

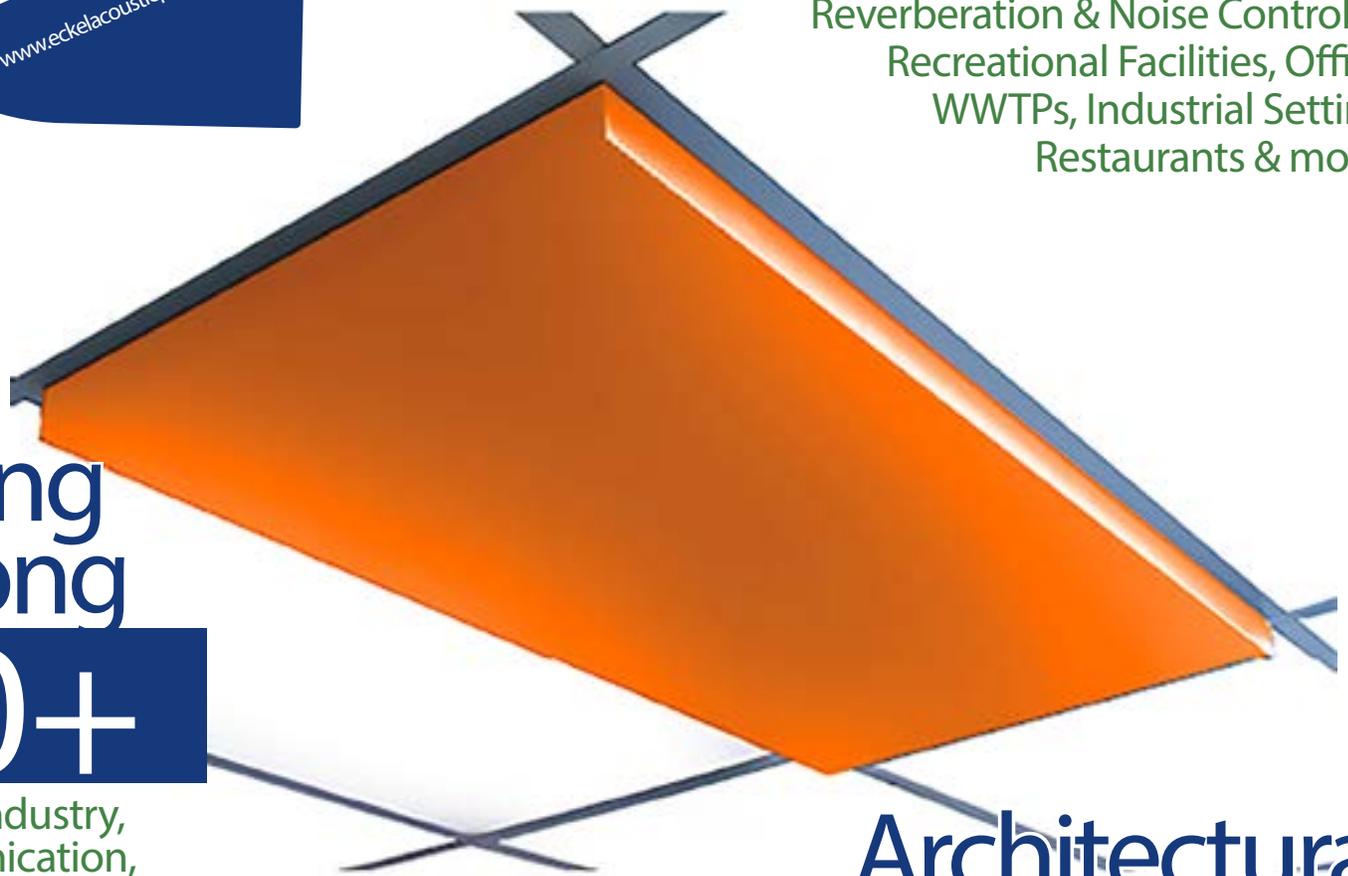
ECKEL

NOISE CONTROL TECHNOLOGIES

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Steel Acoustic Lay-in 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

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.

Acoustical Performance

Sound absorption expressed in Sabins per Panel.

Frequency	Absorption Coefficient	Sabins per Unit
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, min.

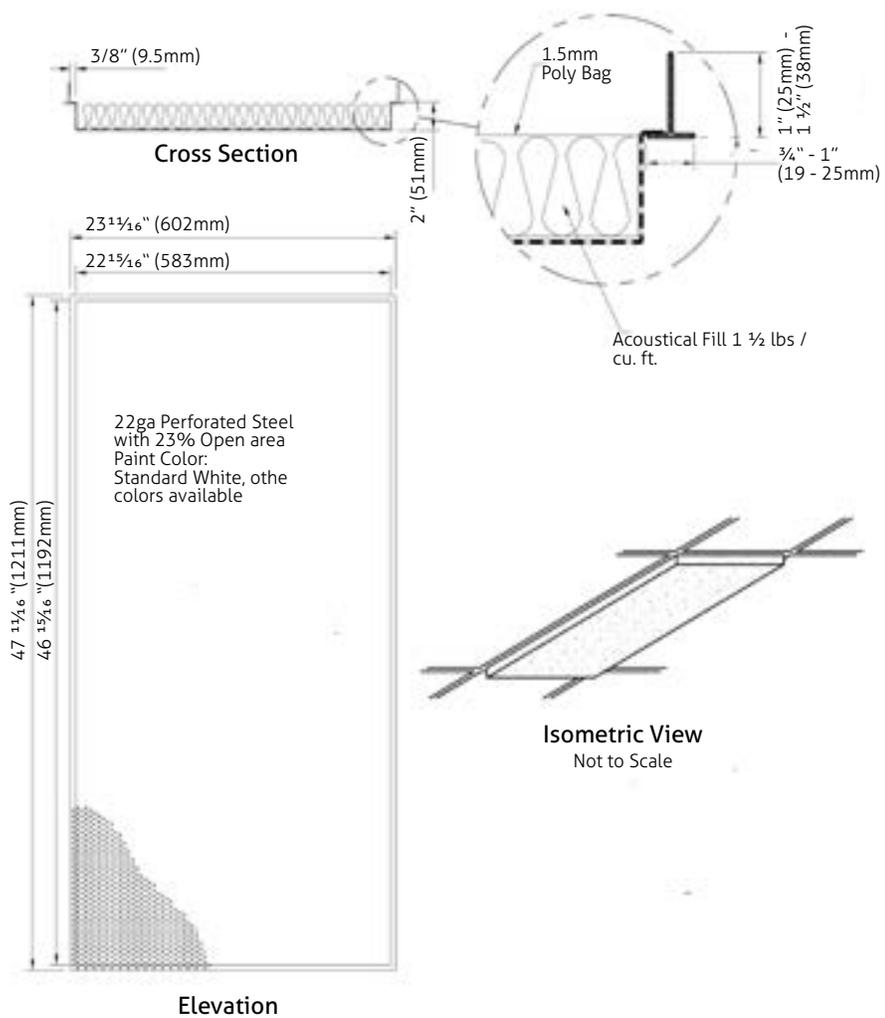
Average sound absorption coefficient. Detailed architect specifications available from Eckel Noise Control Technologies or visit www.eckelacousticpanels.com.

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.
- ▶ **Average Weight:**
23" x 23" (584mm x 584mm) 7lb/3kg
30" x 47" (762mm x 1194mm) 13lb/6kg
- ▶ **Panel Construction:** Steel
- ▶ **Facings:** 22ga (0.076 mm) electrogalvanized steel sheet, perforated with an open area of 23%.
- ▶ **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 mil (0.04 mm) flame guard polyethylene.

Panel Performance

- ▶ **Sound Absorption:** Panels 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:
- ▶ **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:** 0.99, minimum.
- ▶ **Fire:** Tested in accordance with ASTM E 84
- ▶ **Flame Spread:** 10 maximum
- ▶ **Smoke Density:** 10 maximum



EXAMINATION: Examine surfaces to receive work. Do not begin installation until unsatisfactory conditions have been corrected.

INSTALLATION: Install panels on 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.

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.