

**Section 09770**  
**FIBER REINFORCED LAMINATE PANELS (FRL)**

1.1 SUMMARY

- A. Section Includes:
  - 1. Fiberglass reinforced laminate wall panels (FRL).
  - 2. Accessories including adhesives, and sealants.
  
- B. Related Sections:
  - 1. Section 09250            -    Gypsum Board.
  - 2. Section 09651           -    Resilient Base and Accessories

1.2 REFERENCE STANDARDS

- A. National Electrical Manufacturer's Association NEMA: NEMA LD3.13 - Wear Resistance

1.3 SUBMITTALS

- A. Product Data: Manufacturer's literature describing product characteristics, accessories, and limitations.
  
- B. Manufacturer's Instructions: Indicate installation requirements, special procedures, and conditions requiring special attention.
  
- C. Color Samples: Manufacturer's standard selection of plastic laminate colors for selection.

1.4 REGULATORY REQUIREMENTS

- A. Fire Rating: IBC Class A /UL Class A, tested to ASTM E 84.

1.5 PROJECT CONDITIONS

- A. Allow panels to acclimate for 48 hours in temperature environment reasonably close to installation space.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Panolam Industries International, Inc.
  - 1. Tel (877) FRL-WALL (375-9255), Fax (203) 225-0050,
  - 2. Email [FRL\\_info@Panolam.com](mailto:FRL_info@Panolam.com)
  - 3. Web Site <http://www.panolam.com>
  
- B. Substitution Requests: No Substitutions allowed.

## 2.2 FRL PANELS

- A. Fiberglass Reinforced Laminate - Properties:
  - 1. Product: Thermofused melamine overlay, decorative paper and Fire Rated phenolic paper with fiber reinforcing inner layers.
  - 2. Nominal Thickness: 0.088 inch.
  - 3. Panel net size 36" X, 48" X and 60" X , 96" and 120"
  - 4. Surface Burning Characteristics: Rating of 25, or less, as tested to ASTM E84.
  - 5. Smoke Developed: 55, tested to ASTM E84.
  - 6. Wear Resistance: 3500, tested to NEMA3.13.
  - 7. Flexural Strength: 20,148 psi, tested to ASTM D790.

## 2.3 ACCESSORIES

- A. Adhesive: – PL Premium Polyurethane Construction Adhesive by Henkel in 5-gallon pails. Apply as instructed by manufacturer and conforming to Part 3, section 3.3 Installation.
- B. Molding or Trim: FRL may be used with standard trim available the appropriate size and configuration:
  - 1. Division Bars (between panels)
  - 2. Inside corners
  - 3. Outside corners
  - 4. cap (top molding)
  - 5. Aluminum moldings as available from:  
Nudo Products  
1500 Taylor Ave  
Springfield, IL  
800/826-4132
- C. Color matched joint caulking: Color Sil by Color Rite
  - 1. 100% silicon based colored caulking
  - 2. Match panel color (See reference guide from ColorSIL by )  
Color Rite  
600 S. Ranchwood Blvd  
Yukon OK 73099  
405/354-3645

## 2.4 FINISHES

- D. Panel Color, Texture, and Finish: Panolam FRL Color No. [REDACTED].
  - 1. Colors based on Pionite or Nevamar High Pressure Laminate color pallete
  - 2. Textures include Suede (N), Ashwood (Z), Crystal (J) and Soft Leather (C).

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify conditions ready to receive work of this Section before beginning.
- B. Verify gypsum board substrate smooth, plumb, and true, free of waves bulges and within tolerances specified by Section 09250.

### 3.2 PREPARATION

- A. Clean substrate of dirt, dust, waxes, and other bond breaking substances prior to beginning installation.

### 3.3 INSTALLATION

- A. Install panels with bottom edge located to clear top of resilient base specified by Section 09651.
- B. Apply adhesive uniformly using adhesive manufacturers recommended notched trowel to the entire back of panels completely to the edge.
- C. Lay FRL panels in place leaving approximately 1/8 inch between panel joints.
- D. Follow adhesive manufactures recommendations for set & application times.
- E. Apply pressure to entire panel face with laminate type 'J' roller, removing trapped air and ensure proper adhesion between interior surfaces
- F. If no trim is used, seal panel joints and top, side, and bottom edges with colored caulking to match panel color. Wipe smooth and remove excess from FRL panel face.

### 3.4 ADJUSTING

- A. Replace installations out of plumb and not aligned with adjacent panels and construction.

### 3.5 CLEANING

- A. Clean panel face to remove soiling, stains, dust, and dirt using clean rags, and cleaning agents as instructed by manufacturer.
- B. Leave installation clean, free of residue and debris resulting from work of this Section.

END OF SECTION