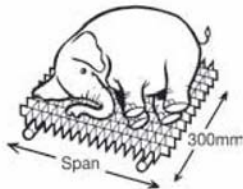


## Fibreglass Grating

### Load Deflection Tables - Moulded Fibreglass Grating



#### MOULDED FIBREGLASS GRATING - Deflection sheet for uniform load (300mm wide)

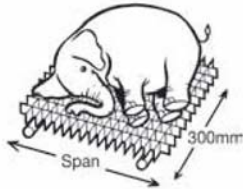
Span (mm)	Mesh Size (mm)	Height (mm)	Uniform Load (kg/m <sup>2</sup> )							Uniform Load under 1% deflection (kg/m <sup>2</sup> )
			98	122	244	367	489	733	977	
<b>305</b>	38 x 38	15	0.29	0.36	0.73	1.1	1.46	2.19	2.93	1020
	38 x 38	25	0.06	0.08	0.15	0.23	0.29	0.46	0.6	4956
	25 x 100	25	0.03	0.03	0.06	0.1	0.13	0.19	0.26	11637
	40 x 40	25	0.07	0.09	0.17	0.26	0.34	0.51	0.69	4336
	38 x 38	38	0.02	0.03	0.05	0.08	0.11	0.16	0.21	14270
	25 x 152	38	0.01	0.02	0.03	0.05	0.07	0.1	0.14	21450
	40 x 40	40	0.02	0.02	0.05	0.07	0.1	0.15	0.19	15210
<b>457</b>	38 x 38	15	0.74	0.92	1.84	2.77	3.69	5.53	7.37	606
	38 x 38	25	0.15	0.19	0.39	0.56	0.76	1.14	1.52	2943
	25 x 100	25	0.09	0.12	0.25	0.36	0.48	0.73	0.96	4656
	40 x 40	25	0.17	0.22	0.43	0.65	0.89	1.31	1.73	2575
	40 x 40 (20 x 20)	30	0.09	0.11	0.21	0.31	0.43	0.65	0.87	5131
	25 x 152	38	0.04	0.05	0.09	0.14	0.18	0.27	0.37	12244
	40 x 40	40	0.05	0.07	0.13	0.2	0.26	0.41	0.53	8441
	40 x 40 (20 x 20)	40	0.03	0.05	0.09	0.14	0.18	0.27	0.37	12162
50 x 50	50	0.03	0.03	0.07	0.11	0.14	0.22	0.29	15964	
<b>610</b>	38 x 38	15	2.37	2.95	5.91	8.89	-	-	-	252
	38 x 38	25	0.49	0.61	1.21	1.84	2.44	3.65	4.87	1224
	25 x 100	25	0.29	0.37	0.73	1.1	1.47	2.21	2.93	2035
	40 x 40	25	0.5	0.62	1.25	1.87	2.51	3.75	4.99	1194
	40 x 40 (20 x 20)	30	0.29	0.36	0.72	1.08	1.44	2.18	2.87	2069
	38 x 38	38	0.14	0.18	0.37	0.55	0.73	1.08	1.44	4140
	25 x 152	38	0.1	0.12	0.25	0.37	0.47	0.72	0.97	6210
	40 x 40	40	0.12	0.15	0.31	0.46	0.61	0.92	1.23	4889
	40 x 40 (20 x 20)	40	0.12	0.15	0.3	0.46	0.59	0.91	1.21	4904
	50 x 50	50	0.08	0.1	0.19	0.3	0.4	0.61	0.79	7461

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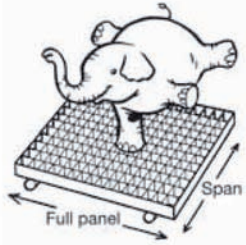
**MOULDED FIBREGLASS GRATING -  
Deflection sheet for uniform load (300mm wide)** continued

Span (mm)	Mesh Size (mm)	Height (mm)	Uniform Load (kg/m <sup>2</sup> )							Uniform Load under 1% deflection (kg/m <sup>2</sup> )
			98	122	244	367	489	733	977	
<b>914</b>	38 x 38	25	2.26	2.81	5.62	8.45	11.25	-	-	397
	25 x 100	25	1.57	1.95	3.92	5.86	7.82	11.73	-	572
	40 x 40	25	2.53	3.15	6.31	9.48	-	-	-	354
	40 x 40 (20 x 20)	30	1.24	1.56	3.1	4.67	6.22	9.34	12.43	718
	25 x 152	38	0.42	0.52	1.05	1.57	2.12	3.15	4.19	2131
	40 x 40	40	0.62	0.77	1.56	2.31	3.08	4.62	6.15	1452
	40 x 40 (20 x 20)	40	0.53	0.66	1.31	1.97	2.63	3.92	5.26	1700
50 x 50	50	0.35	0.44	0.87	1.32	1.76	2.63	3.51	2545	
<b>1000</b>	25 x 100	25	2.19	2.73	5.45	8.21	10.94	-	-	447
	40 x 40	25	3.55	4.42	8.86	-	-	-	-	276
	40 x 40 (20 x 20)	30	1.88	2.34	4.67	7.06	9.4	-	-	520
	40 x 40	40	0.86	1.08	2.15	3.24	4.32	6.47	8.62	1133
	40 x 40 (20 x 20)	40	0.79	0.99	1.97	2.95	3.96	5.94	7.91	1234
<b>1219</b>	25 x 152	38	1.42	1.76	3.52	5.3	7.06	10.59	-	844
	40 x 40	40	1.81	2.25	4.51	6.77	9.02	13.52	-	661
	40 x 40 (20 x 20)	40	1.75	2.19	4.37	6.58	8.75	13.14	-	680
	50 x 50	50	1.08	1.35	2.69	4.05	5.39	8.09	10.78	1105
<b>1372</b>	38 x 38	38	3.41	4.25	8.52	12.95	-	-	-	394
	25 x 152	38	2.27	2.83	5.65	8.51	11.33	-	-	592
	50 x 50	50	1.73	2.16	4.34	6.51	8.67	12.97	-	775
<b>1524</b>	38 x 38	38	5.18	6.46	12.91	-	-	-	-	288
	25 x 152	38	3.46	4.3	8.61	12.95	-	-	-	432
	50 x 50	50	2.64	3.29	6.58	9.9	13.19	-	-	565

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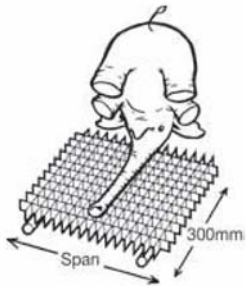
### MOULDED FIBREGLASS GRATING - Deflection sheet for point load (full panel)

Span (mm)	Mesh Size (mm)	Height (mm)	Point Load (kg)							Point Load under 1% deflection (kg)
			45	114	227	341	454	681	908	
<b>305</b>	38 x 38	25	0.13	0.34	0.66	0.97	1.32	1.97	2.64	1050
	25 x 100	25	0.12	0.3	0.58	0.82	1.15	1.55	2.1	1242
	38 x 38	38	0.12	0.28	0.39	0.56	0.73	1.12	1.48	1909
	40 x 40	40	0.1	0.25	0.4	0.59	0.73	1.03	1.46	1909
<b>457</b>	25 x 100	25	0.31	0.73	1.43	2.15	2.78	4.14	5.47	715
	38 x 38	38	0.15	0.35	0.67	0.92	1.21	1.73	2.23	1611
	40 x 40	40	0.15	0.34	0.66	0.94	1.23	1.87	2.35	1622
	50 x 50	50	0.03	0.12	0.26	0.36	0.47	0.48	0.69	6669
<b>610</b>	38 x 38	25	0.78	1.65	3.43	6.16	7.17	10.26	12.88	338
	25 x 100	25	0.75	1.65	3.28	4.76	6.24	9.22	-	420
	38 x 38	38	0.3	0.67	1.3	1.79	2.31	3.48	4.61	1211
	40 x 40	40	0.21	0.49	0.98	1.45	1.9	2.89	3.7	1421
	50 x 50	50	0.11	0.27	0.56	0.83	1.1	1.65	2.16	2580
<b>914</b>	38 x 38	25	1.83	4.58	9.85	13.52	-	-	-	187
	25 x 100	25	1.73	4.12	8.08	12.1	-	-	-	250
	38 x 38	38	0.65	1.56	3.03	4.27	5.48	9.13	10.86	688
	40 x 40	40	0.63	1.51	2.9	4.3	5.4	8.56	10.37	710
	50 x 50	50	0.31	0.78	1.56	2.35	3.16	4.75	6.39	1313
<b>1000</b>	25 x 100	25	2.13	5.07	9.96	14.96	-	-	-	228
	40 x 40	40	0.66	1.71	3.38	5.06	6.77	10.08	13.37	674
<b>1219</b>	38 x 38	25	3.15	7.82	15.68	-	-	-	-	142
	38 x 38	38	0.95	2.41	4.71	6.9	9.12	13.55	-	526
	40 x 40	40	0.92	2.35	4.68	7.04	9.38	12.66	-	532
	50 x 50	50	0.57	1.45	2.88	4.3	5.77	8.55	11.34	959
<b>1372</b>	38 x 38	38	1.49	3.79	7.58	11.3	-	-	-	415
	50 x 50	50	0.83	2.09	4.15	6.21	8.26	-	-	757
<b>1473</b>	38 x 38	38	1.86	4.72	9.32	-	-	-	-	360
	50 x 50	50	1.07	2.69	5.12	7.76	10.29	-	-	656
<b>1524</b>	50 x 50	50	1.21	2.96	5.84	8.57	-	-	-	613

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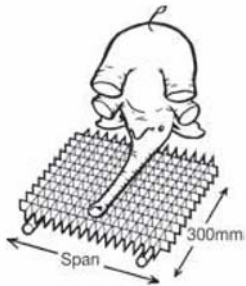
**MOULDED FIBREGLASS GRATING -  
Deflection sheet for concentrated line load (300mm wide)**

(mm)	(mm)	Height (mm)	Uniform Load (kg/300mm)							Concentrated Line Load under 1% deflection (kg/300mm)
			45	114	227	341	454	681	908	
<b>305</b>	38 x 38	15	0.98	2.49	4.96	7.43	9.88	-	-	140
	38 x 38	25	0.24	0.51	1.02	1.52	2.03	3.03	4.05	683
	25 x 100	25	0.14	0.34	0.69	1.02	1.36	2.05	2.73	1015
	40 x 40	25	0.27	0.69	1.37	2.06	2.75	4.1	5.5	505
	38 x 38	38	0.1	0.24	0.49	0.71	0.95	1.42	1.9	1457
	25 x 152	38	0.09	0.17	0.32	0.48	0.63	0.96	1.27	2185
	40 x 40	40	0.09	0.22	0.45	0.65	0.89	1.33	1.77	1567
	50 x 50	50	0.06	0.16	0.31	0.48	0.63	0.95	1.27	2183
<b>457</b>	38 x 38	15	3.37	8.54	-	-	-	-	-	61
	38 x 38	25	0.69	1.75	3.49	5.25	6.99	10.49	-	297
	25 x 100	25	0.43	1.08	2.17	3.25	4.33	6.5	8.65	479
	40 x 40	25	0.82	2.07	4.12	6.18	8.23	12.35	-	252
	40 x 40 (20 x 20)	30	0.42	1.07	2.12	3.19	4.24	6.36	8.49	489
	38 x 38	38	0.21	0.52	1.04	1.57	2.07	3.12	4.16	998
	25 x 152	38	0.15	0.37	0.74	1.12	1.47	2.21	2.95	1407
	40 x 40	40	0.2	0.51	1.01	1.51	2.01	3.03	4.02	1032
	40 x 40 (20 x 20)	40	0.18	0.45	0.9	1.34	1.79	2.69	3.57	1159
	50 x 50	50	0.13	0.33	0.67	1.01	1.33	2.01	2.67	1552
<b>610</b>	38 x 38	15	8.33	-	-	-	-	-	-	33
	38 x 38	25	1.74	4.4	8.76	-	-	-	-	158
	25 x 100	25	1.11	2.8	5.58	8.39	11.17	-	-	248
	40 x 40	25	1.77	4.49	8.93	13.42	-	-	-	155
	40 x 40 (20 x 20)	30	1.08	2.75	5.47	8.22	10.95	-	-	253
	38 x 38	38	0.5	1.26	2.51	3.77	5.02	7.53	10.03	552
	25 x 152	38	0.35	0.88	1.75	2.63	3.51	5.26	7.01	790
	40 x 40	40	0.47	1.18	2.38	3.54	4.72	7.08	9.45	587
	40 x 40 (20 x 20)	40	0.46	1.16	2.31	3.47	4.62	6.93	9.25	599
	50 x 50	50	0.31	0.77	1.55	2.32	3.08	4.64	6.18	896

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**MOULDED FIBREGLASS GRATING -  
Deflection sheet for concentrated line load (300mm wide)** continued

(mm)	(mm)	Height (mm)	Uniform Load (kg/300mm)							Concentrated Line Load under 1% deflection (kg/300mm)
			45	114	227	341	454	681	908	
<b>914</b>	38 x 38	25	5.79	-	-	-	-	-	-	71
	25 x 100	25	3.92	9.92	-	-	-	-	-	105
	40 x 40	25	6.14	-	-	-	-	-	-	67
	40 x 40 (20 x 20)	30	3.19	8.08	-	-	-	-	-	129
	38 x 38	38	1.68	4.25	8.47	12.72	-	-	-	245
	25 x 152	38	1.17	2.96	5.89	8.85	11.79	-	-	352
	40 x 40	40	1.5	3.79	7.54	11.33	-	-	-	275
	40 x 40 (20 x 20)	40	1.35	3.42	6.8	10.22	13.6	-	-	305
	50 x 50	50	0.99	2.49	4.97	7.47	9.95	14.93	-	417
<b>1000</b>	25 x 100	25	5	12.67	-	-	-	-	-	90
	40 x 40	25	7.89	-	-	-	-	-	-	57
	40 x 40 (20 x 20)	30	4.09	10.36	-	-	-	-	-	110
	40 x 40	40	1.94	4.91	9.78	-	-	-	-	232
	40 x 40 (20 x 20)	40	1.73	4.38	8.73	13.11	-	-	-	260
<b>1219</b>	38 x 38	38	4	10.14	-	-	-	-	-	137
	25 x 152	38	2.77	7.02	13.97	-	-	-	-	198
	40 x 40	40	3.98	10.07	-	-	-	-	-	138
	40 x 40 (20 x 20)	40	3.13	7.94	15.81	-	-	-	-	175
	50 x 50	50	2.3	5.84	11.63	-	-	-	-	238
<b>1372</b>	38 x 38	38	5.72	14.48	-	-	-	-	-	108
	25 x 152	38	3.96	10.03	-	-	-	-	-	156
	50 x 50	50	3.28	8.32	16.57	-	-	-	-	188
<b>1524</b>	38 x 38	38	7.79	-	-	-	-	-	-	88
	25 x 152	38	5.44	13.79	-	-	-	-	-	126
	50 x 50	50	4.51	11.43	-	-	-	-	-	152

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