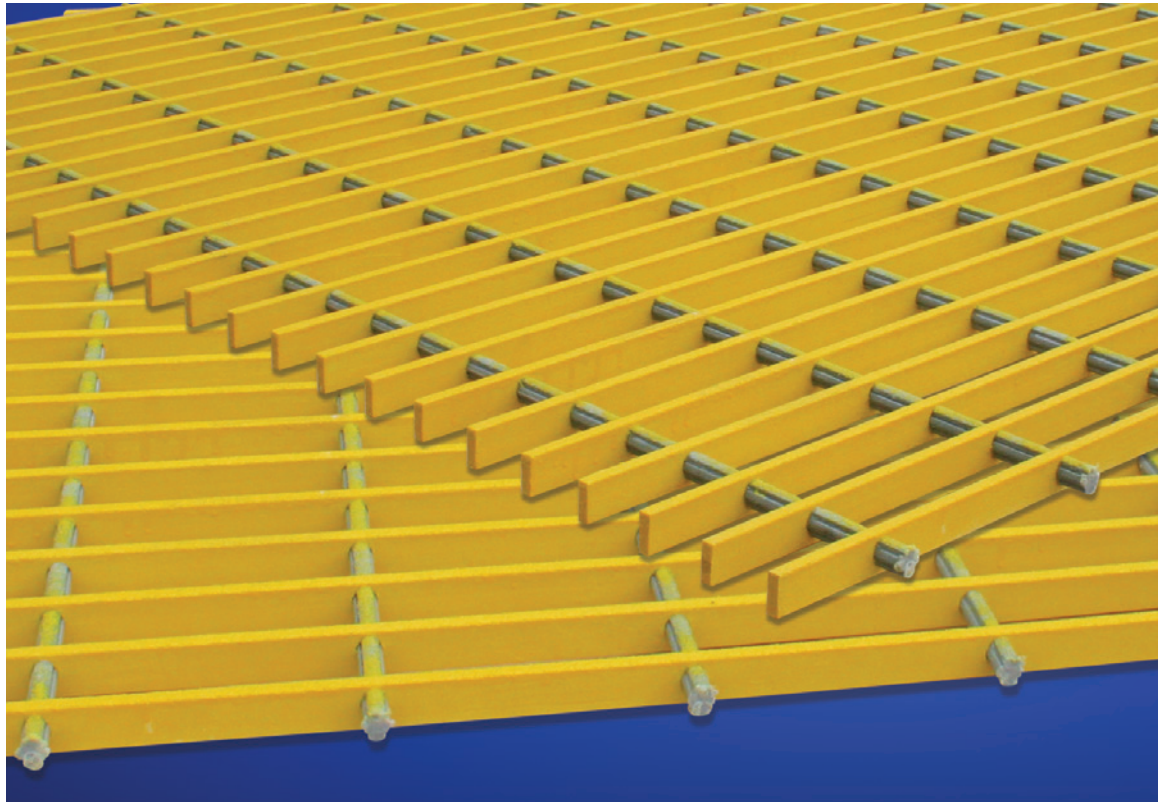


DURAGRID®

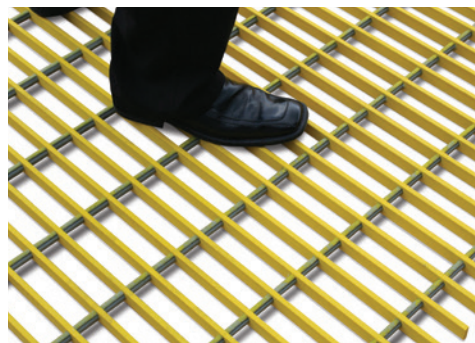
R-8300 1" FIBERGLASS GRATING



- **Lightweight**
- **Easy to Install**
- **Rot, Rust & Mildew Resistant**
- **Low in Conductivity**
- **Strong**
- **Flame Retardant**
- **Low in Maintenance**

DURAGRID® R-8300 1" fiberglass grating is specially designed for use in environments such as cooling towers where maximizing air flow is important. The smooth rectangular bar construction yields 83% open space allowing excellent airflow while still providing 60 lbs. per square foot load capacity on a 36" loading span. In addition, the deflection at 60psf is only 1/8" or about one-half the deflection limit.

DURAGRID® R-8300 1" fiberglass grating weighs only 2.2 lbs. per square foot with grating bars spaced at 1.875", center to center. The grating can be safely used for maintenance walkways and access platforms.

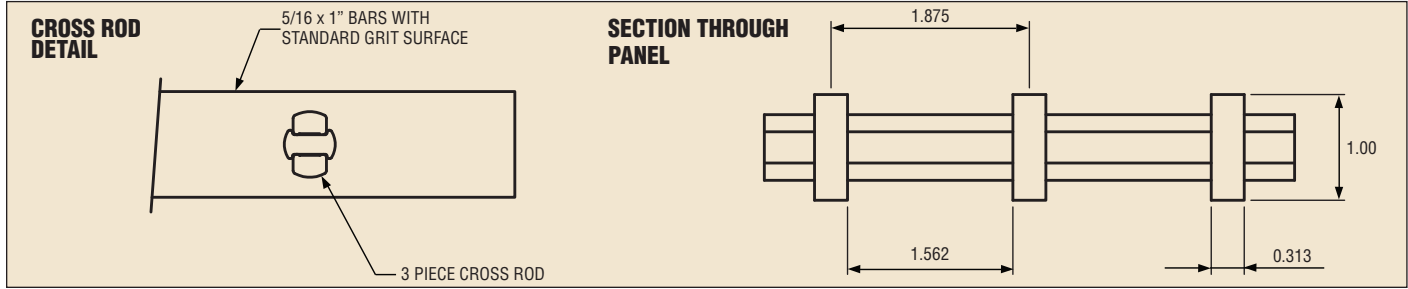


DURAGRID® R-8300 1" fiberglass grating is produced in safety yellow color allowing excellent visibility.

Materials of Construction

DURAGRID® R-8300 1" fiberglass grating is a composite of fiberglass roving and mat with a polyester thermoset resin system, produced by the pultrusion process. The bearing bars use both longitudinal glass rovings and multidirectional continuous strand mat, as well as a synthetic surfacing veil to provide high strength and corrosion resistance. The bearing bars are connected together by Strongwell's unique 3-piece cross rod assembly system using epoxy resin to bond the bearing bars and cross rods together.

Dimensional Details



DURAGRID® R-8300 1" Bearing Bar

A = 2.003 IN²/FT OF WIDTH I = 0.166 IN⁴/FT OF WIDTH S = 0.332 IN³/FT OF WIDTH
 83% OPEN AREA APPROX. WT. = 2.2 LBS/SQ FT

SPAN (INCHES)		LOAD														SAFE LOAD 2:1 SAFETY FACTOR	DEFLECTION E x 10 ⁶ psi	
		50	100	150	200	250	300	400	500	750	1000	2000	3000	4000	5000			
12	Δu	0.002	0.003	0.005	0.007	0.009	0.010	0.014	0.017	0.026	0.034	0.069	0.103	0.138	0.172	8200	0.282	3.94
	Δc	0.003	0.006	0.008	0.011	0.014	0.017	0.022	0.028	0.041	0.055	0.110	0.165	0.220	0.275	4100	0.226	
18	Δu	0.007	0.015	0.022	0.030	0.037	0.044	0.059	0.074	0.111	0.148	0.295	0.443	0.590	0.738	3600	0.531	4.65
	Δc	0.008	0.016	0.024	0.031	0.039	0.047	0.063	0.079	0.118	0.157	0.315	0.472	0.630	0.787	2700	0.425	
24	Δu	0.022	0.045	0.067	0.090	0.112	0.135	0.180	0.225	0.337	0.449	0.898	1.347			2000	0.898	4.83
	Δc	0.018	0.036	0.054	0.072	0.090	0.108	0.144	0.180	0.269	0.359	0.718	1.078	1.437		2000	0.718	
30	Δu	0.053	0.105	0.158	0.211	0.264	0.316	0.422	0.527	0.791	1.055					1280	1.350	5.02
	Δc	0.034	0.068	0.101	0.135	0.169	0.203	0.270	0.338	0.506	0.675	1.350				1600	1.080	
36	Δu	0.106	0.211	0.317	0.422	0.528	0.633	0.845	1.056	1.583						870	1.837	5.20
	Δc	0.056	0.113	0.169	0.225	0.282	0.338	0.450	0.563	0.845	1.126					1300	1.464	
42	Δu	0.194	0.389	0.583	0.778	0.972	1.167	1.556								630	2.450	5.23
	Δc	0.089	0.178	0.267	0.356	0.444	0.533	0.711	0.889	1.333						1100	1.956	
48	Δu	0.330	0.661	0.991	1.322											500	3.305	5.25
	Δc	0.132	0.264	0.397	0.529	0.661	0.793	1.057	1.322							1000	2.644	
54	Δu	0.526	1.053	1.579												400	4.211	5.28
	Δc	0.187	0.374	0.561	0.749	0.936	1.123	1.497								900	3.369	

NOTE: The red line () indicates at what point the load weight has ≤ .25" deflection.



GEF INCORPORATED

6497 Winfield Rd
 Winfield, WV 25213
 (Office) 304-755-1600
 (Toll Free) 800-784-0529
 (Fax) 304-755-3150

www.gefinc.com

