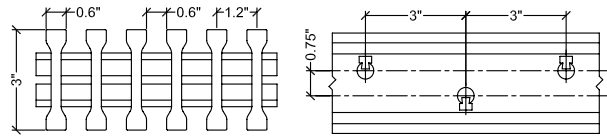


Product Group: Pultruded Fiberglass Grating

1" Deep I-Bearing Bar (I 30-50)

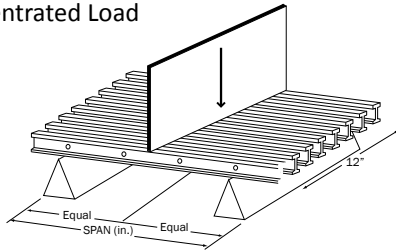
3" Thick / 50% Open



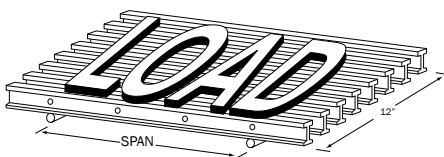
Span (inches)	CONCENTRATED LOAD in lbs/ft of width								Max Load	Apparent El x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	<0.001	<0.001	<0.001	<0.001	0.001	0.002	0.004	0.008	46720	8.56
18	<0.001	<0.001	0.001	0.002	0.002	0.004	0.008	0.016	31147	15.02
24	<0.001	0.001	0.002	0.003	0.003	0.007	0.014	0.027	23360	21.12
30	0.001	0.002	0.003	0.004	0.005	0.010	0.021	0.042	18688	26.84
36	0.002	0.003	0.005	0.006	0.008	0.015	0.030	0.060	15573	32.25
42	0.002	0.004	0.006	0.008	0.011	0.021	0.042	0.084	13349	36.75
48	0.003	0.006	0.009	0.011	0.014	0.029	0.057	0.115	11680	40.14
54	0.004	0.008	0.011	0.015	0.019	0.038	0.076	0.153	10382	43.00
60	0.005	0.010	0.015	0.020	0.025	0.050	0.100	0.201	9344	44.86
66	0.007	0.013	0.020	0.026	0.033	0.065	0.130	0.260	8495	46.00
72	0.008	0.017	0.025	0.033	0.041	0.083	0.165	0.331	7787	47.00
Properties Per Foot of Width									# of Bars	
A = 12.04 in ² I = 11.47 in ⁴ S = 7.65 in ³									10	

Span (inches)	UNIFORM LOAD in lbs/ft ²								Max Load	Apparent El x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.003	0.005	59802	8.56
18	<0.001	<0.001	0.001	0.002	0.002	0.004	0.008	0.015	26578	15.02
24	<0.001	0.002	0.003	0.003	0.004	0.009	0.017	0.034	14950	21.12
30	0.002	0.003	0.005	0.007	0.008	0.016	0.033	0.065	9568	26.84
36	0.003	0.006	0.008	0.011	0.014	0.028	0.057	0.113	6645	32.25
42	0.005	0.009	0.014	0.018	0.023	0.046	0.092	0.184	4882	36.75
48	0.007	0.014	0.022	0.029	0.036	0.072	0.143	0.287	3738	40.14
54	0.011	0.021	0.032	0.043	0.054	0.107	0.215	0.429	2953	43.00
60	0.016	0.031	0.047	0.063	0.078	0.157	0.313	0.627	2392	44.86
66	0.022	0.045	0.067	0.090	0.112	0.224	0.448		1977	46.00
72	0.031	0.062	0.093	0.124	0.155	0.310	0.620		1661	47.00
Load Bar Depth									3"	
Bar Centers									1.2"	
Weight/sq ft									10.34	

Concentrated Load



Uniform Load



1. These tables were developed in accordance with the test method developed by the Fiberglass Grating Manufacturers Council (FGMC) of the American Composites Manufacturers Association (ACMA) for the Fiberglass Grating Standard.
2. The designer should not exceed MAXIMUM RECOMMENDED load at any time. MAXIMUM LOAD represents a factor of safety of 2:1 for pultruded grating on ULTIMATE CAPACITY. ULTIMATE CAPACITY represents MAX LOAD observed at initial fracture.
3. Walking loads for maintenance traffic are typically a live load of 50 PSF. Deflections for worker comfort are typically limited to 0.375" (3/8") or SPAN divided by 120 under full live load. For a firmer feel under full live load or a line load 250 lbs/ft of width, limit deflections to 0.25" (1/4") or SPAN divided by 200.
4. The loads represented are for STATIC LOAD CONDITIONS at ambient temperature. Deflections for impact loads or dynamic loads will MULTIPLY the deflections shown by 2. Long term loads will result in added deflection due to creep in the material and will require higher factors of safety to ensure acceptable performance.
5. Deflections are limited to 0.5" (1/2") as recommended by the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association.

When quality counts... Make it Marco!