Noise Control Products

Panels & Enclosures

www.pottorff.com
Enclosure Systems

Pottorff sound isolation enclosure systems provide noise control solutions for a range of applications including built-up air handling units, mechanical equipment enclosures, generator sets and plenum chambers. Each enclosure system is custom engineered to meet project specific requirements and packaged as a turn-key solution with required hardware and accessories.

Panels & Accessories

Pottorff sound isolation enclosures are engineered and packaged with a number of optional accessories including access doors, cutouts, outside air intake silencers, discharge silencers, louvered openings, and factory cut penetrations. These are all configurable to meet project specific requirements.

Cutouts

Factory Cut openings engineered in the enclosure system to meet project specific requirements.

Panel Access Doors

24"x72"x2" (610 x 1829 x 51)
36"x72"x2" (914 x 1829 x 51)
24"x72"x4" (610 x 1829 x 102)
36"x72"x4" (914 x 1829 x 102)
Custom sizes and options available.

Trim

Engineered enclosures are packaged with required trim pieces and hardware for installation.

Silencers

Select duct silencers at air intake and exhaust openings to provide noise control at penetrations of sound isolation enclosures.

NOTE: Dimensions in parentheses ( ) are millimeters.
Panels & Enclosures

Barrier Panels

ABP-200, ABP-400

Pottorff's Barrier Panels are designed to provide noise reduction around noise producing equipment where full equipment enclosures are not practical. Ideal for perimeter screen walls around indoor equipment or outdoor equipment yards, the panels eliminate the direct, line-of-sight path for sound propagation, maximizing the effectiveness of the noise barrier system. Optionally absorptive on one side, the panels can provide both sound absorption and sound transmission loss with a single modular panel system. Available in 2" (51) and 4" (102) thickness.

Absorption Panels

AAP-200, AAP-400

Reverberant noise build-up in hard and acoustically reflective spaces can amplify unwanted noise and reduce speech intelligibility. Pottorff’s Absorption Panels are surface mounted panels filled with sound absorptive material and covered with an acoustically transparent perforated metal for durability. Available in 2" (51) and 4" (102) thickness.

Sound Absorption Data

Laboratory sound absorption test data in accordance with ASTM C-423 conducted in NVLAP accredited test facility. Lab Code # 100227-0

Transmission Loss Data

Laboratory sound transmission loss data in accordance with ASTM E-90 conducted in NVLAP accredited test facility. Lab Code # 100227-0

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Materials

Material selection of internal and external components is based on the installed condition of the panel. Pottorff offers a range of material options suitable for indoor or outdoor environments, including Galvanized Steel, Paint Grip Steel, 304 Stainless Steel and 316 Stainless Steel. Galvanized Finishes can be provided to meet project requirements.

Exterior Sheet

Standard construction for the exterior sheet of acoustical panels includes 18 gauge and 16 gauge solid metal for varying degrees of noise control. As the mass of the exterior sheet is increased, higher levels of sound isolation are achieved.

Fill Material

Noise Control and sound absorption in panels and enclosure systems are improved with the use of a sound absorptive material in the cavities of the panel system. Pottorff offers fill material types for a range of applications.

Fill Protection

Project environments often require fill materials be protected for air quality or moisture protection.

Connections

Panel systems are engineered at corners and joints with interlocking Tongue and Groove assemblies that interlock and are fastened with sheet metal screws.

Stiffeners

Pottorff acoustical panels and enclosure systems are engineered to meet project specific structural requirements and pressure ratings. Panels are fabricated with stiffeners at maximum 16” (406) o.c. spacing, optionally decreased to a maximum 12” (305) o.c. spacing or customized to meet project requirements.

Fill Protection

Polymer Film
Fill material encapsulated with polymeric film membrane for fill protection.

Fiberglass
Fiberglass blanket insulation.

Mineral Wool
4 lb. per cubic ft. density mineral wool insulation.

Interior Sheet

Standard construction options for the interior sheet of acoustical panels include solid and perforated materials to customize acoustical performance. Panels with solid metal on both the interior sheet and exterior sheet are optimized for sound isolation (sound transmission directly through the panel). Panels with perforated materials on the interior sheet provide a balance of sound isolation and sound absorption (noise reduction within the panel enclosure), which are normally used for built-up air handling units or plenum chambers. Standard construction options for the interior sheet include 18 and 16 gauge solid material and 22 gauge perforated metal.

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Construction Options

Finish Options

Standard finish options for panels and enclosure systems include mill finish and air dry enamel paint in a number of standard colors. Custom paint options and color matching available for interior and exterior sheets.

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Pottorff offers a comprehensive line of noise control products used extensively in projects across the globe. For over 35 years we have been dedicated to providing the commercial and industrial acoustic markets with excellence in both products and service. Continuously improving our manufacturing techniques and equipment allows a delivery schedule second to none. Creating innovative tools that predict noise levels and simplify product selection makes Pottorff the company to choose to get the right product for every application.

Pottorff’s in-house Acoustical Laboratory, outfitted with state-of-the-art hardware and software tools, allow us to conduct testing according to the latest ASTM standards. Our laboratory is NVLAP accredited (Lab Code 201006-0) to evaluate dynamic insertion loss, self-generated noise and pressure drop in strict accordance with ASTM E477-13.