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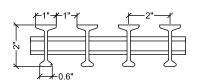
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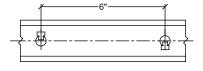
Product Group: Pultruded Fiberglass Grating

2" Deep T-Bearing Bar (T 20-50)

2" Thick / 50% Open



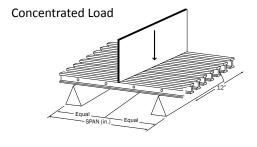




Span (inches)	CONCENTRATED LOAD in lbs/ft of width								Max	Apparent El x 10^6	
	50	100	150	200	250	500	1000	2000	Load	(lb-in²)	
12	0.001	0.002	0.003	0.004	0.005	0.010	0.020	0.040	13302	1.80	
18	0.001	0.003	0.004	0.006	0.007	0.015	0.029	0.059	8868	4.15	
24	0.002	0.005	0.007	0.009	0.012	0.023	0.047	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 lbs/ft ²									Apparent El x 10^6
	50	100	150	200	250	500	1000	2000	Load	(lb-in²)
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	



Uniform Load



- 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.
- 2. The designer should not exceed MAXIMUM RECOMMENDED load at any time. MAXIMUM LOAD represents a factor of safety of 2:1 for pultruded grating 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" (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 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.