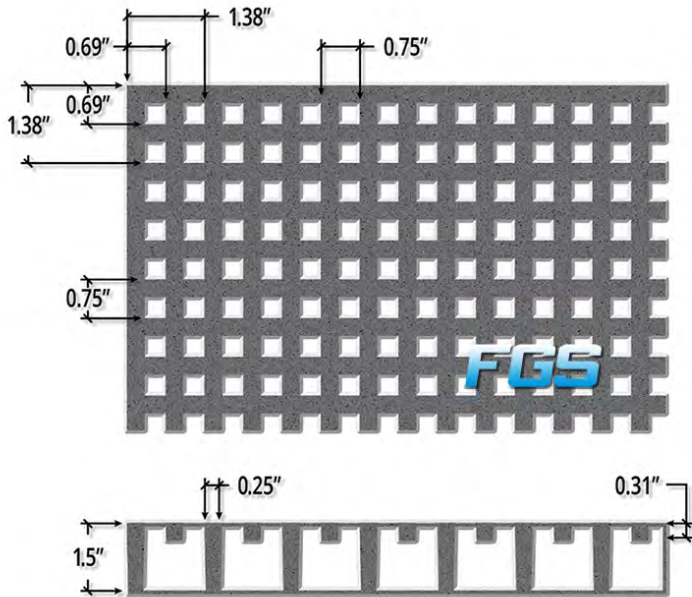


1 1/2 DEEP x 3/4" MINI MESH MOLDED GRATING



Bars ▶ 8
 Bar Width ▶ 1/4"
 Open Area ▶ 44%
 Load Bar Centers ▶ 3/4"

Approximate Weight ▶ 4.75 lbs/ft²

Engineering Properties Per Foot of Width
 A ▶ 3.29 in² I ▶ 0.74 in⁴ S ▶ 0.90 in³



UNIFORM LOAD DEFLECTION

	50 lbs/ft ²	100 lbs/ft ²	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 EI x 10 ⁻⁶ (Lbs/in ⁴)
12" SPAN ▶	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	▶ 6180	1.14
18" SPAN ▶	<0.01	<0.01	0.01	0.02	0.02	0.04	0.08	0.16	▶ 2747	1.43
24" SPAN ▶	0.01	0.02	0.03	0.04	0.05	0.11	0.22	0.44	▶ 1545	1.64
30" SPAN ▶	0.03	0.05	0.08	0.10	0.13	0.25	0.50	---	▶ 989	1.75
36" SPAN ▶	0.05	0.10	0.15	0.20	0.25	0.50	---	---	▶ 687	1.83
42" SPAN ▶	0.09	0.18	0.27	0.36	0.45	---	---	---	▶ 505	1.87
48" SPAN ▶	0.15	0.30	0.45	0.60	---	---	---	---	▶ 386	1.90
54" SPAN ▶	0.24	0.48	---	---	---	---	---	---	▶ 305	1.93
60" SPAN ▶	0.36	---	---	---	---	---	---	---	▶ 247	1.94

CONCENTRATED LINE LOAD DEFLECTION

	50 lbs/ft ²	100 lbs/ft ²	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 EI x 10 ⁻⁶ (Lbs/in ⁴)
12" SPAN ▶	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.06	▶ 3090	1.14
18" SPAN ▶	<0.01	<0.01	0.01	0.02	0.02	0.04	0.09	0.17	▶ 2060	1.43
24" SPAN ▶	<0.01	0.02	0.03	0.04	0.04	0.09	0.18	0.35	▶ 1545	1.64
30" SPAN ▶	0.02	0.03	0.05	0.06	0.08	0.16	0.32	0.64	▶ 1236	1.75
36" SPAN ▶	0.03	0.05	0.08	0.11	0.13	0.27	0.53	---	▶ 1030	1.83
42" SPAN ▶	0.04	0.08	0.12	0.17	0.21	0.41	---	---	▶ 883	1.87
48" SPAN ▶	0.06	0.12	0.18	0.24	0.30	0.60	---	---	▶ 773	1.90
54" SPAN ▶	0.08	0.17	0.25	0.34	0.42	---	---	---	▶ 687	1.93
60" SPAN ▶	0.12	0.23	0.35	0.46	0.58	---	---	---	▶ 618	1.94

POINT LOAD DEFLECTION

	100 lbs	200 lbs	500 lbs	750 lbs	1000 lbs	1500 lbs	2000 lbs
18" SPAN ▶	<0.01	<0.01	0.02	0.02	0.03	0.05	0.06
24" SPAN ▶	<0.01	0.01	0.04	0.05	0.07	0.11	0.14
30" SPAN ▶	0.01	0.02	0.06	0.09	0.12	0.18	0.24
36" SPAN ▶	0.02	0.03	0.09	0.13	0.17	0.26	0.34
42" SPAN ▶	0.3	0.05	0.13	0.20	0.27	0.40	0.53
46" SPAN ▶	0.03	0.07	0.17	0.25	0.33	0.50	0.66

- ▶ 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*.