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**SECTION 09 7710 – FRAMED DECORATIVE PANEL SYSTEMS**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Decorative 3/4" (19mm) thick prefinished panel with pre-engineered attachment clip along with hardware and trim systems for installation directly to studs or solid substrate.
  - 1. Hardware: Aluminum cross rail with cross splines.
  - 2. Panels:
    - a. Faux Print finish (Simulated Wood Grain) applied by offset gravure print process utilizing solid color oven-baked base paints, ink overprints and oven-baked protective topcoat.
    - b. Azure (Wood Grain) and Graphic Images applied using direct digital imaging to wood fiber substrate including seal coats, color inks and protective topcoats.
    - c. Metal sheets laminated to wood fiber substrate.
    - d. Signature Select AA Grade Wood Veneer laminated to wood fiber substrate having a balancing backer sheet, with protective topcoats.
    - e. High Pressure Laminate adhered to wood fiber substrate and having a balancing backer sheet.
  
- 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.

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.
- D. Samples for Verification: Submit sample for each component and for each exposed finish required, prepared on samples of size indicated below complete with exposed molding and trim samples. Sample to indicate type, finish, and color specified.
  - 1. Prints: Submit 6" (154mm) by 10" (254mm) section of panel for each panel selected indicating the color, texture, and pattern required.
    - a. Submit complete with specified applied finish.
    - b. For selected patterns show complete pattern repeat.
  - 2. Metal Veneers Panel: 4" (154mm) by 5" (254mm) samples of each type and color.
  - 1. Wood Veneers: Submit sample sets of [each] Marlite Signature Select AA Grade wood veneer with finish choice. Sample size approximately 6" (154mm) by 10" (254mm). Sample sets to show the full range of normal color and texture variations expected.
    - a. Classic Clear Topcoat
    - b. Custom Stain
- 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](mailto: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][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 Dr, Dover, OH 44622. 800-377-1221 FAX (330) 343-4668 Email: info@marlite.com [www.marlite.com](http://www.marlite.com).
- B. Product: Surface Systems – Radius Wall System.

2.2 HARDWARE

- A. Vertical Main Rail and horizontal Cross Spline alignment framing. Vertical Main Rails are to be heavyweight extruded aluminum. Horizontal Cross Splines are flexible extruded PVC.
1. NMR - Narrow Main Rail, to create detailed 1/4" vertical reveals. Furnished in full 8' (2.44m) lengths.
  2. CMR - Channel Main Rail, to create detailed 1/2" vertical reveals. Furnished in full 8' (2.44m) lengths.
  3. NCS-RAD - Narrow Cross Spline, to create detailed 1/4" horizontal reveals. Furnished cut-to-size to match panel.
  4. CCS-RAD - Channel Cross Spline, to create detailed 1/2" horizontal reveals. Furnished cut-to-size to match panel.
- B. Panel Trim: Aluminum Profiles furnished in full 10' (3 m) lengths
1. Outside Corner – Narrow profile; Marlite #NL-760
  2. Edge/Inside Corner – Narrow profile; Marlite #NL-770.
- C. Hardware and Trim Material:
1. Aluminum - Heavy weight extruded aluminum 6063-T5 alloy and prefinished at the factory.
    - a. Concealed aluminum - Mill finish
    - b. Exposed aluminum perimeter trim - [Clear satin anodized.] [Black satin anodized.]
    - c. Exposed aluminum Main Rail - [Clear satin anodized.] [Black satin anodized.]
    - d. Exposed PVC Cross Spline - [Silver, to harmonize with clear satin anodize.] [Black, to harmonize with black satin anodize.]

2.3 PANELS

- A. Panel Configuration:
1. Face dimensions: [Nominal 24" (61cm) wide x 24" (61cm) high.] [As indicated on the drawings].
  2. Panel thickness - 3/4" (19mm) thick.

- B. Wood Fiber Substrate:
  - 1. Medium density wood fiberboard conforming to ANSI A208.2, industrial-grade MDF or other wood fiber substrates having not less than 75% recycled wood waste
  - 2. Medium density wood fiberboard conforming to ANSI A208.2, industrial-grade MDF and having No-Added Formaldehyde.
  
- C. Faux Print finish (Simulated Wood Grain) applied by offset gravure print process utilizing solid color oven-baked base paints, ink overprints and oven-baked protective topcoat. Edges - Square, and finished, to provide a black edge.
  - 1. Color and Pattern: \_\_\_\_\_ [As selected by Architect from manufacturer's standard selection.]
  
- D. Marlite Azure Wood Grain pattern panels; applied using direct digital imaging to wood fiber substrate including seal coats, color inks and protective topcoats.
  - 1. Edges - Square, and finished
  - 2. Color and Pattern: \_\_\_\_\_ [As selected by Architect from manufacturer's standard selection.]
  
- E. Custom Digital Graphic Imaging Panels; applied using direct digital imaging to wood fiber substrate including seal coats, color inks and protective topcoats.
  - 1. Edges - Square, and finished.
  - 2. Color and Pattern: In accordance with Artwork available from the Architect.
  - 3. Digital graphic artwork or files to be provided by Architect or Designer. Setup charges may apply.
  - 4. Digital graphic artwork files can be produced and provided by Marlite's Design Dept. Creative charges may apply.
  
- F. Metal Panels – thin gauge metal sheet, laminated to wood fiber substrate.
  - 1. Edges - Square, and finished, to provide a black edge.
  - 2. Color and Pattern: \_\_\_\_\_ [As selected by Architect from manufacturer's standard selection.]
  - 3. Grain direction: [Vertical.] [Horizontal.]
  
- G. Wood Veneer Panels: Signature Select AA grade quality wood veneer laminated to wood fiber substrate, and coated with furniture grade catalyzed finish as protective topcoats.
  - 1. Edges – Square cut and finished.
  - 2. Balancing Backer: Wood veneer measuring between 0.015" (0.38mm) and 0.025" (0.64mm).
  - 3. Veneer Face: 0.010" (0.25mm) to 0.015" (0.38mm) with a catalyzed finish of approximately 0.003" (0.08mm).
  - 4. Matching between panels: non-sequenced matching [Manufacturer's standard] or sequenced matching [As indicated on the drawings].
  - 5. Species \_\_\_\_\_ [As selected by Architect from manufacturer's selection.]
  - 6. Choice of Finish
    - a. Classic Clear Topcoat
    - b. Custom Stain

- H. High Pressure Laminate: Vertical grade high pressure plastic laminate adhered to wood fiber substrate.
  - 1. Edges - Square, and finished, to provide a black edge.
  - 2. Balancing Backer: Kraft paper that does 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 panels are smooth, solid, and flat. [All drywall joints are to be taped and finished].
  - 3. Verify that walls are primed before installation begins.
  - 4. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.
  - 5. Verify that 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 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 #6 trim-head screws anchored into a stud or other solid substrate at 16" (40.64 cm) centers. 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