ECKEL

NOISE CONTROL TECHNOLOGIES

Acoustic Panels Spec Sheets
2026
www.eckelacousticpanels.com

Standard & Custom Engineered Solutions

Reverberation & Noise Control for Technology Environments, High Security & Correctional Facilities & more...

Going Strong 70+

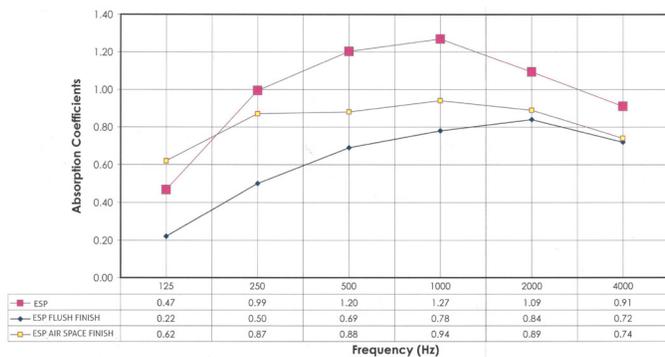Vital to Industry, Communication, Health & Safety For 65+ Years

Architectural Noise Control Panel Systems

Noise + Reverb Control

Eckel Security Panel (ESP)

Simple to install, Eckel Correctional Panels effectively and efficiently absorb reverberation & reduce noise in High Security Facilities — from technology hubs to server and exhaust rooms. Durable and versatile Eckel acoustic panels increase the intelligibility of speech; mitigate intolerable auditory conditions; and decrease the risk of personel harm & distraction from excessive exposure to noise.

Acoustical Performance

Frequency (Hz)	125	250	500	1000	2000	4000
ESP	0.47	0.99	1.20	1.27	1.09	0.91
ESP FLUSH FINISH	0.22	0.50	0.69	0.78	0.84	0.72
ESP AIR SPACE FINISH	0.62	0.87	0.88	0.94	0.89	0.74

Standard Features

- **ESP Type 2:** Formed end style panels with formed perforated ends.
- **Thickness:** 2 ⅛" (54 mm)
- **Width:** 18" (457 mm)
- **Length:** 90" (2286 mm)
- **Average Weight:**
  18" x 42" (457mm x 1067mm) 18lb/8kg
  18" x 54" (457mm x 1372mm) 22lb/10kg
  18" x 66" (457mm x 1676mm) 27lb/13kg
  18" x 90" (457mm x 2286mm) 37lb/17kg
- **Panel Construction:** 16ga Steel, Capped ends
- **Facings:** 16ga (1.5mm) zinc coated steel, perforated with ³⁄₃₂" (2mm) holes on ³⁄₁₆" (4.8mm) staggered centers.
- **Brackets:** Four 11ga (3 mm) mounting angles with each panel, with ¼" (6mm) -20 blind threaded inserts for each angle.
- **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.
- **Anchors & Fasteners:** Attach panels to mounting angles with ¼" (6mm)-20 button head socket security cap screws made of 18-8 stainless stee
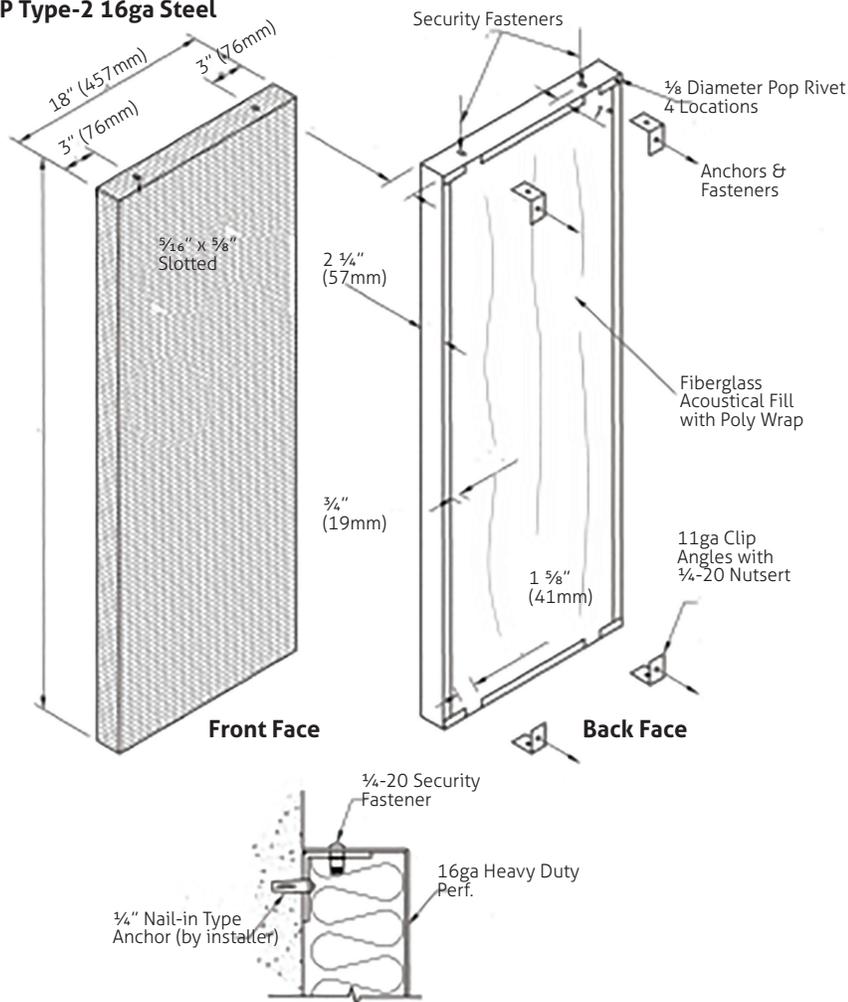
Panel Performance

- **Sound Absorption:** Panels are certified to meet the following minimum sound absorption for a 18" x 96" (460mm x 2440mm) panel, encapsulated in a 2 mil (0.05mm) flame guard polyethylene, when tested in accordance with ASTM C 423.

  - **125 Hz:** 4.6 sabins.
  - **250 Hz:** 9.6 sabins.
  - **500 Hz:** 15.2 sabins.
  - **1000 Hz:** 14.5 sabins.
  - **2000 Hz:** 12.6 sabins.
  - **4000 Hz:** 11.1 sabins.

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

ESP Type-2 16ga Steel

Security Fasteners
18" (457mm)
3" (76mm)
3" (76mm)
⅛ Diameter Pop Rivet 4 Locations
Anchors & Fasteners
⁵⁄₁₆" x ⅝" Slotted
2 ¼" (57mm)
¾" (19mm)
1 ⅝" (41mm)
Fiberglass Acoustical Fill with Poly Wrap
11ga Clip Angles with ¼-20 Nutsert
Front Face
Back Face

¼-20 Security Fastener
16ga Heavy Duty Perf.
¼" Nail-in Type Anchor (by installer)

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.

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