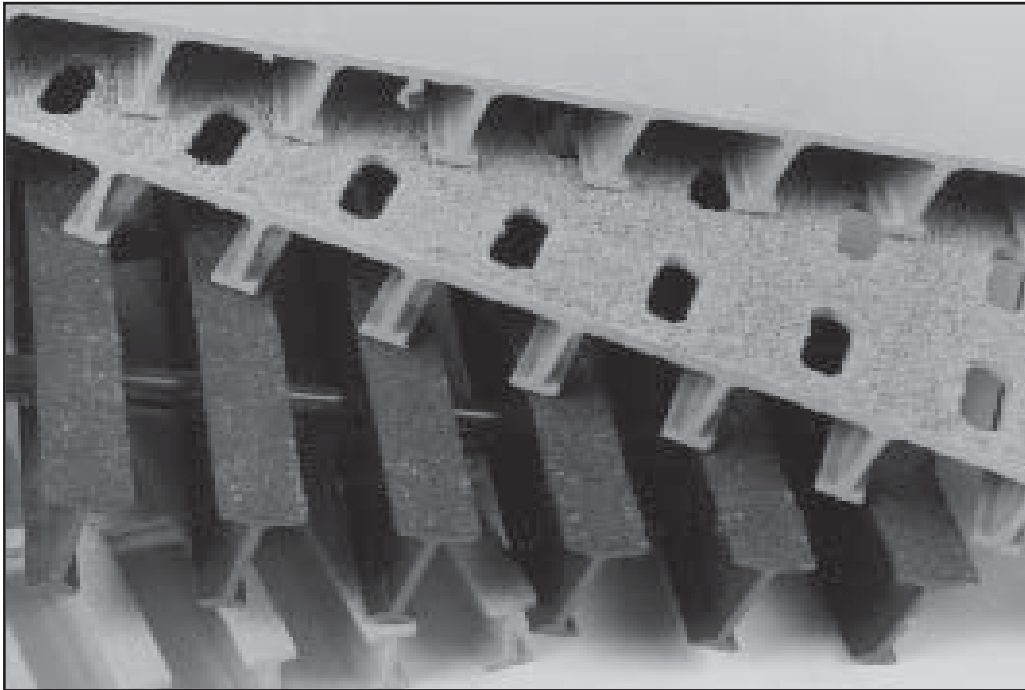




Solutions that Work

Flowgrip® and Supergrate™ Flooring Systems



Flowgrip® Flooring Panels, Supergrate™ Grating Panels and Pultex® Standard Structural Profiles meet or exceed corrosion requirements in a wide variety of industrial and commercial environments.

Creative Pultrusions, Inc. (CP) produces Flowgrip® Flooring Panels and Supergrate™ Pultruded Grating Panels in all types and styles. Pultex® standard structural profiles are manufactured in a variety of resin systems for industrial use.

Choose from standard panels and accessories or specify custom grating manufactured to your exact specifications.

Each component is designed and manufactured to perform in areas where traditional grating products corrode or decay.

As The World's Most Innovative Leader in the Fiber Reinforced Polymer Composites Industry, our sales and engineering team provides insight and solutions to your grating and access system requirements.

CP commits to serving customers with the highest levels of satisfaction. Offering the best marketing program in the industry to distributors and fabricators, CP provides solutions for many customers in many major industries.

For solutions that work for you, call the Sales Department toll free at 888-CPI-PULL (274-7855) today.



Solutions that Work...

Common Characteristics



Low Cost Installation

Lightweight fiber reinforced polymer (FRP) products are easy to handle and install, eliminating the need for costly equipment and labor.

Long Lasting

High glass-to-resin ratio provides superior strength and load-bearing characteristics for many years.

Maintenance Free*

FRP products maintain color because they are manufactured with ultra-violet inhibitors, enabling the component to withstand exposure to direct sunlight without appreciable deterioration.

Standard Resins

1525 and 1625 Series resins meet ASTM-E-84 Class 1 flame spread. Choose from multiple standard resins or call about creating special resins for unique environments such as low smoke, low toxicity or extra-low flame applications.

Resin Selection

1500 Series (I) - Isophalic polyester resin system

1525 Series (IFR) - Premium-grade isophalic polyester flame-retardant resin system

1625 Series (VFR) - Premium-grade vinyl ester, flame-retardant resin system for added protection against corrosion.

*For improved exterior weathering, urethane coatings are recommended as they have superior ultraviolet resistance and adhere well to the pultruded substrate. Urethane-coated Pultex® profiles have been exposed to advanced weathering, equivalent to 30 years of exposure, with no loss in insulation properties and only a slight loss in mechanical properties.

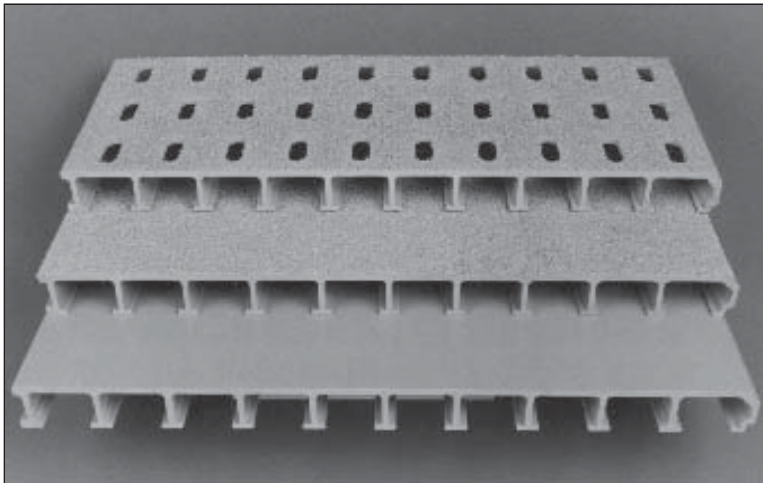




Flowgrip® Flooring Products

Most Advanced on the Market in One-Piece Construction

Flowgrip® Flooring products are used in many industrial markets for access system requirements.

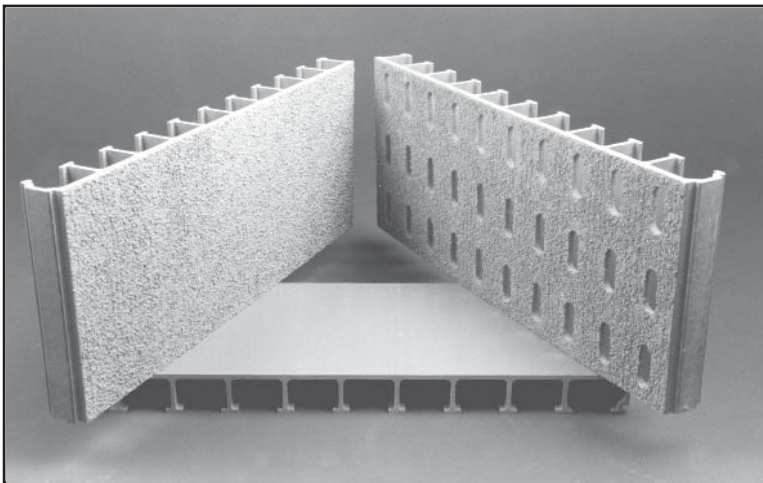


Construction Market

- Structural Flooring
- Scaffold Platforms
- Building Access Ramps
- Solid Work Platforms

Transportation Market

- Rail Platforms/Walkways
- Rail Car Floors
- Ship Engine Rooms with Deck Walkways
- Ship Gang Planks and Ramps



Offshore Market

- Platforms and Walkways
- Windwalls and Firewalls
Surrounding Machinery and
Accommodation Modules

Other Markets

- Window Cleaning Walkways
- Electrical Channal Covers
- Solid Trench Covers
- Odor Control Panels for Water and
Sewage
- Flooring for Microchip
Manufacturing
- Wheelchair Access Ramps

Flowgrip® pultruded flooring panels feature the highest strength factors available for one-piece construction grating.

*Flowgrip® is available upon request from Creative Pultrusions
Contact 888-CPI-PULL(274-7855) or
e-mail crpul@pultrude.com.*



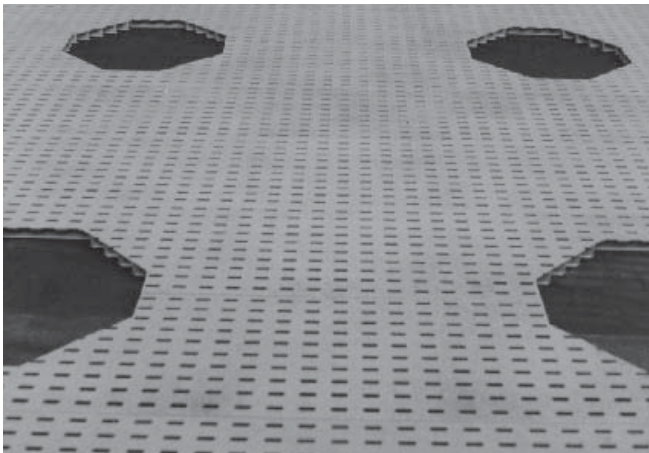
The New Flowgrip® Flooring System

Features and Benefits

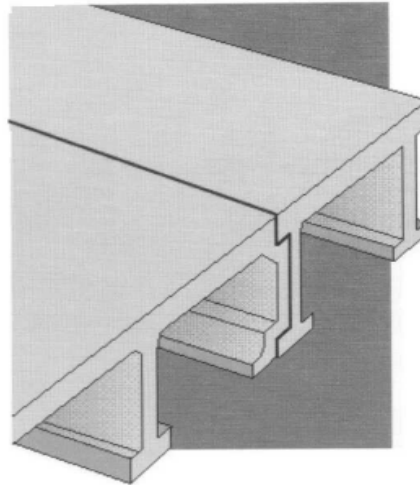
Flowgrip® Flooring Panels

Flowgrip® Flooring Panel System is the world's most advanced system for industrial and commercial applications.

- Flowgrip® Flooring Panel solid format is ideal for use in which wheeled vehicles or lifts are used.
- Solid and punched grating products are available with the same thickness to eliminate potential trip hazards or changes in support levels. Other grating products have different thicknesses.
- High impact resistant epoxy resin is impregnated with angular stone for anti-skid coating durability.



One piece construction guarantees consistency. Epoxy is not required. Previous joint problems between load and transverse bars are eliminated, making it more suitable for impact loads.



Unique tongue and groove joint eliminates the need for expensive panel clip joints.

- Flowgrip® flooring does not chip or fracture.
- Rigid, solid work platforms provide safer working conditions with minimal deflection.
- Small objects cannot pass through the floor, thus protecting personnel working below.
- The product is easily fabricated on site.

Availability

Flowgrip® flooring is available in standard size panels of 19.60" x 1.5". Both open and solid grating products are stocked in 20' and 24' lengths. Non-skid top surface is standard.

A variety of anti-skid textures and colors is available, providing greater options to specifiers.



Flowgrip® Flooring Panels

Technical Information

Part Description: Solid Flooring Panel
 Panel Width: 19.685"
 Height: 1.575"
 Web Thickness: .157"
 Top Plate Thickness: .197"
 Approx. Weight: 3.46 psf
 Apparent Modulus of Elasticity: 3.0E6 psi
 Moment of Inertia (in.⁴/ft.): 1.30

Shear Modulus of Elasticity = 170,000 psi
 Section Modulus (in.³/ft) = 1.22
 Ultimate Flexural Strength = 33,000 psi
 Ultimate Shear Strength = 4,500 psi
 CL = Concentrated Load
 (lbs per foot width of panel)
 UL = Uniform Load (lbs/ft²)

Span Inches	Load Type	Load @								.25-inch deflection	.38-inch deflection	Ultimate Load
		200	500	1000	2000	3000	4000	4772				
18	UL	200	500	1000	2000	3000	4000	4772		---	---	4772
	UL deflection	0.01	0.02	0.04	0.08	0.12	0.16	0.20		***	***	***
	CL	250	500	1000	2000	3000	3500			---	---	3579
24	CL deflection	0.01	0.02	0.05	0.09	0.14	0.17			***	***	***
	UL	200	500	1000	2000	2500			2200	---	---	2684
	UL deflection	0.02	0.06	0.11	0.23	0.280			***	***	***	***
30	CL	250	500	750	1000	2000	2500		2600	---	---	2684
	CL deflection	0.02	0.05	0.07	0.10	0.19	0.24		***	***	***	***
	UL	200	500	750	1000	1250	1500		950	1475	---	1718
36	UL deflection	0.05	0.13	0.19	0.26	0.32	0.39		***	***	***	***
	CL	250	500	750	1000	1500	2000		1480	---	---	2147
	CL deflection	0.04	0.09	0.13	0.17	0.26	0.34		***	***	***	***
42	UL	100	250	500	750	1000	1250		480	730	---	1193
	UL deflection	0.05	0.13	0.26	0.39	0.52	0.64		***	***	***	***
	CL	250	500	750	1000	1500	1750		900	1350	---	1789
48	CL deflection	0.07	0.14	0.21	0.28	0.42	0.490		***	***	***	***
	UL	80	100	150	200	250	300	500	270	410	---	876
	UL deflection	0.07	0.09	0.14	0.19	0.23	0.28	0.47	***	***	***	***
54	CL	100	200	400	750	1000	1200	1500	575	875	---	1534
	CL deflection	0.04	0.09	0.17	0.33	0.43	0.52	0.65	***	***	***	***
	UL	80	100	150	200	250	300	500	160	245	---	671
60	UL deflection	0.12	0.16	0.23	0.31	0.39	0.47	0.78	***	***	***	***
	CL	100	200	400	750	1000	1200		400	600	---	1342
	CL deflection	0.06	0.13	0.25	0.48	0.63	0.761		***	***	***	***
66	UL	80	100	150	200	250	300	500	100	155	---	530
	UL deflection	0.20	0.25	0.37	0.49	0.62	0.74	1.24	***	***	***	***
	CL	100	200	300	500	750	1000		280	430	---	1193
72	CL deflection	0.09	0.18	0.27	0.45	0.67	0.890		***	***	***	***
	UL	80	100	150	200	250	300	400	66	102	---	429
	UL deflection	0.30	0.37	0.56	0.75	0.93	1.12	1.50	***	***	***	***
78	CL	100	150	200	500	750			210	315	---	1074
	CL deflection	0.12	0.18	0.24	0.60	0.91			***	***	***	***
	UL	25	50	100	150	200	300		46	69	---	355
84	UL deflection	0.14	0.27	0.54	0.82	1.09	1.63		***	***	***	***
	CL	100	200	300	500	750			155	240	---	976
	CL deflection	0.16	0.32	0.48	0.80	1.20			***	***	***	***
90	UL	25	50	100	150	200	250		32	50	---	298
	UL deflection	0.19	0.38	0.77	1.15	1.53	1.92		***	***	***	***
	CL	100	200	300	500	750			120	185	---	895
96	CL deflection	0.21	0.41	0.62	1.03	1.55			***	***	***	***

- Notes:
- The above table was derived from the results of full section testing. The ultimate load was derived by using a safety factor of 3 for shear and 2.5 for flexure.
 - All loads are in lbs/ft of panel for point loads and psf for uniform loads.
 - Values are for design selection and are not intended to be exact. Creative Pultrusions recommends selecting Flowgrip® flooring products based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort.
 - Flowgrip® is not intended for fork lift traffic. Consult Creative Pultrusions, Inc. for additional information regarding moving loads.



Flowgrip® Flooring Panels

Technical Information

Part Description:	14% Open Flooring Panel	Shear Modulus of Elasticity = 170,000 psi
Panel Width:	19.685"	Section Modulus (in. ³ /ft) = 1.04
Height:	1.575"	Ultimate Flexural Strength = 33,000 psi
Web Thickness:	.157"	Ultimate Shear Strength = 4,500 psi
Top Plate Thickness:	.197"	Standard Slot Width = .60"
Approx. Weight:	3.1 psf	CL = Concentrated Load
Apparent Modulus of Elasticity:	3.0E6 psi	(lbs per foot width of panel)
Moment of Inertia (in. ⁴ /ft.):	1.03	UL = Uniform Load (lbs/ft ²)

Span Inches	Load Type	Load @								Ultimate Load	
		.25-inch deflection		.38-inch deflection		.25-inch deflection		.38-inch deflection			
18	UL	200	500	1000	2000	3000	4000	4077	---	---	4077
	UL deflection	0.01	0.02	0.05	0.10	0.15	0.19	0.20	***	***	***
	CL	250	500	1000	2000	3000	3058		---	---	3058
	CL deflection	0.01	0.03	0.06	0.11	0.17	0.169		***	***	***
24	UL	200	500	1000	1500	2000	2293		1800	---	2293
	UL deflection	0.03	0.07	0.14	0.21	0.275	0.315		***	***	***
	CL	250	500	750	1000	2000	2293		2150	---	2293
	CL deflection	0.03	0.06	0.09	0.11	0.23	0.26		***	***	***
30	UL	200	500	750	1000	1250	1468		780	1200	1468
	UL deflection	0.06	0.16	0.24	0.32	0.40	0.47		***	***	***
	CL	250	500	750	1000	1500	1835		1200	1835	1835
	CL deflection	0.05	0.10	0.16	0.21	0.31	0.38		***	***	***
36	UL	100	250	400	500	750	1000	1019	400	600	1019
	UL deflection	0.06	0.16	0.25	0.32	0.48	0.64	0.65	***	***	***
	CL	250	500	600	750	1000	1500	1529	710	1100	1529
	CL deflection	0.09	0.17	0.21	0.26	0.35	0.52	0.53	***	***	***
42	UL	80	100	150	200	250	300	500	220	330	749
	UL deflection	0.09	0.12	0.17	0.23	0.29	0.35	0.58	***	***	***
	CL	100	200	400	750	1000	1200	1310	470	700	1310
	CL deflection	0.05	0.11	0.21	0.40	0.54	0.64	0.70	***	***	***
48	UL	80	100	150	200	250	300	500	130	195	573
	UL deflection	0.16	0.19	0.29	0.39	0.49	0.58	0.97	***	***	***
	CL	100	200	400	600	800	1000	1147	315	480	1147
	CL deflection	0.08	0.16	0.31	0.47	0.63	0.79	0.90	***	***	***
54	UL	80	100	150	200	250	300	400	80	122	453
	UL deflection	0.25	0.31	0.46	0.62	0.77	0.93	1.23	***	***	***
	CL	100	200	300	500	750	1000	1019	230	340	1019
	CL deflection	0.11	0.22	0.33	0.55	0.83	1.11	1.13	***	***	***
60	UL	80	100	150	200	250	300	350	53	82	367
	UL deflection	0.37	0.47	0.70	0.93	1.17	1.40	1.63	***	***	***
	CL	100	150	200	500	750	800	917	165	250	917
	CL deflection	0.15	0.23	0.30	0.75	1.13	1.21	1.38	***	***	***
66	UL	25	50	100	150	200	300	303	37	56	303
	UL deflection	0.17	0.34	0.68	1.02	1.36	2.04	2.06	***	***	***
	CL	100	150	200	300	500	600	834	125	190	834
	CL deflection	0.20	0.30	0.40	0.60	1.00	1.20	1.66	***	***	***
72	UL	25	30	50	100	125	150	200	26	40	255
	UL deflection	0.24	0.29	0.48	0.96	1.20	1.44	1.92	***	***	***
	CL	100	150	200	250	400	500	600	98	146	764
	CL deflection	0.26	0.39	0.52	0.64	1.03	1.29	1.55	***	***	***

- Notes:
- The above table was derived from the results of full section testing. The ultimate load was derived by using a safety factor of 3 for shear and 2.5 for flexure.
 - All loads are in lbs/ft of panel for point loads and psf for uniform loads.
 - Values are for design selection and are not intended to be exact. Creative Pultrusions recommends selecting Flowgrip® flooring products based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort.
 - Flowgrip® is not intended for fork lift traffic. Consult Creative Pultrusions, Inc. for additional information regarding moving loads.



Flowgrip® Flooring Panels

Technical Information

Part Description:	Solid Flooring Panel	Shear Modulus of Elasticity = 170,000 psi
Panel Width:	23.62"	Section Modulus (in. ³ /ft) = 1.12
Height:	1.575"	Ultimate Flexural Strength = 33,000 psi
Web Thickness:	.138"	Ultimate Shear Strength = 4,500 psi
Top Plate Thickness:	.158"	
Approx. Weight:	3.0 psf	CL = Concentrated Load
Apparent Modulus of Elasticity:	3.0E6 psi	(lbs per foot width of panel)
Moment of Inertia (in. ⁴ /ft.):	1.18	UL = Uniform Load (lbs/ft ²)

Span Inches	Load Type	Load @ .25-inch deflection							Load @ .38-inch deflection		Ultimate Load
		200	500	1000	2000	3000	4000	4230	---	---	
18	UL	200	500	1000	2000	3000	4000	4230	---	---	4399
	UL deflection	0.01	0.02	0.05	0.09	0.14	0.19	0.20	***	***	***
	CL	250	500	1000	2000	3000			---	---	3299
	CL deflection	0.01	0.03	0.05	0.11	0.16			***	***	***
24	UL	200	500	1000	2000				1955	---	2474
	UL deflection	0.03	0.06	0.13	0.26				***	***	***
	CL	250	500	750	1000	2000			2330	---	2474
	CL deflection	0.03	0.05	0.08	0.11	0.22			***	***	***
30	UL	200	500	750	1000	1250	1500		860	1290	1584
	UL deflection	0.06	0.15	0.22	0.29	0.36	0.44		***	***	***
	CL	250	500	750	1000	1500			1300	1948	1979
	CL deflection	0.05	0.10	0.14	0.19	0.29			***	***	***
36	UL	100	250	500	750	1000	1250		433	649	1100
	UL deflection	0.06	0.14	0.29	0.43	0.58	0.72		***	***	***
	CL	250	500	750	1000	1500			790	1185	1650
	CL deflection	0.08	0.16	0.24	0.32	0.47			***	***	***
42	UL	80	100	150	200	250	300	500	240	360	808
	UL deflection	0.08	0.10	0.16	0.21	0.26	0.31	0.52	***	***	***
	CL	100	200	400	750	1000			515	771	1414
	CL deflection	0.05	0.10	0.19	0.36	0.49			***	***	***
48	UL	80	100	150	200	250	300	500	143	215	619
	UL deflection	0.14	0.17	0.26	0.35	0.44	0.52	0.87	***	***	***
	CL	100	200	400	750	1000			352	528	1237
	CL deflection	0.07	0.14	0.28	0.53	0.71			***	***	***
54	UL	80	100	150	200	250	300	500	90	135	789
	UL deflection	0.22	0.28	0.42	0.55	0.69	0.83	1.38	***	***	***
	CL	100	200	400	750	1000			251	376	1100
	CL deflection	0.10	0.20	0.40	0.75	1.00			***	***	***
60	UL	80	100	150	200	300			60	90	396
	UL deflection	0.33	0.42	0.63	0.84	1.25			***	***	***
	CL	100	150	200	500	750			180	277	990
	CL deflection	0.14	0.20	0.27	0.68	1.01			***	***	***
66	UL	25	50	100	150	200	300		40	62	327
	UL deflection	0.15	0.30	0.61	0.91	1.22	1.83		***	***	***
	CL	100	200	300	500	750			145	210	900
	CL deflection	0.18	0.36	0.54	0.89	1.34			***	***	***
72	UL	25	50	100	150	200	250		30	44	275
	UL deflection	0.21	0.43	0.86	1.29	1.71	2.14		***	***	***
	CL	100	200	300	500	750			110	163	825
	CL deflection	0.23	0.46	0.69	1.15	1.73			***	***	***

- Notes:
1. The above table was derived from the results of full section testing. The ultimate load was derived by using a safety factor of 3 for shear and 2.5 for flexure.
 2. All loads are in lbs/ft of panel for point loads and psf for uniform loads.
 3. Values are for design selection and are not intended to be exact. Creative Pultrusions recommends selecting Flowgrip® flooring products based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort.
 4. Flowgrip® is not intended for fork lift traffic. Consult Creative Pultrusions, Inc. for additional information regarding moving loads.



Flowgrip® Flooring Panels

Technical Information

Part Description: 14% Open Flooring Panel
 Panel Width: 23.62"
 Height: 1.575"
 Web Thickness: .138"
 Top Plate Thickness: .158"
 Approx. Weight: 2.6 psf
 Apparent Modulus of Elasticity: 3.0E6 psi
 Moment of Inertia (in.⁴/ft.): 1.027

Shear Modulus of Elasticity = 170,000 psi
 Section Modulus (in.³/ft) = 1.06
 Ultimate Flexural Strength = 33,000 psi
 Ultimate Shear Strength = 4,500 psi
 Std. Slot Width = .60"
 CL = Concentrated Load
 (lbs per foot width of panel)
 UL = Uniform Load (lbs/ft²)

Span Inches	Load Type	Load @							Ultimate Load		
		.25-inch deflection		.38-inch deflection							
18	UL	200	500	1000	2000	3000	4000		----	4140	
	UL deflection	0.01	0.03	0.05	0.11	0.16	0.21		***	***	
	CL	250	500	1000	2000	3000			----	3105	
	CL deflection	0.01	0.03	0.06	0.12	0.18			***	***	
24	UL	200	500	1000	2000				1955	1770	2329
	UL deflection	0.03	0.07	0.15	0.29				***	***	***
	CL	250	500	750	1000	2000			2112	----	2329
	CL deflection	0.03	0.06	0.09	0.12	0.24			***	***	***
30	UL	200	500	750	1000	1250			860	775	1491
	UL deflection	0.07	0.16	0.25	0.33	0.41			***	***	***
	CL	250	500	750	1000	1500			1170	1755	1863
	CL deflection	0.05	0.11	0.16	0.22	0.32			***	***	***
36	UL	100	250	500	750	1000			433	387	1035
	UL deflection	0.07	0.16	0.33	0.49	0.65			***	***	***
	CL	250	500	750	1000	1500			710	1065	1553
	CL deflection	0.09	0.18	0.27	0.36	0.54			***	***	***
42	UL	80	100	150	200	250	300	500	240	214	760
	UL deflection	0.09	0.12	0.18	0.24	0.30	0.35	0.59	***	***	***
	CL	100	200	400	750	1000	1250		460	690	1331
	CL deflection	0.06	0.11	0.22	0.41	0.55	0.68		***	***	***
48	UL	80	100	150	200	250	300	500	143	128	582
	UL deflection	0.16	0.20	0.30	0.40	0.49	0.59	0.99	***	***	***
	CL	100	200	400	750	1000			315	470	1164
	CL deflection	0.08	0.16	0.32	0.60	0.80			***	***	***
54	UL	80	100	150	200	250	300		90	81	460
	UL deflection	0.25	0.31	0.47	0.63	0.78	0.94		***	***	***
	CL	100	200	400	750	1000			223	335	1035
	CL deflection	0.11	0.23	0.45	0.85	1.13			***	***	***
60	UL	80	100	150	200	300			60	54	373
	UL deflection	0.38	0.47	0.71	0.95	1.42			***	***	***
	CL	100	150	200	500	750			163	247	932
	CL deflection	0.15	0.23	0.31	0.76	1.15			***	***	***
66	UL	25	50	100	150	200	300		40	37	308
	UL deflection	0.17	0.34	0.69	1.03	1.38	2.06		***	***	***
	CL	100	200	300	500	750			125	187	847
	CL deflection	0.20	0.40	0.61	1.01	1.52			***	***	***
72	UL	25	50	100	150	200	250		30	26	259
	UL deflection	0.24	0.49	0.97	1.45	1.94	2.42		***	***	***
	CL	100	200	300	500	750			94	141	776
	CL deflection	0.26	0.52	0.78	1.30	1.96			***	***	***

- Notes:
- The above table was derived from the results of full section testing. The ultimate load was derived by using a safety factor of 3 for shear and 2.5 for flexure.
 - All loads are in lbs/ft of panel for point loads and psf for uniform loads.
 - Values are for design selection and are not intended to be exact. Creative Pultrusions recommends selecting Flowgrip® flooring products based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort.
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