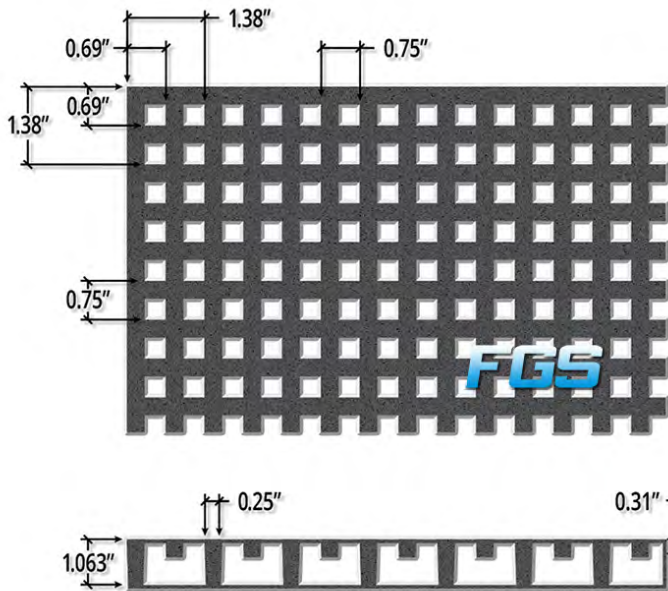


# 1 DEEP x 3/4" MINI MESH MOLDED GRATING



- Bars ▶ 8
- Bar Width ▶ 1/4"
- Open Area ▶ 44%
- Load Bar Centers ▶ 1.5"

Approximate Weight ▶ 2.90 lbs/ft<sup>2</sup>

Engineering Properties Per Foot of Width  
 A ▶ 2.34 in<sup>2</sup> I ▶ 0.23 in<sup>4</sup> S ▶ 0.37 in<sup>3</sup>



## UNIFORM LOAD DEFLECTION

	50 lbs/ft <sup>2</sup>	100 lbs/ft <sup>2</sup>	150 lbs/ft <sup>2</sup>	200 lbs/ft <sup>2</sup>	250 lbs/ft <sup>2</sup>	500 lbs/ft <sup>2</sup>	1000 lbs/ft <sup>2</sup>	2000 lbs/ft <sup>2</sup>	Maximum Load	Apparent EI x 10 <sup>-6</sup> (Lbs/In <sup>4</sup> )
12" SPAN ▶	<0.01	<0.01	<0.01	0.01	---	0.03	0.06	---	1550	0.38
18" SPAN ▶	0.01	0.03	0.04	0.06	---	0.14	0.28	---	690	0.41
24" SPAN ▶	0.04	0.08	0.12	0.16	---	0.41	---	---	380	0.44
30" SPAN ▶	0.10	0.19	0.29	0.39	---	---	---	---	240	0.45
36" SPAN ▶	0.20	---	---	---	---	---	---	---	170	0.46
42" SPAN ▶	0.37	---	---	---	---	---	---	---	120	0.46

## CONCENTRATED LINE LOAD DEFLECTION

	50 lbs/ft <sup>2</sup>	100 lbs/ft <sup>2</sup>	150 lbs/ft <sup>2</sup>	200 lbs/ft <sup>2</sup>	250 lbs/ft <sup>2</sup>	500 lbs/ft <sup>2</sup>	1000 lbs/ft <sup>2</sup>	2000 lbs/ft <sup>2</sup>	Maximum Load	Apparent EI x 10 <sup>-6</sup> (Lbs/In <sup>4</sup> )
12" SPAN ▶	<0.01	<0.01	0.01	0.02	0.02	0.05	0.10	0.19	770	0.38
18" SPAN ▶	0.01	0.03	0.04	0.06	0.07	0.15	0.30	---	510	0.41
24" SPAN ▶	0.03	0.07	0.10	0.13	0.16	0.33	---	---	380	0.44
30" SPAN ▶	0.06	0.12	0.19	0.25	0.31	---	---	---	310	0.45
36" SPAN ▶	0.11	0.21	0.32	0.43	---	---	---	---	250	0.46
42" SPAN ▶	0.17	0.34	---	---	---	---	---	---	220	0.46
48" SPAN ▶	0.25	---	---	---	---	---	---	---	---	0.46
54" SPAN ▶	0.36	---	---	---	---	---	---	---	---	0.46
60" SPAN ▶	0.49	---	---	---	---	---	---	---	---	0.46

## POINT LOAD DEFLECTION

	100 lbs	200 lbs	500 lbs	750 lbs	1000 lbs	1500 lbs	2000 lbs
12" SPAN ▶	---	---	---	---	---	---	---
18" SPAN ▶	---	---	---	---	---	---	---
24" SPAN ▶	---	---	---	---	---	---	---
30" SPAN ▶	---	---	---	---	---	---	---
36" SPAN ▶	---	---	---	---	---	---	---

- ▶ 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*.