IMC/TEDDY
DECADES OF FINE CRAFTSMANSHIP

PFG
Pultruded Fiberglass Grating

General Information

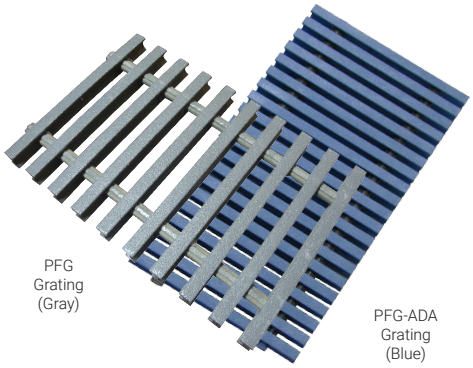
Project Name: _____

Consultant: _____

Item #: _____

Model #: _____

Quantity: _____



PFG Grating (Gray)

PFG-ADA Grating (Blue)

Specifications

PFG Model Pultruded Fiberglass Grating is constructed of panels with a permanently bonded grit, baked epoxy, anti-skid surface.

Bearing bars are 1" deep "I" bars with 0.6" wide top flange. Standard gray grating bars are spaced 0.9" apart.

PFG-ADA Compliant Blue grating bars are spaced 0.4" apart.

Gratings are sized up to 20" long sections.

Product Guide

PFG Pultruded Fiberglass Grating is an ideal substitute for steel or aluminum gratings. Long life, inherent in fiberglass (often outlasts steel 20-to-1), makes PFG a problem solving material where frequent replacement costs are unacceptable.

Pultruded Fiberglass Gratings are corrosion resistant, structurally strong, fire retardant, lightweight, anti-slip surface & low maintenance.

Options

- ☐ Change Color to Yellow (Same Price as Gray)
- ☐ Custom Sizes

*See Price List for more options

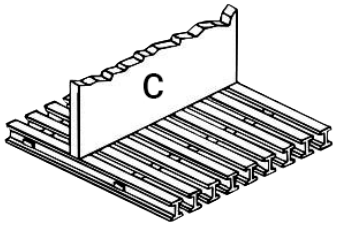
PFG 1" BEARING BARS SPACED 0.9" APART

A=2.496 IN²/FT OF WIDTH S=0.656 IN³/FT OF WIDTH I=0.328 IN⁴/FT OF WIDTH

SPAN INCHES																				MINIMUM LOAD	SAFE LOAD 2:1 SAFETY FACTOR	E x 10⁶ PSI
12	u Δu	200 .004	400 .007	600 .011	800 .015	1000 .018	1500 .027	2000 .036	2500 .045	3000 .054	4000 .073	5000 .091	6000 .109	7000 .127	8000 .145	9000 .163	10000 .181	20,800 .378	10,400 .189	3.78
	c Δc	100 .003	200 .006	300 .009	400 .012	500 .014	750 .022	1000 .029	1250 .036	1500 .043	2000 .058	2500 .073	3000 .087	3500 .102	4000 .116	4500 .130	5000 .145	10,400 .301	5,200 .150	
18	u Δu	133 .011	267 .022	400 .033	533 .045	667 .056	1000 .084	1333 .112	1667 .139	2000 .167	2667 .223	3333 .279	4000 .335	4667 .390				9,908 .828	4,954 .414	4.15
	c Δc	100 .009	200 .018	300 .026	400 .036	500 .045	750 .067	1000 .090	1250 .111	1500 .134	2000 .178	2500 .223	3000 .268	3500 .312				7,430 .662	3,715 .331	
24	u Δu	100 .025	200 .050	300 .075	400 .100	500 .124	750 .187	1000 .249	1250 .311	1500 .373	2000 .498	2500 .622						5,800 1.442	2,900 .721	4.41
	c Δc	100 .020	200 .040	300 .060	400 .080	500 .099	750 .150	1000 .199	1250 .249	1500 .298	2000 .398	2500 .498						5,800 1.154	2,900 .577	
30	u Δu	80 .046	160 .092	240 .139	320 .185	400 .231	600 .346	800 .462	1000 .577	1200 .693	1600 .924							3,712 2.143	1,856 1.071	4.63
	c Δc	100 .037	200 .074	300 .111	400 .148	500 .185	750 .277	1000 .370	1250 .462	1500 .554	2000 .739							4,640 1.714	2,320 .857	
36	u Δu	67 .077	133 .153	200 .230	267 .307	333 .383	500 .575	667 .767	833 .957									2,577 2.962	1,287 1.481	4.83
	c Δc	100 .062	200 .122	300 .184	400 .246	500 .306	750 .460	1000 .614	1250 .766									3,866 2.369	1,933 1.184	

*Loading to the left of the bold vertical line in a row produce deflection of less than .25 inches.

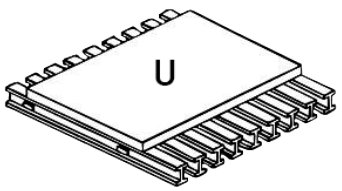
c IS CONCENTRATED LOAD LBS/FT OF WIDTH
Δc IS DEFLECTION UNDER CONCENTRATED LOAD
u IS UNIFORM LOAD LBS/FT²
Δu IS DEFLECTION UNDER UNIFORM LOAD



PFG-ADA 1" BEARING BARS SPACED 0.4" APART

VALUES FOR 12 BARS PER FT OF WIDTH
A=3.744 IN²/FT OF WIDTH S=0.984 IN³/FT OF WIDTH I=0.492 IN⁴/FT OF WIDTH
WEIGHT/FOOT=.253 LBS/FT OF BAR
WEIGHT/FOOT=.302 LBS/FT OF CROSS ROAD

SPAN INCHES																					MINIMUM LOAD	SAFE LOAD 2:1 SAFETY FACTOR	E x 10⁶ PSI
12	u Δu	200 .002	400 .005	600 .007	800 .010	1000 .012	1500 .018	2000 .024	2500 .030	3000 .036	4000 .048	5000 .060	6000 .073	7000 .085	8000 .097	9000 .109	10000 .121	11000 .133	31,200 .377	15,600 .188	3.78
	c Δc	100 .002	200 .004	300 .006	400 .008	500 .010	750 .015	1000 .019	1250 .024	1500 .029	2000 .039	2500 .048	3000 .058	3500 .068	4000 .078	4500 .087	5000 .097	5500 .107	15,600 .303	7,800 .151	
18	u Δu	133 .007	267 .015	400 .022	533 .030	667 .037	1000 .056	1333 .074	1667 .093	2000 .111	2667 .149	3333 .186	4000 .223	4667 .260	5333 .297	6000 .334	6667 .371	7333 .408	14,862 .828	7,431 .414	4.15
	c Δc	100 .006	200 .012	300 .018	400 .024	500 .030	750 .045	1000 .059	1250 .074	1500 .089	2000 .119	2500 .149	3000 .178	3500 .208	4000 .238	4500 .268	5000 .297	5500 .327	11,145 .663	5,572 .331	
24	u Δu	100 .017	200 .033	300 .050	400 .066	500 .083	750 .124	1000 .165	1250 .207	1500 .248	2000 .331	2500 .414	3000 .496	3500 .579	4000 .662				8,700 1.439	4,350 .719	4.41
	c Δc	100 .013	200 .026	300 .040	400 .053	500 .066	750 .099	1000 .132	1250 .165	1500 .199	2000 .265	2500 .331	3000 .397	3500 .463	4000 .530				8,700 1.152	4,350 .576	
30	u Δu	80 .031	160 .062	240 .092	320 .123	400 .154	600 .231	800 .308	1000 .385	1200 .462	1600 .616	2000 .770	2400 .924						5,568 2.143	2,784 1.071	4.63
	c Δc	100 .025	200 .049	300 .074	400 .099	500 .123	750 .185	1000 .246	1250 .308	1500 .370	2000 .493	2500 .616	3000 .739						6,960 1.714	3,480 .857	
36	u Δu	67 .051	133 .102	200 .153	267 .204	333 .255	500 .383	667 .511	833 .638	1000 .766	1333 1.021								3,866 2.961	1,933 1.480	4.83
	c Δc	100 .062	200 .122	300 .184	400 .246	500 .306	750 .460	1000 .614	1250 .766	1500 .613	2000 .817								5,799 2.368	2,899 1.184	



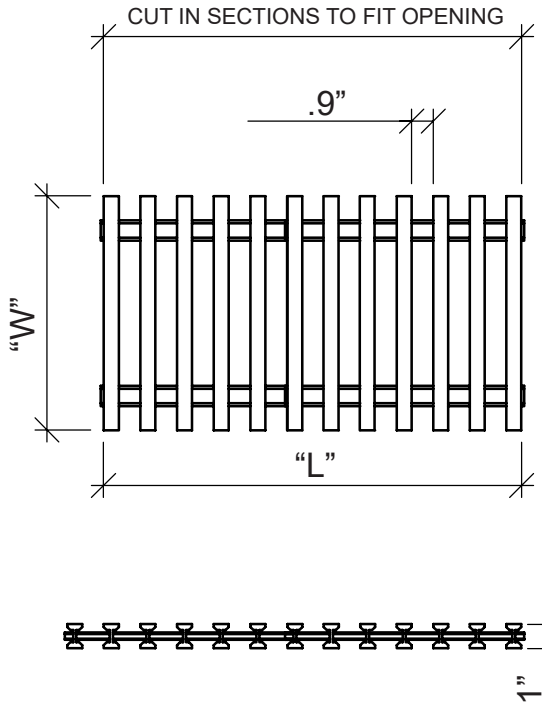
*See Price Book for Models & Pricing

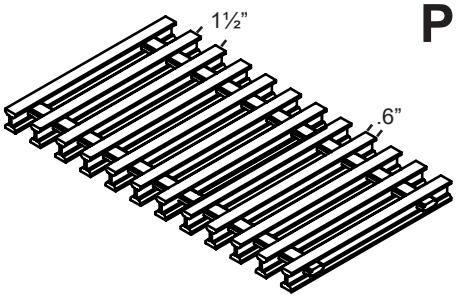
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PFG
Pultruded Fiberglass Grating

DRAWINGS

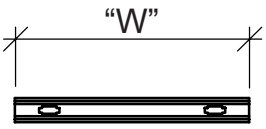
PFG



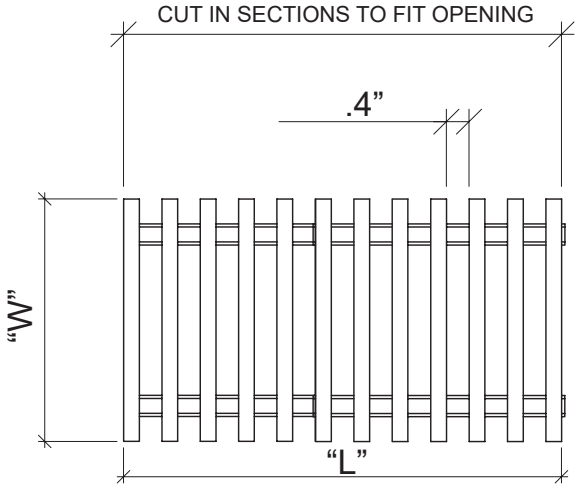


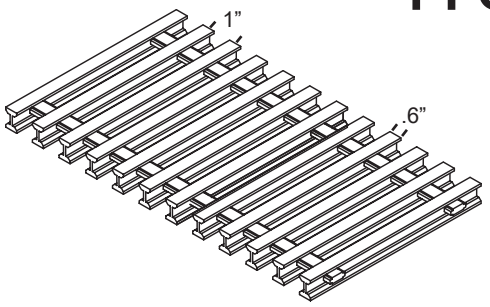
ISOMETRIC DETAIL OF
GRATING MODEL “PFG”





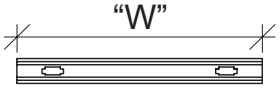
PFG-ADA

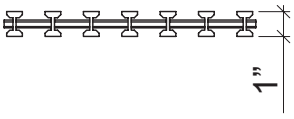




ISOMETRIC DETAIL OF
GRATING MODEL “PFG-ADA”







Specifications subject to change without notice.

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