Memtech Acoustical, LLC

Your Source for Noise Control Solutions

Product Catalog

www.memtechacoustical.com

Memtech Acoustical Catalog Index

Sonex Valueline Baffles

- ➢ Wall-to-wall hanging system saves labor time
- ➢ Easy installation
- ➢ Baffles reduce noise and reverberation (echo)

Applications:
- ✓ Gymnasiums
- ✓ Multipurpose rooms
- ✓ Large classrooms or music rooms
- ✓ Manufacturing facilities
- ✓ Warehouses
- ✓ Aquatic Centers and indoor pools
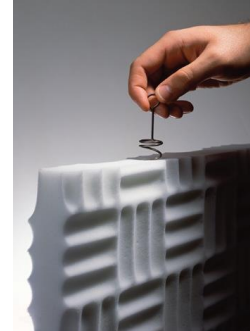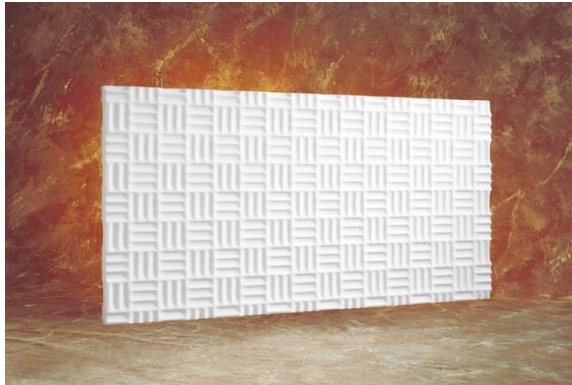
SONEX Valueline Baffles help improve communication and reduce echo/ reverberation in large open areas such as production plants, warehouses, gymnasiums and swimming pools.

SONEX Valueline Baffles absorb sound energy from multiple sources, reducing noise and reverberation throughout the environment. Made from pinta's willtec® foam, SONEX Valueline Baffles are Class 1 fire-rated for flame spread and smoke density. Resistant to fungus and microbial growth, they withstand the humid conditions of indoor swimming pools.

SONEX Valueline Baffles are field-fitted with stainless steel corkscrew hangers, making them easy to install over individual workstations or above an entire floor. Wall-to-wall cable installation is completed by sliding baffles into place from one side of the room, allowing activities to continue uninterrupted. Ceiling cable installation allows baffles to be arranged in box-like or criscross patterns.

Wall-to-Wall Cable Mount Installation
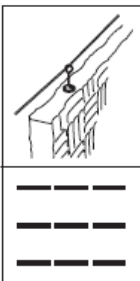
Recommended for large open areas where scaffolding would be disruptive, such as manufacturing floors or pools. Baffles are arranged parallel with each other.

Ceiling Mount Installation
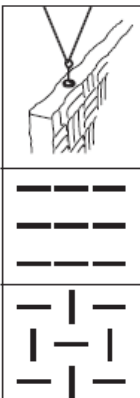
Baffles hang from ceiling-mounted cables. Baffles can be aligned in the same direction or arranged so that every other baffle is turned 90 degrees. Tests show that baffles arranged in this crisscross pattern perform slightly better than baffles hung in the same direction.

Physical data—willtec® foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302°F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5 HPC-coated: 15
Smoke Density per ASTM E 84	Natural: 50 HPC-coated: 150
Fungus Resistance	Rating 0 per ASTM G21
Microbial Growth	Passes UL 181, section 11
Finishes	Natural (white and light grey) or HPC-coated*

*Minimum order of 20 boxes.

Sound Absorption
(In sabins) Test ASTM C423-90a

Frequency (Hz)	2" Thick, Natural	2" Thick, Painted
125	1.0	2.3
250	5.4	6.5
500	10.8	12.7
1K	16.3	19.7
2K	18.7	21.0
4K	24.0	21.0
Average sabins per baffle	12.7	15.0

Sonex One Baffles

- ➢ Softly sculpted surface pattern on both sides Designed to hang from ceilings in large, open rooms
- ➢ Excellent sound absorption across all frequencies
- ➢ Baffle size of 24" x 48" by 3" thickness

Applications:
- ✓ Gymnasiums
- ✓ Multipurpose rooms
- ✓ Large classrooms or music rooms
- ✓ Manufacturing facilities
- ✓ Aquatic Centers and indoor pools
- ✓ Any large, open room

SONEX One Baffles are an ideal solution to reverberation and overall noise problems. These versatile baffles can be used in a variety of settings including: auditoriums, gymnasiums, indoor swimming pools, recreation centers and production facilities. SONEX One Baffles are made from pinta's exclusive willtec® foam, which is Class 1 fire-rated according to ASTM E 84 for flame spread and smoke density. willtec natural also meets the corner burn test UL 1715.

In addition to its high fire safety rating, willtec foam provides excellent sound absorption across all frequencies and helps prevent noise buildup that interferes with speech intelligibility.
SONEX One Baffles are available in natural or HPC-coated finishes.
Our exclusive HPC formulation protects the foam from dust and dirt and makes it possible to wipe baffles clean using only a damp cloth.

SONEX One Baffles are equipped with integrated straps and grommets for easy installation on ceiling-mounted cables or chains. Baffles can be aligned in the same direction or arranged so that every other baffle is turned 90 degrees.

Physical Data—willtec® foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cubic ft. (ASTM D3574-77)
Long-Term Service Temperature	302° F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5 HPC-coated: 15
Smoke Density per ASTM E 84	Natural: 50 HPC-coated: 150
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white and light grey) or HPC-coated

Sound Absorption

Finish	Thickness	Sabins per Baffle per ASTM C423-90a						
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	Average
Natural (white and light grey)	3"	2.3	5.7	10.5	15.3	18.6	24.8	12.9
HPC-coated (black, grey, white or almond)	3"	.076	3.96	10.92	18.2	18.45	18.05	12.9

Sonex Rondo Baffles

- ➢ Vertical or horizontal configurations for design flexibility
- ➢ Exceptional sound absorption across all frequencies
- ➢ Easy installation
- ➢ Class 1 fire-rated

Applications:
- ✓ Reception areas
- ✓ Conference rooms
- ✓ Multipurpose rooms and gymnasiums
- ✓ Aquatic centers and indoor pools
- ✓ Music and classrooms
- ✓ Manufacturing facilities
- ✓ Stadiums
- ✓ Nearly any interior space

SONEX Rondo Baffles offer design versatility and exceptional acoustical properties. Easy to install vertically or horizontally, SONEX Rondo is ideal for a broad range of interior spaces, including conference rooms, reception areas, libraries, production facilities and stadiums.

Installation Information
- ◼ Can be hung vertically or horizontally, above or below ceiling lights
- ◼ The distance between hanging absorbers and the ceiling has little effect on acoustic performance

Wall-to-Wall Cable Mount Installation
- ◼ Recommended for large, open areas
- ◼ Baffles are arranged parallel with each other
- ◼ Spacer bars may be used for arrangement and placement of baffles along the cable span

Ceiling Mount Installation
- ◼ Avoid hanging baffles more than 10' below ceiling (long tethering may cause baffles to sway in areas with strong air currents)
- ◼ Use 1/16" cable or lightweight chain to hang baffles from the ceiling
- ◼ Attach cable or chain to ceiling by looping it around ceiling joists or trusses (Anchoring eyes can also be used. Install them into the ceiling before you begin.)
- ◼ Once cable or chains are in place, attach the bottom end of the cables or chains to the eye loop on top of the corkscrew hanger

Physical Data—willtec foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-term Service Temperature	302°F (150°C)
Fire Resistance	Class 1 per ASTM E 84 Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84 Natural	5
Smoke Density per ASTM E 84 Natural	50
Microbial Growth	Passes UL 181, section 11
Fungus Resistance Rating	0 per ASTM G21
Finishes	Natural (white or light grey)

Sound Absorption

Finish Thickness	Sabins per Baffle per ASTM C423 (J-Mount)						
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	Ave.
Natural 6" diameter (white or light grey)	0.30	1.04	2.73	3.54	3.57	3.42	2.43

Finish Thickness	Sound Absorption per ASTM C423 (J-Mount)						
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC
Natural 6" diameter (white or light grey)	0.08	0.30	0.77	1.00	1.01	0.97	0.75

Sonex Valueline Panels

- ➤ Excellent acoustic control across all frequencies
- ➤ Subtle surface pattern
- ➤ Easily mounts to any ceiling and/or wall surface with pinta's acouSTIC adhesive
- ➤ Panel size of 24" x 48" by 1 1/2", 1 7/8" or 2 1/2" thickness

Applications:
- ✓ Manufacturing facilities
- ✓ Industrial assembly areas
- ✓ Classrooms and music rooms
- ✓ Machine enclosure lining
- ✓ Recreational facilities
- ✓ Multi-purpose rooms
- ✓ Restaurants and cafeterias
- ✓ Nearly any interior space
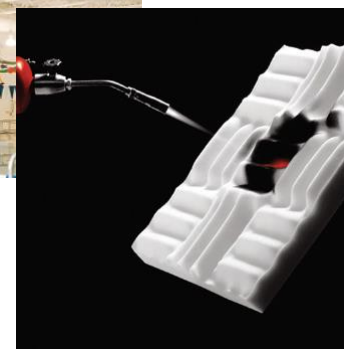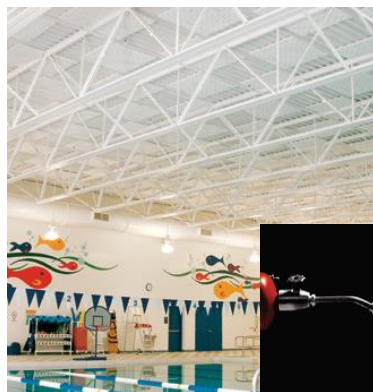
SONEX Valueline Panels provide effective acoustic control at an affordable price. The subtle surface pattern on these panels renders them inconspicuous in most settings, making them suitable for a variety of interior settings, including manufacturing facilities, churches and classrooms. SONEX Valueline Panels are made from willtec® foam, which is Class 1 fire-rated for flame spread and smoke density. willtec natural also meets the corner burn test UL 1715.

SONEX Valueline Panels offer excellent acoustical control across all frequencies with a Noise Reduction Coefficient (NRC) ranging from 0.75 to 1.05. They are especially effective at absorbing excessive sound at the middle frequencies (500 and 1,000 Hz) where unwanted noise and reverberation can interfere with communication.

Panels are available in natural willtec and can be easily mounted to any wall or ceiling surface with pinta's acouSTIC water-based adhesive. Separate panels by 1" from adjacent panels for a more uniform appearance.

Physical Data—willtec® foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302°F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5 HPC-coated: 15
Smoke Density per ASTM E 84	Natural: 50 HPC-coated: 150
Fungus Resistance	Rating 0 per ASTM G21
Microbial Growth	Passes UL 181, section 11
Finishes	Natural (white and light grey) or HPC-coated*

*Minimum order of 20 boxes.

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
Natural	1 1/2"	0.08	0.29	0.73	0.94	0.97	0.89	0.75	B
(white and light grey)	1 7/8"	0.17	0.55	1.07	1.15	1.08	1.10	0.95	B
	2 1/2"	0.19	0.62	1.15	1.21	1.14	1.20	1.05	B

Sonex One Panels

- ➢ Softly sculpted surface pattern
- ➢ Excellent sound absorption across all frequencies
- ➢ Helps reduce noise, unwanted sounds and reverberation in many types of interior environments
- ➢ Panel size of 24" x 48" by 2" or 3" thickness
- ➢ Beveled edges for a finished look

Applications:
- ✓ Retail stores
- ✓ Printing press rooms
- ✓ Production facilities
- ✓ Aquatic and recreational centers
- ✓ Educational facilities and daycare centers

SONEX One Panels are a versatile product, offering effective acoustic control in a variety of applications and environments including industrial facilities, multi-purpose rooms and architectural projects. SONEX One Panels are attractive and reliable, featuring Noise Reduction Coefficient (NRC) ranging from 0.85 to 1.10.

The sculpted surface of each panel deflects and disperses sound waves, allowing the open-cell willtec® foam to convert sound energy into quiet, kinetic energy. pinta's exclusive willtec foam is Class 1 fire-rated according to ASTM E 84 for flame spread and smoke density. willtec natural meets the corner burn test UL 1715.

SONEX One Panels are available in natural or HPC-coated finishes. Our exclusive HPC formulation protects the foam from dust and dirt and makes it possible to wipe panels clean using only a damp cloth.

SONEX One Panels are easy to install on any wall and/or ceiling surface with pinta's acouSTIC water-based adhesive.

Physical Data—willtec® foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cubic ft. (ASTM D3574-77)
Long-Term Service Temperature	302° F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5 HPC-coated: 15
Smoke Density per ASTM E 84	Natural: 50 HPC-coated: 150
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white and light grey) or HPC-coated

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
Natural	2"	0.11	0.33	0.85	1.05	1.09	1.06	0.85	B
(white and light grey)	3"	0.09	0.68	1.20	1.18	1.12	1.05	1.05	A
HPC-coated	2"	0.13	0.41	1.02	1.18	1.18	1.13	0.95	B
(black, grey, white or almond)	3"	0.13	0.85	1.25	1.22	1.13	1.14	1.10	A

Sonex Classic Panels

- Famous anechoic wedge shape
- Noise Reduction Coefficient
- (NRC) ranging from 0.75 to 0.80
- Available with special colortec process
- Panel size of 24" x 48", 2" thick SONEX Classic
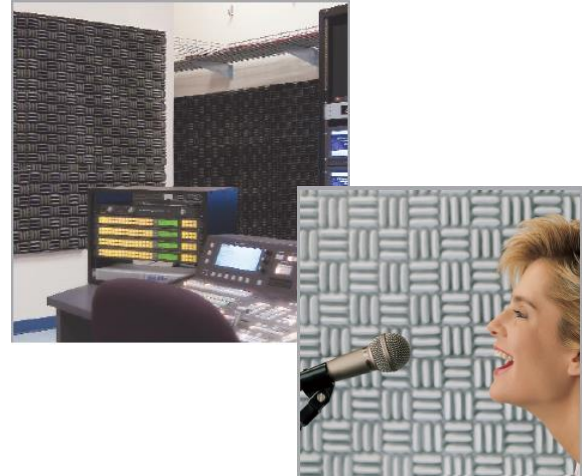
Applications:
- Recording, broadcast studios and listening rooms
- Machine enclosures and print shops
- Indoor firing ranges
- Museums or interactive display areas
- Clubs, bars and restaurants

SONEX Classic Panels feature a modified anechoic wedge design for cost-effective, yet impressive sound control. The unique geometric shape of the surface pattern on these panels provides optimum deflection of sound waves, making them an excellent choice for recording and broadcast studios. These versatile panels can also be used in listening rooms, restaurants, production areas and other locations where sound absorption is critically important. Panels offer excellent acoustical control across all frequencies with a Noise Reduction Coefficient (NRC) ranging from 0.75 to 0.80.

SONEX Classic Panels are available in natural willtec®. The panels are also offered in colortec (the entire thickness of the foam panel is dyed a deep charcoal) and colortec premium (colortec with a more uniform surface color). These panels are especially appropriate for high-traffic areas.

Regardless of the finish option, pinta's exclusive willtec foam is Class 1 fire-rated, according to ASTM E 84 for flame spread and smoke density. willtec natural and colortec meet the corner burn test UL 1715.

These panels can easily be mounted to any wall or ceiling surface with pinta's acouSTIC water-based adhesive.

Physical Data—willtec® foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302°F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural and colortec)
Flame Spread per ASTM E 84	Natural: 5 colortec: 10
Smoke Density per ASTM E 84	Natural: 50 colortec: 10
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white and light grey), colortec or colortec premium

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a						NRC	Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz		
Natural (white and grey)	2"	0.05	0.31	0.81	1.01	0.99	0.95	0.80	A
colortec (charcoal)	2"	0.05	0.31	0.81	0.96	0.97	0.97	0.75	A
colortec premium (charcoal)	2"	0.05	0.31	0.81	0.96	0.97	0.97	0.75	A

Sonex Mini Panels

- ➤ Smaller convoluted surface pattern
- ➤ Panel size of 24" x 48" by
- ➤ 1" or 11/2" thickness

Applications:
- ✓ Machine enclosures
- ✓ Applications requiring thinner panels
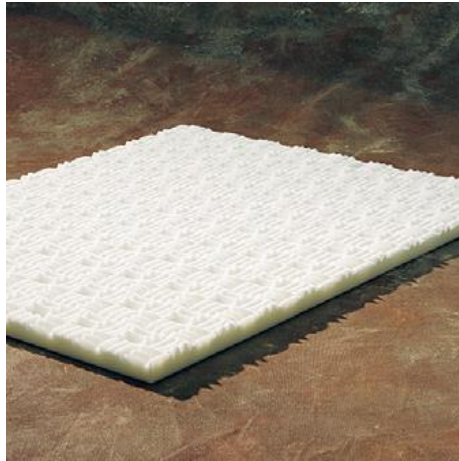
SONEX Mini Panels provide excellent sound absorption, especially in environments requiring high-frequency noise control. Made with pinta's exclusive willtec® foam, SONEX Mini Panels are a safety-minded choice for use in machine enclosures and other confined spaces. willtec foam is Class 1 fire-rated according to ASTM E 84 for flame spread and smoke density. It can withstand constant temperatures above 300° Fahrenheit, and will char, but not ignite, at temperatures above 1100° Fahrenheit. willtec natural meets the corner burn test UL1715.

SONEX Mini Panels, available in natural or painted willtec, are easy to install on any wall and/or enclosure surface with pinta's acouSTIC water-based adhesive.

Physical Data—willtec foam

| Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cubic ft. (ASTM D3574-77)
Long-Term Service Temperature	302 degrees F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5 Painted: 10
Smoke Density per ASTM E 84	Natural: 50 Painted: 10
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white and light grey) or painted

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
Natural	1"	0.11	0.17	0.40	0.72	0.79	0.91	0.50	A
(white and light grey)	1½"	0.14	0.21	0.61	0.80	0.89	0.92	0.65	A

Sonex Junior Panels

- ➢ Famous anechoic wedge shape
- ➢ Noise Reduction Coefficient
- ➢ (NRC) ranging from 0.75 to 0.80
- ➢ Available with special colortec process
- ➢ Panel size of 24" x 24", 2" thick SONEX Junior

Applications:
- ✓ Recording, broadcast studios and listening rooms
- ✓ Machine enclosures and print shops
- ✓ Indoor firing ranges
- ✓ Museums or interactive display areas
- ✓ Clubs, bars and restaurants
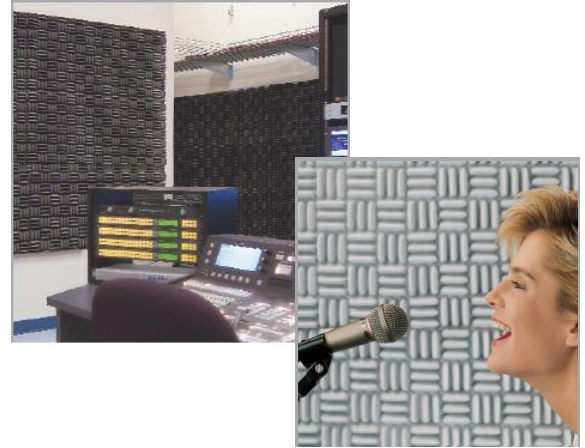
SONEX Junior Panels feature a modified anechoic wedge design for cost-effective, yet impressive sound control. The unique geometric shape of the surface pattern on these panels provides optimum deflection of sound waves, making them an excellent choice for recording and broadcast studios. These versatile panels can also be used in listening rooms, restaurants, production areas and other locations where sound absorption is critically important. Panels offer excellent acoustical control across all frequencies with a Noise Reduction Coefficient (NRC) ranging from 0.75 to 0.80.

SONEX Junior Panels are available in natural willtec®. The panels are also offered in colortec (the entire thickness of the foam panel is dyed a deep charcoal) and colortec premium (colortec with a more uniform surface color). These panels are especially appropriate for high-traffic areas.

Regardless of the finish option, pinta's exclusive willtec foam is Class 1 fire-rated, according to ASTM E 84 for flame spread and smoke density. willtec natural and colortec meet the corner burn test UL 1715.

These panels can easily be mounted to any wall or ceiling surface with pinta's acouSTIC water-based adhesive.

Physical Data—willtec® foam

| Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302°F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural and colortec)
Flame Spread per ASTM E 84	Natural: 5 colortec: 10
Smoke Density per ASTM E 84	Natural: 50 colortec: 10
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white and light grey), colortec or colortec premium

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a						NRC	Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz		
Natural (white and grey)	2"	0.05	0.31	0.81	1.01	0.99	0.95	0.80	A
colortec (charcoal)	2"	0.05	0.31	0.81	0.96	0.97	0.97	0.75	A
colortec premium (charcoal)	2"	0.05	0.31	0.81	0.96	0.97	0.97	0.75	A

Sonex Pyramid Panels
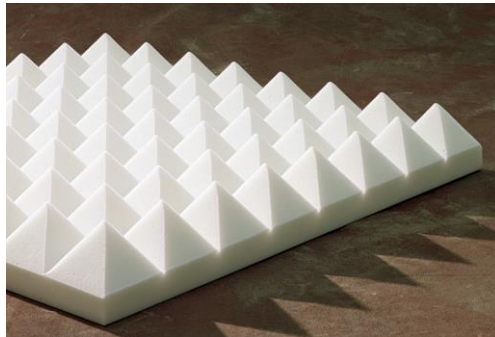
- Bold, geometric pattern
- Seamless installation
- Excellent acoustic control
- Panel size of 24" x 24" by 2", 3" or 4" thickness

Applications:
- Displays, showrooms and museums
- Machine rooms or manufacturing areas
- Modern offices and building interiors
- Recreational facilities
- Recording studios and listening rooms
- Restaurants and cafeterias

SONEX Pyramid Panels offer outstanding acoustic control across all frequencies with Noise Reduction Coefficient (NRC) ranging from 0.75 to 1.05. The unique geometric design of these panels dramatically increases the panels' surface area, providing much more acoustic control than flat surfaces. SONEX Pyramid Panels are made from pinta's willtec® foam, which is Class 1 fire-rated according to ASTM E 84 for flame spread and smoke density. willtec natural also meets the corner burn test UL 1715.

SONEX Pyramid Panels, available in natural willtec, can be easily mounted to any wall or ceiling surface with pinta's acouSTIC water-based adhesive. Once installed, the 24" x 24" panels align to make an attractive, seamless pattern.

Physical Data—willtec® foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cubic ft. (ASTM D3574-77)
Long-Term Service Temperature	302° F
Fire Resistance	Class 1 per ASTM E 84 Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5
Smoke Density per ASTM E 84	Natural: 50
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white and light grey)

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
Natural	2'	0.07	0.25	0.60	0.94	0.97	1.08	0.70	B
(white and grey)	3'	0.09	0.37	0.81	1.01	1.03	1.07	0.80	B
	4'	0.18	0.44	0.96	1.14	1.18	1.19	0.95	B

Fabritec Panels

- ➢ Outstanding acoustical performance
- ➢ Stylish colors and textures
- ➢ Wide range of fabrics
- ➢ Custom or standard panel sizing
- ➢ Lightweight, durable design

Applications:
- ✓ Schools
- ✓ Religious facilities
- ✓ Gymnasiums
- ✓ Restaurants
- ✓ Offices
- ✓ Auditoriums
- ✓ Lobbies

With a custom look, durable construction and excellent sound-absorbing characteristics, our FABRITEC Wall Panels easily add style and performance to schools, religious facilities, gymnasiums, restaurants, offices, auditoriums, lobbies and other noisy open areas.

Available in custom and standard sizes, FABRITEC Wall Panels create a design that perfectly fits your space. Select from hundreds of fashionable fabrics, including Guilford, Maharam and others.

FABRITEC Wall Panels are just as easy to install as they are to specify. Built from a unique willtec® foam core, they offer outstanding acoustical performance, absorbing up to 85% of the sound directed at them. FABRITEC Wall Panels are lightweight, making them easy to install with adhesive and/or hook and loop. They are also impact resistant and have a tackable surface.

FABRITEC Wall Panels are the superior solution for adding texture, color and acoustical balance to your designs.

Material

FABRITEC Wall Panels consist of a willtec® foam core and a rugged, tackable exterior covered with a variety of fabrics.

- ■ willtec is an open-cell, melamine foam that provides sound absorption comparable to bagged fibrous products, but with less material, thickness and weight
- ■ FABRITEC's tackable and impact-resistant surface is made from a lightweight, yet strong $\frac{1}{16}$" fiberglass substrate

Panel Dimensions

- ■ 24" x 24", 24" x 48" or custom sizing
- ■ 1", 1½" or custom thickness

Installation

- ■ Panels attach in seconds to existing, clean surfaces with adhesive and/or hook and loop
- ■ See installation guide

Accessories

pinta's acouSTIC foam adhesive provides a quick, solid bond for installing FABRITEC Wall Panels. acouSTIC and other mounting materials are priced separately and supplied on request.

Sound Absorption

Test ASTM C423-99a; Mounting Type D, 1" Thick Panel, Guilford Fabric

Frequency (Hz)	Absorption Coefficient
125	0.18
250	0.68
500	0.95
1000	0.92
2000	0.78
4000	0.67
NRC	0.85

Physical Data—willtec foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302° F
Fire Resistance	Class 1 per ASTM E 84 Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5
Smoke Density per ASTM E 84	Natural: 50
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating #0 per ASTM G21
Finishes	Fabric

willtec Sheets

- Open-cell, fiber-free melamine foam
- Excellent acoustic insulation
- Core material used in SONEX® and other pinta products
- Class 1 fire-rated
- Meets ASTM E84 and UL 1715
- requirements
- Does not ignite at temperatures below 1120°F
- Excellent heat insulation properties;
- no flaming drip
- Very low-density, lightweight and highly flexible
- Excellent sound control characteristics in a wide range of frequencies
- Economical, easy to install and maintain

Applications:
- ✓ Schools
- ✓ Religious facilities
- ✓ Gymnasiums
- ✓ Restaurants
- ✓ Offices
- ✓ Auditoriums
- ✓ Lobbies

Lightweight, flexible willtec foam excels at heat and sound insulation

pinta's willtec foam meets many stringent requirements for fire resistance, heat shielding, sound control and cushioning without compromising important characteristics such as weight, flexibility, easy installation or reasonable cost.

Withstands extreme temperatures

willtec foam is made from lightweight porous melamine. It meets all ASTM E84 requirements for flame spread and smoke density, and it passes the aggressive new UL 1715 room fire exposure test. This versatile foam can even be exposed to constant temperatures up to 300°F, and short-term temperatures up to 482°F. It will char, but not ignite, at temperatures up to 1120°F.

Unique construction meets a range of requirements

The open-celled, fiber-free structure of willtec foam gives it an extremely low density, making it lightweight and flexible. The open-cells also enhance the materials ability to dampen sound over a wide range of frequencies (see absorption coefficients and NRC on other side). willtec foam is easy to cut, mold, trim and laminate. pinta uses willtec as the core material in all of its acoustical product lines, from wall SONEX Panels and Baffles to CONTOUR® Ceiling Tiles to multi-layer composites to HVAC duct liners. In addition, pinta has developed acouSTIC, a specially formulated adhesive to be used with wall panels for quick and easy installation.

Handles tough environmental conditions

willtec foam comes standard in natural white and light grey colors. Many other surface finishes, including HPC coating, are also available to resist wear from dirt, water, solvents and other environmental irritants.

Physical Data—willtec® foam

Tensile Strength	8 PSI (ASTM D3574-77)
Density	0.7 lbs./cubic ft.
Elongation	8% (ASTM D3574-77)
Heat Conductivity	K factor = 0.24 at 50 degrees F, R value = 4.2
Temperature Stability	0 to 302 degrees F
Finish	Natural (white and light grey), HPC-coated, colortec (charcoal), Mylar®, Tyvec® and others.

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
Natural	1 ½"	0.08	0.29	0.73	0.94	0.97	0.89	0.75	B
(white and light grey)	2"	0.05	0.31	0.81	1.01	0.99	0.95	0.80	A
HPC-coated (black, grey, white or almond)	2"	0.13	0.41	1.02	1.18	1.18	1.13	0.95	B
colortec	2"	0.07	0.26	0.77	1.01	0.99	1.00	0.75	B

Sonex Wedges

Pinta acoustic offers a complete solution – from facility design through final certification – with products and expertise to meet the most demanding needs. SONEX Wedges, including SONEX Super and SONEX Max, provide maximum sound absorption for a variety of applications. While SONEX Super Wedges are 12"x12"x6" high, our SONEX Max Wedges can be customized to almost any dimension and thickness to meet your cut-off frequency and test area needs. In working with our technicians, we can help determine the exact shape needed to satisfy your test method.

SONEX Max Wedges can be up to 61" thick if a 63 Hz or higher cut-off frequency is needed for measurement according to ISO 3745 precision method. The willtec foam used to manufacture SONEX Max Wedges also has advantages in that they are lightweight, easy to install and provide complete sound absorption at all frequencies, even the very high frequencies.

SONEX Max Wedges have been used in test facilities of Airbus Industries and NASA Langley Research Center.

Physical Data—willtec® foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302°F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5 HPC-coated: 15
Smoke Density per ASTM E 84	Natural: 50 HPC-coated: 150
Fungus Resistance	Rating 0 per ASTM G21
Microbial Growth	Passes UL 181, section 11
Finishes	Natural (white and light grey) or HPC-coated*

Contour Ceiling Tiles

> - Distinguished style
> - Standard & custom designs
> - Exceptional acoustical performance
> - Optimum acoustical control

Applications:
- ✓ Offices
- ✓ Call centers
- ✓ Lobbies
- ✓ Entertainment facilities
- ✓ Conference rooms
- ✓ Retail stores
- ✓ Lodging facilities
- ✓ Health Care facilities

CONTOUR tiles add distinction, value and outstanding acoustical control to offices, call centers, lobbies, entertainment facilities, conference and board rooms, retail stores, lodging and healthcare facilities, among others.

pinta's CONTOUR tiles are available for ceiling grid and adhesive applications. The ceiling grid tiles have a backerboard that blocks sound from traveling into adjacent rooms. Tiles without a backerboard easily install using acouSTIC adhesive.

These premium ceiling tiles come in several subtle to dramatic sculpted designs that can be easily mixed and matched to create a unique look. Custom patterns, including corporate logos, and color matching are also available for creating a breathtaking signature ceiling. With CONTOUR Ceiling Tiles, you are only limited by your imagination.

CONTOUR tiles with a backerboard have a ceiling attenuation class (CAC) of 34 to help contain sound – making them ideal for applications requiring additional privacy. Both the adhesive and ceiling grid CONTOUR tiles provide exceptional sound absorption and have Noise Reduction Coefficients (NRC) up to 1.20, depending on the pattern chosen.

Manufactured from pinta's willtec® foam, CONTOUR tiles also maintain their integrity in moist or humid environments without sagging. With a unique HPC coated surface – available in arctic white, black onyx, grey mist and almond –CONTOUR tiles are durable and simple to clean with a damp cloth.

Superior style and excellent performance – CONTOUR tiles are simply the ultimate in ceiling design.

Material

CONTOUR® tiles are made from pinta's innovative willtec® foam. willtec is a lightweight, open-cell, melamine foam that provides excellent acoustical control. CONTOUR tiles have a HPC-coated surface. Tiles for drop-in grid applications are backed with a sag-resistant ⅜" backerboard.

Physical Data—willtec foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302° F
Fire Resistance	Class 1 per ASTM E 84
Flame Spread per ASTM E 84	HPC-coated: 15
Smoke Density per ASTM E 84	HPC-coated: 150
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating #0 per ASTM G21
Finish	HPC-coated

CONTOUR Tiles Sound Absorption – Adhesive Installation
ASTM C423-90a; Mounting Type A

Frequency (Hz)	Basix 1 1" Thick	Basix 2 1¾" Thick	All Patterns 1¾" Thick
125	0.12	0.21	0.16
250	0.24	0.48	0.28
500	0.59	0.93	0.71
1000	0.89	1.09	0.96
2000	0.96	1.09	1.00
4000	0.99	1.04	0.99
NRC	0.65	0.90	0.75

CONTOUR Tiles Sound Absorption – Grid Installation
ASTM C423-90a; Mounting Type E

Frequency (Hz)	Basix 1 1⅜" Thick	Basix 2 2⅛" Thick	All Patterns 2⅛" Thick
125	0.63	0.43	0.61
250	0.54	0.73	0.67
500	0.81	1.18	1.01
1000	1.24	1.44	1.33
2000	1.30	1.44	1.43
4000	1.36	1.54	1.56
NRC	0.95	1.20	1.10

Harmoni Ceiling Tiles

- ➤ Smooth or softly sculpted patterns
- ➤ Contemporary flair
- ➤ Exceptional acoustical performance
- ➤ Mold-resistant, fire-retardant

Applications:
- ✓ Classrooms
- ✓ Office
- ✓ Conference rooms
- ✓ Listening Rooms
- ✓ Home theaters
- ✓ Retail stores
- ✓ Corridors

HARMONI Ceiling Tiles are the natural choice when you're looking for a way to combine contemporary styling with excellent acoustical control at a moderate price. They're a perfect solution for classrooms, offices, conference rooms, listening rooms, home theaters, retail stores, corridors and any other interior area where ceiling tiles are used.

HARMONI Ceiling Tiles are built from lightweight willtec® foam, making for easy installation and excellent sound absorption across all frequencies. The tiles are available in two styles, each with a tegular edge. The VISTA pattern has a smooth surface for a clean look while the TARTAN pattern provides a softly sculpted style. HARMONI tiles are HPC-coated in white, black, light grey or almond for easy cleaning and durability. Since HARMONI Ceiling Tiles are naturally mold-resistant and fire-retardant, extra protective coatings are not needed.

If you're looking for aesthetic flair, sound absorption and functionality at an affordable price, HARMONI Ceiling Tiles are designed to deliver. Their combined attributes make them a unique and welcome architectural option.

Installation

- Quickly drops into pinta or any ceiling grid system
- Cross-tees facilitate retrofitting of 24" x 48" ceiling tiles
- Use clean gloves to prevent soiling tiles
- Maintain uniform temperature of minimum 60° F and maximum humidity of 40% prior to, during and after installation
- Press panels from above to set into grids (do not pull from face)

Physical Data—willtec Foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302° F
Fire Resistance	Class 1 per ASTM E 84
Flame Spread per ASTM E 84	HPC-coated: 15
Smoke Density per ASTM E 84	HPC-coated: 150
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating #0 per ASTM G21
Finish	HPC-coated

Sound Absorption Test ASTM C423-90a; Mounting Type E

Frequency (Hz)	2" Thickness
125	0.89
250	0.84
500	0.78
1000	1.02
2000	1.05
4000	1.00
NRC	0.90

Material

HARMONI Ceiling Tiles are made from pinta's willtec® foam, a lightweight, open-cell melamine foam that provides excellent acoustical control. HARMONI Ceiling Tiles also have a HPC-coated surface that adds durability, prevents dirt/dust penetration and easily wipes clean with a damp cloth.

Size

- Fits all ¹⁵/₁₆" grid systems
- Panels: 24" x 24" dimension
- Thickness: 2"

Squareline Ceiling Tiles

- ➢ Sleek, modern look
  Custom options
- ➢ Easy installation
- ➢ Acoustical control
- ➢ Three bold patterns:
  SQUARELINE Standard
  SQUARELINE Medium
  SQUARELINE Ultra

Applications:
- ✓ Modern offices
- ✓ Conference rooms
- ✓ Lobbies
- ✓ Retail stores
- ✓ Museums
- ✓ Convention centers
- ✓ Stadiums
- ✓ Restaurants

SQUARELINE Metal Ceiling Tiles give ceilings a stunning, modern, high-tech look. Constructed from 35 to 55 percent recycled material, these expanded-metal tiles are available in three distinct patterns with or without an acoustical backer.

If you're looking for a more dramatic, contemporary look, choose the large mesh pattern of SQUARELINE Ultra or the mid-size pattern of SQUARELINE Medium. Both come in white, chrome or black metal with a white, light grey or black backer and are ideal for large, open environments such as modern entries, museums, convention centers, stadiums and restaurants.

SQUARELINE Standard offers contemporary European flair in a choice of white, chrome or black metal with a white, light grey or black backer. Matching trim tiles are also available. They are sophisticated choice for modern offices, conference and board rooms, lobbies, retail stores and more.

To meet your unique vision, specify SQUARELINE in a custom dimension or distinctive color of metal to match the décor.

Material

- ■ 35% to 55% recycled material
- ■ Galvanized, powder-coated expanded metal ceiling tiles
- ■ Durable and Class 1 fire-rated
- ■ Fleece* acoustical backer prebonded to metal ceiling tiles

Installation

- ■ Easily drops into pinta or any standard ceiling grids
- ■ Prebonded, one-piece design simplifies handling
- ■ Install at any stage of construction
- ■ Cotton gloves recommended
- ■ Expanded metal is directional; install with notch on all tiles facing the same direction

Physical Data—willtec FM

Tensile Strength	10 PSI (ASTM D3574-77)
Density	5.7 lbs./cu. ft.
Elongation	20% (ASTM D3574-77)
Heat Conductivity	K factor = 0.38 at 50° F
Long-Term Service Temperature	-76 to 302°F
Fire Resistance	Class 1 (ASTM E84)
Color	White, light grey and black

SQUARELINE Sound Absorption
Test ASTM C423-90a; Mounting Type E

Frequency (Hz)	Fleece Acoustical Backer*
125	0.37
250	0.59
500	0.30
1000	0.50
2000	0.75
4000	1.09
NRC	0.55

Whiteline Ceiling Tiles

➤ Smooth, contemporary finish
➤ Exceptional acoustical performance
➤ White has high light reflectance

Applications:
✓ Offices
✓ Schools
✓ Churches
✓ Conference rooms

WHITELINE Ceiling Tiles have a distinctive smooth finish that is a total departure from the ceiling tiles of the past. Tiles feature white fleece laminated to one surface and black on the reverse surface. The white side has a high light reflectancy (0.89). Both colors are ideal for offices, schools, churches, conference rooms and virtually any application.

Built from a unique willtec® foam core, WHITELINE tiles are lightweight, guaranteed not to sag and offer superb sound absorption. They are available in a variety of dimensions ranging from 24" x 24" up to 48" x 96" and everything in-between. WHITELINE tiles can be installed with pinta's ceiling grid or any conventional suspension grid.

WHITELINE's unique appearance and custom dimensions provide a beautiful option for today's ceilings.

Material

WHITELINE® tiles are made from pinta's innovative willtec® foam. willtec is a lightweight, open-cell, melamine foam that provides excellent acoustical control. White fleece is laminated to one surface with black fleece on the reverse surface.

Installation

■ WHITELINE Ceiling Tiles can be installed into pinta's or any ceiling grid systems
■ Handle with clean, white cotton gloves only
■ WHITELINE Ceiling Tiles are easily cut with a utility knife

Dimensions

■ 24" x 24" x 0.6"
■ 24" x 48" x 0.6"
■ 48" x 48" x 0.6"
■ 48" x 96" x 0.6"
■ Other dimensions upon request

Physical Data—willtec foam

Tensile Strength	8 PSI (ASTM D3574-77)
Density	0.7 lbs./cu. ft.
Elongation	8% (ASTM D3574-77)
Heat Conductivity	K factor = 0.24 at 50°F
Long-Term Service Temperature	302°F
Fire Resistance	Class 1 (ASTM E84)
Flame Spread per ASTM	E 84 0
Smoke Density per ASTM	E 84 65
Color	White/Black

Sound Absorption
Test ASTM C423-90a; Mounting Type E

Frequency (Hz)	0.6" Thickness
125	0.27
250	0.60
500	0.64
1000	0.80
2000	0.91
4000	1.02
NRC	0.75

Phonstop Ceiling and Wall Tiles

- ➢ Made from 100 percent recycled glass
- ➢ Exceptional acoustical properties
- ➢ Two styles: adhere to walls and ceilings or lay-in pinta or standard 15/16" ceiling grid system
- ➢ PHONSTOP Plaster provides a seamless appearance
- ➢ Can be custom colored using an acoustical coating

PHONSTOP Ceiling and Wall Tiles are made from 100 percent recycled glass, sintered to form rigid, lightweight and porous sound absorbers. PHONSTOP products have exceptional acoustical properties and are easy to install indoors or outdoors.

Physical Data

Materiallue 3.24	100% recycled glass
Density (ASTM D1622-08)	16.79 lbs./ft³
Fire Resistance (ASTM E 84)	Class 1
Flame Spread (ASTM E 84)	0
Smoke Density (ASTM E 84)	0
Compression Strength (ASTM D1621-04)	165 psi
Thermal Resistance (ASTM C518-04)	Effective R value 3.24

Installation

PHONSTOP V

- ▪ Adheres directly to walls or ceilings
- ▪ Roll on PHONSTOP pt17 Primer to existing substrate. Apply PHONSTOP pa81 Adhesive using 3/8" tooth trowel to the back of each tile (be careful not to get adhesive on the visible tile face)
- ▪ Create a seamless, monolithic appearance by using the square edge tile face and rolling on a layer of PHONSTOP pt17 Primer; then trowel two layers of PHONSTOP pa85 Plaster*
- ▪ Can be custom colored for interior applications using an acoustical coating*
- ▪ In outdoor, weather-exposed conditions, apply PHONSTOP Sealer for added durability

PHONSTOP E

- ▪ Lay-in pinta or any standard 15/16" ceiling grid system

Sound Absorption

Description	Frequency (Hz)						NRC
	125	250	500	1,000	2,000	4,000	
PHONSTOP V— Test ASTM C423-90a; Mounting Type A							
Thickness 2" (50 mm), adhered and coated	0.14	0.60	1.09	0.96	1.02	1.03	0.90
Thickness 2" (50 mm), adhered without space between tiles	0.16	0.63	1.15	0.91	0.98	0.99	0.90
Thickness 2" (50 mm), adhered and plastered	0.26	0.75	0.86	0.62	0.66	0.57	0.70
PHONSTOP E— Test ASTM C423-90a; Mounting Type E							
Thinkness 1" (25 mm)	0.45	0.55	0.60	0.75	0.80	0.85	0.70

*Plaster and acoustical coating may only be applied by a certified applicator.

Material

PHONSTOP Ceiling and Wall Tiles are made from 100 percent recycled glass sintered to form rigid, lightweight and porous sound absorbers. Tiles are ASTM 84 Class 1 (A) fire-rated and offered for adhesive (PHONSTOP V) and lay-in ceiling grid (PHONSTOP E) applications. Other PHONSTOP products include:

- ▪ PHONSTOP pa81 Adhesive (pa81 for concrete, masonry and drywall)
- ▪ PHONSTOP pa85 Plaster (for seamless, monolithic appearance)
- ▪ PHONSTOP pt17 Primer
- ▪ PHONSTOP pt13 Sealer (for weather-exposed conditions)

Size

PHONSTOP V—adhesive applications on walls and ceilings

- ▪ 24" x 24" x 2" thickness (610 x 610 x 50 mm)
- ▪ 24" x 48" x 2" thickness (610 x 1220 x 50 mm)
- ▪ Tiles offer two edge options: One face of the tiles feature 3/8" (9 mm) chamfer beveled edges, while the reverse face has square edges.

PHONSTOP E—ceiling grid applications

- ▪ 24" x 24" x 1" thickness nominal (604 x 604 x 25 mm)
- ▪ 24" x 48" x 1" thickness nominal (604 x 1213 x 25 mm)
- ▪ Slightly beveled square edge

Sonex Clean Products

- ➢ Washable, cleanable and durable
- ➢ Sound absorption to reduce reverberation or echo
- ➢ Easy-to-install ceiling tiles, wall panels and baffles
- ➢ willtec® core is Class 1 fire-rated

Applications:
- ✓ Gymnasiums
- ✓ Multipurpose rooms
- ✓ Large classrooms or music rooms
- ✓ Manufacturing facilities
- ✓ Warehouses
- ✓ Aquatic Centers and indoor pools
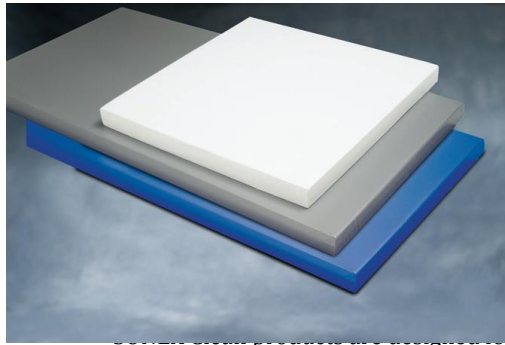
SONEX Clean products are designed for environments that require noise control with durable, washable and cleanable materials. The baffles, panels and ceiling tiles are ideal for use in a variety of applications, including bottling and food processing plants, clean rooms and food preparation areas. SONEX Clean products meet USDA/FDA requirements.

The products are fully encapsulated in FR taffeta vinyl for efficient cleaning and long, durable life. They offer excellent sound absorption to reduce reverberation or echo. The SONEX Clean line is made from pinta acoustic's willtec melamine foam core, which is ASTM E84 Class 1 fire-rated. Products are available in 17 standard colors.

Materials

- ■ Made from pinta's Class 1 fire-rated willtec® melamine foam core
- ■ Fully encapsulated in FR taffeta vinyl
- ■ 17 standard colors

Installation/Size

Ceiling Tiles
(24" x 24" x 2" or 24" x 48" x 2")

- ■ Drop into any pinta acoustic or standard ceiling grid system

Panels (24" x 48" x 2")

- ■ Attach in seconds to wall and/or ceiling surface with pinta's acouSTIC water-based adhesive or hook and loop or other mechanical systems

Baffles (24" x 48" x 2")

- ■ Equipped with grommets, easily installed on ceiling-mounted cables or chains

Physical Data—willtec Core

Material ASTM G21	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302°F
Fire Resistance	Class 1 per ASTM E 84 Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5
Smoke Density per ASTM E 84	Natural: 50
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per

Physical Data—FR Taffeta Vinyl

Material ode	4.00 mil PVC film
Flammability	Meets California fire marshal requirements section 13115 CA Health and Safety C

Sound Absorption—Ceiling Tiles
Test ASTM C423-07; Mounting Type E

Frequency (Hz)	2" Thickness
125	0.57
250	0.67
500	0.91
1000	0.90
2000	0.43
4000	0.19
NRC	0.75

Sound Absorption—Wall Panels
Test ASTM C423-07; Mounting Type A

Frequency (Hz)	2" Thickness
125	0.18
250	0.75
500	1.21
1000	0.82
2000	0.40
4000	0.25
NRC	0.80

Sound Absorption—Baffles
Sabins per Baffle per ASTM C423-07; Hanging Baffle

Frequency (Hz)	2" Thickness
125	1.88
250	5.23
500	10.33
1000	11.84
2000	5.33
4000	2.99
Average	8.20

Whisperwave Products

- ➢ Standard and custom wave designs
- ➢ Exceptional acoustical control across all frequencies
- ➢ Offered in panel, baffle, ceiling cloud and awning options
- ➢ Easy installation
- ➢ Class 1 fire-rated

Applications:
- ✓ Classrooms
- ✓ Cafeterias
- ✓ Entertainment facilities
- ✓ Multipurpose rooms
- ✓ Indoor swimming pools
- ✓ Offices
- ✓ Libraries
- ✓ Religious facilities
- ✓ Other large open areas

WHISPERWAVE Panels, Baffles, Ceiling Clouds and Awnings provide exceptional acoustical control and design flexibility. Lightweight and easy to install, WHISPERWAVE products are ideal for use in classrooms, cafeterias, multipurpose rooms, indoor swimming pools, offices, libraries, religious facilities and other large open areas.

Installation

WHISPERWAVE Panels
- ■ Mounts to ceilings or walls using acouSTIC adhesive

WHISPERWAVE Baffles
- ■ Corkscrew hangers are installed in the field for either wall-to-wall cable installation or ceiling-mounted cable installation
- ■ Can be aligned in the same direction or arranged so that every other baffle is turned 90 degrees

WHISPERWAVE Ceiling Cloud
- ■ Corkscrew hangers are installed in the field for ceiling-mounted cable installation

WHISPERWAVE Awning
- ■ Install track on the wall to support wall side of awning
- ■ Corkscrew hangers are installed in the field for ceiling-mounted cable installation

Sizes

WHISPERWAVE Wall Panels
- ■ Any dimension up to 48" x 96"
- ■ Custom panel sizes available
- ■ Can be joined for long ribbon appearance
- ■ 1-1/2", 2" and 3" thicknesses

WHISPERWAVE Baffles
- ■ Any dimension up to 48" x 96"
- ■ Custom baffle sizes available
- ■ 2" and 3" thicknesses

WHISPERWAVE Ceiling Clouds and Awnings
- ■ Any dimension up to 48" x 96"
- ■ Custom sizes also available
- ■ 2-1/2" and custom thicknesses

Material

WHISPERWAVE is made from willtec® foam, which is Class 1 fire-rated for flame spread and smoke density. willtec natural also meets the corner burn test UL 1715. WHISPERWAVE is offered in natural white and grey and can be HPC-coated.

Physical Data—willtec

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cubic ft. (ASTM D3574-77)
Long-Term Service Temperature	302° F
Fire Resistance	Class 1 per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5 HPC-coated: 15
Smoke Density per ASTM E 84	Natural: 50 HPC-coated: 150
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Toxicity	Passes University of Pittsburgh Toxicity of Smoke Emission test
Finishes	Natural White, Grey or HPC-coated

Sound Absorption—WHISPERWAVE Baffles

Finish	Thickness	Sabins per 24" x 48" Baffle per ASTM C423-90a						
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Ave.
Natural White or Grey	2"	1.0	5.4	10.8	16.3	18.7	24.0	12.7

Sound Absorption—WHISPERWAVE Ceiling Clouds/Awnings

Finish	Thickness	Sabins per 48" x 96" Ceiling Cloud per ASTM C423-07						
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Ave.
Natural White or Grey	2-1/2"	6.4	22.1	44.3	55.9	58.9	60.6	45.3

Sound Absorption—WHISPERWAVE Panels

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
Natural White or Grey	2"	0.11	0.33	0.85	1.05	1.09	1.06	0.85	B
	3"	0.09	0.68	1.20	1.18	1.12	1.05	1.05	A
HPC-coated (Black, Grey, White, Almond)	2"	0.13	0.41	1.02	1.18	1.18	1.13	0.95	0B
	3"	0.13	0.85	1.25	1.22	1.13	1.14	1.1	A

Sonex Curtains – Barrier Septum

- ➢ Absorptive layer on both sides
- ➢ Prevents sound transmission
- ➢ Rugged and durable
- ➢ Customizable

Applications:
- ✓ Use as acoustical divider between two noise sources or separate noisy areas from quieter spaces
- ✓ Keep noise out of offices adjoined to manufacturing areas
- ✓ Separate machine or work stations where both sides need sound absorption and noise containment
- ✓ Isolate and absorb noise around compressors, punch presses, vibratory bowls, granulators, turning machines or other noisy equipment
- ✓ Use as walls of acoustical enclosures or partitions in manufacturing areas
- ✓ Install as a liner for the interiors of pre-existing enclosures to further reduce noise levels
- ✓ Suitable for some outdoor applications

SONEX Curtains BS combine sound absorption and noise barrier properties into one product. An effective "sandwich" of layers, SONEX Curtain BS consists of quilted vinyl-faced layers of willtec® foam bonded on both sides of noise barrier material producing a curtain that both contains and absorbs noise. They are ideal for areas where noise sources are on both sides of the curtain.

SONEX Curtains BS are designed for use as noise barrier walls. They can be custom manufactured to integrate as a complete acoustical enclosure system giving access to machines or work cells. They are available in 25' rolls with finished or unfinished edges. Flexible barrier septum, high Sound Transmission Coefficients (STC), impressive Noise Reduction Coefficients (NRC) and tough, durable, washable facings make SONEX Curtain BS an excellent choice for effective noise control on any size project.

SONEX Curtains BS are easy to install. Curtain hardware, hanging mechanisms and configuration options include clear vinyl windows, grommets, hook and loop fasteners, doors and sliding tracks. The standard facing material is a vinyl-coated fabric in grey, white, tan or black.

SONEX Curtain BS Product Specifications

Construction	One layer quilted willtec® acoustical foam bonded to 1 lb./sq. ft. loaded vinyl barrier bonded to one quilted layer of willtec
Facing Material	Standard: Vinyl-coated fabric (grey, white, tan, black) Optional: Hi-temp silicone-coated fabric, decorative cloth fabric or non-woven porous scrim fabric
Surface Pattern	Diamond-quilted pattern or straight-stitch pattern
Density	willtec foam: 0.7 lb./cubic ft. Barrier: 1lb./sq. ft.
Flammability	Class 1 per ASTM E84
Flame Spread	21
Smoke Density	171

Sound Absorption Coefficients

Type G Mounting ASTM C423-90

	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC
BS-1	0.21	0.51	0.74	1.19	0.61	0.31	0.75

Sound Transmission Data

ASTM E90-75 ASTM E413-73

	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	STC
BS-1	15	19	21	24	42	48	25

Sonex Curtains – Quilted Absorber

- ➢ Customizable
- ➢ Absorbs noise
- ➢ Rugged and durable
- ➢ Available in rolls

Applications:
- ✓ Line inside of welding booths with panels made with silicone-facing option
- ✓ Add absorption to pre-existing walls or partitions
- ✓ Adhere to walls to reduce general noise level in rooms or buildings
- ✓ Install as ceiling baffles with hanging mechanisms
- ✓ Improve communication in high-traffic areas and corridors
- ✓ Reduce reverberation in large manufacturing environments
- ✓ Suitable for some outdoor applications

SONEX Curtain QA combines the sound absorbing features of willtec® foam with the advantages of durable, cleanable and abrasion-resistant facings. These panels withstand a wide range of temperature limits and are unaffected by humidity, dust, dirt, oils and most chemicals.

SONEX Curtain QA can be custom manufactured to integrate as a complete acoustical enclosure system giving access to machines or work cells. They are also available in 25' and 50' rolls with finished or unfinished edges.

SONEX Curtains QA are easy to install. Curtain hardware, hanging mechanisms and configuration options include clear vinyl windows, grommets, hook and loop fasteners, doors and sliding tracks. The standard facing material is a vinyl-coated fabric in grey, white, tan or black.

SONEX Curtain QA Product Specifications

Construction	Single or double layer quilted willtec acoustical foam
Facing Material	Standard: Vinyl-coated fabric (grey, white, tan, black)
	Optional: Hi-temp silicone-coated fabric, decorative cloth or non-woven porous scrim fabric
Surface Pattern	Diamond-quilted or straight-stitch patterns
Density	willtec foam: 0.7 lb./cubic ft.
Flammability	Class 1 per ASTM E84
Flame Spread	25
Smoke Density	57

Sound Absorption Coefficients

Type G Mounting ASTM C423-90

	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC
QA-1	0.09	0.28	0.74	0.58	0.38	0.25	0.50
QA-2	0.14	0.55	0.96	0.73	0.36	0.25	0.65

Sonex Curtains – Barrier Backed

- ➢ Absorbs and contains noise
- ➢ Easy access to machines
- ➢ Rugged and durable
- ➢ Customizable

Applications:
- ✓ Isolate and absorb noise around compressors, punch presses, vibratory bowls, granulators, turning machines or other noisy equipment
- ✓ Custom made "acoustical jackets" on blowers, fans or compressor housing
- ✓ Separate workstations from noisy high-traffic areas
- ✓ Provide sound containment and absorption in noisy areas
- ✓ Suitable for some outdoor applications

SONEX Curtain BB is a composite that features sound absorptive willtec® foam quilted with a vinyl facing on one side, bonded to a reinforced noise barrier material. This product provides both excellent sound transmission loss and sound absorption performance.

SONEX Curtain BB is ideal for use as barriers, independent walls, partitions or acoustical screens to isolate noisy machines or specific areas. The combination of barrier and willtec foam contains and absorbs noise in almost any manufacturing environment where durability and dependability are required.

SONEX Curtain BB can be custom manufactured to integrate as a complete acoustical enclosure system giving access to machines or work cells. They are also available in 25' rolls with finished or unfinished edges.

SONEX Curtains BB are easy to install. Curtain hardware, hanging mechanisms and configuration options include clear vinyl windows, grommets, hook and loop fasteners, doors and sliding tracks. The standard facing material is a vinyl-coated fabric in grey, white, tan or black.

SONEX Curtain BB Product Specifications

Construction	One or two layers quilted willtec® acoustical foam bonded to 1 lb./sq. ft. reinforced barrier
Facing Material	Standard: Vinyl-coated fabric (grey, white, tan, black) Optional: Hi-temp silicone-coated fabric, decorative cloth fabric or non-woven porous scrim fabric
Surface Pattern	Diamond-quilted pattern or straight-stitch pattern, embossed barrier
Density	willtec foam: 0.7 lb./cubic ft. Barrier: 1lb./sq. ft.
Flammability	Class 1 per ASTM E84
Flame Spread	21
Smoke Density	171

Sound Absorption Coefficients

Type G Mounting ASTM C423-90

	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC
BB-1	0.19	0.66	0.76	0.66	0.48	0.35	0.65

Sound Transmission Data

ASTM E90-75 ASTM E413-73

	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	STC
BB-1	15	18	22	30	42	48	27

Prospec Barriers
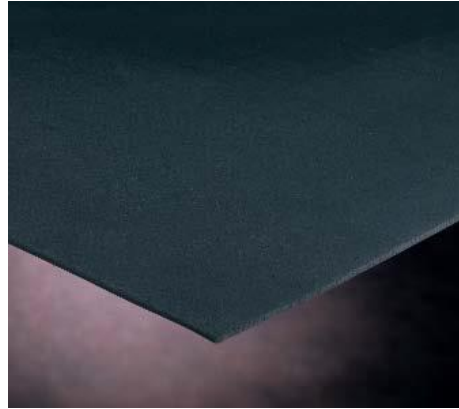
- ➢ Reinforced, non-reinforced and clear
- ➢ Ideal for containing noise and minimizing sound transmission through walls and/or ceilings
- ➢ Hang it like a curtain, weave it inside a wall cavity, or mount it over an existing wall to help contain noise

Applications:
- ✓ Home theaters
- ✓ New construction in apartment/condominium complexes
- ✓ Hotels
- ✓ Convention centers
- ✓ Offices
- ✓ Schools
- ✓ Manufacturing facilities
- ✓ Machine enclosures
- ✓ Recording studios
- ✓ Hospital and clinics

Installation:
Reinforced and Clear Barriers

- ■ Can be stapled, nailed, screwed, glued or grommeted. They can also be hung like curtains from ceilings or support frames.
- ■ When hanging, use screws with washers to attach the top edge or clamp into place with a strip of wood or metal.
- ■ Designed for indoor use only.
- ■ Be sure to overlap seams between sheets of barrier.

Installation:
Non-reinforced

- ■ Wrap or lay barrier over noisy objects.
- ■ Hold in place with nails or screws with washers or staples.
- ■ When applied to an existing wall, first apply furring strips intermittently along entire wall surface, and then attach the barrier to the furring strips for added support and improved performance.
- ■ In new construction, thread barrier through staggered studs as shown in the sketch below.
- ■ Glues are not recommended for long-term support.

PROSPEC Barriers are an optimal solution for isolating noisy machinery or improving the transmission loss of substandard walls and ceilings. This one pound per square foot loaded vinyl sheeting is engineered to stop noise transmission. PROSPEC Barrier will not resonate and when properly installed, will provide a high level of sound containment.

The reinforced barrier has an interior mesh-like material allowing it to be hung like a curtain around the noise source. Office applications often involve using the barrier as a wall extension from the wall/ceiling junction up through the plenum to the deck. Other applications include installing it as a partition between manufacturing cells or around machines to help prevent the noise from reverberating through adjacent areas.

The non-reinforced barrier is designed to be attached to walls, unrolled on top of suspended ceilings or woven between studs of a staggered-stud wall construction. To properly support the weight of this product when installed vertically, it is recommended to attach the barrier with nails or screws and washers or staples along the top edge and uniformly throughout the height and length of the barrier sheet.

Clear barrier is a see-through curtain material engineered to block sound without blocking vision. It is perfect for surrounding equipment and work areas where noise reduction is required and visual observation a must. PROSPEC Clear Barrier is resistant to fading and yellowing, easy to cut and install, and won't shrink after installation.

Physical Data—PROSPEC® Barriers

	Non-reinforced (Black)	Reinforced (Grey)	Clear
Material	1 lb./sq. ft. polyvinyl chloride (PVC) barrier	1 lb./sq. ft. loaded vinyl with polyester scrim reinforcing	1 lb./sq. ft. clear unreinforced barrier sheet
Surface	Smooth	Pebble-textured on one side	Smooth
Color	Black	Grey	Clear
Specific gravity	2.5	1.8 - 2.0	N/A
Flexibility	Limp	Limp	Limp
Tensile Strength	500 psi	200 psi	2400 psi
Tear Strength	–	60 ppi	325 ppi
Die C Tear	ASTM D412 100 lbs.	–	–
Elongation	200%	N/A	370%
Flammability*	Passes MVSS 302 UL-94 HF	UL94V-1	N/A
Operating Temp	-20 to +180 degrees Fahrenheit	-40 to +200 degrees Fahrenheit	0 to 150 degrees Fahrenheit
Thickness	⅛"	⅛"	⅙"
Size	54"x20', 54"x30', 54"x60'	54"x20', 54"x60'	48"x60'

* Check with local building codes.

Sound Transmission Loss

Transmission Loss Data

Type	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	STC
Clear	14	19	23	28	33	37	26
Reinforced	13	17	21	28	33	40	26
Non-reinforced	13	17	22	26	32	37	26

Prospec Foam

- ➤ Ideal for controlling excessive machine noise
- ➤ Excellent sound absorption across all frequencies
- ➤ HPC-coated for added durability
- ➤ Panel size of 24" x 48" in 1" Thickness

PROSPEC Foam made from willtec® is ideal for controlling noise at its source. When used to line compartments, machine enclosures or air vents, PROSPEC foam panels help reduce the high noise levels by absorbing the sound energy around and within the space. The panels can also be adhered to a partition or wall facing the noise source to lessen the reverberation and sound reflections.

PROSPEC Foam Panels are quick and easy-to-install on any wall and/or enclosure surface with pinta's acouSTIC adhesive. Please refer to our installation sheet for more information.

The HPC-coated surface protects the foam core and is resistant to water, oils and solvents making it ideal for industrial environments with problematic mid- and high-frequency sounds.

Physical Data—willtec foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cubic ft. (ASTM D3574-77)
Long-Term Service Temperature	302° F
Fire Resistance	Class 1 per ASTM E 84 (all finishes)
Flame Spread per ASTM E 84	HPC-coated: 15
Smoke Density per ASTM E 84	HPC-coated: 150
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	HPC-coated

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
HPC-coated	1"	0.00	0.26	1.01	0.82	0.68	0.60	0.70	A

Prospec Composite

PROSPEC Composite combines the benefits of both willtec® acoustical foam and the noise containment capabilities of vinyl barrier into one durable product consisting of :

➢ 1" thick layer of HPC-coated willtec foam, to absorb noise.

➢ 1/8" thick noise barrier, to contain noise and reduce sound transmission.

➢ 1/4" thick willtec decoupler to provide air space between the barrier and the mounting surface for optimal noise containment. This decoupler helps to insulate the barrier from vibrations in the wall.

PROSPEC Composite is an attractive solution for absorbing and containing noise and vibrations in many different types of settings. The panels come standard with a convoluted surface and gray HPC facing for easy clean-up. Rugged Tedlar® facing is available to withstand harsher chemicals and cleaning. Aluminized Mylar® is also available for special applications.

Applications
- ✓ Over substandard walls between manufacturing plant and offices
- ✓ To line thin enclosures around machinery, air compressors or similar noise sources
- ✓ In engine compartments
- ✓ Under machinery hoods

Physical Data

Material	1" open-cell willtec bonded to $\frac{1}{8}$" loaded vinyl barrier with $\frac{1}{8}$" willtec decoupler layer
Surface Pattern	Sculpted – HPC-coated surface absorbs sound waves
Density	willtec foam 0.7 pounds per cubic foot
Tensile Strength	8 PSI
Flammability	Class 1 per ASTM E84
Flame Spread	HPC-coated Foam – 15
Smoke Density	HPC-coated Foam – 150

Frequencies Hz	ASTM E90-90 Transmission Loss	Frequencies Hz	ASTM C423-90a Sound Absorption Coefficients*
125	17	125	0.13
250	22	250	0.60
500	20	500	0.81
1000	32	1000	0.97
2000	31	2000	1.00
4000	43	4000	0.90
STC**	28	NRC	0.85

**Estimated

*Type B Mounting

Prospec Pipe Lagging

- STC = 27
- Ideal for controlling pipe noise
- Easy installation with optional adhesive backing
- Operating temperature up to 140 degrees Fahrenheit

Installation
- Install with the foam decoupler side on the pipes or various substrates.
- Adhere or mechanically fasten to the pipes or various substrates.

PROSPEC Pipe Lagging is ideal for many industrial uses. Use it to reduce noise created by loud vibrating pipes or stop sound transmission through various substrates.

PROSPEC Pipe Lagging combines the benefits of both PROSPEC non-vinyl barrier and willtec acoustical foam into one durable product consisting of:

- 1/4" thick willtec foam decoupler used to absorb noise. The foam creates air space so that the barrier doesn't take on the vibration of the pipes or various substrates.
- 1/8" thick PROSPEC non-reinforced vinyl barrier. The barrier contains the noise and reduces sound transmission.
- Optional pressure-sensitive adhesive backing for easy installation

Physical Data	PROSPEC Pipe Lagging	Product Component willtec Acoustic Foam	Product Component PROSPEC Barrier
Material	PROSPEC barrier adhered to willtec foam	1/4" thick willtec foam	1/8" PROSPEC Non-reinforced (EVA) barrier
Surface Pattern	N/A	Soft & flat with small pores	Smooth
Color	Natural Grey & Black	Natural Grey	Black
Sizes	3/8" X 24" X 48" Sheets 3/8" X 48" X 24' Rolls	1/4" Thick 1/4" Thick	1/8" Thick 1/8" Thick
Specific Gravity	N/A	N/A	2.5
Density	N/A	0.7 lbs./cubic ft.	1lb/sq. ft.
Tensile Strength	N/A	8 psi (ASTM D3574-77)	180 psi
Tear Strength	N/A	N/A	50 ppi
Elongation	N/A	8% (ASTM D3574-77)	200%
Heat Conductivity	N/A	k factor = 0.24 at 50°F, R value = 4.2	N/A
Operating Temperature	140°F Max	0 to 302°F	140°F Max
Flammability	N/A	Class 1 fire-rated (ASTM E84)	Passes MVSS 302
Flame Spread	N/A	5	N/A
Smoke Density	N/A	50	N/A

Frequencies Hz	Transmission Loss (ASTM E90-90 & E413-87)
125	15
250	18
500	22
1000	30
2000	42
4000	48
STC	27

QuietGlue Pro

QuietGlue Pro is a high performance, low cost acoustical compound designed to be cost effective for commercial projects and small do-it-yourself projects.

QuietGlue® Pro Benefits:

- Easy to use
- Ideal for use with virtually any kind of wood or drywall
- Does not require special training
- Low VOC, water-based compound, solvent-free
- Lab tested in accordance with ASTM D3273 and E90

Product Specifications:

Model:	QuietGlue® Pro
Color:	Orange
Density:	1,030 kg/m
Solid content:	>70 wt %
Viscosity:	400,000 - 800,000 centipoise
Drying time:	24-48 hours
Coverage:	16 sqft/tube; 73 sqft/gallon
Storage temp:	40° F - 100° F (Do Not Freeze)
Working time:	15 minutes
Available sizes*:	28-oz tube, 1-gal pail, 5-gal pail, case of 12 28-oz tubes

* Tubes require a standard caulking gun. A bulk caulking gun is recommended for use with the 1 gallon and 5 gallon buckets.

QuietGlue® Pro Performance

QuietGlue Pro (STC 54) OL08-1102
5/8" gypsum (STC 40) OL05-1003
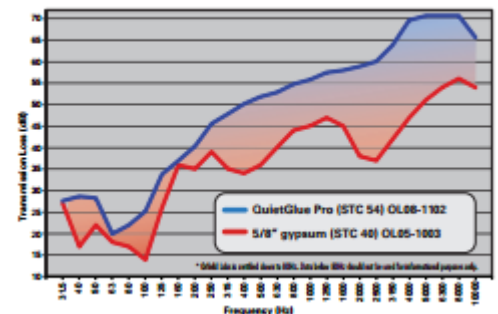
STOP THE NOISE IN 2 EASY STEPS
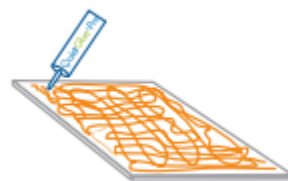
1 Dispense Glue
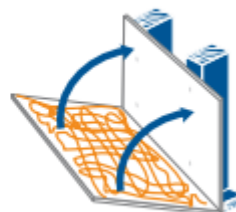
2 Screw onto wall

- ➢ Must be applied to a clean, non-porous surface, which is free of all oil, film, dust, rust, etc.
- ➢ Not generally recommended on painted surfaces, drywall, or ceilings of metal buildings
- ➢ Best results are obtained when ambient temperature is above 40 degrees F at time of application
- ➢ Temperature range for the foam tape is -20 degrees to 180+ degrees F
- ➢ Loading should not exceed 3 lbs. per anchor (.75 lb./sq. inch)
- ➢ Base must be applied with firm pressure. Do not twist during application. Do not remove release (backing) paper until ready to use
- ➢ Insulation may be applied immediately after bond is made

Impaling Pins
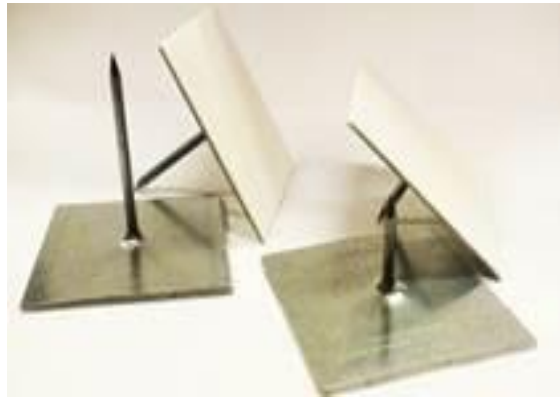
Impaling Pins are steel spindles with corrosion resistant coating. The base plate is 2" square and is made of galvanized steel with a pre-applied, pressure sensitive adhesive (PSA) protected by a release paper. Standard lengths are 3/4" and 1 5/8".

Self-Stick Insulation Anchors (Hangers)

Materials
Low Carbon Steel - PIN / Plate

Mechanical Properties
Low Carbon Steel - Plate
Also available by special order in all Stainless Steel or all Aluminum.

Plating
Galvanized coating is standard. - PIN / Plate

Washers
Self-locking washers are available in a variety of sizes, shapes, and materials.

Size - D
12 GA (0.105") is standard.
Other sizes available by special order only.

Length - L
1", 1-5/8", 2", 2-1/2", 3-1/2", 4-1/2", 5-1/2". 6-1/2", 8" and 9" are standard.
Other lengths available by special order.

acouSTIC Adhesive

- ➢ Nontoxic, water-based adhesive
- ➢ Easy cleanup with soap and water
- ➢ Compatible with both polyurethane and willtec® foams
- ➢ Each 10.5-ounce tube installs up to 32 square feet of product
- ➢ Available in case quantities of 24 tubes
- ➢ Tube fits standard caulking guns or can be used with pinta's applicator gun (part number PA-01)
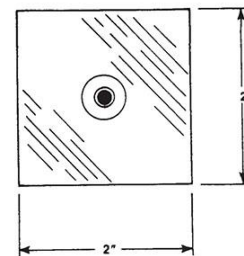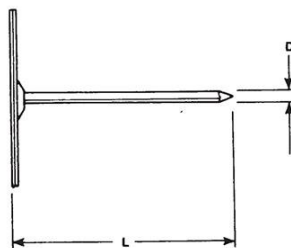
acouSTIC adhesive (part number PA-02) from pinta acoustic, inc. has been specially formulated to use with SONEX® Panels, FABRITEC Wall Panels, CONTOUR® Tiles and PROSPEC® Foams and Composites. This nontoxic, water-based adhesive makes installation hassle-free and provides a strong, permanent bond when adhering. Other adhesives may not be compatible with pinta products and may emit an odor.

General Installation Notes

- ■ Handle with care. Do not pick up or handle panels or tiles by the corners.
- ■ Store right side up and flat in a clean, dry area protected from the elements. Do not sit on, or stack anything on top of cartons.
- ■ Work with clean hands on a clean work surface. Wear clean cotton/canvas gloves for installation.
- ■ Use a sharp razor or fixed-blade knife and a metal straightedge to cut panels or tiles. The blade should be long and sharp enough to cut through the entire thickness of the foam. An electric carving knife works well.
- ■ For best results, cut panels from flat side.
- ■ To create visual flow of the SONEX Valueline pattern, space each panel 1" from adjacent panels.
- ■ When installing SONEX Classic or SONEX Junior, alternate the male and female patterns for a checkerboard look or install with 1" space between similar adjacent panels.
- ■ Overhead installations may require additional support and cure time until adhesive sets.

Installation with acouSTIC

- ■ Make sure both the panels and the surface to which the panels are being applied are dust- and dirt-free. If adhering to a metal surface, use a degreaser.
- ■ Cut end of adhesive tube to produce a ¼" bead.
- ■ First apply a ¼" line of adhesive around the perimeter of the panel approximately 1" from the edge.
- ■ Next, apply a ¼" line of adhesive from opposite corners through the center of the panel, creating an "X."
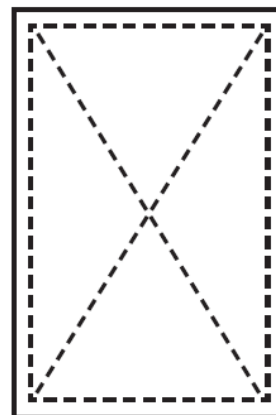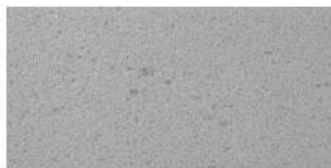
- ■ Press panel into place and hold for 5 seconds. Then pull panel away from the surface for 1 minute to allow adhesive to become tacky.
- ■ Press the panel back into position and hold again for 5 seconds.
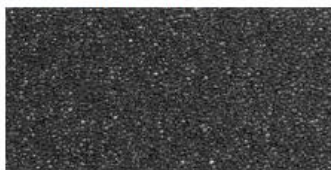
Foam Color Chart

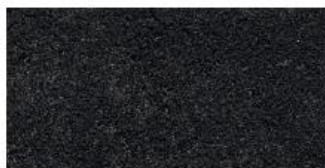**Natural willtec®**
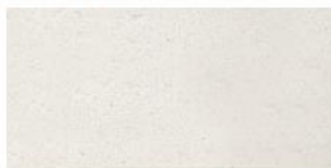
white

grey

colortec®

charcoal

HPC-coated* willtec

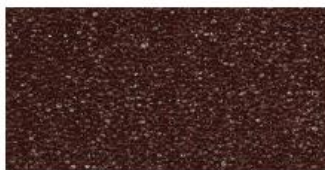black/black onyx

light grey/grey mist

white/arctic white

almond

medium grey/graphite

light blue/sky

ivory/eggshell

Natural Polyurethane

charcoal

brown

beige

Custom colors also available.

Fabritec Color Chart

561 Verte Papier	539 Bleu Papier	405 Lavender N.	400 Cherry N.	402 Green N.	401 Blue N.	752 Lilac	390 Rose Quartz
549 Chrome Green	175 Crystal Blue	753 Violet	545 Bronze	381 Aquamarine	486 Bayberry	424 Amethyst	475 Sienna
756 Lake	150 Wedgewood	553 Blue Plum	556 Deep Burgundy	470 Ultramarine	153 Baltic	408 Black	418 Claret Accent
538 Silver Papier	380 Quartz	748 Bone	749 Dune	394 Opal	481 Pearl	130 Wheat	468 Eucalyptus
750 Cement Mix	758 Desert Sand	460 Buff	757 Stream	406 Silver N.	404 Apricot N.	747 Straw	755 Leaf
238 Grey Mix	751 Terra	403 Vanilla N.	754 Light Moss	298 Medium Grey	422 Cinnabar	423 Pumice	467 Blue Spruce

Custom colors also available.

Contour Pattern Chart

■ Basix 1 & 2   ■ Classic   ■ TriLine   ■ TriLine Corner
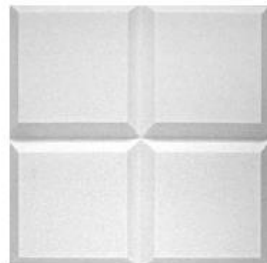
■ Matrix 2*   ■ Matrix 4*   ■ Matrix 6*   ■ Allusion

■ Horizon   ■ Panorama   ■ Spectrum   ■ Crosspoint

■ Mosaic   ■ Vision

Standard colors include Almond, Arctic White, Black Onyx and Grey Mist.
Custom patterns and colors are available upon request.
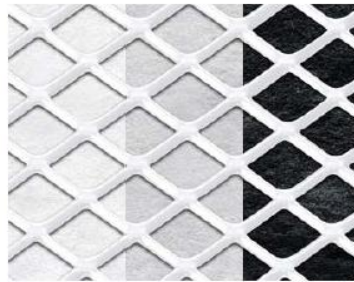** Not available in adhesive-mount version.*

Clean Color Chart

white	Black	Cobalt	Scarlet	Raspberry	Cinnamon
Forest	Spring Green	Peach	Teal	Grape Mist	Violet
Slate	Sunglow	Lemon	French Vanilla	Caribbean	

Squareline Color and Pattern Chart

■ **SQUARELINE Standard**
Chrome Metal with White, Light Grey
or Black Fleece Backer

■ **SQUARELINE Standard**
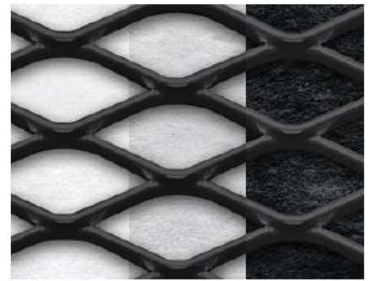White Metal with White, Light Grey
or Black Fleece Backer
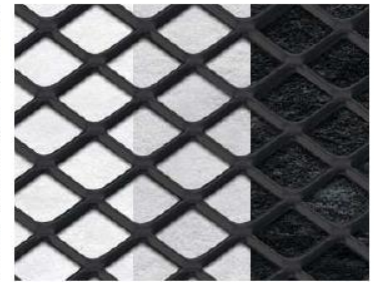
■ **SQUARELINE Standard**
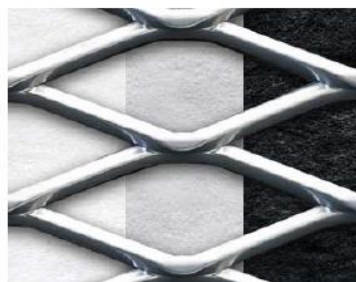Black Metal with White, Light Grey
or Black Fleece Backer
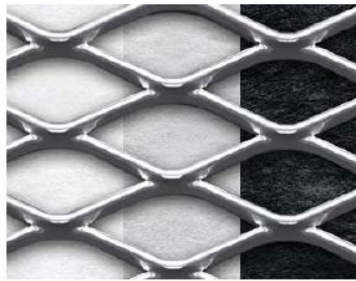
■ **SQUARELINE Medium**
Chrome Metal with White, Light Grey
or Black Fleece Backer
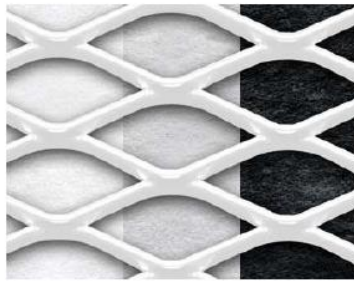
■ **SQUARELINE Medium**
White Metal with White, Light Grey
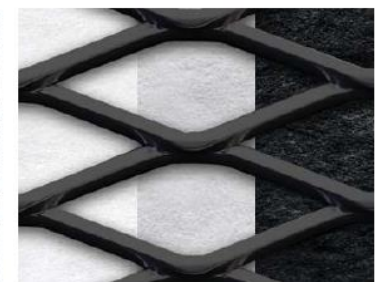or Black Fleece Backer

■ **SQUARELINE Medium**
Black Metal with White, Light Grey
or Black Fleece Backer

■ **SQUARELINE Ultra**
Chrome Metal with White, Light Grey
or Black Fleece Backer

■ **SQUARELINE Ultra**
White Metal with White, Light Grey
or Black Fleece Backer

■ **SQUARELINE Ultra**
Black Metal with White, Light Grey
or Black Fleece Backer

Noise Cancelling Earmuffs

- ➢ Electronic noise cancellation protection
- ➢ Passive protection
- ➢ 3.5 mm audio jack
- ➢ Comfortable and lightweight
- ➢ Durable

The SONEX NoiseBuster ENC Earmuff includes:
- ✓ Durable carrying case, 13.5" x 9" x 4.3" (342.9 mm x 228.6 mm x 109.22 mm)
- ✓ AA battery
- ✓ 3.5 mm audio interface cable, 20" (50 cm) in length

SONEX NoiseBuster Electronic Noise Canceling (ENC) Earmuff combines superior passive hearing protection with the most advanced electronic noise cancellation technology.

The SONEX NoiseBuster ENC Earmuff is designed specifically to provide high performance ear protection and increased safety for the industrial worker. It is also an excellent choice for do-it-yourself users of lawnmowers and power tools, and for motor sports fans when used in conjunction with scanners. You can even listen to your portable audio player while wearing your SONEX NoiseBuster ENC Earmuff. The product delivers up to 20dB of electronic noise cancellation and has a passive Noise Reduction Rating (NRR) of 26dB (over-the-head).

The electronic noise cancellation technology utilized in the SONEX NoiseBuster integrates a microphone inside the ear cup that listens to noise coming into the ear. The system analyzes that information electronically and creates a noise wave that is directly opposite, cancelling the one coming into the ear. The "anti-noise" wave is transmitted through a speaker, also located in the ear cup. When the two waves (the noise wave and the anti-noise wave) meet, the noise is significantly reduced.

Since the SONEX NoiseBuster ENC Earmuff incorporates both electronic noise cancellation and passive protection components, it is superior to conventional, solely passive protective earmuffs.

The electronic noise cancellation protection component is the most effective defense against low-frequency noises like those generated by engines, fans and motors. The passive protection component is the most effective defense against mid- and high-frequency noise such as speech and saws.

Features
- ■ On/off switch and power indicator
- ■ Stereo input 3.5 mm audio jack
- ■ Up to 65 hours of use on a single AA battery
- ■ Adjustable headband
- ■ Resistant to water and moisture, contaminants, mechanical shock and vibration
- ■ 6-month warranty

Specifications
- ■ Storage temperature: -104°F to +185°F (-40°C to +85°C)
- ■ Operating temperature: +32°F to 131°F (0°C to +55°C)
- ■ Audio cable length: 20" (50 cm)
- ■ Power: one AA battery

Benefits
- ■ Hearing protection: experience noise reduction across the full range of frequencies
- ■ Safety: hear critical speech communications more clearly
- ■ Usability: listen to music or radio communications at lower, less damaging volumes
- ■ Durability: tough molded ABS plastic earmuff and metal headband
- ■ Comfort: soft, pliable ear cushions and cushioned adjustable headband
- ■ Wearability: product weight with battery 17 oz.

Electronic and Passive Noise Cancellation
- ■ ENC performance range: Between 20Hz and 800Hz
- ■ ENC attenuation: 20dB between 100Hz and 200Hz, 0dB crossover at 20Hz and 800Hz
- ■ Passive attenuation: NRR 26dB / CSA Class A (over-the-head)

Replacement parts and Accessories
- ■ Speedy battery charger: for Ni-MH or Ni-Cd rechargeable batteries
- ■ Self-stick supplemental headband cushion
- ■ Self-stick replacement ear cushions
- ■ Hygiene kit: includes two self-stick ear cushions with foam inserts
- ■ Battery door assembly: includes outer rubber boot, plastic cover and screws

ANSI S3.19-1974 Test Data

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	ENC	CSA
Over-The-Head Mean Attenuation Value (dB)	17.5	22.3	30.6	37.3	34.7	40.2	44.6	43.7	44.9	26	20	A

Noise Killer Liquid

Applications
- ✓ Manufacturing
- ✓ Vibratory Feeding Bowls
- ✓ Buses & RVs
- ✓ Stamping Equipment
- ✓ Car Audio Systems
- ✓ Street Rods
- ✓ Experimental Aircraft
- ✓ RVs Vibratory Feeders
- ✓ Air Ducting
- ✓ Off Road Vehicles
- ✓ Auto Restorations
- ✓ Boats
- ✓ Home Appliances

Noise Killer is a vinyl based material used for vibration damping and improves transmission loss in materials such as metal, wood, glass, ceramics and most plastics.

Instead of trying to cover up the sound, Noise Killer Liquid works like a cure for the vibration problem. It actually gets rid of the vibration by converting it into low-grade heat. Spray, roll or brush on Noise Killer to stop unwanted vibrations and sounds in almost anything. Everything from a car that's too loud at freeway speed to a large factory with heavy equipment can benefit from it.

Quantities
- ➢ 1 gallon bucket
- ➢ 5 gallon bucket

Installation Instructions

1. Prepare surface to be treated by cleaning with an oil-free cleaner so as to remove all traces of oil, grease, dirt, paint scale, rust, residue etc.
2. If bare metal is exposed in Step 1, prime surface with a good quality primer paint and allow to completely dry or cure.
3. Mask off area to be treated, paying special attention to protect electrical and moving parts from Noise Killer.
4. Be sure to stir thoroughly to blend Noise Killer before application. A power mixer is recommended.
5. Apply Noise Killer:

For Spraying Application

1. Noise Killer can be applied with different spray techniques.
2. Noise Killer is a thick material and can be thinned with a small amount of water (2 – 5 % by Volume, No More Than 6.5 oz. per gallon). This thinning may enhance spraying operation and will change the surface texture to a smoother finish.
3. Refer to your specific equipment's instructions for all operational aspects of your spray equipment.
4. Apply at least two (2) coats, allowing at least an hour to dry between coats. A coating thickness of 1/16" is desirable for noise cancellation.
5. After each coat, check for any interference with moving parts and wipe off any excess material. Coverage is 30 to 32 sq. ft. per gallon.

For Brush or Roller Application

1. Noise Killer is a thick material and can be thinned with a small amount of water.
2. (2 – 5 % by Volume, No More Than 6.5 oz. per gallon). This thinning may allow for easier application and will result in a smoother finish.
3. A coating thickness of 1/16" is desirable for noise cancellation.
4. Do not apply to moving parts or electrical parts. Check carefully and clean up excess material before it cures. Coverage is 30 to 32 sq. ft. per gallon.

Clean-Up

1. Clean up before Noise Killer cures. Use plenty of soap and water.
2. Noise Killer is water based, clean up, soap and water.
3. With spray equipment, flush thoroughly with water and completely dismantle and wash between uses. Noise Killer dries to a hard material and must be cleaned-up before curing.

Drying Time

1. One (1) hour between coats.
2. Twenty-four (24) hours to dry and handle.
3. Three (3) days to obtain most noise canceling ability.
4. Seven (7) days to fully cure.

Acoustical Enclosures

Memtech Acoustical has supplied and built many styles and types of acoustical enclosures encompassing a wide range of applications. Whether it's a NVH cell, anechoic/hemi-anechoic test chamber or noise containment enclosures, we will work with our customers from the initial noise study through the final construction. We will advise as to the many styles and options of acoustical enclosures available and make a recommendation based on the customers' need and performance goals

Metal Noise Enclosures are custom built with many different features, and are used in a wide range of applications. With our partners at George Koch Sons, we provide the highest quality and best engineered acoustical enclosures available. While providing superior sound attention, they also serve as a dust free climate controlled environment for sensitive equipment and testing operations.

Flexible Curtain Enclosures are often an effective and economic approach to noise control. These curtain enclosures are designed specifically for your need and are available with several options. Sound Seal curtains are the choice for many industrial applications and more.

ABS Noise Enclosures are custom designed, made with tough, impact resistant, ABS plastic. ABS withstands high temperatures which makes it an ideal material for machine and motor enclosures.

For additional styles of enclosures that are available, please give us a call 877.606.3940

Acoustical Barrier Walls

Acoustical Barrier Walls are used to block noise transmitted from one area to another. Barrier walls can be constructed out of metal, flexible composite curtains, or vinyl loaded barrier material.

Metal Acoustical Barriers are made with the same quality and performance as George Koch Sons' acoustical enclosures. This 4" thick wall panel comes with many options, sizes, and colors.

Acoustical Barrier Curtains can be used to construct partial enclosure walls, and portable panels. Curtains are available with many options and can be used for interior or exterior applications.

Loaded Vinyl Barrier is a cost effective solution to noise control. This reinforced vinyl material is suitable for industrial applications and more. We have the in shop capabilities to supply vinyl barrier curtains of any size and configuration.

For additional information, please give us a call 877.606.3940

Vibration Isolation and Mounts

Vibrations generated by machines and equipment are disturbing. The need to reduce vibration transmissions place increased demands on engineers and operators. Vibration insulation is therefore a must. Memtech Acoustical has partnered with the Airloc company because of their over 50 years' experience with providing quality products related to impact sound insulation and machine set up technology.

- • Adjustable Levelers
- • Damping Pads
- • Machine Mounts
- • Foundation Isolation

See Airloc Catalog for product details.

For additional information, please give us a call 877.606.3940
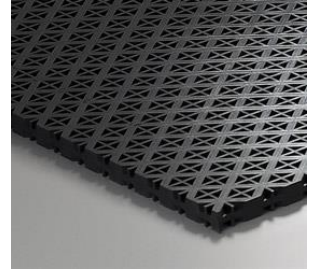
Sound Masking

Memtech Acoustical has supplied and installed CSM (Cambridge Sound Management) technology systems for our customers in the military, medical and educational fields. Sound masking has proved to be an effective solution to noise control in the workplace, eliminating employee distractions while improving productivity. It's also an indispensable tool in addressing the issues of speech privacy.

See Cambridge Catalog for product details.

For additional information, please give us a call 877.606.3940
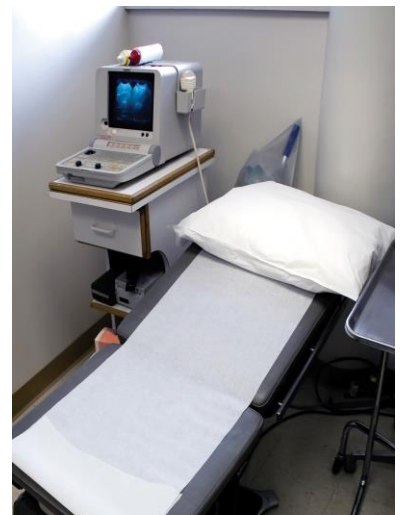
Acoustic Door and Window Seals

Zero door and window seals are the preferred choice of acoustic professionals worldwide. Memtech Acoustical has used Zero door seals effectively in recording studios, industrial applications and more. Zero's engineered gasketing system provides superb sound control performance. In addition to optimizing high STC solutions, Zero sound systems can also help architects and designers lower noise levels in hotels, office buildings, medical facilities, and schools. All of Zero's extensive acoustic product line from door and window seals to vision lite glass and more are available here.

See Zero International Catalog for product details.

For additional information, please give us a call 877.606.3940

Acoustic Doors and Windows

Metal Doors   Wood Doors   Fixed Windows

At Memtech Acoustical, we can provide a unique noise control solution that includes the preferred choice of acoustical doors and windows. Memtech Acoustical has installed acoustical door and window systems for our customers in a variety of applications. We have partnered with Overly Door due to their over 50 years of experience with designing, testing, and manufacturing Architectural Acoustic Door and Window Systems.
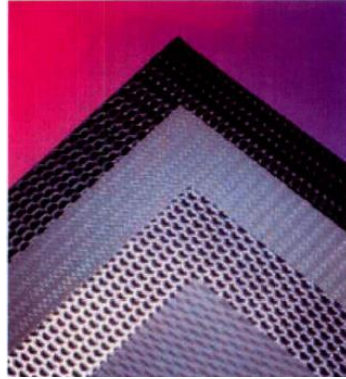
See Overly Door Acoustical Products Catalog for product details.

OVERLY
D O O R   C O M P A N Y

For additional information, please give us a call 877.606.3940

Noisemuncher

Metal

Metal Noisemuncher takes the spaced absorber principle one step further. The metal panel is micro cracked to create the ideal airflow resistance to optimally absorb the sound impinging on it. The low frequency absorption can be enhanced by increasing the air space behind it.
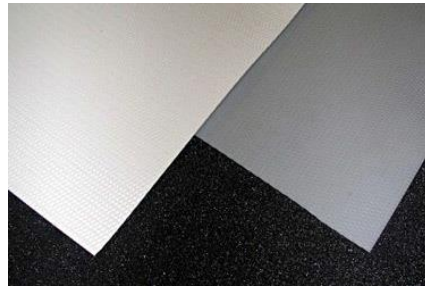
The low frequency absorption is further enhanced by adding thermal insulation such as Melamine Foam into the air cavity which resists the coupled volume resonances common in the low frequency region.

Metal Noisemuncher is aluminum as standard and is also available in steel and can be manufactured using pre painted metal in the required finish color.

Given care the aluminum can be powder coated without adversely affecting the acoustical properties. Please contact us for details.

Metal Noisemuncher offers superior acoustical performance both for sound absorption and sound transmission loss with a low installed cost. Using honeycomb core in panel construction creates a superior lightweight rigid acoustical panel which can be used to make unframed acoustical enclosures with excellent absorption and sound transmission properties.

- ✓ Totally combustion resistant
- ✓ One product for absorption, barrier and mechanical security
- ✓ Available in a variety of materials, thickness and pre painted finishes

Plastic

Plastic Noisemuncher takes the spaced absorber principle one step further. The High Density Plastic Sheet is micro cracked to create the ideal airflow resistance to optimally absorb the sound impinging on it. The low frequency absorption can be enhanced by increasing the air space behind it.

The low frequency absorption is further enhanced by adding thermal insulation such as Melamine Foam into the air cavity which resists the coupled volume resonances common in the low frequency region.

Plastic Noisemuncher is available in HDPE and can be manufactured using any commercially available color.

Although Plastic Noisemuncher is not as fire resistant as Metal Noisemuncher, its resistance to corrosion and moisture is unique in sound absorbing products.

- ✓ Totally corrosion resistant
- ✓ One product for absorption, barrier and mechanical security
- ✓ Available in a variety of materials, thickness and colors

For additional information, please give us a call 877.606.3940

Koolmat Insulation

- ✓ Improves your ride
- ✓ Improves your relationships with passengers
- ✓ STOPS 10000F. RADIANT HEAT
- ✓ LOWERS SOUND by 23 decibels- you can actually hear the radio or passenger speak while driving the car.
- ✓ THIN, so it fits under OEM factory carpets
- ✓ Abrasion resistant
- ✓ Mildew resistant
- ✓ Will follow all contours- very flexible
- ✓ COMPOSITE- no glues to burn off
- ✓ NO ASBESTOS involved in manufacturing
- ✓ EASY TO CUT with a box razor knife or scissors
- ✓ EASY TO INSTALL w/paste/ sprays/straps or rivets
- ✓ Available in bulk
- ✓ Available in precut kits
- ✓ WON'T CRACK
- ✓ WON'T PEEL
- ✓ WON'T DRY OUT
- ✓ WON'T CURL UP
- ✓ WON'T SPLIT
- ✓ Or SHRINK IN 50 YEARS
- ✓ Used by the TEAMS in NASCAR

Koolmat® is a high temperature composite insulation, consisting of densified silicone, cured directly into the surface and weave of a fiberglass mat. The materials are mechanically and permanently joined together during the manufacturing process without adhesives. This technique makes Koolmat® a truly homogenous one of a kind product, which will not separate, tear or easily puncture. Koolmat® is so unique that a US Patent protects it.

Koolmat® handles temperature extremes: The silicone side is suitable for continuous use at temperatures up to 500 degrees F. The fiberglass side will withstand temperatures up to 1100 degrees F. Koolmat® also performs well at low temperatures, remaining flexible down to -40 degrees F.

Koolmat® is watertight: Koolmat's® thick silicone rubberside provides a durable watertight surface. It insulates, as well as isolates, from the environment. There is no better weather resistant material than silicone.

Koolmat® is durable: Koolmat® will not burn, dry out, heat crack, hold moisture, or wear out under normal use. Race drivers on a budget will often use the same Koolmat insulation on several vehicles throughout many seasons. The thick silicone surface will not wear out or lose its thermal characteristics under normal use unlike most foil faced materials which easily get scuffed and dirty, resulting in loss of thermal performance.

Koolmat® kills noise: In addition to outstanding thermal performance, Koolmat® is an excellent sound deadener. Testing has shown Koolmat to reduce noise by as much as 23 decibels. In automotive applications, road and engine noise are significantly reduced with Koolmat.

Koolmat® is safe: Koolmat® contains no carcinogens like most ceramic blanket insulation, nor does it contain asbestos. Koolmat® is easy to install and safe to handle, making it one of the most versatile insulation materials available.

For additional information, please give us a call 877.606.3940

Noise Meters

Memtech Acoustical is an authorized Casella dealer.

- ✓ Wide dynamic range from 20 to 140 dB on single span
- ✓ A, C and Z simultaneous frequency weightings
- ✓ Slow, Fast and Impulse rms. time responses
- ✓ Large 240 x 320 pixel color ¼ VGA graphic display
- ✓ Easy to use menu structure
- ✓ Integrating capability for time average values
- ✓ Available in ANSI/IEC class 1 and class 2 accuracy
- ✓ Available as A version with broad band levels only
- ✓ Available as B or C version with real time octave & 1/3 octave band filters plus 3 broad band results A, C & Z
- ✓ Storage of all results simultaneously in a huge non-volatile memory
- ✓ Available as complete measurement kits with acoustic calibrator and case

<u>CEL-620 WIDE RANGE INTEGRATING SOUND LEVEL ANALYZER</u>

Many industrial measurements of complex noises require a complete knowledge of the variable noise level climate over a period of time. The CEL-620 meter is designed to satisfy this need and to enhance it by providing the capture and display of the highest maximum level and the lowest minimum level together with the integrated time average level.

A super wide 120 dB dynamic range means that the user does not need to worry about changing scales as it will always be on the right scale and the provision of all the popular frequency and time weightings allow many different measurements to be taken by new and experienced users alike.

The full-color, high-precision, graphic LCD enhances the user experience with this new meter.

For additional models and specifications, please give us a call 877.606.3940

Memtech Acoustical Services

Noise and Vibration Services
- ✓ Noise Analysis, Reporting and Abatement
- ✓ Machine Noise
- ✓ In Plant Noise
- ✓ Room Acoustics
- ✓ Community Noise
- ✓ Noise Barrier Design
- ✓ HVAC Systems
- ✓ OSHA Testing
- ✓ Property Line Survey
- ✓ Vibration consulting, testing and analysis
- ✓ Construction noise consulting

Installation Services
- ✓ Sound Attenuation (wall panels, baffles, barriers, etc.)
- ✓ Acoustical Enclosures (pre-built, custom in shop fabricating, other....)
- ✓ Certified Acoustical Door and Window Installers
- ✓ Acoustical Seals and Gasketing Systems
- ✓ Sound Masking Systems

Clients that we serve include:
- ✓ Industrial
- ✓ Commercial
- ✓ Government and Utilities
- ✓ Residential
- ✓ Educational
- ✓ Studios
- ✓ Medical

Give us a call; we look forward to working with you!

Memtech Acoustical, LLC

Your Source for Noise Control Solutions

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