



Smooth Standard Flat Panel | SSF

PRODUCT

Crane Composites' Standard Flat Panel is a general purpose panel made of fiberglass reinforced plastic. It is a durable, flexible material that will not mold, mildew, rot or corrode. It exhibits excellent resistance to mild chemicals and moisture. The Standard Flat Panel does not have a Fire Rating and has not been tested to ASTM E-84. Prototyping and testing is required by the customer prior to use of this panel. The panel has a cosmetically pleasing finish A side. The B side is not inspected nor does it have any cosmetic specifications. Use of the B size is at risk of user.

PURPOSE

The Standard Flat Panel is designed to be used in place of traditional materials such as aluminum and plywood. If used as a component of a laminated system, 100% adhesive coverage is required.

Table One: Physical Properties

Typical Values		
Property	SSF 0.09"	Test Method
Flexural Strength	14 x 10 ³ psi 97 MPa	ASTM - D790
Flexural Modulus	0.6 x 10 ⁶ psi 4137 MPa	ASTM - D790
Tensile Strength	7 x 10 ³ psi 48 MPa	ASTM - D638
Tensile Modulus	0.7 x 10 ⁶ psi 4,826 MPa	ASTM - D638
Barcol Hardness	40	ASTM - D2583
Izod Impact	5.0 ft-lb/in notched 0.27 J/mm	ASTM - D256
Coefficient of Linear Thermal Expansion	0.2 x 10 ⁻⁵ in/in/°F 36 µm/m/°C	ASTM - D696
Water Absorption	0.16%/24hrs@77°F 25°C	ASTM - D570

Table Two: Design

Product Code	Nominal Thickness	Weight	Finish	Color	Available Sizes
SSF	0.9" 2.29 mm	0.7 lbs/ft ²	Smooth	Cotton White 1130	Manufactured to order*

*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 smooth 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

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 carborundum 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.

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.

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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