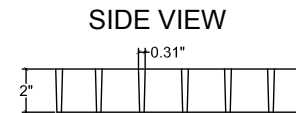
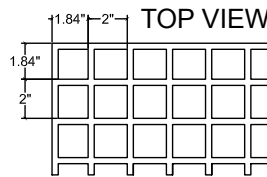


Product Group: Molded Fiberglass Grating

2" x 2" x 2" Square Grid

2" Thick / 71% Open

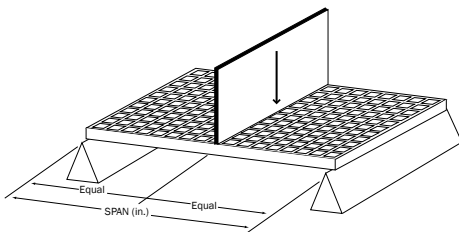


Span (inches)	CONCENTRATED LOAD in lbs/ft of width								Max Load	Apparent El x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.002	0.003	0.004	0.005	0.010	0.020	0.040	4632	1.80
18	0.003	0.006	0.009	0.011	0.014	0.029	0.057	0.144	3088	2.13
24	0.006	0.012	0.018	0.024	0.030	0.060	0.120	0.240	2316	2.40
30	0.011	0.023	0.034	0.045	0.056	0.113	0.225	0.450	1853	2.50
36	0.019	0.038	0.057	0.076	0.095	0.191	0.381		1544	2.55
42	0.030	0.059	0.089	0.118	0.148	0.296	0.591		1323	2.61
48	0.043	0.087	0.130	0.174	0.217	0.435			1158	2.65
54	0.061	0.122	0.183	0.244	0.305	0.610			1029	2.69
60	0.083	0.166	0.249	0.332	0.415				926	2.71

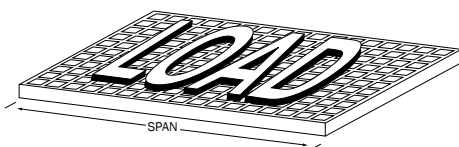
Span (inches)	UNIFORM LOAD in lbs/ft ²								Max Load	Apparent El x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	<0.001	0.001	0.002	0.003	0.003	0.006	0.013	0.025	9264	1.80
18	0.003	0.005	0.008	0.011	0.013	0.027	0.053	0.107	4117	2.13
24	0.008	0.015	0.023	0.030	0.038	0.075	0.150	0.300	2316	2.40
30	0.018	0.035	0.053	0.070	0.088	0.176	0.352		1482	2.50
36	0.036	0.071	0.107	0.143	0.179	0.357			1029	2.55
42	0.065	0.129	0.194	0.259	0.323	0.647			756	2.61
48	0.109	0.217	0.326	0.435	0.543				579	2.65
54	0.171	0.343	0.514	0.686					457	2.69
60	0.259	0.519							371	2.71

Properties Per Foot of Width	# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 3.12 in ² I = 1.03 in ⁴ S = 1.03 in ³	6	0.31"(5/16")	2"	4.51

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 4:1 for molded 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!