

# ECKEL

NOISE CONTROL TECHNOLOGIES

## Standard & Custom Engineered Solutions

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

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Spec Sheets  
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## Architectural Noise Control Panel Systems

### Eckel Functional Panels Type 2 Heavy Duty

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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

## EFP Panel Type 2 Heavy Duty

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 inches (70 mm) "V" ridged facing
- ▶ **Width:** 30 inches (760 mm)
- ▶ **Average Weight:**  
30" x 48" (762mm x 1219mm) 25lb/12kg  
30" x 60" (762mm x 1524mm) 30lb/14kg  
30" x 72" (762mm x 1829mm) 36lb/17kg  
30" x 96" (762mm x 2438mm) 49lb/22kg  
30" x 120" (762mm x 3048mm) 60lb/27kg
- ▶ **Panel Construction:** Steel
- ▶ **Facings:** 18ga (1.31 mm) electrogalvanized steel sheet, perforated with ¾" (2mm) holes on ¾" (4.8mm) staggered centers; V-ridged on 6" (150mm) centers to a depth of 2-¾" (70mm).
- ▶ **Framing:** 20ga (0.9mm) electrogalvanized steel, channel shaped; supply two ¾"-20" threaded inserts for each framing member for attachment of panel mounting brackets.
- ▶ **Brackets:** Provide four 11ga (3mm) steel brackets per unit for attachment to walls and ceilings, providing 4" (100mm) of clearance between back of panel and mounting surface; Other bracket lengths available
- ▶ **Finish:** Polyurethane enamel paint; factory applied
- ▶ **Color:** White, Other colors available
- ▶ **Acoustical Insulation:** 2" (51mm) 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 to 2 mil (0.04mm to 0.05 mm) flame guard polyethylene.
- ▶ **Anchors & Fasteners:** ¾" (6 mm)-20 by 1" (25mm) 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

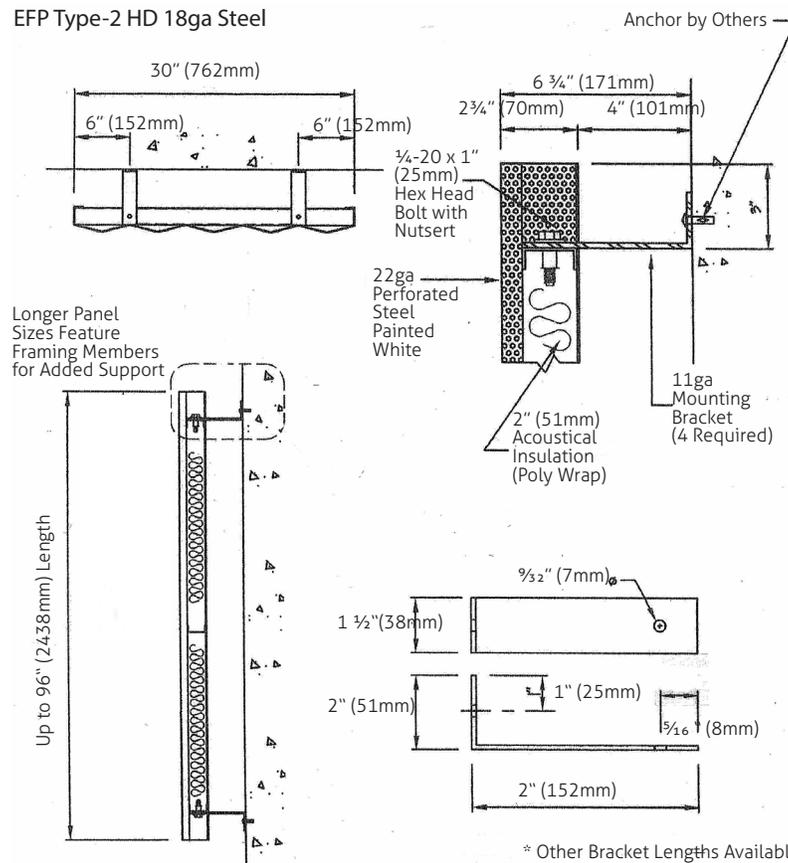
## Acoustical Performance

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](http://www.eckelacousticpanels.com).

### EFP Type-2 HD 18ga 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. 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.