

Acoustical Systems & Noise Control Products

United McGill® products

McGill AirSilence provides noise control solutions for a broad range of industrial and HVAC applications. We accomplish this by offering a diversified line of noise control products, a full-time acoustical engineering staff, our own NVLAP® accredited acoustical testing laboratory, and a manufacturing facility for the production of noise control products.

We also offer turnkey services for all our products to ensure that you receive a quality installation that meets your noise control and service requirements.

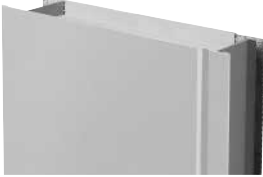



McGill AirSilence's noise control products are sold through a network of company-owned sales offices and industrial and commercial manufacturers' representatives supported by our sales staff.

This product guide gives you a quick reference to our entire offering of products and support services. Specific sales and technical information is available for all our products and services. Please visit our Web site for further information. You may also request our product catalog on compact disk. If you need professional assistance please contact the McGill AirSilence sales representative in your area.

Soundscreen™ Panel Systems

McGill AirSilence offers three different acoustical panel systems that can be integrated into a variety of industrial and HVAC noise control structures including walls, barriers, equipment, and Quiet Haven™

personnel enclosures. These rugged panel systems are of a sandwich construction which consists of a solid outer shell, acoustical/ thermal fill, and perforated inner liner.

Product Photo	Product/Description	Standard Specifications
	<p>Type SL (Snap-Lock) Panels (HVAC)</p> <p>The Type SL panel incorporates a mechanically self-locking feature, which allows adjacent panels to be snap-locked together, forming structurally sound, full-length panel-to-panel joints. The self-locking feature eliminates the need to install sheet metal screws at the panel joints, saving time and installation costs. Type SL panels are designed for permanent installations where future disassembly and re-erection are not required.</p>	<p>Thicknesses: 2 or 4 inches Widths: 24 and 36 inches Lengths: up to 16 feet Materials/Gauges: solid and perforated galvanized steel, 304 and 316 stainless steel, and aluminum Outer Skin: 22-16 gauge Inner Skin: 22-18 gauge</p>
	<p>Type TG (Tongue-and-Groove) Panels (Industrial & HVAC)</p> <p>The Type TG panel features a slip-fit tongue-and-groove joint. It is ideal for enclosures or structures that need to be easily dismantled and be re-erected at another location.</p>	<p>Thicknesses: 2 or 4 inches Widths: 24 and 36 inches Lengths: up to 12 feet Materials/Gauges: solid and perforated galvanized steel, 304 and 316 stainless steel, and aluminum Outer Skin: 22-16 gauge Inner Skin: 22-18 gauge</p>
	<p>Type RR (Rapid Removal) Panels (Industrial)</p> <p>The Type RR panel design allows quick and easy removal from drop-in channel frames. They are good for applications that require access to machinery. Type RR panels are constructed of a solid outer skin and an acrylic-coated fiberglass fill. A perforated metal inner skin is optional.</p>	<p>Thicknesses: 2 or 4 inches Widths: up to 16 inches Lengths: up to 8 feet Materials/Gauges: solid and perforated galvanized steel, 304 and 316 stainless steel, and aluminum Outer Skin: 22-18 gauge Inner Skin: 22 gauge (optional)</p>
	<p>Type WA-1000 Wall Absorbing Panels (Industrial)</p> <p>WA-1000 wall absorbers are a practical way to add noise absorption to existing acoustically reflective factory walls and ceilings located in harsh industrial environments where conventional foam, mineral wool, and fiberglass will not hold up. These panels use brackets with a 2-inch offset for mounting.</p>	<p>Thicknesses: 2 or 4 inches Widths: up to 42 inches Lengths: up to 10 feet Materials/Gauges: solid and perforated galvanized steel, 304 and 316 stainless steel, and aluminum Outer Skin: 22-18 gauge</p>

Soundscreen Barrier Walls

Soundscreen barrier walls provide effective and predictable isolation from excessive sound. They can reduce noise levels by 20 dBA depending upon wall height, location of the noise source, and the location of the receiver. Soundscreen barrier walls can be custom designed for many interior and exterior noise control applications. Typical applications include: roads and interstate highways, commercial and residential property barriers, parking lots, compressors, emergency generators, airports, electrical transformer substations, chillers, cooling towers, gas transmission stations, pumping stations, water and waste water treatment plants, railroads and subways, and bridges. They are designed and built to provide years of service under the toughest conditions.

McGill AirSilence can provide a complete service package including:

- Expert noise control advice and assistance
- Noise measurements testing and NVLAP® laboratory analysis if needed
- Customized design solutions
- Manufacture of all components and structures to agreed specifications
- Installation assistance



Quiet Haven™ Heavy-Duty, Industrial Personnel Enclosures

Quiet Haven enclosures effectively isolate personnel from noise in industrial environments. They improve employee efficiency by isolating personnel from excessive sound without limiting machine access or operator visibility. Quiet Haven enclosures can be custom designed for a wide range of applications such as foreman and supervisory in-plant offices, control rooms, information offices, workstations, power plant offices, machine tender stations, guard houses, security rooms, conference/training rooms, warehouse offices, first aid stations, dispensaries, shipping and receiving

rooms, computer rooms, lunch/break rooms, quality control inspection offices, material testing stations, and drafting rooms.

Quiet Haven enclosures can be shipped completely assembled or in sections to be assembled on site. They are finished with windows, doors, lights, and electric wiring, and ready for hook-up. They can be equipped with silenced air intake and exhaust systems. Air conditioning and heating are optional. These enclosures are designed with forklift channels in the base for easy pick-up and relocation without disassembly.

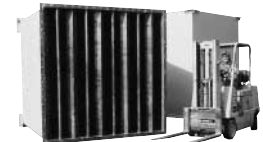


Sounpak® Industrial Silencers

Depending on the model, standard Sounpak silencers are manufactured in straight or elbow configurations and in round or rectangular shapes. They come with or without internal bullets or baffles and with or without acoustical fill or a vapor barrier and fill. There are models to handle airflow velocities from

0 to 10,000 feet per minute (fpm). Custom silencers for special applications are also available as special order items.

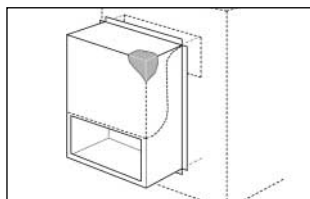
A large variety of types, sizes, materials, gauges, and acoustical fills are available. Please refer to sales and specification literature for more information



Product Photo

Product/Description

Standard Specifications



VS Venting Silencers

The VS venting silencer reduces the amount of noise transmitted through openings used to ventilate an acoustical enclosure. It has an internal baffle with a perforated metal inner liner and is packed with an acoustical/thermal fill.

Dimensions (W x H x D): varies

Inlet Opening Size (inches): varies

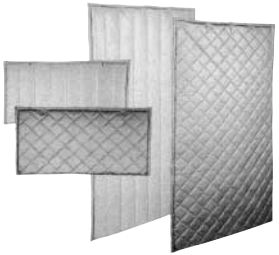

Materials/Gauges: solid and perforated galvanized steel, 304 and 316 stainless steel, and aluminum

Gauge: 22 gauge


Soundscreen Acoustical Curtain Systems

Soundscreen curtain systems are designed for the toughest industrial environments. Whether acting as full or partial enclosures, machinery shrouds and hoods, partitions, or barrier walls, they prevent the transmission of machine-generated noise throughout the work environment without hampering worker access to the machinery. The curtain system consists of free-hanging acoustical panels supported by a

free-standing or suspended metal channel framework. Curtains are available in three panel types: double-layer blocking, single-layer blocking, and absorption in thickness of 1, 2, and 4 inches. Transparent panels are also available. Soundscreen curtain systems are sized and configured to meet the specifications of each application.

Product Photo	Product/Description	Standard Specifications
	<p>Curtain Wall Panels and Overhead Baffles Curtain wall panels and overhead baffles are available in the same panel materials and types as our standard curtain systems. Standard sizes are 4 feet wide by 8 feet long.</p> <p>The standard curtain frame and hardware are fabricated from heavy-gauge galvanized steel while the heavy-duty frame features structural steel tubing to accommodate larger curtain panels. The system's optional double-track configuration allows for side-by-side access at any point and the curved corner option provides even greater access. Available in suspended and floor, wall, and ceiling mounted configurations.</p>	<p>Thicknesses: 1, 2, or 4 inches Widths: 4 feet (custom sizing available) Heights: 8 feet (custom sizing available)</p>
	<p>Roll Goods Curtain material is available in standard 25-foot and 50-foot rolls that are 48-inches wide. Custom widths as well as bound and sewn edges or unbound edges may be specified.</p>	<p>Roll Widths: 48 inches (custom sizing available) Roll Lengths: 25 or 50 feet (custom sizing available)</p>

Soundscreen Acoustical Ceiling and Wall Baffles

Product Photo	Product/Description	Standard Specifications
	<p>Soundscreen Acoustical Ceiling and Wall Baffles The Soundscreen Model UTA-1 is a highly efficient, acoustically tuned, scrim-wrapped baffle designed for mid to low frequency noise absorption. The UTA-1 consists of a semi-rigid fiberglass core completely encapsulated within a foil/polypropylene cover.</p>	<p>Thicknesses: 1 or 2 inches Widths: up to 48 inches Lengths: up to 8 feet Materials/Gauges: semi-rigid fiberglass core encapsulated in a 2-mil-thick reinforced foil/polypropylene cover</p>

Do-It-Yourself Noise Control Materials




McGill AirSilence supplies several types of basic noise control materials for industrial applications. These materials include acoustical foam, vinyl barriers, acoustical linings, and damping products.

Applications for these materials include placement

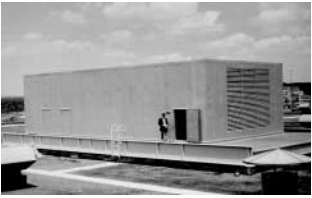
inside compartments of heavy industrial machinery and transportation equipment, engine compartments, business machines such as computer peripheral equipment, HVAC systems, and building walls.

Product Photo	Product/Description	Standard Specifications
	<p>Soundscreen Wedge Foam</p> <p>Soundscreen Wedge Foam is made specifically to absorb reverberant noise in manufacturing plants, offices, and recreational facilities. The foam's patented wedge shape provides 450 percent more surface area to absorb noise than the flat surface of regular foam. It's wedge shape creates a clean and modern look. It easily installs to a variety of surfaces with the use of a utility knife and fast-tacking contact cement.</p>	<p>Thicknesses: Standard: 2, 3, and 4 inches Class 1 — 2 inches Sizes: 2-foot by 4-foot panels Colors: Standard: brown, charcoal, and beige Class 1: white Class 1 with Hypalon®: white, gray, and black Materials: Standard: open-cell polyester urethane Class 1: porous acoustic melamine Class 1 with Hypalon: porous acoustic melamine with Hypalon</p>
	<p>Soundscreen Acoustical Foam</p> <p>Soundscreen Acoustical Foam is a 2 pounds per cubic foot (pcf) density flexible polyurethane polyester foam. It's open cell construction provides an attractive non-reflective surface that absorbs airborne noise. Standard foam can be specified unfaced or with a clear polyester, white polyurethane or black perforated vinyl facing. Soundscreen foam is a safe, non-toxic pleasant handling material that's easily cut with a knife, scissors, or steel rule die and attached with solvent-based contact cement.</p>	<p>Thicknesses: 1 and 2 inches Sizes: 54-inch-wide by 10-foot-long roll, 54-inch-wide by 50-foot-long roll Colors: black Materials: Foam: flexible polyurethane, polyester Facings: clear polyester, white polyurethane, black perforated vinyl</p>
	<p>Soundscreen Acoustical Linings</p> <p>Soundscreen Acoustical Linings combine several basic noise control materials into simple, multi-layered, acoustical composite materials. Two basic linings satisfy most applications: absorbing foam plus noise barrier, and absorbing foam plus damping. Acoustical liners convert bare metal and plastic equipment covers into effective noise enclosures by adding the right combination of sound deadening material to the inside surfaces. These linings are easily cut with standard sheet metal shears, and depending on the type, are bonded to surfaces with either solvent-based contact cement, two-part epoxy, or a pressure sensitive backing.</p>	<p>Thicknesses: Foam with vinyl septum barrier: 1 inch Foam with damping layer: 1 and 2 inches Sizes: Foam with vinyl septum barrier: 54-inch-wide by 50-foot-long roll Foam with damping layer: 2-foot by 4-foot sheet Colors: Foam: black Cover facing: white polyurethane Materials: Foam: flexible polyurethane, polyester Barrier: 1 lb/sq ft loaded vinyl Damping layer: 1/8-inch vinyl</p>
	<p>Soundscreen Vinyl Noise Barriers and Mats</p> <p>Soundscreen Vinyl Noise Barriers are flexible fused vinyl sheet material loaded with high density inert fillers. This combination of materials provides the limpness and mass necessary for the effective blocking of airborne noise. Easy to cut and install, the material may be laid on floors, draped over uneven surfaces or suspended as a curtain wall.</p>	<p>Thicknesses: Gray reinforced loaded vinyl: 3/8 inch Plain black loaded vinyl: 1 and 2 inches Clear vinyl: 0.08 inch Black loaded vinyl floor mat: 3/8 inch Sizes: Gray reinforced loaded vinyl: 54-inch-wide by 60-foot-long roll Plain black loaded vinyl: 54-inch-wide by 60-foot-long roll Clear vinyl: 48-inch-wide by 60-foot-long roll Black loaded vinyl floor mat: 54-inch-wide by 60-foot-long roll</p>

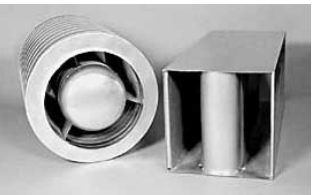
Do-It-Yourself Noise Control Materials

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	<p>Soundscreen Noise Damping Sheets and Tiles</p> <p>Soundscreen Damping Tile is made of an extruded polymer composite of vinyl and graphite which has superior damping performance. This versatile material is available in 0.035- through 0.580-inch thicknesses. The thin sheets can be inexpensively furnished in volume quantities, die cut with or without high-quality pressure sensitive adhesive backing. Thicker 1/4- and 1/2-inch tiles are exceptional noise damping treatments for steel plate and fabricated plate structures.</p>	<p>Thicknesses: 0.035, 0.062, 0.125, 0.375, 0.500, and 0.580 inches</p> <p>Sheet Sizes: 12 inches by 12 inches, 12 inches by 30 inches, and 24 inches by 48 inches</p> <p>Materials: extruded polymer composite of vinyl and graphite</p>																					
	<p>Soundscreen Pneumatic Silencers</p> <p>Soundscreen Pneumatic Silencers control excessive exhaust noise by reducing the velocity and turbulence of the exhaust airflow. Simple and easy to apply, the silencers screw directly into the exhaust port of the control valve. A pneumatic silencer can reduce the noise from a single exhaust port from 90 dBA to about 60 dBA.</p>	<table border="1"> <thead> <tr> <th>NTP Size (inches)</th> <th>Length (inches)</th> <th>Body Diameter (inches)</th> </tr> </thead> <tbody> <tr> <td>1/8</td> <td>1 3/8</td> <td>5/8</td> </tr> <tr> <td>1/4</td> <td>1 5/8</td> <td>3/4</td> </tr> <tr> <td>3/8</td> <td>2 3/4</td> <td>1</td> </tr> <tr> <td>1/2</td> <td>2 7/8</td> <td>1</td> </tr> <tr> <td>3/4</td> <td>5 1/2</td> <td>1 1/2</td> </tr> <tr> <td>1</td> <td>5 1/2</td> <td>2</td> </tr> </tbody> </table>	NTP Size (inches)	Length (inches)	Body Diameter (inches)	1/8	1 3/8	5/8	1/4	1 5/8	3/4	3/8	2 3/4	1	1/2	2 7/8	1	3/4	5 1/2	1 1/2	1	5 1/2	2
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	<p>Soundscreen High Thrust Silencers</p> <p>McGill AirSilence's High Thrust Air Nozzles are recommended for cleaning wands, part drying, part ejection, and other compressed air blow-off applications. They optimize the existing psig of the air system while significantly reducing blow-off air noise. They are available in two NTP sizes of 1/8 and 1/4 inch.</p>	<table border="1"> <thead> <tr> <th>NTP Size (inches)</th> </tr> </thead> <tbody> <tr> <td>1/8</td> </tr> <tr> <td>1/4</td> </tr> </tbody> </table>	NTP Size (inches)	1/8	1/4																		
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Uni-Housing HVAC Pressurized Enclosures

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	<p>Uni-Housing Pressurized Enclosures</p> <p>Uni-Housing acoustical panel enclosures for pressurized applications are used to enclose fans and other loud or thermally controlled HVAC equipment. Our enclosures are custom-designed to meet the needs of each application. They feature the Soundscreen snap-lock panel connection design for low-leakage construction and less costly field installation. Various gauges of outer skin and solid or perforated inner liners may be selected.</p>	<p>Panel Thicknesses: 2 or 4 inches</p> <p>Panel Widths: 24 and 36 inches</p> <p>Lengths: up to 16 feet</p> <p>Materials/Gauges: solid and perforated galvanized steel, 304 and 316 stainless steel, and aluminum</p> <p>Outer Skin: 22-26 gauge</p> <p>Inner Skin: 22-18 gauge</p>

Sounpak HVAC Silencers

Product Photo	Product/Description	Standard Specifications
	<p>Sounpak HVAC Silencers</p> <p>Sounpak silencers for duct systems and other HVAC applications are available in round or rectangular construction, or in a special NO-LOSS™ configuration that provides broad band attenuation with no additional pressure drop. Standard round silencers are available in both single-wall and double-wall constructions. Standard rectangular silencers are available with several internal baffle configurations.</p>	<p>A large variety of types, sizes, materials, gauges, and acoustical fills are available. Please refer to sales and specification literature for more information.</p>