



Innovative Finishes Wall Panels | STC, SSTC, LBCLN, FTBB

Class C Fire-Rating per ASTM E-84

Product

The Innovative Finishes line combines the traditional benefits of fiberglass reinforced plastic with linen and sandstone textures and tile-look and beaded finishes to provide a panel with presence and style that performs. 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

Innovative Finishes panels are designed for interior wall finishes where a Class C, sanitary, easy-to-clean panel is desired.

Table One: Physical Properties

Typical Values			
Property	STC SSTC LBCLN	FTBB	Test Method
Flexural Strength	15 x 10 ³ psi 103 MPa	14 x 10 ³ psi 97 MPa	ASTM - D790
Flexural Modulus	0.5 x 10 ⁶ psi 3447 MPa	0.4 x 10 ⁶ psi 2758 MPa	ASTM - D790
Tensile Strength	8 x 10 ³ psi 55 MPa	6 x 10 ³ psi 41 MPa	ASTM - D638
Tensile Modulus	0.6 x 10 ⁶ psi 4137 MPa	0.6 x 10 ⁶ psi 4137 MPa	ASTM - D638
Barcol Hardness	40	40	ASTM - D2583
Izod Impact	5.0 ft-lb/in notched 0.27 J/mm	4.0 ft-lb/in notched 0.21 J/mm	ASTM - D256
Coefficient of Linear Thermal Expansion	0.20 x 10 ⁻⁵ in/in/°F 36 µm/m/°C	0.20 x 10 ⁻⁵ in/in/°F 36 µm/m/°C	ASTM - D696
Water Absorption	0.16%/24hrs@77°F 25°C	0.16%/24hrs@77°F 25°C	ASTM - D570
Surface Burning Characteristics	Class C	Class C	ASTM - E84
Taber Abrasion Resistance (cs-17 wheels, 1000g. Wt, 25 cycles)	0.015%Max Wt. Loss	0.015%Max Wt. Loss	Taber Test

Table Two: Physical Properties

Product Code	Nominal Thickness	Finish	Color	Available Sizes
STC	0.09" 2.3 mm	Sandstone	Morning Mist Gray 636 Fawn Brown 809 Almond Breeze 866 Cotton White 1130 Willow Green 205	4' x 8' 4' x 10' 1.2 m x 2.4 m 1.2 m x 3.0 m Call for stocking information
SSTC		Sandstone Scored in 2", 3", 4", 6", 8", and 12" square tiles	Red 731 Blue 318 Daisy Gold 111	
LBCLN		Linen	Morning Mist Gray 636 Fawn Brown 809 Almond Breeze 866 Cotton White 1130 Willow Green 205	
FTBB	0.075" 1.9 mm	Beaded	Cotton White 1130	

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.

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 consistent pattern. 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: $\pm 1/8"$ (± 3.2 mm)
Length: $\pm 1/8"$ (± 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 ≤ 200 , smoke developed 450 or less (per ASTM E-84)
5. Crane Composites certifies that Innovative Finishes (STC, SSTC, LBCLN, FTBB) 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)

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 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.

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.

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.

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.

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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.



CRANE Composites

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