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ENSEMBLE WOOD VENEER ACOUSTIC PANELS

This is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text. Delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text.

This section specifies various types of acoustical wall panels. These products are manufactured by Forum Manufacturing, Inc. Revise the section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat*™ for other section numbers and titles.

SECTION 09 84 33 – ACOUSTICAL WALL PANELS

PART I – GENERAL

1.1 SUMMARY

- A. This Section includes acoustical wall panels. Work Includes:
 - 1. Perforated wood veneer wall panels.
 - 2. Panel Installation system

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
 - 2. ASTM E795 Standard Practices for Mounting Test Specimens During Sound Absorption Tests.

1.2 SUBMITTALS

- A. Submit shop drawings showing fabrication and installation of acoustical wall panels including plans, elevations, sections, details of components, and attachments to other construction.
- B. Submit samples in 12 inch square units of each type of acoustical wall panel required. Include representative samples of installation devices and accessories.
- C. Submit product test reports from and based on tests performed by a qualified independent testing agency acceptable to authorities having jurisdiction, showing acoustical wall panels comply with requirements specified for sound absorption performance.
- D. Submit product certificates signed by manufacturers of acoustical wall panels certifying their products comply with specified requirements.

1.3 QUALITY ASSURANCE

- A. Testing Agency Qualifications: To qualify for acceptance, an independent testing agency must demonstrate to Architect's satisfaction, based on evaluation of agency-submitted criteria conforming to ASTM E 699, that it has the experience and capability to conduct satisfactorily the testing indicated without delaying the Work.

- C. Single Source Responsibility: Obtain wood veneer acoustical wall panels from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying the Work.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect wood veneer acoustical wall panels from excessive moisture in shipment, storage, and handling. Do not deliver material to building until wet work, such as concrete and painting has been completed and cured to a condition of equilibrium. Allow product to acclimate on-site for a period of 72 hours prior to installation.

1.5 PROJECT CONDITIONS

- A. Do not begin installation until spaces for wood veneer acoustical wall panels have been enclosed and maintained at approximately the same humidity and temperature conditions as planned for occupancy. Maintain temperature and humidity as recommended for architectural millwork by the Architectural Woodwork Standards, Edition I.
- B. Check actual wall surfaces by accurate field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. Perforated Wood Veneer Wall Panels

1. Manufacturer: Forum Manufacturing, Inc.
77 Brown St., Milford Center, OH 43045, (937) 349-8685, fax (937) 349-8785
Email: kwestfall@forummfg.com; www.forummfg.com

2.2 MATERIALS

- A. Perforated Wood Veneer Wall Panels: Forum Manufacturing, Inc. "Ensemble" perforated wood veneer acoustical wall panel system
 1. Thickness: [1" Acoustic Core, 1 3/4" overall panel thickness]
[2" Acoustic Core, 2 3/4" panel thickness]
 2. NRC Rating: 0.85
 3. Veneer Substrate: minimum 60 lb density
 4. Veneer Face: [White Maple] [American Cherry] [Red Oak] [White Ash] [White Oak]
[American Walnut] [African Mahogany] [Birch]
[Other Available Veneers: Alder, Hickory, Lyptus, Bamboo, Figured Anigre, Ribbon Sapele]
 5. FSC Wood: Provide FSC certified wood for substrates and face veneers in accordance with the forest Stewardship Council's (FSC) Principles and Criteria for wood building components. (LEED Materials and Resources Credit 7.) Provide FSC Chain of Custody Documentation from panel manufacturer.]
 6. Edge Detail: [Integral stop groove border with veneer edge banding.] [Hardwood perimeter] [No edgebanding]
 7. Sizes and Configurations: As shown on the architectural drawings.
 8. Finish: [Natural, unfinished] [Natural, no stain, clear top coat] [Stain & top coat to match architect's sample]

9. Installation/Mounting System: Concealed attachment, [Z-clips] [French Cleats]
[as shown on the architectural drawings]

2.3 FABRICATION

- A. Fabricate panels to sizes and configurations indicated.
1. Fabricate panels in factory to exact sizes required to fit wall surfaces based on field measurement of completed substrates indicated to receive wood veneer acoustical wall panels.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Install acoustical wall panels in locations indicated with vertical surfaces and edges plumb, top edges level and in alignment with other panels, scribed to fit adjoining work accurately at borders and at penetrations. Comply with panel manufacturer's printed instructions for installation of panels.
- B. Construction Tolerances: As follows:
1. Variation from Plumb and Level: Plus or minus 1/16 inch (1.6 mm).
 2. Variation of Joints from Hairline: Not more than 1/16 inch (1.6 mm).

3.2 CLEANING

- A. After completion of installation, clean panels to remove dust and other foreign materials from the Veneer face, using a soft dry brush, a vacuum, or both.
- B. Remove surplus materials, rubbish, and debris resulting from acoustical wall panel installation upon completion of the Work, and leave areas of installation in a neat and clean condition.

3.4 PROTECTION

- A. Provide final protection and maintain conditions in a manner acceptable to manufacturer and installer to ensure acoustical wall panels are without damage or deterioration at the time of Substantial Completion.

END OF SECTION 09 84 33