



*We provide more than composite*

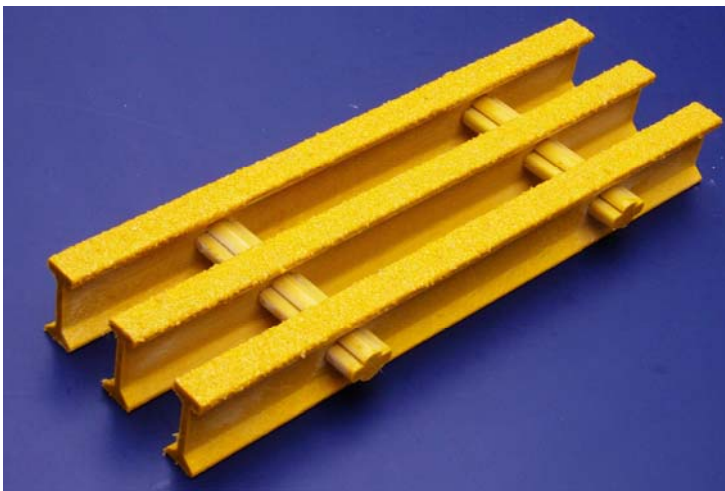
**Grating**

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[Http://www.unicomposite.com](http://www.unicomposite.com)  
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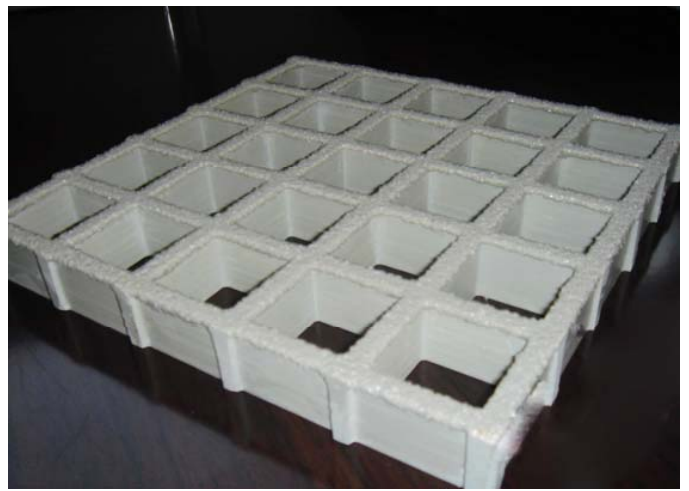
## General introduction

Unicomposite is specialized in the fiberglass reinforced plastic (FRP) gratings.

We can supply two kinds of gratings: pultruded gratings and molded gratings.



**Pultruded gratings**



**Molded gratings**

## Features of our gratings

Light weight

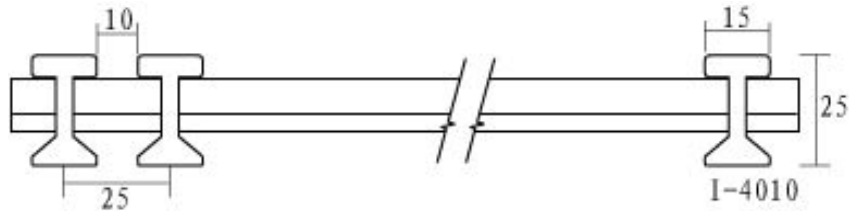
High strength and heavy load Various colors and sizes Easy installation

Long life span

Good Performance in the corrosion and chemical environment.

## **1. Pultruded gratings**

### **No.1 I-4010**



Open Ratio: 40%

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

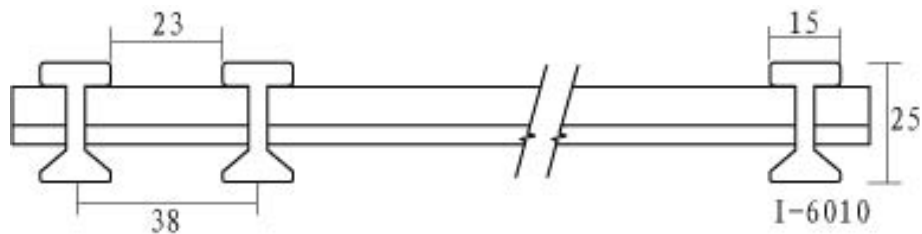
### **No.2 I-5010**



Open Ratio: 50%

Height of Bearing Bar : 25 m m Approx Weight: 14.2

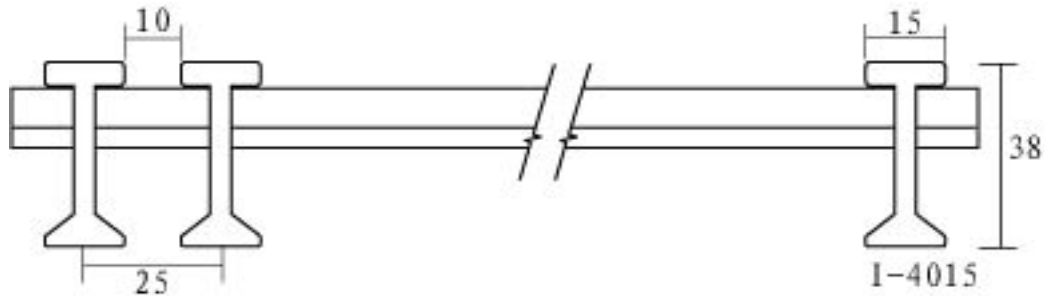
### **No.3 I-6010**



Open Ratio: 60%

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

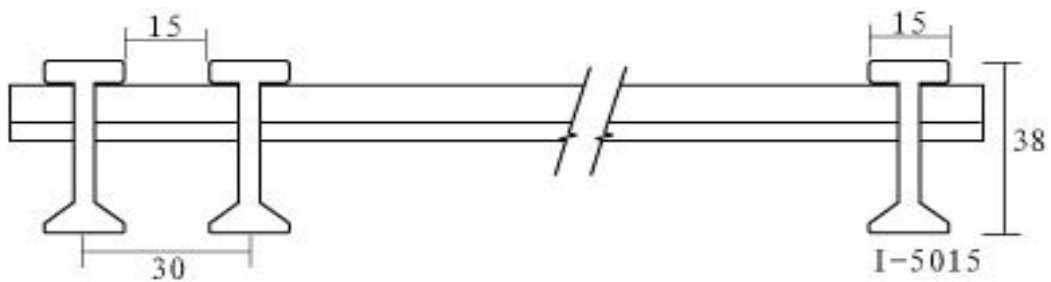
**No.4 I-4015**



Open Ratio: 40%

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

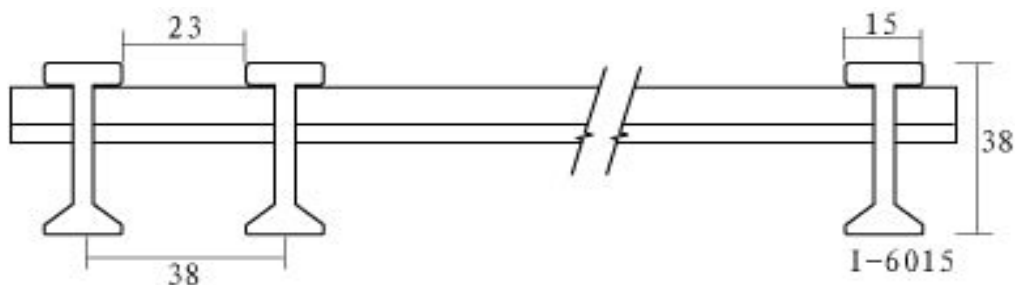
**No.5 I-5015**



Open Ratio: 50%

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

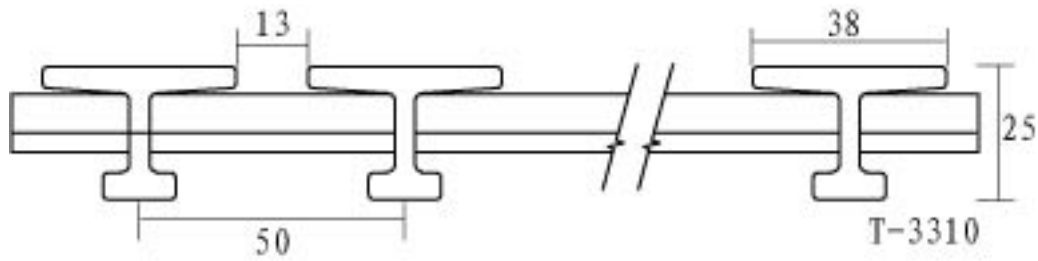
**No.6 I-6015**



Open Ratio: 60%

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

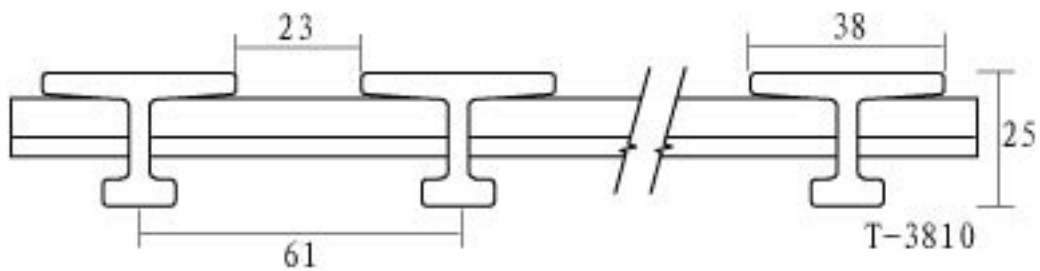
**No.7 T-3310**



Open Ratio: 33%

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

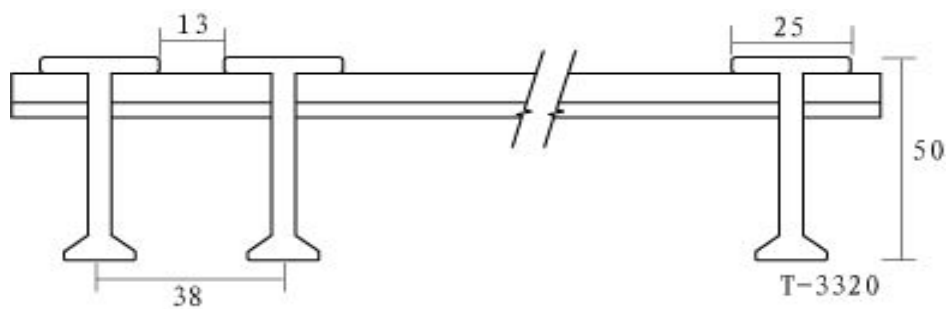
**No.8 T-3810**



Open Ratio: 38%

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

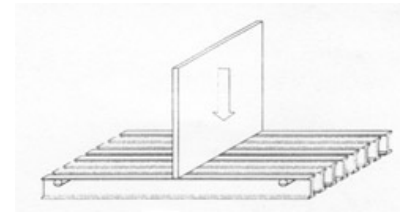
**No.9 T-3320**



Open Ratio: 33%

Height of Bearing Bar: 50mm Approx Weight: 19.5 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 I4010			2.54	3.3	4.06	6.1	7.87	11.68	15.8	23.62	31.5	10367
	25 I5010			2.54	3.3	4.06	6.09	8.13	12.19	16.3	24.64	32.77	8639
	25 I6010			3.3	4.06	5.08	7.37	9.91	14.73	19.8	29.72	39.62	6911
	38 I4015	0.25	0.51	0.76	1.02	1.27	2.03	2.54	3.81	5.08	7.62	10.16	15491
	38 I5015	0.25	0.76	1.02	1.27	1.52	2.29	3.3	4.83	6.1	9.14	12.19	12899
	38 I6015	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 I4010		2.8	4.06	5.59	6.64	9.91	13.46	20.07	26.9	40.39	53.85	8639
	25 I5010		2.54	4.06	5.33	6.86	10.16	13.46	21.08	27.2	40.64	54.1	7194
	25 I6010		3.3	4.83	6.35	7.87	11.68	15.75	23.62	31.5	47.24	62.99	5750
	38 I4015	0.51	1.02	1.27	1.78	2.29	3.3	4.32	6.35	8.38	12.7	16.76	12705
	38 I5015	0.51	1.02	1.52	2.03	2.54	3.56	5.08	7.62	9.91	14.99	20.07	10576
	38 I6015	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 I4010	2.03	4.32	6.35	8.64	10.67	16.01	21.34	32.01	42.7	64	85.09	7358
	25 I5010	2.29	4.57	6.86	9.39	11.68	17.53	23.37	34.8	46.5	69.85	92.96	6137
	25 I6010	2.79	5.33	8.13	10.67	13.21	19.81	26.42	39.62	52.8	79.25	105.66	4915
	38 I4015	0.76	1.52	2.29	2.79	3.56	5.08	6.6	10.16	13.5	20.32	27.18	10635
	38 I5015	0.76	1.52	2.29	3.05	3.81	5.59	7.62	11.43	15.2	22.61	30.23	8863
	38 I6015	1.02	2.03	3.05	4.06	4.83	7.37	9.65	14.48	19.3	28.96	38.61	7090

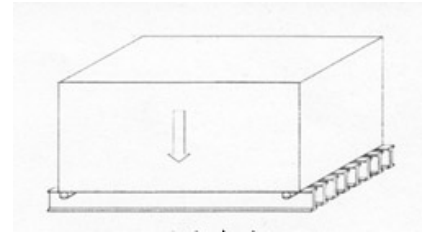


# Pultruded Gratings

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 I4010			1.27	2.54	4.32	6.01	8.13	9.91	15				27171
	25 I5010			1.27	2.54	4.32	6.35	8.38	10.41	15.8				22479
	25 I6010			1.52	2.79	5.08	7.37	9.65	12.19					18130
	38 I4015		0.25	0.51	0.76	1.52	2.03	2.79	3.3	5.08	6.86	10.16	13.72	40609
	38 I5015			0.51	1.02	1.78	2.54	3.3	4.06	6.1	8.13	12.19	16.26	33866
	38 I6015		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 I4010		1.52	2.54	4.57	8.38	12.19	16.26						18863
	25 I5010		1.52	2.54	4.83	8.89	12.95	17.27						15638
	25 I6010		1.78	3.05	5.84	10.92	16.26							12559
	38 I4015	0.51	0.51	0.76	1.52	2.79	4.06	5.33	6.86	10.2	13.46			27757
	38 I5015	0.51	0.51	1.02	1.78	3.3	4.57	6.1	7.87	11.7	15.49			23164
	38 I6015	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 I4010	1.78	2.54	4.32	8.38	16								13781
	25 I5010	2.03	2.79	4.57	8.89	17.27								11484
	25 I6010	2.29	3.56	5.59	10.69									8796
	38 I4015	0.51	0.76	1.52		5.08	7.62	10.16	12.7					19938
	38 I5015	0.76	1.02	1.78	3.05	6.1	9.14	12.19	15.24					16620
	38 I6015	1.02	1.27	2.03	4.06	7.62	11.43	15.24						13292

	Type	Deflection (mm)/Unit Weight(Kg)										Max Load
		196	293	489	977	1955	2932	3910	4887	7331	9774	
Span (mm)	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 I4010	3.05	4.57	7.62	14.48							10507
	25 I5010	3.56	5.08	8.64	16.51							8796
	25 I6010	3.81	5.59	9.14	17.78							6988
	38 I4015	1.02	1.52			8.64	12.95					14905
	38 I5015	1.27	1.78	2.79	5.59	10.69	16					12422
	38 I6015	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 I4010	4.826	7.366	11.9								8308
	25 I5010	5.59	8.38	13.7								6842
	25 I6010	6.35	9.4	15								5522
	38 I4015	1.52				13.97						11386
	38 I5015	1.78	2.79	4.57	8.64	16.76						9480
	38 I6015	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

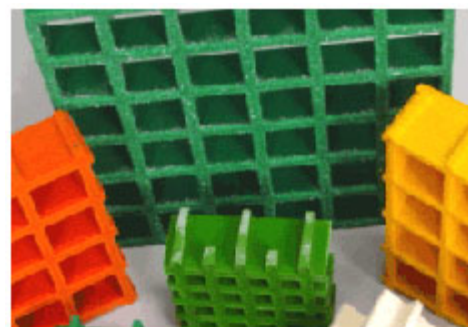
Type	Resin Base	Description	Corrosion Resistance	Flame Spread Rating
<b>V</b>	Vinyl Ester	Superior corrosion resistance and fire retardant	Excellent	Class I(25) or less
<b>I</b>	Isophthalic Polyester	Chemical proof corrosion resistance and fire retardant	Very Good	Class I(25) or less
<b>O</b>	Orthophthalic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

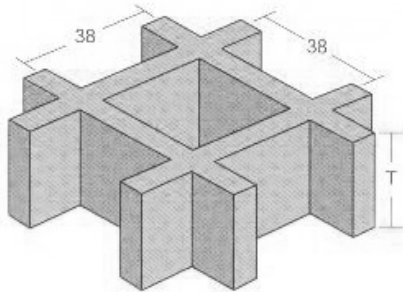
### · Grating Parameters

Panel Thickness(mm)	Mesh (mm)	Panel Size (mm)*(mm)	Bar Thickness (mm)	Open Area%	Wt/Sq.Ft (Lbs.)	Panel Weight (Lbs.)
<b>1.0"(25)</b>	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"*12"(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)
<b>1.5"(38)</b>	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)
<b>2.0"-50</b>	2.0"*2.0"(50*50)	4"*12"(1220*3660)	5/6"(8.0)	70%	4.58(22.4Kg/m2)	220(100Kg)

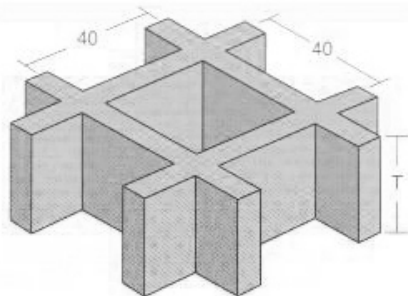
All panels have five surface choices:concave top, grit top, plain top, smooth top, and covered top, Standard color: green, yellow, grey, dark grey and orange. Custom color, thickness and size are available upon request.



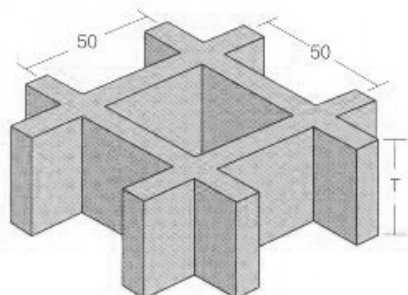
## Molded Gratings



Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
13	6.0/5.0	38*38	6.0	78
14	6.0/5.0	38*38	6.5	78
20	6.0/5.0	38*38	9.8	65
25	6.5/5.0	38*38	12.3	68
30	6.5/5.0	38*38	14.6	68
38	7.0/5.0	38*38	19.5	68
50	9.5/7.5	38*38	42.0	56
60	10.5/8.5	38*38	50.4	54
70	11.0/9.0	38*38	58.8	49

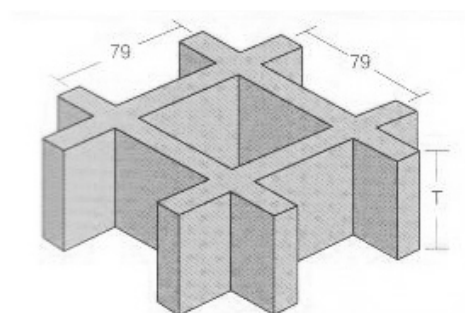


Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
25	7.0/5.0	40*40	12.3	67
30	7.0/5.0	40*40	14.6	67
38	7.0/5.0	40*40	19.2	67
40	7.0/5.0	40*40	19.5	67

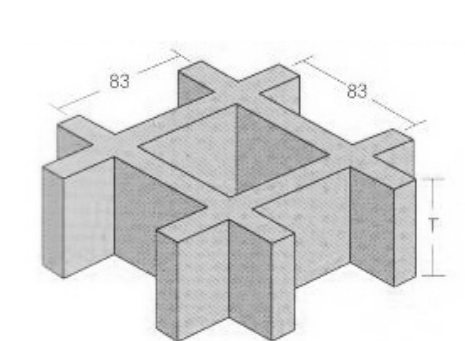


Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
15	6.0/5.0	50*50	5.9	82
40	6.8/5.0	50*50	18.2	80
25	7.0/6.0	50*50	11.5	78
50	8.0/6.0	50*50	23.7	78
63	8.3/6.0	50*50	28.8	78

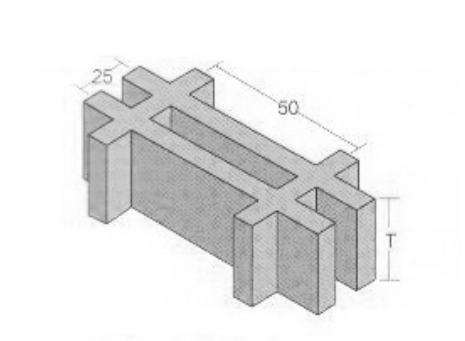
## Molded Gratings



Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
23	6.5/5.0	79*79	5.7	80

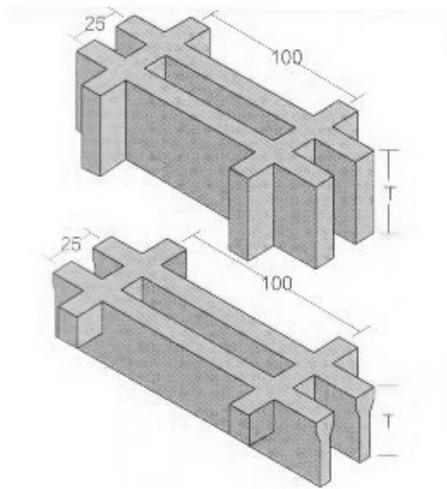


Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
25	7.0/5.0	83*83	5.8	84
38	7.0/5.0	83*83	9.5	84
40	7.0/5.0	83*83	10.7	84

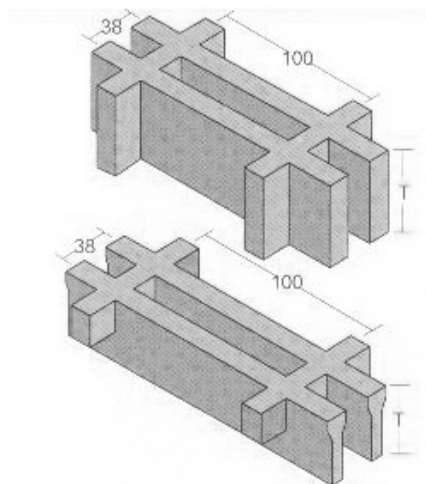


Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
38	11.0/9.0	25*50	30.7	48
50	12.0/9.0	25*50	41.8	48

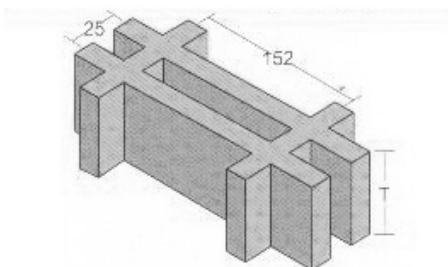
## Molded Gratings



Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
25	7.0/5.5	25*100	13.0	67
25	7.0/5.0	25*100	13.8	67
25	9.5/8.0	25*100	19.5	52
30	7.0/5.5	25*100	15.6	67
38	8.0/6.0	25*100	22.5	62



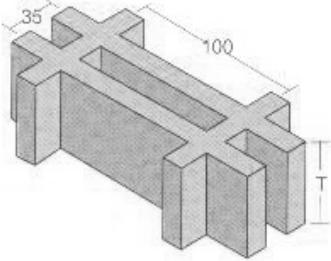
Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
38	8.0/6.0	38*100	16.4	65



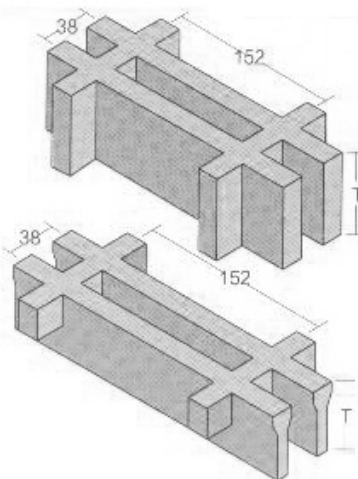
Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
38	8.0/6.5	25*152	22.5	63



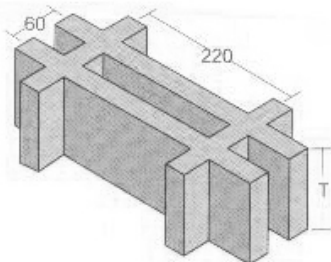
## Molded Gratings



Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
38	7.0/5.0	35*100	14.8	63

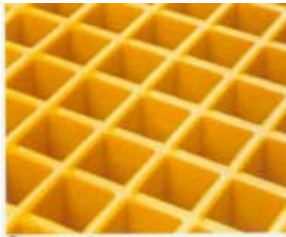


Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
38	8.0/6.0	38*152	15.9	67



Thickness mm	Rib Thickness up/bottom	Mesh Size mm	Weight kg/m <sup>2</sup>	Open Ratio %
40	6.3/5.0	60*220	8.8	67

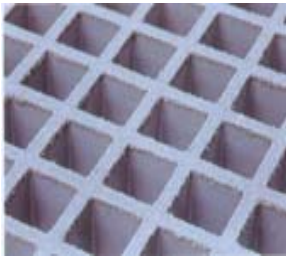
### Surface Choice



#### S-C

**Surface Type:** Concave Top

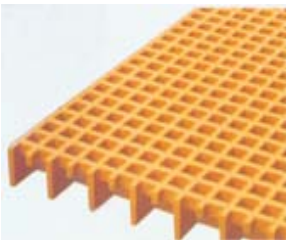
**Application:** anti-slip



#### S-G

**Surface Type:** Gritted Top

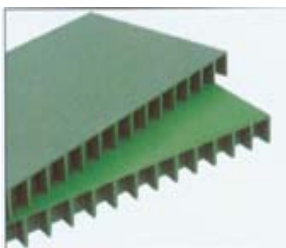
**Application:** excellent anti-slip



#### S-Mini

**Surface Type:** Mini Mesh

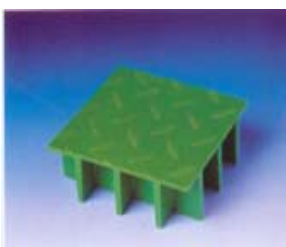
**Application:** anti leakage of small tools



#### S-Cover

**Surface Type:** Gritted Covered Top

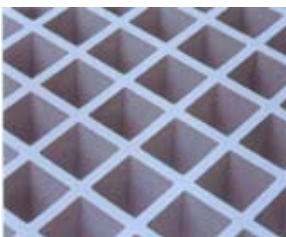
**Application:** excellent anti-slip, protecting against Leakage & Volatilization



#### S-D

**Surface Type:** Check Plate Covered Top

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

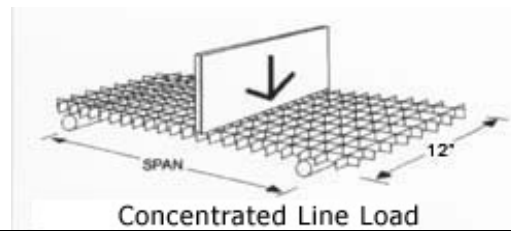


#### S-S

**Surface Type:** Frosted Surface

**Application:** decoration, door, ceiling

## Concentrated linear Load

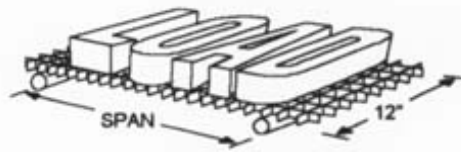


Span (mm)	Mesh Size	Deflection (mm)/Unit Weight(Kg)						Max Load
		75	149	298	447	596	745	
<b>305</b>	38x38 SM	0.279	0.356	0.483	0.61	0.762	0.889	17116
	50x50 SM	0.279	0.305	0.406	0.483	0.635	1.041	21727
	25x25x100 RMS	0.33	0.483	0.737	0.991	1.27	1.52	9442
	25x25x100 RMH	0.381	0.483	0.711	0.94	1.168	1.372	9488
	38x19 Mini	0.33	0.686	1.346	2.057	2.692		
	38x38x152 RM	0.051	0.102	0.229	0.381		0.635	
<b>457</b>	25x38 SM	0.559	1.143	2.159	3.073	4.115	4.75	3910
	38x19 Mini	0.737	1.473	2.946	4.42	5.893		
	30x20 Mini		0.432	0.864	1.27	1.702	2.159	
	38x38x152 RM	0.178	0.381	0.737	1.168		1.829	
<b>610</b>	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	
	38x38x152 RM	0.381	0.813	1.651	2.388		3.861	
<b>762</b>	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		
	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	
<b>914</b>	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	
<b>1067</b>	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
	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			
<b>1219</b>	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
	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			
<b>1524</b>	38x38 SM	4.166	8.66	17.678				3004

## Uniform Load



UNIFORMED LOAD - 12" WIDE

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

## Uniform Load

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

CHEMICAL	TYPE 'Vinyl'		TYPE 'Iso'		TYPE 'Ortho'	
Environment	%Conc.	Max.Oper.Te mp.F/C	%Conc.	Max.Oper. Temp.F/C	%Conc.	Max.Oper.Te mp.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



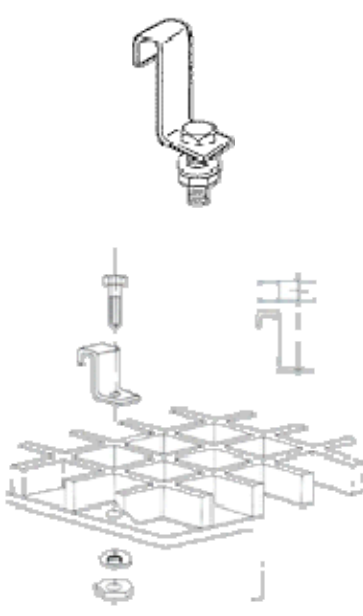
CHEMICAL	TYPE 'Vinyl'		TYPE 'Iso'		TYPE 'Ortho'	
Environment	%Conc.	Max.Oper.Temp.F/C	%Conc.	Environment	%Conc.	Max.Oper.Temp.F/C
<b>Magnesium Chloride</b>	ALL	210/99	ALL	170/77	ALL	104/40
<b>Magnesium Nitrate</b>	ALL	210/99	ALL	140/60	ALL	86/30
<b>Magnesium Sulfate</b>	ALL	210/99	ALL	170/77	ALL	104/40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

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

### Installation of Gratings

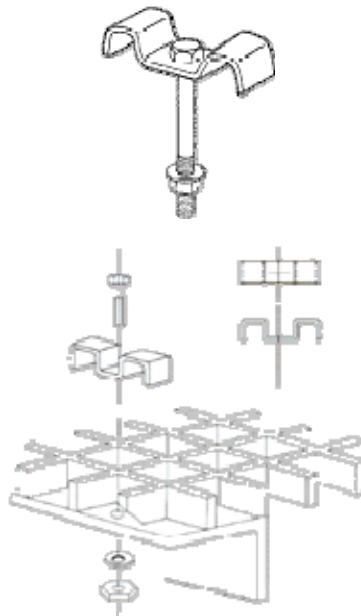
Installation recommendation——whenever possible provided for a minimum of 1-1/2" (40mm) bearing support at all grating support points. Hold down clips should be used at the rate of one clip for every 6 square feet (0.56square meters) of grating minimum, or at least 4 clips for any square or rectangular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

### Molded Grating Installation Accessories



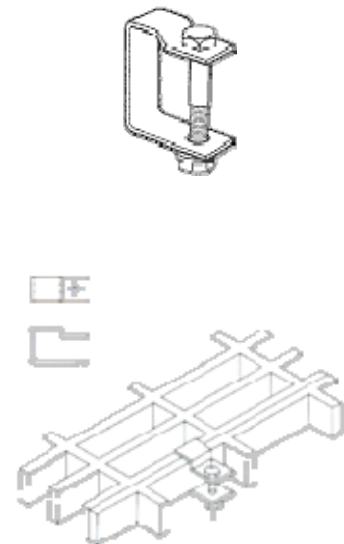
Type L

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



Type M

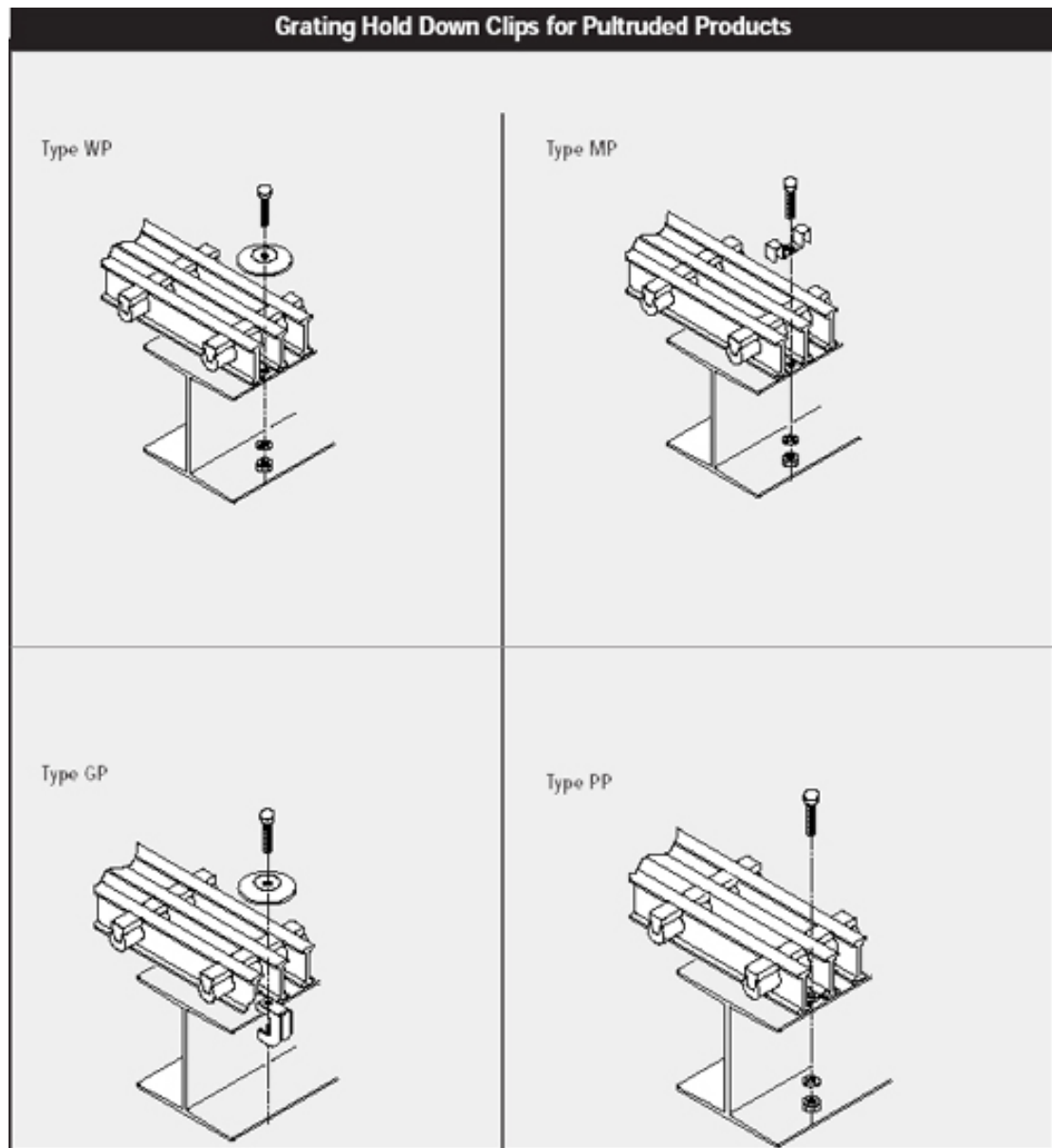
Type M Hold Down Clips-Designed to fix grating on support structure & prevent it from turning in all four directions.



Type C

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

### Pultruded Grating Installation Accessories



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