PRODUCT CODE: FMMS



GLASBORD® smooth panels

CLASS A FIRE RATING PER ASTM E-84

PRODUCT

Smooth Fire Rated FMMS Glasbord with Surfaseal is made of fiberglass reinforced plastic. It 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 A fire rating as tested per ASTM E-84.

SURFASEAL FINISH

Surfaseal is a unique surface treatment that, when compared to ordinary FRP, exhibits up to ten times cleanability, six times the stain resistance and twice the abrasion resistance.

PURPOSE

Smooth Fire Rated FMMS Glasbord with Surfaseal panels are designed for interior wall finishes where a Class A, sanitary, easy-to-clean panel is desired. Smooth panels will withstand moderate abuse.

NOTES

Due to the nature of the manufacturing process, this product has a unique smooth texture. Prior to ordering, please order a sample to verify this product meets project needs. For better abrasion resistance, embossed panels are recommended.

DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	FINISH	COLOR	AVAILABLE SIZES
FMMS	0.075" 1.9 mm	Smooth	White 85	4' x 8' 4' x 10' 1.2 m x 2.4 m 1.2 m x 3.0 m Coils available up to 500'

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	FMMS	TEST METHOD
FLEXURAL STRENGTH	17 x 10 ³ psi 117 MPa	ASTM - D790
FLEXURAL MODULUS	1.1 x 10 ⁶ psi 7584 MPa	ASTM - D790
TENSILE STRENGTH	8 x 10° psi 55 MPa	ASTM - D638
TENSILE MODULUS	1.4 x 10 ⁶ psi 9653 MPa	ASTM - D638
BARCOL HARDNESS	45	ASTM - D2583
IZOD IMPACT	15.5 ft-lb/in notched 0.83 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.7 x 10 ⁻⁵ in/in/°F 31 μm/m/°C	ASTM - D696
GARDNER IMPACT STRENGTH	30 in-lb 3.4 J	ASTM - D3029
WATER ABSORPTION	0.20%/24hrs @77°F 25°C	ASTM - D570
R VALUE	0.19 hr•ft2•°F/Btu 0.039 hr•m2•°C/kcal	ASTM - C1114
SURFACE BURNING CHARACTERISTICS	Class A	ASTM - E84

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.
- Physical properties shall be as set forth on Page 1.
- 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

- 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. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274).
- 3. 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
- HACCP Certified. Glasbord panels are suitable for use in food and beverage facilities that operate in accordance with a HACCP based Food Safety Program
- This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #15955-410) greenguard.org.

STORAGE REQUIREMENTS

All Crane Composites FRP products should be stored indoors.

FABRICATING RECOMMENDATIONS

NOTE: Protect your eyes with goggles; cover your nose and mouth with a filter mask; cover exposed skin when cutting CCI

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

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.

CRANE COMPOSITES TESTING

CLEANABILITY TEST: When Glasbord with Surfaseal and an ordinary FRP panel are heavily soiled, the Glasbord panel exhibits up to 10 times more cleanability per MacBeth Computer Colorimeter.

Stain Resistance Test: Prolonged direct contact to concentrated ammonia-based cleaner exhibited no color change per MacBeth Color Colorimeter.

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").

GREENGUARD

GOLD

CRANÉ 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.

A global leading provider of resilient wall and ceiling coverings. Kemlite® was established in 1954 and the company changed names to Crane Composites in 2007. Crane Composites is headquartered in Channahon, IL and all our products are manufactured in the United States. We work with hundreds of distributors, ensuring our products are easily accessible and readily available to our customers.

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