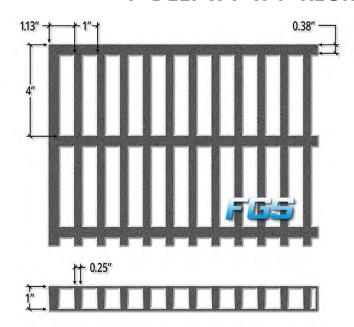


1" DEEP x 1" x 4" RECTANGULAR MESH GRATING



Bars ► 12
Bar Width ► 1/4"
Open Area ► 68%
Load Bar Centers ► 1"

Approximate Weight ► 2.61 lbs/ft²

Engineering Properties Per Foot of Width A > 2.69 in² I > 0.22 in⁴ S > 0.45 in³



				UI	NIFORM	LOAD	DEFLEC	TION				
		50 lbs/ft ²	100 lbs/ft²	150 lbs/ft ²	200 lbs/ft ²	250 lbs/ft ²	500 lbs/ft ²	1000 lbs/ft ²	2000 lbs/ft ²		Maximum Load	Apparent El x 10^6 (Lbs/ln²)
12" SPAN	 	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	0.10	•	3668	0.45
18" SPAN		0.01	0.02	0.03	0.05	0.06	0.11	0.23	0.46		1892	0.50
24" SPAN	 	0.03	0.07	0.10	0.14	0.17	0.35	0.69		•	961	0.52
30" SPAN		0.08	0.17	0.25	0.33	0.42					615	0.53
36" SPAN	 	0.17	0.34	0.51	0.68					•	427	0.54
42" SPAN		0.30	0.60								314	0.56
46" SPAN	 	0.43								•	287	0.57

				CONCEN	ITRATE	LINE	LOAD I	DEFLECTI	ON			
		50 lbs/ft²	100 lbs/ft²	150 lbs/ft ²	200 lbs/ft²	250 lbs/ft ²	500 lbs/ft ²	1000 lbs/ft ²	2000 lbs/ft ²		Maximum Load	Apparent El x 10^6 (Lbs/In²)
12" SPAN	•	<0.01	<0.01	0.01	0.02	0.02	0.04	0.08	0.16	•	1834	0.45
18" SPAN		0.01	0.02	0.04	0.05	0.06	0.12	0.24	0.49		1419	0.50
24" SPAN	•	0.03	0.06	0.08	0.11	0.14	0.28	0.56		•	961	0.52
30" SPAN		0.05	0.11	0.16	0.21	0.27	0.53				769	0.53
36" SPAN	•	0.09	0.18	0.27	0.36	0.45				•	641	0.54
42" SPAN		0.14	0.28	0.41	0.55	0.69					549	0.56
46" SPAN	•	0.18	0.36							•	501	0.57

			POINT	LOAD	DEFLECTION					
		100 lbs	200 lbs	500 lbs	750 lbs	1000 lbs	1500 lbs	2000 lbs		
18" SPAN	•	<0.01	0.01	0.04	0.05	0.07	0.11	0.15		
24" SPAN		0.02	0.04	0.09	0.14	0.19	0.28	0.37		
30" SPAN	 	0.04	0.07	0.18	0.27	0.37	0.55			
36" SPAN		0.06	0.11	0.29	0.43	0.57				
42" SPAN	 	0.09	0.17	0.43	0.65					

- 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.
- The designer should not exceed MAXIMUM RECOMMENDED load at any time. MAXIMUM LOAD represents a 5:1 factor of safety on ULTIMATE CAPACITY. ULTIMATE CAPACITY represents MAX LOAD observed at initial fracture.
- Walking loads for maintenance traffic are typically a live load of 50 PSF. Deflections for worker comfort are typically limited to 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 1/4" or SPAN divided by 200.
- The loads represented are for STATIC LOAD CONDITIONS at ambient temperature. Deflection 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.
- Deflections are limited to 1/2" as recommended by the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association.
- For applications at elevated temperatures, consult Fiberglass Grating Systems.