

SECTION 09 84 13

ACOUSTICAL WALL PANELS & SOUND DIFFUSERS

PART I. GENERAL

1.1 SUMMARY

- A. This section includes wall-mounted acoustical panels and Sound Diffusers.
- B. Acoustical sound treatment shall be of type and size herein described.
- C. Manufacturer shall have a minimum of 3 years experience in the production of acoustical products.

1.2 SUBMITTALS

- A. Comply with requirements of Section 01 33 00.
- B. Submit 12" x 12" samples for each type of sound panel or diffuser required, including backing, core, facing material, and anchoring devices.

1.3 WARRANTY

- A. Provide minimum 2-year manufacturer's product warranty.

PART 2 PRODUCTS

2.1 Acoustical Wall Panels

- A. Acousti-Panels, 2" core, regular edge, manufactured by Golterman & Sabo, St. Louis, MO (800) 737-0307, or approved alternate. All panels shall consist of 2-inch thick fiberglass core, fabric-wrapped and having square edges.
- B. Fire Rating: All components shall have a Class A rating per ASTM E-84.
- C. All NRC numbers must be in accordance with ASTM C423 for Type A mounting and certifiable acoustical data as obtained by an NVLAP-approved, independent testing laboratory shall be submitted to verify if the sound absorption at specified frequencies is satisfactory for this project.

Sound absorption coefficients for 2-inch panels shall be as follows:

| | |
|-------------|------------------|
| 125Hz- .51 | 1000Hz- 1.25 |
| 250 Hz-1.01 | 2000 Hz- 1.16 |
| 500 Hz-1.24 | NRC -1.15 |

- D. Fabric is to be selected from manufacturer's standard fabrics, FR701, Style 2100, By Guilford of Maine. Fabrics shall be bonded to face and edges, and returned at the edges a minimum of 2" on the back of the panels. Manufacturer shall insure flat, wrinkle-free surface and tailored corners.

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- E. All panels shall be pre-sized from exact field dimensions and altered in field as required for proper on-location fit. Refer to Drawings for sizes and locations.
- F. Manufacturer shall provide "Concealed Multiple-Perforation Fastening Devices" (PA-Clips) as follows: 4 per 4'x4', 6 per 4'x6', 8 per 4'x8', or equal.

2.2 Sound Diffuser:

- A. Standard CD A Pyramidal Diffuser with internal absorption (4' x4') manufactured by Golterman & Ssbo, St. Louis, MO (800) 737-0307, or approved alternate. One piece construction, molded reinforced fiberglass construction.
- B. Fire Rating: All components shall have a Class A rating per ASTM E-84.
- C. Fabric is to be selected from manufacturer's standard fabrics, FR701, style 2100, by Guilford of Maine. Fabrics shall be bonded to face and edges.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Panels: Each "Concealed Multiple-Perforation Fastening Device" (PA-Clips) shall be placed on the wall with appropriate attachment screws so that it will impale the acoustical absorber approximately 6" in from each corner and approximately 6" in from each side on longer panels. Paneling adhesive is to be applied in a 3/8" bead 1-1/2" in from the edge before impaling panel on Concealed Multiple-Perforation Fastening Devices" (PA-Clips). All necessary field alterations are to be done according to manufacturer's own specific instruction and information directives.
- B. Sound Diffusers: Install in lay-in suspended ceiling grid system where shown on drawings.

END OF SECTION