Memtech Acoustical Product Catalog

YOUR SOURCE FOR NOISE CONTROL SOLUTIONS

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Sonex Valueline Baffles

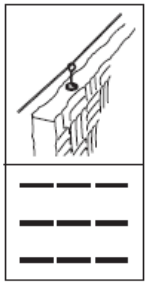
- ✓ Wall-to-wall hanging system saves labor time
- ✓ Easy installation
- ✓ Baffles reduce noise and reverberation

Applications:

- ✓ Gymnasiums
- ✓ Multipurpose rooms
- ✓ Large classrooms or music rooms
- ✓ Manufacturing facilities
- ✓ Warehouses
- ✓ Aquatic Centers and indoor pools

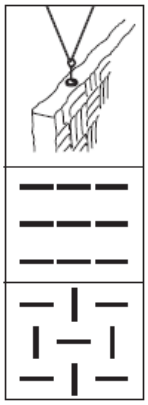
SONEX Valueline Baffles help improve communication and reduce echo/ reverberation in large open areas such as production plants, warehouses, gymnasiums and swimming pools. SONEX Valueline Baffles absorb sound energy from multiple sources, reducing noise and reverberation throughout the environment. Made 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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

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

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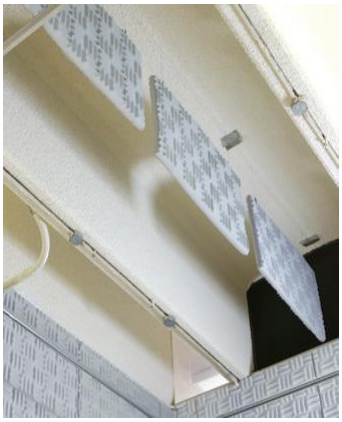
Sonex One Baffles



- ✓ 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./cu. ft. (ASTM D3574- 77)
Long-Term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

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

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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.

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)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

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

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

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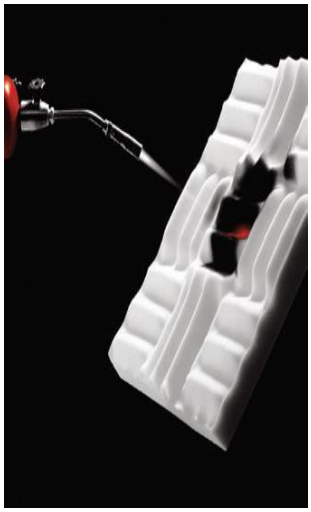
Sonex Valueline Panels



- ✓ 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 11/2", 17/8" or 21/2" 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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	Mounting Type
Natural (white and light grey)	1½"	0.08	0.29	0.73	0.94	0.97	0.89	0.75	B
	1⅞"	0.17	0.55	1.07	1.15	1.08	1.10	0.95	B
	2½"	0.19	0.62	1.15	1.21	1.14	1.20	1.05	B

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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./cu. ft. (ASTM D3574- 77)
Long-Term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	Mounting Type
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

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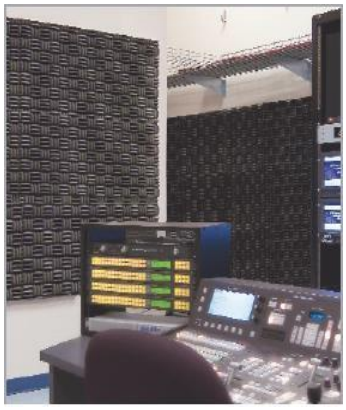
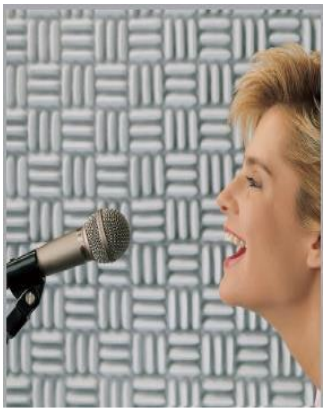
Sonex Classic Panels





- ✓ Famous anechoic wedge shape
- ✓ Noise Reduction Coefficient
- ✓ (NRC) ranging from 0.80 to 0.95
- ✓ 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 0.80 to 0.95. 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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	Mounting Type
Natural (white and grey)	2" (51 mm)	0.05	0.31	0.81	1.01	0.99	0.95	0.80	A
Water-based acoustic coated (standard, premium and custom colors)	2" (51 mm)	0.13	0.41	1.02	1.18	1.18	1.13	0.95	B

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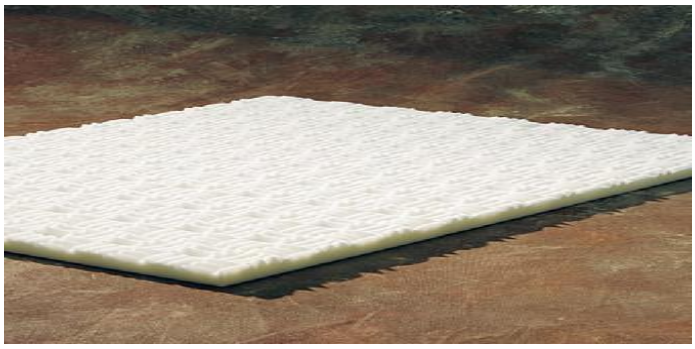
Sonex Mini Panels

- ✓ Smaller convoluted surface pattern
- ✓ Panel size of 24" x 48" by 1" or 1 and 1/2" 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 E84 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./cu. ft. (ASTM D3574- 77)
Long-Term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

Sound Absorption

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

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Sonex Junior Panels

- ✓ Famous anechoic wedge shape
- ✓ Noise Reduction Coefficient (NRC) ranging from 0.80 to 0.95
- ✓ 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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	Mounting Type
Natural (white and grey)	2" (51 mm)	0.05	0.31	0.81	1.01	0.99	0.95	0.80	A
Water-based acoustic coated (standard, premium and custom colors)	2" (51 mm)	0.13	0.41	1.02	1.18	1.18	1.13	0.95	B

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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./cu. ft. (ASTM D3574- 77)
Long-Term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	Mounting Type
Natural (white and grey)	2"	0.07	0.25	0.60	0.94	0.97	1.08	0.70	B
	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

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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.

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

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 1/16" fiberglass substrate

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

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willtec Sheets

- ✓ Open-cell, fiber-free melamine foam
- ✓ Excellent acoustic insulation
- ✓ Class 1 fire-rated
- ✓ Meets ASTM E84 and UL 1715 requirements
- ✓ Does not ignite at temperatures below 1120°F
- ✓ 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

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)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	Mounting Type
Natural (white and light grey)	1 ½"	0.08	0.29	0.73	0.94	0.97	0.89	0.75	B
	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

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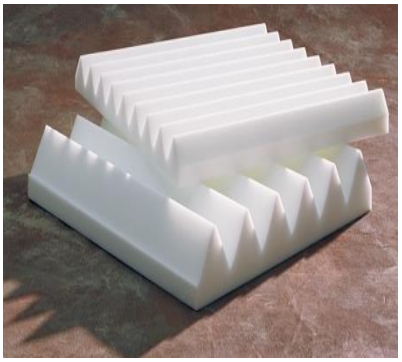
Sonex Tec Wedges





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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

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Contour Ceiling Tiles

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

Applications:

- ✓ Offices
- ✓ Call centers
- ✓ Lobbies
- ✓ Entertainment
- ✓ 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 look.

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.

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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

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

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Harmoni Ceiling Tiles

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

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.

Applications:

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

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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

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"

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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® expanded metal ceiling panels produce a chic, high-tech, modish interior look at an affordable cost. Available in three standard diamond-mesh patterns with or without an acoustic backer, the panels are manufactured using up to 55 percent recycled metal and fitting within standard suspended grid systems. Dramatic back lighting and shadow effects are possible. SQUARELINE metal finishes are offered in power-coated chrome, white, black or custom. Optional 9/16 -inch (14 mm)- thick WHITELINE® acoustic backer panels in smooth white fleece on one panel face and black fleece on the other side. Custom water-based acoustic coatings and printing are available to complement or contrast with expanded metal mesh.

Material

- Highest-quality galvanized, powder-coated finish directional expanded metal mesh panels
- Up to 55 percent recycled metal content
- 70 percent open area, diamond mesh standard
- Optional WHITELINE® acoustic backer panels have a WILLTEC™ core and are available in standard white and black fleece finishes; custom water-based acoustic coatings and printing options are also available

SQUARELINE® Standard Sizes

- Panel sizes: 2' x 2', 2' x 4' (610 x 610, 610 x 1219 mm)
- Flat lay-in panels standard
- Suited for either 15/16" or 9/16" (24 or 14 mm) grid work
- Custom options available

SQUARELINE Medium and SQUARELINE Ultra Sizes

- Panel sizes: 2' x 2', 2' x 4' and 4' x 4' (610 x 610, 610 x 1219 and 1219 x 1219 mm)
- Flat lay-in panels standard
- All panel sizes suited for either 15/16" or 9/16" (24 or 14 mm) grid except 4' x 4' 15/16" (1219 x 1219 24 mm) grid only
- Custom options available

WHITELINE® 9/16" (14 mm)-Thick Panel Sound Absorption

Test ASTM C423-90a; Mounting Type E

Frequency (Hz)	Thickness 0.6 " (15 mm)
125	0.27
250	0.60
500	0.64
1000	0.80
2000	0.91
4000	1.02
NRC	0.75

Physical Data—WILLTEC Foam

Tensile Strength	8 PSI (ASTM D3574-77)
Density	0.7 lbs./cu. ft. (0.3 Kg/cu. m)
Elongation	8% (ASTM D3574-77)
Heat Conductivity	K factor = 0.24 at 50°F (10°C)
Long-Term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Color	White/Black

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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

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Phonstop Ceiling and Wall Tiles

- ✓ Made from 100% recycled glass
- ✓ Exceptional acoustical properties
- ✓ Two styles: adhere to walls and ceilings or
- ✓ standard 15/16" ceiling grid system
- ✓ PHONSTOP Plaster provides a seamless appearance
- ✓ Custom colors

PHONSTOPTM direct-apply, glue-up wall and ceiling acoustic panels are produced from 100-percent recycled glass granules fused together to form rigid, lightweight, fiber-free sound absorbers suitable for interior and exterior applications. PHONSTOP absorbs sound energy within its open-cell, sintered glass core resulting in exceptionally high noise reduction over a broad frequency range, controlling excess sound reflection and reverberation.

Physical Data

Material	100-percent recycled glass
Density (ASTM D1622-08)	16.79 lbs./ft.^{3} (269 kg/m^3)
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
Weight	approx. 3 lbs./sq.ft. (1.36 kg/ sq.m.)

Sound Absorption

Thickness	Coefficient per ASTM C423-90a (Mounting Type A) Frequency (Hz)/Sabins						
	125	250	500	1,000	2,000	4,000	NRC
2" (51 mm), adhered and coated	0.13	0.41	0.88	1.03	1.02	1.05	0.85
2" (51 mm), adhered without space between tiles	0.16	0.63	1.15	0.91	0.98	0.99	0.90

Size

- 24" x 24" x 2" thickness (610 x 610 x 51 mm)
- 24" x 48" x 2" thickness (610 x 1220 x 51 mm)
- Panels are produced with a square edge on one side and a 45-degree bevel-edge chamfer opposite

Material

ASTM E84 Class 1 (A) fire-rated PHONSTOP Wall and Ceiling Panels are made from 100-percent recycled glass sintered to form rigid, lightweight, fiber-free, porous sound absorbers. PHONSTOP is specifically intended for direct-apply, glue-up applications to concrete, masonry and drywall. PHONSTOP system products include:

- PHONSTOP pt-17 Primer
- PHONSTOP pa-81 Dry Mix Adhesive
- PHONSTOP pt-13 Sealer

Applications

- LEED accredited projects
- Education, corporate and government
- Motorway tunnels and noise barriers
- Railway tunnels and noise barriers
- Indoor swimming pools and spas
- High fire-safety areas, plant rooms
- Cooling towers, vents and substations
- Indoor and outdoor firing ranges

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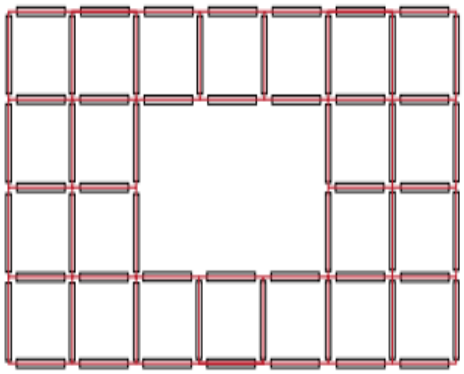
Sonex Plano Baffle Absorbers

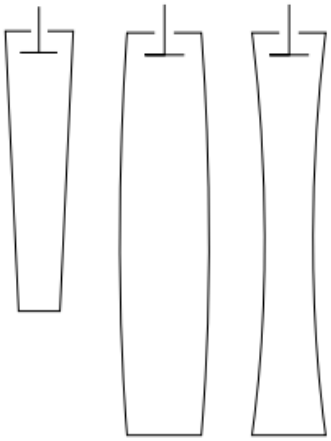
- ✓ Virtually unlimited profile shapes and T-grid ceiling plans
- ✓ For retrofit and new construction
- ✓ Easy standard T-grid installation in crosshatch, straight line or other patterns
- ✓ Reduces noise, echo and sound reverberation
- ✓ Made from willtec foam
- ✓ Class 1 fire rated
- ✓ Available in natural white and grey and water-based acoustic coated finishes

SONEX® PLANO Absorbers provide exceptional sound absorption with virtually unlimited profile shapes and T-grid ceiling plans. Profiles include convex, concave, wedge and custom contours. The baffles are easy to suspend from a standard T-grid system in crosshatch, straight line or other patterns across the width or length of the ceiling for a signature design. These baffles reduce echo and sound reverberation in large open areas.

Ceiling Plan



Profile Shapes



SONEX PLANO Absorber Material

- Made from pinta's WILLTEC® foam
- Natural white or light grey
- Water-based acoustic coating in standard, premium and custom colors for easy cleaning and durability
- Custom profile shapes available

Sizes

- Length: Up to 48 inches (1219 mm)
- Depth: 24 to 32 inches (610 to 813 mm)
- Thickness: 2 inches (51 mm)

Applications

- Large open areas
- Lobbies and entries
- Entertainment facilities
- Universities
- Cafeterias
- Manufacturing and assembly areas

Installation

- Follow manufacturer's instruction to install T-grids
- Slide T-rail into groove on the top of the baffle
- Clip into standard 15/16" (24 mm) T-grid

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)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Toxicity	Passes University of Pittsburgh Toxicity of Smoke Emission test
Absorber Finishes	Natural white, grey or water-based acoustic coated, custom colors available

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

Frequency (Hz)	24 x 48 x 2 inches (610 x 1219 x 51 mm), Natural white
125	1.0
250	5.4
500	10.8
1K	16.3
2K	18.7
4K	24.0
Average sabines per baffle	12.7

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Sonex Linear Absorber Material

- ✓ Streamlined appearance
- ✓ Custom sizes, profiles and colors
- ✓ Excellent sound absorption
- ✓ T-shape linear profile design and custom straight linear shapes options
- ✓ Class 1 fire-rated and mold resistant
- ✓ Lengths up to 96 inches (2438 mm)

SONEX® Linear straight-line baffles provide excellent sound control and a modern appearance. Highly customizable options, such as signature profiles and a T-shaped design, offer optimum form and function in lobbies and entries, open-plan offices, museums and entertainment facilities, showrooms, lecture halls, worship centers and more. SONEX Linear Absorbers are easy to install using channel trim and pinta acouSTIC™ adhesive.

SONEX Linear Absorber Material

- Made from pinta's willtec® foam
- Natural white or light grey
- Water based acoustic coated in white, ivory, light blue, light grey, medium grey, dark grey, black and other premium and custom colors for easy cleaning and durability
- T-shape linear profile design options and custom straight linear shapes available

C-channel Material*

- C-channel trims fasten directly to wall and ceiling substrates
- Roll-formed painted steel with hemmed edges
- Length: Up to 10 feet (3.05 m)
- Flanges: 15/16 x 1-15/16 inch (24 x 49 mm) ID

** Not provided by pinta acoustic.*

Sizes

- Length: Up to 96 inches (2438 mm)
- Depth: 6 to 24 inch (152 to 610 mm)
- Thickness: 2 inches (51 mm)

Applications

- Flat or sloped ceilings and walls
- Recessed pocket areas within drywall surrounds
- Create or suit ceiling elevation changes
- Tailor depths of linear sections by design, plan and dimension
- Peak visual interest within various spaces

Installation

- First fasten the c-channel trims* directly to the wall or ceiling substrates
- Run a continuous bead of acouSTIC adhesive within the c-channel before slip-fitting SONEX linear baffle absorber into the c-channel
- Before butting baffles tight in continuous rows, apply short beads of acouSTIC adhesive to baffle ends; then spread using a 1-inch putty knife

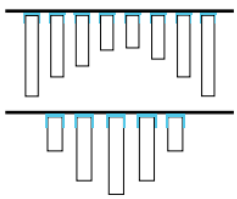
Physical Data—willtec foam

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)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (willtec natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Toxicity	Passes University of Pittsburgh Toxicity of Smoke Emission test
Absorber Finishes	Natural white, grey or HPC-coated, custom colors available

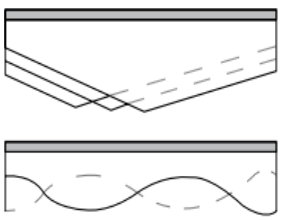
Sound Absorption
(In sabins) Test ASTM C423-90a

Frequency (Hz)	12 x 96 x 2 inches (305 x 2438 x 51 mm), Natural white
125	1.0
250	5.4
500	10.8
1K	16.3
2K	18.7
4K	24.0
Average sabines per baffle	12.7

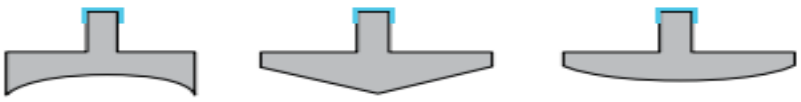
Ceiling Sections



Ceiling Elevations



T-shaped Profiles



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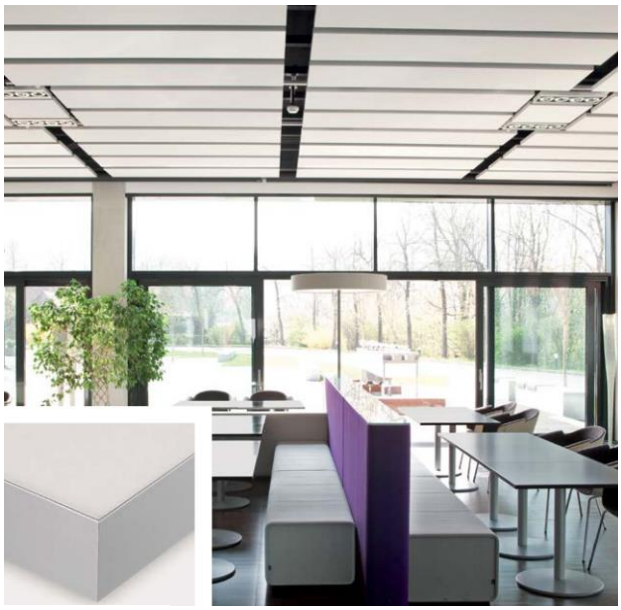
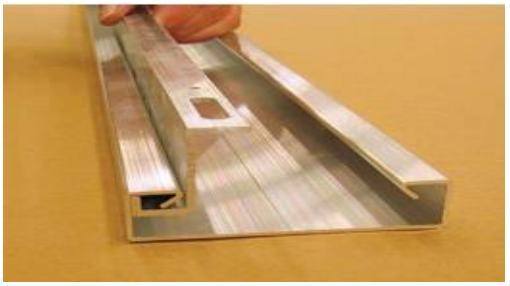
Balance and Balance Plus Ceiling Cloud

- ✓ Clean look adds dimension
- ✓ Excellent acoustical control
- ✓ Fleece laminated to a willtec foam panel
- ✓ Lightweight aluminum frame
- ✓ Custom sizes up to 48" x 120" (1219 x 3048 mm)
- ✓ BALANCE is 15/16" (24 mm) thick
- ✓ BALANCE PLUS has an additional 3/4" willtec backer for additional sound absorption
- ✓ Class 1 fire-rated

BALANCE and BALANCE PLUS Ceiling Clouds provide acoustical control while maintaining the appearance of an open ceiling. Completely preassembled, BALANCE products are easy to suspend from any ceiling or roof deck and are ideal for open office environments and loft spaces. For typical hanger wire suspension applications, metal cutting screw eyes are recommended to fasten through aluminum strong-back top flanges. Predrilling is recommended to help prevent damaging the panel. Balance is mostly used for suspended cloud applications. The product arrives completely assembled at the job site ready for suspension.





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 (105°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Color	White/black

Material

BALANCE Ceiling Clouds are composed of a 15/16" (24 mm) thick WHITELINE® Panel with a lightweight aluminum frame. WHITELINE Panels feature fleece laminated to WILLTEC® foam. Panels are available in white, black or custom colors. For further acoustical control, BALANCE PLUS Panels have an additional 3/4" (19 mm) willtec backer. Offered in natural aluminum and white, BALANCE frames are available in nonexposed or exposed 3/8" (10 mm) wide flange around the perimeter.

Sizes

- Custom sizes up to 48" x 120" (1219 x 3048 mm)
- BALANCE – 15/16" (24 mm) thick
- BALANCE PLUS – 15/16" (24 mm) with 3/4" (19 mm) backer
- Frame – 3/8" (10 mm) flange (non-exposed or exposed)

Sound Absorption—Mounting Type J

Finish	Thickness	Sabins per Ceiling Cloud 48" x 48" (1219 x 1219 mm) per ASTM C423-90a						
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	Ave.
BALANCE	15/16" (24 mm)	3.0	5.8	12.7	20.2	22.1	23.4	14.5
BALANCE PLUS	15/16" (24 mm) with 3/4" (19 mm) backer	4.0	8.6	17.3	25.4	23.9	26.8	17.7

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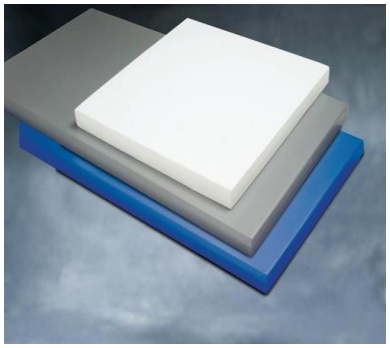
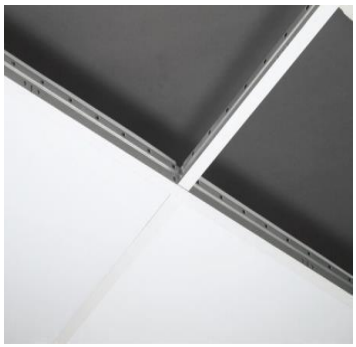
Sonex Clean Products

- ✓ 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.





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

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

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

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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 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)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

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							
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	Mounting Type
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

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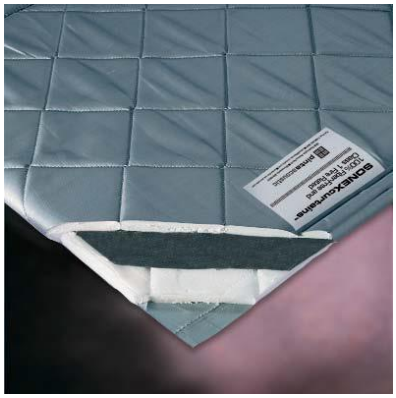
Sonex Curtains – Barrier Septum

- ✓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

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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

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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

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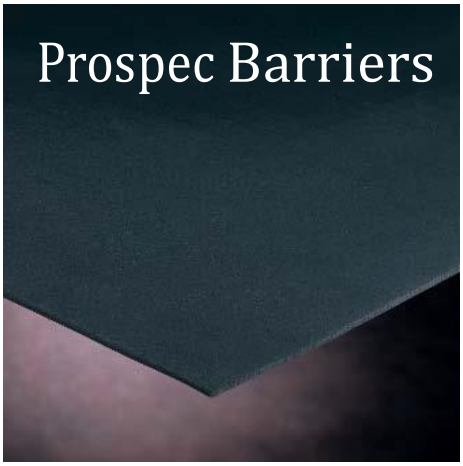
Prospec Barriers



- ✓ 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

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"	1/16"
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

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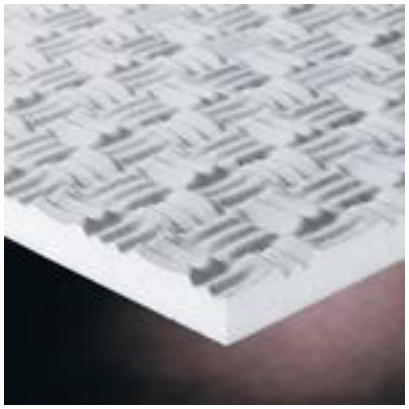
Prospec Foam

- ✓ 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							
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	Mounting Type
HPC-coated	1"	0.00	0.26	1.01	0.82	0.68	0.60	0.70	A

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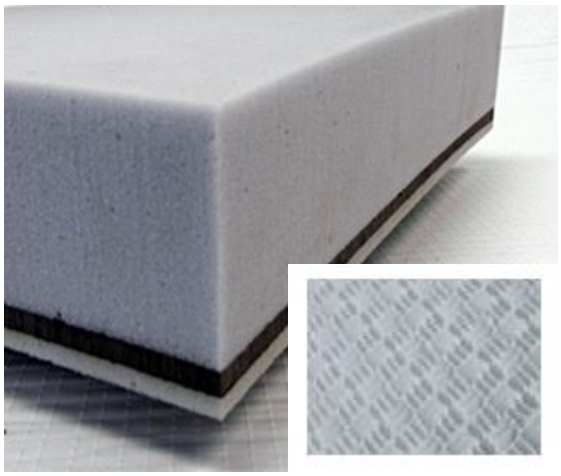
Prospec Composite

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



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 or as a flat surface appearance as pictured. Rugged Tedlar® facing is available to withstand harsher chemicals and cleaning. Aluminized Mylar® is also available for special applications.

Physical Data

Material	1" open-cell willtec bonded to 1/8" loaded vinyl barrier with 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
125	17
250	22
500	20
1000	32
2000	31
4000	43
STC**	28

***Estimated*

Frequencies Hz	ASTM C423-90a Sound Absorption Coefficients*
125	0.13
250	0.60
500	0.81
1000	0.97
2000	1.00
4000	0.90
NRC	0.85

**Type B Mounting*

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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 & reduces sound.
- 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

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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:

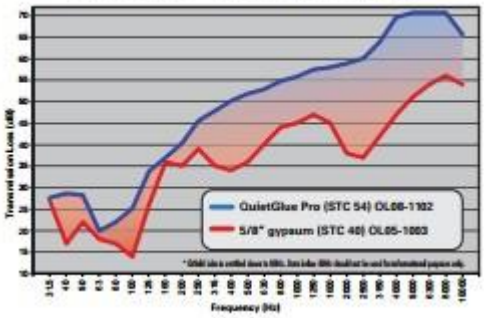
- Easy to use
- Ideal for use with virtually any kind of wood or drywall
- Does not require special training
- Low VOC, water-based compound, solvent-free
- Lab tested in accordance with ASTM D3273 and E90

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

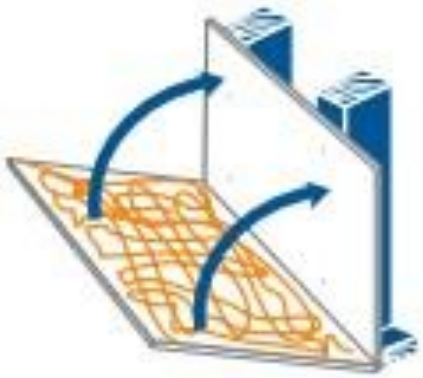
** Tubes require a standard caulking gun. A bulk caulking gun is recommended for use with the 1 gallon and 5 gallon buckets.*

QuietGlue® Pro Performance



STOP THE NOISE IN 2 EASY STEPS

1 Dispense Glue



2 Screw onto wall

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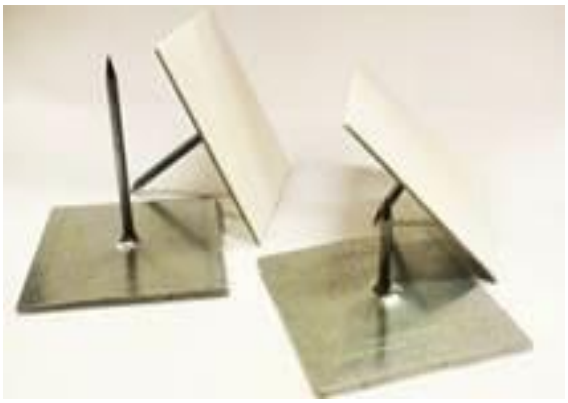
- ✓ Must be applied to a clean, non-porous surface, which is free of all oil, film, dust, rust, etc.
- ✓ Not generally recommended on painted surfaces, drywall, or ceilings of metal buildings
- ✓ Best results are obtained when ambient temperature is above 40 degrees F at time of application
- ✓ Temperature 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 or 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

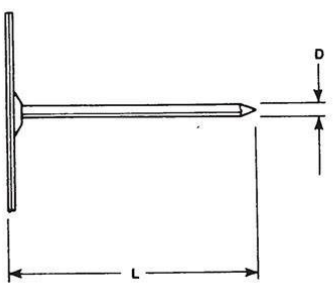
Mechanical Properties
Low Carbon Steel - Plate
Also available by special order in all Stainless Steel or all Aluminum.

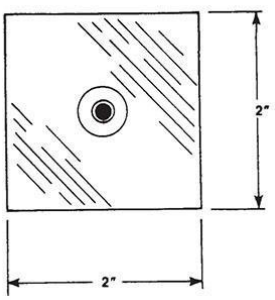
Plating
Galvanized coating is standard. - PIN / Plate

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.





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acouSTIC Adhesive PA-04

- ✓ Nontoxic, polyurethane-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)

pinta acouSTIC™ PA-04 is a polyurethane-based adhesive used for adhesion of pinta acoustics' melamine foam products to metal surfaces, corrugated metal decking and other non-porous surfaces, or for use in cold conditions where PA-02 is not appropriate.

Technical Details

PA-04 is mold and mildew resistant, has zero volatile organic compounds (VOCs), and contributes to LEED EQ Credit 4.1. Shelf life is two years in unopened containers. To ensure the integrity of the adhesive, the work area temperature must be -40°F – 250°F (-40°C – 121°C).* Although the bond will be immediate, please allow 24 – 72 hours for full cure, depending on the environmental conditions.

Preparation

Make certain that smooth, continuous substrate surfaces to which panels will be applied are clean and level. Dust, dirt, residues, contaminants and extreme low or high temperatures can inhibit a strong bond to the substrate or foam.

Installation

On gypsum, flat metal or similar non-porous surfaces:

- Cut adhesive tube tips to produce a bead flow of 3/8" (9.5 mm) diameter.
- Run a continuous bead of adhesive around the panel's perimeter, approximately 1-1/2" (38 mm) from edges; then apply intermittent beads from opposite corners through the center of the panel creating an X pattern. (Fig. 1)
- Typical installation requires 0.75 – 1 ounce (22 – 30 ml) of adhesive per 1 square foot (0.09 square meters) of material being adhered.
- 24" x 24" (610 x 610 mm) panels will require 0.33 – 0.5 tubes.
- 24" x 48" (610 x 1219 mm) panels will require 0.5 to 0.66 tubes.
- 48" x 48" (1219 x 1219 mm) panels will require 1 – 1.5 tubes.
- 48" x 96" (1219 x 2438 mm) panels will require 2.5 – 3 tubes.
- Press panels firmly into place. Be sure to apply pressure where the adhesive is located to spread the bead as much as possible.
- Pull the panel away from the surface and allow 30 seconds of open time for the adhesive to develop additional tack.
- Replace the panel into position, applying firm, even pressure to the entire panel. At this time, adhesive tack should be immediate.

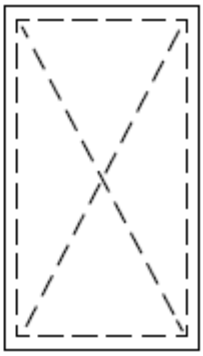
On corrugated metal decks or similar non-porous surfaces:

- Cut adhesive tube tips to produce bead flow of 3/8" (9.5 mm) diameter.
- Apply beads of adhesive to the ribs of the corrugated deck, NOT the panel backs.
- Typical installation requires 1 ounce (30 ml) of adhesive per 1 square foot (0.09 square meters) of material being adhered.
- 24" x 24" (610 x 610 mm) panels will require 1.5 tubes.
- 24" x 48" (610 x 1219 mm) panels will require 0.75 tubes.
- 48" x 48" (1219 x 1219 mm) panels will require 1.5 tubes.
- 48" x 96" (1219 x 2438 mm) will require 3 tubes.
- Press panels firmly into place. Be sure to apply pressure where the adhesive is located to the bead as much as possible.
- Pull the panel away from the surface and allow 30 seconds of open time for the adhesive to develop additional tack.
- Replace the panel into position, applying firm, even pressure to the entire panel. At this time, adhesive tack should be immediate.

Limited Warranty

Many jobsite factors beyond pinta acoustic's control can affect the use and performance of its acouSTIC adhesive products. The user is solely responsible for determining which adhesive and application method is best suited for any specific direct-apply, glue-up panel project. pinta warrants that its acouSTIC adhesive products meet their applicable product specifications at the time of sale. pinta acoustic makes no other warranties or guarantees, expressed or implied. If an installation should become problematic, pinta acoustic's sole and exclusive remedy is, at pinta acoustic's option, replacement or refund of the adhesive's purchase price. pinta acoustic recommends a pre-construction mock-up to ensure that any adhesive selected actually produces an immediate tack and strong bond between panels and substrates before complete installation proceeds. Please consult pinta acoustic with any questions prior to the start of your specific project.

Fig. 1



*acouSTIC PA-04 high-strength polyurethane adhesive is a moisture curing product. Therefore, during cold and dryer weather conditions, the installer may consider applying a light spray (spritz) of water to assist in accelerating the cure of the glue.

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Foam Color Chart

Natural WILLTEC™

white

Standard water-based acoustic coated WILLTEC

arctic white


light grey

COLORTEC®


charcoal

grey


medium grey


black

Premium water-based acoustic coated WILLTEC

ivory

beige


light blue


mustard yellow


olive green


orange red


blue violet


eggplant


brown black


dark grey

For any commodity product purchase, a minimum order of five boxes is required for premium colors.

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Fabritec Color Chart

*Custom colors also available.

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Contour Pattern Chart

Basix 1 and 2

Classic

Basix and Classic

Matrix 2

Matrix Half

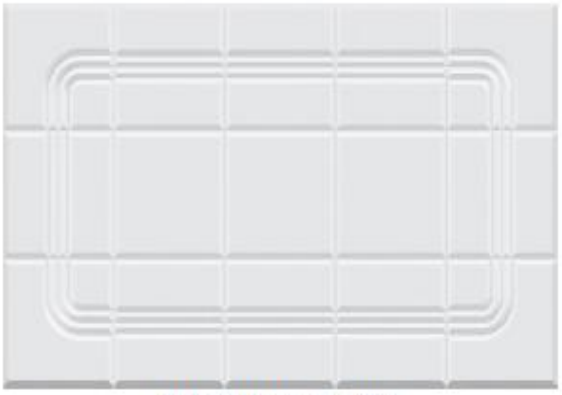
Matrix 4 and Matrix 4 Open Center

Matrix 4

Matrix 4 Open Center

Matrix 6

Matrix 6 Open Center



TriLine, TriLine Corner and Basix

TriLine

TriLine Corner

Water-based acoustic coating in standard premium and custom colors.

Custom patterns and logos are available upon request.

Please consult pinta acoustic with any questions prior to your specific project application start.

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Clean Color Chart

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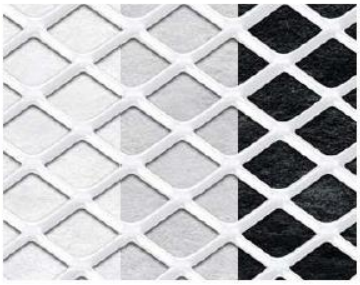
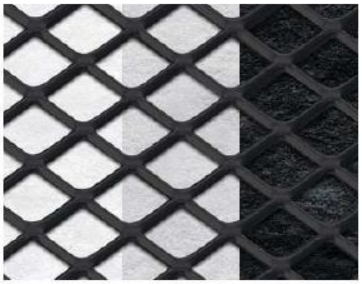
Squareline Color and Pattern Chart

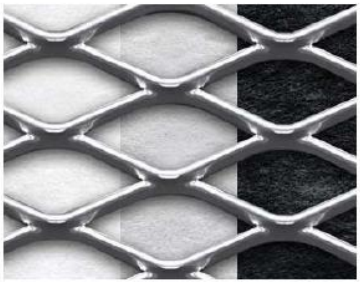
■ **SQUARELINE Standard**
Chrome Metal with White, Light Grey or Black Fleece Backer



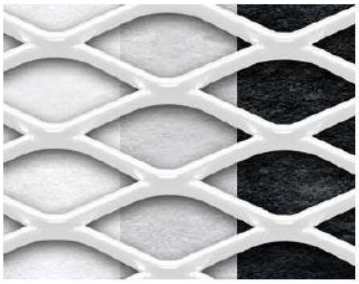
■ **SQUARELINE Standard**
White Metal with White, Light Grey or Black Fleece Backer



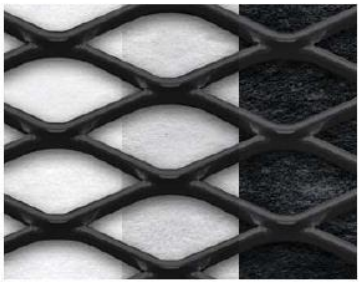
■ **SQUARELINE Standard**
Black Metal with White, Light Grey or Black Fleece Backer



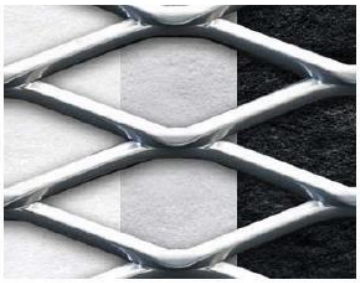
■ **SQUARELINE Medium**
Chrome Metal with White, Light Grey or Black Fleece Backer



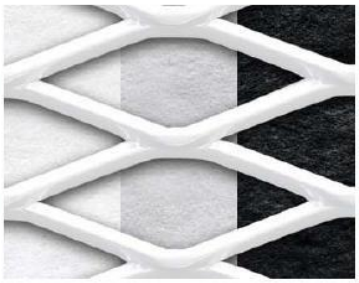
■ **SQUARELINE Medium**
White Metal with White, Light Grey or Black Fleece Backer



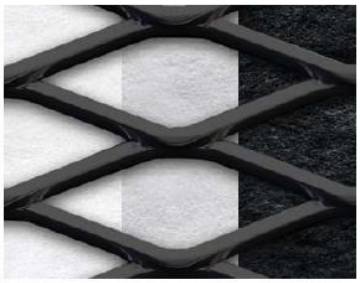
■ **SQUARELINE Medium**
Black Metal with White, Light Grey or Black Fleece Backer



■ **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

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Noise Cancelling Earmuffs

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

The Memtech 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

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

The Memtech 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 Memtech 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 Memtech 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 Memtech 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

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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.

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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

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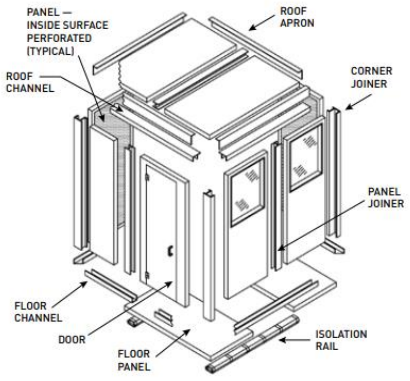
IAC Acoustical Enclosures

Installation Information & Sequence:

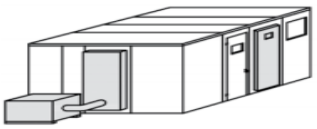
- ✓ Two technicians can handle Moduline components
- ✓ Doors installed just like other panel components, with leaves shipped pre-assembled in a frame
- ✓ Place floor channels in lengths needed for room perimeter & anchor to floor
- ✓ Starting at a corner, install panels & joiners to make up walls
- ✓ Install roof angles, place ceiling panels & joiners, and finish off with external roof apron
- ✓ Install accessory items, including forced ventilation system and electrical work
- ✓ Use easy to follow, detailed & illustrated installation



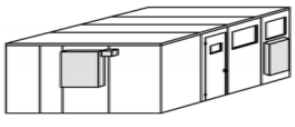
IAC Acoustics Moduline acoustic enclosures protect workers and the community from noise generated by manufacturing and power generating machinery. In industrial settings, noise from this equipment frequently exceeds OSHA limits for hearing safety while also impeding communication. Without noise control remediation, local noise ordinances at plant property lines may be exceeded. IAC Acoustics' line of acoustic enclosures are an effective and efficient way to address these problems. IAC Acoustics offers standard packages for lighting, electrical and mechanical system components as well as the ability to fully customize the enclosure for unique customer requirements. When desired, electrical services can be integrated into the construction of the panel at the plant for a superior aesthetic and an unobstructed interior. When you choose a Moduline Acoustic Enclosure, you can count on IAC Acoustics as the single point of responsibility for all the different components that affect the acoustic performance of the enclosure, including wall and roof panels, doors, windows and ventilation systems. IAC Acoustics professionals will work with you to identify and design the right solution to effectively mitigate your noise problem. We guarantee the performance of our products and continue to support our customers long after the job is complete. IAC Acoustics Moduline Enclosures Offer: Integration of lighting, ventilation, fire fighting systems, air-conditioning, etc., available sound and vibration isolating floor systems, designs for interior and exterior installation sites, available Noise-Lock® sound control door & window systems, and installation services that can be included in IAC Acoustics' scope of supply.

Moduline Construction Type	Sound Transmission Loss, dB, by Octave Band Center Frequency, and Sound Transmission Class, STC, Rating									
	63	125	250	500	1k	2k	4k	8k	STC	WT lb/ft²
Noishield Regular	20	21	27	38	48	58	67	66	40	8
Noishield Septum	21	19	23	35	50	60	68	72	37	9
Mill Duty Regular	28	27	28	41	50	57	57	64	43	10.5
Noise-Lock I	25	27	31	41	51	60	65	66	44	10
Noise-Lock II & Fire-Noise-Lock	27	30	32	41	50	59	67	71	45	11
Super-Noise-Lock	31	34	35	44	54	63	62	68	48	15
Noishield Hard	22	33	45	52	58	68	75	65	56	9.5
Noise-Lock III	20	36	51	68	75	83	84	73	59	11
Noise-Lock II Hard	24	40	50	57	65	73	80	78	61	12
Noise-Lock IV Hard	21	30	50	60	73	79	80	71	62	11.3
Gemini Regular	34	48	58	69	75	82	86	76	70	21

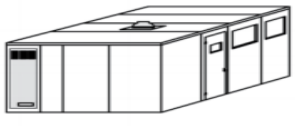
Panel Construction Type	Sound Absorption Coefficients at Octave Band Center Frequency, and Noise Reduction Coefficient, NRC							
	125	250	500	1k	2k	4k	8k	NRC
Noishield Regular	0.89	1.20	1.16	1.09	1.01	1.03	0.93	(1.10)/0.95
Noishield Septum	0.50	0.68	1.03	1.05	1.00	0.99	—	(1.10)/0.95
Noise-Lock I, II, Fire-Noise-Lock & Super-Noise-Lock	0.94	1.19	1.11	1.06	1.03	1.03	1.04	(1.10)/0.95
Noishield Regular with fill protection & spacer	0.56	0.99	1.09	0.97	0.95	0.90	—	(1.10)/0.95
Noise-Lock III	0.49	0.37	0.83	0.96	0.99	1.00	—	0.80
Noise-Foil I & II (2" - 51 mm thick)	0.35	0.65	1.20	1.21	1.07	0.92	—	0.95
Noise-Foil I & II (4" - 102mm thick)	0.97	1.39	1.34	1.29	1.19	1.01	—	1.30
Noise-Foil V	0.24	0.95	1.13	0.99	0.94	0.86	—	1.00



Test Environments



Machinery Enclosures



Personnel Structures

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Durisol Noise Barrier Walls

- ✓ Precast Noise Barriers:
- ✓ Absorptive & Reflective along with anti-graffiti solutions.
- ✓ Transparent Noise Barriers: Solutions that do not block the view, but still provide a solution to block unwanted noise.
- ✓ Retaining Walls: Easily installed in narrow right-of-way situations with no tie-backs.
- ✓ Utility Enclosures & Fire-Rated Barriers: Noise Barriers that also work as firewalls to ensure safety in the event of a transformer fire.
- ✓ Super-Slab® Pavement System: The fastest and most widely-used precast pavement system in North America.
- ✓ Eco-Wall Fence: System made from recycled rubber tires that provides privacy & reduces the noise level.

Durisol is the market leader in the noise barrier industry. They manufacture and supply a series of unique post and panel wall systems – including Durisol® precast absorptive panels and transparent ACRYLITE© Soundstop sheets, as well as narrow footprint retaining walls and fire-rated barriers. Durisol noise barriers stop the noise of industrial warehouses, utility enclosure sites and urban infrastructure of all kinds right across North America.






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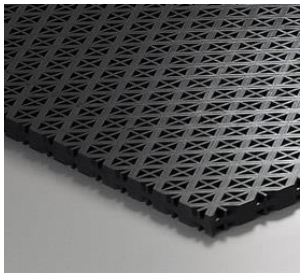
Vibration Isolation and Mounts



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

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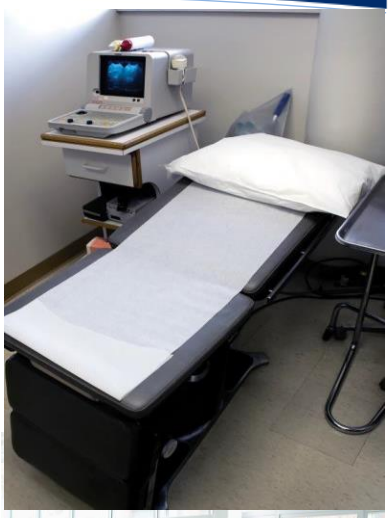
Sound Masking



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

cambridge SOUND MANAGEMENT

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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

ZERO INTERNATIONAL

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IAC Noise-Lock Acoustic Doors

APPLICATIONS

- ✓ Auditoriums
- ✓ Concert Halls
- ✓ Control Rooms
- ✓ Convention Centers
- ✓ Conference Rooms
- ✓ Engine Test Cells
- ✓ Music Practice Areas
- ✓ Offices
- ✓ Machinery Enclosures
- ✓ Radio
- ✓ Mechanical Equipment Rooms
- ✓ Recording Studios
- ✓ Secure Areas
- ✓ Pulpits
- ✓ TV
- ✓ Stage/Prop Areas
- ✓ RF/Acoustic Shielded Facilities
- ✓ Test Facilities
- ✓ Vibration Test Labs

IAC Acoustics features sound control doors in a wide variety of applications with STC (Sound Transmission Class) ratings from STC 43 to STC 64 and NIC 70 assembly. All IAC sound-rated door designs are tested in the IAC NVLAP accredited Aero-Acoustic Laboratory. Of greater importance is consistently high in-field noise reduction attained under actual job conditions. IAC delivers a fully factory assembled door unit including leaf, time saving split frame, seals, latching hardware and glazing. IAC Noise-Lock® custom doors are designed to meet your specific functional and dimensional access requirements. Acoustic door features include fully factory assembly and functional testing, self-aligning magnetic seals provide durability and high field STC ratings under adverse conditions, cam-lift hinges and ADA compliance, NVLAP Laboratory Testing of all designs time saving split frame, wood Veneer finish over 100 species, and SCIF Rooms. Acoustic Door ratings are 20, 60, 90 min and 3-hr Fire 3 PSI Blast STC 43 to 64 and NIC 70 assembly.








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Door Gasket

This Quality Basic Door Gasket with enhanced solid neoprene seal will ensure a secure seal around the header and jambs of door frames. Door gasket is rated for fire, smoke and sound filtration. Available in three anodized finishes and is custom cut to size.

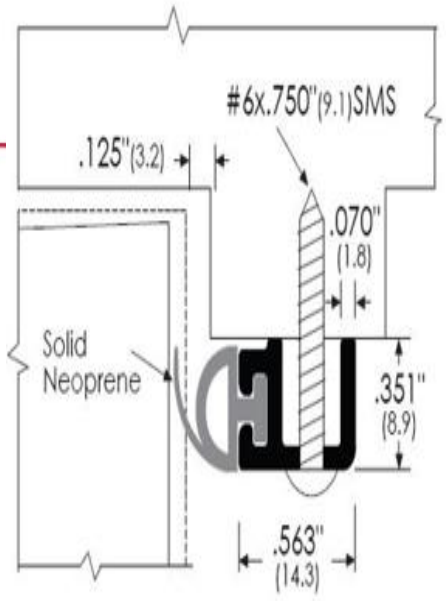
- ✓ Product complies with the following ANSI / BHMA Codes:

- Head and Jamb Application: R3B164
- Applied Stop Application: J32120

Dimensions: Casing measures .563" x .351". It is recommended for gaps up to .125"
Seal: This door gasket is fitted with an enhanced Solid Neoprene Seal. The extruded bulb and finger design has great compression properties. The protruding lip ensures the seal is properly maintained, even if the door is slightly warped, due to aging or improper installation.
Casing: Casing is made of high quality .070" thick anodized aluminum that will retain its color and shape, even through constant usage.
Installation: Door gasket is designed to be installed directly onto a door stop. The casing is drilled with slotted screw holes to allow for slight adjustment during installation. All installation screws are provided, and screws are colored to coordinate with casing.
Additional Applications: Can also be used for window soundproofing. Simply install onto sill to seal gap between sill and window pane.
Compliance Details: Gasket is rated for fire, smoke and sound filtration and is UL Listed.
Anti-Ligature Feature: Product is available with Zero's Anti-Ligature feature. Seal is slotted to prevent gasket from being used for anything other than its intended purpose.

FIRE AND SMOKE RATINGS

- UL listed
- ITS Warnock Hersey listed
- 10B Classified up to 90 minutes
- Category H Classified under UL 1784, listed up to 180 minutes



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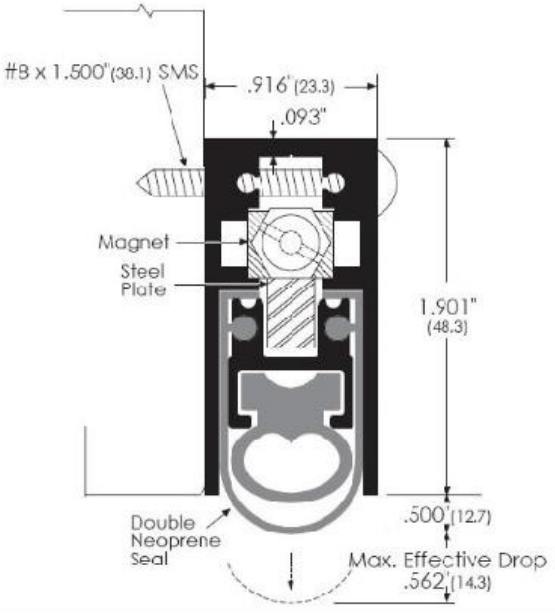
Automatic Door Bottoms

- ✓ Complies with the following ANSI/BHMA Code: R3B334

This Surface Mounted, Heavy Duty, High Sound Automatic Door Bottom with a double solid neoprene seal offers the best sound control for high sound levels and will prevent infiltration of light, drafts and more. Made with high-quality mechanism that has been tested to 5 million opening and closings. Smoke and Fire-Rated and is available in three anodized finishes. Length is custom cut to size.

How it Works: Automatic Door Bottoms utilize a concealed flat spring mechanism and plunger. When the door is closed, a brass plunger is compressed to automatically lower the seal, starting from the hinge side first. This motion ensures a smooth usage even on an uneven surface and prevents drag. The seal is automatically raised upon opening. These automatic door bottoms have been successfully tested through 5 million cycles!

Dimensions: Casing measures 1.901" x .916" and is made of .093" thick aluminum.
Colors: Available in Clear Anodized, Dark Bronze Anodized and Gold Anodized Aluminum.
Seal: Double solid neoprene bulb seal with maximum effective drop of .562".
Compliance Details: Rated for fire and smoke and is UL Listed
Handing: Compatible with both right and left handed doors.



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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

CEL-620 WIDE RANGE INTEGRATING SOUND LEVEL ANALYZER

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

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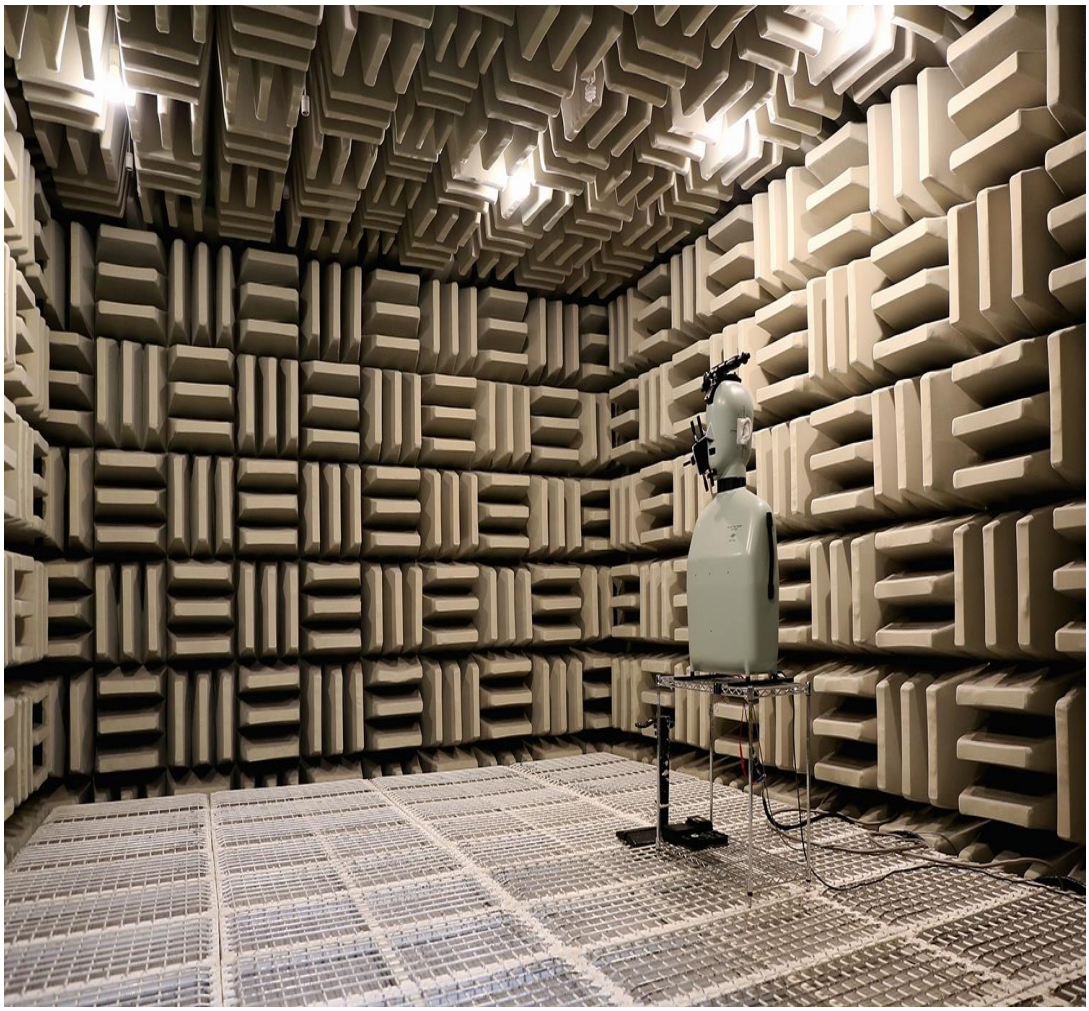
Anechoic and Hemi-Anechoic Chambers

Whether it's a:

- ✓ NVH cell
- ✓ Anechoic/Hemi-Anechoic Test Chamber
- ✓ Noise Containment Enclosures

Memtech will work with our customers from the initial noise study through the final construction.

MEMTECH has extensive experience in the evaluation, design and construction of anechoic, hemi-anechoic and reverberant rooms used for acoustic testing of components and manufactured systems. We also perform baseline testing on current acoustic rooms to evaluate performance, and to make necessary improvements to meet ever-changing specifications and noise criteria. We offer a variety of technical and support services to support your acoustic testing needs, including optimizing reverberation times and sound transmission loss. We can also engineer cost-effective solutions to reduce coupled-floor or other structural vibration sources, or to eliminate noise "leakage" into the room.



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Quiet Curtains

APPLICATIONS

- ✓ Lofts
- ✓ Condos
- ✓ Residential & Commercial
- ✓ Auditoriums
- ✓ Meeting/Conference rooms
- ✓ Home theaters
- ✓ Vocal booths
- ✓ Dance studios
- ✓ Home recording studios
- ✓ Restaurants
- ✓ Hotel & Motel Rooms
- ✓ Hospitals

Custom made, laboratory tested, and field proven STC sound blocking Quiet Curtains™ and Drapes block outside noise, and light. Acoustic Quiet Curtains absorb sound within a room. We can also make combination sound blocking and sound absorbing curtains! Quiet Curtains are designed for both residential and commercial use. All Quiet Curtains are beautiful window treatments that look elegant and will be an asset to any room. These curtains can be used to cover windows, doorways and as room dividers. STC 20 Quiet Curtains can be made in any width and up to 9' high. Quiet Curtains are especially designed for where fire certification, light weight and multiple curtain constructions are required such as schools, hotels, and other public venues. We can also retrofit existing curtain systems. Acoustic Quiet Curtains reduce reverberation and echo, as well as reduce interference from outside noise. Acoustic Quiet Curtains have tested NRC values (up to 1.00 NRC) to provide precise acoustical control and flexibility. We will help you choose the right curtain to achieve both noise control and the best look for your environment and budget. We will also help you get the right tracks and mounting hardware for your Quiet Curtains. Both our STC and Acoustic Quiet Curtains can be made in a wide range of constructions including pleated, ripplefold, flat panel, roman shades and our new STC 17 roller shades. Additionally, in response to requests from hospitals and doctors, we have developed a special Quiet Hospital Cubicle Curtain to increase patient privacy. With all constructions the result is a very substantial drapery.

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Impacta Acoustical Floor Underlayments

Why Use Impacta Underlayments:

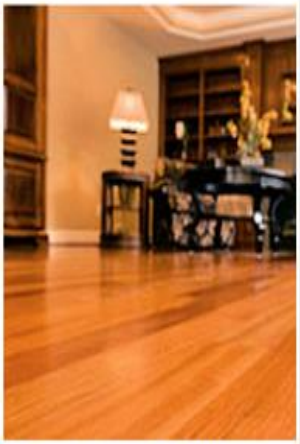
- ✓ Systems designed for maximum performance and ease of Installation
- ✓ Specifically designed for each floor covering
- ✓ Proven results over 100+ acoustical tests
- ✓ Most underlayments are self leveling up to 1/4" over 10 feet

Impacta Acoustical Floor Underlayments by Sound Seal are the solution for foot fall or foot step noise between the floor / ceiling assembly. Impacta Floor Underlayments are premium underlayments that are available in many models and provide sound isolation between the floor covering and the sub floor. Impacta acoustic floor underlayments are different than any other underlayments on the market today. Each product and model has been designed, engineered and manufactured specifically around the floor covering and what the floor covering needs to maintain its integrity and warranty. Many years of research & development and testing have gone into each model and will provide years of acoustical sound reduction while maintaining the integrity and warranty of the floor.

Underlayments - Tile/Stone

- Cerazorb
- ProBase

Underlayments - Hardwood



- Cerazorb
- ProBase
- Redupax
- Paladin
- Soundeater

Underlayments - Vinyl/Carpet

- Jumpax
- VC300
- Probase
- Superfloor

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QuietSeal Pro Acoustical Sealant

Benefits

- ✓ Optimizes damping performance of STC rated assemblies
- ✓ Easy application
- ✓ Hassle free clean up
- ✓ Stays soft for high acoustic performance
- ✓ Environmentally friendly: water-based, low VOC and low odor
- ✓ Exceeds ASTM C 834 standards

Easy application. Reliable. Low Cost Performance. QuietSeal® Pro is a high performing, non-hardening acoustical sealant used to maintain optimum acoustic performance of the Quiet® Sound Damping System. QuietSeal® Pro stays soft to prevent cracking and reduce sound transmission. Apply QuietSeal® Pro around perimeters of the walls to prevent noise leaks in your assembly. It's easy to use and offers a hassle free clean up – just use soap and water. Choose QuietSeal® Pro for quick application, maximum performance, and reliable results when used as part of the Quiet® Sound Damping System.

QuietSeal® Pro Benefits:

- Optimizes damping performance of STC rated assemblies
- Easy application
- Hassle free clean up
- Stays soft for high acoustic performance
- Environmentally friendly: water-based, low VOC and low odor
- Exceeds ASTM C 834 standards

Product Specifications:

Model:	QuietSeal® Pro
Color:	Light Blue
Coverage:	88 linear feet for 1/4" bead
Weight:	3 lbs/tube
Storage temp:	40°-100°F
Volume shrinkage:	18.4%
VOC:	< 0.1 g/l voc

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Exair Air Nozzles

Engineered Air nozzles and Jets reduce noise levels and air costs.

Categories

- ✓ Standard Force Air Nozzles
- ✓ High Force Air Nozzles
- ✓ Back Blow Air Nozzles
- ✓ Air Jets and Accessories

Materials

- ✓ Aluminum
- ✓ Brass
- ✓ PEEK Plastic
- ✓ Type 303 Stainless Steel
- ✓ Type 316 Stainless Steel
- ✓ Zinc-Aluminum
- ✓ Zinc-Aluminum/Steel

Standard Force Air Nozzles - EXAIR's group of air nozzles that produce up to 22 ounces (624 grams) of force, which is suitable for most applications.

- Compact design fits easily in tight spaces
- Engineered to efficiently use compressed air for optimal blowoff force
- Meets OSHA noise level requirements
- Meets OSHA pressure requirements

High Force Air Nozzles - EXAIR's group of air nozzles that produce up to 23 lbs (10.43 kg) of blowoff force where additional power and reach are needed.

- Strong force for part ejection as well as blowoff, drying, and cooling
- More air consumption for higher force and wider blowoff pattern
- Meets OSHA noise level requirements
- Meets OSHA pressure requirements

Back Blow Air Nozzles - ideal tool for cleaning closed tubes or where debris shouldn't be forced further into piping.

- Nozzles available to blow out as small as 1/4" inner diameter
- Nozzles available to clean out up to 16" inner diameter
- Meets OSHA noise and pressure requirements

Air Jets - produces a powerful, directed airstream that's ideal for part ejection or reaching hard-to-reach areas.

- Entrains a large volume of air to supplement supplied air
- Available in brass and Type 303 stainless steel
- Meets OSHA noise and pressure requirements

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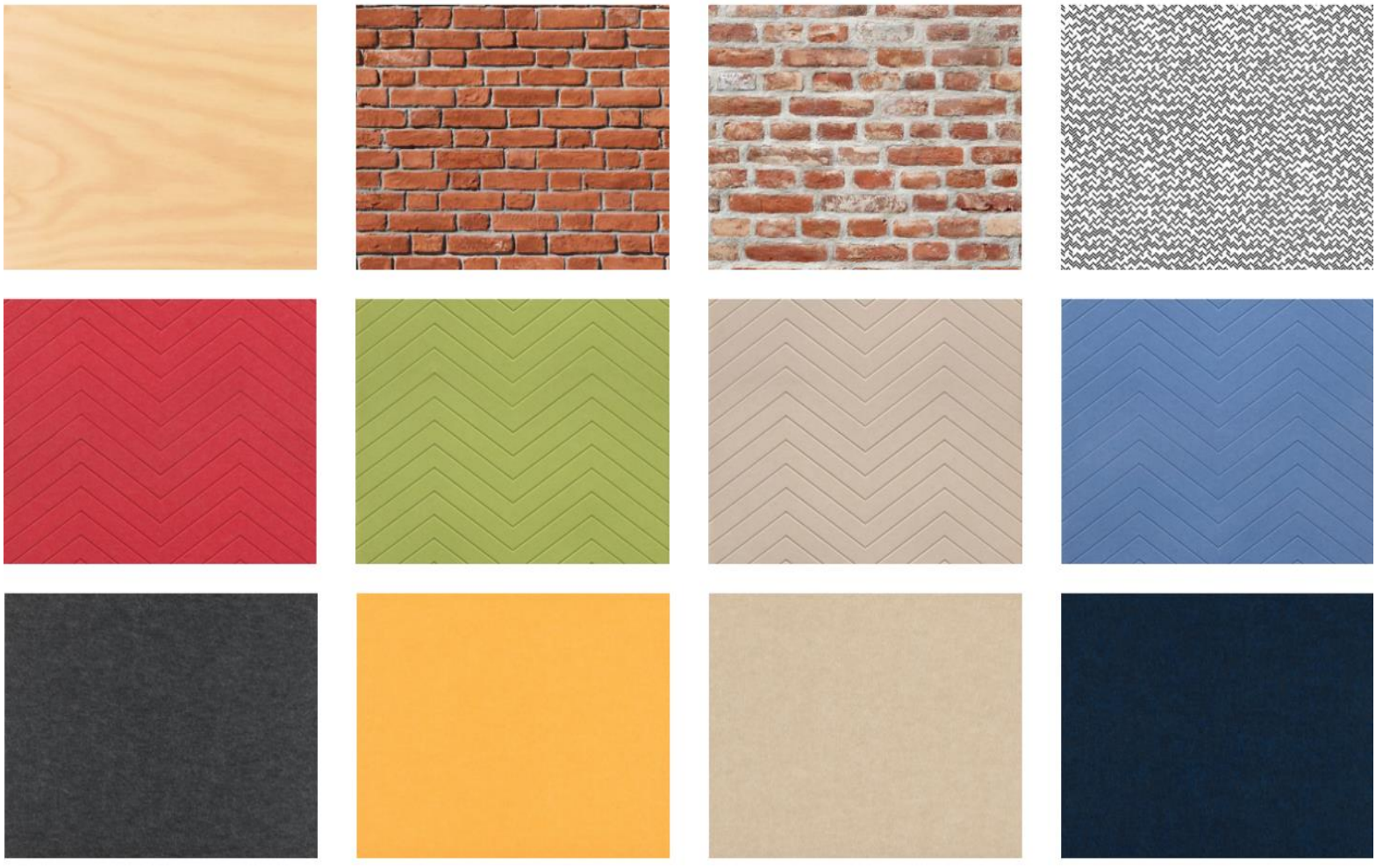
Acoufelt – Making Quiet

Panels and Ceiling Tiles available in multiple finishes:

- ✓ QUIETPRINT Designs
- ✓ FRACTURE Collection
- ✓ SOLID Collection

Fundamentally, a room is a box. Noise made inside the box reflects and reverberates off every hard surface. This reflected sound adds to the source of the noise, and amplifies it as the noise bounces around the room. In this way, a room is like a resonance chamber or the sound box on a guitar. Making Quiet™ is all about inhibiting sound from being reflected. Instead, this sound can be absorbed. The emphasis here is that every surface that contributes to the problem can also be harnessed to help solve the problem. Acoufelt has a simple philosophy that is as brilliant in its simplicity as it is effective. We call it the Acoustic FWC™ philosophy and it drives innovative Acoustic FWC™ solutions from Acoufelt. The Acoustic FWC™ philosophy looks at every surface as an opportunity for noise minimization. A box – or cube – has six sides. Six internal surfaces that contribute to either reflecting noise or Making Quiet. These surfaces are: one floor, four walls and one ceiling. Walls and ceilings can be treated with acoustic panels and ceiling tiles featuring QuietPrint, Fracture, and Solid surface appearance collections – a holistic solution. The Acoustic FWC™ philosophy drives our commitment to thought-leadership, resulting in innovations that are complete – acoustic solutions that consider every face of the box.



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Technical Services

SERVICES:

- ✓ Hearing Loss Noise Studies
- ✓ Property Line Noise Compliance Services
- ✓ Product Noise Certification Services
- ✓ Full-Service Noise Study Provider
- ✓ Installation Services Including:
  - Sound Attenuation Systems (wall panels baffles, barriers, etc.)
  - Acoustical Enclosures of all types
  - Certified Acoustical Door and Window Installers
  - Acoustical Seals and Gasket Systems
  - Reverberation-Reduction Materials
  - Sound Masking Systems
- ✓ Vibration Analysis Services
- ✓ Training Services

Memtech's engineers have many years of applied experience in the field of acoustics, vibration analysis, manufacturing engineering, and predictive maintenance. For those who wish to bring this expertise, "in-house", we have a variety of excellent classes available to enhance skills for both novice and experienced engineers, technicians and skilled trades.

Memtech Technical Services

Providing low-cost, comprehensive "hands-on" technical training and support in the areas of:

Technical Training in Noise and Vibration Technologies

Predictive Maintenance Application Training

Manufacturing Reliability Training

Sound Meter Operation Including Compliance with OSHA Measurement Requirements

Noise and Vibration Measurements

Predictive Maintenance Technologies

Six Sigma Analysis Techniques

Reliability Centered Maintenance (RCM)

We have Certified Six Sigma Black Belt engineers on-staff, who specialize in the areas of instrumentation, equipment reliability, asset management, and maintenance planning. We have successfully taught hundreds of technicians and engineers to improve their measurement and problem-solving skills. We have also assisted many plants in improving "up-time", through the effective implementation of RCM and other methods.

Give us a call for a free quote!

We Have Your Solution!

Memtech Acoustical
YOUR SOURCE FOR NOISE CONTROL SOLUTIONS




Our staff can solve virtually any noise or vibration problem that you have.

CORE COMPETENCIES

- Noise Analysis and Reporting,
- Noise Audits for OSHA or MIOSH compliance
- Property Line Noise Abatement Services
- Noise Control Systems for Industry
- Noise Measurements for Acceptance of New Equipment
- Design and Upgrade of Noise Test Facilities
- Vibration Testing and Acceptance
- Noise Measurement and Control Training
- Sound Meter Application Classes
- Predictive Maintenance Classes
- Equipment Reliability Training

MEMTECH ACOUSTICAL:

- 50+ Years of Experience
- OSHA & MIOSHA Training & Presenting
- CSI, ASA, INCE, NHCA & AIA Certifications

Rick Boyce

Tel (248) 289-1123 Fax (248) 289-6317
Cell (810) 869-2493
rboyce@memtechacoustical.com

Acoustical Products & Services:

- Sound Absorption Materials
- Sound Blocking & Isolation Products
- Soft Curtain Enclosures
- Hard Acoustical Enclosures
- Anechoic Chambers
- Acoustical Doors
- Acoustical Wall & Ceiling Panels
- HVAC Baffles
- Safety Acoustical Air Nozzles
- Sound Level Meter Rentals and Sales
- Equipment Vibration Measurements
- Technical Training & Support

Clients that we serve include:

- COMMERCIAL BUILDINGS
- INDUSTRIAL MANUFACTURING
- HOSPITALS and MEDICAL OFFICES
- SCHOOLS and GYTMNASIUMS
- DISTRIBUTION WAREHOUSES
- GUN RANGES
- RESTAURANTS and BARS
- GYMS and YOGA STUDIOS
- RECORDING STUDIOS
- GOVERNMENT and DEFENSE
- ANIMAL CARE FACILITIES

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