

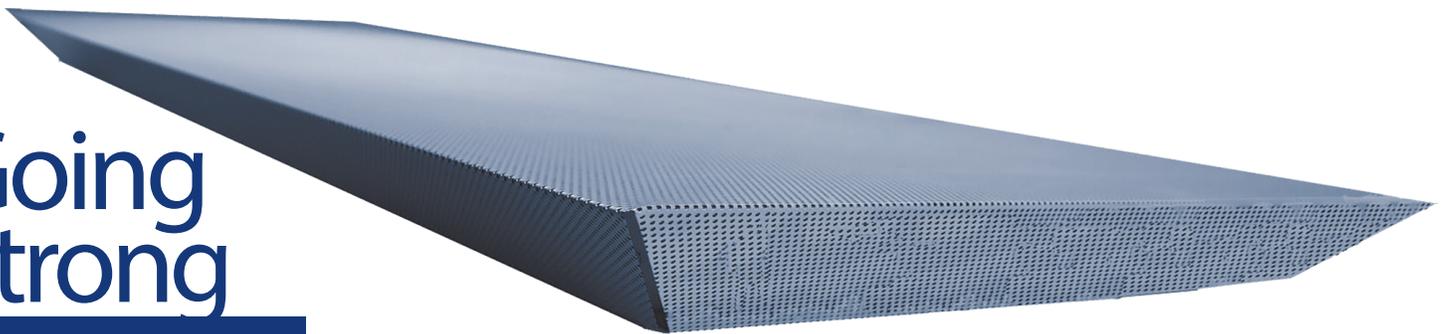
ECKEL

NOISE CONTROL TECHNOLOGIES

Standard & Custom Engineered Solutions

Reverberation & Noise Control for
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WWTPs, Industrial Settings
Restaurants & more...

Acoustic
Panels
Spec Sheets
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Aluminum Delta Acoustic Panels

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Section 09511, Section 15840, Section 16510 | ASTM C 423, ASTM E 84, ASTM E 795

ISO 9001:2015 & ISO 14001:2015

Noise + Reverb Control

Delta Acoustic Panel

Easy to install, Delta Acoustic Panels (DAPs) effectively and efficiently absorb reverberation and reduce noise in cavernous spaces — from restaurants to libraries, from theatres to recording studios and broadcast facilities. These durable and versatile panels increase the intelligibility of speech; mitigate intolerable auditory conditions; and decrease the risk of harm from exposure to excessive noise.

Standard Features

- ▶ **Panel Thickness:** 2 3/4" (70 mm)
- ▶ **Width:** 24" (610 mm)
- ▶ **Length:** 88" (2235 mm)
- ▶ **Average Weight:**
24" x 42" (610mm x 610mm) 6lb/3kg
24" x 88" (762mm x 2235mm) 12lb/5kg
- ▶ **Panel Construction:** Aluminum
- ▶ **Facings:** .032 aluminum sheet, perforated with 3/32" (2 mm) holes on 3/16" (4.8 mm) staggered centers. Sides and end of panel with 135 degree returned side and edge construction to create an "unrevealed edge"
- ▶ **Framing:** 20ga (0.9 mm) electrogalvanized steel, angle mounting assembly pre punched and secured with #10 sheet metal screws for flush mount.
- ▶ **Brackets:** Provide two 20ga (0.9 mm) steel angle mounting brackets (standard for flush mount) per panel for attachment to wall and ceilings or 4ga (1.3mm) steel brackets for 4" (102mm) Space Mount
- ▶ **Finish:** Polyurethane enamel paint; factory applied
- ▶ **Color:** White, Other colors available
- ▶ **Acoustical Insulation:** 2" (50 mm) thick, fine fibred, fibrous glass, having a density of not less than 1.5 pounds per cubic foot (24 kg/cubic m), encapsulated in a 1.5 to 2 mil (0.04 to 0.05 mm) flame guard polyethylene
- ▶ **Anchors & Fasteners:** #10-3/4" (19mm) self tapping sheet metal screws to attach mounting angles to the panels, cadmium plated for steel panels, stainless steel for aluminum panels; corrosion-resistant anchors for fastening brackets to substrate, as recommended by panel manufacturer and approved by Architect.

Panel Performance

- ▶ **Sound Absorption:** Panels are certified to meet the following minimum sound absorption for a 24" x 88" (610mm x 2235mm) panel, encapsulated in a 2.0 mil (0.05 mm) flame guard polyethylene, when tested in accordance with ASTM C 423 and E 795:

Flush Mount	4" Space Mount
▶ 125 Hz: 4.52 sabins	▶ 5.27 sabins
▶ 250 Hz: 11.6 sabins	▶ 12.7 sabins
▶ 500 Hz: 11.7 sabins	▶ 21.7 sabins
▶ 1000 Hz: 18.3 sabins	▶ 18.7 sabins
▶ 2000 Hz: 13.2 sabins	▶ 16.1 sabins
▶ 4000 Hz: 9.02 sabins	▶ 10.9 sabins
▶ NRC: 0.99, minimum	▶ 0.99, minimum

- ▶ **Fire:** Tested in accordance with ASTM E 84
- ▶ **Flame Spread:** 10 maximum
- ▶ **Smoke Density:** 10 maximum

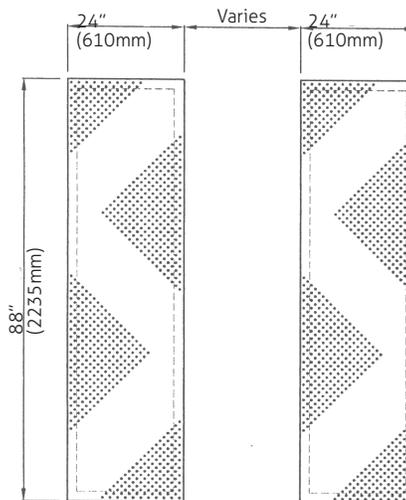
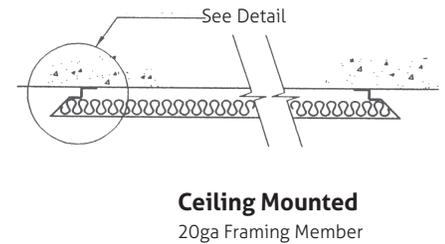
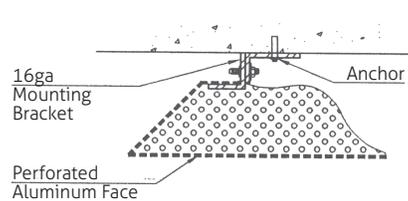
Acoustical Performance

Sound absorption expressed in Sabins per Panel.

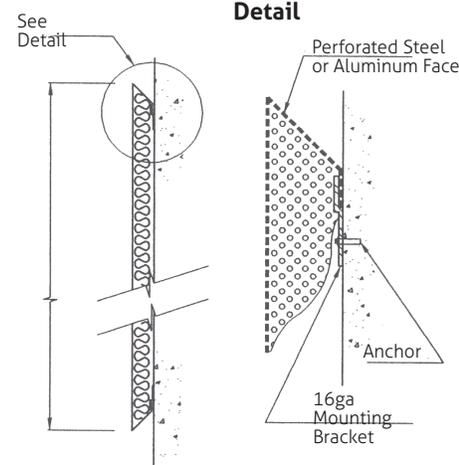
Frequency	Flush Mount	4" (102mm) Space Mount
125 Hz	4.52	5.27
250 Hz	11.55	12.69
500 Hz	11.65	21.71
1000 Hz	18.32	18.77
2000 Hz	13.19	16.08
4000 Hz	9.02	10.93
NRC	0.99, minimum	0.99, minimum

Average sound absorption coefficient. Detailed architect specifications available from Eckel Noise Control Technologies or visit www.eckelacousticpanels.com.

DAP .032 Aluminum



Panel Elevation



Wall Mounted Flush

- EXAMINATION:** Examine surfaces to receive work. Do not begin installation until unsatisfactory conditions have been corrected.
- INSTALLATION:** Install panels on walls and ceilings in locations and in patterns indicated on drawings. Install each unit as indicated on Architect's drawings and in accordance with manufacturer's printed instructions, using approved anchors and fasteners.
- ADJUST & CLEAN:** 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.
- Remove debris caused by work on a daily basis. At completion of acoustic panel installation, remove all crates, cartons, packages, and debris from the project site.