



# Acrylit<sup>GC</sup>

Skylight & Sidelight Panels



# Glasteel<sup>TM</sup>

# Quality, commitment and innovation



Glasteel, with more than 45 years of experience, is the second largest manufacturer of Fiberglass Reinforced Panels in the North American Market supported by four state-of-the-art manufacturing plants (all ISO 9002 Certified) and four strategically located distribution centers. Our mission is to offer added value products with the highest quality standards, competitive pricing and best customer service of the industry.

Glasteel manufactures engineered construction solutions for Skylight and Sidelight applications for

all the Metal Building configurations. Our engineered solutions are manufactured under several different resin formulations and/or fiberglass reinforcements according to project requirements. Glasteel, with all the manufacturing and international marketing experience in the Metal Building Industry has developed a new, unique and exclusive panel “AcrylitGC”, which is manufactured with 100% Acrylic resin and Acrylic Gel Coat that provides the best resistance for yellowing and panel deterioration.



# Acrylit<sup>GC</sup>

Skylight & Sidelight Panels



# Glasteel is the only manufacturer in the world that produces this unique panel using a continuous process.



## Special Resin Formulation:

AcrylitGC is the only panel in the world manufactured with 100% Acrylic resin and Acrylic Gel Coat and fiberglass as reinforcement in a continuous process. This exclusive formulation and manufacturing process adds to the panels unique characteristics, such as:

## Minimum Loss of Light Transmission Over the Years:

Due to the Acrylic resin as well as the Acrylic Gel Coat protection, the light transmission values remain very stable over the course of many years. The AcrylitGC warranty includes a maximum loss of 8% of the initial values of light transmission after 10 years. In addition to the light transmission stability, AcrylitGC offers a unique light specification, which is the **Diffusion of Light**, that results in a more uniform natural illumination for the building.

## No Yellowing:

Due to the Acrylic resin in Gel Coat used on this panel, it has a minimum amount of yellowing over the years, which maintains the stability of light transmission and physical specifications.

## Minimum Fiberbloom:

The Gel Coat protection gives the panel the best resistance to Fiberbloom in the industry. AcrylitGC's warranty guarantees no Fiberbloom for 10 years.

## No Delamination:

Due to the continuous process used to manufacture these panels and the integrated Acrylic resin and Gel Coat formulation, AcrylitGC will not suffer delaminating problems, as will other panels offered in the market.

## Excellent Impact Resistance:

AcrylitGC Fiberglass reinforced skylights are unlike traditional Acrylic domes. The fiberglass reinforcement, like our standard and woven roving reinforced products, enables AcrylitGC panels to maintain excellent impact and load characteristics, such as the traditional fiberglass reinforced panels.

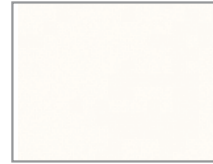


## Physical Properties

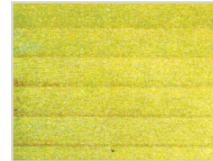
Property	ASTM Std	Chopped Glass Result	Woven Roving Result
Tensile Strength	D638	12,595 psi	25,772 psi
Tensile Modulus	D638	1.02 x 10 <sup>6</sup> psi	1.52 x 10 <sup>6</sup> psi
Flexural Strength	D790	29,151 psi	24,306 psi
Flexural Modulus	D790	0.97 x 10 <sup>6</sup> psi	0.79 x 10 <sup>6</sup> psi
Compressive Strength	D695	23,304 psi	28,905 psi
Compressive Modulus	D695	1.03 x 10 <sup>6</sup> psi	1.5 x 10 <sup>6</sup> psi
Barcol Hardness	D2583	40-50	40-50
% Elongation	D638	1.37%	1.90%
Izod Impact	D256	17.87	18.59
Building Code Class		CC2	CC2
Burning Rate	D635	<2.5 in/min	<2.5 in/min
Smoke Density	E84	105	95
Glass Content	D2584	26% ± 3%	34% ± 3%

## UV Weathering Test

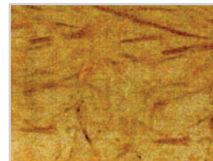
**Acrylit  
After  
1000 Hours**



**Polycarbonate  
After  
1000 Hours**



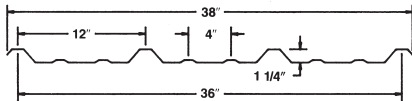
**Polyester  
After  
1000 Hours**



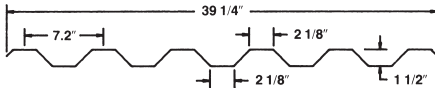
**Do Not Walk on the Panel**

## Dimensional Specifications

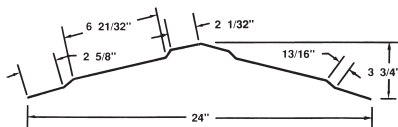
**R  
Panel**



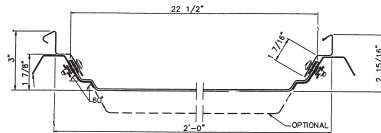
**7.2 x 1 1/2  
Rib**



**Ridgecap**



**Standing  
Seam**



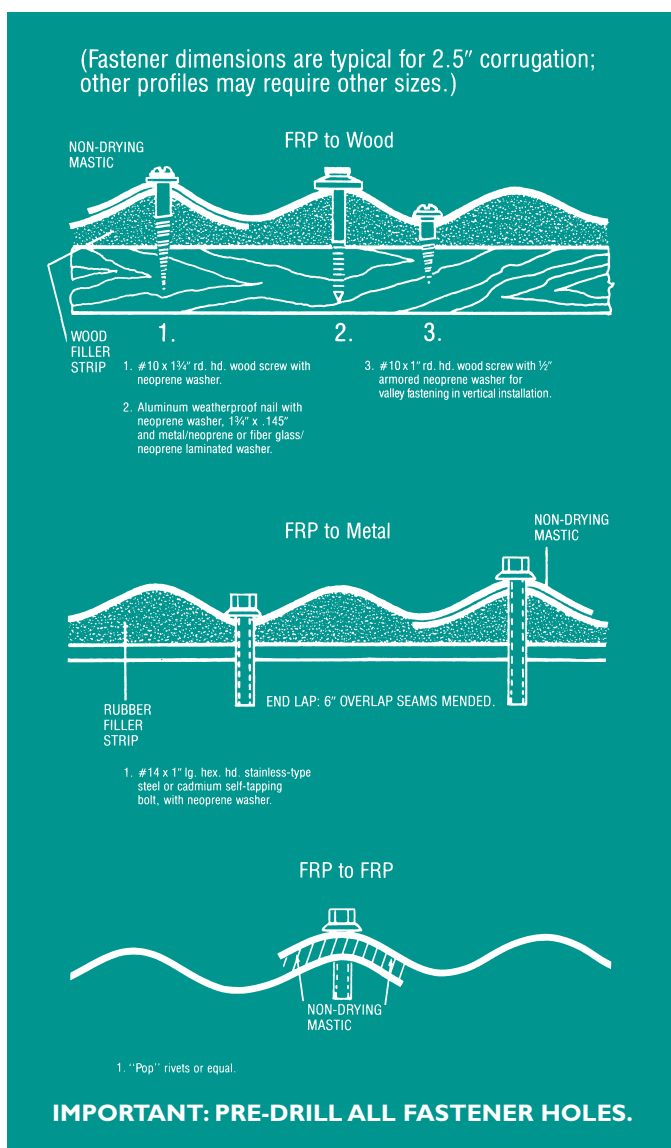
## AcrylitGC R Panel Span and Loading Table (8 oz.)

lbs. per sq. ft.	Chopped Glass	Woven Roving
Roofing 10psf	74"	76"
Roofing 20psf	65"	70"
Roofing 30psf	57"	63"
Roofing 40psf	48"	57"
Roofing 50psf	40"	50"
Roofing 60psf	31"	44"
Siding 10psf	77"	79"
Siding 20psf	71"	74"
Siding 30psf	65"	69"
Siding 40psf	59"	65"
Siding 50psf	53"	60"
Siding 10psf	47"	56"

## Light Transmission Properties

Property	Polycarbonate (Twinwall)	Tedlar	AcrylitGC	Std Polyester FRP
Light Transmission	40 - 50%	50 - 55%	50 - 55%	55 - 60%
Light Diffusion (% Haze)	N/A	25 - 30%	90 - 95%	25 - 30%
Yellowing Index (1000 Hrs QUV) ASTM D-1925	1.96	N/A	0.24	3.98

\*The normal light transmission factor shall have a tolerance of  $\pm 5\%$  when tested in accordance to ASTM D-1494.



## Installation Instructions

**Cutting:** Panels can be cut using power or hand saws. Saw blades should be fine-toothed carbide tipped or safety fabric reinforced abrasive disc. Face shields and appropriate safety equipment should be worn by all operators. Some typical installation details are shown at the left.

**Drilling:** All panels should be pre-drilled not less than 1-1/2" from the panel end, and the holes drilled a minimum of 1/16" larger than the fastener diameter. Panels can be drilled singly or several at a time.

**Fasteners:** When possible, fasteners should be installed at high points of the corrugation with spacings of 6" to 8" on center at panel ends, and 12" to 16" on center for intermediate purlins and siding applications.

**Installation:** UNDER NO CIRCUMSTANCES SHOULD PANELS BE ALLOWED TO SUPPORT UNDISTRIBUTED LOADS SUCH AS THE WEIGHT OF A HUMAN BODY. USE ONLY APPROVED ROOF LADDERS FOR INSTALLATION.



- ISO 9002: All Glasteel plants are ISO 9002 Certified
- ASTM D3841: Standard Specification for Glass Fiber Panels
- UL#R5214 Recognized Component Manufacturer
- ICC ER-2364

Since Seller exercises no control over Buyer's application or use of the product manufactured by seller ("products") may vary, it is understood that:

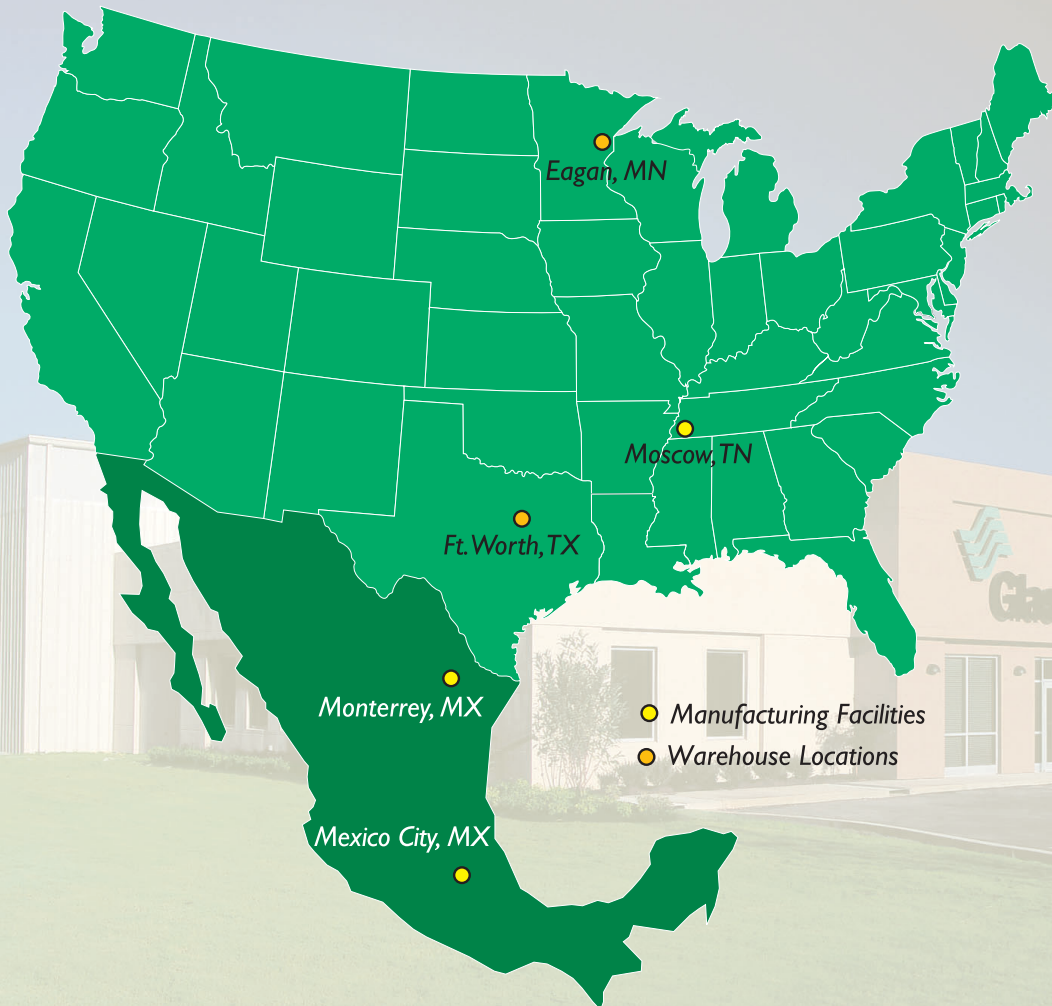
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# Glasteel™



- Manufacturing Facilities
- Warehouse Locations

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Ft. Worth, TX 76111  
817-831-0505  
Fax: 817-831-2001

1279 Corporate Center Dr.  
Eagan, MN 55121  
651-452-0150  
Fax: 651-452-0376