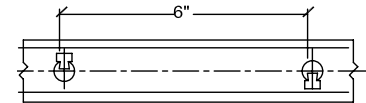
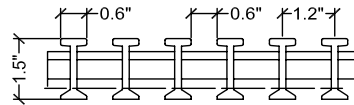


Product Group: Pultruded Fiberglass Grating

1" Deep I-Bearing Bar (I 15-50)

1.5" Thick / 50% Open

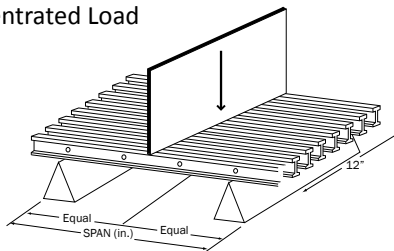


Span (inches)	CONCENTRATED LOAD in lbs/ft of width								Max Load	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.001	0.002	0.003	0.004	0.007	0.015	0.029	11055	2.46
18	0.002	0.003	0.005	0.006	0.008	0.015	0.030	0.061	7370	4.00
24	0.003	0.006	0.009	0.012	0.015	0.030	0.060	0.119	5528	4.84
30	0.005	0.011	0.016	0.021	0.027	0.054	0.107	0.214	4422	5.25
36	0.009	0.018	0.027	0.036	0.045	0.089	0.178	0.356	3685	5.46
42	0.014	0.028	0.042	0.056	0.070	0.139	0.279	0.558	3159	5.53
48	0.021	0.041	0.062	0.083	0.103	0.206	0.413		2764	5.58
54	0.029	0.059	0.088	0.117	0.146	0.293	0.586		2457	5.60
60	0.040	0.080	0.120	0.160	0.200	0.401			2211	5.61
66	0.053	0.106	0.160	0.213	0.266	0.532			2010	5.63
72	0.069	0.138	0.207	0.276	0.345	0.689			1843	5.64

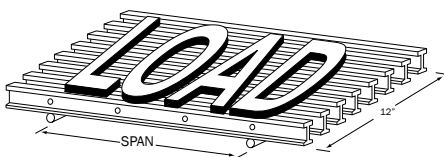
Span (inches)	UNIFORM LOAD in lbs/ft ²								Max Load	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	<0.001	0.001	0.001	0.002	0.002	0.005	0.009	0.018	13992	2.46
18	0.001	0.003	0.004	0.006	0.007	0.014	0.028	0.057	9328	4.00
24	0.004	0.007	0.011	0.015	0.019	0.037	0.074	0.149	5878	4.84
30	0.008	0.017	0.025	0.034	0.042	0.084	0.168	0.335	3486	5.25
36	0.017	0.033	0.050	0.067	0.083	0.167	0.334	0.668	2485	5.46
42	0.031	0.061	0.092	0.122	0.153	0.305	0.610		1806	5.53
48	0.052	0.103	0.155	0.206	0.258	0.516			1384	5.58
54	0.082	0.165	0.247	0.330	0.412				1091	5.60
60	0.125	0.250	0.376	0.501	0.626				886	5.61
66	0.183	0.366	0.548						730	5.63
72	0.259	0.517							614	5.64

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 3.89 in ² I = 1.11 in ⁴ S = 1.47 in ³	10	1.5"	1.2"	3.60

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!