



**Glasbord® Embossed Wall Panels | PIF**

**Class C Fire-Rating per ASTM E-84**

**Product**

Glasbord with Surfaseal is made of fiberglass reinforced plastic. Glasbord is a durable, flexible building material and will not mold, mildew, rot or corrode. It exhibits excellent resistance to mild chemicals and moisture. The panel has a Class C rating for flame spread and smoke development when tested per ASTM E-84.

**Purpose**

Glasbord with Surfaseal embossed panels are designed for interior wall finishes where a Class C, sanitary, easy-to-clean panel is desired.

**Surfaseal® Finish**

Surfaseal is a unique surface treatment that, when compared to ordinary FRP, exhibits up to ten times cleanability, six times the stain resistance and twice the abrasion resistance.

**Table One: Physical Properties**

Property	Typical Values		Test Method
	PIF		
Flexural Strength	8.5 x 10 <sup>3</sup> psi	59 MPa	ASTM - D790
Flexural Modulus	0.35x 10 <sup>6</sup> psi	2413 MPa	ASTM - D790
Tensile Strength	5 x 10 <sup>3</sup> psi	34 Mpa	ASTM - D638
Tensile Modulus	0.6 x 10 <sup>6</sup> psi	4137 MPa	ASTM - D638
Barcol Hardness	35	35	ASTM - D2583
Izod Impact	6.0 ft-lb/in notched	0.32 J/mm	ASTM - D256
Coefficient of Linear Thermal Expansion	1.6 x 10 <sup>-5</sup> in/in/°F	29 µm/m/°C	ASTM - D696
Gardner Impact Strength	30 in-lb	3.4 J	ASTM - D3029
Water Absorption	0.16%/24hrs@77°F	0.16%/24hrs@25°C	ASTM - D570
R Value	0.23 hr•ft <sup>2</sup> •°F/BTU	0.047 hr•m <sup>2</sup> •°C/kcal	ASTM - C114
Surface Burning Characteristics	Class C	Class C	ASTM - E84
Taber Abrasion Resistance (cs-17 wheels, 1000g. Wt, 25 cycles)	0.01%Max Wt. Loss	0.01%Max Wt. Loss	Taber Test

**Table Two: Physical Properties**

Product Code	Nominal Thickness	Finish	Color	Available Sizes
PIF	0.09" 2.3 mm	Embossed	White   85 Beige   70 Ivory   84	4' x 8'   4' x 9'   4' x 10'   4' x 12' 1.2 m x 2.4 m   1.2 m x 2.7 m   1.2 m x 3.0 m   1.2 m x 3.7 m
FTSTF			Colonial White   83 Pearl Gray   48 Silver   66 Black   1201 *	

Additional lengths, widths and colors available by quotation. 12,000 sq. ft. per product, weight and colors required to manufacture. Orders from different customers may be batched to obtain manufacturing minimums, however lead time may be affected.

\* Black 1201 is Class C FTSTF, please refer to Technical Data #2501 for properties

## SPECIFICATIONS

Crane Composites panels are manufactured by a continuous laminating process in lengths as required.

## COMPOSITION

Reinforcement: Random chopped fiberglass.

Resin Mix: Modified polyester copolymer and inorganic fillers and pigments.

## FINISHED PANEL QUALITY

1. Panels shall have a wear side with a pebble-like embossed finish. Color shall be uniform throughout, as specified. The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
2. Physical properties shall be as set forth in Table 1.
3. Dimensions shall be as specified on purchase order, subject to the following tolerances:  
**Width:**  $\pm 1/8''$  ( $\pm 3.2$  mm)  
**Length:**  $\pm 1/8''$  ( $\pm 3.2$  mm) up to 12' (3.7 m)  
**Squareness:**  $\pm 1/8''$  (3.2 mm) in 48" (1.2 m) of width
4. Product quality standards and tolerances for panel weight and thickness shall be as set forth in Crane Composites' Quality Control Procedures/Standards which are available on request.
5. Panels shall be installed in accordance with manufacturer's guidelines as set forth in the Crane Composites Installation Guide (Form #6876).

## CERTIFICATIONS

1. Meets USDA/FSIS requirements
2. Meets FMVSS 302 Requirements
3. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274)
4. Meets minimum requirements of major model building codes for Class C interior wall and ceiling finishes of flame spread  $\leq$  200, smoke developed 450 or less (per ASTM E-84)
5. Crane Composites certifies that Glasbord (PIF) meets the requirements of ASTM D5319.  
Classification Class C - Flame spread 76 to 200, smoke development index of 450 or less per ASTM E 84.  
Grade 6: 0.081 to 0.099 n. (2.06 to 2.51mm); 0.090 in. nominal (2.29mm).  
Tolerances: Width and Length: + .125 in (3.175mm) up to and including 12 ft.  
Squareness: + .125 in (3.175mm)  
Thickness: + 10% Camber: + .25 in (6.35mm)
6. Product identified by 1 gray thread on the back.

## FABRICATING RECOMMENDATIONS

**Note:** Protect your eyes with goggles; cover your nose and mouth with a filter mask; cover exposed skin when cutting CCI panels.

**Hand Fabricating:** Drilling—High speed drill bit (60° cutting angle, with 12°-15° clearance) or hole saw.

**Cutting:** Sheet metal shears or circular saw with reinforced carbondum or carbide-tipped blade.

**Production Fabricating:** Use carbide-tipped tools. Straight cuts can be sheared (90° cutting edge with 0.002" [0.05 mm] clearance) or sawed. For irregular cuts, use die punch or band saw.

**Cleaning Instructions:** Available from CCI.

## FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS

The numerical flame spread and smoke development ratings are not intended to reflect alleged hazards presented by Crane Composites products under actual fire conditions and this product has not been tested by Crane Composites except as set forth below. These ratings are determined by small-scale tests conducted by Underwriters Laboratories and other independent testing facilities using the American Society for Testing and Materials E-84 test standard (commonly referred to as the "Tunnel Test").

CRANE COMPOSITES PROVIDES THESE RATINGS FOR MATERIAL COMPARISON PURPOSES ONLY. Like other organic building materials (e.g. wood), panels made of fiberglass reinforced plastic resins will burn. When ignited, FRP may produce dense smoke very rapidly. All smoke is toxic. Fire safety requires proper design of facilities and fire suppression systems, as well as precautions during construction and occupancy. Local codes, insurance requirements and any special needs of the product user will determine the correct fire-rated interior finish and fire suppression system necessary for a specific installation. We believe all information given is accurate, without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending a license under valid patents. [www.astm.org/Standards/E84.htm](http://www.astm.org/Standards/E84.htm).

## STORAGE

All Crane Composites FRP products should be stored indoors.

## SERVICEABLE TEMPERATURE RANGE

Panels will perform in temperatures from -40°F (-40°C) to 150°F (66°C). For use in environments beyond this range contact Crane Composites for recommendations.

## LIMITATIONS

**Near Heat Source:** Crane Composites panels may discolor when installed behind or near any heat source which radiates temperatures exceeding 130°F (55°C), such as cookers, ovens, and deep fryers.

**Uneven Surface:** Installation over uneven concrete block walls may result in areas of delamination and bulging.

## CRANE COMPOSITES TESTING

**Cleanability Test:** When Glasbord with Surfaseal and an ordinary FRP panel are heavily soiled, the Glasbord panel exhibits up to 10 times more cleanability per MacBeth Computer Colorimeter.

**Stain Resistance Test:** Prolonged direct contact to concentrated ammonia-based cleaner exhibited no color change per MacBeth Color Colorimeter.



## NOTICE

Panels will provide a clean, aesthetically-pleasing finished installation. However, by nature, fiberglass reinforced plastic paneling may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation. If any portion of material does not provide an acceptable appearance, Crane Composites should be notified at once. Upon verification of unacceptability, that portion of material will be replaced by Crane Composites. Crane Composites' sole responsibility is for the replacement of defective materials but not for labor or other handling or installation expenses.

[www.FRP.com](http://www.FRP.com) | 1.800.435.0080 | 1.815.467.8666 (fax) | [salesbp@cranecomposites.com](mailto:salesbp@cranecomposites.com)

Crane Composites is the manufacturer of Glasbord, Sequentia, Sanigrad II and a variety of other fiberglass reinforced plastic (FRP) composite wall panels. Inspired by the Kemlite tradition, Crane Composites has over 55 years of experience in Commercial Building Products and is a recognized industry leader in FRP applications.



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