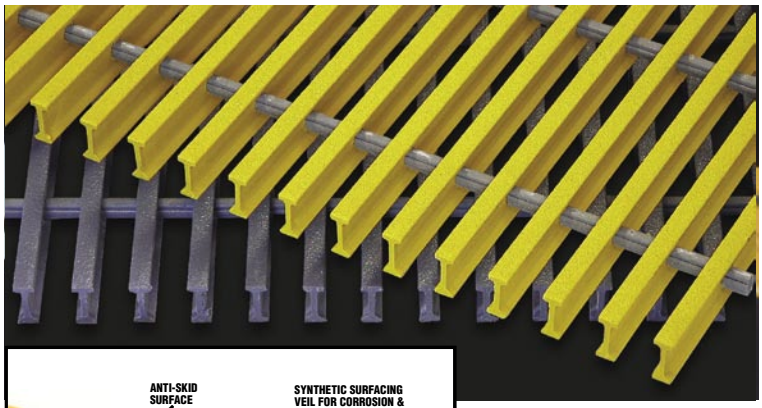
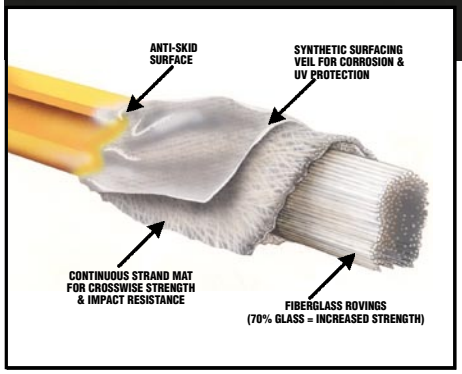
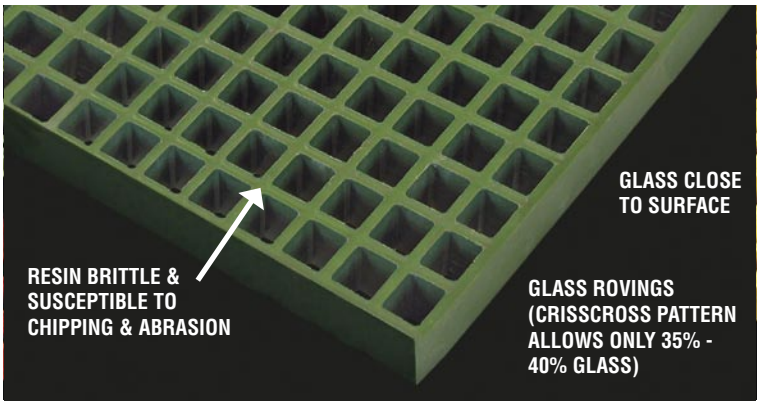
Now the superior strength and performance of pultruded grating
at or below the price of comparably sized molded grating!

COMPARE

DURAGRID® I-6500 1-1/2" Pultruded Grating vs. 1-1/2" Thick x 1-1/2" Square Molded Grating







Strongwell's DURAGRID® I-6500 high strength pultruded grating offers something truly special to the customer— the strength and performance of pultruded grating but at or *below* the price for comparably sized molded grating!

Many customers choose to use molded grating based upon price rather than performance. Now Strongwell offers a product that gives the customer the best of both worlds—high performance and low price!

Because of the differences in the manufacturing processes, DURAGRID® pultruded grating offers distinct advantages over comparably sized molded grating. Compare for yourself the features of both pultruded and molded grating below and on the back of this page.

COMPARE!	**DURAGRID® I-6500 1-1/2" PULTRUDED GRATING**	**VS. 1-1/2" THICK 1-1/2" SQUARE MOLDED GRATING**
STRENGTH	DURAGRID® I-6500 pultruded grating is an engineered composite containing 65%-70% glass. Higher glass content increases strength in composites. The "I" bearing bar shape also is more efficient in strength-to-weight ratio. When a 100 pounds per square foot uniform load is placed upon a 54" simple span, it will produce a deflection of 1/4" at midspan.	Because of cross-pattern interference, molded grating contains only 35%-40% glass. When a 100 pounds per square foot uniform load is placed upon a 38" simple span, it will produce a deflection of 1/4" at midspan.
IMPACT RESISTANCE	DURAGRID® I-6500 contains glass mat which distributes impact loads to prevent surface damage and provides good transverse strength.	Molded grating does not contain glass mat and is primarily made of resin, which is more brittle and susceptible to chipping and abrasion.
CORROSION RESISTANCE	DURAGRID® I-6500 is manufactured using a premium grade polyester resin for superior corrosion resistance. The pultrusion process precisely controls the alignment of glass fibers and the surfacing veil pushes the glass rovings away from the surface for a smooth, void-free, 100% resin-rich surface to protect the product from corrosion.	The general purpose orthophthalic polyester resin used in molded grating offers less protection from corrosion. Also, veils and mats are not used in the molded grating process. The molding process does not precisely control placement of glass. Rovings are allowed near the surface, where there is little resin cover. The molding process also results in trapped air which causes voids — exposing grating directly to chemical attack.
FIELD FABRICATION	DURAGRID® I-6500 can be field fabricated with simple carpenter tools and is easy to cut.	Slightly more difficult to cut than pultruded grating.
AVAILABILITY	DURAGRID® I-6500 is made in the USA and is available for immediate shipment from three stocking locations across the country.	Most molded grating is made outside the United States. Availability can be limited and product shipment can be problematic, which often results in long lead times.
COST	DURAGRID® I-6500 is very cost competitive with molded grating. Depending on quantity purchased, pricing can actually be *lower* than molded grating.	Cost varies greatly with resin series selected.

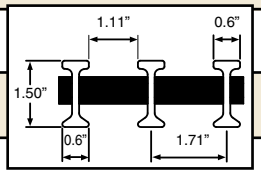
For pricing call: GEF Incorporated, Winfield WV (304) 755-1600

COMPARE! DURAGRID® I-6500 1-1/2" PULTRUDED GRATING VS. 1-1/2" THICK 1-1/2" SQUARE MOLDED GRATING

DURAGRID® I-6500 1-1/2" Pultruded Grating, Bearing Bars Spaced 1.71" On Center

A = 2.752 IN²/FT OF WIDTH S = 1.088 IN³/FT OF WIDTH I = 0.814 IN⁴/FT OF WIDTH
65% OPEN AREA APPROX. WT. = 2.7 LBS/SQ FT

SPAN INCHES		LOAD 50	100	150	200	250	300	400	500	750	1000	2000	3000	4000	5000	SAFE LOAD 2:1 SAFETY FACTOR	DEFLECTION	E x 10⁶ PSI
12	Δu		0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.007	0.015	0.022	0.029	0.036	15439	0.113	3.79
	Δc	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.006	0.009	0.012	0.023	0.035	0.047	0.058	7719	0.090	
18	Δu	0.002	0.003	0.005	0.007	0.009	0.010	0.014	0.017	0.026	0.035	0.069	0.104	0.138	0.173	6862	0.237	4.05
	Δc	0.002	0.004	0.006	0.007	0.009	0.011	0.015	0.018	0.028	0.037	0.074	0.111	0.147	0.184	5146	0.190	
24	Δu	0.005	0.010	0.016	0.021	0.026	0.031	0.042	0.052	0.078	0.104	0.209	0.313	0.417	0.522	3860	0.403	4.24
	Δc	0.004	0.008	0.013	0.017	0.021	0.025	0.033	0.042	0.063	0.083	0.167	0.250	0.334	0.417	3860	0.322	
30	Δu	0.012	0.025	0.037	0.049	0.061	0.074	0.098	0.123	0.184	0.245	0.491				2433	0.597	4.40
	Δc	0.008	0.016	0.024	0.031	0.039	0.047	0.063	0.079	0.118	0.157	0.314	0.471	0.628		3041	0.478	
36	Δu	0.025	0.050	0.075	0.100	0.124	0.149	0.199	0.249	0.373	0.498					1663	0.827	4.50
	Δc	0.013	0.027	0.040	0.053	0.066	0.080	0.106	0.133	0.199	0.265	0.531				2495	0.662	
42	Δu	0.045	0.090	0.136	0.181	0.226	0.271	0.361	0.452	0.678						1194	1.079	4.59
	Δc	0.021	0.041	0.062	0.083	0.103	0.124	0.165	0.207	0.310	0.413					2088	0.863	
48	Δu	0.076	0.152	0.228	0.304	0.380	0.456	0.607								892	1.354	4.66
	Δc	0.030	0.061	0.091	0.121	0.152	0.182	0.243	0.304	0.456	0.607					1784	1.083	
54	Δu	0.120	0.241	0.361	0.481	0.602										681	1.640	4.71
	Δc	0.043	0.086	0.128	0.171	0.214	0.257	0.342	0.428	0.642						1533	1.312	
60	Δu	0.182	0.364	0.547												533	1.944	4.74
	Δc	0.058	0.117	0.175	0.233	0.292	0.350	0.467	0.583							1333	1.555	
66	Δu	0.266	0.531													425	2.259	4.76
	Δc	0.077	0.155	0.232	0.309	0.386	0.464	0.618								1170	1.808	

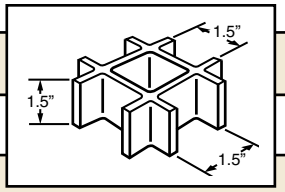


NOTE: When a 100 pounds per square foot uniform load is placed upon a 54" simple span, it will produce a deflection of 1/4" at midspan.

DURAGRATE® 1-1/2" Thick 1-1/2" Square Mesh Molded Grating

A=2.85 IN²/FT OF WIDTH S=0.65 IN³/FT OF WIDTH I=0.51 IN⁴/FT OF WIDTH
70% OPEN AREA APPROX. WT. = 3.8 LBS/SQ FT

SPAN INCHES		LOAD 50	100	150	200	250	300	400	500	SAFE LOAD 5:1 SAFETY FACTOR	DEFLECTION	E x 10⁶ PSI
12	Δu	<0.010	<0.010	<0.010	<0.010	<0.010	0.011	0.014	0.018	3120	0.111	1.24
	Δc	<0.010	<0.010	<0.010	0.011	0.014	0.017	0.023	0.028	1560	0.089	
18	Δu	<0.010	0.014	0.021	0.028	0.036	0.043	0.057	0.071	1386	0.197	1.57
	Δc	<0.010	0.015	0.023	0.030	0.038	0.046	0.061	0.076	1040	0.158	
24	Δu	0.021	0.042	0.063	0.084	0.104	0.125	0.167	0.209	780	0.326	1.69
	Δc	0.017	0.033	0.050	0.067	0.084	0.100	0.134	0.167	780	0.261	
30	Δu	0.047	0.094	0.141	0.188	0.235	0.283	0.377	0.471	496	0.467	1.83
	Δc	0.030	0.060	0.090	0.121	0.151	0.181	0.241	0.301	620	0.374	
36	Δu	0.096	0.192	0.288	0.384	0.480	0.576			347	0.666	1.86
	Δc	0.051	0.102	0.154	0.205	0.256	0.307	0.410	0.512	520	0.533	
42	Δu	0.175	0.350	0.525						251	0.881	1.89
	Δc	0.080	0.160	0.240	0.320	0.400	0.480	0.641	0.801	440	0.705	
48	Δu	0.287	0.573							170	0.975	1.97
	Δc	0.115	0.229	0.344	0.459	0.573	0.688			340	0.780	



NOTE: When a 100 pounds per square foot uniform load is placed upon a 38" simple span, it will produce a deflection of 1/4" at midspan.

THE CHOICE! **DURAGRID® High Strength, Pultruded Fiberglass Grating!**

GEF Incorporated

For pricing call: GEF Incorporated, Winfield WV (304) 755-1600

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