

**PART 1      ACOUSTICAL WALL TREATMENT – Section 09840**

**PART 2      GENERAL**

**2.1 SECTION INCLUDES:**

- 2.1.1 Acoustic Baffle Panels

**2.2 REFERENCES**

- 2.2.1 ASTM C 423 – Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2000.
- 2.2.2 ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials; 2000a.

**2.3 PERFORMANCE REQUIREMENTS**

- 2.3.1 Acoustical Absorption: Perform testing in accordance with ASTM C 423, Type A mounting method unless otherwise specified.
- 2.3.2 Flame Spread Rating: Provide all components with Class A flame spread rating when tested in accordance with ASTM E 84, unless otherwise specified.

**2.4 SUBMITTALS**

- 2.4.1 Submit under provisions of Section 01300
- 2.4.2 Product Data: Manufacturer's data sheets on each product to be used, including:
  - 2.4.2.1 Preparation instructions and recommendations
  - 2.4.2.2 Storage and handling requirements and recommendations
  - 2.4.2.3 Installation methods
  - 2.4.2.4 Independent testing agency test reports
  - 2.4.2.5 Selection Samples: For each product specified, two complete sets of color samples representing manufacturer's full range of available colors and patterns.
  - 2.4.2.6 Verification Samples: For each product specified, two samples, minimum size 16 inches (150 mm) square, representing actual product, color and patterns.

**2.5 QUALITY ASSURANCE**

- 2.5.1 Manufacturer Qualifications: Minimum 10 years of experience in producing acoustical products of the types specified herein.
- 2.5.2 Installer Qualifications: Acceptable to the manufacturer of the acoustical products being installed.
- 2.5.3 Mock-Up: Provide a mock-up for evaluation of installed appearance
  - 2.5.3.1 Install acoustical products in areas designated by Architect or Designer.
  - 2.5.3.2 Do not proceed with remaining work until Architect or Designer approves workmanship and appearance.
  - 2.5.3.3 Approved mock-up may remain as part of the work.

## 2.6 DELIVERY, STORAGE AND HANDLING

- 2.6.1 Protect acoustical products from moisture during shipment, storage and handling.
- 2.6.2 Store products in manufacturer's unopened packaging until ready for installation.
  - 2.6.2.1 Store materials flat, in dry, well-ventilated space.
  - 2.6.2.2 Do not stand panels on end.
  - 2.6.2.3 Protect edges from damage.
- 2.6.3 Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

## 2.7 PROJECT CONDITIONS

- 2.7.1 Do not begin installation of acoustical products until building has been enclosed and environmental conditions approximate those that will prevail when building is occupied.
- 2.7.2 Environmental Requirements: Do not install panels until wet work, such as concrete and plastering, is complete; the building is enclosed; and the temperature and relative humidity have stabilized at 60-80 degrees F (16 – 27 degrees C) and 40% to 50%, respectively.

## 2.8 EXTRA MATERIALS

- 2.8.1 See Section 01600 – Product Requirements, for additional provisions.
- 2.8.2 Provide extra fabric when specified.

## **PART 3 PRODUCTS**

### 3.1 MANUFACTURERS:

- 3.1.1 Acceptable Manufacturer: Acoustic Enterprises Inc., 8006 Sunrise Circle, Frederick, CO 80516-9428. Telephone (303) 774-9992 or (888) 287-4183. FAX: (303) 774-0081. Email: [acoustic@ecentral.com](mailto:acoustic@ecentral.com). Website: [www.dimensionalachoustics.com](http://www.dimensionalachoustics.com).
- 3.1.2 Substitutions: Not permitted.
- 3.1.3 Provide all acoustical products specified herein by a single manufacturer.

### 3.2 ACOUSTIC BAFFLE PANELS

- 3.2.1 Wrapped Fiberglass Baffle Panels: Acoustic Baffle Panels BP. Fiberglass core of 6-7 pcf with hardened edges, seamless finish material wrapped and bonded to back side of panels. Utilizes Patented VACU-BOND® process.
  - 3.2.1.1 Thickness: 1 inch; NRC not less than 0.80. Baffle takes two (2) each 1" panels back to back.
  - 3.2.1.2 Thickness: 2 inch; NRC not less than 1.00
  - 3.2.1.3 Size: 4' x 8' Standard. Custom sized and shaped as per drawings
  - 3.2.1.4 Finish Material: Manufacturer's standard is Guilford of Maine, Anchorage 2335
  - 3.2.1.5 Color: As selected from manufacturer's standards
  - 3.2.1.6 Color: \_\_\_\_\_

- 3.2.1.7 Edges: Square
- 3.2.1.8 Edges: Beveled (Quarter x2 or Quarter x4) or (Half x2 or Half x4) upon request
- 3.2.1.9 Corners: Square,
- 3.2.1.10 Mounting: Hanging hooks built into panel
- 3.2.1.11 Mounting: Hanging wires by others

### 3.3 ACCESSORIES

- 3.3.1 None

## **PART 4 EXECUTION**

### 4.1 EXAMINATION

- 4.1.1 Do not begin installation until substrates have been properly prepared.
- 4.1.2 If substrate preparation is the responsibility of another installer, notify Architect or Designer of unsatisfactory preparation before proceeding.

### 4.2 PREPARATION

- 4.2.1 Clean surfaces thoroughly prior to installation.
- 4.2.2 Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 4.3 INSTALLATION

- 4.3.1 Install acoustical units in accordance with manufacturer's instructions.
- 4.3.2 Adhesive Mounting: Size back of panels at 18 inch on center in both directions with thin coating of adhesive in 4 inch squares. Center adhesive dabs the size of a large egg on each sized area and press panel firmly against substrate, flattening adhesive. Block panel for not less than 24 hours until adhesive has set.
- 4.3.3 Mounting Hanger: Hanging wires by others.

### 4.4 PROTECTION

- 4.4.1 Protect installed products until completion of project.
- 4.4.2 Touch-up, repair or replace damaged products before Substantial Completion.