

Fibreglass Grating

Load Deflection Tables - Pultruded Fibreglass Grating



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

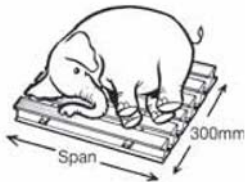
Span (mm)	Type (mm)	Height (mm)	Uniform Load (kg/m ²)								
			489	977	1466	1955	2443	3665	4887	9774	14660
305	I - 40 - 25	25	0.03	0.06	0.09	0.12	0.15	0.23	0.31	0.61	0.92
	I - 50 - 25	25	0.04	0.07	0.11	0.15	0.19	0.28	0.37	0.74	1.11
	I - 60 - 25	25	0.05	0.09	0.14	0.19	0.24	0.35	0.47	0.94	1.41
	I - 40 - 38	38	0.01	0.02	0.03	0.04	0.05	0.08	0.11	0.21	0.32
	I - 50 - 38	38	0.01	0.03	0.04	0.05	0.06	0.1	0.13	0.26	0.39
	I - 60 - 38	38	0.02	0.03	0.05	0.07	0.08	0.12	0.16	0.33	0.49
	T - 33 - 50	50	0.01	0.01	0.02	0.03	0.03	0.05	0.07	0.14	0.21
	T - 50 - 50	50	0.01	0.02	0.03	0.04	0.04	0.07	0.09	0.18	0.27
457	I - 40 - 25	25	0.14	0.28	0.42	0.56	0.7	1.04	1.39	2.79	4.18
	I - 50 - 25	25	0.17	0.34	0.51	0.68	0.84	1.27	1.69	3.38	5.07
	I - 60 - 25	25	0.21	0.43	0.64	0.86	1.07	1.61	2.14	4.29	6.43
	I - 40 - 38	38	0.05	0.1	0.15	0.2	0.25	0.38	0.5	1.01	1.51
	I - 50 - 38	38	0.06	0.12	0.18	0.24	0.3	0.46	0.61	1.22	1.83
	I - 60 - 38	38	0.08	0.15	0.23	0.31	0.39	0.58	0.77	1.55	2.32
	T - 33 - 50	50	0.03	0.07	0.1	0.13	0.17	0.25	0.33	0.67	1
	T - 50 - 50	50	0.04	0.09	0.13	0.17	0.22	0.33	0.43	0.87	1.3
610	I - 40 - 25	25	0.41	0.83	1.24	1.66	2.07	3.11	4.15	8.29	12.44
	I - 50 - 25	25	0.5	1.01	1.51	2.01	2.51	3.77	5.03	10.05	15.08
	I - 60 - 25	25	0.64	1.28	1.91	2.55	3.19	4.78	6.38	12.76	
	I - 40 - 38	38	0.15	0.31	0.46	0.62	0.77	1.16	1.54	3.08	4.62
	I - 50 - 38	38	0.19	0.37	0.56	0.75	0.93	1.4	1.87	3.74	5.61
	I - 60 - 38	38	0.24	0.47	0.71	0.95	1.19	1.78	2.37	4.74	7.11
	T - 33 - 50	50	0.1	0.21	0.31	0.42	0.52	0.78	1.04	2.08	3.12
	T - 50 - 50	50	0.14	0.27	0.41	0.54	0.68	1.01	1.35	2.7	4.05

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Sui Generis International Ltd.

The Chandler's Centre
Hythe Quay
Colchester
CO2 8JB

Tel: 01206 798 798
Fax: 01206 866 666
Email: info@sui generis.co.uk
www.sui generis.co.uk



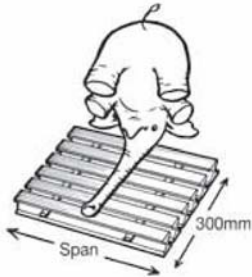
**PULTRUDED FIBREGLASS GRATING -
Deflection sheet for uniform load (300mm wide)** continued

Span (mm)	Type (mm)	Height (mm)	Uniform Load (kg/m ²)								
			489	977	1466	1955	2443	3665	4887	9774	14660
914	I - 40 - 25	25	1.92	3.84	5.76	7.68	9.6	14.4			
	I - 50 - 25	25	2.33	4.65	6.98	9.31	11.64	17.46			
	I - 60 - 25	25	2.96	5.91	8.86	11.82	14.77				
	I - 40 - 38	38	0.72	1.44	2.17	2.89	3.61	5.42	7.22	14.45	
	I - 50 - 38	38	0.88	1.75	2.63	3.5	4.38	6.57	8.75	17.51	
	I - 60 - 38	38	1.11	2.22	3.33	4.44	5.55	8.33	11.11		
	T - 33 - 50	50	0.5	1	1.49	1.99	2.49	3.74	4.98	9.96	14.95
	T - 50 - 50	50	0.65	1.29	1.94	2.59	3.24	4.86	6.48	12.95	
1219	I - 40 - 25	25	5.82	11.62	17.44						
	I - 50 - 25	25	7.05	14.09							
	I - 60 - 25	25	8.95	17.88							
	I - 40 - 38	38	2.23	4.45	6.68	8.91	11.14	16.71			
	I - 50 - 38	38	2.7	5.4	8.1	10.8	13.5				
	I - 60 - 38	38	3.43	6.85	10.28	13.71	17.13				
	T - 33 - 50	50	1.52	3.04	4.56	6.07	7.59	11.39	15.19		
	T - 50 - 50	50	1.98	3.95	5.92	7.9	9.87	14.8			
1372	I - 40 - 38	38	3.53	7.06	10.59	14.13	17.65				
	I - 50 - 38	38	4.28	8.56	12.84	17.12					
	I - 60 - 38	38	5.44	10.86	16.3						
	T - 33 - 50	50	2.4	4.79	7.19	9.59	11.98	17.98			
	T - 50 - 50	50	3.12	6.23	9.35	12.46	15.58				
1524	I - 40 - 38	38	5.31	10.62	15.93						
	I - 50 - 38	38	6.44	12.87							
	I - 60 - 38	38	8.17	16.33							
	T - 33 - 50	50	3.63	7.25	10.87	14.5	18.12	18.12			
	T - 50 - 50	50	4.72	9.42	14.14	18.85					
1676	T - 33 - 50	50	5.2	10.4	15.6						
	T - 50 - 50	50	6.77	13.52							

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The Chandler's Centre
Hythe Quay
Colchester
CO2 8JB

Tel: 01206 798 798
Fax: 01206 866 666
Email: info@sui generis.co.uk
www.sui generis.co.uk



**PULTRUDED FIBREGLASS GRATING -
Deflection sheet for concentrated line load (kg/300mm wide)**

Span (mm)	Type	Height (mm)	Concentrated Line Load (kg/300mm)								
			45	91	136	182	227	341	454	908	1362
305	I - 40 - 25	25	0.05	0.1	0.15	0.2	0.25	0.37	0.5	1	1.49
	I - 50 - 25	25	0.06	0.12	0.18	0.24	0.3	0.45	0.6	1.19	1.79
	I - 60 - 25	25	0.07	0.15	0.22	0.3	0.37	0.56	0.75	1.49	2.24
	I - 40 - 38	38	0.02	0.03	0.05	0.07	0.09	0.13	0.17	0.35	0.52
	I - 50 - 38	38	0.02	0.05	0.07	0.09	0.12	0.18	0.23	0.47	0.7
	I - 60 - 38	38	0.03	0.05	0.08	0.1	0.13	0.2	0.26	0.52	0.78
	T - 33 - 50	50	0.01	0.02	0.03	0.04	0.05	0.08	0.11	0.22	0.33
T - 50 - 50	50	0.01	0.03	0.04	0.06	0.07	0.11	0.15	0.29	0.44	
457	I - 40 - 25	25	0.15	0.3	0.45	0.61	0.76	1.13	1.51	3.02	4.53
	I - 50 - 25	25	0.18	0.36	0.54	0.73	0.91	1.36	1.81	3.63	5.44
	I - 60 - 25	25	0.22	0.45	0.68	0.91	1.13	1.7	2.27	4.53	6.8
	I - 40 - 38	38	0.05	0.11	0.16	0.22	0.27	0.41	0.55	1.09	1.64
	I - 50 - 38	38	0.06	0.13	0.2	0.26	0.33	0.49	0.65	1.31	1.96
	I - 60 - 38	38	0.08	0.16	0.25	0.33	0.41	0.61	0.82	1.64	2.45
	T - 33 - 50	50	0.04	0.07	0.11	0.14	0.18	0.27	0.35	0.71	1.06
T - 50 - 50	50	0.05	0.09	0.14	0.19	0.24	0.35	0.47	0.94	1.41	
610	I - 40 - 25	25	0.33	0.68	1.01	1.35	1.68	2.53	3.37	6.74	10.11
	I - 50 - 25	25	0.4	0.81	1.21	1.62	2.02	3.04	4.04	8.08	12.13
	I - 60 - 25	25	0.5	1.01	1.51	2.03	2.53	3.8	5.05	10.11	15.16
	I - 40 - 38	38	0.12	0.25	0.38	0.5	0.63	0.94	1.25	2.5	3.76
	I - 50 - 38	38	0.15	0.3	0.45	0.6	0.75	1.13	1.5	3.01	4.51
	I - 60 - 38	38	0.19	0.38	0.56	0.75	0.94	1.41	1.88	3.76	5.63
	T - 33 - 50	50	0.08	0.16	0.25	0.33	0.41	0.62	0.82	1.65	2.47
T - 50 - 50	50	0.11	0.22	0.33	0.44	0.55	0.82	1.1	2.19	3.29	

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Deflection sheet for concentrated line load (kg/300mm wide) continued**

Span (mm)	Type (mm)	Height (mm)	Concentrated Line Load (kg/300mm)								
			45	91	136	182	227	341	454	908	1362
914	I - 40 - 25	25	1.03	2.09	3.12	4.17	5.21	7.82	10.41		
	I - 50 - 25	25	1.24	2.5	3.74	5.01	6.25	9.38	12.49		
	I - 60 - 25	25	1.55	3.13	4.68	6.26	7.81	11.73	15.62		
	I - 40 - 38	38	0.39	0.78	1.17	1.57	1.96	2.94	3.92	7.83	11.75
	I - 50 - 38	38	0.47	0.94	1.41	1.88	2.35	3.53	4.7	9.4	14.09
	I - 60 - 38	38	0.58	1.18	1.76	2.35	2.94	4.41	5.87	11.75	17.62
	T - 33 - 50	50	0.26	0.53	0.79	1.06	1.32	1.98	2.63	5.27	7.9
T - 50 - 50	50	0.35	0.7	1.05	1.41	1.76	2.64	3.51	7.02	10.53	
1219	I - 40 - 25	25	2.36	4.76	7.12	9.53	11.88	17.85			
	I - 50 - 25	25	2.83	5.72	8.54	11.43	14.26				
	I - 60 - 25	25	3.53	7.15	10.68	14.29	17.82				
	I - 40 - 38	38	0.9	1.82	2.71	3.63	4.53	6.8	9.06	18.11	
	I - 50 - 38	38	1.08	2.18	3.26	4.36	5.43	8.16	10.87		
	I - 60 - 38	38	1.35	2.72	4.07	5.45	6.79	10.2	13.58		
	T - 33 - 50	50	0.6	1.21	1.8	2.41	3.01	4.52	6.02	12.04	18.05
T - 50 - 50	50	0.8	1.61	2.4	3.22	4.01	6.03	8.02	16.05		
1372	I - 40 - 25	25	3.34	6.75	10.09	13.51	16.84				
	I - 50 - 25	25	4.01	8.1	12.11	16.21					
	I - 60 - 25	25	5.01	10.13	15.14						
	I - 40 - 38	38	1.26	2.56	3.82	5.11	6.38	9.58	12.75	25.5	
	I - 50 - 38	38	1.52	3.07	4.58	6.13	7.65	11.49	15.3		
	I - 60 - 38	38	1.9	3.83	5.73	7.67	9.56	14.37	19.13		
	T - 33 - 50	50	0.84	1.69	2.53	3.38	4.22	6.34	8.44	16.88	
T - 50 - 50	50	1.12	2.26	3.37	4.51	5.63	8.45	11.25			
1524	I - 40 - 38	38	1.71	3.46	5.17	6.92	8.63	12.97	17.26		
	I - 50 - 38	38	2.05	4.15	6.21	8.31	10.36	15.56			
	I - 60 - 38	38	2.57	5.19	7.76	10.38	12.95	19.45			
	T - 33 - 50	50	1.14	2.3	3.44	4.61	5.75	8.63	11.49		
	T - 50 - 50	50	1.52	3.07	4.59	6.14	7.66	11.51	15.32		
1676	T - 33 - 50	50	1.49	3	4.49	6.01	7.5	11.26	14.99		
	T - 50 - 50	50	1.98	4.01	5.99	8.01	9.99	15.01	19.99		

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