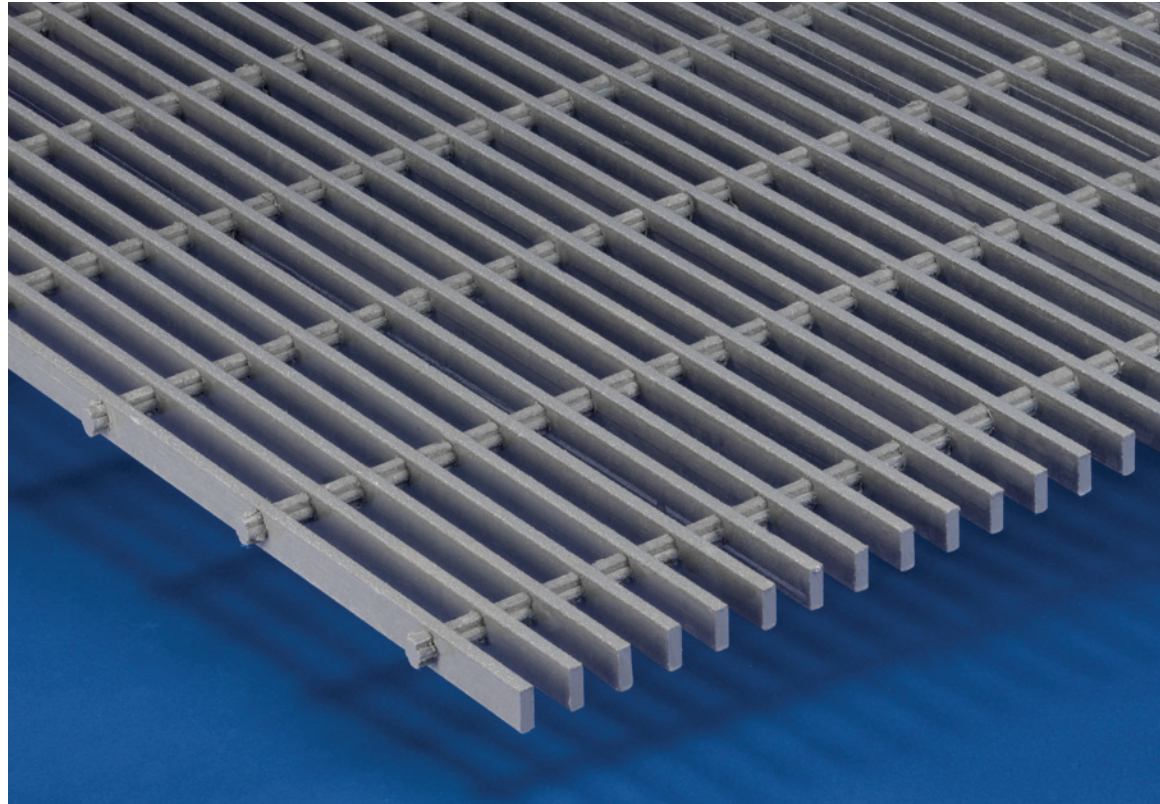


DURAGRID®

R-7300 1" FIBERGLASS GRATING



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

DURAGRID® R-7300 1" fiberglass grating is specially designed to replace 1" steel grating in corrosive environments. The rectangular bar construction yields 73% open space and aligns identically to standard steel grating. The bearing bar spacing of 1.1875" on center is the same spacing as standard steel grating and provides a replacement that is similar in appearance. DURAGRID® R-7300 1" fiberglass grating will not rust and corrode like steel grating and will reduce maintenance costs.



DURAGRID® R-7300 1" fiberglass grating weighs only 3.2 lbs. per square foot, less than half the 7.4 lbs. per square foot for 1" steel grating. The fiberglass grating will also span 36" with a load of 100 lbs. per square foot resulting in deflection of less than 1/4".

DURAGRID® R-7300 1" fiberglass grating is produced in gray or safety yellow.

Materials of Construction

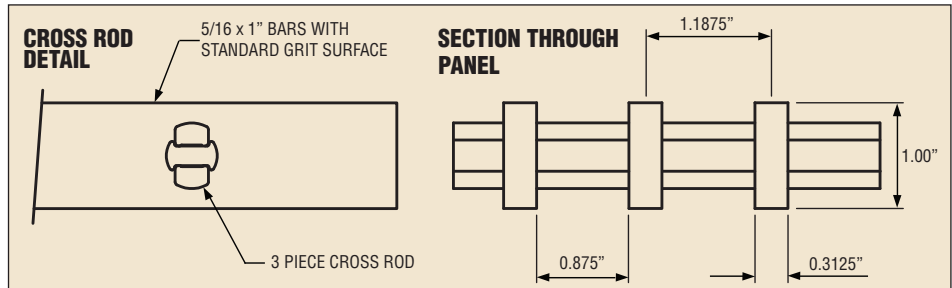
DURAGRID® R-7300 1" fiberglass grating is a composite of fiberglass roving and mat with a polyester thermoset resin system, produced by the pultrusion process. The bearing bars use both longitudinal glass rovings and multidirectional continuous strand mat, as well as a synthetic surfacing veil to provide 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. The two standard colors are gray and yellow.

Accessories



One method for holding down the R-7300 is to use the Hilti Power-Actuated X-GR-RU. This offers quick installation and removal.

Dimensional Details



DURAGRID® R-7300 1" Bearing Bar

A = 3.163 IN²/FT OF WIDTH I = 0.262 IN²/FT OF WIDTH S = 0.524 IN³/FT OF WIDTH
73% OPEN AREA APPROX. WT. = 3.2 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	0.001	0.002	0.003	0.004	0.005	0.007	0.009	0.011	0.016	0.022	0.044	0.065	0.087	0.109	12940	0.282	3.94
	Δc	0.002	0.003	0.005	0.007	0.009	0.010	0.014	0.017	0.026	0.035	0.070	0.105	0.139	0.174	6470	0.226	
18	Δu	0.005	0.009	0.014	0.019	0.023	0.028	0.037	0.047	0.070	0.093	0.187	0.280	0.374	0.467	5680	0.531	4.65
	Δc	0.005	0.010	0.015	0.020	0.025	0.030	0.040	0.050	0.075	0.100	0.199	0.299	0.399	0.499	4260	0.425	
24	Δu	0.014	0.028	0.043	0.057	0.071	0.085	0.114	0.142	0.213	0.284	0.569				3150	0.898	4.83
	Δc	0.011	0.023	0.034	0.046	0.057	0.068	0.091	0.114	0.171	0.228	0.455	0.683			3150	0.719	
30	Δu	0.033	0.067	0.100	0.134	0.167	0.200	0.267	0.334	0.501	0.668					2020	1.351	5.02
	Δc	0.021	0.043	0.064	0.086	0.107	0.128	0.171	0.214	0.321	0.428					2520	1.080	
36	Δu	0.067	0.134	0.201	0.268	0.334	0.401	0.535	0.669							1370	1.838	5.20
	Δc	0.036	0.071	0.107	0.143	0.178	0.214	0.285	0.357	0.535						2050	1.464	
42	Δu	0.123	0.246	0.370	0.493	0.616										990	2.451	5.23
	Δc	0.056	0.113	0.169	0.225	0.282	0.338	0.451	0.563							1730	1.956	
48	Δu	0.209	0.419	0.628												780	3.306	5.25
	Δc	0.084	0.168	0.251	0.335	0.419	0.503	0.670								1570	2.645	
54	Δu	0.333	0.667													630	4.212	5.28
	Δc	0.119	0.237	0.356	0.474	0.593										1420	3.370	

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

