DESIGNS wall panels

PRODUCT CODE: IPSA + IPSC + IPCN

CLASS A + C FIRE RATING PER ASTM E-84 + CAN/ULC-S102-10 TESTED

PRODUCT

The DESIGNS fiberglass reinforced plastic (FRP) panel with a unique, decorative image 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 is available in a Class A or Class C fire rating per ASTM E-84 or a panel tested per CAN/ULC-S102-M for use in Canada.

PURPOSE

DESIGNS wall panels are designed for INTERIOR USE ONLY where a sanitary, easy-to-clean panel is desired. The decorative image enhances any area where the features and benefits of an FRP panel are required but a more cosmetically appealing finish is desired.

NOTE

Due to the specialty custom nature of the DESIGNS production process, color variance from lot to lot production will occur. Panels will not be the exact same color from run to run. ORDER ENOUGH PANELS TO COMPLETE A ROOM INSTALLATION.

DESIGN PROPERTIES

PRODUCT CODE	FIRE RATING	NOMINAL THICKNESS	AVAILABLE PATTERNS			AVAILABLE SIZES
IPSA	Class A	0.075" 1.9 mm	**CLASSICS COLLECTION** Sierra Ash | 010SA Maryland Maple | 009MM Washington Wood | 008WW True Terrazzo | 005TZ Corn Silk Canvas | 008C Chrome Canvas | 011C Cactus Canvas | 009C Sculptured Stone | 007SS Caramel Crosshatch | 013CH Piri Blue Stripe | 023PBS Baton Rouge Bamboo | 001BRB Carolina Cherry | 002CC Tennessee Timber | 003TT Colonial Canvas | 012C Camel Canvas | 010C Coastal Canvas | 007C Scattered Stone | 004SS Maui Marble | 006MM Brushed Metal | 025BM Graystone | 024GS	**HEARTLAND COLLECTION** Shelby | 50HC Dwight | 51HC Davey | 52HC Guss | 53HC Essex | 54 HC Waukon | 55HC Conrad | 56HC Colby | 57HC **RUNWAY COLLECTION** Ginza | 70RC d'Oro | 71RC Avenues | 72RC Garment | 73RC Oxford | 74RC Palermo | 75RC Gracia | 76RC Champs | 77RC **CITY WORKS COLLECTION** Burlington | 90CW LaSalle | 91CW Staten | 92CW Skyway | 93CW Union | 94CW Colfax | 95CW Westpark | 96CW Sumner | 97CW Franklin | 98CW Mover | 99CW	**PATHWAYS COLLECTION** Signals | 01PW Reflect | 02PW Line | 03PW Cell | 04PW Stream | 05PW Beam | 06PW Social | 07PW Link | 08PW Currents | 09PW Wave | 10PW Connect | 11PW Footprint | 12PW **DESIGNS CUSTOM**	4' x 8' 1.2 m x 2.4 m 4' x 10' 1.2 m x 3.0 m
IPSC	Class C	0.075" 1.9 mm	**FOREST COLLECTION** Sabine | 30W Pike | 31W Sequoia | 32W Arapaho | 33W Payette | 34W Ocala | 35W Sawtooth | 36W			
IPCN	CAN/ULC -S102	0.075" 1.9 mm				

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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	IPSA	IPSC	IPCN	TEST METHOD
FLEXURAL STRENGTH	10×10^3 psi | 69 MPa	8×10^3 psi | 55 MPa	10×10^3 psi | 69 MPa	ASTM - D790
FLEXURAL MODULUS	0.25×10^6 psi | 1724 MPa	0.2×10^6 psi | 1379 MPa	0.25×10^6 psi | 1724 MPa	ASTM - D790
TENSILE STRENGTH	6×10^3 psi | 41 MPa	7×10^3 psi | 48 MPa	6×10^3 psi | 41 MPa	ASTM - D638
TENSILE MODULUS	0.4×10^6 psi | 2758 MPa	0.9×10^6 psi | 6205 MPa	0.7×10^6 psi | 4826 MPa	ASTM - D638
BARCOL HARDNESS	25	25	25	ASTM - D2583
IZOD IMPACT	5.0 ft-lb/in notched | 0.27 J/mm	4.0 ft-lb/in notched | 0.21 J/mm	5.0 ft-lb/in notched | 0.27 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	2×10^{-5} 10/10/°F | 36 µm/m/°C	2×10^{-5} 10/10/°F | 36 µm/m/°C	N/A	ASTM - D696
SURFACE BURNING CHARACTERISTICS	Class A	Class C	CAN/ULC-S102	ASTM - E84 and S102

SPECIFICATIONS

Crane Composites, Inc. (CCI) panels are manufactured by a continuous laminating process in lengths as required.

COMPOSITION

Reinforcement: Random chopped fiberglass.
Resin Mix: Polyester/styrene copolymer, 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. The backside surface may have some variations which do not affect functional properties and are not cause for rejection.
2. Physical properties shall be as set forth on Page 1.
3. 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 12′ (3.7 m)
   SQUARENESS: ±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. Some products have been tested and meet the requirements FMVSS 302. For a list products that have been tested to this requirement, see our test reports on our website at www.cranecomposites.com/testreports.html
3. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274).
4. DESIGNS IPSA: Meets minimum requirements of major model building codes for Class A interior wall and ceiling finishes of flame spread ≤ 25, smoke developed ≤450 (per ASTM E-84).
5. DESIGNS IPCN: Meets minimum requirements of major model building codes for Class C interior wall and ceiling finishes of flame spread ≤ 200, smoke developed ≤450 (per ASTM E-84).
6. DESIGNS IPCN: Meeting certification requirements for CAN/ULC-S102.
7. This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #16350-410) greenguard.org.

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.

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

STORAGE REQUIREMENTS

All Crane Composites FRP products should be stored indoors.

SERVICEABLE TEMPERATURE RANGE

Panels will perform in temperatures from -40°F (-40°C) to 130°F (55°C). For use in environments beyond this range contact Crane Composites for recommendations.

LIMITATIONS

Near Heat Source: Crane Composites panels will discolor when installed behind or near any heat source which radiates temperatures exceeding 130°F (55°C), such as cookers, ovens, and deep fryers. Do not install near a heat source.

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.

RELATED INFORMATION

For scratch touch ups see document #7507

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