

GRATING PRODUCTS

PROGrid® and PROGrate®



DESIGN — ENGINEER — FABRICATE — INSTALL
STRUCTURAL FIBERGLASS



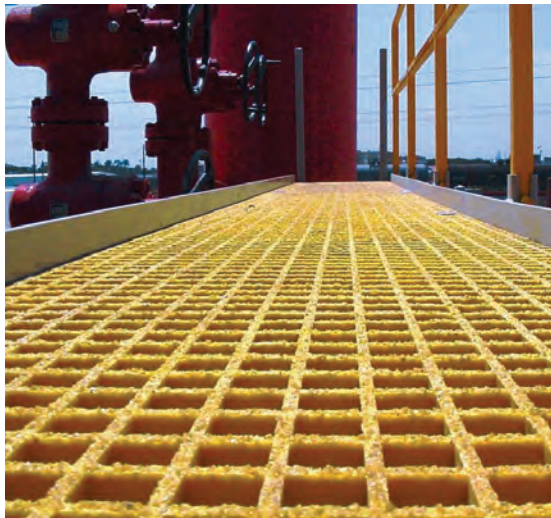


photo courtesy epi

APPLICATIONS

- Floor systems
- Walkways
- Work platforms
- Stairs
- Ramps
- Trench covers
- Catwalks

FEATURES

- Corrosion resistant
- Slip-resistant gritted top surface
- Strong yet lightweight
- Low coefficient of expansion and contraction

BENEFITS

- Reduced maintenance and replacement costs
- Enhanced workplace safety
- Reduced installation costs
- Dimensionally stable in many environments

STRONG, LIGHTWEIGHT AND CORROSION-RESISTANT

Want the strength of steel without the weight? Our fiberglass-reinforced polymer (FRP) grating products have the advantage. Our grating is corrosion-resistant, it's fire-retardant, and it has low conductivity. It's available with anti-slip coating for worker safety. And it's easy to install with standard tools.

Whether you simply need grating panels or a complete FRP system with handrails, stairs and platforms, we have the solution to match. In addition to our products, we offer in-house design, engineering and fabrication capabilities to meet your project needs.



PROGrate® Pultruded Grating

PROGrate® pultruded grating supports heavier loads and longer spans than comparably sized molded grating. It's ideal for demanding applications ranging from ADA-compliant walkways to heavy-duty vehicular traffic.

Strong, Lightweight and Corrosion-Resistant

PROGrate® pultruded grating has the strength of steel, but it won't corrode like steel can.

Safer Walking Surface

A quartz grit anti-slip epoxy coating enhances traction.

Support and Stability

Cross-rods and bearing bars lock mechanically for maximum unidirectional strength.

Easy Fabrication

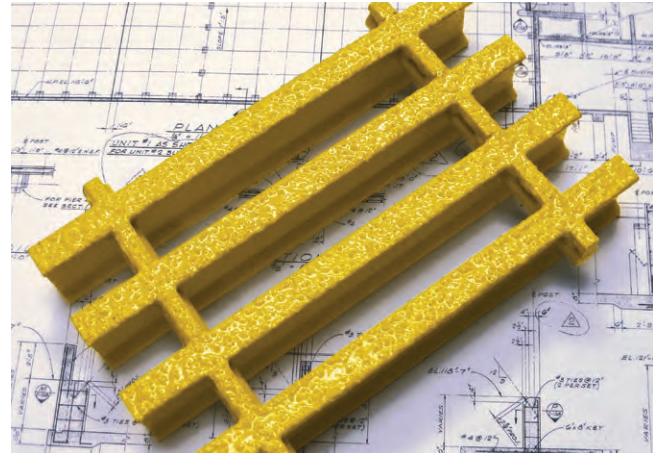
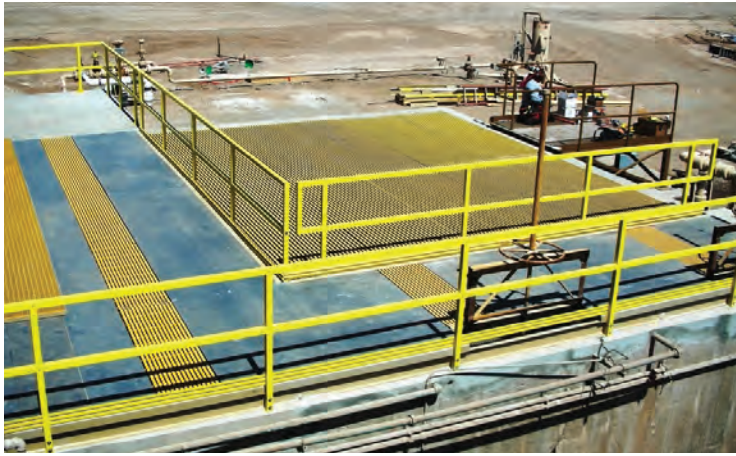
Panels are lightweight, easy to transport, and can be cut and fabricated using standard hand tools.

Extended Life

The coated resin surface increases resistance to chemical corrosion and continuous UV exposure.

Stress Resistance

Continuous glass rovings resist tension, compression and bending while providing longitudinal strength. Continuous glass mat increases transverse strength and resistance to impact.



Available Resin Systems

PROGrate® pultruded grating is available in two resin systems, each providing different levels of corrosion protection. Both resin systems meet Class 1 Flame Spread Rating per ASTM E-84 test standards.

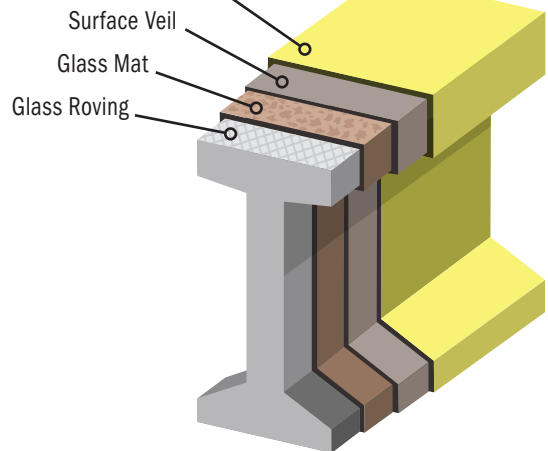
IFR: A premium-grade isophthalic polyester resin system that provides excellent corrosion protection. Standard colors: Yellow and Gray.

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

APPLICATIONS

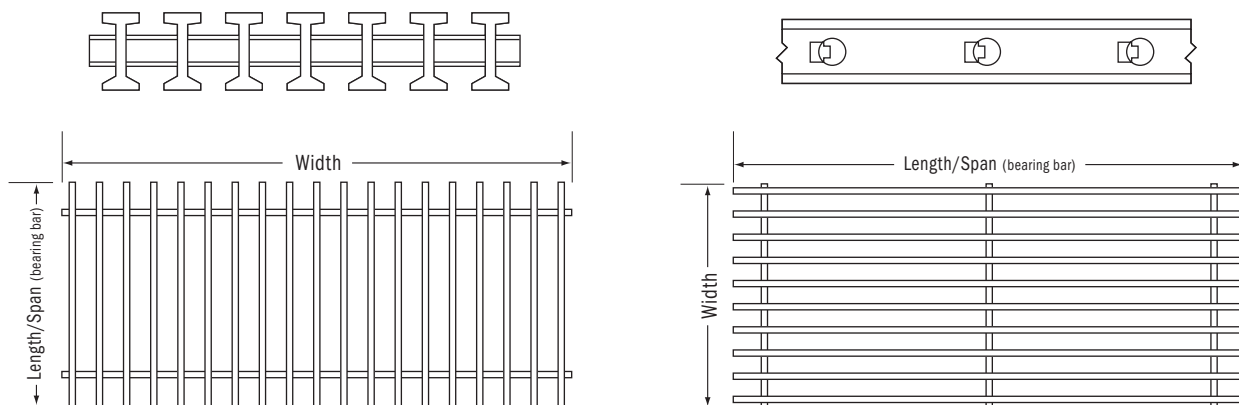
- Floor systems
- Walkways
- Work platforms
- Stairs
- Ramps
- Trench covers
- Catwalks

UV Inhibitor Fire Retardant Polyester or Vinylester Resin



PROGrate® Pultruded Grating

Standard Dimensions



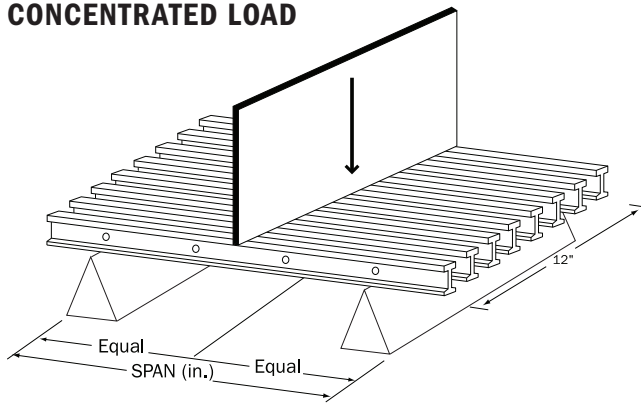
Available Panel Sizes*

3' wide x 20' long	4' wide x 20' long
3' wide x 24' long	4' wide x 24' long

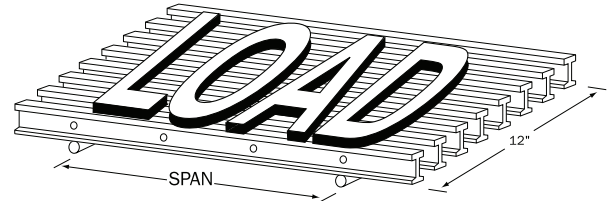
*Note: Not all panel sizes are stocked in every resin series and color. Check website for availability.

PROGrate® Pultruded Grating Load and Deflection Data

CONCENTRATED LOAD

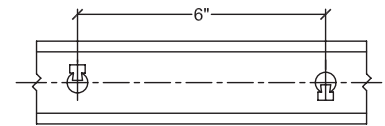
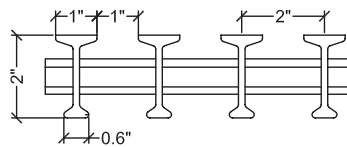


UNIFORM LOAD



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. 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.

T 20-50
T Bearing Bar
 2" Thick
 50% Open

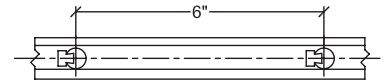
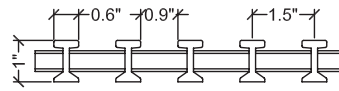
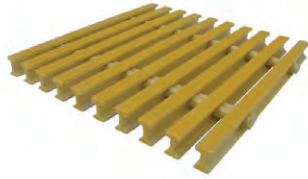


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.002	0.003	0.004	0.005	0.010	0.020	0.040	13302	1.80
18	0.001	0.003	0.004	0.006	0.007	0.015	0.029	0.059	8868	4.15
24	0.002	0.005	0.007	0.009	0.012	0.023	0.047	0.093	6651	6.17
30	0.004	0.008	0.011	0.015	0.019	0.038	0.077	0.153	5321	7.35
36	0.006	0.012	0.018	0.024	0.031	0.061	0.122	0.245	4434	7.95
42	0.009	0.019	0.028	0.037	0.046	0.093	0.186	0.372	3801	8.31
48	0.013	0.027	0.040	0.054	0.067	0.135	0.269	0.539	3326	8.55
54	0.019	0.038	0.057	0.076	0.095	0.190	0.379		2956	8.65
60	0.026	0.051	0.077	0.103	0.129	0.257	0.514		2660	8.75
66	0.034	0.068	0.102	0.136	0.171	0.341	0.682		2419	8.78
72	0.044	0.088	0.133	0.177	0.221	0.442			2217	8.80

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	0.002	0.003	0.006	0.012	0.025	23936	1.80
18	0.001	0.003	0.004	0.005	0.007	0.014	0.027	0.055	8624	4.15
24	0.003	0.006	0.009	0.012	0.015	0.029	0.058	0.117	6468	6.17
30	0.006	0.012	0.180	0.024	0.030	0.060	0.120	0.239	4242	7.35
36	0.011	0.023	0.034	0.046	0.057	0.115	0.229	0.458	2946	7.95
42	0.020	0.041	0.061	0.081	0.102	0.203	0.407		2153	8.31
48	0.034	0.067	0.101	0.135	0.168	0.337	0.674		1672	8.55
54	0.053	0.107	0.160	0.213	0.267	0.533			1310	8.65
60	0.080	0.161	0.241	0.321	0.402				1062	8.75
66	0.117	0.234	0.352	0.469	0.586				881	8.78
72	0.166	0.331	0.497	0.663					740	8.80

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 3.23 in ² I = 1.58 in ⁴ S _T = 1.98 in ³ S _B = 1.32 in ³	6	2"	2"	3.43

I 10-60
I Bearing Bar
1" Thick
60% Open

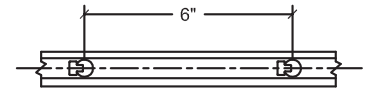
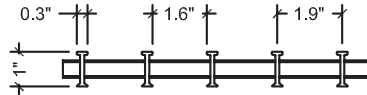
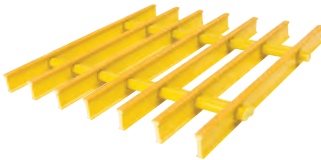


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.002	0.003	0.005	0.007	0.008	0.016	0.033	0.065	5755	1.10
18	0.004	0.009	0.013	0.018	0.022	0.044	0.088	0.176	3850	1.38
24	0.009	0.019	0.028	0.037	0.047	0.094	0.187	0.374	2888	1.54
30	0.017	0.035	0.052	0.069	0.086	0.173	0.345	0.690	2310	1.63
36	0.029	0.059	0.088	0.117	0.146	0.293	0.586		1925	1.66
42	0.046	0.092	0.138	0.184	0.230	0.459			1650	1.68
48	0.068	0.136	0.203	0.271	0.339	0.678			1444	1.70
54	0.095	0.191	0.286	0.381	0.477				1283	1.72
60	0.129	0.259	0.388	0.517	0.647				1155	1.74
66	0.171	0.342	0.513	0.685					1050	1.75
72	0.221	0.442	0.663						962	1.76

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	0.041	7944	1.10
18	0.004	0.008	0.012	0.017	0.021	0.041	0.083	0.165	5296	1.38
24	0.012	0.023	0.035	0.047	0.058	0.117	0.234	0.468	2935	1.54
30	0.027	0.054	0.081	0.108	0.135	0.270	0.539		1845	1.63
36	0.055	0.110	0.165	0.220	0.274	0.549			1281	1.66
42	0.100	0.201	0.301	0.402	0.502				943	1.68
48	0.169	0.339	0.508	0.678					721	1.70
54	0.268	0.536							571	1.72
60	0.404								514	1.74

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 2.44 in ² I = 0.31 in ⁴ S = 0.62 in ³	8	1"	1.5"	2.47

I 10-83
I Bearing Bar
1" Thick
83% Open

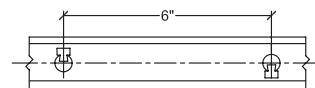
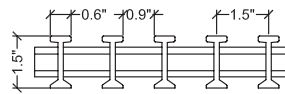
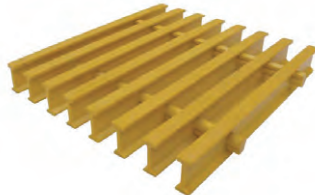


Span (inches)	CONCENTRATED LOAD in lb/ft of width						Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	200	500	750	1000		
12	0.0065	0.013	0.026	0.065	0.098	0.130	1812	2.31
18	0.013	0.026	0.052	0.130	0.195	0.260	1208	3.89
24	0.029	0.058	0.116	0.290	0.435		906	4.14
30	0.056	0.112	0.224	0.560			725	4.19
36	0.099	0.198	0.396				604	4.09
42	0.155	0.310	0.620				518	4.15
48	0.225	0.450	0.900				453	4.27
54	0.317	0.634					403	4.31
60	0.408	0.816					362	4.60

Span (inches)	UNIFORM LOAD in lb/ft ²						Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	200	500	750	1000		
12	0.003	0.006	0.010	0.013	0.016	0.032	3841	2.31
18	0.011	0.022	0.033	0.044	0.055	0.110	2560	3.89
24	0.031	0.061	0.092	0.123	0.153	0.307	1920	4.14
30	0.056	0.111	0.167	0.222	0.278	0.555	1536	4.19
36	0.163	0.326	0.488	0.651	0.814		1280	4.09
42	0.303	0.606	0.909				1097	4.15
48	0.519						960	4.27
54	0.867						853	4.31
60	1.509						768	4.60

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 1.19 in ² I = 0.12 in ⁴ S = 0.24 in ³	6	1	1.9"	2

I 15-60
I Bearing Bar
1½" Thick
60% 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	0.009	0.018	0.036	8958	1.99
18	0.002	0.004	0.006	0.008	0.009	0.019	0.038	0.075	5972	3.23
24	0.004	0.007	0.011	0.015	0.018	0.037	0.074	0.147	4479	3.91
30	0.007	0.013	0.020	0.027	0.033	0.066	0.133	0.265	3853	4.24
36	0.011	0.022	0.033	0.044	0.055	0.110	0.220	0.441	2986	4.41
42	0.017	0.035	0.052	0.069	0.086	0.173	0.345	0.691	2559	4.47
48	0.026	0.051	0.077	0.102	0.128	0.255	0.511		2240	4.51
54	0.036	0.073	0.109	0.145	0.181	0.363			1991	4.52
60	0.050	0.099	0.149	0.198	0.248	0.496			1792	4.54
66	0.066	0.132	0.197	0.263	0.329	0.658			1629	4.55
72	0.085	0.171	0.256	0.341	0.427				1493	4.56

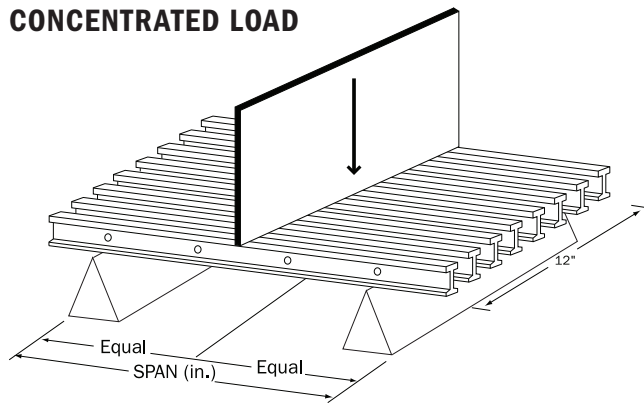
Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.001	0.002	0.002	0.003	0.006	0.011	0.023	10524	1.99
18	0.002	0.004	0.005	0.007	0.009	0.018	0.035	0.070	7016	3.23
24	0.005	0.009	0.014	0.018	0.023	0.046	0.092	0.184	4585	3.91
30	0.010	0.021	0.031	0.041	0.052	0.104	0.207	0.415	2831	4.24
36	0.021	0.041	0.062	0.083	0.103	0.207	0.413		2006	4.41
42	0.038	0.076	0.113	0.151	0.189	0.378			1454	4.47
48	0.064	0.128	0.192	0.255	0.319	0.639			1117	4.51
54	0.102	0.204	0.306	0.408	0.510				885	4.52
60	0.155	0.310	0.465	0.620					717	4.54
66	0.226	0.453	0.679						592	4.55
72	0.320	0.640							498	4.56

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 3.11 in ² I = 0.88 in ⁴ S = 1.17 in ³	8	1.5"	1.5"	2.97

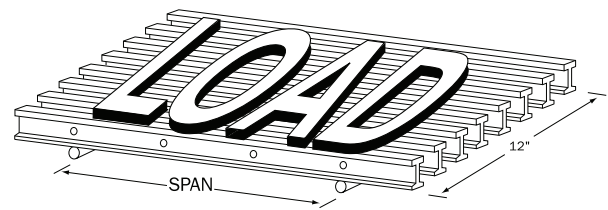
THE FOLLOWING PROGRATE® PRODUCTS ARE ONLY AVAILABLE BY SPECIAL ORDER.

Minimum orders, extended lead times and special-order pricing will apply.

CONCENTRATED LOAD

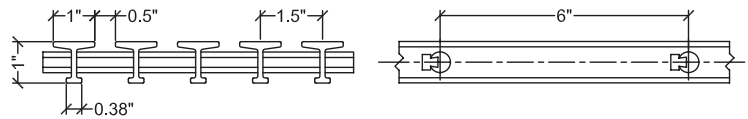


UNIFORM LOAD



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2. The designer should not exceed MAXIMUM RECOMMENDED load at any time. 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 lb/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.

T 10-33
T Bearing Bar
 1" Thick
 33% Open

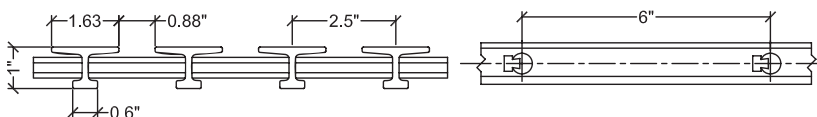


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.003	0.005	0.008	0.010	0.013	0.026	0.051	0.103	1950	0.70
18	0.007	0.014	0.020	0.027	0.034	0.068	0.135	0.270	1300	0.90
24	0.015	0.029	0.044	0.058	0.073	0.145	0.291	0.582	975	0.99
30	0.028	0.055	0.083	0.110	0.138	0.276	0.551		780	1.02
36	0.047	0.093	0.140	0.187	0.234	0.467			650	1.04
42	0.074	0.147	0.221	0.294	0.368				557	1.05
48	0.109	0.217	0.326	0.435	0.543				488	1.06

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	0.003	0.005	0.006	0.008	0.016	0.032	0.064	7599	0.70
18	0.006	0.013	0.019	0.025	0.032	0.063	0.127	0.253	3314	0.90
24	0.018	0.036	0.055	0.073	0.091	0.182	0.364		1957	0.99
30	0.043	0.086	0.129	0.172	0.215	0.431			1258	1.02
36	0.088	0.175	0.263	0.350	0.438				883	1.04
42	0.161	0.322	0.482	0.643					655	1.05
48	0.272	0.543							502	1.06

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 2.34 in ² I = 0.27 in ⁴ S _x = 0.78 in ³ S _y = 0.42 in ³	8	1"	1.5"	2.25

T 10-35
T Bearing Bar
 1" Thick
 35% Open

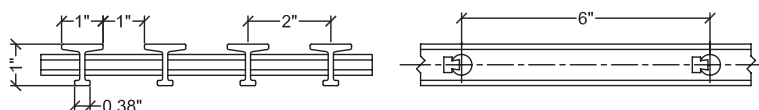


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.002	0.005	0.007	0.010	0.012	0.024	0.049	0.097	3759	0.74
18	0.006	0.013	0.019	0.026	0.032	0.064	0.128	0.256	2506	0.95
24	0.013	0.027	0.040	0.053	0.067	0.133	0.267	0.533	1880	1.08
30	0.025	0.049	0.074	0.099	0.123	0.247	0.493		1504	1.14
36	0.042	0.084	0.126	0.168	0.209	0.419			1253	1.16
42	0.065	0.131	0.196	0.262	0.327	0.654			1074	1.18
48	0.096	0.192	0.288	0.384	0.480				940	1.20

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	0.003	0.004	0.006	0.007	0.015	0.030	0.060	7620	0.74
18	0.006	0.012	0.017	0.023	0.029	0.059	0.119	0.239	3339	0.95
24	0.017	0.033	0.049	0.066	0.083	0.166	0.333	0.666	1898	1.08
30	0.039	0.077	0.115	0.154	0.019	0.385			1204	1.14
36	0.079	0.157	0.235	0.314	0.392				835	1.16
42	0.143	0.286	0.429	0.572					614	1.18
48	0.240	0.480							470	1.20

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 2.38 in ² I = 0.31 in ⁴ S _T = 0.84 in ³ S _B = 0.49 in ³	5	1"	2.5"	2.00

T 10-50
T Bearing Bar
 1" Thick
 50% Open

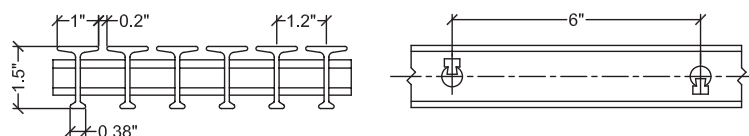
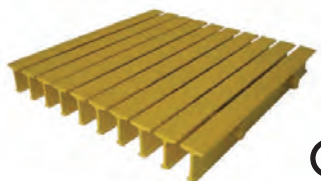


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.003	0.007	0.010	0.014	0.017	0.034	0.068	0.136	1476	0.53
18	0.009	0.018	0.028	0.037	0.046	0.092	0.184	0.368	984	0.66
24	0.019	0.039	0.058	0.078	0.097	0.195	0.389		738	0.74
30	0.036	0.072	0.108	0.144	0.180	0.361			590	0.78
36	0.062	0.123	0.185	0.246	0.308	0.615			492	0.79
42	0.096	0.193	0.289	0.386	0.482				422	0.80
48	0.142	0.284	0.427	0.569					369	0.81

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	0.004	0.006	0.008	0.011	0.021	0.042	0.085	5735	0.53
18	0.009	0.017	0.026	0.035	0.043	0.086	0.173	0.345	2952	0.66
24	0.024	0.048	0.073	0.097	0.122	0.243	0.486		1473	0.74
30	0.056	0.113	0.169	0.225	0.282	0.563			939	0.78
36	0.115	0.231	0.346	0.461	0.577				661	0.79
42	0.211	0.422	0.633						492	0.80
48	0.356								376	0.81

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 1.76 in ² I = 0.21 in ⁴ S _T = 0.59 in ³ S _B = 0.31 in ³	6	1"	2"	1.81

T 15-17
T Bearing Bar
 1½" Thick
 17% Open

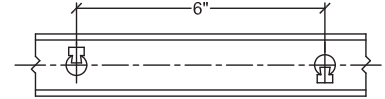
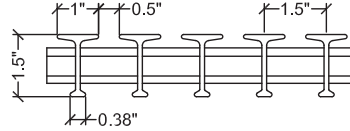
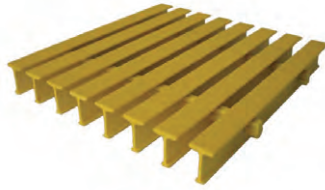


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.002	0.003	0.004	0.005	0.010	0.019	0.038	10343	1.89
18	0.002	0.004	0.007	0.009	0.011	0.022	0.045	0.089	6895	2.72
24	0.005	0.009	0.014	0.018	0.023	0.045	0.090	0.180	5172	3.2
30	0.008	0.016	0.024	0.032	0.040	0.080	0.160	0.320	4137	3.52
36	0.0135	0.027	0.0405	0.054	0.0675	0.135	0.27	0.54	3448	3.6
42	0.021	0.043	0.064	0.085	0.107	0.213	0.426		2955	3.62
48	0.032	0.063	0.095	0.127	0.158	0.316	0.633		2586	3.64
54	0.045	0.090	0.134	0.179	0.224	0.448			2298	3.66
60	0.061	0.122	0.183	0.245	0.306	0.611			2069	3.68
66	0.081	0.162	0.243	0.324	0.405				1881	3.7

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	0.002	0.003	0.006	0.012	0.024	13240	1.89
18	0.002	0.004	0.006	0.008	0.010	0.020	0.042	0.084	5884	2.72
24	0.006	0.011	0.017	0.022	0.028	0.056	0.112	0.225	3310	3.2
30	0.012	0.025	0.037	0.050	0.062	0.125	0.250	0.500	2118	3.52
36	0.025	0.051	0.076	0.101	0.127	0.253	0.506		1471	3.6
42	0.047	0.093	0.140	0.187	0.233	0.466			1081	3.62
48	0.079	0.158	0.237	0.316	0.396				827	3.64
54	0.126	0.252	0.378	0.504	0.630				654	3.66
60	0.191	0.382	0.573						530	3.68
66	0.278	0.556							438	3.7

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 3.08 in ² I = 0.88 in ⁴ S _T = 1.38 in ³ S _B = 1.02 in ³	10	1.5"	1.2"	3.39

T 15-33
T Bearing Bar
 1½" Thick
 33% Open

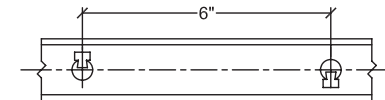
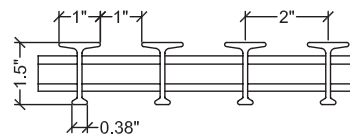
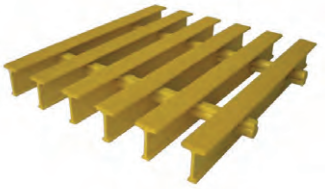


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.002	0.003	0.004	0.005	0.011	0.021	0.042	8235	1.71
18	0.003	0.005	0.008	0.011	0.013	0.026	0.053	0.106	5490	2.3
24	0.005	0.011	0.016	0.022	0.027	0.054	0.109	0.217	4118	2.65
30	0.010	0.020	0.031	0.041	0.051	0.102	0.205	0.409	3294	2.75
36	0.017	0.035	0.052	0.070	0.087	0.174	0.348	0.697	2745	2.79
42	0.027	0.055	0.082	0.109	0.136	0.273	0.545		2353	2.83
48	0.040	0.081	0.121	0.161	0.201	0.403			2059	2.86
54	0.057	0.114	0.170	0.227	0.284	0.568			1830	2.89
60	0.077	0.155	0.232	0.309	0.387				1647	2.91
66	0.102	0.204	0.307	0.409	0.511				1497	2.93

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	0.007	0.013	0.026	10541	1.71
18	0.002	0.005	0.007	0.010	0.012	0.025	0.050	0.099	4685	2.3
24	0.007	0.014	0.020	0.027	0.034	0.068	0.136	0.272	2635	2.65
30	0.016	0.032	0.048	0.064	0.080	0.160	0.320	0.639	1687	2.75
36	0.033	0.065	0.098	0.131	0.163	0.327	0.653		1171	2.79
42	0.060	0.119	0.179	0.239	0.298	0.597			861	2.83
48	0.101	0.201	0.302	0.403	0.503				659	2.86
54	0.160	0.319	0.479	0.638					521	2.89
60	0.242	0.483							422	2.91
66	0.351								348	2.93

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 2.47 in ² I = 0.70 in ⁴ S _x = 1.10 in ³ S _y = 0.82 in ³	8	1.5"	1.5"	2.81

T 15-50
T Bearing Bar
 1½" Thick
 50% Open

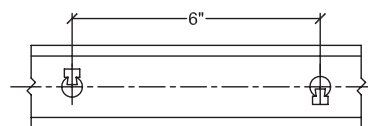
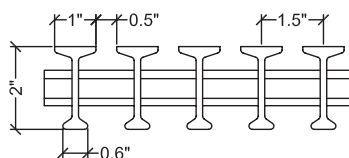
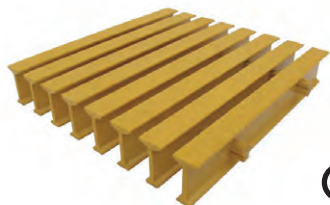


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.003	0.004	0.005	0.006	0.013	0.026	0.051	5210	1.41
18	0.003	0.007	0.010	0.013	0.017	0.033	0.066	0.132	3473	1.84
24	0.007	0.014	0.021	0.029	0.036	0.072	0.143	0.286	2605	2.01
30	0.013	0.027	0.040	0.054	0.067	0.134	0.268	0.536	2084	2.1
36	0.023	0.045	0.068	0.090	0.113	0.225	0.450		1737	2.16
42	0.035	0.070	0.104	0.139	0.174	0.348	0.695		1489	2.22
48	0.051	0.102	0.153	0.204	0.255	0.510			1303	2.26
54	0.072	0.144	0.216	0.288	0.360				1158	2.28
60	0.098	0.196	0.293	0.391	0.489				1042	2.3
66	0.129	0.258	0.387	0.516	0.645				947	2.32

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	0.002	0.003	0.004	0.008	0.016	0.032	6669	1.41
18	0.003	0.006	0.009	0.012	0.015	0.031	0.062	0.124	3464	1.84
24	0.009	0.018	0.027	0.036	0.045	0.089	0.179	0.357	1667	2.01
30	0.021	0.042	0.063	0.084	0.105	0.209	0.419		1067	2.1
36	0.042	0.084	0.127	0.169	0.211	0.422			741	2.16
42	0.076	0.152	0.228	0.304	0.380				545	2.22
48	0.127	0.255	0.382	0.510	0.637				417	2.26
54	0.202	0.405	0.607						329	2.28
60	0.306	0.611							267	2.3
66	0.444								220	2.32

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 1.85 in ² I = 0.53 in ⁴ S _x = 0.83 in ³ S _y = 0.61 in ³	6	1.5"	2"	2.23

T 20-33
T Bearing Bar
 2" Thick
 33% Open

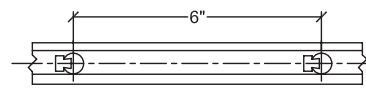
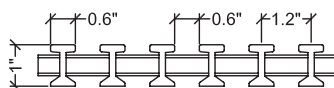
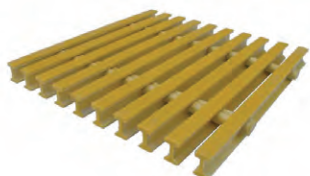


Span (inches)	CONCENTRATED LOAD in lb/ft of width									Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000	2000		
12	0.001	0.001	0.002	0.002	0.003	0.005	0.010	0.020	0.020	16215	3.60
18	0.001	0.002	0.003	0.004	0.005	0.010	0.020	0.040	0.040	10810	6.07
24	0.002	0.004	0.005	0.007	0.009	0.018	0.037	0.073	0.073	8108	7.89
30	0.003	0.006	0.009	0.012	0.015	0.030	0.060	0.121	0.121	6486	9.32
36	0.005	0.010	0.014	0.019	0.024	0.048	0.096	0.192	0.192	5405	10.10
42	0.007	0.015	0.022	0.029	0.036	0.073	0.146	0.291	0.291	4633	10.60
48	0.010	0.021	0.031	0.042	0.052	0.104	0.208	0.417	0.417	4054	11.06
54	0.015	0.029	0.044	0.058	0.073	0.146	0.291	0.583	0.583	3603	11.26
60	0.020	0.040	0.059	0.079	0.099	0.198	0.396			3243	11.36
66	0.026	0.052	0.078	0.105	0.131	0.261	0.523			2948	11.46
72	0.034	0.068	0.101	0.135	0.169	0.338	0.676			2703	11.50

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	2000		
12	<0.001	0.001	0.001	0.001	0.002	0.003	0.006	0.012	0.012	20269	3.60
18	0.001	0.002	0.003	0.004	0.005	0.009	0.019	0.038	0.038	13524	6.07
24	0.002	0.005	0.007	0.009	0.011	0.023	0.046	0.091	0.091	7398	7.89
30	0.005	0.009	0.014	0.019	0.024	0.047	0.094	0.189	0.189	5437	9.32
36	0.009	0.018	0.027	0.036	0.045	0.090	0.180	0.361	0.361	3612	10.10
42	0.016	0.032	0.048	0.064	0.080	0.159	0.319	0.637	0.637	2635	10.60
48	0.026	0.052	0.078	0.104	0.130	0.260	0.521			2030	11.06
54	0.041	0.082	0.123	0.164	0.205	0.410				1600	11.26
60	0.062	0.124	0.186	0.248	0.309	0.619				1295	11.36
66	0.090	0.180	0.269	0.359	0.449					1070	11.46
72	0.127	0.254	0.380	0.507	0.634					899	11.50

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 4.34 in ² I = 2.11 in ⁴ S _x = 2.64 in ³ S _y = 1.76 in ³	8	2"	1.5"	4.44

I 10-50
I Bearing Bar
 1" Thick
 50% Open

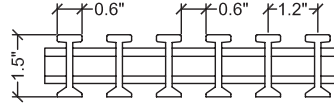
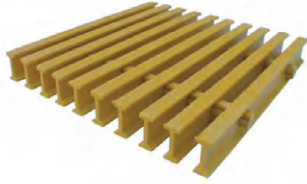


Span (inches)	CONCENTRATED LOAD in lb/ft of width									Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000	2000		
12	0.001	0.003	0.004	0.005	0.007	0.013	0.026	0.053	0.053	7185	1.36
18	0.004	0.007	0.011	0.015	0.018	0.037	0.074	0.147	0.147	4790	1.65
24	0.008	0.015	0.023	0.031	0.038	0.077	0.153	0.306	0.306	3593	1.88
30	0.014	0.028	0.042	0.057	0.071	0.141	0.283	0.565	0.565	2874	1.99
36	0.024	0.048	0.073	0.097	0.121	0.242	0.484			2395	2.01
42	0.038	0.076	0.114	0.152	0.190	0.380				2053	2.03
48	0.056	0.112	0.169	0.225	0.281	0.562				1796	2.05
54	0.080	0.159	0.239	0.318	0.398					1597	2.06
60	0.109	0.217	0.326	0.435	0.543					1437	2.07
66	0.144	0.288	0.432	0.576						1307	2.08
72	0.186	0.372	0.558							1198	2.09

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	2000		
12	0.001	0.002	0.002	0.003	0.004	0.008	0.017	0.033	0.033	11887	1.36
18	0.003	0.007	0.010	0.014	0.017	0.035	0.069	0.138	0.138	6299	1.65
24	0.010	0.019	0.029	0.038	0.048	0.096	0.191	0.383	0.383	3621	1.88
30	0.022	0.044	0.066	0.088	0.110	0.221	0.442			2308	1.99
36	0.045	0.091	0.136	0.181	0.227	0.453				1591	2.01
42	0.083	0.166	0.249	0.333	0.416					1175	2.03
48	0.140	0.281	0.421	0.562						898	2.05
54	0.224	0.448	0.672							709	2.06
60	0.340	0.679								638	2.07

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 3.05 in ² I = 0.39 in ⁴ S = 0.77 in ³	10	1"	1.2"	2.97

I 15-50
I Bearing Bar
 1½" Thick
 50% Open

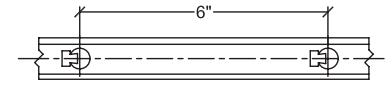
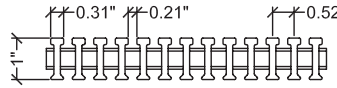


Span (inches)	CONCENTRATED LOAD in lb/ft of width									Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000	2000		
12	0.001	0.001	0.002	0.003	0.004	0.007	0.015	0.029	0.061	11055	2.46
18	0.002	0.003	0.005	0.006	0.008	0.015	0.030	0.061	0.119	7370	4.00
24	0.003	0.006	0.009	0.012	0.015	0.030	0.060	0.119	0.214	5528	4.84
30	0.005	0.011	0.016	0.021	0.027	0.054	0.107	0.214	0.356	4422	5.25
36	0.009	0.018	0.027	0.036	0.045	0.089	0.178	0.356	0.558	3685	5.46
42	0.014	0.028	0.042	0.056	0.070	0.139	0.279	0.558		3159	5.53
48	0.021	0.041	0.062	0.083	0.103	0.206	0.413			2764	5.58
54	0.029	0.059	0.088	0.117	0.146	0.293	0.586			2457	5.60
60	0.040	0.080	0.120	0.160	0.200	0.401				2211	5.61
66	0.053	0.106	0.160	0.213	0.266	0.532				2010	5.63
72	0.069	0.138	0.207	0.276	0.345	0.689				1843	5.64

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	2000		
12	<0.001	0.001	0.001	0.002	0.002	0.005	0.009	0.018	0.037	13992	2.46
18	0.001	0.003	0.004	0.006	0.007	0.014	0.028	0.057	0.114	9328	4.00
24	0.004	0.007	0.011	0.015	0.019	0.037	0.074	0.149	0.298	5878	4.84
30	0.008	0.017	0.025	0.034	0.042	0.084	0.168	0.335	0.670	3486	5.25
36	0.017	0.033	0.050	0.067	0.083	0.167	0.334	0.668		2485	5.46
42	0.031	0.061	0.092	0.122	0.153	0.305	0.610			1806	5.53
48	0.052	0.103	0.155	0.206	0.258	0.516				1384	5.58
54	0.082	0.165	0.247	0.330	0.412					1091	5.60
60	0.125	0.250	0.376	0.501	0.626					886	5.61
66	0.183	0.366	0.548							730	5.63
72	0.259	0.517								614	5.64

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 3.89 in ² I = 1.11 in ⁴ S = 1.47 in ³	10	1.5"	1.2"	3.60

I 10-40-ADA
I Bearing Bar
 1" Thick
 40% Open

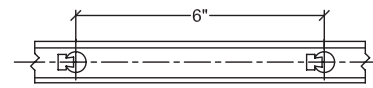
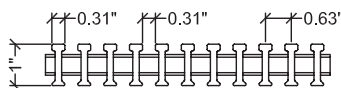
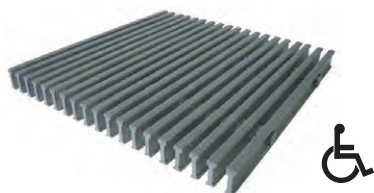


Span (inches)	CONCENTRATED LOAD in lb/ft of width									Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000	2000		
12	0.001	0.002	0.003	0.004	0.005	0.009	0.018	0.036	0.072	9005	1.99
18	0.003	0.006	0.009	0.011	0.014	0.029	0.057	0.115	0.230	6003	2.12
24	0.006	0.013	0.019	0.026	0.032	0.064	0.129	0.257	0.514	4503	2.24
30	0.012	0.024	0.036	0.048	0.060	0.120	0.239	0.479	0.958	3602	2.35
36	0.020	0.040	0.060	0.080	0.100	0.201	0.402			3002	2.42
42	0.032	0.063	0.095	0.126	0.158	0.315				2573	2.45
48	0.047	0.093	0.140	0.187	0.233	0.466				2251	2.47
54	0.066	0.132	0.198	0.265	0.331	0.661				2001	2.48
60	0.090	0.181	0.271	0.361	0.452					1800	2.49
66	0.120	0.240	0.359	0.479	0.599					1637	2.50
72	0.155	0.310	0.465	0.620						1500	2.51

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	2000		
12	0.001	0.001	0.002	0.002	0.003	0.006	0.011	0.023	0.046	11526	1.99
18	0.003	0.005	0.008	0.011	0.013	0.027	0.054	0.107	0.214	5123	2.12
24	0.008	0.016	0.024	0.032	0.040	0.080	0.161	0.321	0.642	2882	2.24
30	0.019	0.037	0.056	0.075	0.094	0.187	0.374			1844	2.35
36	0.038	0.075	0.113	0.151	0.188	0.377				1281	2.42
42	0.069	0.138	0.207	0.276	0.345					941	2.45
48	0.117	0.233	0.350	0.466						720	2.47
54	0.186	0.372	0.558							569	2.48
60	0.282	0.565								461	2.49
66	0.412									381	2.5
72	0.581									320	2.51

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 4.44 in ² I = 0.49 in ⁴ S = 0.98 in ³	23	1"	.52"	4.08

I 10-50-ADA
I Bearing Bar
 1" Thick
 50% Open

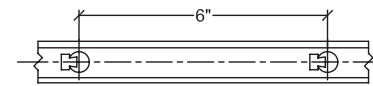
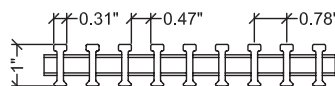
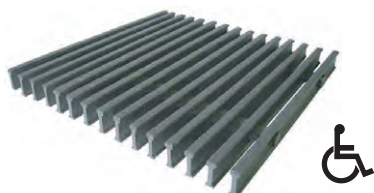


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.003	0.004	0.006	0.007	0.014	0.028	0.056	7495	1.29
18	0.003	0.007	0.010	0.014	0.017	0.035	0.069	0.139	4997	1.75
24	0.007	0.015	0.022	0.030	0.037	0.074	0.148	0.295	3748	1.95
30	0.014	0.028	0.042	0.055	0.069	0.139	0.277		2998	2.03
36	0.024	0.048	0.071	0.095	0.119	0.238	0.476		2498	2.04
42	0.037	0.075	0.112	0.150	0.187	0.375			2141	2.06
48	0.056	0.111	0.167	0.223	0.278				1874	2.07
54	0.079	0.158	0.237	0.315	0.394				1666	2.08
60	0.108	0.215	0.323	0.431	0.538				1499	2.09
66	0.143	0.285	0.428	0.570					1363	2.10
72	0.184	0.369	0.553						1250	2.11

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	0.003	0.004	0.009	0.017	0.035	9594	1.29
18	0.003	0.007	0.010	0.013	0.016	0.033	0.065	0.130	4264	1.75
24	0.009	0.018	0.028	0.037	0.046	0.092	0.185	0.369	2398	1.95
30	0.022	0.043	0.065	0.087	0.108	0.216	0.433		1535	2.03
36	0.045	0.089	0.134	0.179	0.223	0.447			1066	2.04
42	0.082	0.164	0.246	0.328	0.410				783	2.06
48	0.139	0.278	0.417						600	2.07
54	0.222	0.444	0.665						474	2.08
60	0.336	0.673							383	2.09
66	0.490								317	2.1
72	0.691								267	2.11

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 3.67 in ² I = 0.40 in ⁴ S = 0.80 in ³	19	1"	0.63"	3.50

I 10-60-ADA
I Bearing Bar
 1" Thick
 60% 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	0.015	0.030	0.060	6181	1.20
18	0.004	0.008	0.012	0.016	0.021	0.041	0.082	0.164	4121	1.48
24	0.009	0.017	0.026	0.035	0.044	0.087	0.175	0.349	3091	1.65
30	0.016	0.033	0.049	0.065	0.082	0.164	0.327		2472	1.72
36	0.028	0.055	0.083	0.110	0.138	0.276			2060	1.76
42	0.043	0.086	0.129	0.172	0.214	0.429			1766	1.80
48	0.063	0.127	0.190	0.253	0.316				1545	1.82
54	0.089	0.178	0.267	0.357	0.446				1374	1.84
60	0.121	0.242	0.363	0.484	0.605				1237	1.86
66	0.160	0.320	0.480	0.641					1124	1.87
72	0.207	0.414	0.620						1030	1.88

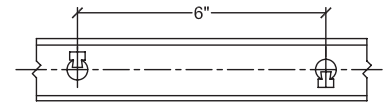
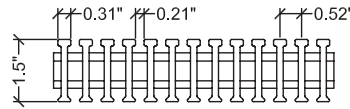
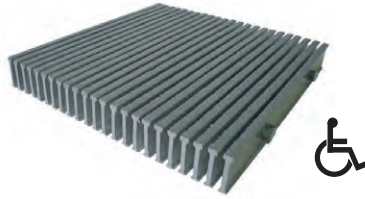
Span (inches)	UNIFORM LOAD in lb/ft ²								Max Load (lb/ft ²)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.002	0.003	0.004	0.005	0.009	0.019	0.038	7912	1.20
18	0.004	0.008	0.012	0.015	0.019	0.038	0.077	0.154	3516	1.48
24	0.011	0.022	0.033	0.044	0.055	0.109	0.218	0.436	1978	1.65
30	0.026	0.051	0.077	0.102	0.128	0.255			1266	1.72
36	0.052	0.104	0.155	0.207	0.259				879	1.76
42	0.094	0.188	0.281	0.375					646	1.80
48	0.158	0.316	0.475	0.633					494	1.82
54	0.251	0.501							391	1.84
60	0.378								316	1.86
66	0.551								261	1.87
72	0.776								220	1.88

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 2.90 in ² I = 0.32 in ⁴ S = 0.64 in ³	15	1"	0.78"	2.92





**I 15-40-ADA
I Bearing Bar
1½" Thick
40% Open**

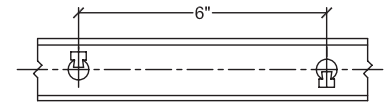
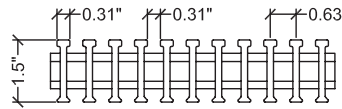
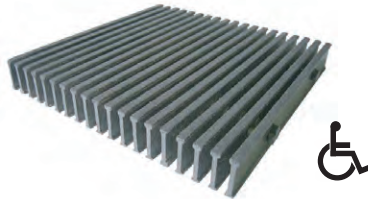


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.001	0.002	0.002	0.003	0.005	0.011	0.021	15057	3.40
18	0.001	0.002	0.003	0.004	0.006	0.011	0.022	0.045	10038	5.42
24	0.002	0.005	0.007	0.009	0.012	0.023	0.047	0.094	7528	6.16
30	0.004	0.008	0.013	0.017	0.021	0.042	0.085	0.170	6023	6.63
36	0.007	0.014	0.022	0.029	0.036	0.072	0.143	0.287	5019	6.78
42	0.011	0.022	0.034	0.045	0.056	0.112	0.224	0.447	4302	6.90
48	0.016	0.033	0.049	0.065	0.082	0.163	0.327		3764	7.05
54	0.023	0.046	0.069	0.092	0.115	0.229	0.459		3346	7.15
60	0.031	0.063	0.094	0.125	0.157	0.313			3011	7.18
66	0.042	0.083	0.125	0.166	0.208	0.416			2738	7.20
72	0.054	0.108	0.162	0.215	0.269	0.539			2509	7.22

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	0.000	0.001	0.001	0.001	0.002	0.003	0.007	0.013	19273	3.40
18	0.001	0.002	0.003	0.004	0.005	0.011	0.021	0.042	8566	5.42
24	0.003	0.006	0.009	0.012	0.015	0.029	0.058	0.117	4818	6.16
30	0.007	0.013	0.020	0.027	0.033	0.066	0.133	0.265	3084	6.63
36	0.013	0.027	0.040	0.054	0.067	0.134	0.269		2141	6.78
42	0.024	0.049	0.073	0.098	0.122	0.245			1573	6.9
48	0.041	0.082	0.123	0.163	0.204				1205	7.05
54	0.065	0.129	0.194	0.258	0.323				952	7.15
60	0.098	0.196	0.294	0.392	0.490				771	7.18
66	0.143	0.286	0.429						637	7.2
72	0.202	0.404							535	7.22

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 6.24 in ² I = 1.38 in ⁴ S = 1.84 in ³	23	1.5"	0.52"	5.32

**I 15-50-ADA
I Bearing Bar
1½" Thick
50% Open**

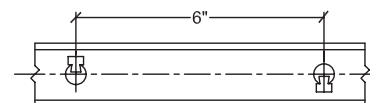
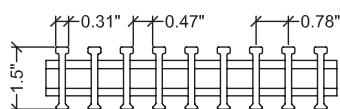
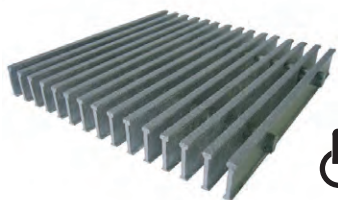


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.001	0.002	0.002	0.003	0.006	0.011	0.022	12052	3.26
18	0.001	0.003	0.004	0.006	0.007	0.014	0.028	0.056	8035	4.32
24	0.003	0.006	0.009	0.012	0.015	0.029	0.058	0.116	6026	4.96
30	0.005	0.010	0.016	0.021	0.026	0.052	0.104	0.208	4821	5.42
36	0.009	0.017	0.026	0.035	0.043	0.086	0.173	0.346	4017	5.62
42	0.013	0.027	0.040	0.054	0.067	0.134	0.269		3444	5.74
48	0.020	0.040	0.060	0.079	0.099	0.199	0.397		3013	5.80
54	0.028	0.056	0.085	0.113	0.141	0.282			2678	5.82
60	0.039	0.077	0.116	0.154	0.193	0.385			2410	5.84
66	0.051	0.102	0.153	0.204	0.256	0.511			2191	5.86
72	0.066	0.132	0.198	0.264	0.331				2009	5.88

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	0.000	0.001	0.001	0.001	0.002	0.003	0.007	0.014	15427	3.26
18	0.001	0.003	0.004	0.005	0.007	0.013	0.026	0.053	6856	4.32
24	0.004	0.007	0.011	0.015	0.018	0.036	0.073	0.145	3857	4.96
30	0.008	0.016	0.024	0.032	0.041	0.081	0.162	0.324	2468	5.42
36	0.016	0.032	0.049	0.065	0.081	0.162	0.324		1714	5.62
42	0.029	0.059	0.088	0.118	0.147	0.294			1259	5.74
48	0.050	0.099	0.149	0.199	0.248				964	5.8
54	0.079	0.159	0.238	0.317	0.396				762	5.82
60	0.120	0.241	0.361	0.482					617	5.84
66	0.176	0.351							510	5.86
72	0.248	0.496							429	5.88

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 5.15 in ² I = 1.14 in ⁴ S = 1.52 in ³	19	1.5"	0.63"	4.64

**I 15-60-ADA
I Bearing Bar
1½" Thick
60% Open**

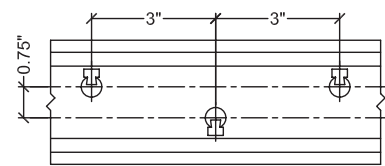
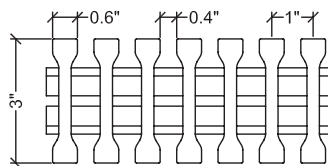
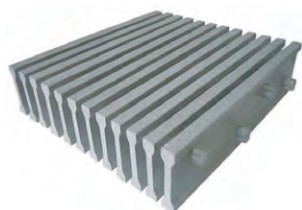


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	0.001	0.001	0.002	0.003	0.003	0.006	0.013	0.026	10046	2.80
18	0.002	0.003	0.005	0.007	0.008	0.017	0.034	0.068	6697	3.60
24	0.003	0.007	0.010	0.014	0.017	0.035	0.069	0.139	5023	4.15
30	0.006	0.013	0.019	0.025	0.032	0.063	0.126	0.253	4018	4.45
36	0.011	0.021	0.032	0.042	0.053	0.106	0.212	0.424	3349	4.58
42	0.017	0.033	0.050	0.067	0.083	0.166	0.333		2870	4.64
48	0.025	0.049	0.074	0.099	0.124	0.247	0.494		2511	4.66
54	0.035	0.070	0.105	0.140	0.174	0.349			2232	4.70
60	0.048	0.095	0.143	0.191	0.238	0.477			2009	4.72
66	0.063	0.126	0.190	0.253	0.316				1826	4.74
72	0.082	0.163	0.245	0.327	0.408				1674	4.76

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	0.000	0.001	0.001	0.002	0.002	0.004	0.008	0.016	12858	2.80
18	0.002	0.003	0.005	0.006	0.008	0.016	0.032	0.063	5715	3.60
24	0.004	0.009	0.013	0.017	0.022	0.043	0.087	0.173	3215	4.15
30	0.010	0.020	0.030	0.040	0.049	0.099	0.198	0.395	2057	4.45
36	0.020	0.040	0.060	0.080	0.099	0.199	0.398		1429	4.58
42	0.036	0.073	0.109	0.146	0.182	0.364			1050	4.64
48	0.062	0.124	0.185	0.247	0.309				804	4.66
54	0.098	0.196	0.294	0.393	0.491				635	4.7
60	0.149	0.298	0.447						514	4.72
66	0.217	0.434							425	4.74
72	0.306	0.612							357	4.76

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 4.07 in ² I = 0.90 in ⁴ S = 1.20 in ³	15	1.5"	0.78"	3.74

**I 30-40-ADA
I Bearing Bar
3" Thick
40% Open**

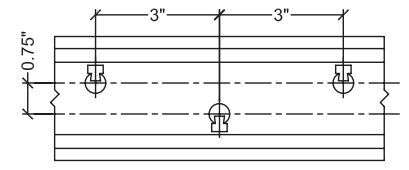
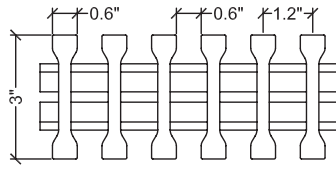
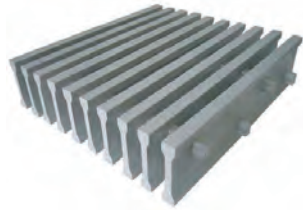


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.003	0.006	59580	12.45
18	<0.001	<0.001	<0.001	0.001	0.002	0.003	0.006	0.012	39720	19.96
24	<0.001	0.001	0.002	0.002	0.003	0.005	0.011	0.021	29790	26.81
30	<0.001	0.002	0.003	0.003	0.004	0.009	0.017	0.034	23832	32.86
36	0.001	0.003	0.004	0.005	0.006	0.013	0.026	0.051	19860	37.90
42	0.002	0.004	0.006	0.007	0.009	0.018	0.037	0.073	17023	42.09
48	0.003	0.005	0.008	0.010	0.013	0.025	0.051	0.101	14895	45.51
54	0.003	0.007	0.010	0.014	0.017	0.034	0.068	0.136	13240	48.27
60	0.004	0.009	0.013	0.018	0.022	0.045	0.090	0.179	11916	50.22
66	0.006	0.012	0.017	0.023	0.029	0.058	0.116	0.232	10833	51.62
72	0.007	0.015	0.022	0.030	0.037	0.074	0.148	0.296	9930	52.62

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	<0.001	<0.001	<0.001	0.001	0.002	0.004	76262	12.45
18	<0.001	<0.001	<0.001	0.001	0.001	0.003	0.006	0.011	33894	19.96
24	<0.001	0.001	0.002	0.003	0.003	0.007	0.013	0.027	19066	26.81
30	0.001	0.003	0.004	0.005	0.007	0.013	0.027	0.053	12202	32.86
36	0.002	0.005	0.007	0.010	0.012	0.024	0.048	0.096	8474	37.9
42	0.004	0.008	0.012	0.016	0.020	0.040	0.080	0.160	6226	42.09
48	0.006	0.013	0.019	0.025	0.032	0.063	0.127	0.253	4766	45.51
54	0.010	0.019	0.029	0.038	0.048	0.096	0.191	0.382	3766	48.27
60	0.014	0.028	0.042	0.056	0.070	0.140	0.280	0.560	3050	50.22
66	0.020	0.040	0.060	0.080	0.100	0.199	0.399		2521	51.62
72	0.028	0.055	0.083	0.111	0.139	0.277	0.554		2118	52.62

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 14.44 in ² I = 13.76 in ⁴ S = 9.18 in ³	12	3"	1"	12.28

I 30-50
I Bearing Bar
3" Thick
50% Open

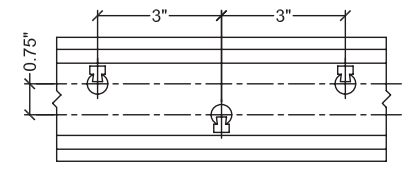
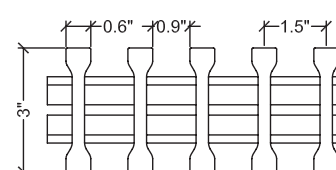
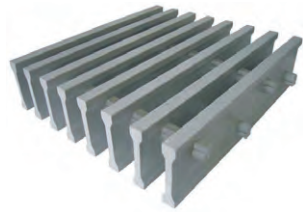


Span (inches)	CONCENTRATED LOAD in lb/ft of width								Max Load (lb/ft)	Apparent EI x 10 ⁶ (lb-in ²)
	50	100	150	200	250	500	1000	2000		
12	<0.001	<0.001	<0.001	<0.001	0.001	0.002	0.004	0.008	46720	8.56
18	<0.001	<0.001	0.001	0.002	0.002	0.004	0.008	0.016	31147	15.02
24	<0.001	0.001	0.002	0.003	0.003	0.007	0.014	0.027	23360	21.12
30	0.001	0.002	0.003	0.004	0.005	0.010	0.021	0.042	18688	26.84
36	0.002	0.003	0.005	0.006	0.008	0.015	0.030	0.060	15573	32.25
42	0.002	0.004	0.006	0.008	0.011	0.021	0.042	0.084	13349	36.75
48	0.003	0.006	0.009	0.011	0.014	0.029	0.057	0.115	11680	40.14
54	0.004	0.008	0.011	0.015	0.019	0.038	0.076	0.153	10382	43.00
60	0.005	0.010	0.015	0.020	0.025	0.050	0.100	0.201	9344	44.86
66	0.007	0.013	0.020	0.026	0.033	0.065	0.130	0.260	8495	46.00
72	0.008	0.017	0.025	0.033	0.041	0.083	0.165	0.331	7787	47.00

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	<0.001	<0.001	<0.001	0.001	0.003	0.005	59802	8.56
18	<0.001	<0.001	0.001	0.002	0.002	0.004	0.008	0.015	26578	15.02
24	<0.001	0.002	0.003	0.003	0.004	0.009	0.017	0.034	14950	21.12
30	0.002	0.003	0.005	0.007	0.008	0.016	0.033	0.065	9568	26.84
36	0.003	0.006	0.008	0.011	0.014	0.028	0.057	0.113	6645	32.25
42	0.005	0.009	0.014	0.018	0.023	0.046	0.092	0.184	4882	36.75
48	0.007	0.014	0.022	0.029	0.036	0.072	0.143	0.287	3738	40.14
54	0.011	0.021	0.032	0.043	0.054	0.107	0.215	0.429	2953	43.00
60	0.016	0.031	0.047	0.063	0.078	0.157	0.313	0.627	2392	44.86
66	0.022	0.045	0.067	0.090	0.112	0.224	0.448		1977	46.00
72	0.031	0.062	0.093	0.124	0.155	0.310	0.620		1661	47.00

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 12.04 in ² I = 11.47 in ⁴ S = 7.65 in ³	10	3"	1.2"	10.34

I 30-60
I Bearing Bar
3" Thick
60% 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	<0.001	<0.001	0.001	0.001	0.003	0.005	0.011	34635	6.85
18	<0.001	0.001	0.002	0.002	0.003	0.005	0.010	0.021	23090	11.68
24	<0.001	0.002	0.003	0.003	0.004	0.009	0.017	0.035	17318	16.68
30	0.001	0.003	0.004	0.005	0.007	0.014	0.027	0.054	13854	20.78
36	0.002	0.004	0.006	0.008	0.010	0.019	0.039	0.077	11545	25.24
42	0.003	0.005	0.008	0.010	0.013	0.026	0.052	0.105	9896	29.42
48	0.004	0.007	0.011	0.014	0.018	0.035	0.070	0.141	8659	32.70
54	0.005	0.009	0.014	0.019	0.023	0.047	0.094	0.187	7697	35.00
60	0.006	0.012	0.019	0.025	0.031	0.062	0.124	0.248	6927	36.30
66	0.008	0.016	0.024	0.032	0.040	0.080	0.160	0.320	6297	37.40
72	0.010	0.020	0.030	0.041	0.051	0.102	0.203	0.406	5773	38.30

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	<0.001	<0.001	<0.001	0.002	0.003	0.007	44333	6.85
18	<0.001	0.001	0.001	0.002	0.002	0.005	0.010	0.020	19703	11.68
24	0.001	0.002	0.003	0.004	0.005	0.011	0.022	0.043	11083	16.68
30	0.002	0.004	0.006	0.008	0.011	0.021	0.042	0.085	7093	20.78
36	0.004	0.007	0.011	0.014	0.018	0.036	0.072	0.144	4926	25.24
42	0.006	0.011	0.017	0.023	0.029	0.057	0.115	0.230	3619	29.42
48	0.009	0.018	0.026	0.035	0.044	0.088	0.176	0.352	2771	32.70
54	0.013	0.026	0.040	0.053	0.066	0.132	0.264	0.527	2189	35.00
60	0.019	0.039	0.058	0.077	0.097	0.194	0.387		1773	36.30
66	0.028	0.055	0.083	0.110	0.138	0.275	0.551		1466	37.40
72	0.038	0.076	0.114	0.152	0.190	0.381			1231	38.30

Properties Per Foot of Width	# of Bars	Load Bar Depth	Bar Centers	Weight/sq ft
A = 9.63 in ² I = 9.18 in ⁴ S = 6.12 in ³	8	3"	1.5"	8.40