

**SECTION 06 64 01**

**FIBER-REINFORCED LAMINATES**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Provide fiber-reinforced laminates (FRL) for wall applications.
- B. Related Sections: Coordinate with Work of other sections including the following:
  - 1. Section 092900 - Gypsum Board.
  - 2. Section 096513 - Resilient Base.

**1.2 SUBMITTALS**

- A. Product Data: Submit manufacturer's literature including product characteristics, accessories and limitations.
- B. Selection Samples: Submit samples of colors and finishes if requested by Architect.
- C. Verification Samples: Submit samples of materials selected specified to verify color and finish.
- D. Industry Certifications and Standards: Submit copy of documentation indicating compliance.

**1.3 QUALITY ASSURANCE**

- A. Manufacturer: Minimum of 5 years experience manufacturing similar products.

**1.4 DELIVERY, STORAGE AND HANDLING**

- A. Deliver materials and products in unopened factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations.

**1.5 WARRANTY**

- A. Manufacturer's Warranty: Provide manufacturer's standard warranty against defects in manufacturing.

**PART 2 - PRODUCTS**

**2.1 FIBER-REINFORCED LAMINATES**

- A. Manufacturer: Panolam Industries International, Inc., 20 Progress Drive, Shelton, CT 06484. Tel: 888-375-9255. Web: [www.panolam.com](http://www.panolam.com). Panels shall comply with the following:

1. Thickness: 0.075 inches.
2. Color and Finish: As selected by Architect from manufacturer's full range of Nevamar or Pionite colors and designs.
3. Surface Burning Characteristics: US Standard UL-723/ASTM E 84 Class A; Canadian Standard ULC-S102 Class A for Surface Burning Characteristics of Building Materials.
4. Sustainability, Indoor Air Quality: GREENGUARD Gold Certification.
5. IMO Certified for marine use.
6. Wear Resistance (Cycles) NEMA 3.13: 3500 typical.
7. Flexural Strength ASTM D790: 20,148 psi typical.
8. Molding Profiles: Outside corners flat, outside corners round, division bars, inside corners, standard end caps.
9. Adhesive: Construction Adhesive #4319 by Franklin Adhesives and Polymers or equal approved by panel manufacturer.
10. Joint Caulking: Color Sil by Color Rite or equal approved by panel manufacturer; 100 percent silicone based colored caulking.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

#### **3.2 INSTALLATION**

- A. Install products in strict accordance with manufacturer's instructions and approved submittals.
  - 1 Clean substrate of dirt, dust, waxes, and other bond breaking substances prior to beginning installation.
  - 2 Install panels with bottom edge located to clear top of any rigid wall base. Rubber wall bases may be bonded over the FRL using a polymer or urethane based adhesive.
  - 3 Apply adhesive uniformly using adhesive manufacturer's recommended notched trowel to the entire back of panels completely to the edge.
  - 4 Lay FRL® panels in place leaving approximately 1/8 inch vertical installations 3/16 inch for horizontal installations between panel joints.
  - 5 Follow adhesive manufacturer's recommendations for set and application times.
  - 6 Apply pressure to entire panel face with laminate type roller, removing trapped air and ensure proper adhesion between surfaces.
  - 7 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 caulk from FRL panel face.

**3.3 ADJUSTING AND CLEANING**

- A. Replace installations out of plumb and not aligned with adjacent panels and construction.
- B. Clean panel face to remove soiling, stains, dust, and dirt using clean rags, and cleaning agents as instructed by manufacturer.
- C. Leave installation clean, free of residue and debris resulting from work of this Section.

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