ECKEL

NOISE CONTROL TECHNOLOGIES

Acoustic Panels Spec Sheets 2019
www.eckelacousticpanels.com

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

Aluminum Eckel Functional Panels Type 3

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

EFP Panel Type 3

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 Size:** 2 ¾" (70 mm) "V" ridged facing.
▶ **Width:** 30" (760 mm).
▶ **Average Weight:**
   30" x 48" (762mm x 1219mm) 10lb/4kg
   30" x 60" (762mm x 1524mm) 11lb/5kg
   30" x 72" (762mm x 1829mm) 13lb/6kg
   30" x 96" (762mm x 2438mm) 17lb/8kg
   30" x 120" (762mm x 3048mm) 21lb/10kg
▶ **Panel Construction:** Aluminum
▶ **Facings:** 0.032" (0.8 mm) aluminum sheet, perforated with ³⁄₃₂" (2mm) holes on ³⁄₁₆" (4.8mm) staggered centers; V-ridged on 6" (150 mm) centers to a depth of 2-¾" (70mm).
▶ **Framing:** ¹⁄₁₆" (1.6 mm) aluminum, channel shaped; supply two ¼-20" threaded inserts for each framing member for attachment of panel mounting brackets.
▶ **Brackets:** Provide four 11 gage (3mm) Type 316 stainless steel brackets per unit for attachment to walls and ceilings, providing 4" (100 mm) of clearance between back of panel and mounting surface; Other bracket lengths available
▶ **Finish:** Unpainted/uncoated mill finish
▶ **Color:** Unpainted
▶ **Acoustical Insulation:** 2" (50mm) thick, fine fibered, fibrous glass, having a density of not less than 1.5 pounds per cubic foot (24kg/cubic m), encapsulated in a 1.5 to 2 mil (0.04mm to 0.05mm) flame guard polyethylene.
▶ **Anchors & Fasteners:** ¼" (6 mm)-20 by 1" (25 mm) long bolts to attach mounting brackets to the panels, cadmium plated for steel panels, stainless steel for aluminum panels; corrosion-resistant anchors for fastening brackets to substrate, as recommended by panel manufacturer and approved by Architect.

Panel Performance

▶ **Sound Absorption:** Panels are certified to meet the following minimum sound absorption for a 30" x 120" (760mm x 3050mm) panel, encapsulated in a 2.0 mil (0.05mm) flame guard polyethylene, when tested in accordance with ASTM C 423 and E 795:

▶ **125 Hz:** 6.2 sabins.
▶ **250 Hz:** 20.5 sabins.
▶ **500 Hz:** 35.2 sabins.
▶ **1000 Hz:** 34.5 sabins.
▶ **2000 Hz:** 31.5 sabins.
▶ **4000 Hz:** 33.1 sabins.
▶ **NRC:** 0.99, minimum.

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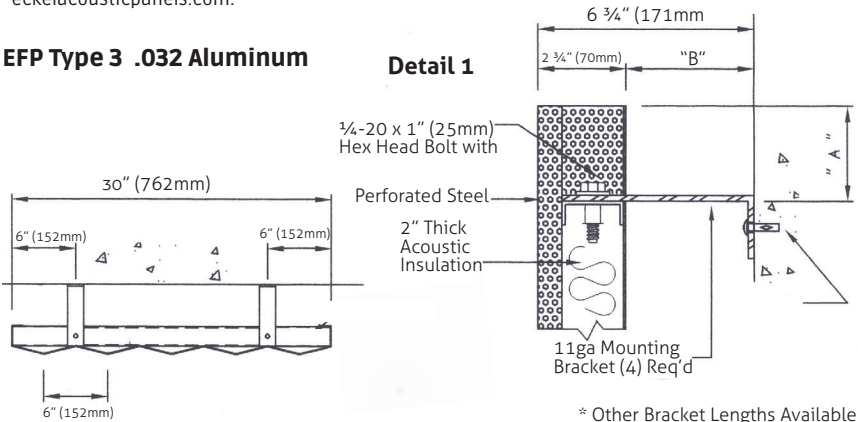▶ **Flame Spread:** 10 maximum
▶ **Smoke Density:** 10 maximum

Acoustical Performance
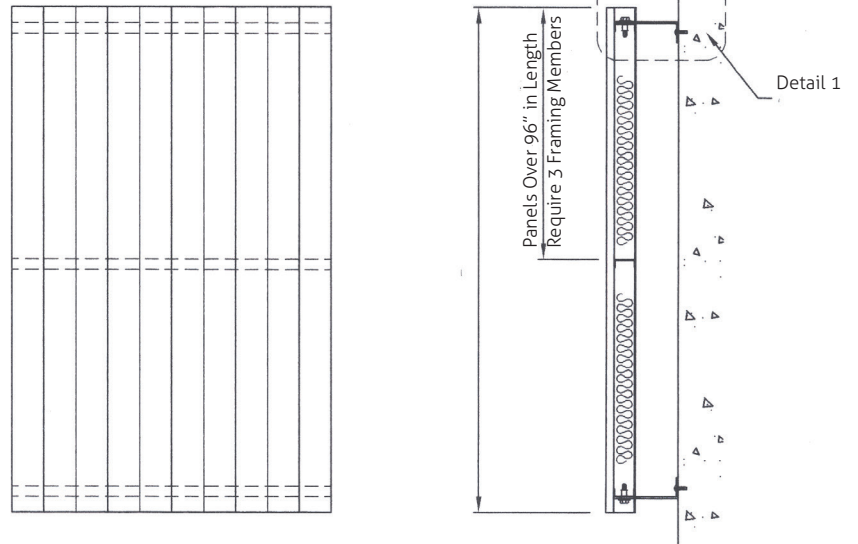
Sound absorption expressed in Sabins per Panel.

Freq. (Hz)	Size Sample 30" (762mm) Width x Length				
	Applicable Length				
	4' (1.2m)	5' (1.5m)	6' (1.8m)	8' (2.4m)	10' (3.0m)
125	03.0	03.8	04.5	06.9	06.2
250	08.5	10.6	12.7	17.8	20.5
500	14.9	18.7	22.4	28.4	35.2
1000	14.5	18.2	21.8	27.3	34.5
2000	13.2	16.5	19.8	25.5	31.5
4000	13.8	17.3	20.7	27.9	33.1
NRC	12.8	16.0	19.2	24.8	0.99 (min.)

Average sound absorption coefficient based on standard sound absorbing material per ASTM C-423. 120"/3048mm performance noted in Standard Features. Detailed architect specifications available from Eckel Noise Control Technologies or visit www.eckelacousticpanels.com.

EFP Type 3 .032 Aluminum **Detail 1**

¼-20 x 1" (25mm) Hex Head Bolt with
Perforated Steel
2" Thick Acoustic Insulation
11ga Mounting Bracket (4) Req'd

* Other Bracket Lengths Available

Panel Elevation

Panels Over 96" in Length Require 3 Framing Members

Detail 1

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.

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