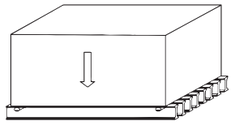
Deflection sheet for uniformly distributed load (mm)

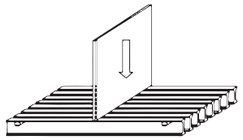


Testing principle : Measuring the deflection values of a specified testing sample with different uniform loads at different spans

Span mm	Type	Uniform load (kg/m²)						
		400	800	1200	1600	2000	2500	3000
457	I – 40 – 25	0.12	0.23	0.34	0.45	0.56	0.70	0.84
	I – 50 – 25	0.14	0.27	0.41	0.54	0.68	0.84	1.01
	I – 60 – 25	0.17	0.34	0.51	0.68	0.84	1.05	1.27
	I – 40 – 30	/	0.15	0.23	0.30	0.38	0.47	0.56
	I – 50 – 30	/	0.18	0.27	0.36	0.45	0.56	0.68
	I – 60 – 30	0.12	0.23	0.34	0.45	0.56	0.70	0.85
	I – 40 – 38	/	/	0.12	0.16	0.20	0.25	0.30
	I – 50 – 38	/	/	0.15	0.20	0.24	0.30	0.36
	I – 60 – 38	/	0.12	0.18	0.24	0.30	0.38	0.46
610	I – 40 – 25	0.36	0.71	1.06	1.42	1.77	2.22	2.66
	I– 50 – 25	0.43	0.85	1.28	1.70	2.12	2.66	3.19
	I – 60 – 25	0.53	1.06	1.60	2.13	2.66	3.32	3.98
	I – 40 – 30	0.24	0.47	0.71	0.95	1.18	1.48	1.77
	I – 50 – 30	0.28	0.57	0.85	1.13	1.42	1.77	2.13
	I – 60 – 30	0.36	0.71	1.06	1.42	1.77	2.22	2.33
	I – 40 – 38	0.13	0.25	0.38	0.51	0.63	0.79	0.95
	I – 50 – 38	0.15	0.30	0.46	0.61	0.76	0.95	1.14
	I – 60 – 38	0.19	0.38	0.57	0.76	0.95	1.19	1.42
	I – 33 – 50	0.12	0.23	0.35	0.46	0.58	0.72	0.87
	I – 50 – 50	0.14	0.26	0.40	0.53	0.66	0.83	1.00
914	I – 50 – 25	1.62	3.23	4.84	6.46	8.08	10.09	12.11
	I – 50 – 25	1.94	3.88	5.82	7.76	9.70	12.12	14.54
	I – 60 – 25	2.42	4.84	7.26	9.69	12.11	15.13	18.16
	I – 40 – 30	1.08	2.15	3.23	4.31	5.38	6.73	8.07
	I – 50 – 30	1.29	2.59	3.88	5.17	6.46	8.08	9.70
	I – 60 – 30	1.61	3.23	4.84	6.46	8.07	10.09	12.11
	I – 40 – 38	0.58	1.15	1.73	2.31	2.88	3.61	4.33
	I – 50 – 38	0.70	1.38	2.08	2.77	3.46	4.33	5.20
	I – 60 – 38	0.87	1.73	2.60	3.46	4.32	5.40	6.49
	T– 33 – 50	0.36	0.72	1.08	1.44	1.80	2.25	2.70
	T – 50 – 50	0.48	0.96	1.44	1.92	2.40	3.00	3.60
	T – 33 – 76	0.12	0.24	0.36	0.48	0.60	0.75	0.90
	I – 50 – 76	0.16	0.32	0.48	0.64	0.80	1.00	1.20
1219	I – 40 – 25	5.08	10.17	15.25	20.33	/	/	/
	I – 50 – 25	6.10	12.20	18.30	24.40	/	/	/
	I – 60 – 25	7.63	15.25	22.88	/	/	/	/
	I – 40 – 30	3.39	6.78	10.17	13.56	16.95	21.18	/
	I – 50 – 30	4.07	8.13	12.20	16.27	20.34	/	/
	I – 60 – 30	5.08	10.17	15.25	20.33	/	/	/
	I – 40 – 38	1.82	3.63	5.44	7.26	9.08	11.35	13.62
	I –50 – 38	2.18	4.36	6.54	8.71	10.89	13.62	16.34
	I – 60 – 38	2.72	5.45	8.17	10.89	13.62	17.02	20.42
	T – 33 – 50	1.08	2.18	3.27	4.36	5.46	6.82	8.19
	T – 50 – 50	1.45	2.91	4.36	5.82	7.27	9.09	10.91
	T – 33 – 79	0.36	0.73	1.09	1.45	1.82	2.27	2.73
	T – 50 – 76	0.49	0.97	1.46	1.94	2.43	3.03	3.64

FRP Pultruded 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	Type	Concentrated line load (kg/300mm)							
		100	200	400	600	800	1200	1600	2000
457	I – 40 – 25	0.39	0.76	1.52	2.27	3.03	4.54	6.05	7.56
	I – 50 – 25	0.45	0.91	1.82	2.72	3.63	5.44	7.25	9.07
	I – 60 –25	0.57	1.14	2.27	3.40	4.54	6.80	9.07	11.34
	I – 40 –30	0.30	0.61	1.21	1.82	2.42	3.63	4.84	6.05
	I – 50 – 30	0.36	0.73	1.45	2.18	2.90	4.35	5.80	7.26
	I – 60 – 30	0.46	0.91	1.82	2.73	3.64	5.46	7.28	9.10
	I – 40 – 38	0.15	0.28	0.55	0.81	1.09	1.63	2.17	2.70
	I – 50 – 38	0.17	0.34	0.65	0.98	1.30	1.95	2.60	3.25
	I – 60 – 38	0.20	0.41	0.81	1.22	1.62	2.43	3.25	4.05
610	I – 40 – 25	0.80	1.60	3.20	4.81	6.39	9.55	12.75	/
	I – 50 – 25	0.96	1.91	3.83	5.74	7.66	11.48	/	/
	I – 60 – 25	1.20	2.40	4.79	7.18	9.57	14.35	/	/
	I – 40 – 30	0.58	1.17	2.34	3.51	4.68	7.01	9.35	11.69
	I – 50 – 30	0.70	1.40	2.80	4.21	5.61	8.41	11.22	/
	I – 60 – 30	0.88	1.75	3.51	5.29	7.02	10.50	14.02	/
	I – 40 – 38	0.31	0.60	1.20	1.80	2.40	3.59	4.78	5.97
	I– 50 – 38	0.37	0.72	1.43	2.15	2.86	4.30	5.73	7.16
	I – 60 – 38	0.45	0.90	1.80	2.69	3.58	5.37	7.16	8.95
	T – 33 – 50	0.18	0.37	0.73	1.10	1.70	2.20	2.94	3.68
	T – 50 – 50	0.25	0.50	1.00	1.50	2.00	3.00	4.00	5.00
914	I – 40 – 25	2.54	5.08	10.16	15.24	20.31	/	/	/
	I – 50 – 25	3.05	6.09	12.19	18.28	/	/	/	/
	I – 60 – 25	3.81	7.62	15.23	22.85	/	/	/	/
	I – 40 – 30	1.70	3.39	6.77	10.16	13.54	20.31	/	/
	I – 50 – 30	2.03	4.06	8.13	12.19	16.25	24.37	/	/
	I – 60 – 30	2.54	5.08	10.16	15.23	20.31	/	/	/
	I – 40 – 38	0.91	1.81	3.63	5.44	7.25	10.88	14.51	18.13
	I – 50 – 38	1.09	2.18	4.35	6.53	8.70	13.06	17.41	21.76
	I – 60 – 38	1.36	2.72	5.44	8.16	10.88	16.32	21.76	/
	T – 33 – 50	0.58	1.16	2.32	3.48	4.64	6.96	9.28	11.60
	T – 50 – 50	0.77	1.55	3.09	4.64	6.19	9.28	12.37	15.47
	T – 33 – 76	0.19	0.39	0.77	1.16	1.55	2.32	3.09	3.87
	T – 50 – 76	0.26	0.52	1.03	1.55	2.06	3.09	4.12	5.16
1219	I – 40 – 25	5.35	10.70	21.40	/	/	/	/	/
	I – 50 – 25	6.42	12.80	25.68	/	/	/	/	/
	I – 60 – 25	8.13	16.27	32.53	/	/	/	/	/
	I – 40 – 30	3.59	7.18	14.35	21.53	/	/	/	/
	I – 50 – 30	4.28	8.56	17.12	25.68	/	/	/	/
	I – 60 – 30	5.35	10.70	21.40	/	/	/	/	/
	I – 40 – 38	1.91	3.82	7.65	11.47	15.30	22.95	/	/
	I – 50 – 38	2.30	4.60	9.20	13.81	18.42	27.62	/	/
	I – 60 – 38	2.87	5.74	11.48	17.22	22.96	/	/	/
	T – 33 – 50	1.15	2.30	4.60	6.90	9.20	13.81	18.42	23.02
	T – 50 – 50	1.53	3.07	6.14	9.21	12.28	18.42	24.55	
	T – 33 – 76	0.38	0.77	1.53	2.30	3.07	4.60	6.14	7.67
	T – 50 – 76	0.51	1.02	2.05	3.07	4.09	6.14	8.18	10.23