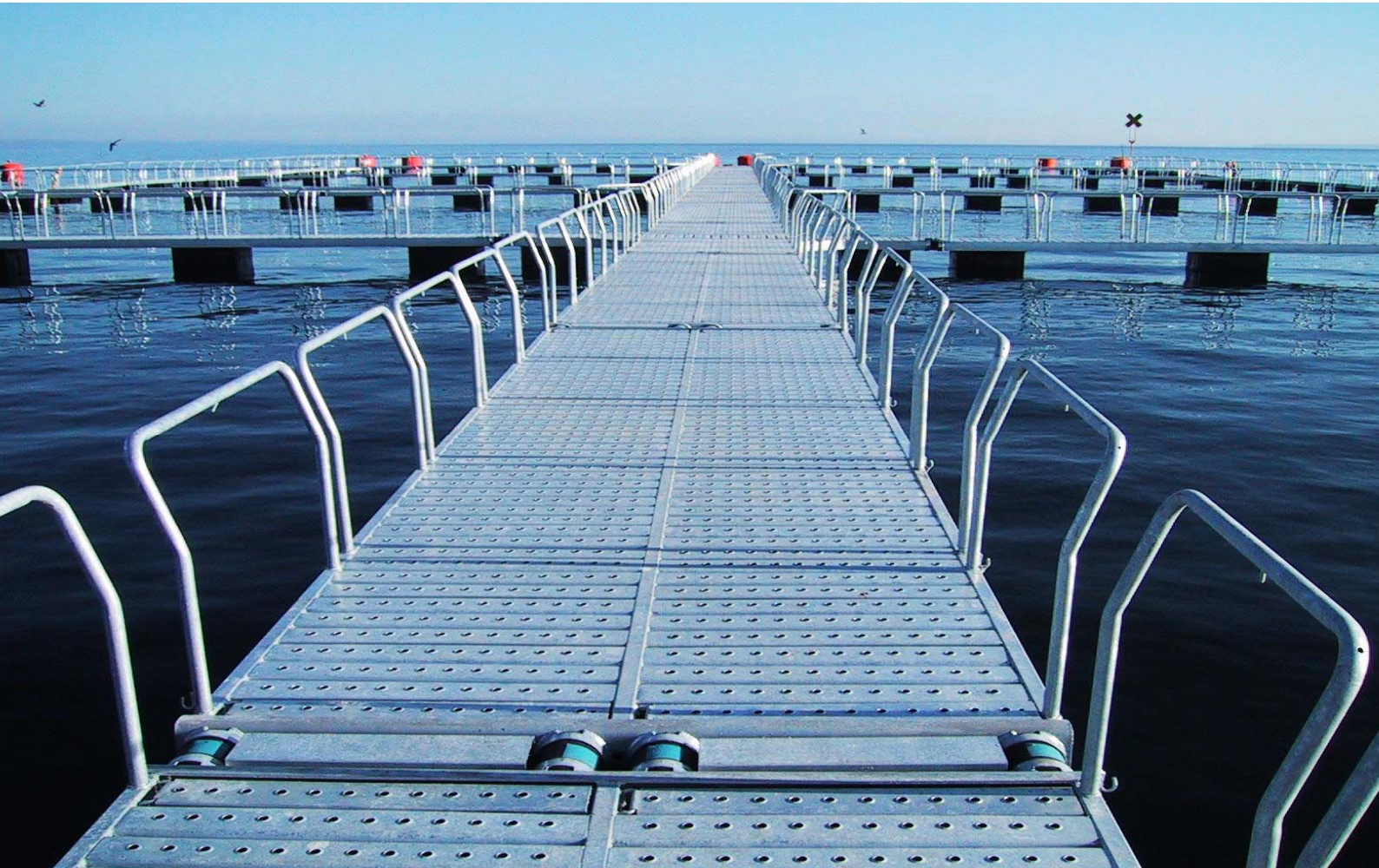


*We provide more than composite*



# Gratings Catalog

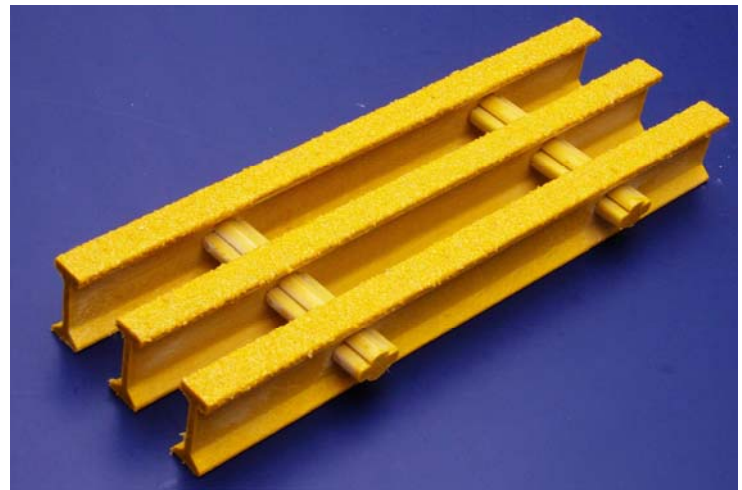


## General introduction

Unicomposite is specialized in the fiberglass reinforced plastic (FRP) gratings. We can supply two kinds of gratings: pultruded gratings and molded gratings.



Molded gratings



Pultruded gratings

## Features of our gratings

Light weight

High strength and heavy load

Various colors and sizes

Easy installation

Long life span

Good Performance in the  
corrosion and chemical  
environment.

## Chemical Resistant Table

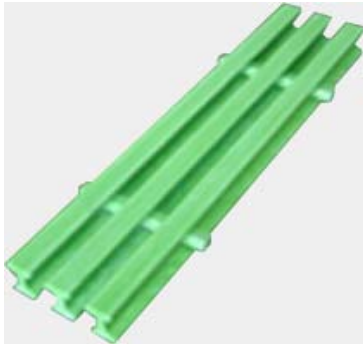
CHEMICAL	TYPE 'Vinyl'		TYPE 'Iso'		TYPE 'Ortho'	
Environment	%Conc.	Max. Oper. Temp. F/C	%Conc.	Max. Oper. Temp. F/C	%Conc.	Max. Oper. Temp. F/C
Acetic Acid	50	180/82	50	125/52	25	N/R
Aluminum Hydroxide	100	180/82	100	160/71	ALL	-
Ammonium Chloride	ALL	210/99	ALL	170/77	ALL	-
Ammonium Bicarbonate	50	160/70	15	125/52	ALL	-
Ammonium Hydroxide	28	100/38	28	N/R	ALL	N/R
Ammonium Sulfate	ALL	210/99	ALL	170/77	ALL	-
Benzene	ALL	N/R	ALL	N/R	ALL	N/R
Benzoic Acid	SAT	210/99	SAT	150/66	ALL	77/25
Borax	SAT	210/99	SAT	170/77	ALL	-
Calcium Carbonate	ALL	180/82	ALL	170/77	ALL	-
Calcium Nitrate	ALL	210/99	ALL	180/82	ALL	-
Carbon Tetrachloride	100	150/65	100	N/R	100	N/R
Chlorine Dry Gas	-	210/99	-	140/60	-	N/R
Chlorine Water	SAT	200/93	SAT	80/27	SAT	N/R
Chromic Acid	10	150/65	5	70/21	5	N/R
Citric Acid	ALL	210/99	ALL	170/77	ALL	77/25
Copper Chloride	ALL	210/99	ALL	170/77	ALL	104/40
Copper Cyanide	ALL	210/99	ALL	170/77	ALL	77/25
Copper Nitrate	ALL	210/99	ALL	170/77	ALL	-
Ethanol	50	100/38	50	75/24	10	77/25
Ethylene Glycol	100	200/93	100	90/32	100	104/40
Ferric Chloride	ALL	210/99	ALL	170/77	ALL	104/40
Ferrous Chloride	ALL	210/99	ALL	170/77	ALL	86/30
Formaldehyde	ALL	150/65	50	75/24	25	-
Gasoline	100	180/82	100	80/27	100	77/25
Glucose	100	210/99	100	170/77	ALL	-
Glycerin	100	210/99	100	150/66	100	-
Hydrobromic Acid	50	150/65	50	120/49	18	-
Hydrochloric Acid	37	150/65	37	75/24	10	86/30
Hydrogen Peroxide	30	150/65	5	100/38	5	N/R
Lactic Acid	ALL	210/99	ALL	170/77	ALL	77/25

.....

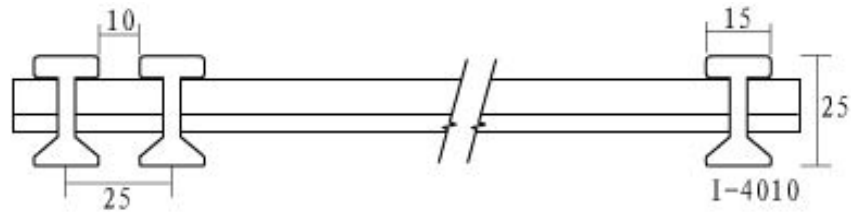
CHEMICAL	TYPE 'Vinyl'		TYPE 'Iso'		TYPE 'Ortho'		
	Environment	%Conc.	Max. Oper. Temp. F/C	%Conc.	Environment	%Conc.	Max. Oper. Temp. F/C
Magnesium Chloride	ALL		210/99	ALL	170/77	ALL	104/40
Magnesium Nitrate	ALL		210/99	ALL	140/60	ALL	86/30
Magnesium Sulfate	ALL		210/99	ALL	170/77	ALL	104/40
Mercuric Chloride	100		210/99	100	150/66	100	104/40
Mercurous Chloride	ALL		210/99	ALL	140/60	ALL	104/40
Nickel Chloride	ALL		210/99	ALL	170/77	ALL	104/40
Nickel Sulfate	ALL		210/99	ALL	170/77	ALL	104/40
Nitric Acid	20		120/49	20	70/21	2	N/R
Oxalic Acid	ALL		210/99	ALL	75/24	ALL	N/R
Perchloric Acid	30		100/38	10	N/R	10	N/R
Phosphoric Acid	100		210/99	100	120/49	80	N/R
Potassium Chloride	ALL		210/99	ALL	170/77	ALL	104/40
Potassium Dichromate	ALL		210/99	ALL	170/77	ALL	77/25
Potassium Nitrate	ALL		210/99	ALL	170/77	ALL	104/40
Potassium Sulfate	ALL		210/99	ALL	170/77	ALL	104/40
Propylene Glycol	ALL		210/99	ALL	170/77	ALL	104/40
Sodium Acetate	ALL		210/99	ALL	160/71	ALL	104/40
Sodium Bisulfate	ALL		210/99	ALL	170/77	ALL	-
Sodium Bromide	ALL		210/99	ALL	170/77	5	-
Sodium Cyanide	ALL		210/99	ALL	170/77	5	N/R
Sodium Hydroxide	25		180/82	N/R	N/R	1	N/R
Sodium Nitrate	ALL		210/99	ALL	170/77	ALL	104/40
Sodium Sulfate	ALL		210/99	ALL	170/77	ALL	104/40
Stannic Chloride	ALL		210/99	ALL	160/71	ALL	104/40
Sulfuric Acid	75		100/38	25	75/24	10	-
Tartaric Acid	ALL		210/99	ALL	170/77	ALL	-
Vinegar	100		210/99	100	170/77	ALL	-
Water Distilled	100		180/82	100	170/77	ALL	86/30
Zinc Nitrate	ALL		210/99	ALL	170/77	ALL	104/40
Zinc Sulfate	ALL		210/99	ALL	170/77	ALL	104/40

ALL...Concentrations; SAT...Saturated Solution; N/R...Not Recommended; -...No Information Available.

**1. Pultruded gratings**



**No.1 I-4010**

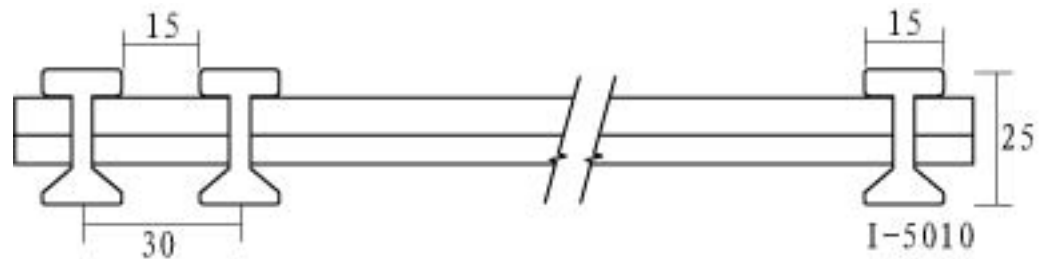


Height of Bearing Bar: 25mm  
Approx Weight: 17.1 Kg/sq.m

Open Ratio: 40%



**No.2 I-5010**

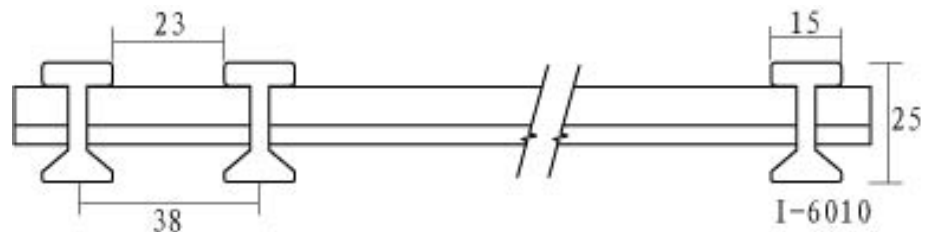


Height of Bearing Bar :25mm  
Approx Weight: 14.2

Open Ratio: 50%



**No.3 I-6010**

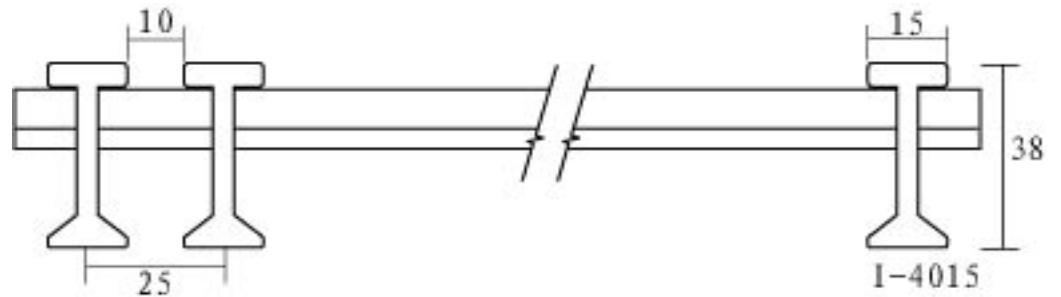
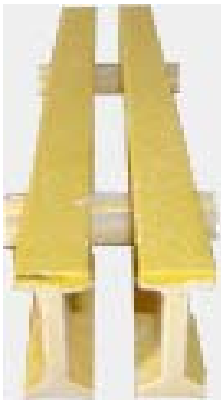


Height of Bearing Bar: 25mm  
Approx Weight: 11.2 Kg/sq.m

Open Ratio: 60%

## Pultruded Gratings

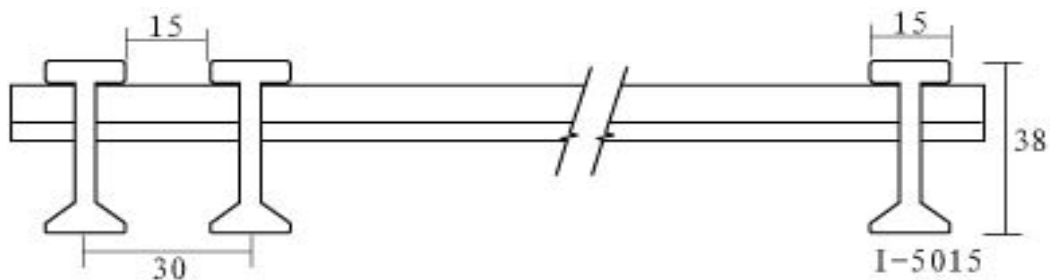
### No.4 I-4015



Height of Bearing Bar:38mm  
Approx Weight: 22.01 Kg/sq.m

Open Ratio: 40%

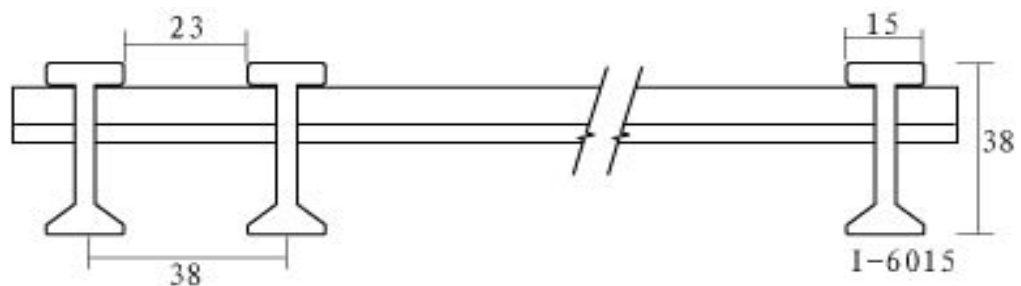
### No.5 I-5015



Height of Bearing Bar:38mm  
Approx Weight: 19.01 Kg/sq.m

Open Ratio: 50%

### No.6 I-6015

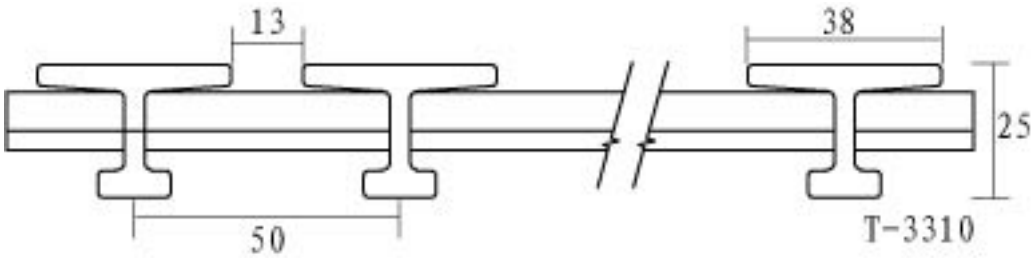


Height of Bearing Bar:38mm  
Approx Weight: 16.01 Kg/sq.m

Open Ratio: 60%

**Pultruded Gratings**

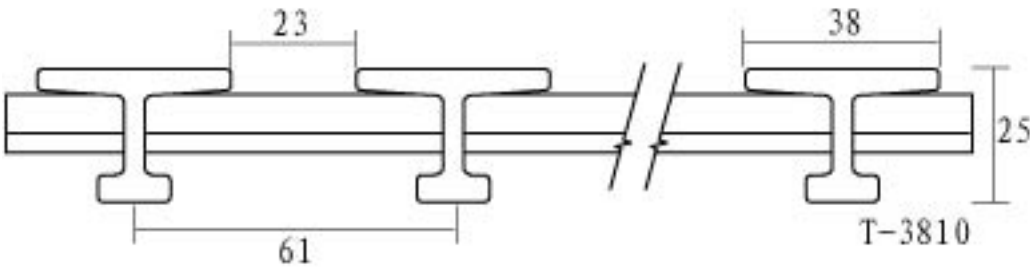
**No.7 T-3310**



Height of Bearing Bar: 25mm  
 Approx Weight: 12.2 Kg/sq.m

Open Ratio: 33%

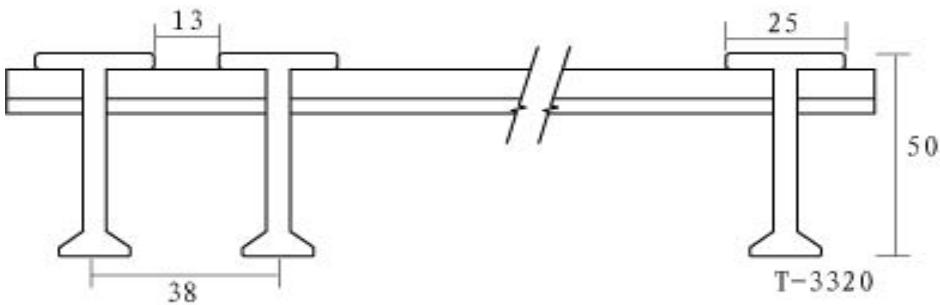
**No.8 T-3810**



Height of Bearing Bar: 25mm  
 Approx Weight: 11.2 Kg/sq.m

Open Ratio: 38%

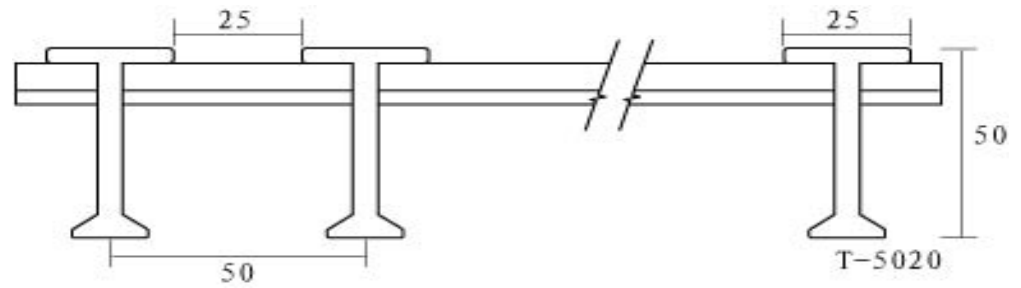
**No.9 T-3320**



Height of Bearing Bar: 50mm  
 Approx Weight: 19.5 Kg/sq.m

Open Ratio: 33%

**No.10 T-5020**

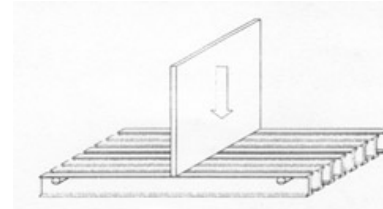


Height of Bearing Bar: 50mm

Open Ratio: 50%

Approx Weight: 15.1 Kg/sq.m

**Concentrated Linear Load (Unit: mm)**



Span (mm)	Type	Deflection (mm)/Unit Weight(Kg)											Max Load
		149	298	447	596	745	1117	1490	2234	2979	4469	5958	
305	25 T-3310	0.102	0.178	0.28	0.356	0.483	0.711	0.939	1.422	1.88	2.819	3.579	15463
	25 T-3810	0.127	0.229	0.36	0.457	0.584	0.864	1.118	1.676	2.26	3.378	4.521	12886
457	25 I-4010					1.02	1.52	2.03	3.05	4.06	5.84	7.62	16593
	25 I-5010					1.02	1.52	2.03	2.54	4.06	5.84	7.62	13808
	25 I-6010					1.52	2.03	2.54	3.81	4.83	7.37	9.65	11067
	38 I-4015			0.25	0.51	0.51	0.76	0.76	1.27	1.52	2.29	2.79	26215
	38 I-5015			0.25	0.51	0.51	0.76	1.02	1.52	1.78	2.54	3.3	21836
	38 I-6015			0.25	0.51	0.51	0.76	1.02	1.52	2.03	3.05	3.81	17472
	25 T-3310	0.279	0.584	0.86	1.143	1.448	2.159	2.87	4.318	5.74	8.61		10309
	25 T-3810	0.356	0.711	1.02	1.372	1.727	2.591	3.454	5.182	6.91			8600
610	25 I-4010				2.03	2.54	3.56	4.57	6.6	8.89	13.21	17.53	12959
	25 I-5010				2.03	2.54	3.56	4.83	7.11	9.4	14.22	18.8	10799
	25 I-6010				2.54	3.05	4.32	5.59	8.38	11.2	16.51	22.1	8639
	38 I-4015		0.51	0.51	0.76	1.02	1.27	1.78	2.29	3.05	4.57	5.84	19661
	38 I-5015		0.51	0.51	0.76	1.02	1.52	1.78	2.79	3.56	5.33	6.86	16385
	38 I-6015		0.51	0.76	1.02	1.02	1.52	2.29	3.3	4.32	6.35	8.38	13108
	25 T-3310	0.66	1.27	1.93	2.62	3.226	4.851	6.452	9.677				7731
	25 T-3810	0.787	1.549	2.34	3.099	3.886	5.817	7.747					6427
	50 T-3320			0.25	0.51	0.51	0.76	1.02	1.27	1.78	2.54	3.3	16876
	50 T-5020		0.25	0.51	0.51	0.76	1.02	1.27	1.78	2.29	3.56	4.57	

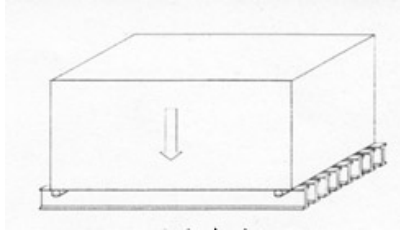
## Pultruded Gratings

Span (mm)	Type	Deflection (mm)/Unit Weight(Kg)											Max Load	
		149	298	447	596	745	1117	1490	2234	2979	4469	5958		
762	25 I-4010			2.54	3.3	4.06	6.1	7.87	11.68	15.8	23.62	31.5	10367	
	25 I-5010			2.54	3.3	4.06	6.09	8.13	12.19	16.3	24.64	32.77	8639	
	25 I-6010			3.3	4.06	5.08	7.37	9.91	14.73	19.8	29.72	39.62	6911	
	38 I-4015	0.25	0.51	0.76	1.02	1.27	2.03	2.54	3.81	5.08	7.62	10.16	15491	
	38 I-5015	0.25	0.76	1.02	1.27	1.52	2.29	3.3	4.83	6.1	9.14	12.19	12899	
	38 I-6015	0.51	0.76	1.27	1.52	2.03	2.79	3.81	5.59	7.62	11.18	14.99	10322	
	25 T-3310	1.194	2.413	3.56	4.775	5.969	8.992							6125
	25 T-3810	1.422	2.896	4.27	5.715	7.163	10.76							5100
	50 T-3320		0.25	0.51	0.51	0.76	1.27	1.52	2.29	3.04	4.32	5.59		10799
	50 T-5020	0.25	0.51	0.76	1.02	1.27	1.52	2.03	3.05	3.81	5.84	7.62		
914	25 I-4010		2.8	4.06	5.59	6.6 <sub>4</sub>	9.91	13.46	20.07	26.9	40.39	53.85	8639	
	25 I-5010		2.54	4.06	5.33	6.86	10.16	13.46	21.08	27.2	40.64	54.1	7194	
	25 I-6010		3.3	4.83	6.35	7.87	11.68	15.75	23.62	31.5	47.24	62.99	5750	
	38 I-4015	0.51	1.02	1.27	1.78	2.29	3.3	4.32	6.35	8.38	12.7	16.76	12705	
	38 I-5015	0.51	1.02	1.52	2.03	2.54	3.56	5.08	7.62	9.91	14.99	20.07	10576	
	38 I-6015	0.51	1.27	2.03	2.54	3.3	4.57	6.1	9.4	12.5	18.8	25.15	8460	
	25 T-3310	2.006	4.013	5.99	8.052	10.06								5024
	25 T-3810	2.413	4.826	7.21	9.627									4180
	50 T-3320		0.51	0.76	1.02	1.27	1.78	2.29	3.56	4.57	7.11	9.4		7492
	50 T-5020	0.51	0.76	1.27	1.52	1.78	2.54	3.3	4.57	6.1	9.14	12.19		
1067	25 I-4010	2.03	4.32	6.35	8.64	10.67	16.01	21.34	32.01	42.7	64	85.09	7358	
	25 I-5010	2.29	4.57	6.86	9.39	11.68	17.53	23.37	34.8	46.5	69.85	92.96	6137	
	25 I-6010	2.79	5.33	8.13	10.67	13.21	19.81	26.42	39.62	52.8	79.25	105.66	4915	
	38 I-4015	0.76	1.52	2.29	2.79	3.56	5.08	6.6	10.16	13.5	20.32	27.18	10635	
	38 I-5015	0.76	1.52	2.29	3.05	3.81	5.59	7.62	11.43	15.2	22.61	30.23	8863	
	38 I-6015	1.02	2.03	3.05	4.06	4.83	7.37	9.65	14.48	19.3	28.96	38.61	7090	

## Pultruded Gratings

Span (mm)	Type	Deflection (mm)/Unit Weight(Kg)											Max Load		
		149	298	447	596	745	1117	1490	2234	2979	4469	5958			
1067	25 T-3310	3.073	6.147	9.22									4214		
	25 T-3810	3.683	7.246	11									3515		
	50 T-3320	0.25	0.76	1.27	1.54	1.78	2.79	3.56	5.33	7.11	9.69	14.22	5511		
	50 T-5020	0.51	1.02	1.78	2.03	2.54	3.81	5.08	7.37	9.91	14.73	19.56			
1219	25 I-4010	2.79	5.84	8.89	11.94	14.73	22.1	29.46	44.2	59.2	88.65	118.11	6420		
	25 I-5010	3.56	7.37	10.9	14.73	18.29	27.43	36.58	54.86	73.2	109.7	146.05	5362		
	25 I-6010	4.06	7.87	11.7	15.49	19.3	28.96	38.61	57.91	77.5	116.1	154.69	4275		
	38 I-4015	1.02	2.03	2.79	3.81	4.57	7.11	9.4	14.22	19.1	28.45	37.85	9086		
	38 I-5015	1.02	2.29	3.56	4.57	5.84	8.89	11.94	17.53	23.4	35.31	46.99	7567		
	38 I-6015	1.52	2.79	4.32	5.59	7.11	10.67	14.22	21.34	28.5	42.67	56.9	6047		
	25 T-3310	4.496	8.992											3620	
	25 T-3810	5.385	10.77												3018
	50 T-3320	0.51	1.02	1.52	1.78	2.29	3.56	4.83	7.37	9.91	14.73	19.56	4215		
	50 T-5020	0.76	1.52	2.29	2.79	3.56	5.08	6.6	10.16	13.5	20.32	27.18			
1372	25 I-4010	4.32	8.38	12.7	17.02	21.34	32	42.67	64	85.3	128	170.69	5690		
	25 I-5010	5.08	10.16	15.2	20.32	25.4	38.35	51.05	76.45	102	153.2	204.22	4737		
	25 I-6010	5.59	11.18	16.5	22.1	27.69	41.66	55.37	83.06	111	166.4		3783		
	38 I-4015	1.27	2.54	3.81	5.08	6.35	9.65	12.95	19.3	25.7	38.61	51.56	7805		
	38 I-5015	1.78	3.3	5.08	6.6	8.38	12.45	16.51	24.89	33	49.78	66.29	6494		
	38 I-6015	2.03	4.06	6.1	7.87	9.91	14.73	19.81	29.46	39.4	59.18	78.74	5198		
	25 T-3310														
	25 T-3810														
	50 T-3320	0.76	1.52	2.29	2.79	3.56	5.33	7.37	10.92	14.5	21.84	29.21	3337		
	50 T-5020	1.02	2.03	3.05	3.81	4.83	7.11	9.65	14.22	19.1	28.45	38.1			
1524	50 T-3320	1.02	1.78	2.79	3.56	4.57	6.86	9.14	13.72	18.3	27.43	36.58	2696		
	50 T-5020	1.52	2.54	3.81	5.08	6.35	9.4	12.45	18.54	24.6	37.08	49.53			

**Uniform Load (Unit: mm)**



Span (mm)	Type	Deflection (mm)/Unit Weight(Kg)												Max Load
		196	293	489	977	1955	2932	3910	4887	7331	9774	16441	19548	
305	25 T-3310			0.076	0.13	0.229	0.356	0.483	0.61	0.889	1.17	1.778	2.362	101460
	25 T-3810			0.076	0.15	0.279	0.432	0.584	0.711	1.041	1.45	2.108	2.819	42276
457	25 I-4010			0.25	0.25	0.76	1.02	1.27	1.52	2.29	3.05	4.57	6.1	72325
	25 I-5010			0.25	0.51	0.76	1.02	1.27	1.78	2.54	3.302	5.08	6.6	60499
	25 I-6010			0.25	0.51	0.76	1.02	1.52	1.78	2.79	3.81	5.59	7.37	48380
	38 I-4015				0.25	0.25	0.51	0.76	0.76	1.27	1.52	2.54	3.3	114645
	38 I-5015				0.25	0.51	0.51	0.76	1.02	1.27	1.778	2.79	3.56	95537
	38 I-6015				0.25	0.25	0.51	0.76	0.76	1.27	1.78	2.54	3.56	76430
	25 T-3310			0.279	0.56	1.069	1.626	2.134	2.692	4.039	5.23	8.103		45076
	25 T-3810			0.33	0.66	1.295	1.956	2.616	3.251	5.004	6.53	9.728		37624
610	25 I-4010			0.51	1.01	1.27	2.79	3.56	4.57	6.86	8.89	13.46		42515
	25 I-5010			0.51	1.27	2.29	3.05	4.06	4.57	5.08	7.62	10.16	15.24	35429
	25 I-6010			0.76	1.27	2.29	3.3	4.57	5.59	8.38	11.18	16.76		28344
	38 I-4015			0.25	0.51	0.76	1.02	1.52	1.78	2.79	3.81	5.59	7.62	64506
	38 I-5015			0.25	0.51	0.76	1.27	1.52	2.03	3.05	4.06	6.1	8.13	53755
	38 I-6015		0.25	0.25	0.51	1.02	1.27	1.78	2.29	3.3	4.57	6.6	8.89	43004
	25 T-3310			0.813	1.63	3.226	4.851	6.452	8.077	12.12				25363
	25 T-3810			0.991	1.96	3.886	5.842	7.772	9.702					21087
	50 T-3320				0.25	0.51	0.51	0.76	1.02	1.52	2.03	3.05	4.06	55368
	50 T-5020			0.25	0.51	0.76	1.02	1.27	1.79	2.29	3.05	4.83	6.35	

## Pultruded Gratings

Span (mm)	Type	Deflection (mm)/Unit Weight(Kg)												Max Load	
		196	293	489	977	1955	2932	3910	4887	7331	9774	16441	19548		
762	25 I-4010			1.27	2.54	4.32	6.01	8.13	9.91	15				27171	
	25 I-5010			1.27	2.54	4.32	6.35	8.38	10.41	15.8				22479	
	25 I-6010			1.52	2.79	5.08	7.37	9.65	12.19					18130	
	38 I-4015		0.25	0.51	0.76	1.52	2.03	2.79	3.3	5.08	6.86	10.16	13.72	40609	
	38 I-5015			0.51	1.02	1.78	2.54	3.3	4.06	6.1	8.13	12.19	16.26	33866	
	38 I-6015		0.25	0.51	1.02	2.03	3.05	3.81	4.83	7.37	9.65	14.73		27073	
	25 T-3310			1.854	3.71	7.468	11.23	14.961							16053
	25 T-3810			2.261	4.52	8.966									13414
	50 T-3320			0.25	0.51	0.76	1.02	1.52	1.78	2.79	3.81	5.59	7.62		44275
	50 T-5020			0.25	0.51	1.02	1.52	2.03	2.54	3.81	4.83	7.37	9.91		
914	25 I-4010		1.52	2.54	4.57	8.38	12.19	16.26						18863	
	25 I-5010		1.52	2.54	4.83	8.89	12.95	17.27						15638	
	25 I-6010		1.78	3.05	5.84	10.92	16.26							12559	
	38 I-4015	0.51	0.51	0.76	1.52	2.79	4.06	5.33	6.86	10.2	13.46			27757	
	38 I-5015	0.51	0.51	1.02	1.78	3.3	4.57	6.1	7.87	11.7	15.49			23164	
	38 I-6015	0.51	0.76	1.27	2.29	4.06	5.84	7.87	9.91	14.7				18570	
	25 T-3310			3.785	7.52	15.04									10971
	25 T-3810			4.521	9.02										9158
	50 T-3320			0.51	0.76	1.52	2.29	3.05	3.81	5.59	7.37	11.18	14.99		36895
	50 T-5020			0.51	1.02	2.03	2.79	3.81	4.57	6.86	9.4	13.97			
1067	25 I-4010	1.78	2.54	4.32	8.38	16								13781	
	25 I-5010	2.03	2.79	4.57	8.89	17.27								11484	
	25 I-6010	2.29	3.56	5.59	10.69									8796	
	38 I-4015	0.51	0.76	1.52		5.08	7.62	10.16	12.7					19938	
	38 I-5015	0.76	1.02	1.78	3.05	6.1	9.14	12.19	15.24					16620	
	38 I-6015	1.02	1.27	2.03	4.06	7.62	11.43	15.24						13292	

## Pultruded Gratings

Span (mm)	Type	Deflection (mm)/Unit Weight(Kg)											Max Load	
		196	293	489	977	1955	2932	3910	4887	7331	9774	16441		19548
1219	25 T-3310			5.84	13.4									
	25 T-3810			8.026										
	50 T-3320	0.25	0.51	0.76	1.27	2.54	4.06	5.33	6.6	9.91	13.21			31618
	50 T-5020	0.51	0.51	1.02	2.03	3.81	5.59	7.62	9.4	14.2				
1219	25 I-4010	3.05	4.57	7.62	14.48									10507
	25 I-5010	3.56	5.08	8.64	16.51									8796
	25 I-6010	3.81	5.59	9.14	17.78									6988
	38 I-4015	1.02	1.52			8.64	12.95							14905
	38 I-5015	1.27	1.78	2.79	5.59	10.69	16							12422
	38 I-6015	1.52	2.29	3.56	6.6	12.95								9920
	25 T-3310			11.227										5938
	25 T-3810													
	50 T-3320	0.51	0.76	1.27	2.29	4.57	6.86	9.4	11.68					27659
	50 T-5020	0.76	1.02	1.78	3.3	6.35	9.4	12.45	15.489					
1372	25 I-4010	4.826	7.366	11.9										8308
	25 I-5010	5.59	8.38	13.7										6842
	25 I-6010	6.35	9.4	15										5522
	38 I-4015	1.52				13.97								11386
	38 I-5015	1.78	2.79	4.57	8.64	16.76								9480
	38 I-6015	2.54	3.56	5.84	11.18									7575
	25 T-3310													
	25 T-3810													
	50 T-3320	0.76	1.27	2.03	3.81	7.37	10.92	14.73						24581
	50 T-5020	1.27	1.78	2.79	5.08	9.91	14.99							
1524	50 T-3320	1.27	1.79	2.79	5.08	9.91	14.99							22137
	50 T-5020	1.52	2.29	3.81	6.86	13.46								

## Specification

### - Available Resin Types For Molded Grating

Type	Resin Base	Description	Corrosion Resistance	Flame Spread Rating
V	Vinyl Ester	Superior corrosion resistance and fire retardant	Excellent	Class I(25)or less
I	Isophthalic Polyester	Chemical proof corrosion resistance and fire retardant	Very Good	Class I(25)or less
O	Orthophthalic Polyester	Good corrosion resistance and fire retardant	Good	Class I(25)or less

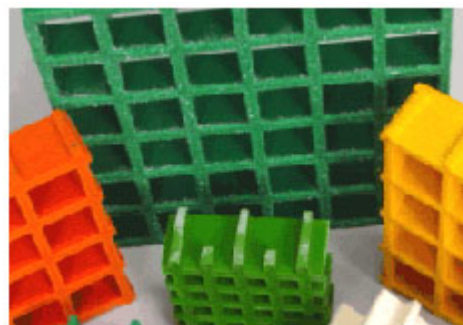
Food grade resins (Isophthalic Polyester) for food processing industry, and Flame retardant resins with Spread Rating of Class 1 (10) or less is available upon request. In addition, static resistant resin and phonetic resin are also available upon the special request.

### -Grating Parameters

Panel Thickness (mm)	Mesh (mm)	Panel Size (mm)×(mm)	Bar Thickness (mm)	Open Area %	Wt./Sq.Ft (Lbs.)	Panel Weight (Lbs.)
1.0" (25)	1.5"×1.5"(38×38)	4"×12"(1220×3660)	1/4"(6.4)	70%	2.4(11.6Kg/m2)	116(52Kg)
	1.5"×1.5"(38×38)	4"×8"(1220×2440)	1/4"(6.4)	70%	2.4(11.6Kg/m2)	77(35Kg)
	1.5"×1.5"(38×38)	3"×10"(915×3050)	1/4"(6.4)	70%	2.4(11.6Kg/m2)	72(33Kg)
	1.5"×1.5"(25×100)	3"×10"(915×3050)	1/4"(6.4)	70%	2.4(11.6Kg/m2)	72(33Kg)
1.5" (38)	1.5"×1.5"(38×38)	4"×12"(1220×3660)	1/4"(6.4)	70%	3.8(18.4Kg/m2)	182(82Kg)
	1.5"×1.5"(38×38)	4"×8"(1220×2440)	1/4"(6.4)	70%	3.8(18.4Kg/m2)	121(55Kg)
	1.5"×1.5"(38×38)	3"×10"(915×3050)	1/4"(6.4)	70%	3.8(18.4Kg/m2)	114(52Kg)
2.0" (50)	2.0"×2.0"(50×50)	4"×12"(1220×3660)	5/16"(8.0)	70%	4.58(22.4Kg/m2)	220(100Kg)

All panels have five surface choices: concave top, grit top, plain top, smooth top, and covered top, Standard color:

green,yellow,grey,dark grey and orange .Custom color, thickness and size are available upon request.



## Catalogue of Molded Gratings

SM= Square Mesh

RM= Rectangular Mesh

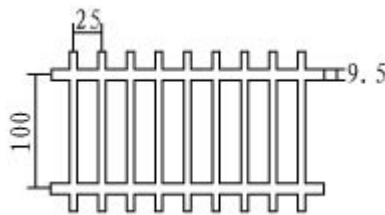
RMH= Rectangular Mesh for Heavy Duty

RMS= Rectangular Mesh for Standard Load

### 1. 25X25X100 RMS



Top view



Front View



Mesh Size (mm): 25X25X100

Bearing Bar Thickness (mm): 6.4

Bearing Bar Center to Center (mm):25

Open Ratio: 68%

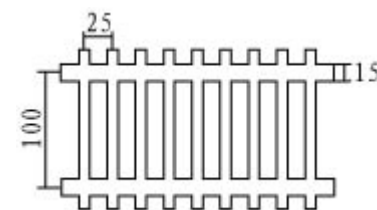
Approx Weight (Kg/sq.m): 13.83

Standard Size: 1220x3660, 1220x2440, 915x3050

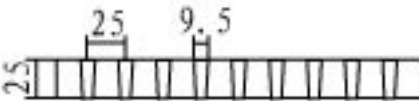
### 2. 25X25X100 RMH



Top view



Front View



Mesh Size (mm): 25X25X100

Bearing Bar Thickness (mm): 9.5

Bearing Bar Center to Center (mm):25

Open Ratio: 52%

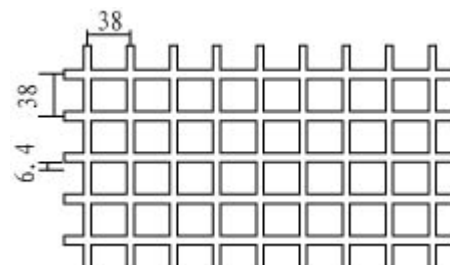
Approx Weight (Kg/sq.m): 19.3

Standard Size: 1220x3660, 1220x2440, 915x3050

### 3. 25X38 SM



Top view



Front View



Mesh Size (mm): 25X38

Bearing Bar Thickness (mm): 6.4

Bearing Bar Center to Center (mm):38

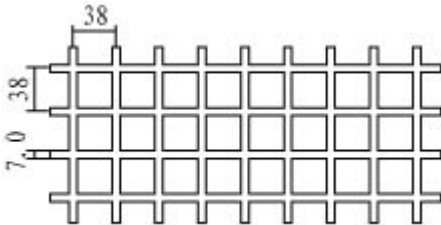
Open Ratio: 68%

Approx Weight (Kg/sq.m): 12.3

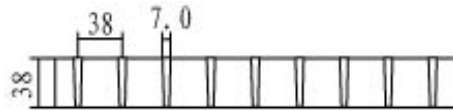
Standard Size: 1220x4000, 1220x3660, 1220x2440, 915x3050

## 4. 38X38 SM

Top view



Front View



Mesh Size (mm): 38X38

Bearing Bar Thickness (mm): 7

Bearing Bar Center to Center (mm):38

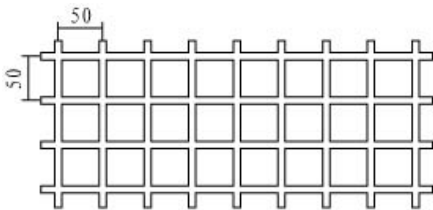
Open Ratio: 68%

Approx Weight (Kg/sq.m): 19.5

Standard Size: 1220x4000, 1220x3660, 1220x2440, 915x3050, 1524x3050, 1524x4000

## 5. 50X50 SM

Top view



Front View



Mesh Size (mm): 50X50

Bearing Bar Thickness (mm): 8

Bearing Bar Center to Center (mm):50

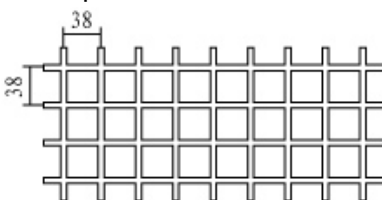
Open Ratio: 71%

Approx Weight (Kg/sq.m): 23.51

Standard Size: 1220x4000, 1220x3660, 1220x2440, 915x3050

## 6. 13X38 SM

Top view



Front View



Mesh Size (mm): 13X38

Bearing Bar Thickness (mm): 6

Bearing Bar Center to Center (mm):38

Open Ratio: 87%

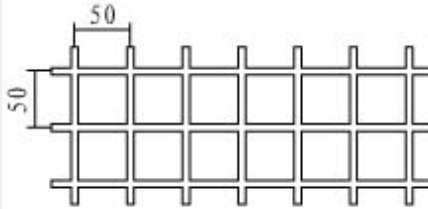
Approx Weight (Kg/sq.m): 6

Standard Size: 1220x3660, 1220x2440, 915x3050

## 7. 13X50 SM



Top view



Front View



Mesh Size (mm): 13X50

Bearing Bar Thickness (mm): 6.4

Bearing Bar Center to Center (mm):50

Open Ratio: 82%

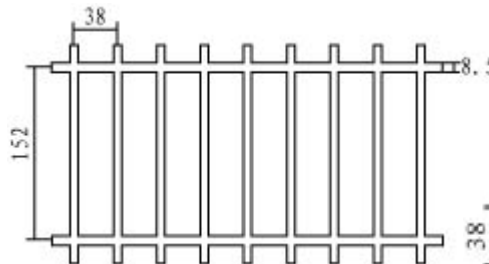
Approx Weight (Kg/sq.m): 5.77

Standard Size: 1220x3660, 1220x2440, 915x3050

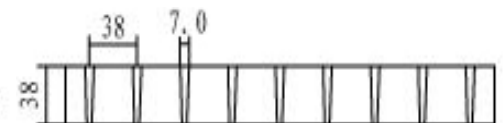
## 8. 38X38X152 RM



Top view



Front View



Mesh Size (mm): 38X38X152

Bearing Bar Thickness (mm):7

Bearing Bar Center to Center (mm):38

Open Ratio: 67%

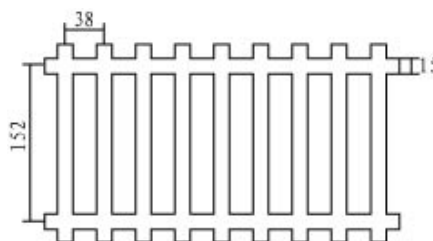
Approx Weight (Kg/sq.m): 15.93

Standard Size: 1220x3660

## 9. 38X38X152 RM



Top view



Front View



Mesh Size (mm): 38X38X152

Bearing Bar Thickness (mm):15

Bearing Bar Center to Center (mm):38

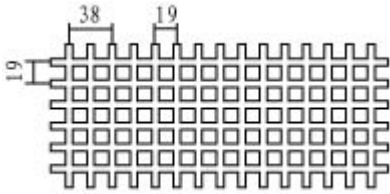
Open Ratio: 67%

Approx Weight (Kg/sq.m): 18.62

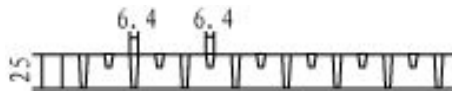
Standard Size: 1220x3660

## 10. 25X19 SM

Top view



Front View



Mesh Size (mm): 25X19

Bearing Bar Thickness (mm):6.4

Bearing Bar Center to Center (mm):19

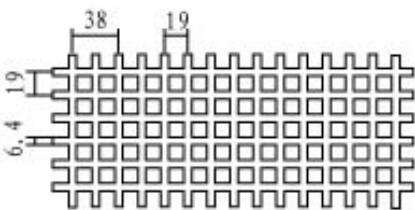
Open Ratio: 42%

Approx Weight (Kg/sq.m): 16.81

Standard Size: 1220x4000, 1220x3660, 1220x2440, 915x3050 Double-Deck

## 11. 38X19 SM

Top view



Front View



Mesh Size (mm): 38X19

Bearing Bar Thickness (mm):6.4

Bearing Bar Center to Center (mm):19

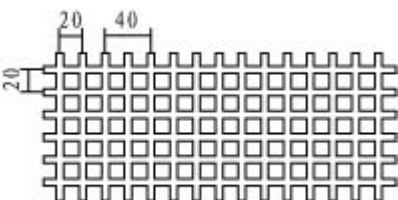
Open Ratio: 42%

Approx Weight (Kg/sq.m): 23.51

Standard Size: 1220x4000, 1220x3660, 1220x2440, 915x3050 Double-Deck

## 12. 30X20 SM

Top view



Front View



Mesh Size (mm): 30X20

Bearing Bar Thickness (mm):6.4

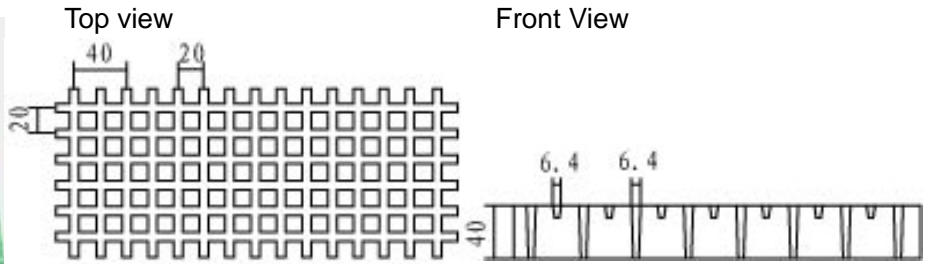
Bearing Bar Center to Center (mm):20

Open Ratio: 42%

Approx Weight (Kg/sq.m): 18.03

Standard Size: 1007x3007, 1007x4007 Double-Deck

## 13. 40X20 SM



Mesh Size (mm): 40X20

Bearing Bar Thickness (mm):6.4

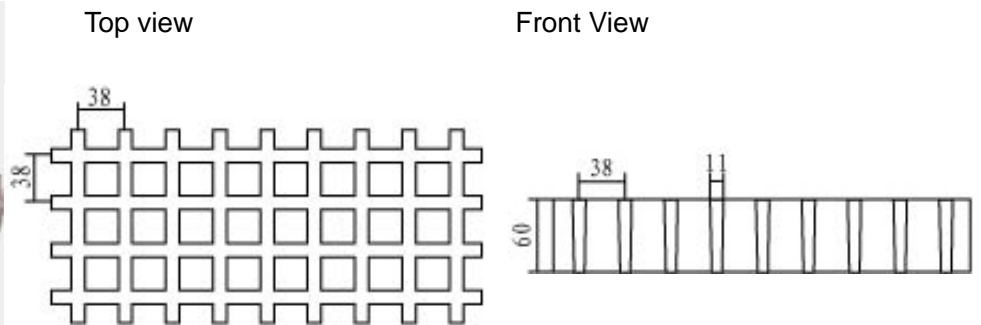
Bearing Bar Center to Center (mm):20

Open Ratio: 42%

Approx Weight (Kg/sq.m): 23.7

Standard Size: 1007x3007, 1007x4007 Double-Deck

## 14. 60X38 SM



Mesh Size (mm): 60X38

Bearing Bar Thickness (mm):11

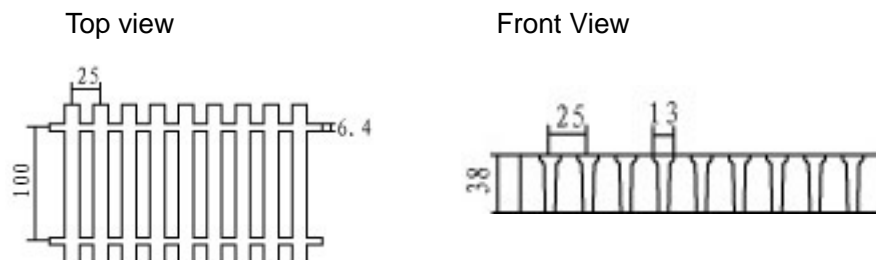
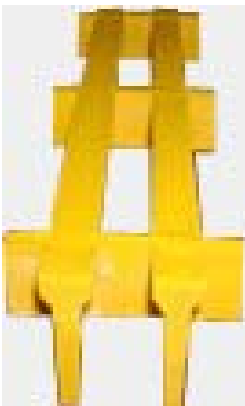
Bearing Bar Center to Center (mm):38

Open Ratio: 58%

Approx Weight (Kg/sq.m): 50.43

Standard Size: 1220x4000, 1220x3660, 1220x2440, 915x3050 Heavy Duty

## 15. 38X25X100 RM



Mesh Size (mm): 38X25X100

Bearing Bar Thickness (mm):13

Bearing Bar Center to Center (mm):25

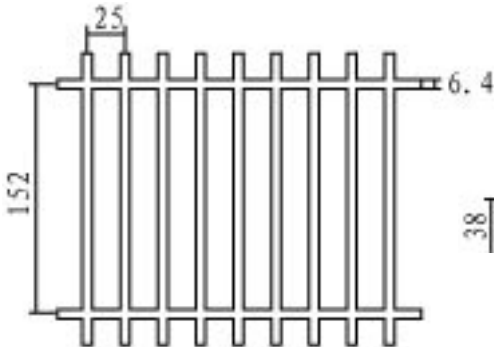
Open Ratio: 46%

Approx Weight (Kg/sq.m): 21.01

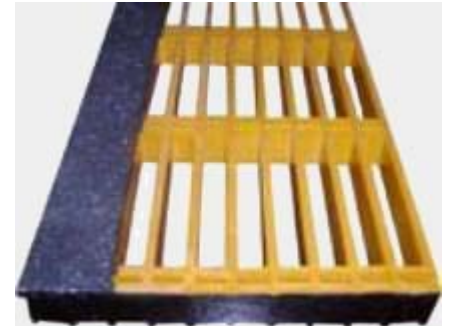
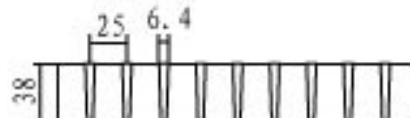
Standard Size: 1220x3660

## 16. 38X25X152 RM

Top view



Front View



Mesh Size (mm): 38X25X152

Bearing Bar Thickness (mm):6.4

Bearing Bar Center to Center (mm):25

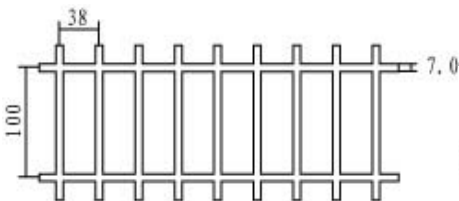
Open Ratio: 56%

Approx Weight (Kg/sq.m): 23.02

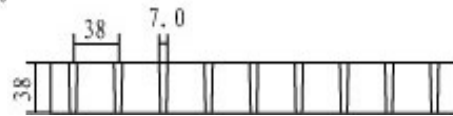
Standard Size: 565x3050 Stair Way

## 17. 38X38X100 RM

Top view



Front View



Mesh Size (mm): 38X38X100

Bearing Bar Thickness (mm):7

Bearing Bar Center to Center (mm):38

Open Ratio: 62%

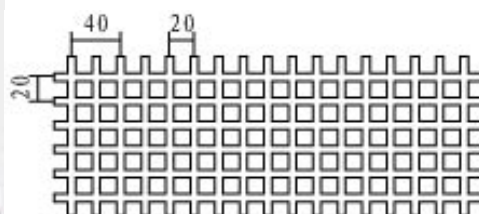
Approx Weight (Kg/sq.m): 15.2

Standard Size: 1220x3660

## 18. 14X20 SM



Top view



Front View



Mesh Size (mm): 14X20

Bearing Bar Thickness (mm):7

Bearing Bar Center to Center (mm):20

Open Ratio: 42%

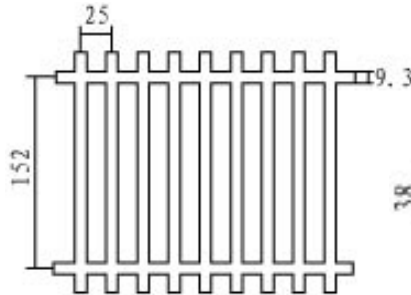
Approx Weight (Kg/sq.m): 10

Standard Size: 1247x4047 Double-Deck

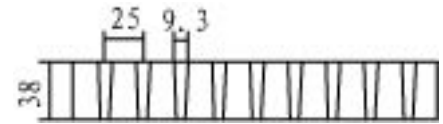
## 19. 38X25X152 RM



Top view



Front View



Mesh Size (mm): 38X25X152

Bearing Bar Thickness (mm):9.3

Bearing Bar Center to Center (mm):25

Open Ratio: 56%

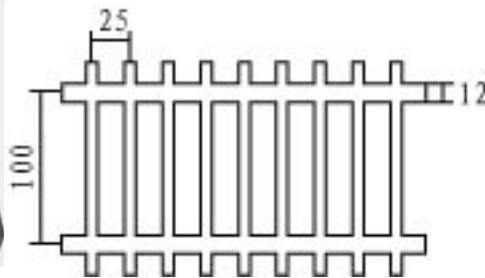
Approx Weight (Kg/sq.m): 22.43

Standard Size: 1220x3660, 1220x2440, 915x3050

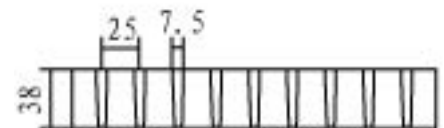
## 20. 38X25X100 RM



Top view



Front View



Mesh Size (mm): 38X25X100

Bearing Bar Thickness (mm):7.5

Bearing Bar Center to Center (mm):25

Open Ratio: 68%

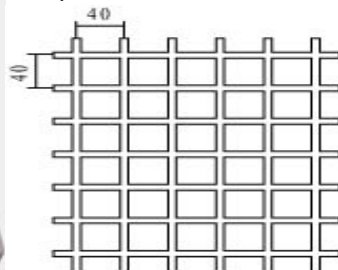
Approx Weight (Kg/sq.m): 22.43

Standard Size: 1220x3660, 1220x2440, 915x3050

## 21. 40X40 SM



Top view



Front View



Mesh Size (mm): 40X40

Bearing Bar Thickness (mm):7

Bearing Bar Center to Center (mm):40

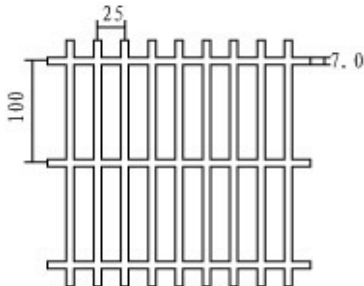
Open Ratio: 67%

Approx Weight (Kg/sq.m): 19.2

Standard Size: 1007x3007

## 22. 25X25X100 RM

Top view



Front View



Mesh Size (mm): 25X25X100

Bearing Bar Thickness (mm):7

Bearing Bar Center to Center (mm):25

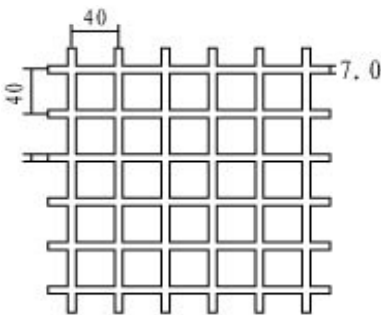
Open Ratio: 67%

Approx Weight (Kg/sq.m): 13

Standard Size: 1007x3007

## 23. 25X40 SM

Top view



Front View



Mesh Size (mm): 25X40

Bearing Bar Thickness (mm):7

Bearing Bar Center to Center (mm):40

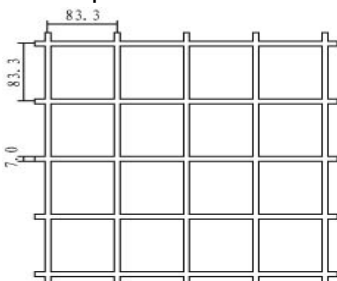
Open Ratio: 67%

Approx Weight (Kg/sq.m): 12

Standard Size: 1007x3007

## 24. 40X83.3 SM

Top view



Front View



Mesh Size (mm): 40X83.3

Bearing Bar Thickness (mm):7

Bearing Bar Center to Center (mm):83.3

Open Ratio: 83%

Approx Weight (Kg/sq.m): 9.5

Standard Size: 1007x3007

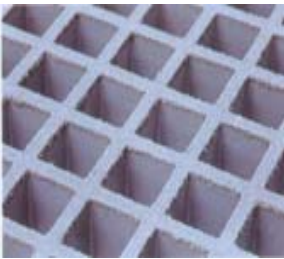
## Surface Choice



### S-C

**Surface Type:** Concave Top

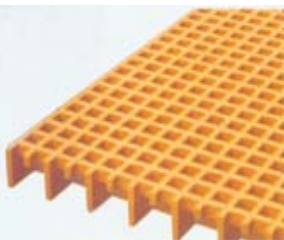
**Application:** anti-slip



### S-G

**Surface Type:** Gritted Top

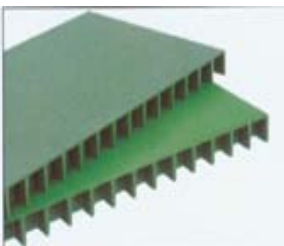
**Application:** excellent anti-slip



### S-Mini

**Surface Type:** Mini Mesh

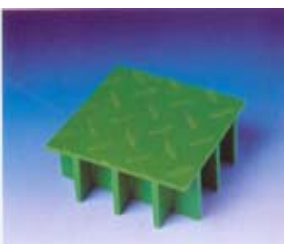
**Application:** anti leakage of small tools



### S-Cover

**Surface Type:** Gritted Covered Top

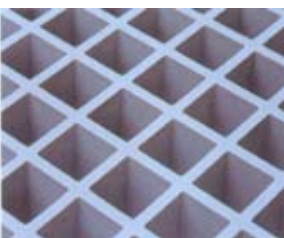
**Application:** excellent anti-slip, protecting against Leakage & Volatilization



### S-D

**Surface Type:** Check Plate Covered Top

**Application:** excellent anti-slip, protecting against Leakage & Volatilization, better appearance

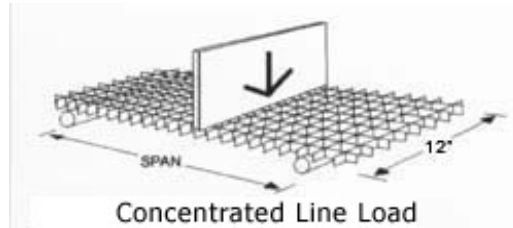


### S-S

**Surface Type:** Frosted Surface

**Application:** decoration, door, ceiling

## Concentrated linear Load

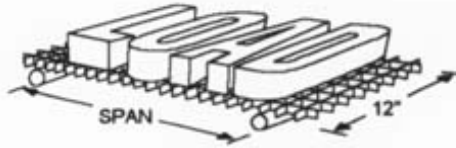


Span (mm)	Mesh Size	Deflection (mm)/Unit Weight(Kg)						Max Load
		75	149	298	447	596	745	
305	25x38 SM							
	38x38 SM	0.279	0.356	0.483	0.61	0.762	0.889	17116
	50x50 SM	0.279	0.305	0.406	0.483	0.635	1.041	21727
	25x25x100 RMS	0.33	0.483	0.737	0.991	1.27	1.52	9442
	25x25x100 RMH	0.381	0.483	0.711	0.94	1.168	1.372	9488
	38x19 Mini	0.33	0.686	1.346	2.057	2.692		
	30x20 Mini							
457	38x38x152 RM	0.051	0.102	0.229	0.381		0.635	
	25x38 SM	0.559	1.143	2.159	3.073	4.115	4.75	3910
	38x38 SM							
	50x50 SM							
	25x25x100 RMS							
	25x25x100 RMH							
	38x19 Mini	0.737	1.473	2.946	4.42	5.893		
30x20 Mini		0.432	0.864	1.27	1.702	2.159		
610	38x38x152 RM	0.178	0.381	0.737	1.168		1.829	
	25x38 SM	0.864	1.702	3.505	5.156	6.706	8.179	2924
	38x38 SM	0.356	0.66	1.245	1.85	2.464	3.073	8718
	50x50 SM	0.356	0.508	0.813	1.128	1.753	3.327	11713
	25x25x100 RMS	0.864	1.727	3.454	5.182	6.909	8.636	4305
	25x25x100 RMH	0.813	1.499	2.819	4.166	5.512	6.833	4643
	38x19 Mini	0.864	1.702	3.404	5.105	6.807		
30x20 Mini		1.092	2.184	3.277	4.369	5.461		
762	38x38x152 RM	0.381	0.813	1.651	2.388		3.861	
	25x38 SM							
	38x38 SM							
	50x50 SM							
	25x25x100 RMS	1.397	2.718	5.105	7.163	9.55	11.938	3589
	25x25x100 RMH	1.041	2.108	4.267	6.401	8.534	10.668	4035
	38x19 Mini	1.068	2.134	4.267	6.401	8.534		
30x20 Mini								
38x38x152 RM	0.66	1.346	2.692	4.013		6.691		

**Concentrated linear Load**

Span (mm)	Mesh Size	Deflection (mm)/Unit Weight(Kg)						Max Load
		75	149	298	447	596	745	
914	25x38 SM	2.896	5.918	12.116	18.44			1948
	38x38 SM	0.864	1.803	3.683	5.563	7.417	9.296	5817
	50x50 SM	0.508	1.118	2.235	3.2	5.156	10.058	7780
	25x25x100 RMS	2.413	4.724	8.814	12.369	16.51	20.625	3216
	25x25x100 RMH	1.27	2.743	5.689	8.636	11.557	14.503	3362
	38x19 Mini	1.422	2.845	2.108	5.689	8.534		
	30x20 Mini		3.023	6.248	9.627	12.903	15.977	
	38x38x152 RM	1.067	2.108	4.166	6.401		10.719	
1067	25x38 SM	4.597	9.398	19.253				1617
	38x38 SM	1.397	2.87	5.842	8.814	11.786	14.757	4291
	50x50 SM	0.584	1.295	2.718	4.14	6.985	14.122	6636
	25x25x100 RMS							
	25x25x100 RMH							
	38x19 Mini	1.88	3.759	7.518	11.278			
	30x20 Mini		5.105	10.287	15.443	20.599		
	38x38x152 RM	1.473	2.997	6.071	9.093			
1219	25x38 SM	5.715	11.633					1461
	38x38 SM	2.261	4.749	9.677	14.63	19.583		3755
	50x50 SM	0.914	1.93	3.937	5.918	9.957		5834
	25x25x100 RMS							
	25x25x100 RMH							
	38x19 Mini	2.515	5.029	10.058	15.087			
	30x20 Mini		7.772	15.646	23.47			
	38x38x152 RM	2.337	4.699	9.449	13.767			
1524	25x38 SM							
	38x38 SM	4.166	8.66	17.678				3004
	50x50 SM							
	25x25x100 RMS							
	25x25x100 RMH							
	38x19 Mini							
	30x20 Mini							
	38x38x152 RM							

## Uniform Load



UNIFORMED LOAD - 12" WIDE

Span (mm)	Mesh Size	Deflection (mm)/Unit Weight(Kg)							
		244	489	977	1466	1955	2444	3665	4887
305	25x38 SM								
	38x38 SM	0.254	0.305	0.381	0.457	0.559	0.635	0.838	
	50x50 SM	0.254	0.279	0.33	0.381	0.432	0.483	0.737	
	25x25x100 RMS	0.279	0.381	0.533	0.711	0.864	1.041		1.905
	25x25x100 RMH	0.33	0.406	0.533	0.686	0.813	0.965		1.651
	38x19 Mini	0.432	0.838	1.676	2.515	3.353			8.458
	30x20 Mini								
	38x38x152 RM	0.0762	0.152	0.33	0.483		0.787		1.549
457	25x38 SM	0.66	1.092	1.93	2.769	3.607	4.47	6.579	
	38x38 SM								
	50x50 SM								
	25x25x100 RMS								
	25x25x100 RMH								
	38x19 Mini	0.686	1.372	2.769	4.14	5.537			
	30x20 Mini		0.381	0.737					
	38x38x152 RM	0.229	0.483	0.965	1.448		2.413		4.851
610	25x38 SM	1.118	2.108	4.14	6.172	8.179	10.211	15.265	
	38x38 SM	0.432	0.813	1.549	2.311	3.073	3.8354	5.74	
	50x50 SM	0.381	0.584	0.965	1.372	1.753	2.134	4.115	
	25x25x100 RMS	0.914	1.854	3.683	5.537	7.391	9.22		18.46 6
	25x25x100 RMH	0.991	1.829	3.505	5.156	6.833	9.017		16.85 7
	38x19 Mini	1.067	2.134	4.242	6.375	8.484			
	30x20 Mini		1.346	2.515					
	38x38x152 RM	0.483	0.965	1.905	2.87		4.775		9.449
762	25x38 SM	2.667	5.387	10.82	16.281	21.717			
	38x38 SM								
	50x50 SM								
	25x25x100 RMS								
	25x25x100 RMH								
	38x19 Mini	1.676	3.353	6.706	10.058	13.411			
	30x20 Mini								
	38x38x152 RM	0.991	1.981	3.962	5.944		9.855		

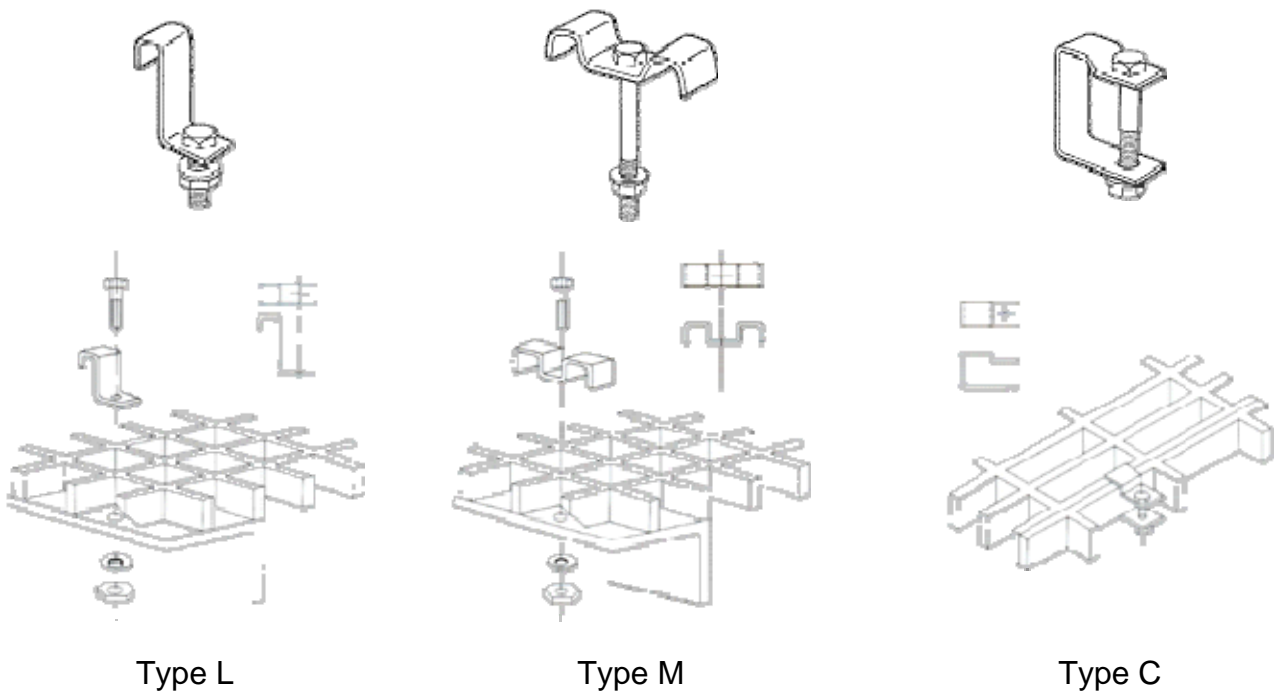
**Uniform Load**

Span (mm)	Mesh Size	Deflection (mm)/Unit Weight(Kg)							
		244	489	977	1466	1955	2444	3665	4887
<b>914</b>	25x38 SM	5.537	11.176	21.717					
	38x38 SM	1.702	3.454	6.959	10.465	13.97	17.475		
	50x50 SM	1.194	2.108	3.937	5.766	7.595	9.449	18.593	
	25x25x100 RMS	3.632	6.6	12.573	18.542	24.486			
	25x25x100 RMH	2.565	5.309	10.82	16.332	21.869			
	38x19 Mini	2.667	5.359	10.693	16.027				
	30x20 Mini		5.588	10.668					
	38x38x152 RM	1.803	3.632	7.239	10.871				
<b>1067</b>	25x38 SM	10.287	20.752						
	38x38 SM	3.149	6.401	12.903	19.406				
	50x50 SM	1.448	2.997	6.096	9.22	12.344	15.443		
	25x25x100 RMS	8.077	14.884						
	25x25x100 RMH	4.801	9.91	20.117					
	38x19 Mini	4.089	8.179	16.358					
	30x20 Mini		10.643	21.057					
	38x38x152 RM	6.604	6.401	12.827					
<b>1219</b>	25x38 SM								
	38x38 SM	5.969	12.167	24.511					
	50x50 SM	2.413	4.928	9.957	14.961	19.989			
	25x25x100 RMS								
	25x25x100 RMH								
	38x19 Mini	6.274	12.548						
	30x20 Mini		17.78						
	38x38x152 RM	5.283	10.439						
<b>1524</b>	25x38 SM								
	38x38 SM								
	50x50 SM	5.944	12.065	24.333					
	25x25x100 RMS								
	25x25x100 RMH								
	38x19 Mini								
	30x20 Mini								
	38x38x152 RM								

## Installation of Gratings

Installation recommendation—whenever possible provided for a minimum of 1-1/2" (40mm) bearing support at all grating support points. Hold down clips should be used at the rate of one clip for every 6 square feet (0.56square meters) of grating minimum, or at least 4 clips for any square or rectangular piece, or at least 3 for a triangular piece.

## Molded Grating Installation Accessories



Type L Clips-For use in securing grating to support frames.

Type M Hold Down Clips-Designed to fix grating on support structure & prevent it from turning in all four directions.

Type C Clips-Applied to connect two adjacent grating bars.

## Pultruded Grating Installation Accessories

