

PART 1 SOUND ABSORBING ACOUSTICAL WALL TREATMENT – Section 09840

PART 2 GENERAL

2.1 SECTION INCLUDES

- 2.1.1 Dimensional 3-D Sculpted Acoustical Wall Panel

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 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 Verification Sample Provided: One (1) 15" x 15" 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.
 - 2.4.2.5 Manufacturer's standard fabric is Guilford of Maine, Anchorage 2335.
 - 2.4.2.6 Customer Own Material (C.O.M.) fabric will be subject to Acoustic Enterprises, Inc. (AEI) approval to determine if it is appropriate for panel use. A one (1) yard sample of C.O.M. fabric to be furnished to AEI for Verification Samples.
 - 2.4.2.7 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: Acoustic Enterprises developed the technology and experience in producing the acoustical product (s) specified herein.
- 2.5.2 Installer Qualifications: Must be a qualified and experienced Installer of Acoustical Wall Panels.

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 and protect all edges from damage
 - 2.6.2.3 Protect panels from any damage.

2.7 PROJECT CONDITIONS

- 2.7.1 Do not begin installation of acoustical products until building has been enclosed and environmental conditions approximate to 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 Drive, Frederick, CO 80504. Telephone (303) 774-9992 or (888) 287-4183. FAX: (303) 774-0081. Email: acoustic@ecentral.com. Website: www.dimensionalachoustics.com.
- 3.1.2 Substitutions: Not Permitted.
- 3.1.3 Provide all acoustical products specified herein by Acoustic Enterprises, Inc.

3.2 DIMENSIONAL 3-D SCULPTED SOUND ABSORBING ACOUSTIC WALL PANELS

- 3.2.1 Fabric Wrapped Fiberglass Panels: Dimensional Acoustic Wall Panels. Fiberglass core of 6-7 pcf plus 1/8" 16 lb fiberglass with custom profiled design pattern on face, with hardened edges, seamless finish material wrapped and bonded to back side of panels. The acoustical panels are an exclusive Dimensional Acoustic Panel per architectural design and manufactured under U.S. Patent No. 8,857,565.
 - 3.2.1.1 Thickness: 1 inch; NRC 0.85
 - 3.2.1.2 Thickness: 2 inch; NRC 1.00
 - 3.2.1.3 Size: 4' x 8' Standard. Custom sized as per drawings
 - 3.2.1.4 Pattern Name & #: _____ Can be selected from the website <http://reskin.com/panels/dimensional-acoustical-panels>
 - 3.2.1.5 Finish Material: Manufacturer's standard is Guilford of Maine, Anchorage 2335
 - 3.2.1.6 Alternate Finish Material: Customer Own Material (C.O.M.) fabric

3.2.1.7 Color: Select from manufacturer's standard or alternate C.O.M.

3.2.1.8 Edge Detail:

3.2.1.8.1 Square

3.2.1.8.2 Beveled

3.2.1.9 Corners: Square

3.2.1.10 Hardware Options:

3.2.1.10.1 Impaling Clips / Angled

3.2.1.10.2 Z-Clips with resin hardened spots

3.2.1.10.3 Adhesive & Impaling Clips

3.2.1.10.4 Rotofast Anchors

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 panels as per General Contractor's provisions and specifications.

4.3.2 Installation of the Dimensional Acoustic Panel is the same as any acoustical wall panel. No special requirements for installation.

4.3.3 Installer Qualifications: Must be a qualified and experienced Installer.

4.4 PROTECTION

4.4.1 Protect installed products until completion of project.