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**FIBERGLASS REINFORCED PANELS (FRP)**

**PART 1 - GENERAL**

**1.1 PURPOSE**

- A. This guideline is intended to provide useful information to the Professional Service Provider (PSP) to establish a basis of design. PSP is to apply the principles of this section such that the University of Texas at Arlington (UTA) may achieve a level of quality and consistency in the design and construction of their facilities. Deviations from these guidelines must be approved by UTA and may require justification through Life Cycle Cost (LCC) analysis and submitted to UTA for approval.

**1.2 LESSONS LEARNED AND DESIGN CONSIDERATIONS**

- A. X

**1.3 SECTION INCLUDES**

- A. Section Includes fiberglass reinforced plastic panels.

**1.4 REFERENCES**

- B. ASTM International:
  - 1. ASTM D2583 Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.
  - 2. ASTM D5420 Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact).
  - 3. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.

**1.5 SUBMITTALS**

- A. See Division 01 for submittal procedures.
- B. Product Data: Manufacturer's product data for each specified product and component.
- C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors, patterns and textures. Indicate location and dimension of joints and fastener attachment.
- D. Samples: Submit selection and verification samples for finishes, colors and textures. Submit 2 samples of each type of panel, trim and fastener.
- E. Quality Assurance Submittals: Submit the following:
  - 1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics, criteria and physical requirements.
  - 3. Manufacturer's Instructions: Manufacturer's installation instructions. Submit manufacturer's Installation Guide #6211.
- F. Closeout Submittals: Submit the following:
  - 1. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 01 Closeout Submittals (Maintenance Data and Operation Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
  - 2. Warranty: Warranty documents specified herein.

**1.6 QUALITY ASSURANCE**

- A. Qualifications:
  - 1. Installer Qualifications: Installer should be experienced in performing work of this section and should have specialized in installation of work similar to that required for this project.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- A. General: Comply with Division 01 Product Requirements Sections.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification

## GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION DOCUMENTS

- labels intact. Package sheets on skids or pallets for shipment to project site.
- C. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer. Store panels indoors in a dry place at the project site.
  - D. Handling: Remove foreign matter from face of panel by using a soft bristle brush, avoiding abrasive action.

### PART 2 – PRODUCTS

#### 2.1 FIBERGLASS REINFORCED PLASTIC (FRP) PANELS

- A. Basis of Design: Crane Composites, Inc., Product: Kemlite Fiberglass Reinforced Plastic (FRP) Panels
  - 1. Glasbord Panels:
    - a. Type: PIF
    - b. Color: As selected by Architect.
    - c. Moldings: PVC (polyvinyl chloride) moldings. Match field color of FRP panel.
    - d. Rivets: Truss head nylon drive rivets, match field color of FRP panel
  - 2. Other Acceptable Manufacturers
    - a. Glassteel
    - b. Marlite
- B. Substitutions: Refer to Division 01.

#### 2.2 ACCESSORIES

- A. Adhesive/Sealant: Manufacturer's standard.

### PART 3 – EXECUTION

#### 3.1 EXAMINATION

- A. Verify surfaces scheduled to receive FRP panels are ready for panel application.
  - 1. Examine backup surfaces to determine that corners are plumb and straight, surfaces are smooth, uniform, clean and free from foreign matter, nails are countersunk and joints and cracks are filled flush and smooth with the adjoining surface.
  - 2. Do not begin installation until backup surfaces are in satisfactory condition.

#### 3.2 INSTALLATION

- A. Fiberglass Reinforced Panel (FRP) Installation:
  - 1. Cut and drill panels with carbide tipped saw blades or drill bits, or cut with snips.
  - 2. Install panels with manufacturer's recommended gap for panel field and corner joints.
  - 3. Predrill fastener holes in panels with 1/8 inch (3.2 mm) oversize.
  - 4. Trowel adhesive in accordance with manufacturer's recommendations.
  - 5. Install vinyl trim at all outside exposed edges, inside and outside corners and panel to panel joints.
  - 6. Install sealant at all corner seams, ceiling and base, fastener holes and cutout penetrations.

#### 3.3 CLEANING

- A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace products that have been installed and are damaged. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.
  - 1. Remove any adhesive or excessive sealant from panel face using solvent or cleaner recommended by panel manufacturer.

#### 3.4 PROTECTION

- A. Protection: Protect installed product and finish surfaces from damage during construction.

### PART 4 – APPENDIX

#### 4.1 PRODUCT DATA / CUT SHEETS

- A. Crane Composites, Glasbord smooth texture

## GLASBORD® Wall Panels with Surfaseal Finish

It's a dirty world out there. Protect your facility with Crane Composites resilient wall coverings. Our Glasbord with Surfaseal® creates surfaces that deliver unsurpassed hygiene and durability for commercial environments such as restaurants and food processing plants.



GLASBORD EMBOSSED | STONE (15)

Made of fiberglass reinforced plastic (FRP), Glasbord with Surfaseal is extremely moisture-resistant and non-porous. The Surfaseal film finish, found only on Glasbord, provides a barrier that's highly resistant to impact and scratching. Because of its unique process, the Surfaseal finish will not trap soil or bacteria on the panel. The surface is up to 10 times easier to clean and up to six times more stain resistant than other sanitary wall systems. The sturdy panels, which come in both pebbled and smooth textures, hold up under frequent maintenance cycles, and proven performance at an affordable price point with a 10-year limited warranty.



**embossed & smooth**  
textures



## PEBBLED EMBOSSED TEXTURE



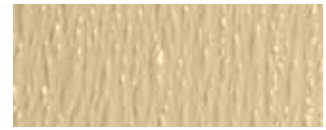
White | 85



Colonial White | 83



Ivory | 84



Soft Beige | 70



Stone | 15



Silver | 66



Pearl Gray | 48



Black | 1201 \*

\*Colors Black and Stone are only available in Class C.

## SMOOTH TEXTURE



White | 85



Gray | 636 \*



Ivory | 84 \*

Patterns and colors are a representation and may not accurately reflect the final product. Please obtain a sample of the product before making a final selection at FRPSamples.com

\* Embossed Black, Smooth Gray and Ivory are available in a Class C fire rating only

## PRODUCT SPECS

### AVAILABLE SIZES

4' x 8' | 4' x 10'

### THICKNESS

0.09" (embossed) | 0.075" (smooth)

### FIRE RATINGS

Class A or Class C | per ASTM-E84

CAN/ULC-S102

FM Approval Available

### ADDITIONAL PRODUCT OFFERINGS

Ceiling and laminated panels also available. See our ceiling application flyer (form 7714) for additional information.

## ACCESSORIES

- Standard Vinyl/PVC Moldings
- Polyurethane Seam Sealant

## MANUFACTURING FOR OVER 60 YEARS!

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.



## USDA/FSIS CERTIFIED

Glasbord panels meet USDA/FSIS requirements for a finished outer surface material that is rigid, durable, non-toxic, non-corrosive and moisture resistant.



## FACTORY MUTUAL APPROVAL

Fire-X Glasbord (FXE and FSFM) is the only fiberglass reinforced interior wall and ceiling panel that is made with Surfaseal finish and is approved under FM Approvals Standard FM 4880 (Plastic Interior Finish Materials). Product installations should be in accordance with FM Approvals Standard FM 4880. This information is available at [www.approvalguide.com](http://www.approvalguide.com) and [www.FRP.com/FMApproved.pdf](http://www.FRP.com/FMApproved.pdf).

