

# Load Tables for I4015P & I6015P Grating

UNIFORM LOAD TABLE - Deflection in Inches												
Clear Span (in)	Style	UNIFORM LOAD = psf									Max Rec Load (psf)	Ultimate Load (psf)
		50	65	100	200	300	400	500	1000	2000		
12	I6015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	9370	18750
	I4015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	14060	28120
18	I6015	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.02	0.03	0.07	5410	10830
	I4015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	8120	16240
24	I6015	<0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.08	0.17	3750	7500
	I4015	<0.01	<0.01	<0.01	0.01	0.01	0.02	0.03	0.05	0.11	5620	11250
30	I6015	0.01	0.01	0.02	0.04	0.06	0.08	0.10	0.19	0.39	2620	5250
	I4015	<0.01	<0.01	0.01	0.03	0.04	0.05	0.07	0.13	0.26	3930	7870
36	I6015	0.02	0.03	0.04	0.08	0.12	0.16	0.20	0.39	—	1980	3970
	I4015	0.01	0.02	0.03	0.05	0.08	0.11	0.13	0.26	—	2970	5950
42	I6015	0.04	0.05	0.07	0.14	0.21	0.28	0.36	—	—	1510	3030
	I4015	0.03	0.03	0.05	0.09	0.14	0.19	0.24	—	—	2270	4540
48	I6015	0.06	0.08	0.12	0.24	0.36	0.48	—	—	—	1210	2420
	I4015	0.04	0.05	0.08	0.16	0.24	0.32	—	—	—	1810	3630
54	I6015	0.09	0.12	0.19	0.38	—	—	—	—	—	1010	2030
	I4015	0.06	0.08	0.13	0.25	—	—	—	—	—	1520	3040
60	I6015	0.14	0.18	0.28	0.56	—	—	—	—	—	870	1750
	I4015	0.09	0.12	0.19	0.37	—	—	—	—	—	1310	2620
66	I6015	0.21	0.27	0.41	—	—	—	—	—	—	720	1450
	I4015	0.14	0.18	0.27	—	—	—	—	—	—	1080	2170
72	I6015	0.29	0.38	0.58	—	—	—	—	—	—	610	1230
	I4015	0.19	0.25	0.39	—	—	—	—	—	—	920	1840

CONCENTRATED LINE LOAD TABLE - Deflection in Inches												
Clear Span (in)	Style	LINE LOAD = Lbs per Foot of Panel Width (lb/ft of width)									Max Rec Load (lb/ft)	Ultimate Load (lb/ft)
		50	65	100	200	300	400	500	1000	2000		
12	I6015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	4680	9370
	I4015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	7020	14050
18	I6015	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.02	0.04	0.07	4060	8120
	I4015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	0.05	6090	12180
24	I6015	<0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.07	0.13	3750	7500
	I4015	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.02	0.05	0.09	5620	11250
30	I6015	0.01	0.01	0.01	0.02	0.04	0.05	0.06	0.12	0.25	3280	6570
	I4015	<0.01	<0.01	<0.01	0.01	0.03	0.03	0.04	0.08	0.17	4920	9850
36	I6015	0.01	0.01	0.02	0.04	0.06	0.08	0.10	0.21	0.42	2970	5950
	I4015	<0.01	<0.01	0.01	0.03	0.04	0.05	0.07	0.14	0.28	4460	8920
42	I6015	0.02	0.02	0.03	0.07	0.10	0.13	0.16	0.33	—	2650	5310
	I4015	0.01	0.01	0.02	0.05	0.07	0.09	0.11	0.22	—	3980	7960
48	I6015	0.02	0.03	0.05	0.10	0.14	0.19	0.24	0.48	—	2420	4840
	I4015	0.01	0.02	0.03	0.07	0.09	0.13	0.16	0.32	—	3630	7260
54	I6015	0.03	0.04	0.07	0.13	0.20	0.27	0.33	—	—	2290	4580
	I4015	0.02	0.03	0.05	0.09	0.13	0.18	0.22	—	—	3430	6870
60	I6015	0.04	0.06	0.09	0.18	0.27	0.36	0.45	—	—	2190	4380
	I4015	0.03	0.04	0.06	0.12	0.18	0.24	0.30	—	—	3280	6570
66	I6015	0.06	0.08	0.12	0.24	0.36	0.48	—	—	—	2000	4000
	I4015	0.04	0.05	0.08	0.16	0.24	0.32	—	—	—	3000	6000
72	I6015	0.08	0.10	0.16	0.31	0.47	—	—	—	—	1845	3690
	I4015	0.05	0.07	0.11	0.21	0.31	—	—	—	—	2760	5530

- The above gratings were tested in accordance with the procedure recommended by the Fiberglass Grating Manufacturers Council of the Composites Fabricators Association.
- Deflections have been limited to approximately 1/2" or Clear Span/100 as recommended by the Fiberglass Grating Manufacturers Council.
- Walking loads, typically 50-65 PSF maximum are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 3/8" or CLEAR SPAN divided by 125, for a firmer feel, limit deflection to the lesser of 1/4" or CLEAR SPAN divided by 200.
- The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 2.1 factor of safety on ULTIMATE CAPACITY.
- ULTIMATE CAPACITY represents a complete and total failure of grating. Values are provided to illustrate the reserve strength of the grating at a given span and are NOT to be used for design. Functionality of grating is limited to MAX RECOMMENDED LOAD.
- 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.