

Load Tables for I4015P-FW & I6015P-FW Grating

UNIFORM LOAD TABLE - Deflection in Inches									
Clear Span (in)	Style	UNIFORM LOAD = psf							Ultimate Load (psf)
		50	100	200	300	500	1000	2000	
30	I6015P-FW	0.01	0.02	0.03	0.05	0.08	0.17	0.33	7200
	I4015P-FW	0.01	0.01	0.02	0.04	0.06	0.12	0.24	10840
36	I6015P-FW	0.02	0.03	0.07	0.1	0.17	0.35	-	5105
	I4015P-FW	0.01	0.02	0.04	0.07	0.11	0.22	0.44	8020
42	I6015P-FW	0.03	0.06	0.13	0.19	0.32	-	-	4095
	I4015P-FW	0.02	0.04	0.08	0.12	0.2	0.39	-	5715
48	I6015P-FW	0.05	0.11	0.22	0.33	-	-	-	3255
	I4015P-FW	0.03	0.07	0.13	0.2	0.33	-	-	4565
54	I6015P-FW	0.08	0.18	0.35	-	-	-	-	2425
	I4015P-FW	0.05	0.1	0.21	0.31	-	-	-	3415
60	I6015P-FW	0.12	0.27	-	-	-	-	-	2050
	I4015P-FW	0.08	0.16	0.32	0.48	-	-	-	2845
66	I6015P-FW	0.17	0.39	-	-	-	-	-	1800
	I4015P-FW	0.11	0.23	0.46	-	-	-	-	2233
72	I6015P-FW	0.24	-	-	-	-	-	-	1235
	I4015P-FW	0.16	0.32	-	-	-	-	-	1685

The deflection values listed were derived from results from testing according to the ACMA FRP Composites Grating Manual.

1. The above gratings were tested in accordance with the procedure recommended by the Fiberglass Grating Manufacturers Council of the Composites Fabricators Association.
2. Deflections have been limited to approximately 1/2"
3. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a maximum of ONE-HALF the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance.

For applications at elevated temperatures, consult the factory. The designer is further referenced to ASCE Structural Plastics Design Manual.

CONCENTRATED LINE LOAD TABLE - Deflection in Inches									
Clear Span (in)	Style	LINE LOAD = Lbs per Foot of Panel Width (lb/ft of width)							Ultimate Load (psf)
		50	100	200	300	500	1000	2000	
30	I6015P-FW	0.01	0.02	0.03	0.04	0.07	0.12	0.22	9000
	I4015P-FW	0.01	0.01	0.02	0.03	0.05	0.09	0.16	13550
36	I6015P-FW	0.01	0.03	0.04	0.06	0.1	0.18	0.35	7660
	I4015P-FW	0.01	0.02	0.04	0.05	0.08	0.14	0.25	12030
42	I6015P-FW	0.01	0.03	0.06	0.08	0.13	0.26	-	7165
	I4015P-FW	0.01	0.02	0.04	0.06	0.1	0.19	0.36	10000
48	I6015P-FW	0.02	0.04	0.08	0.12	0.2	0.38	-	6515
	I4015P-FW	0.02	0.04	0.06	0.09	0.14	0.27	-	9135
54	I6015P-FW	0.03	0.05	0.11	0.17	0.27	-	-	5455
	I4015P-FW	0.03	0.05	0.09	0.13	0.21	0.39	-	7690
60	I6015P-FW	0.04	0.08	0.15	0.23	0.37	-	-	5130
	I4015P-FW	0.03	0.06	0.11	0.16	0.26	-	-	7115
66	I6015P-FW	0.05	0.1	0.2	0.29	0.49	-	-	4960
	I4015P-FW	0.04	0.07	0.14	0.21	0.34	-	-	6140
72	I6015P-FW	0.06	0.12	0.25	0.37	-	-	-	3714
	I4015P-FW	0.04	0.08	0.17	0.26	0.43	-	-	5060

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