

SECTION 099850 – PREFINISHED PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Fiberglass Reinforced Polyester (FRP) resin panels as shown on the Drawings, as specified herein, and as needed for a complete and proper installation.
 - 2. All fasteners, adhesives, trim and moldings required for a complete installation.
- B. Related Sections include the following:
 - 1. Division 6 Section 061000 & Division 9 Section 092200.

1.3 SUBMITTALS

- A. General: Submit in accordance with Section 013300.
- B. See Section 013310 for Submittal Schedule.

1.4 QUALITY ASSURANCE

- A. Installer Qualification: Engage an experienced Installer who has previously installed wall surface protection systems similar in material, design, and extent to the systems indicated for this project.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project site in original factory wrappings and containers, clearly labeled with identification of manufacturer, brand name, quality or grade, and fire hazard classification.
- B. Store wall surface protection materials in original undamaged packages and containers inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.
 - 1. Maintain room temperature within the storage area at not less than 70 degrees F (21 degrees C) during the period plastic materials are stored. Keep sheet material out of direct sunlight to avoid surface distortion.
 - 2. Store rigid plastic and rigid plastic wall guard in a horizontal position for a minimum of 72 hours, or until the plastic material attains the minimum room temperature of 70 degrees F (21 degrees C).

1.6 PROJECT CONDITIONS

- A. Environmental Conditions: Do not install wall surface protection system components until the space is enclosed and weather proof and until the ambient temperature within the building is maintained at not less than 70 degrees F (21 degrees C) for not less than 72 hours prior to beginning of the protection systems until that temperature has been attained and is stabilized.

1.7 EXTRA MATERIALS

- A. Replacement Materials: After completion of work, deliver not less than two (2) percent of each type, color and pattern of wall surface protection materials and components. Include accessory components as required. Replacement materials shall be from the same production run as materials installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Products: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:
1. Kemlite Company

2.2 MATERIALS

- A. Fiberglass Reinforced Panels:
1. Thickness: 0.090"
 2. Size: 4 X 8', 9', 10', or 12 (as required for each application)
 3. Installation will be single piece by height required. All joints will be vertical. Horizontal joints will not be accepted.
 4. Color: White-Verify on Drawings.
 5. Weight: .07 pounds per square foot
 6. Performance
 - a. Abrasion Resistance .038%
 - b. Flame Spread: U.L. Class "A" and "C"
 7. Moldings/Trim: All exposed panel edges shall be finished with appropriate one- piece or two-piece non-staining vinyl extruded moldings.
 8. Caulks and Adhesives: Use only high quality construction grade adhesives and clear silicone sealant in accordance with manufacturers' recommended installation procedures.
 9. Fasteners: Fully adhered with adhesive as recommended by manufacturer. Mechanical fasteners shall not be permitted.

2.3 FABRICATION

- A. General: Fabricate wall systems to comply with requirements indicated for design, dimensions, details, finish, and member sizes, including wall thickness of components.
- B. Fabricate components with tight seams and joints with exposed edges rolled. Provide surface free of evidence of wrinkling, chipping, uneven coloration, dents, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of Work. Do not proceed until unsatisfactory conditions are corrected.

3.2 COORDINATION

- A. Examine the drawings and Specifications to determine the nature and extent of the proposed construction. Perform work to conform to the construction called for in such a manner as not to interfere with or delay work of other trades.

3.3 INSTALLATION

- A. All work shall be properly aligned, be plumb and true, and installed in accordance with the manufacturer's recommended procedures and by approved installers. Spans shall not exceed limitations set by the manufacturer.
- B. All fastenings, mechanical or otherwise, shall conform to the manufacturer's standards.
- C. Moldings, division bars, cap finish strips, bar angles, etc., shall be sealed with a silicone type sealant.

3.4 CLEANING AND DAMAGED MATERIALS

- A. Upon completion of installation, clean soiled or discolored surfaces and/or remove if unacceptable to the Architect.
- B. Remove and replace any and all units, which are damaged or improperly installed.
- C. Remove all packing materials and excess materials from the site.

END OF SECTION 099850