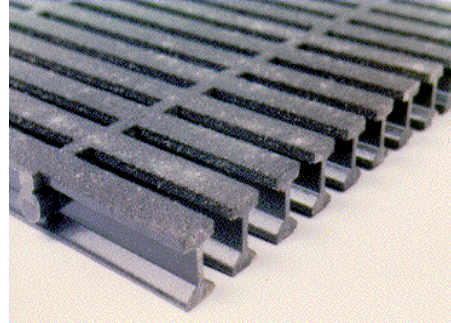
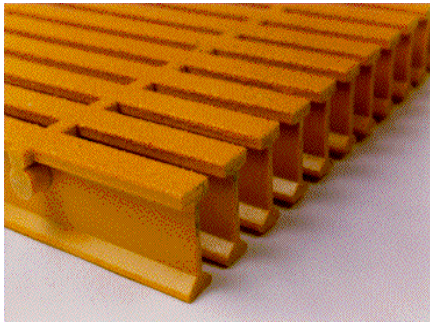


# DATA SHEET

## UltraGrate Pultruded Grating is Cost-Effective



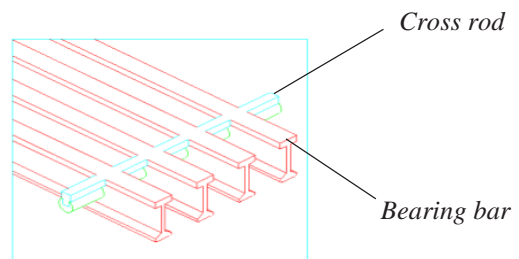
*UltraGrate pultruded grating is constructed using both T-Bar and I-Bar profiles.*

**Fiberglass reinforced plastic pultruded grating is designed and manufactured to provide lasting performance in areas where other materials corrode or decay. It is used for walkways, platforms, and stairs.**

### *Features and Benefits:*

- Corrosion resistant
- Non-conductive
- Lightweight
- Environmentally safe
- Structurally stable
- Low maintenance
- Uses standard installation methods
- Is easy to install
- Costly labor and equipment eliminated
- Electromagnetically transparent

*Standard grating sizes are specified using width (cross-rod dimension) and length/span (bearing bar dimension):*





Liberty Pultrusions – East  
 1575 Lebanon School Rd  
 West Mifflin, PA 15122  
 412-466-8611 Fax: 412-466-8640

For additional information,  
 see reverse side.

## Physical Properties of Pultruded Grating

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>I-Bar</u>	<u>T-Bar</u>
			<u>70-75% Glass</u>	<u>65-70% Glass</u>
Tensile Strength	ASTM D-638	PSI	125,000	100,000
Tensile Modulus	ASTM D-638	PSI	6.0 x 10 <sup>6</sup>	5.6 x 10 <sup>6</sup>
Flexural Strength	ASTM D-790	PSI	125,000	100,000
Flexural Modulus	ASTM D-790	PSI	6.0 x 10 <sup>6</sup>	5.6 x 10 <sup>6</sup>
Compressive Strength	ASTM D-695	PSI	65,000	60,000
Izod Impact Notch	ASTM D-256	Ft.-Lbs./In.	40	40
Barcol Hardness			50 (min.)	50 (min.)
Specific Gravity	ASTM D-792		2	2
Water Absorption	ASTM D-570	Max. %	.3	.3
Flame Retardant	ASTM E-84		Less than 25	Less than 25
Flame Retardant	ASTM D-635		Self-Extinguishing	Self-Extinguishing

<u>Grating Series</u>	<u>Color/Resin Availability</u>			<u>Panel Length</u>	
	<u>Yellow IFR</u>	<u>Gray VFR</u>	<u>Yellow VFR</u>	<u>20 Ft.</u>	<u>24 Ft.</u>
I6010	X	X	X	X	X
I5010	X	X	X	X	X
I4010	X	X	X	X	X
I6015	X	X	X	X	X
I5015	X	X	X	X	X
I4015	X	X	X	X	X
T5020	X	X	X	X	
T3320	X	X	X	X	

- Standard width panels are 3' and 4' wide.
- Call for special size panels and resin systems.
- IFR - Isophthalic Fire Retardant
- VFR - Vinyl ester Fire Retardant
- IFR and VFR Resin Series are Class I Flame Rating 25 or less ASTM E-84 and self extinguishing per ASTM D-635.