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SECTION 09 7710 – FRAMED DECORATIVE PANEL SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Decorative 7/16” (11 mm) thick prefinished panel mechanically and adhesively applied directly to a solid substrate, utilizing a pre-engineered application process.
 - 1. Hardware: Extruded aluminum joinery moldings, extruded aluminum perimeter trim moldings and mechanical fasteners.
 - 2. Panels:
 - a. Fire-Rated HPL laminated to Fire-Rated wood fiber substrate, with balancing backer.
 - b. Non Fire-Rated HPL laminated to wood fiber substrate, with balancing backer.
- B. Products Not Furnished or Installed under This Section:
 - 1. Wood Veneer casework.
 - 2. Gypsum Board backup.

1.2 RELATED SECTIONS

- A. Section [____] - Wood [Metal] Stud Framing
- B. Section [____] - Custom Cabinets
- C. Section [____] - Solid Wood Paneling
- D. Section [____] - Gypsum Wallboard.
- E. Section [____] - Painting & Transparent Finishes.
- F. Section [____] - Resilient Base.

1.3 REFERENCES

- A. American Society for Testing and Materials: Standard Specifications (ASTM)
 - 1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

- B. Architectural Woodwork Standards as published by the Architectural Woodwork Institute, the Architectural Woodwork Manufacturers Association of Canada, and the Woodwork Institute.
 - 1. Architectural Woodwork Standards - Edition 1.
- C. National Electrical Manufacturers Association (NEMA) LD-3-2000 for HPL Laminate

1.4 SUBMITTALS

- A. Product Data: Submit sufficient manufacturer's data to indicate compliance with these specifications, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- B. Shop Drawings: Submit elevations of each wall showing location of paneling and trim members with respect to all discontinuities in the wall elevation.
- C. Selection Samples: Submit manufacturer's standard color and pattern selection samples representing manufacturer's full range of available colors and patterns pertinent to the project.
- D. Samples for Verification: Submit 6" (154mm) by 10" (254mm) section of panel for each panel selected indicating the color, texture, and pattern required.
 - 1. Submit complete with specified applied finish.
 - 2. Exposed Molding and Trim: Include 4" (101mm) long samples of each type, finish, and color.
- E. Manufacturers Safety Data Sheets (SDS) for adhesives, sealants and other pertinent materials prior to their delivery to the site (available as downloads for most Marlite's products at <http://www.marlite.com/tech-details.aspx> or by contacting Marlite at info@marlite.com).
- F. Maintenance Instructions

1.5 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)
 - 2. Required Rating – Class [A] [B] [C].

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver panels and associated materials factory packaged on strong pallets and properly packaged or protected.
 - 1. Upon delivery carefully inspect all cartons, packages, pallets and protective wrap for damage or material shortage.

2. Open and inspect suspect packages, cartons or wrapped pallets for damage.
 3. Contact shipper immediately to report any damaged or missing materials.
 4. Contact Marlite @ (800) 377-1221 immediately to report any damaged or missing materials.
 5. Contact Marlite @ (800) 377-1221 with any questions, problems or concerns.
- B. Store products in manufacturer's unopened packaging until ready for installation.
1. Maintain plastic or other protective wrap in place during on site handling until ready for installation.
 2. Keep panels clean and do not stack panels after removal of protection.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

- A. Wood composite panels are subject to the effects of humidity and temperature. Do not use in kitchens, rest rooms, or other high humidity areas.
- B. Partition walls are to be finished and the building completely closed. Walls shall be thoroughly dry and concrete cured and dry before starting installation.
- C. HVAC system must be operable and installation area must be balanced to normal operating conditions.
- D. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. To ensure product performance, a temperature range of 60°-80°F (16°C-27°C) and a humidity range of 35-55% must be maintained during storage, installation and product life cycle. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 COORDINATION AND SEQUENCING

- A. Except as specified by the architect, it's recommended to locate trim members so that panel lines coordinate with doors, headers, jambs and other discontinuities in a wall.
- B. Vapor barrier shall be used on exterior walls behind backing to discourage warping.
- C. Coordinate with casework manufacturer. Deliver material to the fabrication shop.

1.9 WARRANTY

- A. Standard Warranty: All products shall be warranted to be free from defects for a period of 30 days after installation.

PART 2 - PRODUCTS

2.1 ACCEPTABLE PRODUCT

- A. Marlite; 1 Marlite Drive, Dover, OH 44622. 800-377-1221 FAX (330) 343-4668 Email: info@marlite.com www.marlite.com.
- B. Product: Sieva Wall System

2.2 HARDWARE

- A. Horizontal and Vertical alignment framing
 - 1. CP-3 Hidden Reveal to create 1/16" reveals. Furnished in full 10'-0" (3m) lengths.
 - 2. CP-4 Retro Reveal (2 piece) to create 3/4" reveals. Base and Cap furnished in full 10' (3m) lengths.
 - 3. CP-6 Slim Reveal to create 1/8" reveals. Furnished in full 10'-0" (3m) lengths.
 - 4. CP-7 Bold Reveal (2 piece) to create 1" reveals. Base and Insert furnished in full 10' (3m) lengths
- B. Panel Trim: Aluminum profiles furnished in full 10' (3m) lengths
 - 1. Horizontal Edge Cap – Marlite part #CP270
 - 2. Vertical Edge Cap / Inside Corner (2 piece) – Marlite part #CP280
 - 3. 90° Outside Corner Cap (2 piece) – Marlite #CP90C
- C. Hardware and Trim Material:
 - 1. Heavy weight extruded aluminum 6063-T5 alloy and prefinished at the factory
 - a. Concealed Aluminum – Mill finish
 - b. Exposed Aluminum – [Clear satin anodized] [Black satin anodized]

2.3 PANELS

- A. Panel Configuration:
 - 1. Face dimensions: Full sheets [48" (122cm) wide x 96" (244cm) high] [48" (122cm) wide x 120" (305cm) high]
 - 2. Panel thickness - .44" (11mm) thick
- B. Wood Fiber Substrate:
 - 1. Class A
 - a. Marlite panels are typically manufactured using various wood fiber substrates having either 75%, 82% or 100 % recycled wood waste. When available as Fire-Rated, a higher percentage may be specified if required for environmental credits.
 - 2. Class C
 - a. Marlite panels are typically manufactured using various wood fiber substrates having either 75%, 82% or 100 % recycled wood waste. When available as Fire-Rated, a higher percentage may be specified if required for environmental credits.
- C. High Pressure Laminate: vertical grade high pressure plastic laminate adhered to wood fiber substrate

1. Edges – Square for the CP-4 and CP-7 reveals. Kerfed for the CP-3 and CP-6 reveals
2. Balancing Backer: Kraft paper that doesn't not contribute to or pose an unusual additional fire hazard.
3. Color and Pattern: _____ [As selected by Architect from manufacturer's standard selection]

2.4 ADHESIVES

- A. Marlite Brand C-109 solvent based adhesive or as otherwise approved by Marlite

2.5 FABRICATION

- A. All framing, panels, hardware and accessories shall be factory finished and ready to install except for field fabrication as required by jobsite and perimeter conditions.
 1. Refinish field cut panel edges in accordance with manufacturer's instruction before installation.
 2. For all cut-outs, drill corners for a minimum 1/8" radius.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Installer's Examination: Examine conditions under which construction activities of this section are to be performed. Submit written notification to Architect and system manufacturer if such conditions are unacceptable. Beginning erection constitutes installer's acceptance of conditions.
 1. Verify that a vapor barrier has been provided on exterior walls behind backing to prevent warping.
 2. Verify backing and mounting surfaces are smooth, solid, and flat. [All drywall joints are to be taped and finished].
 3. Verify that walls are sealed, primed before installation begins.
 4. Verify mechanical, electrical, and building service and/or items affecting work of this section are placed and ready to receive this work.
 5. Verify that structural stud spacing does not exceed 24" on-center.
- B. Structural walls are to be finished, with building completely closed. Walls shall be thoroughly dry before starting installation.

3.2 PREPARATION

- A. Conditioning: Panels must be allowed to acclimate to a balanced environment in the installation location for 72 hours prior to installation.
- B. Protect existing surfaces with drop cloths.
- C. Except as directed by the architectural drawings, before installing, examine panels and arrange to achieve best combination of color, pattern, texture and grain.

3.3 INSTALLATION

- A. Install all materials in strict accordance with the manufacturer's installation instructions and recommendations, with hardware straight, plumb, and level.
 - 1. Anchor units rigidly and securely in place.
 - 2. Cut sheets to meet existing supports.
- B. Fasten supports and trim using appropriate fasteners into a stud or other solid substrate at centers as specified by the manufacturer. Where screws do not hit the studs, fasten with adhesive in accordance with the manufacturer's recommendations. Pre-drill holes thru the members and fasten the screw flush with the flange on the aluminum profile. Where necessary countersink for the screw head to seat flush with the flange.
- C. Avoid contamination of the panel faces with adhesives, solvents or cleaners during installation.

3.4 CLEANING AND PROTECTION

- A. Clean and remove dust and other foreign matter from panel and framing surfaces. Clean finishes in accordance with manufacturer's instructions.

END OF SECTION 09 7710