

## SECTION 097200

### WALL COVERINGS

#### PART 1 - GENERAL

##### 1.1 STIPULATIONS

- A. The specifications sections “General Conditions of the Construction Contract”, “Special Conditions”, and “Division 1 – General Requirements” form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

##### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. FRP (Fiber-glass Reinforced Panels)

##### 1.3 SUBMITTALS

- A. Make submissions in accordance with Division 1 Specifications and ‘SCHEDULE OF MATERIAL SUBMITTALS’, attached at the end of the Specifications.
- B. No deviations, substitutions or changes of materials, to be incorporated into this project, shall be made after approval by the Department, except for written direction by and the approval of the manufacturer of a specific item and re-approval by the Department.
- C. The Department retains the right to require additional items not specifically denoted to be submitted for approval and/or additional clarification.

##### 1.4 QUALITY ASSURANCE

- A. Conform to building code requirements for interior finish for smoke and flame spread requirements as tested in accordance with:
  - 1. ASTM E 84 (Method of test for surface burning characteristics of building Materials)
    - a. Wall Required Rating – Class A.
- B. Sanitary Standards: System components and finishes to comply with:
  - 1. United States Government of Agriculture (USDA) requirements for food preparation facilities, incidental contact.
  - 2. Food and Drug Administration (FDA) 1999 Food Code 6-101.11.
  - 3. Canadian Food Inspection Agency (CFIA) requirements.
- C. Source Quality Control:

1. Obtain fiberglass reinforced panels, moldings and other accessories from a single manufacturer.
2. Obtain plastic liner-panels, trims, flashing and other accessories from a single manufacturer.

#### 1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials factory packaged on strong pallets.
- B. Store panels and trim lying flat, under cover and protected from the elements. Allow panels to acclimate to room temperature (70°) for 48 hours prior to installation.

#### 1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Building are to be fully enclosed prior to installation with sufficient heat (70°) and ventilation consistent with good working conditions for finish work.
- 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.
  1. Provide ventilation to disperse fumes during application of adhesive as recommended by the adhesive manufacturer.
- C. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- D. Lighting: Do not install wall covering until a lighting level of not less than 15 fc is provided on the surfaces to receive wall covering.
- E. Ventilation: Provide continuous ventilation during installation and for not less than the time recommended by wall-covering manufacturer for full drying or curing.

#### 1.7 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  1. Provide two (2) extra panels per each room covering is being installed.

#### 1.8 WARRANTY

- A. Furnish one year guarantee against defects in material and workmanship.

- B. At project closeout, provide to Owner's Representative an executed copy of the manufacturer's standard limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage (PVC wall liner panels).

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. FRP Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
  - 1. Kemlite
  - 2. Sequentia
  - 3. Crane
  - 4. Or "Approved Equal," offering similar products as indicated below:
- B. Product:
  - 1. Standard, FRP, smooth finish all colors

### 2.2 WALL-COVERING PRODUCTS

- A. FRP (Fiber-glass Reinforced Panels): Complying with ASTM D 5319.
  - 1. Coating: Multi-layer print, primer and finish coats or applied over-layer.
  - 2. Size: 48 inches by 96 inches by .090 inches thick.
  - 3. Colors, Textures, and Patterns: As selected by Government Design Professional from manufacturer's full range.

### 2.3 ACCESSORIES

- A. Fasteners: Non-staining nylon drive rivets.
  - 1. Match panel colors.
  - 2. Length to suit project condition.
- B. Fasteners (PVC wall panels):
  - 1. Fastening into Wood: Stainless steel, 1 to 1-1/2-inch, No.10 pancake-head metal screws.
  - 2. Fastening into Metal: Stainless steel, 3/4-inch, No. 10 truss-head sheet metal or flat-head Tek screws.
- C. Moldings, Trim and Caps: One-piece extruded polypropylene or PVC, configured to cover panel edges and corners.
- D. Moldings, Trim and Caps (PVC wall panels): J Trim, Outside Corner, Inside Cove, Base Trim, H Divider and F-Channel.
- E. Adhesive: Mildew-resistant, water-resistant, non-staining adhesive, for use with specific wall covering and substrate application, as recommended in writing by wall-covering manufacturer.

1. PVC wall panel Adhesive: PL400 or Liquid Nails, as recommended by wall panel manufacturer.
- F. Seam Tape: As recommended in writing by wall-covering manufacturer.
- G. Sealant: Clear Silicone.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for levelness, wall plumbness, maximum moisture content, and other conditions affecting performance of work.
- B. 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.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

- A. Comply with manufacturer's written instructions for surface preparation.
- B. Clean substrates of substances that could impair wall covering's bond, including mold, mildew, oil, grease, incompatible primers, dirt, and dust.
- C. Prepare substrates to achieve a smooth, dry, clean, structurally sound surface free of flaking, unsound coatings, cracks, and defects.
  1. Moisture Content: Maximum of 5 percent on new plaster, concrete and concrete masonry units when tested with an electronic moisture meter.
  2. Gypsum Board: Prime with primer recommended by wall-covering manufacturer.
- D. Remove hardware and hardware accessories, electrical plates and covers, light fixture trims, and similar items.
- E. Acclimatize wall-covering materials by removing them from packaging in the installation areas not less than 24 hours before installation.

#### 3.3 INSTALLATION

- A. General: Comply with wall-covering manufacturers' written installation instructions applicable to products and applications indicated, except where more stringent requirements apply.
- B. Install seams vertical and plumb at least 6 inches from outside corners and 3 inches from inside corners unless a change of pattern or color exists at corner. No horizontal seams are permitted.

- C. Trim edges and seams for color uniformity, pattern match, and tight closure. Butt seams without any overlay or spacing between strips.

#### 3.4 CLEANING

- A. Remove excess adhesive at finished seams, perimeter edges, and adjacent surfaces.
- B. Use cleaning methods recommended in writing by wall-covering manufacturer.
- C. Replace strips that cannot be cleaned.
- D. Reinstall hardware and hardware accessories, electrical plates and covers, light fixture trims, and similar items.

END OF SECTION