

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

**PART 2      GENERAL**

**2.1 SECTION INCLUDES:**

- 2.1.1 Acoustic Encapsulated Ceiling Panels

**2.2 REFERENCES**

- 2.2.1 ASTM C 423 – Standard Test Method for Sound Absorption.
- 2.2.2 ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

**2.3 PERFORMANCE REQUIREMENTS**

- 2.3.1 Acoustical Absorption: 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.

**2.4 SUBMITTALS**

- 2.4.1 Submit under provisions of Section 01300
- 2.4.2 Submit under provisions of Section 01300
- 2.4.3 Product Data: Manufacturer's data sheets on each product to be used, including:
  - 2.4.3.1 Preparation instructions and recommendations
  - 2.4.3.2 Storage and handling requirements and recommendations
  - 2.4.3.3 Installation methods
  - 2.4.3.4 Verification Sample Provided: One (1) 16" x 16" x 1" sample representing product, color and pattern for each product specified. Additional samples are charged according to size, type and fabric. These samples are manufactured for evaluation purposes.
  - 2.4.3.5 Manufacturer's standard is Washable Nubby (Web Core) backing and encapsulated with Vinyl Reinforced Foil.
  - 2.4.3.6 Mock-up panels that are actual size to the project would be charged as part of the purchase order.

**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: Must be a qualified and experienced installer.

## 2.6 DELIVERY, STORAGE AND HANDLING

- 2.6.1 Protect acoustical products from moisture.
- 2.6.2 After inspection of contents, products should remain in manufacturer's 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.

## 2.7 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% - 50%, respectively.

## 2.8 EXTRA MATERIALS

- 2.8.1 As per Architect requirements specified in Purchase Order.

# **PART 3 PRODUCTS**

## 3.1 MANUFACTURERS:

- 3.1.1 Acceptable Manufacturer: Acoustic Enterprises Inc., 7601 Miller Dr., Frederick, CO 80504. Telephone (303) 774-9992 or (888) 287-4183. FAX: (303) 774-0081. Email: [acoustic@ecentral.com](mailto:acoustic@ecentral.com). Website: [www.dimensionlacoustics.com](http://www.dimensionlacoustics.com).
- 3.1.2 Substitutions: Not permitted. This is a Patented product.
- 3.1.3 Provide all acoustical products specified herein by Acoustic Enterprises, Inc.

## 3.2 ACOUSTIC ENCAPSULATED CEILING PANELS

- 3.2.1 Encapsulated Fiberglass Ceiling Panels: Fiberglass core of 6-7 pcf with hardened edges, seamless vinyl reinforced, foil wrapped and bonded to encapsulate all sides of panels. Utilizes Patented VACU-BOND® process.
  - 3.2.1.1 Thickness: 1 inch; NRC not less than 0.90
  - 3.2.1.2 Size: Customers existing Fiberglass Ceiling Panels to be encapsulated. AEI may also manufacture new Encapsulated Fiberglass Ceiling Panels at customer's request.
  - 3.2.1.3 Size: Custom sized as per drawings
  - 3.2.1.4 Finish Material: Manufacturer's standard is Washable Nubby (Web Core) backing and encapsulated with Vinyl Reinforced Foil.
  - 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 Corners: Square

3.2.1.9 Mounting: Placed into customers existing (or new) ceiling framework

## **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 any unsatisfactory preparation before proceeding.

### **4.2 PREPARATION**

4.2.1 Clean surfaces thoroughly prior to installation.

4.2.2 Prepare surfaces 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 Installer Qualifications: Must be a qualified and experienced Installer.

### **4.4 PROTECTION**

4.4.1 Protect installed products until completion of project.