

ECKEL

NOISE CONTROL TECHNOLOGIES

Standard & Custom Engineered Solutions

Reverberation & Noise Control for
Education & Learning Environments
Colleges, Classrooms, Cafeterias
Hallways, Music Practice
& more...

Acoustic
Panels
Spec Sheets
2019
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**Going
Strong
65+**

Vital to Industry,
Communication,
Health & Safety
For 65+ Years

Architectural Noise Control Panel Systems

Learning Functional Panels Type 2 (4"/102mm)

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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

LFP Panel Type 2 (4"/102mm)

Easy to install, Acoustic Panels effectively and efficiently absorb reverberation and reduce noise in cavernous spaces — from classrooms and hallways to music practice rooms and libraries - these durable and versatile panels increase the intelligibility of speech; mitigate intolerable auditory conditions; and decrease the risk of distraction from exposure to excessive noise.

Standard Features

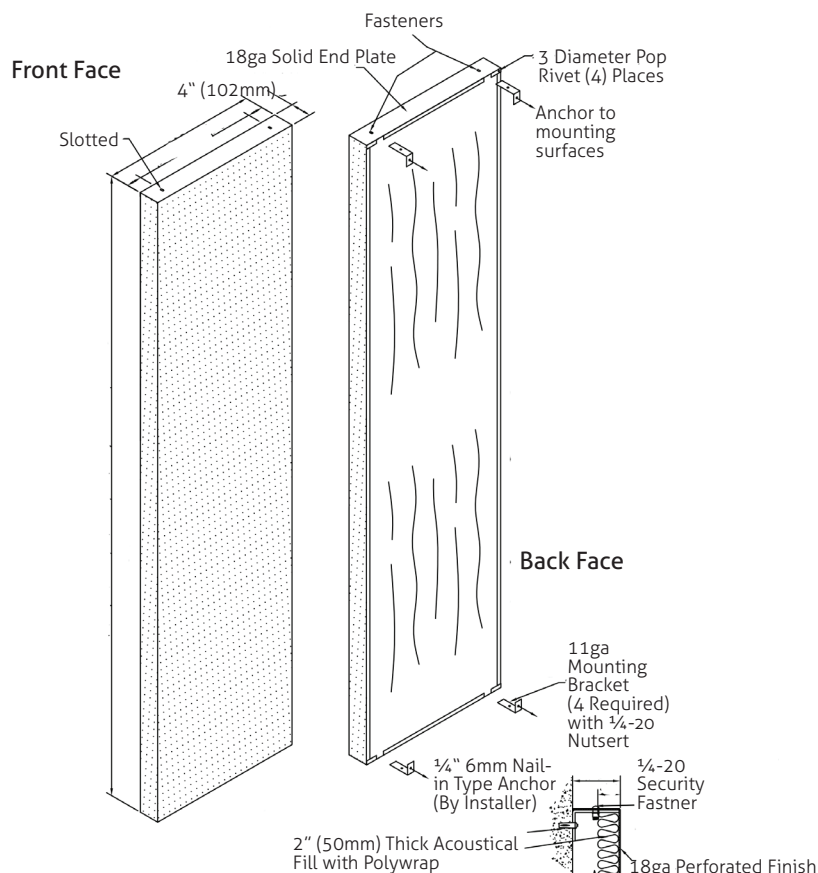
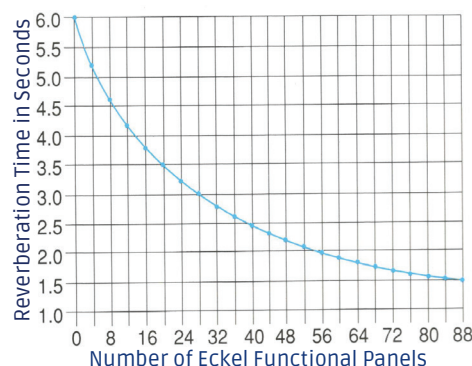
- ▶ **Panel Size:** 4" (102 mm)
- ▶ **Width:** 30" (760mm)
- ▶ **Panel Construction:** Steel, flat facing, *formed end
- ▶ **Facings:** 18ga (1.02mm) electrogalvanized steel sheet, perforated with $\frac{3}{32}$ " (2mm) holes on $\frac{3}{16}$ " (4.8 mm) staggered centers.
- ▶ **Framing:** 20ga (0.9 mm) electrogalvanized steel, channel shaped; supply two 1/4-20" threaded inserts for each framing member for attachment of panel mounting brackets.
- ▶ **Brackets:** Provide four 11ga (3mm) steel brackets per unit for attachment to walls and ceilings, providing 4" (100 mm) of clearance between back of panel and mounting surface
- ▶ **Finish:** Polyurethane enamel paint; factory applied
- ▶ **Color:** White, , Other colors available
- ▶ **Acoustical Insulation:** 4" (102 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:** $\frac{1}{4}$ " (6 mm)-20 x 1" (25 mm) long bolts to attach mounting brackets to the panels, cadmium plated for steel panels, stainless steel for aluminium panels; corrosion-resistant anchors for fastening brackets to substrate, as recommended by panel manufacturer and approved by Architect.

Panel Performance

- ▶ **Sound Absorption:** Provide panels that are certified to meet the following minimum sound absorption for a 30 inch x 120 inch (760 by 3050 mm) standard panel, when tested in accordance with ASTM C 423 and E 795:
- ▶ **125 Hz:** 0.66
- ▶ **250 Hz:** 1.03
- ▶ **500 Hz:** 1.11
- ▶ **1000 Hz:** 1.01
- ▶ **2000 Hz:** 0.91
- ▶ **4000 Hz:** 0.76
- ▶ **NRC:** 0.99, minimum.
- ▶ **Fire:** Tested in accordance with ASTM E 84
- ▶ **Flame Spread:** 10 maximum
- ▶ **Smoke Density:** 10 maximum

Reverberation Reduction

Reduction in Room Reverberation Time. Sampling typical room treatment with 10 feet of EFP panels



DELIVERY, STORAGE & HANDLING: Deliver materials in manufacturer's original unopened and undamaged packages with labels legible and intact. Store materials in unopened packages in a manner that will avoid damage from the environment and from construction operations. Handle in accordance with manufacturer's instructions.

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. 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.