



Embossed Wall and Ceiling Panel 20% Recycled Content | PI20

Class C Fire-Rating per ASTM E-84

Product

Crane Composites PI20 FRP panels are made of fiberglass reinforced plastic. PI20 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.

Panel contains a minimum of 20% post-industrial/pre-consumer recycled content by weight.

Purpose

PI20 embossed 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	RC20 0.09"	Test Method
Flexural Strength	9 x 10 ³ psi 62 MPa	ASTM - D790
Flexural Modulus	0.4 x 10 ⁶ psi 2758 Mpa	ASTM - D790
Tensile Strength	5 x 10 ³ psi 34 MPa	ASTM - D638
Tensile Modulus	0.7 x 10 ⁶ psi 4826 MPa	ASTM - D638
Barcol Hardness	40	ASTM - D2583
Izod Impact	3.0 ft-lb/in notched 0.16 J/mm	ASTM - D256
Coefficient of Linear Thermal Expansion	0.7 x 10 ⁻⁵ in/in/°F	ASTM - D696
Water Absorption	0.4%/24 hrs @ 77 °F (25 °C)	ASTM - D570
Surface Burning Characteristics	Class C	ASTM - E84

Table Two: Physical Properties

Product Code	Nominal Thickness	Finish	Color	Available Sizes
PI20 (RCC)	0.09" 2.3 mm	Embossed	1130 White 114 Almond	4' x 8' 4' x 10' 1.2 m x 2.4 m 1.2 m x 3.0 m

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: $\pm 1/8"$ (± 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
3. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274)
3. 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)
4. This panel has earned GREENGUARD® Children & Schools and GREENGUARD® Indoor Air Quality Certification. (Certificate # 90154-03) www.greenguard.org

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.

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.

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.

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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.



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