

**Architect's and Engineer's Specifications for
Auralex™ Acoustics, Inc.
MetroFusor™ Brand Acoustical Diffusors**

Section 09800

Acoustical Treatment

1. General

1.1. Section Includes

- 1.1.1. Sound diffusive ceiling panels.
- 1.1.2. Sound diffusive wall panels.

1.2. Related Sections

- 1.2.1. Section 098xx – Acoustical Ceiling and Wall Panels
- 1.2.2. Section 095xx – Suspended Acoustical Ceilings: Conventional grid-supported acoustic ceilings.
- 1.2.3. Section 158xx – Air Terminal Units

1.3. References

- 1.3.1. ASTM C 423 – Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- 1.3.2. ASTM E 795 – Standard Practices for Mounting Test Specimens During Sound Absorption Tests.
- 1.3.3. AES-4id-2001 – Characterization and Measurement of Surface Scattering Uniformity.
- 1.3.4. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4. Submittals

- 1.4.1. Submit in accordance with provisions of Section 01300.
- 1.4.2. Product Data: Submit manufacturer's recommended installation instructions and documentation certifying conformance with specified performance requirements.
- 1.4.3. Shop Drawings: Submit drawings indicating layout for all areas to receive work of this section, including locations of light fixtures, ceiling diffusers and grilles. Indicate pattern of units, cut units, details and coordination requirements for work of other sections.
- 1.4.4. Samples: Submit for approval one sample of sound diffusive panel, not less than twenty-four (24) inches by twenty-four (24) inches in size and demonstrating color and texture.

1.5. Quality Assurance

- 1.5.1. Installer Qualifications: Installers shall have demonstrated experience in installation of products similar to those specified in this section. Documentation of at least five (5) previous installations of similar materials shall be provided.

1.6. Delivery, Storage and Handling

- 1.6.1. Deliver materials in manufacturer's original unopened and undamaged packages with labels legible and intact.
- 1.6.2. Store materials in unopened packages in a manner that will avoid damage from the environment and from construction operations.

1.7. Environmental Requirements

- 1.7.1. Do not begin installation of acoustical panels until building has been enclosed and environmental conditions approximate interior conditions that will prevail when building is occupied.

2. Products

2.1. Manufacturers

- 2.1.1. Provide MetroFusor™ Brand Diffusors as manufactured by Auralex Acoustics, Inc., 6853 Hillside Court, Indianapolis, Indiana 46250. Tel. (317) 842-2600. Fax: (317) 842-2760.
- 2.1.2. Substitutions are not acceptable.

2.2. Acoustical Panels

- 2.2.1. Sound Absorption: Provide panels that are certified to meet the following maximum sound absorption characteristics when tested in accordance with ASTM C 423, Type "A" mounting:

Absorption	Octave Band Center Frequency (Hz)						NRC
	125	250	500	1000	2000	4000	
MetroFusors	0.06	0.05	0.14	0.36	0.68	0.47	0.30

- 2.2.2. Fire: Provide panels that meet "Class A" or "Class 1" designation when tested in accordance with ASTM E 84: Flame spread index = 15, Smoke Developed Index ≤ 145.
- 2.2.3. Provide Auralex MetroFusor panels with total area as described in acoustical treatment design documentation.
- 2.2.4. Panel Dimensions: MetroFusor panels shall be two (2) feet wide by two (2) feet long x approximately two (2) inches deep (maximum depth).
- 2.2.5. Color: MetroFusors are a standard white expanded polystyrene plastic. Painting is acceptable with latex paints and shall be specified by the Architect/Owner. Paint shall be tested on a small area of the back of one (1) panel to ensure usability.

2.3. Mounting Components

- 2.3.1. Provide materials necessary for mounting as described in acoustical treatment design documentation.

3. Execution

3.1. Examination

- 3.1.1. Examine surfaces to receive work of this section. Do not begin installation until unsatisfactory conditions have been corrected. Mounting surfaces shall be smooth, clean and dry. Drywall surfaces, if not painted, shall be sanded and primed.

3.2. Installation

- 3.2.1. Install panels on walls and ceilings in locations and in patterns indicated on the drawings.
- 3.2.2. Install each unit as indicated on shop drawings and in accordance with manufacturer's printed instructions, using approved adhesive if applicable.
- 3.2.3. Installation in acoustical ceiling grids shall meet appropriate codes and specifications.

3.3. Adjust and Clean

- 3.3.1. After installation of acoustical panels, clean all dirty surfaces, using cleaning materials and methods acceptable to manufacturer.
- 3.3.2. Replace damaged components as directed by the Architect.
- 3.3.3. Remove debris caused by work of this section on a daily basis. At completion of acoustical panel installation, remove all crates, cartons, packages and debris from the project site.

End of Section