

SECTION 09 77 23 - PREFABRICATED WALL PANEL SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Prefabricated Wall Panel System comprising of:
 - 1. Fabric upholstered molded laminated acoustical glass fiber panels with pressure-impregnated hardened contoured edge.
 - 2. Fabric upholstered mineral fiberboard panels with contoured edge

1.02 RELATED REQUIREMENTS

- A. 01270 - Unit Prices: Descriptions of unit price items, administrative requirements.
- B. 01230 - Alternates: Descriptions of items, administrative requirements.
- C. 01300 - Administrative Requirements: Submittal procedures, project meetings, progress schedules and documentation, reports, coordination.
- D. 01355 - LEED Certification Procedures.
- E. 01600 - Product Requirements: Fundamental product requirements, substitutions and product options, delivery, storage, and handling.
- F. 01700 - Execution Requirements: Examination, preparation, and general installation procedures; pre-installation meetings; cutting and patching; cleaning and protection; starting of systems; demonstration and instruction; closeout procedures except payment procedures; requirements for alterations work.

1.03 Allowances:

- A. 01210 - Allowances, for cash allowances affecting this section.

1.04 Unit Prices:

- A. See Section 01270 - Unit Prices, for additional unit price requirements.
 - 1. Provide the work under the unit price method.
 - 2. Measure panel area by the square foot (meter).
- B. Alternates:
 - 1. See Section 01230 - Alternates, for product alternatives affecting this section.

1.05 REFERENCE STANDARDS

- A. ASTM C 423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- B. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2007.

1.06 ADMINISTRATIVE REQUIREMENTS

- A. Pre-installation Meeting: Conduct a pre-installation meeting at the project site, one week prior to the start of the work of this section; require attendance by all of the following:
 - 1. Owners Representative.
 - 2. Architect.
 - 3. Manufacturers Representative.
 - 4. Other Trades affected by the work of this section.

1.07 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittal procedures.

- B. Product Data: Submit manufacturers' material specifications and installation instructions for handling, storage, protection and maintenance.
- C. Shop Drawings: Indicate elevation views, of each panel configuration, layout and installation details.
- D. Samples: Submit two panel samples, 12 x 12 inches in size, illustrating assembled upholstered wall fabric, construction and core materials.
- E. Certificate: Certify that products of this section meet or exceed specified fire performance characteristics.
- F. Test Reports: Indicate ASTM E 84 - Flame Spread Index, Smoke Developed Value.
- G. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owners name and registered with manufacturer.
- H. Maintenance Materials: Furnish the following for use in maintenance of project.
 - 1. See Section 01600- Product Requirements, for additional provisions.
 - 2. Extra Stock Material: 5% of gross wall area of each color pattern and type installed.
 - 3. Stock shall be packaged with protective coating and identified with appropriate labels and delivered to client after move in.

1.08 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum five years of experience.

1.09 MOCK-UP

- A. Provide panel mock-up, long by 4 feet long x 4 feet wide, illustrating fabric upholstery and edge construction.
- B. Locate where directed.
 - 1. Mock-up may remain as part of the Work.

1.09 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project site in protective wrapping.
- B. Store materials in a dry place under cover and elevated above grade.
- C. Do not deliver materials to site prior to completion of wet work.

1.10 WARRANTY

- A. See Section 01780 - Closeout Submittals, for additional warranty requirements.
- B. Provide one-year manufacturer warranty against defects in materials and workmanship.
 - 1. Correct defective work within a one-year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. DFB Sales, Inc., 718.729.8319, 800.433.4546: www.dfbsales.com.
 - 1. Panel-Tex Hardened Edge 1000 Acoustical System.
 - 2. Panel-Tex Composition Panel System.
 - 3. Panel-Tex Tack Panel System.
- B. Substitutions: See Section 01600 - Product Requirements.

2.02 MATERIALS

- A. Hardened Edge Panel-Tex Prefabricated System: Manufacturers standard hardened edge prefabricated panel comprised of a pressure-impregnated hardening agent around the perimeter of the panel with not less than 3/16 inch penetration.
 - 1. Frame: Fiberglass core panels shall comply with ASTM E 84, shall be 7 lb per cu. ft. and cut square to within 1/64 inch tolerance.
 - 2. Edge Detail: Shall have the flexibility to meet any profile detail requirement.
 - 3. Core Materials: Acoustical inorganic glass fibers complying with ASTM E 84 test requirements, compressed into boards, bonded by a thermosetting agent, 7 lb per cu. ft. density, 1/16 inch thickness tolerance.
 - 4. Mounting: Panels shall have a series of hard mounting areas measuring 4" x 4" x 1/2 inch consisting of concentrated hardening agent.
 - 5. Noise reduction coefficient (NRC) shall be .75 using ASTM C-423 a sound absorption coefficient by the reverberation room method.
- B. Composition/Track Panel: Manufacturers standard prefabricated panel comprised of a dimensionally stable inorganic mineral fiberboard, resistant to moisture, expansion and warping. Core material shall have density range of 22 to 23 lbs. per cu. Ft.
 - 1. Noise reduction coefficient (NRC) shall be .45 using ASTM C-423 a sound absorption coefficient by the reverberation room method.
 - 2. Fabric: Shall be upholstered so that the fabric is taut and all vertical and horizontal patterns match. Fabric shall be tested for suitability and stability. Proper backing shall be applied if required.
- C. Mounting Accessories: Mechanical fasteners and other attachment components as required by the manufacturer for concealed fastening of the panel frames or core materials for the application indicated.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Inspect conditions and substrates under which the work of this section will be performed.
- B. Verify that the installation may commence.
- C. Work shall not proceed until unsatisfactory conditions have been fully resolved.

3.02 INSTALLATION

- A. Install upholstered prefabricated wall panels in proper alignment and in strict accordance with manufacturer's instructions.
- B. Tack-able and acoustical core materials shall be provided as specified, located as indicated on drawings.
- C. Install the fabric square and free of ripples and distortions.
- D. Prefabricated wall panels shall be directly or mechanically mounted as indicated.

3.03 CLEANING

- A. Content of fabric shall be submitted along with manufacturers cleaning instructions.

END OF SECTION