



PROGrid® Molded Grating

Proven corrosion resistance is just one of the benefits of our PROGrid® molded grating. It's strong, lightweight and performs reliably for years, even in extreme conditions. Top surface options also provide excellent slip resistance for worker safety.

Long Service Life

The high resin-to-glass ratio (approximately 65% resin to 35% glass by weight) provides excellent service life, even in the most demanding applications.

Less Waste

Interwoven square mesh construction provides bi-directional strength, so you can cut grating to fit and make the most efficient use of each panel.

Available Resin Systems

PROGrid® molded grating is available in three resin systems, each providing different levels of corrosion protection. All three resin systems meet Class 1 Flame Spread Rating per ASTM E-84 test standards.

GP: A general-purpose orthophthalic polyester resin system that offers good corrosion resistance at an economical price. Standard colors: Yellow and Light Gray

IFR: A premium-grade isophthalic polyester resin system that provides excellent corrosion protection. Standard colors: Green, Yellow, Dark Gray and Light Gray

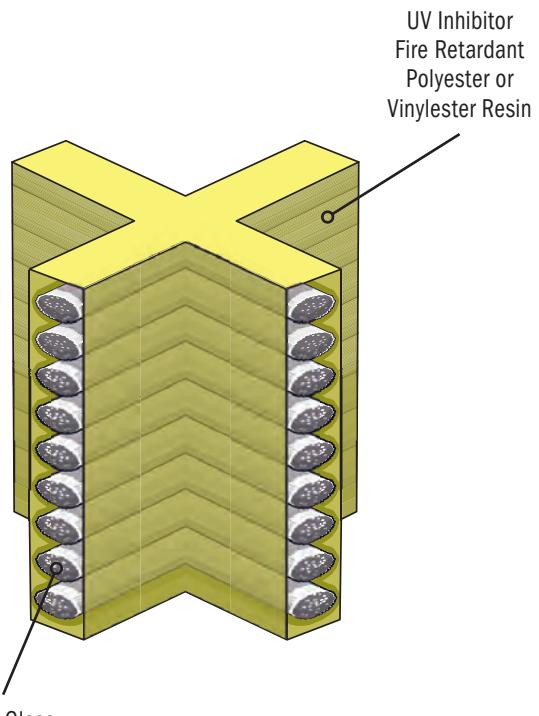
VFR: A vinylester resin system that provides the highest level of corrosion protection. Standard colors: Orange and Dark Gray

Available Top Surfaces

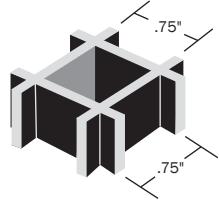
PROGrid® molded grating is available in square or rectangular mesh patterns with either Meniscus or Grit-Top slip-resistant top surfaces.

Grit-Top: Quartz grit anti-slip surface

Meniscus: Concave, half-moon cross section with no grit

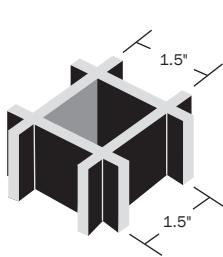


Available Grid Dimensions



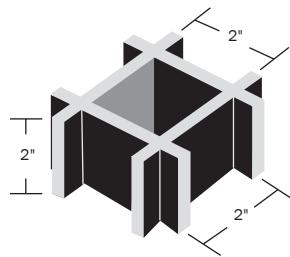
**1" or 1 1/2" thick,
3/4" x 3/4" Square Grid**

Bearing bars 0.25" thick
Open area of 69%



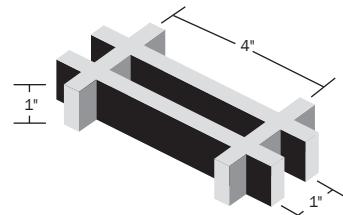
**1" or 1 1/2" thick,
1 1/2" x 1 1/2" Square Grid**

Bearing bars 0.25" thick
Open area of 69%



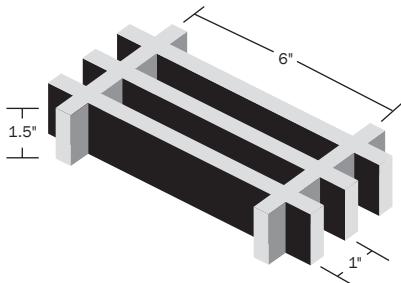
**2" thick,
2" x 2" Square Grid**

Bearing bars 0.3125" thick
Open area of 71%



**1" thick,
1" x 4" Rectangular Grid**

Bearing bars 0.25" thick
Open area of 68%



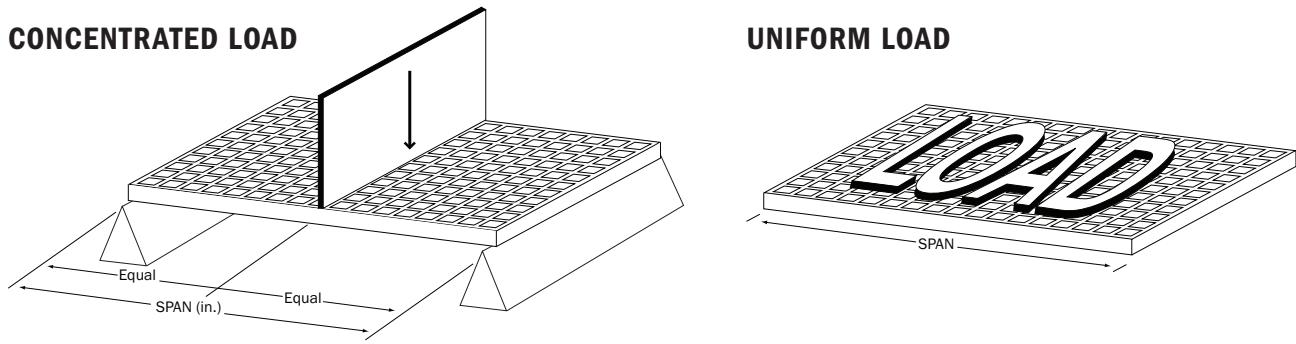
**1 1/2" thick,
1" x 6" Rectangular Grid**

Bearing bars 0.6" thick
Open area of 38%

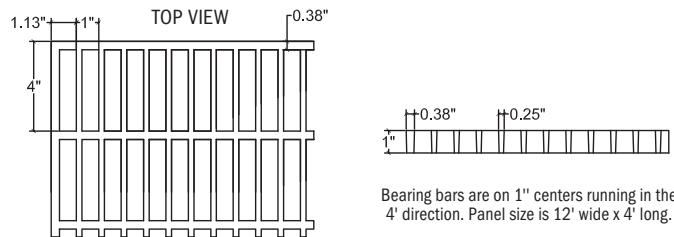
Available Panel Sizes*	
1" x 3/4" x 3/4" (Square)	4' wide x 12' long
1 1/2" x 3/4" x 3/4" (Square)	4' wide x 12' long
1" x 1 1/2" x 1 1/2" (Square)	3' wide x 10' long / 4' wide x 8' long / 4' wide x 12' long
1 1/2" x 1 1/2" x 1 1/2" (Square)	3' wide x 10' long / 3' wide x 12' long / 4' wide x 12' long
2" x 2" x 2" (Square)	4' wide x 12' long / 5' wide x 12' long
1" x 1" x 4" (Rectangular)	12' wide x 4' long / 10' wide x 3' long
1 1/2" x 1" x 6" (Rectangular)	4' wide x 12' long

*Note: Not all panel sizes are stocked in every resin series and color. Check website for availability.

PROGrid® Molded Grating Load and Deflection Data



1. The following 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 4:1 factor of safety 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" ($\frac{3}{8}$ ") or SPAN divided by 120 under full live load. For a firmer feel under full live load or a line load 250 lb/ft of width, limit deflections to 0.25" ($\frac{1}{4}$ ") 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" ($\frac{1}{2}$) as recommended by the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association.

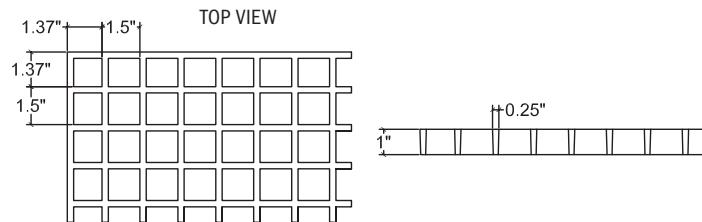
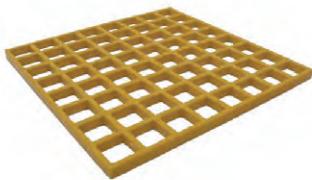


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.004	0.008	0.012	0.016	0.020	0.040	0.079		1834	0.45
18	0.012	0.024	0.036	0.049	0.061	0.122	0.243		1419	0.50
24	0.028	0.056	0.083	0.111	0.139	0.278	0.555		961	0.52
30	0.053	0.107	0.160	0.213	0.266	0.533		769	0.53	
36	0.090	0.181	0.271	0.362	0.452			641	0.54	
42	0.138	0.276	0.413	0.551	0.689			549	0.56	
46	0.178	0.355						501	0.57	

Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.002	0.005	0.007	0.010	0.012	0.025	0.050	0.099	3668	0.45
18	0.011	0.023	0.034	0.046	0.057	0.114	0.228		1892	0.50
24	0.035	0.069	0.104	0.139	0.174	0.347			961	0.52
30	0.083	0.167	0.250	0.333	0.416				615	0.53
36	0.170	0.339	0.509	0.679					427	0.54
42	0.301	0.603							314	0.56
46	0.430								287	0.57

Properties Per Foot of Width			# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 2.69 in ²	I = 0.22 in ⁴	S = 0.45 in ³	12	0.25"	1"	2.61

1" x 1½" x 1½"
Square Grid
1" Thick
69% Open

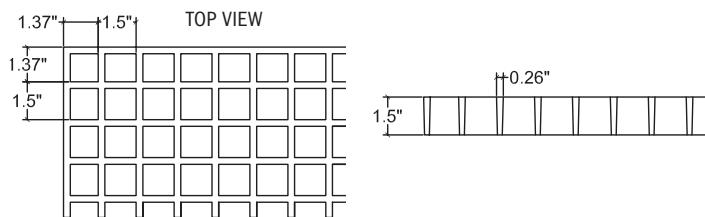


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.006	0.011	0.017	0.023	0.029	0.057	0.114		1189	0.31
18	0.018	0.035	0.053	0.071	0.089	0.177			934	0.34
24	0.040	0.080	0.120	0.160	0.199	0.399			668	0.36
30	0.076	0.152	0.228	0.304	0.380				534	0.37
36	0.128	0.256	0.384	0.512	0.640				360	0.38

Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.004	0.007	0.011	0.014	0.018	0.036	0.071	0.143	2378	0.31
18	0.017	0.033	0.050	0.066	0.083	0.166	0.332		1245	0.34
24	0.050	0.100	0.150	0.199	0.249	0.498			668	0.36
30	0.119	0.237	0.356	0.475	0.593				427	0.37
36	0.240	0.480							240	0.38
42	0.431								205	0.39

Properties Per Foot of Width				# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 1.79 in ²	I = 0.15 in ⁴	S = 0.30 in ³		8	0.25"	1.5"	2.5

1½" x 1½" x 1½"
Square Grid
1½" Thick
68% Open

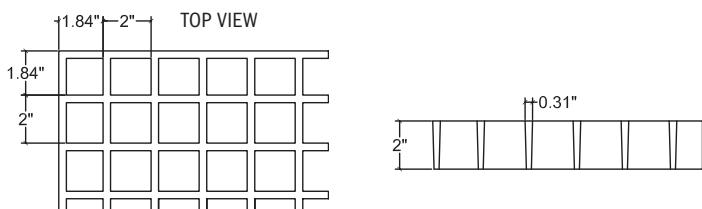


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.002	0.005	0.007	0.009	0.011	0.023	0.045	0.090	2041	0.80
18	0.005	0.011	0.016	0.022	0.027	0.055	0.109		1360	1.11
24	0.012	0.023	0.035	0.046	0.058	0.115	0.230		1021	1.25
30	0.021	0.043	0.064	0.086	0.107	0.214			816	1.31
36	0.036	0.072	0.108	0.144	0.180	0.360			680	1.35
42	0.056	0.113	0.169	0.225	0.282	0.563			583	1.37
48	0.084	0.167	0.251	0.334	0.418				510	1.38
54	0.119	0.238	0.357	0.476	0.594				453	1.38

Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.003	0.004	0.006	0.008	0.014	0.028	0.057	4082	0.80
18	0.005	0.010	0.015	0.021	0.026	0.051	0.103		1813	1.11
24	0.014	0.029	0.043	0.058	0.072	0.144	0.288		1021	1.25
30	0.033	0.067	0.100	0.134	0.167	0.334			653	1.31
36	0.067	0.135	0.202	0.270	0.337				453	1.35
42	0.123	0.246	0.370	0.493	0.616				333	1.37
48	0.209	0.417	0.626						255	1.38
54	0.334	0.669							201	1.38

Properties Per Foot of Width				# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 2.73 in ²	I = 0.49 in ⁴	S = 0.65 in ³		8	0.25"	1.5"	3.94

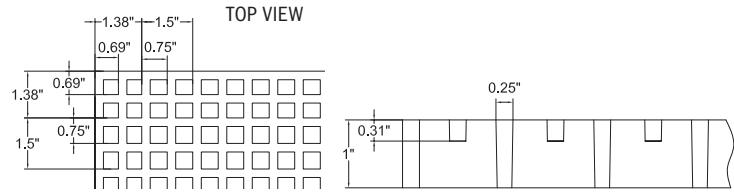
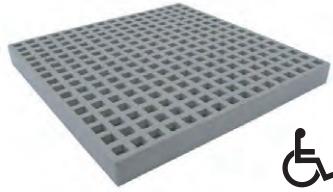
2" x 2" x 2"
Square Grid
2" Thick
71% Open



Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI 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	0.114	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		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 lb/ft ²								Max Load (lb/ft ²)	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	0.003	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

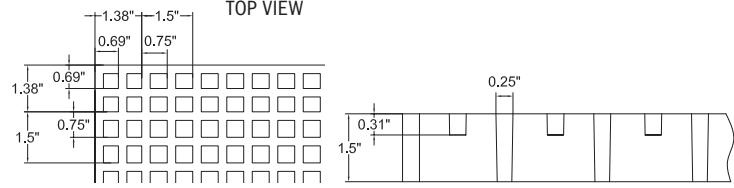
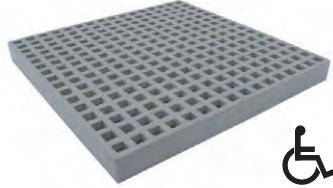
Properties Per Foot of Width				# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 3.12 in ²	I = 1.03 in ⁴	S = 1.03 in ³		6	0.31" (5/16")	2"	4.51

**1" x 3/4" x 3/4"****Square Grid****1" Thick****44% Open**

Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.003	0.006	0.012	0.031	0.045	0.059	0.089	0.120	1239	0.599
18	0.012	0.024	0.049	0.125	0.188	0.254	0.389		826	0.486
24	0.029	0.057	0.116	0.295	0.456	0.580			620	0.494
30	0.059	0.116	0.233	0.605					496	0.478
36	0.088	0.175	0.360						413	0.549
42	0.171	0.346							354	0.448
48	0.262	0.524							310	0.439
54	0.345	0.685							275	0.447

Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.002	0.005	0.007	0.009	0.011	0.023	0.046	0.091	2480	0.599
18	0.011	0.021	0.032	0.043	0.053	0.106	0.213	0.425	1425	0.486
24	0.033	0.066	0.098	0.131	0.164	0.328			825	0.494
30	0.077	0.154	0.230	0.307	0.384				536	0.478
36	0.168	0.336	0.504						310	0.549
42	0.323	0.645							250	0.448
48	0.537									0.439

Properties Per Foot of Width			# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 2.47 in ²	I = 0.16 in ⁴	S = 0.34 in ³	8	0.25"	0.75"	4.06

1½" x ¾" x ¾"**Square Grid****1½" Thick****44% Open**

Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.002	0.003	0.005	0.006	0.008	0.016	0.032	0.063	3090	1.14
18	0.004	0.009	0.013	0.017	0.021	0.043	0.085	0.170	2060	1.43
24	0.009	0.018	0.026	0.035	0.044	0.088	0.176	0.352	1545	1.64
30	0.016	0.032	0.048	0.064	0.080	0.160	0.321	0.642	1236	1.75
36	0.027	0.053	0.080	0.106	0.133	0.266	0.532		1030	1.83
42	0.041	0.083	0.124	0.165	0.207	0.413			883	1.87
48	0.060	0.121	0.181	0.242	0.302	0.605			773	1.90
54	0.085	0.170	0.255	0.339	0.424				687	1.93
60	0.116	0.232	0.347	0.463	0.579				618	1.94

Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI 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	0.039	6180	1.14
18	0.004	0.008	0.012	0.016	0.020	0.040	0.080	0.159	2747	1.43
24	0.011	0.022	0.033	0.044	0.055	0.110	0.220		1545	1.64
30	0.025	0.050	0.075	0.100	0.125	0.251	0.502		989	1.75
36	0.050	0.100	0.149	0.199	0.249	0.498			687	1.83
42	0.090	0.181	0.271	0.362	0.452				505	1.87
48	0.151	0.302	0.454	0.605					386	1.90
54	0.239	0.477							305	1.93
60	0.362								247	1.94

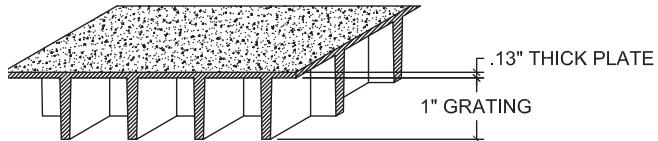
Properties Per Foot of Width			# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 3.29 in ²	I = 0.74 in ⁴	S = 0.90 in ³	8	0.25"	0.75"	4.75

1 1/8" x 1 1/2" x 1 1/2"

Square Grid

1 1/8" Thick

Covered



Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.006	0.011	0.017	0.023	0.029	0.057	0.114		1189	0.31
18	0.018	0.035	0.053	0.071	0.089	0.177			934	0.34
24	0.040	0.080	0.120	0.160	0.199	0.399			668	0.36
30	0.076	0.152	0.228	0.304	0.380				534	0.37
36	0.128	0.256	0.384	0.512	0.640				360	0.38

Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.004	0.007	0.011	0.014	0.018	0.036	0.071	0.143	2378	0.31
18	0.017	0.033	0.050	0.066	0.083	0.166	0.332		1245	0.34
24	0.050	0.100	0.150	0.199	0.249	0.498			668	0.36
30	0.119	0.237	0.356	0.475	0.593				427	0.37
36	0.240	0.480							240	0.38
42	0.431								205	0.39

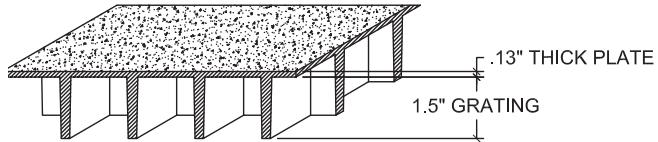
Properties Per Foot of Width			# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 1.79 in ²	I = 0.15 in ⁴	S = 0.30 in ³	8	0.25"	1.5"	2.73

1 5/8" x 1 1/2" x 1 1/2"

Square Grid

1 5/8" Thick

Covered



Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.002	0.005	0.007	0.009	0.011	0.023	0.045	0.090	2041	0.80
18	0.005	0.011	0.016	0.022	0.027	0.055	0.109		1360	1.11
24	0.012	0.023	0.035	0.046	0.058	0.115	0.230		1021	1.25
30	0.021	0.043	0.064	0.086	0.107	0.214			816	1.31
36	0.036	0.072	0.108	0.144	0.180	0.360			680	1.35
42	0.056	0.113	0.169	0.225	0.282	0.563			583	1.37
48	0.084	0.167	0.251	0.334	0.418				510	1.38
54	0.119	0.238	0.357	0.476	0.594				453	1.38

Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.003	0.004	0.006	0.007	0.014	0.028	0.057	4082	0.80
18	0.005	0.010	0.015	0.021	0.026	0.051	0.103		1813	1.11
24	0.014	0.029	0.043	0.058	0.072	0.144	0.288		1021	1.25
30	0.033	0.067	0.100	0.134	0.167	0.334			653	1.31
36	0.067	0.135	0.202	0.270	0.337				453	1.35
42	0.123	0.246	0.370	0.493	0.616				333	1.37
48	0.209	0.417	0.626						255	1.38
54	0.334	0.669							201	1.38

Properties Per Foot of Width			# of Bars	Load Bar Width	Bar Centers	Weight/sq ft
A = 2.73 in ²	I = 0.49 in ⁴	S = 0.65 in ³	8	0.25"	1.5"	5.17