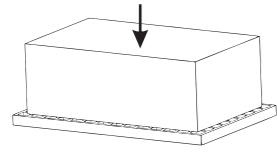


# FRP Molded Gratings

## Deflection sheet for uniformly distributed load (mm)



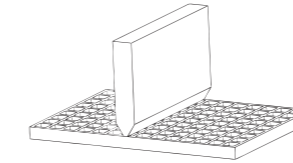
**Testing principle :** Measuring the deflection values of a specified testing sample with different uniform loads at different spans



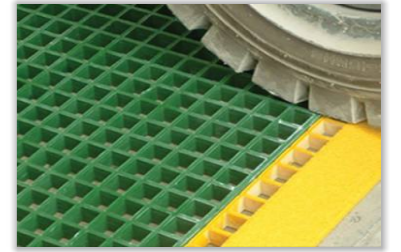
Span mm	Mesh Size mm	Height mm	Uniform load (kg/m <sup>2</sup> )						
			200	400	600	800	1200	1600	2000
457	38.1x38.1	25	0.55	1.10	1.64	2.18	3.27	4.35	5.45
	19x19/38x38	25	0.40	0.80	1.20	1.59	2.38	3.17	3.96
	25.4x101.6	25	0.33	0.65	0.98	1.30	1.95	2.60	3.26
	38.1x38.1	30	0.31	0.63	0.94	1.25	1.87	2.49	3.11
	40x40 (Top 20x20)	30	0.24	0.48	0.72	0.96	1.44	1.92	2.40
	38.1x38.1	38	0.14	0.28	0.42	0.57	0.85	1.13	1.41
	38.1x101.6 (bearing bars to run length direction)	38	0.20	0.40	0.60	0.80	1.20	1.60	2.00
	40x40 (Top 20x20)	38	0.13	0.26	0.39	0.55	0.82	1.10	1.37
	38.1x38.1 (9/11.5)	50	/	0.14	0.20	0.27	0.40	0.53	0.67
	38.1x38.1 (5.8/9)	60	/	0.15	0.21	0.29	0.43	0.57	0.71
38.1x38.1 (9/12)	60	/	0.10	0.15	0.20	0.30	0.41	0.51	
610	38.1x38.1	25	1.18	2.35	3.53	4.70	7.05	9.40	11.75
	19x19/38x38	25	0.98	1.95	2.92	3.90	5.84	7.79	9.73
	25.4x101.6	25	0.91	1.83	2.74	3.65	5.47	7.30	9.11
	38.1x38.1	30	0.71	1.41	2.12	2.83	4.25	5.65	7.07
	40x40 (Top 20x20)	30	0.54	1.08	1.63	2.17	3.25	4.34	5.42
	38.1x38.1	38	0.31	0.62	0.93	1.24	1.87	2.49	3.11
	38.1x101.6 (bearing bars to run length direction)	38	0.45	0.91	1.36	1.82	2.72	3.63	4.54
	40x40 (Top 20x20)	38	0.29	0.57	0.85	1.13	1.70	2.27	2.83
	38.1x38.1 (9/11.5)	50	0.14	0.28	0.42	0.56	0.84	1.12	1.41
	38.1x38.1 (5.8/9)	60	0.15	0.30	0.45	0.60	0.90	1.20	1.50
38.1x38.1 (9/12)	60	0.12	0.23	0.35	0.46	0.70	0.93	1.16	
914	38.1x38.1	25	6.10	12.19	18.29	/	/	/	/
	19x19/38x38	25	5.45	10.89	16.33	/	/	/	/
	25.4x101.6	25	4.76	9.53	14.29	19.05	/	/	/
	38.1x38.1	30	3.53	7.06	10.59	14.12	/	/	/
	40x40 (Top 20x20)	30	3.04	6.09	9.14	12.18	18.28	24.38	/
	38.1x38.1	38	1.54	3.07	4.61	6.14	9.22	12.29	15.36
	38.1x101.6 (bearing bars to run length direction)	38	2.15	4.30	6.45	8.60	12.91	17.20	21.50
	40x40 (Top 20x20)	38	1.33	2.65	3.98	5.30	7.95	10.60	13.25
	38.1x38.1 (9/11.5)	50	0.44	0.89	1.33	1.78	2.67	3.56	4.45
	38.1x38.1 (5.8/9)	60	0.47	0.94	1.41	1.89	2.83	3.77	4.71
38.1x38.1 (9/12)	60	0.31	0.62	0.93	1.24	1.87	2.49	3.11	
1219	38.1x38.1	38	4.69	9.38	14.06	18.77	/	/	/
	25.4x158.4 (bearing bars to run length direction)	38	3.34	6.68	10.02	13.37	20.05	/	/
	38.1x101.6 (bearing bars to run length direction)	38	6.59	13.18	19.78	/	/	/	/
	40x40 (Top 20x20)	38	4.16	8.30	12.46	16.62	/	/	/
	38.1x38.1 (9/11.5)	50	1.37	2.73	4.10	5.47	8.21	10.94	13.68
	38.1x38.1 (5.8/9)	60	1.61	3.22	4.82	6.43	9.64	12.86	16.08
	38.1x38.1 (9/12)	60	0.96	1.91	2.87	3.83	5.74	7.65	9.57

# FRP Molded Gratings

## Deflection sheet for concentrated line load (mm)



**Testing principle :** Measuring the deflection values of a specified testing sample with different concentrated line loads at different spans



Span mm	Mesh Size mm	Height mm	Concentrated line load (kg/300mm)						
			100	200	400	600	800	1000	1500
457	38.1x38.1	25	1.83	3.66	7.31	10.97	/	/	/
	19x19/38x38	25	1.61	3.23	6.44	9.67	/	/	/
	25.4x101.6	25	1.42	2.84	5.68	8.53	/	/	/
	38.1x38.1	30	1.23	2.47	4.93	7.40	/	/	/
	20x20/40x40	30	1.13	2.25	4.49	6.74	5.54	6.93	10.39
	38.1x38.1	38	0.69	1.38	2.77	4.15	6.31	8.99	/
	38.1x101.6 (bearing bars to run length direction)	38	0.79	1.58	3.15	4.73	7.10	11.82	/
	20x20/40x40	38	0.62	1.24	2.49	3.72	5.58	8.37	9.30
	38.1x38.1 (9/11.5)	50	0.26	0.51	1.02	1.54	2.05	2.56	3.84
	38.1x38.1 (5.8/9)	60	0.27	0.54	1.08	1.62	2.16	2.70	4.04
38.1x38.1 (9/12)	60	0.18	0.36	0.72	1.08	1.43	1.79	2.69	
610	38.1x38.1	25	4.24	8.47	16.95	/	/	/	/
	19x19/38x38	25	3.91	7.82	15.65	/	/	/	/
	25.4x101.6	25	3.40	6.78	13.56	/	/	/	/
	38.1x38.1	30	3.18	6.35	12.75	/	/	/	/
	20x20/40x40	30	2.65	5.31	10.61	15.92	/	/	/
	38.1x38.1	38	1.62	3.24	6.47	9.71	12.95	/	/
	38.1x101.6 (bearing bars to run length direction)	38	1.91	3.81	7.63	11.44	15.25	/	/
	20x20/40x40	38	1.45	2.90	5.81	8.71	11.62	/	/
	38.1x38.1 (9/11.5)	50	0.38	0.77	1.54	2.31	3.08	3.85	5.77
	38.1x38.1 (5.8/9)	60	0.50	0.98	1.95	2.91	3.88	4.85	7.38
38.1x38.1 (9/12)	60	0.27	0.54	1.07	1.61	2.14	2.68	4.01	
914	38.1x38.1	25	14.74	/	/	/	/	/	/
	19x19/38x38	25	13.44	/	/	/	/	/	/
	25.4x101.6	25	13.06	/	/	/	/	/	/
	38.1x38.1	30	9.14	18.28	/	/	/	/	/
	20x20/40x40	30	7.95	15.90	/	/	/	/	/
	38.1x38.1	38	5.38	10.75	21.50	/	/	/	/
	38.1x101.6 (bearing bars to run length direction)	38	6.09	12.19	24.37	/	/	/	/
	20x20/40x40	38	4.81	9.62	19.24	/	/	/	/
	38.1x38.1 (9/11.5)	50	1.00	1.99	3.96	5.94	7.92	9.89	14.84
	38.1x38.1 (5.8/9)	60	1.14	2.28	4.57	6.85	9.14	11.43	17.14
38.1x38.1 (9/12)	60	0.76	1.52	3.05	4.57	6.09	7.62	11.42	
1219	38.1x38.1	38	10.33	20.68	/	/	/	/	/
	38.1x101.6 (bearing bars to run length direction)	38	10.88	21.78	/	/	/	/	/
	20x20/40x40	38	10.16	20.33	/	/	/	/	/
	38.1x38.1 (9/12)	50	3.69	7.39	14.78	22.20	/	/	/
	38.1x38.1 (5.8/9)	60	3.87	7.74	15.48	23.24	/	/	/
	38.1x38.1 (9/12)	60	2.59	5.19	10.37	15.58	20.77	/	/