SECTION 09986 SANITARY WALL FINISH
KEMLITE® FIBERGLASS REINFORCED PLASTIC PANELS

PART 1: GENERAL

1.01 DESCRIPTION:

This section describes the requirements for furnishing and installing fiberglass reinforced plastic panels according to manufacturer's recommendations.

1.02 SUBMITTALS:

Submit in accordance with Section **(Insert Section Number)**
1. Two samples of each type of panel, each type of trim and fastener.
2. Shop Drawings: Indicate the location and dimension of joints and fastener attachments.
3. Installation Guide #6211.

1.03 QUALITY ASSURANCE:

Provide panels and molding only from the manufacturer specified to ensure warranty and color harmonization of accessories.

1.04 DELIVERY, STORAGE, AND HANDLING:

A. Delivery of Materials: Package sheets on skids or pallets for shipment to project site.

B. Storage of Materials: Store sheets in a dry place at the project site.

C. Handling: Remove foreign matter from face of panel by use of a soft bristle brush, avoiding abrasive action.

1.05 PROJECT CONDITIONS:

A. Installation shall not begin until building is enclosed, permanent heating and cooling equipment is in operation, and residual moisture from plaster, concrete or terrazzo work has dissipated.

B. During installation and for not less than 48 hours before, maintain an ambient temperature and relative humidity within limits required by type of adhesive used and recommendation of adhesive manufacturer.

C. Provide ventilation to disperse fumes during application of adhesive as recommended by the adhesive manufacturer.

PART 2: PRODUCTS

2.01 MATERIALS:

A. Acceptable Panels

(Insert from Item 1, 2 or 3, Part A)

B. Division Bars, Corner Trim: Panel manufacturer's standard length extruded vinyl pieces; longest length possible – to eliminate end joints.

(Insert from Item 1, 2 or 3, Part B)

C. Sealant:

(Insert from Item 1, 2 or 3, Part C)

D. Fasteners: Non-corrosive drive rivets.

(Insert from Item 1, 2 or 3, Part D)

3.01 PREPARATION:

A. Examine backup surfaces to determine that corners are plumb and straight, surfaces are smooth, uniform, clean and free from foreign matter, nails countersunk, joints and cracks filled flush and smooth with the adjoining surface.

B. Do not begin installation until backup surfaces are put into satisfactory condition.

3.02 APPLICATION:

A. Do all cutting with carbide tipped saw blades or drill bits, or cut with snips.

B. Install panels with manufacturer's recommended gap for panel field and corner joints.

C. Fastener holes in the panels must be predrilled 1/8" (3.2 mm) oversize.

D. For trowel type and application of adhesive, follow adhesive manufacturer's recommendation.

E. Using products acceptable to manufacturer, install the frp panel system in accordance with panel manufacturer's printed instructions, Installation Guide #6211.

3.03 CLEANING:

A. Remove any adhesive or excessive sealant from panel face using solvent or cleaner recommended by panel manufacturer.

ATTACHMENT ITEM 2
Product Specifications – Glasbord-P ® Fiberglass Panels with *Surfaseal* ®

PART 2: PRODUCTS

2.01 MATERIALS:

A. Class III (C) Interior Finish. Wall panels shall be KEMLITE (**Enter Glasbord P or Glasbord** PSI) with *Surfaseal,* (fiberglass reinforced plastic panels). Ceiling panels shall be Kemlite Glasbord CGI with *Surfaseal.* Both manufactured by KEMLITE COMPANY, JOLIET, ILLINOIS U.S.A. PH:1-800-435-0080, 1-815-467-8600, FAX: 1-815-467-8666. Color to be (**See Product Options**). Panel thickness shall be nominal .09" (2.3 mm) for Glasbord P for use as general purpose wall application (embossed finish); nominal .075" (1.9 mm) for Glasbord PSI for use as general purpose wall applications (smooth finish); nominal .10" (2.5 mm) for Glasbord CGI lay-in ceiling panels (embossed finish). Alternate products shall meet or exceed the following properties:

1. Independent laboratory ASTM E-84 testing.

2. Flame spread of 200 or lower; Smoke Developed of 450 or lower per ASTM E-84 latest version. *Numerical flame spread and smoke development ratings are not intended to reflect hazards presented by Kemlite products or any other material under actual fire conditions. These ratings are determined by small scale tests conducted by independent testing facilities using the American Society for Testing and Materials E-84 test standard (commonly referred to as the "Tunnel Test"). KEMLITE 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 user of the product will determine the correct fire-rated interior finish and fire suppression system necessary for a specific installation.*

3. Barcol Hardness (scratch resistance) of 42 (Glasbord P) and 60 (Glasbord PSI and CGI) as per ASTM D-2583.

4. Panels will exhibit no more than a 0.038% weight loss after a 25-cycle Taber Abrasion Test.

5. Gardner Impact Strength of 16 in. lbs. (19 cm kg) for Glasbord P and CGI, and 10 in. lbs. (12 cm kg) for Glasbord PSI per ASTM D-3029.

6. Meets USDA/FSIS Guidelines.

7. ICBO Report Number 4583.

8. A means of frontside identification and confirmation of meeting Class III (C) interior finish requirements after installation and while in service without labels (Glasbord P and CGI only).

Product Options: **(Enter one of the following)**

    a. Glasbord-P with *Surfaseal* .09" (2.3 mm) White (Color Number: 85)
    b. Glasbord-P with *Surfaseal* .09" (2.3 mm) Colonial white (Color Number: 83)
    c. Glasbord-P with *Surfaseal* .09" (2.3 mm) Soft beige (Color Number: 70)
    d. Glasbord-P with *Surfaseal* .09" (2.3 mm) Pearl gray (Color Number: 48)

e. Glasbord-P with *Surfaseal* .09" (2.3 mm) Silver (Color Number: 66)
f. Glasbord-P with *Surfaseal* .09" (2.3 mm) Ivory (Color Number: 84)
g. Glasbord-PSI with *Surfaseal* .075" (1.9 mm) White (Color Number: 8085)
h. Glasbord-CGI with *Surfaseal* .10" (2.5 mm) White (Color Number: 85)

Notes:

1. Special colors can be custom matched and manufactured provided there is a minimum square footage order of 12,000 square feet (1,115 square meters). Please call for quote and allow 4-6 weeks lead-time.

2. Standard sizes: wall panels 4' x 8', 9', 10' and 12' (1.2m x 2.4m, 2.7m, 3.0m and 3.7m). Ceiling panels 2' x 4' and 2' x 2' (.6m x 1.2m, .6m x .6m). Custom sizes are available.

3. Glasbord-P is identified by trademarked single black thread manufactured into the back of the panel and a trademarked *single florescent* thread embedded on the front of the panel (visible only under UV light). Glasbord CGI is identified by the trademarked double black thread on the back of the panel.

B. Moldings:

1. Harmonizing PVC (polyvinylchloride) moldings shall be: **(Enter color and number from list below)**

   Colors:
   85 - White
   83 - Colonial White
   70 - Soft Beige
   48 - Pearl Gray
   66 - Silver
   84 - Ivory

C. Sealant: Optional. Specify joints as sealed with a high quality clear silicone sealant in food preparation, storage, or process areas, areas of high moisture, and in areas where steam cleaning occurs.

D. Rivets: Optional. Specify rivets in harmonizing colors (by color name and number) in areas where there are wide changes in temperature or humidity, where the substrate is unusually uneven, and in all low temperature or cold storage applications. Refer to Installation Guide #6211 for rivet pattern and installation instructions.

E. Local Distributor List Attached or: (Please include if job is local)

Name:

Address:

Telephone:

Contact:

For current distribution and technical information, please call or write: Kemlite Company, Inc., P.O. Box 2429, Joliet IL 60434, (800) 435-0080, (815)-467-8600, FAX (815) 467-8666.