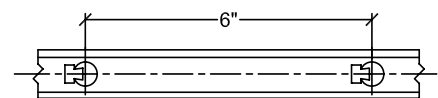
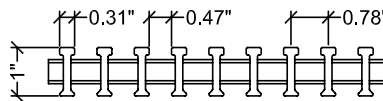
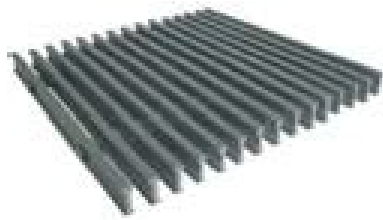


Product Group: Pultruded Fiberglass Grating

1" Deep I-Bearing Bar (I 10-60-ADA)

1" Thick / 60% Open

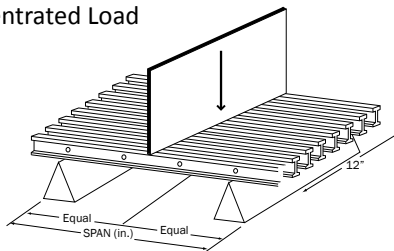


Span (inches)	CONCENTRATED LOAD in lbs/ft of width								Max Load	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.002	0.003	0.005	0.006	0.008	0.015	0.030	0.060	6181	1.20
18	0.004	0.008	0.012	0.016	0.021	0.041	0.082	0.164	4121	1.48
24	0.009	0.017	0.026	0.035	0.044	0.087	0.175	0.349	3091	1.65
30	0.016	0.033	0.049	0.065	0.082	0.164	0.327		2472	1.72
36	0.028	0.055	0.083	0.110	0.138	0.276			2060	1.76
42	0.043	0.086	0.129	0.172	0.214	0.429			1766	1.80
48	0.063	0.127	0.190	0.253	0.316				1545	1.82
54	0.089	0.178	0.267	0.357	0.446				1374	1.84
60	0.121	0.242	0.363	0.484	0.605				1237	1.86
66	0.160	0.320	0.480	0.641					1124	1.87
72	0.207	0.414	0.620						1030	1.88

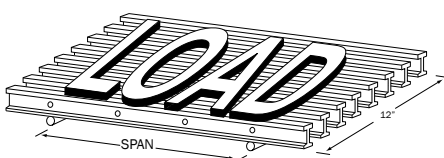
Span (inches)	UNIFORM LOAD in lbs/ft ²								Max Load	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.002	0.003	0.004	0.005	0.009	0.019	0.038	7912	1.20
18	0.004	0.008	0.012	0.015	0.019	0.038	0.077	0.154	3516	1.48
24	0.011	0.022	0.033	0.044	0.055	0.109	0.218	0.436	1978	1.65
30	0.026	0.051	0.077	0.102	0.128	0.255			1266	1.72
36	0.052	0.104	0.155	0.207	0.259				879	1.76
42	0.094	0.188	0.281	0.375					646	1.80
48	0.158	0.316	0.475	0.633					494	1.82
54	0.251	0.501							391	1.84
60	0.378								316	1.86
66	0.551								261	1.87
72	0.776								220	1.88

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 2.90 in ² I = 0.32 in ⁴ S = 0.64 in ³	15	1"	0.78"	2.92

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!