

SECTION 09 7710 – FRAMED DECORATIVE PANEL SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Decorative ½” / ¾” (13mm/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: Steel Vertical Posts, Horizontal Rails, and fixing hardware
 2. Panels:
 - a. **Real Wood Veneers** AA Architectural Veneer laminated to wood fiber substrate with balancing sheet.
 - b. **High Pressure Laminate** adhered to wood fiber substrate and having a balancing backer sheet.
 - c. **Real Wood Veneers Wood Glass**
 - d. **Phenolic** with brown core
 - e. **CompactWood®** real wood phenolic
- B. Products Not Furnished or Installed under This Section:
1. Wood Veneer casework.
 2. Drywall or gypsum board.
 3. Screws to attach frame to wall/substrate

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.

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- 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. **Phenolic:** Submit 6" (154mm) by 10" (254mm) section of panel for each panel selected indicating the color, texture, and pattern required..
 - 2. **High Pressure Laminate:** Submit 6" (154mm) by 10" (254mm) samples of each type and color.
 - 3. **Real Wood Veneers** Wood Veneer: Submit sample sets of [each] wood veneer with stain color and finish required. Sample size approximately 6" (154mm) by 10" (254mm). Sample sets to show the full range of normal color and texture variations expected.
 - 4. **Glass:** Submit sample 6" x 6" for each pattern selected.
- E. Manufacturers Material Safety Data Sheets (MSDS) for adhesives, sealants and other pertinent materials prior to their delivery to the site.
- 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. Only commence installation when all materials have been

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received in perfect condition. Do NOT commence installation if there is a short shipment or damaged component.

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 AAM immediately to report any damaged or missing materials, but within 48 hours of receipt.
 5. Contact AAM with any questions, problems or concerns.
- B. Store products in manufacturer's 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 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 and approved shop drawings, 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.

1.9 WARRANTY

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

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PART 2 - PRODUCTS

2.1 ACCEPTABLE PRODUCT

- A. American Architectural Millwork; 2825 Commerce Parkway, North Port, FL 34289 TEL: 1.855.295.2206 Email: pwest@millworkusa.com www.millworkusa.com
- B. Product: Façade Architectural Wall Panel System

2.2 HARDWARE

- A. Vertical Main Rail and Horizontal Cross Rail framing.
 - 1. VMR - Vertical Main Rail, to create detailed reveals. Furnished in full 10'- 0" (3.0m) lengths.
 - 2. HCR - Horizontal Cross Rail, to create detailed reveals. Furnished in full 9'- 0" (2.750m) lengths.
 - 3. PSB – Panel Secure Bar, on which panels will be secured.
- B. Panel Fixings
 - 1. PC1 – Panel Clip which panels are attached will be secured.

2.3 PANELS

Panel Configuration:

- 1. Face dimensions: [Nominal 24" (610mm) wide x 24" (610mm) high.] [As indicated on the drawings].
 - 2. Panel thickness – ¾" / ½" (19mm/ 13mm) thick as indicated on drawings
- 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. Phenolic Panels - Solid Phenolic panels with brown core as manufactured by [FORMICA/WILSONART/ARPA/ABET/NEVAMAR]
 - 1. Color and Pattern: _____ [As selected by Architect from manufacturer's standard selection.]
 - D. Metal Panels – thin gauge metal sheet, laminated to wood fiber substrate.
 - 1. Edges - Square, and sealed, to provide a black edge.
 - 2. Color and Pattern: _____ [As selected by Architect from manufacturer's standard selection.]
 - 3. Grain direction: [Vertical.] [Horizontal.]
 - E. Stone Panels – Genuine thin stone veneer laminated to honeycomb aluminum substrate, or wood fiber substrate (MDF) for Slate finishes.

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1. Edges – Square cut.
2. Color and Pattern: _____ [As selected by Architect from manufacturer's standard selection.]
3. Grain direction: Random.
4. Pattern match: Random.

F. Wood Veneer Panels: Real Wood Veneers AA Architectural grade wood veneer laminated to wood fiber substrate, and coated with furniture grade catalyzed finish as protective topcoats.

1. Edges – Square cut and sealed.
2. Balancing Backer: Gator Backer
3. Veneer Face: 0.010" (0.25mm) to 0.015" (0.38mm) with a catalyzed finish of approximately 0.003" (0.08mm).
4. Species and Cut - : _____ [As selected by Architect from manufacturer's selection.]
 - a. Grain direction: [Vertical] [Horizontal].
5. [Wood veneer stained color to match submission.][Natural finish with clear topcoat.]

G. High Pressure Laminate: Vertical grade high pressure plastic laminate adhered to wood fiber substrate.

1. Edges - Square, and sealed, 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. Faces applied with PVA adhesive or Time Bond Contact

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.

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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 service and/or items affecting work of this section are placed and ready to receive this work.
 5. Verify that stud spacing does not exceed 24" (600mm) 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. For book matched panels follow the sequence provided by manufacturer.

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 vertical and trim using #6 trim-head screws anchored into a stud or other solid substrate at 16" (40.64cm) centers. 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