

FILON® EMBOSSED DOOR SKIN

DOOR SKIN PANELS
PRODUCT CODE: DSC

REV. 10 | 06/18

PRODUCT

Class C Door Skin fiberglass reinforced composite panels are made from high quality thermoset polyester resins with U.V. inhibitors. The surface is textured, aesthetically pleasing, and free of wrinkles and other defects. Panels are suitable for use as a permanent exterior that may be exposed to the elements in a wide variety of climates.

DESIGN PROPERTIES						
PRODUCT CODE	NOMINAL THICKNESS	NOMINAL WEIGHT	FINISH	MAXIMUM LENGTH	WIDTH	Color
DSC	0.037" 0.9 mm	0.184lb/ft ² 0.9 kg/m ²	Embossed	Up to 50' 16.7 m	18" - 96" 0.45 mm - 2.44 mm	White 441 Almond 876 Off White 462 Phillips White 441P Snow White 493 Ford White 8042 Designer Beige 886U

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	DSC	TEST METHOD
FLEXURAL STRENGTH	10 x 10 ³ psi 69 MPa	ASTM - D790
FLEXURAL MODULUS	0.25 x 10 ³ psi 1724 MPa	ASTM - D790
TENSILE STRENGTH	5 x 10 ³ psi 34 MPa	ASTM - D638
TENSILE MODULUS	.49 x 10 ⁶ psi 3378 MPa	ASTM - D638
BARCOL HARDNESS	30	ASTM - D2583
IZOD IMPACT	1.6 ft-lb/in notched 0.09 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.7 x 10 ⁻⁵ in/in/°F 31 μm/m/°C	ASTM - D696
WATER ABSORPTION	0.3%/24hrs@77°F 25°C	ASTM - D570
CONDUCTIVITY (K Factor)	1.2 BTU•in/hr/ft ² /°F 14.9 kcal•cr/hr/m ² /°C	ASTM - C177





SPECIFICATIONS

Crane Composites panels are manufactured in lengths and widths as required.

COMPOSITION

Reinforcement: Random chopped fiberglass roving.
Resin Mix: Modified polyester resin and inorganic fillers and pigments.

FINISHED PANEL QUALITY

Panels shall have smooth finish on the front side. Color shall be uniform throughout. Backside imperfections which do not affect functional properties are not cause for rejection.

Physical properties shall be as set forth in Table 1.

Dimensions shall be as specified on purchase order, subject to the following tolerances:

WIDTH:	±1/8" (±3.2 mm)
LENGTH:	±1/8" (±3.2 mm) up to 8' (2.4 m) ±1/4" (±6.4 mm) up to 40' (12.2 m)
SQUARENESS:	1/8" (3.2 mm) in 48" (1.2 m) of width

Disclaimer: Crane Composites, Inc. (called CCI hereafter) does not make any claims to the combustibility rating of the products listed on this data sheet. Not intended for interior applications.

CERTIFICATIONS

Meets requirements of the major model building codes for Class C interior wall finishes as tested under ASTM E-84.

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.

STAPLING: Standard pneumatic stapler.

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.

PAINTING PREPARATION: To properly prepare the panel surface for painting, make sure the surface is clean, dry, and free from all oils, grease, silicones, dust, and other contaminants. Alkaline detergents or clean water may be used for this purpose. Sanding or roughening of the panel surface is recommended to achieve acceptable paint adhesion, using 600 grit or finer sand paper or a 3M "Ultrafine" Scotch-Brite® pad.

RV Cleaning Instructions: Available from CCI.

SDS: Prior to working with our products, see our most current SDS at cranecomposites.com/sds.html

PLEASE NOTE THE FOLLOWING PRODUCT USE INFORMATION:

Products manufactured by CCI will provide a clean, aesthetically pleasing finished installation. However, by nature, fiberglass reinforced plastic panels may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation or lamination and original CCI skid tag/ticket number removed and retained. If any portion of material will not provide an acceptable appearance, CCI should be notified at once. Please report the non-conforming product utilizing the retained skid tag/ticket number. Upon verification of unacceptability, CCI will replace or refund the purchase price of the non-conforming product.

This product has not been tested under ASTM E-84 for use in building interiors.

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 has over 60 years of experience and is the recognized industry leader in frp applications. Crane Composites is headquartered in Channahon, IL and all our products are manufactured in the United States.

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6741 | REV. 10 | 06.18 (8353)

STORAGE REQUIREMENTS

Crane Composites panels are designed for peak performance prior to and after the panels have been applied. Careful handling during the manufacturing process is important. Avoid excessive clamping, dropping and scraping. Keep contents dry. Store indoors in a well ventilated area.

LAMINATION

CCI recommends that the moisture content of the substrate be no greater than 12% at the time of lamination and that the glue coverage between the Crane Composites panel and the substrate be 100% coverage at the weight and thickness recommended by the adhesive manufacturer. Approved substrates include lauan plywood, Azdel, SymalITE and Fortis. Use of any substrate must be pre-approved by Crane Composites to be covered under warranty. Prior to lamination the frp panel must be free of dust, moisture, particulates or backside contaminants to ensure 100% bond. The quality of the substrate surface must also be free of dust or particulates prior to lamination. CCI will not be responsible for any loss resulting from sub-standard lamination processes.

Laminating to substrates such as layered paper-based products will void warranty.

After lamination, the substrate must not be subjected to water intrusion or leakage as this may cause delamination and/or gel coat blistering, which will not be covered by under warranty.

SIDEWALL CONSTRUCTION WITHOUT SUBSTRATES

CCI should be consulted before specifying and installing any substrate-free product.

MINIMUM BEND RADIUS

CCI recommends all radius bends be supported by a solid substrate and not exceed the minimum bend radius specified on the product technical data sheet.

DARK COLORS

Dark colors, whether gel-coated or painted, will affect panel performance. Dark colored panels should be tested for performance under all appropriate conditions to make sure such colors will meet the requirements of the application. Dark colors may cause excessive heat build-up on the panel resulting in possible sidewall rippling, delamination, cracking, or decal failure.

To be covered under warranty, dark colors must be pre-approved by CCI.

APPLYING & PAINT FINISHES

Be aware that the application of certain paint or decal film colors, normally those with a darker appearance, may cause excessive heat build-up on the panel resulting in possible sidewall rippling, delamination, or cracking. Dark colored panels should be tested under all appropriate conditions to make sure such colors will meet the requirements of the application. The use of a heat gun to apply or remove decals is not recommended as it will cause cracking of the gel-coat finish and will void this warranty. To be covered under warranty dark colors must be pre-approved by CCI.

COLOR CHANGE

All products, when exposed to weathering and sunlight, change color over time as part of the aging process.

CRANE

Composites