



Acoustic Lay-in Panel [ALP]

Type-1 Steel

3-PART SPEC

SECTION 09800 ACOUSTICAL TREATMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Sound absorptive lay-in ceiling panels.
- B. Miscellaneous accessories.

1.2 RELATED SECTIONS

- A. Section 09511 - Suspended Acoustical Ceilings: Conventional grid-supported acoustic ceilings.
- B. Section 15840 - Air Terminal Units.
- C. Section 16510 - Interior Luminaires.

1.3 REFERENCES

- A. ASTM C 423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2000.
- B. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2000.
- C. ASTM E 795 - Standard Practices for Mounting Test Specimens during Sound Absorption Tests; 2000.

1.4 SUBMITTALS

- A. Submit manufacturer's recommended installation instructions and documentation certifying conformance with specified performance requirements.
- B. 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.
- C. Samples: Submit for approval two samples of sound absorptive panel and suspension systems, not less than 12 inches (305 mm) by 18 inches (457 mm) in size and demonstrating colors, textures, and finishes that will be provided in the finished work.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Installers shall have demonstrated experience in assembly and

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installation of products similar to those specified in this section.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original unopened and undamaged packages with labels legible and intact.
- B. Store materials in unopened packages in a manner that will avoid damage from the environment and from construction operations.
- C. Handle in accordance with manufacturer's instructions.

1.7 ENVIRONMENTAL REQUIREMENTS

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

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Eckel Noise Control Technologies, with manufacturing facilities in the USA & Canada:

Address: 35 Allison Ave., Morrisburg, ON K0C 1X0 Canada

Email: sales@eckelacousticpanels.com

Web: <https://eckelacousticpanels.com>

- B. Requests for substitutions will be considered.

2.2 LAY-IN ACOUSTIC PANELS

- A. Acoustic Panels: Eckel Acoustic Lay-In Panels.
 - 1. Total Area: _____.
 - 2. Thickness: 2 inches (51mm)
 - 3. Width: 23 inches (584 mm). Fits standard 2 foot (610 mm) by 2 foot (610 mm) suspended ceiling grid.
 - 4. Length: 23 inches or 48 inches (1219 mm) Fits standard 2 foot (610 mm) by 2 foot (610 mm) or 2 foot (610 mm) by 4 foot (1219 mm) suspended ceiling grid.
- B. Panel Performance:
 - 1. Sound Absorption: Provide panels that are certified to meet the following minimum sound absorption for a 24 inch by 48 inch (610 by 1219 mm) panel when tested in accordance with ASTM C 423 and E 795:
 - a. 250 Hz: 7.92 sabins.
 - b. 500 Hz: 8.08 sabins.
 - c. 1000 Hz: 9.28 sabins.
 - d. 2000 Hz: 9.52 sabins.
 - e. 4000 Hz: 10.64 sabins.
 - f. NRC: 0.99, minimum.
 - 2. Fire: Provide panels that demonstrate the following performance when tested in accordance with ASTM E 84:
 - a. Flame Spread: 10 maximum.

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- b. Smoke Density: 10 maximum.
- C. Panel Construction: Steel.
 - 1. Facings: 22 gage (0.076 mm) electrogalvanized steel sheet, perforated with an open area of 23 percent.
 - 2. Finish: Polyurethane enamel paint; factory applied.
 - 3. Color: White.
- D. Acoustical Insulation: 2 inch (50 mm) thick, fine fibered, fibrous glass, having a density of not less than 1.5 pounds per cubic foot (24 kg/cubic m), encapsulated in a 1.5 mil (0.04 mm) flame guard polyethylene.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to receive work of this section. Do not begin installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install panels on walls and ceilings in locations and in patterns indicated on the drawings.
- B. Install each unit as indicated on Architect's drawings and in accordance with manufacturer's printed instructions, using approved anchors and fasteners.

3.3 ADJUST AND CLEAN

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

END OF SECTION