

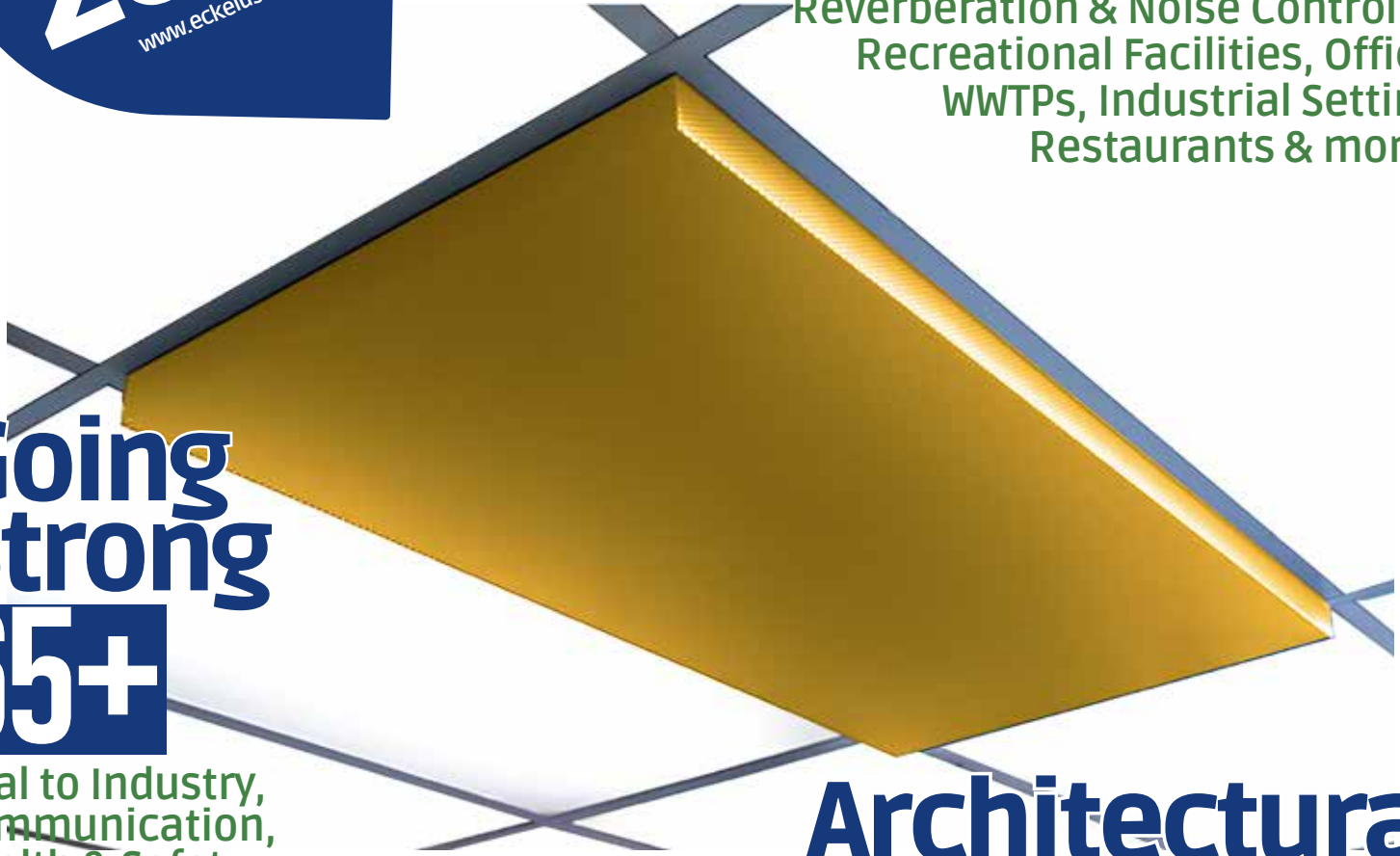
ECKEL

NOISE CONTROL TECHNOLOGIES



Standard & Custom Engineered Solutions

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



Going Strong
65+

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

Architectural Noise Control Panel Systems

Acoustic Lay-in Panels

Toll-free 1-800-563-3574 | International +1-978-772-0840 | www.eckelusa.com
Section 09511, Section 15840, Section 16510 | ASTM C 423, ASTM E 84, ASTM E 795
ISO 9001:2015 & ISO 14001:2015

Reverberation Control

Acoustic Lay-in Panels (ALPs)

Easy to install, Acoustic Panels effectively and efficiently absorb reverberation and reduce noise in cavernous spaces – from WWTP to libraries, from heavy industry to recreational 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" (51mm)
- ▶ **Width:** 23" (584 mm). Fits standard 2' (610 mm) wide suspended ceiling grid
- ▶ **Length:** 23" (584 mm) or 47" (1194 mm), Fits standard 2' (610 mm) or 4' (1219 mm) length suspended ceiling grid.
- ▶ **Panel Construction:** Steel
- ▶ **Facings:** 22ga (0.076 mm) electrogalvanized steel sheet, perforated with an open area of 23%.
- ▶ **Brackets:** Provide four 11ga (3 mm) 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
- ▶ **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 mil (0.04 mm) flame guard polyethylene.

Panel Performance

- ▶ **Sound Absorption:** Provide panels that are certified to meet the following minimum sound absorption for a 24" x 48" (610mm x 1219mm) panel, encapsulated in a 2.0 mil (0.05 mm) flame guard polyethylene, when tested in accordance with ASTM C 423 and E 795:
 - ▶ **125 Hz:** 10.1 sabins.
 - ▶ **250 Hz:** 7.92 sabins.
 - ▶ **500 Hz:** 8.08 sabins.
 - ▶ **1000 Hz:** 9.28 sabins.
 - ▶ **2000 Hz:** 9.52 sabins.
 - ▶ **4000 Hz:** 10.6 sabins.
 - ▶ **NRC:** .99, minimum.
- ▶ **Fire:** Tested in accordance with ASTM E 84
- ▶ **Flame Spread:** 10 maximum
- ▶ **Smoke Density:** 10 maximum

Acoustical Performance

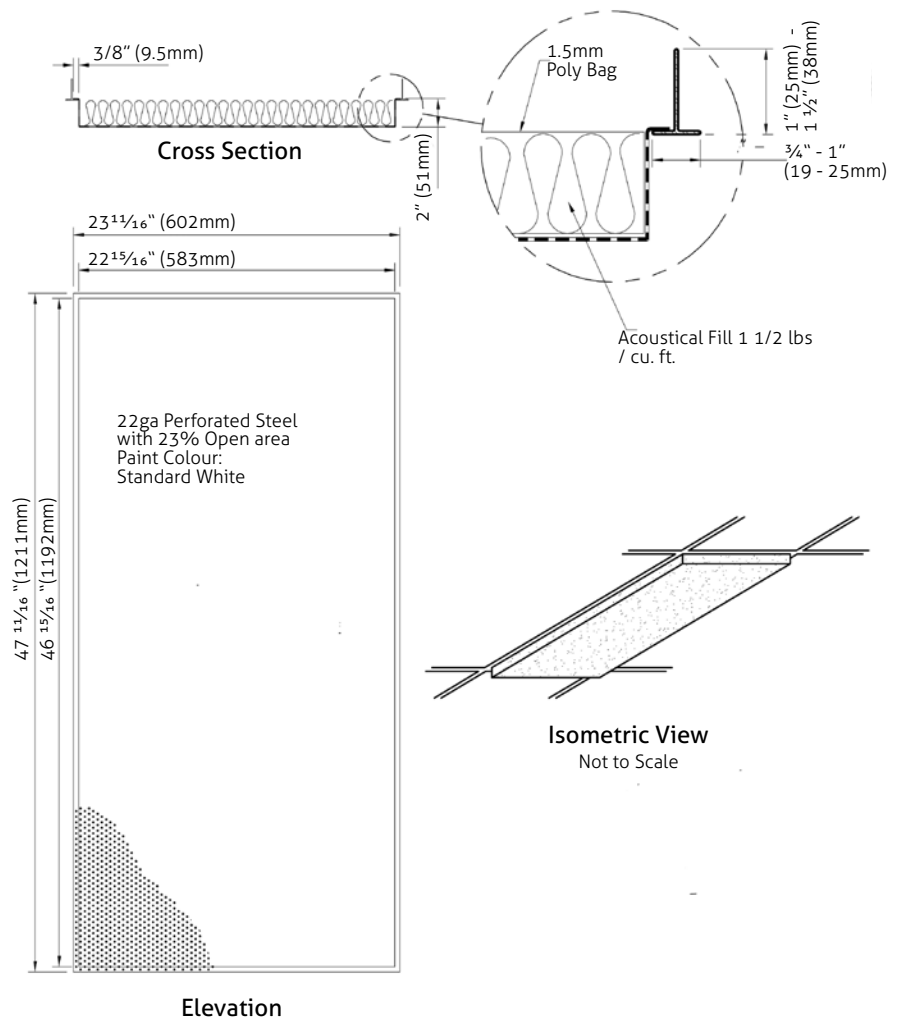
Sound absorption expressed in Sabins per Panel.

Frequency	Absorption Coefficient	Sabins per Unit
125 Hz	1.26	10.1
250 Hz	.99	7.9
500 Hz	1.01	8.1
1000 Hz	1.16	9.3
2000 Hz	1.19	9.5
4000 Hz	1.13	10.6
NRC	.99, minimum	

Frequency	Conventional Ceiling	Ceiling with 50% ALPs
250 Hz	.36	.71
500 Hz	.54	.81
1000 Hz	.79	1.00
2000 Hz	.89	1.07
4000 Hz	.82	1.38
NRC	.65	.90

Tested at Cedar Knolls Acoustical Laboratories. Results available upon request.

Average sound absorption coefficient. Detailed architect specifications available from Eckel Noise Control Technologies (www.eckelusa.com).



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.