

SECTION 10210

**STANDARD FIBERGLASS RESIN TRANSFER
MOLDED WALL LOUVERS**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. RTM Fiberglass Wall Louvers P/N _____.

1.2 RELATED SECTIONS

1.3 REFERENCES

- A. ASTM D 635 – Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.
- B. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. Laminate Properties
 - 1. ASTM D 882 Tensile Strength.
 - 2. ASTM D 790 Flexural Strength.
 - 3. ASTM D 2583 Barcol Hardness.
 - 4. ASTM D 256 Impact Resistance.
 - 5. ASTM D 792 Density/Specific Gravity of Laminate.
- D. Core Properties
 - 1. ASTM C 177 Thermal Properties.
 - 2. ASTM D 1622 Density/Specific Gravity.
 - 3. ASTM D E 84 Surface Burning Characteristics.

1.4 SYSTEM DESCRIPTION

- A. Design Requirements
 - 1. Design wall louver assemblies to resist failure from corrosion in an environment of _____.
 - 2. Design wall louver assemblies to have a minimum fiberglass content of 25 percent by weight.
- B. Performance Requirements
 - 1. Wall louver assemblies: Maximum flame spread of 25 in accordance with ASTM E 84, and self-extinguishing in accordance with ASTM D 635.
 - 2. Wall louver assemblies: FDA Accepted.
 - 3. Wall louver assemblies: USDA Accepted.

1.4 SUBMITTALS

- A. Submit under provisions of Section.
- B. Product Data: Manufacturer's printed product data indicating characteristics of products specified in this section.
- C. Approval Drawings

1. Plans: Indicate location of each wall louver opening assembly in the project.
 2. Elevations: Dimensioned elevation of each type of wall louver opening assembly in the project, indicate sizes and locations of hardware, if specified.
 3. Details: Installation details of each type installation condition in the project.
 4. Schedule: Indicate each wall louver opening assembly in the project, cross-reference to plans, elevations, and details.
- D. Verification Sample: Two (2) samples to verify custom color match to a color chip supplied by the architect.
- E. Manufacturer's Instructions: Printed installation instructions for wall louver opening assemblies.
- F. Warranty Documents: Manufacturer's standard warranty documents, executed by manufacturer's representative, countersigned by contractor.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer- Minimum twenty (20) years documented experience producing products specified in this section.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Packing, Shipping, Handling, and Unloading
1. Deliver wall louvers, factory-drilled and knocked down.
 2. Package frame assemblies in completely enclosed heavy weight cartons or crates having wood perimeters, labeled with the following information:
 - a. Name of Manufacturer.
 - b. Architect/Engineer & Designated Project Number.
 - c. Tag location in accordance with wall louver schedule.
 - d. Wall louver type, color, and weight.
- B. Acceptance at Site: Accept only sealed, crated, and labeled wall louver opening assemblies at site.
- C. Storage and Protection: Store wall louver assemblies in factory packaging in dry areas, store on edge and protect from damage.

1.7 WARRANTY

- A. Twenty-five (25) year Guarantee: Chem-Pruf® doors and door frames are guaranteed for twenty-five years against failure due to corrosion form specified environment, and for ten years against failure due to materials and workmanship, including wrap, separation or delaminating, and expansion of the core. Chem-Pruf® and industry tolerances and variations are excluded from this guarantee.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturers:
 Chem-Pruf® Door Co., Ltd.
 P.O. Box 4560, Brownsville, TX 78523
 Telephone: 800-444-6924
 Fax: 956-544-7943
 E-mail: info@chem.-pruf.com
 Website: www.chem.-pruf.com

2.2 MATERIALS

All materials used and consumed by Chem-Pruf® in the manufacture of our products are of the highest quality to assure the end products meet Chem-Pruf®'s specifications..

- A. Continuous Strand Glass Fiber Mat: Minimum of 4.5 ounces per square foot weight of glass material.
- B. Resins: Formulated for specified environment, maximum flame spread of 25 in accordance with ASTM E 84, and self-extinguishing in accordance with ASTM D 635.
- C. Anchors: Manufacturer's standard stainless steel anchors.
- D. Bonding Materials: Manufacturer's Standard frame-to-opening bonding system.
- E. Joint Sealer: Silicone sealant, specified in Section 07900.

2.3 MANUFACTURED UNITS

- A. Fiberglass RTM Wall Louvers
 - 1. Construction: One-piece molded cross-section, minimum of 25 mil gel coat applied in mold, minimum of tow (2) layers continuous strand fiberglass mat, saturated with resins.
 - 2. Sizes: For wall louver sizes and frame depths indicated on drawings.
 - 3. Finish: Smooth Semi-Gloss Surface.
 - 4. Color: White, Grey, Tan or Custom color to match a color chip supplied by the architect.
 - 5. Gel-coated or painted pultrusions are not acceptable.

2.4 FABRICATION

- A. Fiberglass Reinforced Plastics (FRP) Wall Louvers: All Chem-Pruf®'s workmanship is to be of the highest quality in order to meet Chem-Pruf®'s quality control requirements.
- B. Fiberglass RTM Wall Louvers
 - 1. Resin transfer in mold of exact wall opening size, with gel coat. Glass mat layers to form solid fiberglass outer surface.
 - 2. Formulated gel coat for environment and integral color specified.
 - 3. Form structure of fiberglass components.

PART 3 EXECUTION

3.1 INSTALLATION CONDITIONS

- A. Verification of Conditions
 - 1. Openings are correctly prepared to receive wall louvers.
 - 2. Openings are correct size and depth in accordance with shop drawings or submittals.
- B. Installer's Examination
 - 1. Have the installer examine conditions under which construction activities of this section are to be performed and submit a written report if conditions are unacceptable.
 - 2. Transmit two copies of the installer's report to the architect within 24 hours of receipt.
 - 3. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
 - 4. Beginning construction activities of this section indicates the installer's acceptance of conditions.

3.2 INSTALLATION

- A. Install wall louver opening assemblies in accordance with shop drawings and manufacturer's printed installation instructions, using installation methods and materials specified in installation instructions.

- B. Site tolerances: Maintain plumb and level tolerance specified in manufacturer's printed installation instructions.
- 3.3 ADJUSTING
- A. Adjust wall louver to operate correctly in accordance with hardware manufacturer's printed installation instructions.
- 3.4 CLEANING
- A. Clean surfaces of wall louver opening assemblies and sight exposed hardware in accordance with respective manufacturer's maintenance instructions.
- 3.5 PROTECTION OF INSTALLED PRODUCTS
- A. Protect wall louver opening assemblies and hardware from damage by subsequent construction activities until final inspection.

END OF SECTION
