

ECKEL

NOISE CONTROL TECHNOLOGIES



Standard & Custom Engineered Solutions

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

**Going Strong
65+**

Vital to Security
Communication
Health & Safety
For 65+ Years

Architectural Noise Control Panel Systems

Steel Eckel Security Panels Type 2

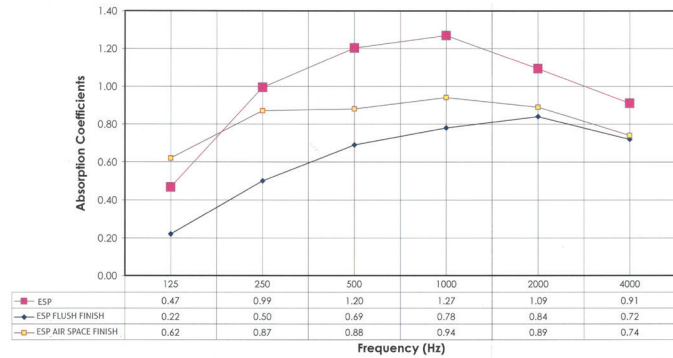
Toll-free 1-800-563-3574 | International +1-613-543-2967 | www.eckelacousticpanels.com
Section 09511, Section 15840, Section 16510 | ASTM C 423, ASTM E 84, ASTM E 795
ISO 9001:2015 & ISO 14001:2015

Noise + Reverb Control

Eckel Security Panel (ESP)

Simple to install, Eckel Correctional Panels effectively and efficiently reduce or control reverberation and 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 personnel harm & distraction from excessive exposure to noise.

Acoustical Performance



Standard Features

- ▶ **ESP Type 2:** Formed end style panels with formed perforated ends.
- ▶ **Thickness:** 2 3/8" (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 3/4" (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 3/4" (6mm)-20 button head socket security cap screws made of 18-8 stainless steel

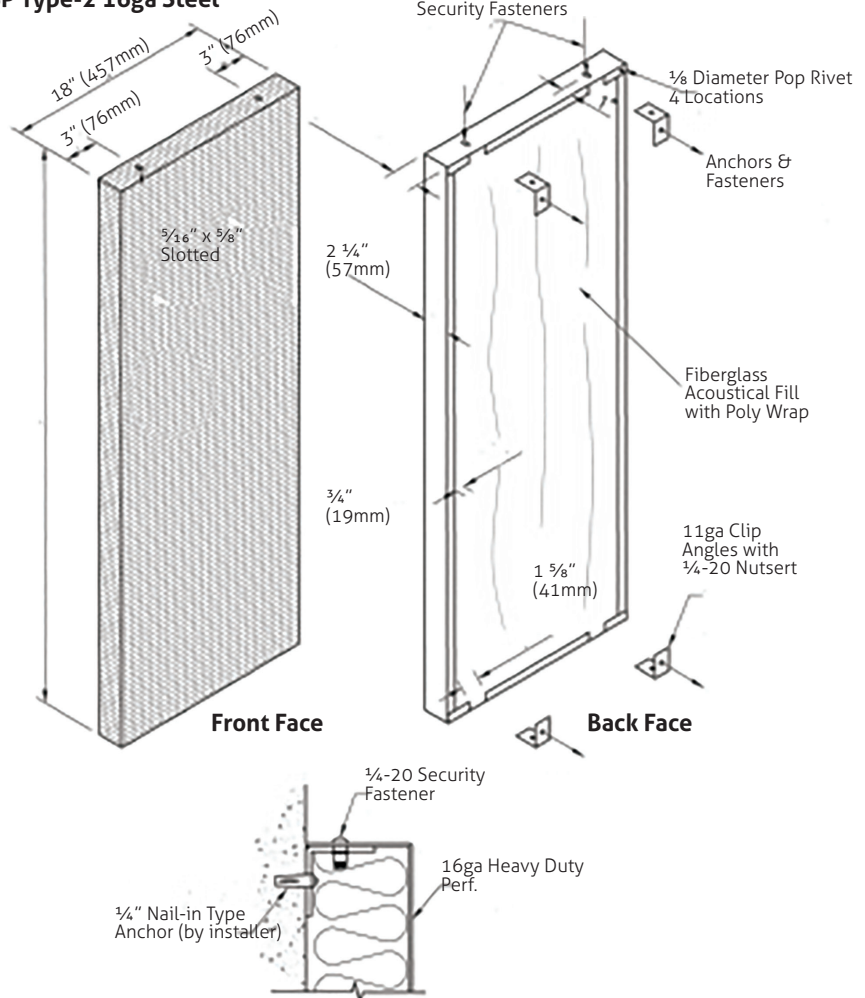
Panel Performance

- ▶ **Sound Absorption:** Panels are certified to meet the following minimum sound absorption for a 18" x 90" (460mm x 2286mm) 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



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.