



Memtech Acoustical Services Inc.  
2175 Avon Industrial Drive  
Rochester Hills, MI 48309  
Phone: 248-289-1123  
Fax: 248-289-6317  
[Sales@memtechacoustical.com](mailto:Sales@memtechacoustical.com)  
[www.memtechacoustical.com](http://www.memtechacoustical.com)

## SONEX® Curtain Custom Enclosure Systems

### Product Information



#### Materials

- Standard facing material is a vinyl-coated fabric in grey, white, tan or black
- Made from any combinations of SONEX® Curtains BS and/or BB Panels
- View windows manufactured from transparent flexible vinyl barrier
- Hook and loop strips for joining panels quickly, easily and securely
- Variety of framing systems, including type H-D heavy-duty frame for larger enclosures

SONEX Curtain Custom Enclosure Systems are made from any combination of SONEX Curtain products to produce an effective and economical method of noise reduction for a wide variety of industrial applications. They can be designed to create total or partial enclosures with options for easy access to machines or work cells.

#### Enclosure Features

- High actual noise reduction up to 25dBA, depending on the application
- Custom-engineered systems for almost any environment
- Quick and easy access to enclosed machinery and equipment for operation and maintenance
- Class A fire-rated
- CAD drawings provided with all enclosures
- Durable construction of panels and support framework
- Washable and steam-cleanable component materials

#### Enclosure Options

- Custom configurations ranging from full or partial enclosures to portable screens
- Sewn-on windows or hatches in drop-down or lift-up styles with removable or hook and loop fastener for accessibility and visibility
- Ventilation baffles allow for airflow through the enclosure without compromising acoustical performance
- Roof panels, ventilation systems and valances
- Track systems including double, triple and curved corner provide access at any point

#### Support Framework

- Designed for installation of SONEX Curtain Custom Enclosure Systems
- Floor, suspended, ceiling, beam and wall-mounted systems
- Portable acoustic screen systems available
- Standard or heavy-duty structural systems offered



#### Advantages

- Customizable
- Absorbs and contains noise
- Easy access to machines
- Rugged and durable
- Support framework available

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com



# SONEX® Curtain Custom Enclosure System

## Support Framework Hardware

### Components



Overlapping Trolley  
No 16 OT



Straight Connector  
No 16 TC



End Stop  
No 16 ES



Support Connector  
No 16 WMD



End Support Up  
No 16 EMU



End Support Down  
No 16 EMD

### Ceiling Mounted



90° Curve  
24" (610 mm) R No 16 CT 3  
C (3 Supp)



Support Connector  
No 16 CC



90° Corner Connector  
No 16 CAC



3-Way "T" Connector  
No 16 CTC



4-Way Connector  
No 16 CXC

### Suspension or Beam Mounted



90° Curve  
24" (610 mm) R No 16 CT 3  
B (3 Supp)



Support Connector  
No 16 BC



90° Corner Connector  
No 16 BAC



3-Way "T" Connector  
No 16 BTC



4-Way Connector  
No 16 BXC



Threaded Rod Adaptor  
B-495

### Floor Mounted



90° Curve  
24" (610 mm) R No 16 FCT



Support Connector  
No 16 FCS



90° Corner Connector  
No 16 FACS



3-Way "T" Connector  
No 16 FTCS



Straight Track  
16 RT 6 ft. (1.83 m) 16 RT 8 ft. (2 m) 16 RT 10 ft. (3.05 m)



4-Way Connector  
No 16 FXCS



Support Base  
No 16 BS



2-Wheel Roller Nylon Wheel  
No 16 NR 1-1/2" (38 mm)



Support Column, 8 ft. (2.44 m)  
Track Height, No A2 58



Support Column, 10 ft. (3.05 m)  
Track Height, No A2510

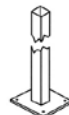
### H-D Heavy-Duty



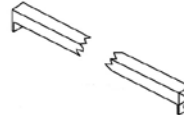
Track Connector  
16CC-HD



Track Connector  
16CC/DBL-HD



2-1/2" (63 mm) Sq. Steel  
Tube Column With Welded  
Base



2-1/2" (63 mm) Sq. Steel Tube Cross  
Beams With Attachment Angles

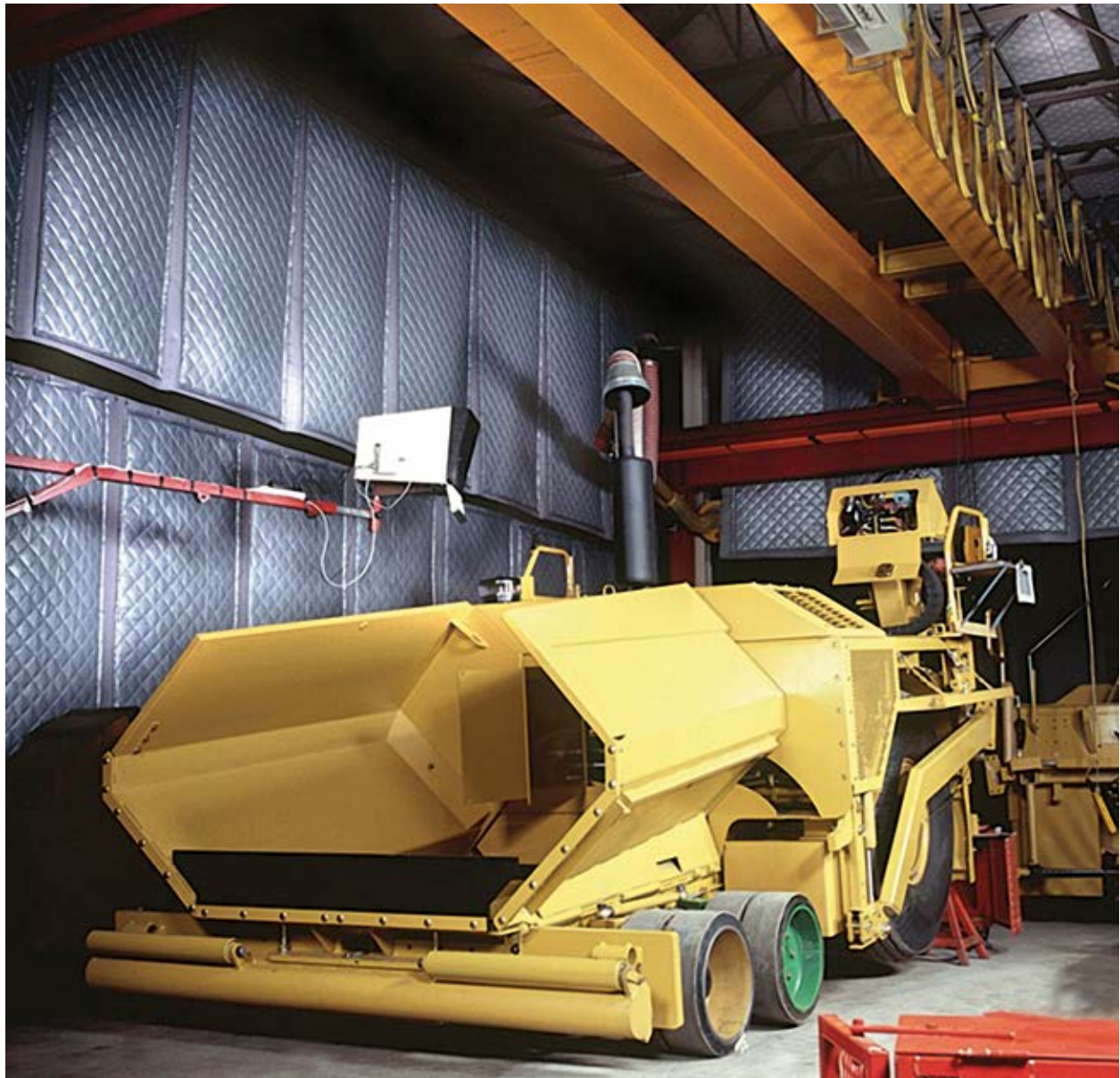
### >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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## SONEX® Curtain Barrier Backed (BB)

Product Information



Durable, SONEX® Curtain BB is a composite that features sound-absorptive WILLTEC™ foam quilted with a vinyl facing on one side and bonded to a reinforced noise barrier material. This product provides 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.

### >> Advantages

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

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# SONEX® Curtain Barrier Backed (BB)

## Product Information



### Materials

- Standard facing material is vinyl-coated fabric in grey, white, tan or black
- Optional facing hi-temp silicone-coated fabric, decorative cloth fabric or non-woven porous scrim fabric
- Curtain hardware, hanging mechanisms and configuration options include clear vinyl windows, grommets, hook and loop fasteners, doors and sliding tracks are available

### Size

- 25' (7.62 m) rolls with finished or unfinished edges
- Can be custom manufactured or integrated as a complete acoustical enclosure, giving access to machines or work cells

### 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 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: 1 lb./sq. ft.
Flammability	Class A 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 ATSM E413-73							
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC
BB-1	15	18	22	30	42	48	27

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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## SONEX® Curtain Barrier Septum (BS)

Product Information



SONEX® Curtain BS combines sound absorption and noise barrier properties in 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 contains and absorbs noise. It is 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.



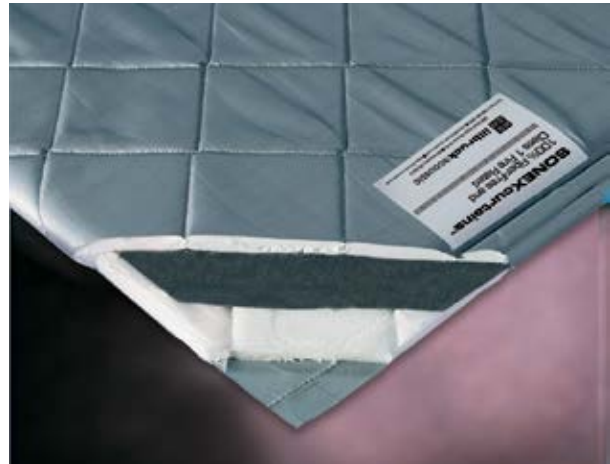
### Advantages

- Sound-absorbing layer on both sides
- Prevents sound transmission
- Rugged and durable
- Customizable
- Easy to install

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# SONEX® Curtain Barrier Septum (BS)

## Product Information



### Materials

- Standard facing material is a vinyl-coated fabric in grey, white, tan or black
- Curtain hardware, hanging mechanisms and configuration options include clear vinyl windows, grommets, hook and loop fasteners, doors and sliding tracks

### Sizes

- 25' (7.62 m) rolls with finished or unfinished edges

### Applications

- Acoustical divider between two noise sources or to 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 preexisting enclosures to further reduce noise levels
- Suitable for some outdoor applications

### 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 and 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./cu. ft. Barrier: 1 lb./sq. ft.
Flammability	Class A per ASTM E84
Flame Spread	21
Smoke Density	171

### Sound Absorption

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 ATSM E413-73							
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC
BS-1	15	19	21	24	24	48	25

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
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## SONEX® Curtain Quilted Absorber (QA)

### Product Information



#### 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.

#### Physical Data

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 per ASTM C423-90a						
	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



#### Advantages

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

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# ACRYLITE® SOUNDSTOP TRANSPARENT NOISE BARRIER SHEETS

EXTREMELY RESISTANT TO WEATHERING, RETAINS CLARITY AND  
STRENGTH THROUGH DECADES OF SUNLIGHT EXPOSURE

VISIBILITY

LIGHT ALLOWANCE

WEATHERABILITY

LIGHTWEIGHT

VERSATILE

ACRYLITE® Soundstop Transparent Noise Barrier sheet is used as noise barrier material along roads and railroads. It is easy to install, form and fabricate. The sheet is extremely resistant to weathering from UV exposure and retains a high transparency for many years—providing architecturally appealing structures.

**Visibility**

Allows businesses and scenic vistas to remain visible to the travelling public

**Light Allowance**

Allows light into backyards that would otherwise be blocked by a precast wall

**Guaranteed Performance**

Industry leading 30-year warranty against yellowing despite decades of exposure to sunlight and other elements (ASTM D 1003 & E 313 test methods)

**Weatherability**

Extremely resistant to weathering

**Lightweight**

Minimal dead load on structure

**Versatile**

Compatible with other noise barrier materials

—  
**TYPICAL APPLICATIONS**

- Roads and highways
- Commercial and residential developments
- Railways
- Airports

—  
**SPECIFICATIONS**

- Typical panel weight of 3.66psf
- Panel heights of 4', 6' and 8'
- Fits post spaces from 6' through 20'
- Available in colorless and seven standard colors, with other colors available upon request
- Optional bird-detererring markings available

**PRODUCT OFFERING**

**ACRYLITE® Soundstop**

Standard, clear and lightweight noise barrier sheet.

**ACRYLITE® Soundstop GS CC**

Incorporates polyamide filaments and is typically used on bridges and overpasses. In the event of impact by a vehicle, the imbedded filaments will hold the broken sheet, preventing fragments from falling below.

Because the ACRYLITE® Soundstop GS CC grade is self-containing, safety netting is not necessary.

**PRODUCT OVERVIEW**

Grade	Thickness (mm)	Standard Sheet Size (mm)
ACRYLITE® Soundstop	15 [19/32"] 20 [25/32"] 5 [1"]	2,030 [80"] x up to 6,000 [236"] 2,500 [98"] x up to 6,000 [236"]
ACRYLITE® Soundstop GS CC	15 [19/32"] 20 [25/32"] 25 [1"]	2,030 [80"] x 2,500 [98"] 2,030 [80"] x 3,050 [120"] 2,030 [80"] x 4,050 [159"] 2,030 [80"] x 5,050 [198"] 2,380 [93"] x 3,300 [130"]

- Non-standard and larger sizes available by request
- Polyamide filaments (GS CC) run vertically or horizontally
- Black or clear filaments available by request



MAPLE, ON

**GASKETS**

We offer EPDM gaskets compatible with our material for installing ACRYLITE® Soundstop sheet

**SERVICES**

- Cut-to-size sheets
- Surface-treated sheets (eg., with matte stripes)
- Sheets can be line-bent and/or thermo-formed
- Hands-on technical support





CARMEL, IN



CALGARY, AB



UNIVERSITY OF PENNSYLVANIA, PA



ST. CATHARINES, ON

## TECHNICAL DATA

### Mechanical

Physical Properties	Test Method	ACRYLITE® Soundstop	ACRYLITE® Soundstop GS CC
Specific Gravity	ASTM D-792	1.19	1.19
Tensile Strength	ASTM D-638	10,000psi (69MPa)	10,000psi (69MPa)
Elongation at Break (%)		4.5	4.8
Modulus of Elasticity		400,000psi (2,800 MPa)	400,000psi (2,800MPa)
Flexural Strength	ASTM D-790	17,000psi (117MPa)	16,500psi (114MPa)
Modulus of Elasticity		480,000psi (3,300MPa)	475,000psi (3,300MPa)
Compressive Strength (Yield)	ASTM D-695	17,000psi (117MPa)	18,000psi (124MPa)
Resistance Against Stone Projectiles (15mm thickness)	EN 1794-1	Pass	Pass
Impact - Wind-borne Debris in Hur- ricanes	ASTM E-1996	Pass	Pass

### Optical (Colorless)

Physical Properties	Test Method	ACRYLITE® Soundstop	ACRYLITE® Soundstop GS CC
Refractive Index	ASTM D-542	1.49	1.49
Light Transmission, Total	ASTM D-1003	92%	92%
Weathered 5 years AZ		92%	92%
Haze	ASTM D-1003	1%	1%
Weathered 5 years AZ		1.5%	1.5%
Yellowness Index	ASTM E-313	< 1	< 1
Weathered 5 years AZ		1.5	1.5

### Thermal Properties

Physical Properties	Test Method	ACRYLITE® Soundstop	ACRYLITE® Soundstop GS CC
Resistance to Brushfire (15mm thickness)	EN 1794-2	Class 2	Class 2
Deflection Temperature Under Load, 264psi	ASTM D-648	195°F (91°C)	210°F (99°C)
Co-efficient of Linear Expansion	ASTM D-696	0.000040in/in°F (0.072mm/m°C)	0.000040 in/in°F (0.072 mm/m°C)
Vicat Softening Temperature	ASTM D-1525	220°F (105°C)	239°F (115°C)
Flammability, Burning Rate (15mm thickness)	ASTM D-635	0.6 in/min (14mm/min)	0.8in/min (20 mm/min)
Self Ignition Temperature	ASTM D-1929	850°F (455°C)	910°F (490°C)
Smoke Density Rating (15mm thickness)	ASTM D-2843	20%	20%
Service Temperature	-	≤ 160°F (71°C)	≤ 180°F (82°C)

- Typical values: should not be used for specification purposes
- Values shown are for 0.25" (6mm) thickness unless noted otherwise
- Some values will change with thickness





LOS ANGELES, CA



NEWPORT BEACH, CA



MINNEAPOLIS, MN

**SOUND TRANSMISSION LOSS**

Test Method	ACRYLITE® Soundstop	ACRYLITE® Soundstop GS CC
ASTM E-90	15mm 32dB	15mm 32dB
	20mm 34dB	20mm 34dB
	25mm 36dB	25mm 36dB

**WEIGHT PER SQUARE FOOT**

Thickness	ACRYLITE® Soundstop	ACRYLITE® Soundstop GS CC
15mm (19/32")	17.9Kg/m² (3.66lb/ft²)	17.9Kg/m² (3.66lb/ft²)
20mm (25/32")	23.8Kg/m² (4.86lb/ft²)	23.8Kg/m² (4.86lb/ft²)
25mm (1")	29.8Kg/m² (6.10lb/ft²)	29.8Kg/m² (6.10lb/ft²)

**CHEMICAL RESISTANCE**

The table below gives an indication of the chemical resistance of ACRYLITE® Soundstop and Soundstop GS CC sheet. Chemical resistance is influenced by a number of factors—these include methods of fabrication, conditions of exposure, as well as the manner in which the chemicals are applied. Even R coded chemicals can influence the material's condition.

**Fabrication**

Stress generated while sawing, sanding, machining, drilling, and/or forming.

**Application of Chemicals**

Chemicals contacting the sheet, by rubbing, wiping, spraying, etc.

**Exposure**

Length of exposure, stresses due to various loads, changes in temperatures, etc.

Chemical	Code
Acetone	N
Ammonium Chloride	R
Ammonium Hydroxide (Concentrated)	R
Aromatic Based Graffiti Removers	N
Battery Acid	R
Benzene	N
Butyl Acetate	N
Calcium Chloride (100%)	R
Calcium Hypochlorite	R
Calcium / Magnesium Acetate	R
Citric acid (20%)	R
CMAK (Potassium Acetate/ Calcium Magnesium acetate)	R
Diesel Oil	R
Ethyl Alcohol (30%)	LR
Ethyl Alcohol (95%)	N
Ethylene Glycol	R
Gasoline	LR

Chemical	Code
Heptane	R
Hexane	R
Hydrochloric Acid	R
Ice Ban® Ultra™ M	R
Isopropyl Alcohol	LR
Kerosene	R
Lacquer Thinner	N
Magnesium Chloride	R
Methyl Alcohol (30%)	LR
Methyl Alcohol (100%)	N
Methyl Ethyl Ketone (MEK)	N
Methylene Chloride	N
Potassium Acetate	R
Sodium Acetate	R
Sulphuric Acid (3%)	R
Sulphuric Acid (30%)	R
Sulphuric Acid (Concentrated)	N
Toluene	N

This table should only be used as a general guide and should be supplemented by tests made under actual working conditions.

The codes used to describe chemical resistance are:

**R = Resistant**

ACRYLITE® Soundstop sheet withstands this substance for long periods and at temperatures up to 120°F (49°C).

**LR = Limited Resistance**

ACRYLITE® Soundstop sheet only resists the action of this substances for short periods at room temperatures. The resistance for a particular application must be determined.

**N = Not Resistant**

ACRYLITE® Soundstop sheet is not resistant to this substance. It is either swelled, attacked, dissolved or damaged in some manner.





MISSION VIEJO, CA

## IMPORTANT NOTICE

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[DURISOL.COM](http://DURISOL.COM)

# NARROW FOOTPRINT RETAINING WALL SYSTEM

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PANEL & POST DESIGN

---

MINIMAL EXCAVATION/  
BACKFILL AREA

---

HOLDS TIGHT TO  
RIGHT-OF-WAYS

---





INTEGRATES WITH DURISOL  
PRECAST NOISE BARRIER  
SYSTEM





Durisol's **Narrow Footprint Retaining Wall System (NFRWS)** is a cantilevered system especially situated for installations with a narrow right-of-way and where space does not permit the use of a mechanically stabilized solution behind the wall. The absence of straps and tie-backs allows the panels to be independent of the backfill, minimizing the excavation/backfill area and permitting the system to be constructed tight to right-of-ways and lot lines.

The NFRWS is typically designed for wall heights up to 4m (13 feet), consisting of augered concrete footings, structural steel posts, and reinforced concrete facing panels. The system is designed around Durisol's NB12 and NB15 post spacing.

 <b>STRONG &amp; DURABLE</b>	 <b>ECONOMICAL</b>	 <b>FUNCTIONAL</b>	 <b>VERSATILE</b>
<ul style="list-style-type: none"> <li>Designed for a minimum <b>75-year service life</b> (per CHBDC)</li> <li>Can handle <b>surcharge loads</b></li> <li>Proven <b>long-term performance</b></li> </ul>	<ul style="list-style-type: none"> <li><b>Fast to construct</b> - Panel installation independent of backfill</li> <li><b>No tie-backs</b> - System holds tight to lot lines</li> <li><b>Simplifies removals</b> and other site construction considerations</li> </ul>	<ul style="list-style-type: none"> <li><b>Efficient land usage</b> - Minimizes property loss while protecting vegetation and structures</li> <li><b>Minimal excavation/backfill area</b></li> <li><b>Ease of installation</b> - Lightweight post and panel system calls for minimal lifting equipment and crew</li> <li><b>Engineered in-house</b> - To suit application</li> </ul>	<ul style="list-style-type: none"> <li><b>Can be integrated</b> with Durisol precast noise barrier system (NB12 and NB15) and with precast concrete traffic barriers</li> <li><b>Variety of finishes</b> - Absorptive or reflective textures and colours (can be coordinated with associated noise walls)</li> <li><b>Flexibility in its construction process</b> - Can be constructed prior and subsequent to site servicing</li> </ul>

### MTO DSM Listed

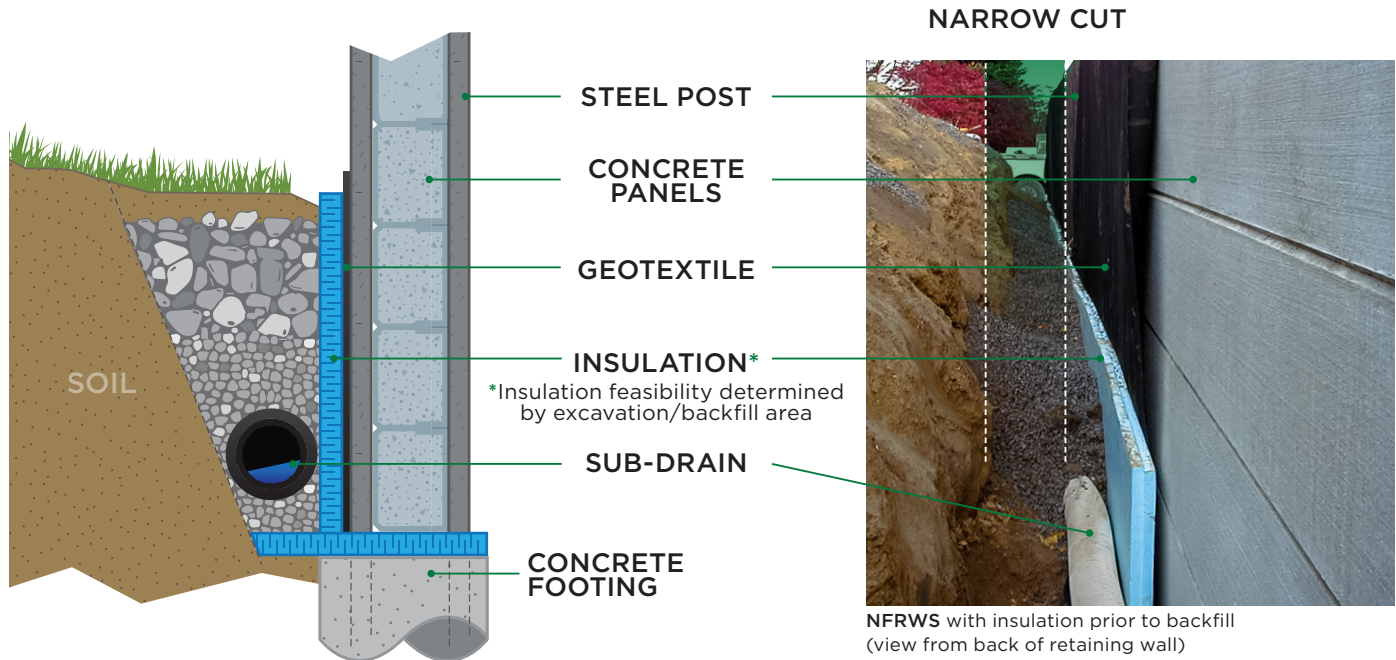
Approved up to 4.0m height, high performance (List #9.70.56)



Narrow Footprint design used for residential application next to existing housing structure.

## ENGINEERING WITH EXPERTISE

Durisol's in-house engineering designs all NFRWS based on their application and individual parameters. Design parameters include, but are not limited to, a full geotechnical report of soils present on site including borehole logs, proposed slopes at the top and bottom of the wall, any additional surcharge loads, and the proposed height of the retaining wall system. These factors help in determining the steel post section required and the depth and diameter of concrete footings needed to handle the retaining loads.



## FINISHES

### ON DURISOL



1004B NATURAL



1082D TAN



1538B GREY



02589 TAN



09187 GREY



11988 BROWN

### ON CONCRETE



NATURAL  
CONCRETE



PAINTED



We can match  
**ANY COLOUR!**



An **ANTI-GRAFFITI** coating can be applied onto concrete panels.

**FOR TIMELESS STYLE**, talk to us about having our natural stone pattern on your panels.



We can do  
**CUSTOM TEXTURES**,  
let us know  
what you have  
in mind!



## ROBUST & INTEGRATED SOLUTIONS

The NFRWS offers the integration of a noise/retaining wall system or integrated traffic barrier/retaining wall system, designed as a lean, vertical stacked system. It is an ideal system for grade separation applications that have a requirement for both noise attenuation and earth retaining. The integrated NFRWS combines two systems into one, minimizing property loss and the need to sequence construction for two separate systems.

The retaining wall post and footing design typically governs in this scenario, as it is designed to retain large earth pressures behind the wall and meet different code requirements. The integration of noise wall is designed to withstand wind loads, minimizing impact on the overall footing and post design.

### FEATURES & BENEFITS

- Engineered in-house to suit application
- Eliminates the need for two separate systems
- Integration of two systems minimizes property loss and simplifies construction process
- Noise barrier panels designed to integrate above reinforced concrete earth retaining panels
- A unique system with optional absorptive finish from top to bottom of wall

### PRIOR TO BACKFILL

View of the integrated noise/retaining wall during construction



### COMPLETION OF BACKFILL & FINAL GRADING

View of the integrated noise/retaining wall after construction





# UTILITY ENCLOSURES & FIRE RATED BARRIERS

DURISOL FIRESTOP IS AN INTEGRAL PIECE OF THE FIRE SUPPRESSION AND CONTROL SYSTEM WITHIN SUBSTATIONS

---

FIRE RATED

---

NOISE REDUCTION

---

NON-CONDUCTIVE

---

AESTHETIC OPTIONS

---

LIGHTWEIGHT PRECAST



We all take electricity for granted. It is not until we experience an outage, that we stop to realize its true impact on our daily lives.

An unfortunate reality, a major cause of outages are from transformer fires.

As your utility solutions provider, we can help to keep the transmission system safe from costly repairs and outages.

## FIRE RATED BARRIERS: THE DURISOL FIRESTOP SYSTEM



Serving world-class power distribution providers for decades, we are proud partners of utility owners and their contractors across North America.

Transformers demand a specialized fire suppression solution to control fires safely within high-voltage areas. The Durisol FireStop System offers a higher margin of safety over traditional precast barriers by containing and preventing the spread of fire.

Our barriers meet the industry standards that matter most to electric utilities, including IEEE 979 and NFPA 850 & 851 codes.

### Durisol fire walls are ideal for high-voltage electric substations

**Public Appeal** - Panels come in a variety of architectural textures, patterns and colors that will fit in any neighborhood.

**Ease of Installation** - Lightweight post and panel system calls for minimal lifting equipment and crew.

**Quieter Surroundings** - Alleviate noise concerns with noise absorbing panels that prevent reverberation experienced with standard precast walls.

**Engineered to Last** - Our walls have been in continuous service since 1977 and have been tested to withstand multiple fires without needing to be replaced.

**Non-conductive** - Excellent dielectric properties.

### FIRE SEPARATION & CONTAINMENT WALL







## TESTING

- Tested to ASTM E84-10 and CAN/ULC S101
- Compliant with the IEEE 979
- Meets NFPA 850 & 851 Code Requirements
- Hose stream tested
- Noise absorption of 0.70 - 0.90 NRC

## DESIGN DETAILS

**BELOW IS OUR STANDARD NB15 POST & PRECAST WALL SYSTEM SPECIFICATIONS. PLEASE NOTE THAT OUR SYSTEM IS CUSTOMIZABLE TO YOUR SPECIFIC SITE REQUIREMENTS.**

**Wall heights:** up to 43ft (13m)

**Post spacing:** 15ft (4.56m) from center-to-center

**Post type:** Concrete (for fire-rated) or galvanized steel

**Typical Post Footings:** available in either continuous foundation style or pier foundation to limit underground disturbances

**Precast panels:** 15ft (4.57m) long by 18-48in (0.46-1.22m) high

**Noise absorption:** Double-sided or single-sided absorptive panels available

**Retainment:** Can be designed with integrated retaining wall panels

### DID YOU KNOW?

Our post spans reach 15ft (4.56m) in our standard design, but can be designed for even greater distances with our engineering guidance.



## TRANSPARENT ENCLOSURES

### ACRYLITE® Soundstop Utility Noise Barrier Enclosure

Incorporate ACRYLITE® Soundstop Non-conductive, Reflective and Transparent Noise Barrier sheets to allow light and visibility for maintenance workers in utility yards. Translucent sheets, as shown, provide light and offer an additional level of privacy over traditional transparent sheets.



## TRUE ENGINEERING PARTNERS.

Each project is unique, but we tackle every opportunity from a similar integrated planning approach that has been vetted through years of experience.

Our Durisol design and engineering team will ensure you have a wall design that considers a 360 view of the utility site. From limiting underground disturbances to providing ready-grade beams or longer spans as needed, we remain flexible through unforeseen challenges and provide continuous support and solutions through each critical project stage.

### A TIME-SAVER

"Durisol was selected as the perimeter wall of choice for our client because they could deliver on the tight turnaround. Having stamped drawings and a design in hand helped move the process along quicker, and the speed of which they could get the material to site allowed us to start working faster. The post & panel system itself has also been a huge time saver on the install."

Jeff Dykstra  
Sargent & Lundy

## START THE INSTALL WHEN YOU NEED.

Our Durisol Firestop wall is as easy to assemble as it is to disassemble during transformer repair and maintenance. It consists of vertical precast concrete posts and drop-in-place panels, and is designed with fire rated posts and thermal calking at joints.

A lightweight panel allows us to deliver more panels, faster than your average precast delivery.

### NOT YOUR AVERAGE PERIMETER WALL





## COLORS & FINISHES

Perimeter noise walls and enclosures don't have to be boring. We have a set of standard colors and patterns below, as well as full-customization available to fulfill both aesthetics and functionality.



02589 TAN



1082D TAN



11988 BROWN



1004B NATURAL



09187 GREY



1538B GREY



PLAIN FLAT



NEW NATURAL STONE



**FIRE PROTECTION  
+  
NOISE MITIGATION**





DURISOL.COM

# MASH TL-3 CRASH TESTED NOISE BARRIER PRODUCT GUIDE

FIRST-OF-ITS-KIND GROUND-MOUNTED ABSORPTIVE NOISE BARRIER  
SYSTEM CRASH-TESTED TO MASH TL-3 CONDITIONS

---

MASH TL-3 IMPACT LOADS

---

INTEGRATED PRECAST BARRIER

---

NOISE ABSORPTION

---

MODULAR DESIGN

---

CUSTOM FINISHES



Durisol® completes MASH (Manual for Assessing Safety Hardware) crash tests for our systems so that we have the peace-of-mind knowing they are going to hold up when they are needed most and aren't going to fail in real world scenarios.

As dictacted by AASHTO (the American Association of State Highway and Transportation Officials), impact speed and angle represent the worst practical condition which is traditionally set at 85th percentile level. Passenger vehicles selected to represent 2nd and 90th percentile.

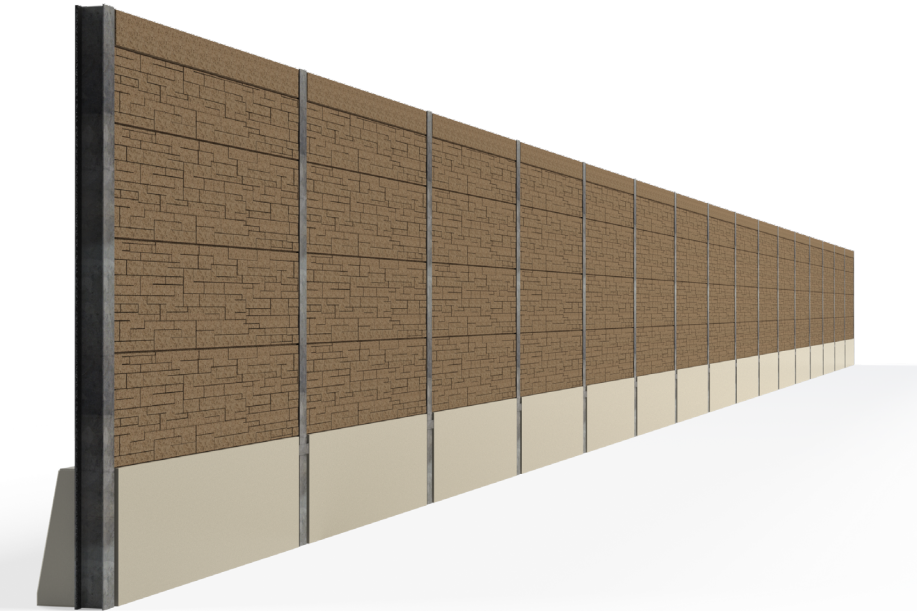
AASHTO MASH TL-3 CRITERIA

Criteria	AASHTO MASH
Vehicle	1100 kg (2425 lb) Small Car 2270 kg (5000 lb) Pickup
Speed	100 km/h (62 mph)
Impact Angle	Small Car 25° Pickup 25°
Test No.	Small Car 3-10 Pickup 3-11

INTRODUCING: DURISOL® MASH TL-3 CRASH TESTED SYSTEM

Durisol® MASH TL-3 System is a modular absorptive ground mounted noise barrier system with an integrated precast concrete crash railing.

- 39" (1,000mm) high precast steel reinforced concrete single slope traffic barrier with proprietary connection to the noise barrier post
- W-10 (W250) post ground mounted post design
- Overall crash tested height of soundwall system installation above pavement was 17.3' (5.273m), however, designs can vary.







MARKING IMPACT ZONE

## WHAT IS DURISOL®

Durisol® is the proprietary name of a durable, lightweight and cementitious/wood composition product. It is made of chemically neutralized and mineralized organic softwood shavings which are specially processed to an acoustically engineered size and are bonded together under pressure with Portland cement.

The material is sound-absorbent, non-combustible, vermin and rot proof. Durisol is self-draining and highly resistant to weather exposure including: freeze-thaw, road de-icing chemicals and fungicides.

All Durisol noise barrier systems are engineered in-house, specifying the size for posts and the depth and diameter of footings. Standard steel posts or optional concrete posts can be accommodated.

The MASH TL-3 Noise Barrier System is available in the same range of existing Durisol standard colors and finishes. Custom colors and finishes available.

## STANDARD COLORS



1004B NATURAL



1082D TAN



1538B GREY



02589 TAN



09187 GREY



11988 BROWN

## FEATURES

- MASH TL-3 Crash Tested
- Double sided absorptive – with 0.80 NRC on both highway and residential
- Modular design
- Easy installation
- Lightweight
- Non-combustible
- Non-absorptive panels are an option as well



\*This palette serves as a guide only;. Durisol's real-life texture will offer a variance in color. Color appearance also varies depending on time-of-day, light reflectance, etc.



## MASH TL-3 CRASH TEST 3-10 (SMALL CAR) SUMMARY

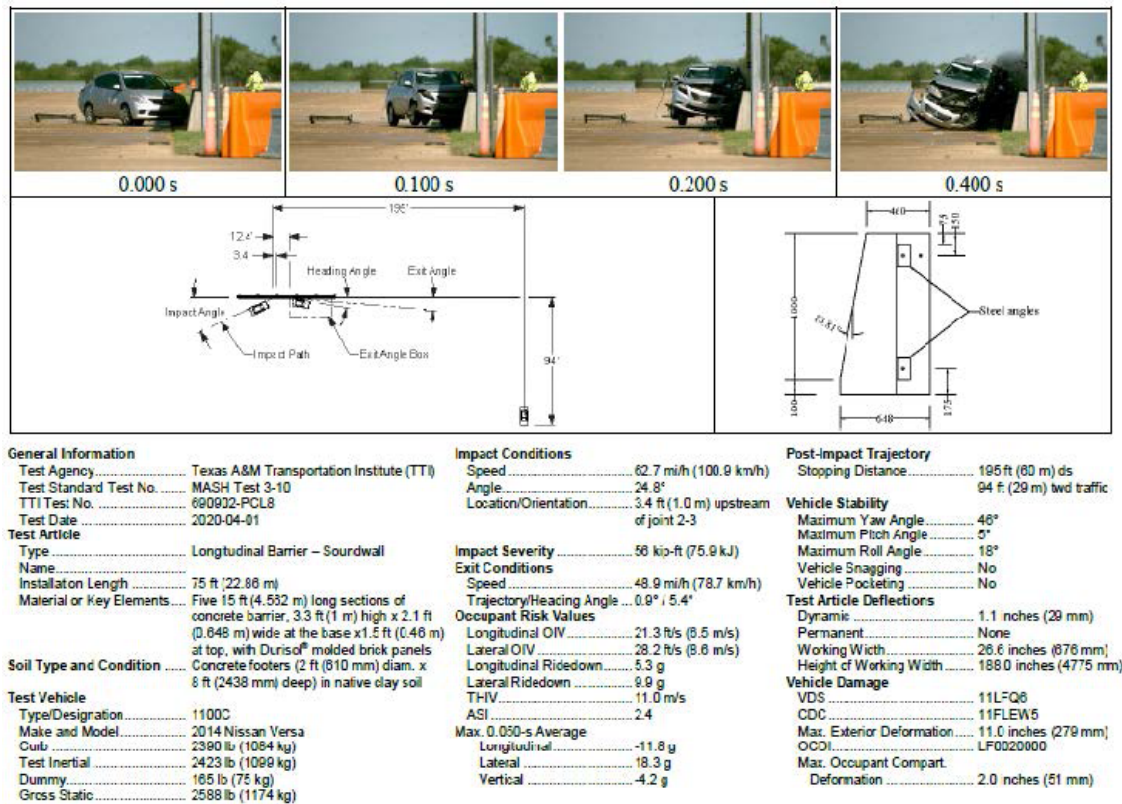


Figure 5.7. Summary of Results for MASH Test 3-10 on Traffic Barrier with Soundwall System.

## MASH TL-3 CRASH TEST 3-11 (PICK-UP TRUCK) SUMMARY

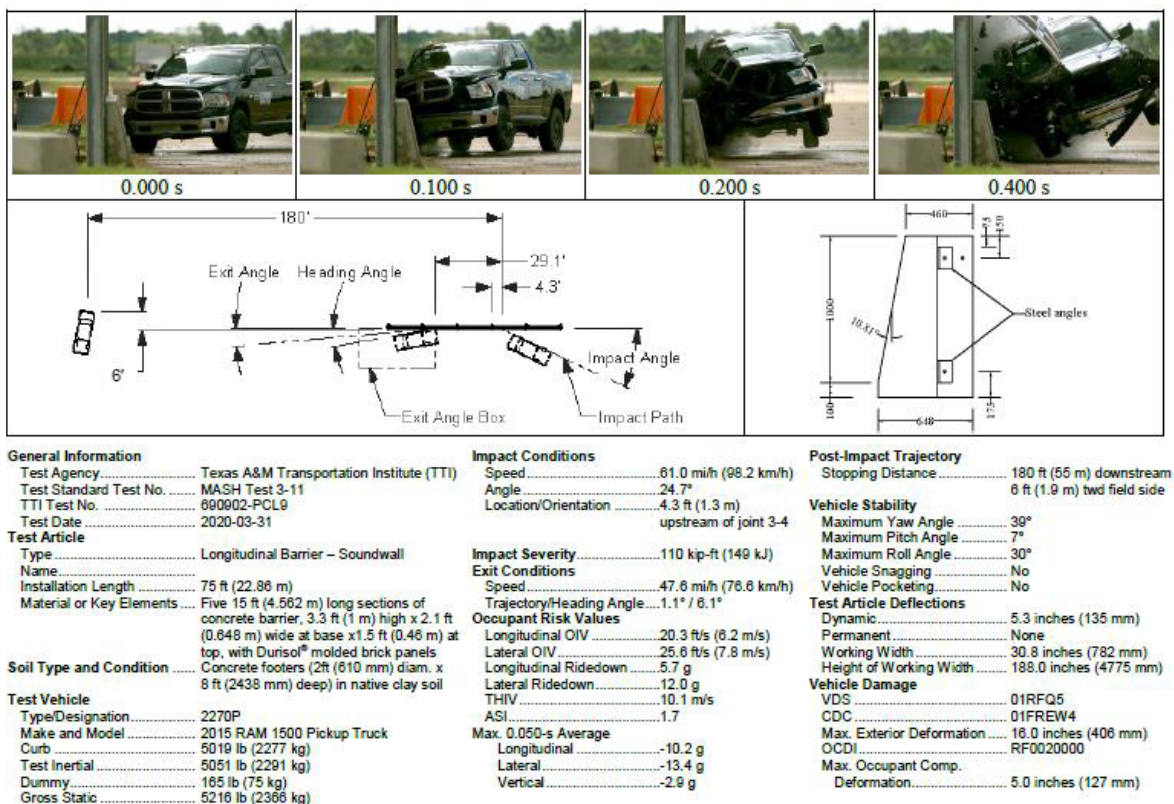


Figure 6.6. Summary of Results for MASH Test 3-11 on Traffic Barrier with Soundwall System.





DURISOL.COM

# ACRYLITE® SOUNDSTOP MASH TL-4 NOISE BARRIER SYSTEM PRODUCT GUIDE

LIGHTWEIGHT, CRASH TESTED NOISE BARRIER SYSTEM FOR  
BRIDGES AND ELEVATED ROADWAY APPLICATIONS

---

SAFEST NOISE BARRIER  
AVAILABLE

---

LIGHTWEIGHT

---

ATTRACTIVE

---

CRASH TESTED TO  
MASH TL-4 CRITERIA



The Durisol®-Acrylite® Soundstop MASH TL-4 Noise Barrier System is a lightweight noise barrier system for bridges and elevated roadway applications. The system has been successfully tested under MASH Test Level 4 conditions, and proven to stabilize a vehicle and reduce the severity of auto crashes.

The system is a complete turnkey solution for transparent noise barriers, vandal shields or wind screens on bridges and overpasses. These “no maintenance panels” will retain clarity and physical strength despite decades of exposure to sunlight and other elements (ASTM D 1003 & E 1996 test methods). Components meet or exceed FHWA and DOT standards.

#### Safest Noise Barrier Available

Meets MASH TL-4 test conditions

#### Lightweight

As little as 100lbs per linear foot

#### Attractive

Panels are available as clear or colored panels

#### Performance

Excellent sound insulating properties

#### TYPICAL APPLICATIONS

- Bridges and structures



The **Durisol®-Acrylite® Soundstop MASH TL-4 Noise Barrier System** is crash-tested and contains polyamide filaments for fragment retention.

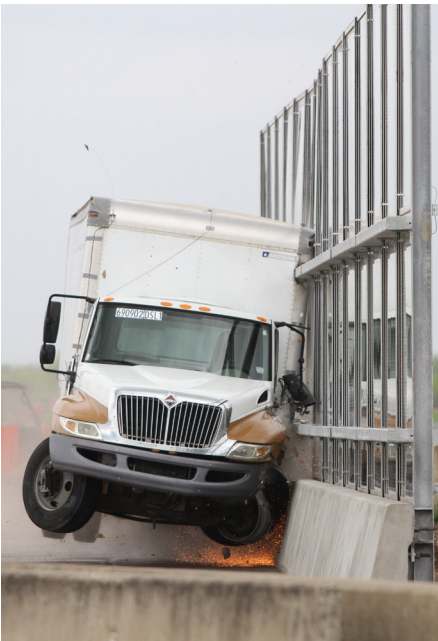




**MANUAL FOR ACCESSING SAFETY HARDWARE (MASH) TEST LEVEL 4,  
TEXAS A&M TRANSPORTATION INSTITUTE PROVING GROUND, COLLEGE STATION, TX**



A 22,180LBS (10,060KG) TRUCK IMPACTS THE MASH TL-4 SYSTEM AT 58MPH ON A 15°ANGLE



THE DURISOL®-ACRYLITE® SOUNDSTOP MASH TL-4 SYSTEM STABILIZES THE VEHICLE AFTER IMPACT



DAMAGED AREAS SHOW HOW THE DURISOL®-ACRYLITE® SOUNDSTOP MASH TL-4 SYSTEM REDUCES THE SEVERITY OF THE CRASH



MASH 4-12 SEQUENTIALS



MASH 4-11 SEQUENTIALS



MASH 4-10 SEQUENTIALS

**“That is the most stable TL-4 crash test I’ve ever seen.”**

- Senior FHWA Official in the Office of Safety Design



Soundstop GS CC has embedded polyamide filaments to contain broken fragments resulting from collision damage (complies with EN 1794-2)



SOUNDSTOP GS CC

## AVAILABLE COLORS

Soundstop GS CC sheet for the Durisol®-Acrylite® Soundstop MASH TL-4 System is available in the following standard colors.

The color impression remains the same in different thicknesses. Other colors can be manufactured upon request.

	CLEAR
	MIDNIGHT BLUE
	STEEL BLUE
	SKY BLUE
	FOREST GREEN
	SEA GREEN
	SPRING GREEN
	SMOKY BROWN





### AVAILABLE THICKNESSES

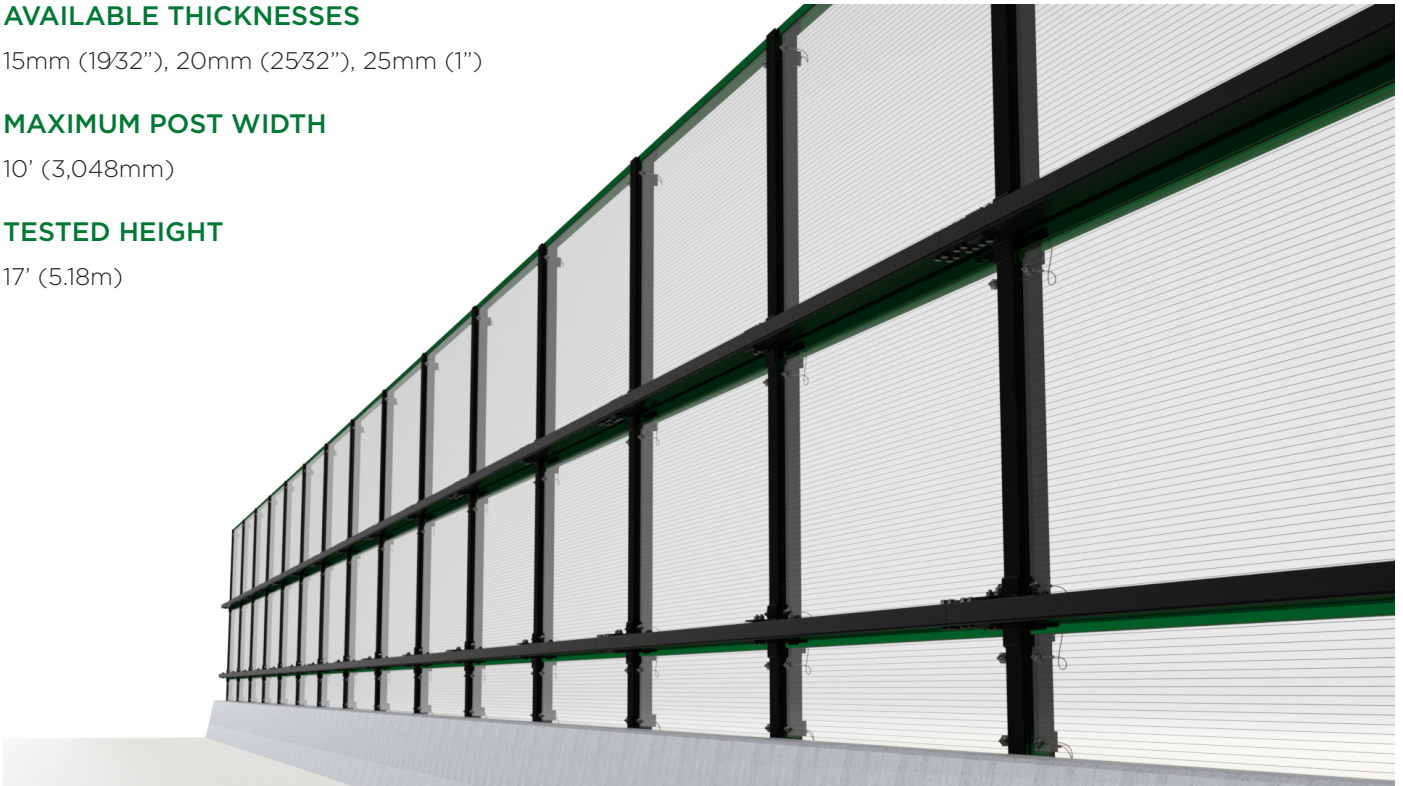
15mm (19/32"), 20mm (25/32"), 25mm (1")

### MAXIMUM POST WIDTH

10' (3,048mm)

### TESTED HEIGHT

17' (5.18m)





## GENERATION I SYSTEM - NCHRP 350 (2005)

The history of our Durisol®- Acrylite® Soundstop MASH TL-4 system has roots back to our first generation system which was tested under the National Cooperative Highway Research Program 350 (NCHRP 350) back in 2005 at the Midwest Roadside Safety Facility at the University of Nebraska-Lincoln. With over 100 installations for various State DOTs and Provinces, the history of this system has legacy of proven performance, durability, and most important of all safety for the motoring public.



INTERSTATE 40 - KNOXVILLE, TN



INTERSTATE 580 - SAN LEANDRO CA



INTERSTATE 580 - SAN LEANDRO CA



INTERSTATE 580 - SAN LEANDRO CA



INTERSTATE 580 - SAN LEANDRO CA





INTERSTATE 71 - COLUMBUS, OH



ROUTE 52 - OCEAN CITY CAUSEWAY - NEW JERSEY



INTERSTATE 5 OVER EL CAMINO REAL - SAN CLEMENTE, CA



INTERSTATE 110 / 37TH ST BUS STATION - LOS ANGELES, CA



HIGHWAY 407- TORONTO, ON



INTERSTATE 71 - COLUMBUS, OH



SR408 / SR417 INTERCHANGE - ORLANDO, FL



INTERSTATE 75 - TOLEDO, OH





DURISOL.COM

# ALUMINUM MASH TL-4 CRASH-TESTED NOISE BARRIER PRODUCT GUIDE

INTRODUCING THE DURISOL® ALUMINUM MASH TL-4 CRASH-TESTED  
NOISE BARRIER SYSTEM

TL-4 IMPACT LOADS

PANEL RETENTION SYSTEM

MODULAR & LIGHTWEIGHT

NOISE ABSORPTION

Major roadways and highways are being built alongside urban areas. Space constraints on road and bridge designs have led to the need for a combined bridge safety and noise barrier in one.

Durisol® has completed MASH (Manual for Assessing Safety Hardware) crash testing to ensure our barrier systems hold up in real-world.

As dictated by AASHTO (the American Association of State Highway and Transportation Officials), the impact speed and angle of the crash-test represent the worst practical conditions.

Our Aluminum noise barrier system has been tested and has successfully met the TL-4 criteria of 80 kips.

### AASHTO MASH TL-4 CRITERIA

Criteria	AASHTO MASH
Vehicle	10,206 kg (22,500 lb) Box Truck
Speed	93 km/h (58 mph)
Impact Angle	15°
Test No.	4-12



### DURISOL® MASH TL-4 CRASH-TESTED ALUMINUM SYSTEM

The Durisol® MASH TL-4 Aluminum System is a light-weight, structure-mounted noise barrier system. Built with perforations and a sound absorbing mineral wool interior, our panels are available in single or doubled-sided absorptive, and noise reflective options.

### UNIT WEIGHT

8 - 12 lbs / square foot (3.63 - 5.44 kg / square meter)

### POST DESIGN

W-6 (W150) structure-mounted post

### MAXIMUM POST WIDTH

10' (3,048mm)

### TESTED HEIGHT

17' (5.18m)

### APPLICATIONS

While our Aluminum noise wall system is well-suited for a variety of applications, our MASH TL-4 crash-tested system was designed as a structure-mounted system for safer bridges.





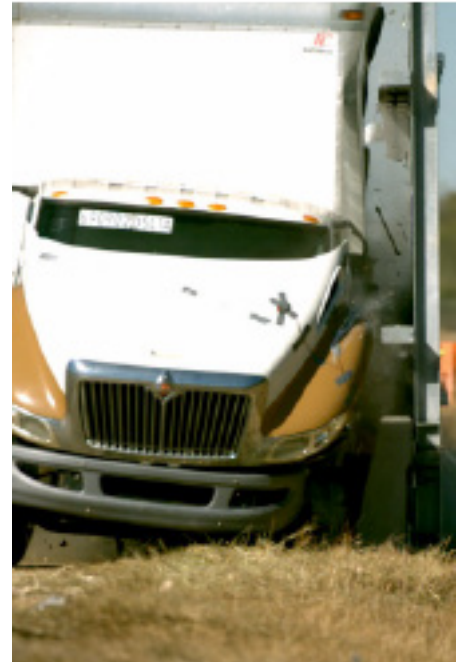
MANUAL FOR ACCESSING SAFETY HARDWARE (MASH) TEST LEVEL 4,  
TEXAS A&M TRANSPORTATION INSTITUTE PROVING GROUND, COLLEGE STATION, TX



A 22,500 LBS (10,206 KG) TRUCK IMPACTS THE MASH TL-4 SYSTEM AT 58MPH ON A 15° ANGLE

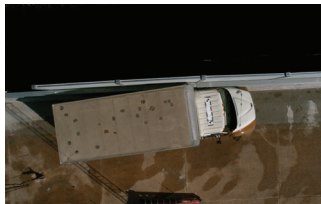


THE DURISOL®-ALUMINUM MASH TL-4 SYSTEM STABILIZES THE VEHICLE AFTER IMPACT



DAMAGED AREAS SHOW HOW THE DURISOL®-ALUMINUM MASH TL-4 SYSTEM REDUCES THE SEVERITY OF THE CRASH

MASH 4-12 SEQUENTIALS



Despite the severity of the impact, the **Durisol® MASH TL-4 Aluminum Noise Barrier System** provided excellent vehicle stability. The wall panels remained intact, and minimal damage was recorded.







# Data & Specifications

## Noishield® Sound Barriers



## Noishield® Sound Barriers Protect Communities Against Noise

### Highly Absorptive Noishield® Panels Maximize Noise Reduction

HVAC Equipment | Chillers | Pumps | Compressors | Fans | Transformers & Electrical Substations  
Highway & Rail Transportation Systems | Loading Docks | Rail-Yards | Drive-Thrus | Salvage Yards

### Overview

- Galvanized Steel or Aluminum
- Free-Draining
- Light Weight
- Easily Installed
- Highly Sound Absorptive
- Weather-Tested Finishes
- Freestanding or Add-on Cladding Panels
- Relocatable
- Horizontal or Vertical Installation

### Standard Features



Laboratory Rated Acoustic Performance  
STC-30 to STC-33  
NRC 1.00 to 1.05



Excellent weather and corrosion resistance. Galvanized steel materials with powder coated finish applied post assembly. Fully non-welded construction to avoid damage to galvanized coating.



Freestanding, able to span supports of up to 20 feet depending on local codes and wind-speed requirements.

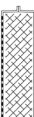





## Freestanding Barriers

Noishield Types: FS and SFS Barriers — sound absorptive on one and two sides respectively — optimize sound transmission loss and sound absorption properties in a durable and attractive wall system in harmony with the community.




- Excellent low frequency absorption for heavy equipment
- Laboratory-rated sound absorption on one or both sides
- Low weight, rugged construction — ideal for wall or roof mounting
- 5" thick (127 mm) modular metal module system in steel or aluminum
- Abuse resistant dual-coated, galvanized steel or aluminum construction
- Withstands wind velocities of 110 mph (177 km/hr) — designs for specific wind loads are available
- Readily relocated in the event of expansion or other projects

Configuration		Type FS	Type SFS
		 Thickness 5" / 127 mm	 Thickness 5" / 127 mm
Weight lb/ft <sup>2</sup> (kg/m <sup>2</sup> )	Steel	FS/S-6.5 (31.7)	SFS/S-9.9 (48.3)
	Aluminum	FSt/S*-8.6 (42.0)	-
Application		Freestanding along-side noisy equipment	Freestanding between multiple noise sources

## Sound Absorptive Treatment for New Construction & Retrofit Applications

Noishield Type C Cladding Modules — sound absorptive to control reflections from acoustically hard barriers

- Apply to new or existing wood, concrete or steel barriers to reduce reflected noise levels in the community
- Retrofit existing barriers to eliminate or mitigate noise complaints
- Low weight, rugged construction — ideal for retrofit applications
- Laboratory-rated sound absorption coefficients
- 2-1/2" (64 mm) thick metal module system
- Abuse resistant galvanized steel or aluminum construction
- Individual modules readily manufactured and replaced if damaged

Configuration		Type C	Type C12	Type C38
		 Thickness 2.5" / 64 mm	 Thickness 3" / 76 mm	 Thickness 4" / 102 mm
Weight lb/ft <sup>2</sup> (kg/m <sup>2</sup> )	Steel	C/S-3.25 (15.9)	C12/S-3.55 (17.3)	C38/S-4.05 (19.8)
	Aluminum	C/A-1.1 (5.4)	C12/A-1.4 (6.8)	C38/A-1.9 (9.3)
Application		Apply to new or retrofit existing metal, wood, brick, concrete, stone or other noise-reflecting walls. Select Types C12 & C38 for enhanced 125Hz sound absorption.		



## Acoustic Performance

Noishield barrier panels are rated with sound transmission loss values fully compatible with typical acoustic screen performance requirements. All Noishield barrier panels incorporate sound absorbing materials to prevent noise reflections that degrade barrier performances. Type C modules are used to clad new or existing non-absorbing barriers while Type FS and SFS are free-standing walls that combine excellent sound transmission loss (used for 125 Hz insertion loss up to 10 dB) with high sound absorption ratings.

\* Freestanding Type FSt is used for applications requiring 125 Hz insertion loss between 10 and 14 dB.

Barrier Model	1/3 Octave Band Center Frequency, Hz							
	125	250	500	1k	2k	4k	8k	STC
	Sound Transmission Loss, dB							
FS/S and SFS/S	21	34	40	33	32	26	37	30
FSt/S	24	38	41	33	35	29	34	33
FS/A and SFS/A	21	32	37	30	37	28	30	31
	Sound Absorption Coefficients							NRC
FS/S, FS/A and FSt/S	1.12	1.12	1.10	1.01	0.89	0.76	0.57	1.05
SFS/S and SFS/A	0.49	1.04	1.14	1.05	0.96	0.95	0.87	1.05
C/S and C/A	0.30	1.05	1.07	1.01	0.96	0.88	0.78	1.00
C12/S and C12/A	0.48	1.08	1.10	0.99	0.92	0.83	0.78	1.00
C38/S and C38/A	0.68	1.19	1.10	1.03	0.90	0.81	0.76	1.05

- Sound Transmission Loss: All data in accordance with ASTM E90 and E413
- Sound Absorption Coefficients: All data in accordance with ISO Standard 354, ASTM C423 and E413 with 120 ft<sup>2</sup> (11.15 m<sup>2</sup>) test sample in 10,000 ft<sup>3</sup> (262 m<sup>3</sup>) reverberation room. Type A mounting. Coefficients greater than 1.0 result from edge diffraction effects. Do not use sound absorption values greater than 0.95.

## Durable Noishield Barrier Finishes

Noishield Barriers are finished with a tough, thermosetting, polyester powder coating which is not damaged by the harsh cleaning chemicals used to remove spray paint graffiti. A wide variety of standard colors allow complementary decorative schemes and attractive designs to reduce apparent wall height as perceived by the community.

- Tested for accelerated weathering per ASTM G23 for 2,400 hours with chalking not less than No. 8 rating (ASTM D 659) and color changes less than 5 NBS units (ASTM D 2244)
- Salt spray tested for checking, blistering, loss or adhesion, or evidence of corrosion per ASTM B117 for more than 4,000 hours without coating failure

## Weather Shedding Construction

Noishield Sound Barrier Modules are constructed with solid top surfaces to minimize water infusion and perforated bottom surfaces to allow any entrapped water to escape. Infill is non-hygroscopic — water does not “wick” into the modules. Hence, traditional polymer fill protection is neither required or desirable due to adverse effects on sound absorbing characteristics.

## Ground Mount / Roof Mount / Structure Mount

Noishield Sound Barriers are engineered from the foundation up for structural and acoustical integrity and economic installation. Low weight modules stack between posts to achieve required wall heights. Noishield Barriers can be installed with horizontal or vertical reveals to satisfy aesthetic and architectural considerations.



# Specifications | Noishield® Sound Barriers FS/S Module

Section 32 35 16 | Sound Barriers | FS Noishield Barriers

## Part 2 — Products

### 2.01 Manufacturers

#### A. Basis of Design: IAC Acoustics, Noishield Barrier Wall System

1. IAC Acoustics, 40 Shuman Boulevard, Suite 201, Naperville, IL, 60563; Telephone: (630) 270-1790; Website: [www.iacacoustics.com](http://www.iacacoustics.com)

### 2.02 Performance Requirements

Specifier Note: Select one of the following options for panel construction. Delete the alternative. Apply to panel structural requirements as well.

#### A. FS/S (steel construction) Sound Transmission Loss (dB) per ASTM E90 & Sound Transmission Class (STC) per E413:

1/3 Octave Band Center Frequency (Hz)	125	250	500	1K	2K	4K	8K	STC
Noishield FS/S (steel construction)	21	34	40	33	32	26	37	30

#### B. FS/S (steel construction) Sound Absorption Coefficients per ASTM C423:

1/3 Octave Band Center Frequency (Hz)	125	250	500	1K	2K	4K	8K	NRC
Noishield FS/S (steel construction)	1.12	1.12	1.10	1.01	0.89	0.76	0.57	1.05

#### C. FS/A (aluminum) Sound Transmission Loss (dB) per ASTM E90 & Sound Transmission Class (STC) per E413:

1/3 Octave Band Center Frequency (Hz)	125	250	500	1K	2K	4K	8K	STC
Noishield FS/A (aluminum construction)	21	32	37	30	37	28	30	31

#### D. FS/A (aluminum) Sound Absorption Coefficients per ASTM C423:

1/3 Octave Band Center Frequency (Hz)	125	250	500	1K	2K	4K	8K	NRC
Noishield FS/A (aluminum construction)	1.12	1.12	1.10	1.01	0.89	0.76	0.57	1.05

Specifier Note: Retain the longest applicable span. Delete the remaining options.

- E. Structural:** Galvanized steel panels shall be designed to withstand a wind pressure of [24.2 PSF at a span of twenty (20) feet] [37.8 PSF at a span of sixteen (16) feet] [67.3 PSF at a span of twelve (12) feet] without reinforcement.
- F. Structural:** Aluminum panels shall be designed to withstand a wind pressure of [14.3 PSF at a span of twenty (20) feet] [22.3 PSF at a span of sixteen (16) feet] [39.7 PSF at a span of twelve (12) feet] without reinforcement.
- G. Corrosion Testing:** Modules shall prove testing for corrosion resistance in accordance with ASTM B117. After 2,400 hours of exposure, the coating system shall not fail due to blistering, loss of adhesion or corrosion along the score lines.
- H. Weather Testing:** Modules shall prove testing for accelerated weathering in accordance with ASTM G23. After 2,400 hours of testing, module samples shall not exhibit chalking greater than No. 8 per ASTM D4214 or a color change greater than 5 NBS units per ASTM D2244.

### 2.03 Components

#### A. Standard Panel Construction

1. Individual panels shall be two (2) feet high or one-and-a-half (1.5) feet high x five (5) inches thick x up to twenty (20) feet in length.

Specifier Note: Select one of the following two options for panel construction. Delete the alternative. Apply to panel structural requirements as well.

2. Panels shall be constructed of [galvanized steel manufactured in accordance with ASTM A924 and ASTM A653] [aluminum type 5052].
3. Panel components shall meet the following structural requirements:
  - a. Perforated face sheet shall be [20 gauge steel] [0.050 mill finished aluminum].
  - b. Solid face sheet shall be [14 gauge steel] [0.050 mill finished aluminum].
  - c. Solid end caps shall be [18 gauge steel] [0.050 mill finished aluminum]

#### B. Acoustic Fill

1. Fiberglass, non-corrosive, resistant to attack by fungus, vermin proof and non-hygroscopic.
2. Free draining, self-supporting and shall retain physical and sound absorptive characteristics after long term exposure to the elements.
3. Class A Fire Rating with a Flame Spread not greater than 25.

#### C. Bearing Blocks shall be:

1. Used to support the bottom panel of the wall system
2. 1 inch thick x 2.25 inch wide x 4 inch long
3. 65 durometer EPDM, neoprene or rubber.

#### D. Steel columns:

Specifier Note: Select one of the following two options for steel column finish.

1. Fabricated structural steel members to [be hot-dipped galvanized after fabrication per ASTM A123] [receive epoxy paint coating].
2. Steel for wide flange shapes and built-up column members shall conform to ASTM A992. All other structural steel base plates and braces shall conform to ASTM A36.
3. Anchor Bolts: ASTM A36 galvanized.

#### E. Post Footing: Refer to Section 03 30 0.

### 2.04 Fabrication

- A.** Perforated and solid sheets shall be roll-formed in lengths up to twenty (20) feet.
- B.** Panel shall be assembled to form a free-draining module.
- C.** Spot welds or mechanical fasteners shall not be acceptable to join the solid inner and perforated outer panel sheets together. Internal reinforcement shall not be acceptable.
- D.** Fabricate panels to be rigid, neat in appearance and free from defects.
- E.** Panel assembly shall such so as to compress and hold the fill materials in place under severe conditions of vibration such as encountered in shipment and installation. Any voids in the panel will be unacceptable.
- F.** Panel manufacturer, where required, shall provide openings for any large known penetrations. Pipe and conduit penetrations shall be located and cut in the field and sealed in accordance with manufacturer's instructions.

### 2.05 Finish

- A.** Panels shall be finished with a factory-applied polyester powder coating system.
- B.** Finish coating shall have a dry film thickness of three (3) mils (+/- 0.5 mils).
- C.** Powder colors shall be selected from manufacturer's list of available colors.

All designs and specifications subject to change without notice. Metric dimensions nominal. Request CSI format specifications on disk or hard copy for Types FS/S, FS/A, FSu/S, SFS/S, SFS/A and C.

# Noishield® Sound Barriers

Lab Rated Acoustic Performance  
and Durable Construction



- Galvanized steel or aluminum
- Free-draining
- Light weight
- Easily installed
- Highly sound absorptive
- Weather-tested finishes
- Freestanding or add-on cladding panels
- Relocatable
- Horizontal or vertical installation







# Noishield® Sound Barrier System

**Effective and Attractive Sound Barrier Systems Using Field Proven & Durable Acoustically Rated Components**

IAC Acoustics Noishield outdoor sound barrier systems protect communities and workers from noisy equipment by blocking line-of-sight sound transmission and absorbing sound energy radiating from the source. Noishield panels are performance rated for sound absorption, sound transmission loss and structural wind-loads, simplifying screen wall designs and allowing for the most cost effective and reliable sound barrier solutions available.

IAC Acoustics Noishield barrier panels combine multiple weather-resistant and aesthetic features in order to provide a highly durable and corrosion resistant all-weather outdoor barrier panel.

Pitched solid upper surfaces shed rain-water. Perforated lower surfaces allow any accumulated moisture to drain freely so the panel can dry quickly.

G-90 Galvanized steel materials of construction include a corrosion resistant zinc coating to protect the underlying steel components. A durable polyester powder coating suitable for exterior installations protects the steel from weathering and ensures an attractive finish in any of IAC Acoustics stock colors, or an industry standard RAL 4-digit color.

Roll-formed panels provide a uniform, flat profile suitable for architectural applications where an attractive appearance is a requirement. Consistent panel heights add to a crisp and neat visual aesthetic.

IAC Acoustics Noishield panels feature a deep cross section that provides greater resistance to wind-loading and a panel that can span supports up to 20 ft apart. IAC Acoustics provides a range of engineering data to assist with wall layout, including load tables for a range of support post spacing, wall heights and a variety of wind speeds.

## Standard Features



Laboratory Rated Acoustic Performance  
STC-30 to STC-33 / NRC 1.00 to 1.05



Excellent weather & corrosion resistance.  
Galvanized steel materials with powder coated finish applied post assembly. Fully non-welded construction to avoid damage to galvanized coating.



Freestanding, able to span supports  
of up to 20 feet depending on local codes  
& wind-speed requirements.



### Noishield Barrier Systems Offer:

- Steel or aluminum materials of construction for a choice of economy or light-weight
- Powder-coated or mill-finish (in-coated) finishes for a range of options
- Multiple panel configurations and a range of sound transmission loss, STC & sound absorption performances to match each project's unique requirements
- "Continuline" specialty details to conceal support posts
- "Slim-Line" face-applied panels to permit utilization of existing support structures and installation from either the front or the rear of the support wall components

### Typical Applications:

- Rooftop or ground mounted mechanical equipment screens
- Chiller, generator & compressor packages
- Transformer yards & utility substations
- Light-rail systems



# Acoustic Performance

Noishield barrier panels are rated with sound transmission loss values fully compatible with typical acoustic screen performance requirements. All Noishield barrier panels incorporate sound absorbing materials to prevent noise reflections that degrade barrier performances. Type C modules are used to clad new or existing non-absorbing barriers while Type FS and SFS are free-standing walls that combine excellent sound transmission loss (used for 125 Hz insertion loss up to 10 dB) with high sound absorption ratings.

\* Freestanding Type FSt is used for applications requiring 125Hz insertion loss between 10 and 14 dB.

Barrier Model	1/3 Octave Band Center Frequency, Hz							
	125	250	500	1k	2k	4k	8k	STC
	Sound Transmission Loss, dB							
FS/S and SFS/S	21	34	40	33	32	26	37	30
FSt/S	24	38	41	33	35	29	34	33
FS/A and SFS/A	21	32	37	30	37	28	30	31
	Sound Absorption Coefficients							NRC
FS/S, FS/A and FSt/S	1.12	1.12	1.10	1.01	0.89	0.76	0.57	1.05
SFS/S and SFS/A	0.49	1.04	1.14	1.05	0.96	0.95	0.87	1.05
C/S and C/A	0.30	1.05	1.07	1.01	0.96	0.88	0.78	1.00
C12/S and C12/A	0.48	1.08	1.10	0.99	0.92	0.83	0.78	1.00
C38/S and C38/A	0.68	1.19	1.10	1.03	0.90	0.81	0.76	1.05

• Sound Transmission Loss: All data in accordance with ASTM E90 and E413

• Sound Absorption Coefficients: All data in accordance with ISO Standard 354, ASTM C423 and E413 with 120 ft<sup>2</sup> (11.15 m<sup>2</sup>) test sample in 10,000 ft<sup>3</sup> (262 m<sup>3</sup>) reverberation room. Type A mounting. Coefficients greater than 1.0 result from edge diffraction effects. Do not use sound absorption values greater than 0.95.

## Durable Noishield Barrier Finishes

Noishield Barriers are finished with a tough, thermosetting, polyester powder coating which is not damaged by the harsh cleaning chemicals used to remove spray paint graffiti. A wide variety of standard colors allow complementary decorative schemes and attractive designs to reduce apparent wall height as perceived by the community.

- Tested for accelerated weathering per ASTM G 23 for 2,400 hours with chalking not less than No. 8 rating (ASTM D 659) and color changes less than 5 NBS units (ASTM D 2244)
- Salt spray tested for checking, blistering, loss or adhesion, or evidence of corrosion per ASTM B 117 for more than 4,000 hours without coating failure

## Weather Shedding Construction

Noishield Sound Barrier Modules are constructed with solid top surfaces to minimize water infusion and perforated bottom surfaces to allow any entrapped water to escape. Infill is non-hygroscopic — water does not “wick” into the modules. Hence, traditional polymer fill protection is neither required or desirable due to adverse effects on sound absorbing characteristics.



## Ground Mount / Roof Mount / Structure Mount

Noishield Sound Barriers are engineered from the foundation up for structural and acoustical integrity and economic installation. Low weight modules stack between posts to achieve required wall heights. Noishield Barriers can be installed with horizontal or vertical reveals to satisfy aesthetic and architectural considerations.

## Freestanding Barriers

Noishield Types: FS and SFS Barriers — sound absorptive on one and two sides respectively — optimize sound transmission loss and sound absorption properties in a durable and attractive wall system in harmony with the community.




- Excellent low frequency absorption for heavy equipment
- Laboratory-rated sound absorption on one or both sides
- Low weight, rugged construction — ideal for wall or roof mounting
- 5" thick (127 mm) modular metal module system in steel or aluminum
- Abuse resistant dual-coated, galvanized steel or aluminum construction
- Withstands wind velocities of 110 mph (177 km/hr) — designs for specific wind loads are available
- Readily relocated in the event of expansion or other projects

Configuration		Type FS	Type SFS
		 Thickness: 5" / 127 mm	 Thickness: 5" / 127 mm
Weight lb / ft <sup>2</sup> (kg / m <sup>2</sup> )	Steel	FS/S – 6.5 (31.7)	SFS/S – 9.9 (48.3)
		FSt/S* – 8.6 (42.0)	–
	Aluminum	FS/A – 4.5 (22.0)	SFS/A – 5.2 (25.4)
Application		Freestanding alongside noisy equipment	Freestanding between multiple noise sources

## Sound Absorptive Treatment for New Construction & Retrofit Applications

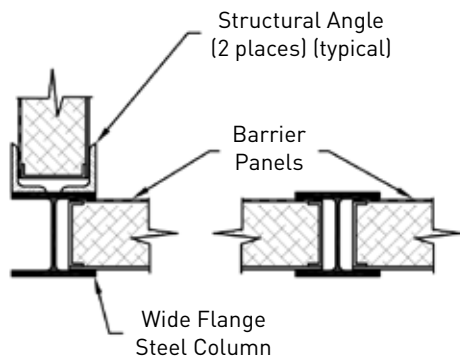
Noishield Type C Cladding Modules — sound absorptive to control reflections from acoustically hard barriers

- Apply to new or existing wood, concrete or steel barriers to reduce reflected noise levels in the community
- Retrofit existing barriers to eliminate or mitigate noise complaints
- Low weight, rugged construction — ideal for retrofit applications
- Laboratory-rated sound absorption coefficients
- 2-1/2" (64 mm) thick metal module system
- Abuse resistant galvanized steel or aluminum construction
- Individual modules readily manufactured and replaced if damaged

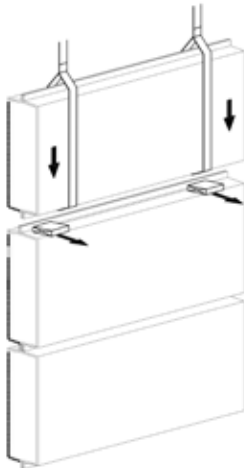
Configuration		Type C	Type C12	Type C38
		 Thickness 2.5" / 64 mm	 Thickness 3" / 76 mm	 Thickness 4" / 102 mm
Weight lb / ft <sup>2</sup> (kg / m <sup>2</sup> )	Steel	C/S – 3.25 (15.9)	C12/S – 3.55 (17.3)	C38/S – 4.05 (19.8)
	Aluminum	C/A – 1.1 (5.4)	C12/A – 1.4 (6.8)	C38/A – 1.9 (9.3)
Application		Apply to new or retrofit existing metal, wood, brick, concrete, stone or other noise-reflecting walls. Select Types C12 & C38 for enhanced 125 Hz sound absorption.		



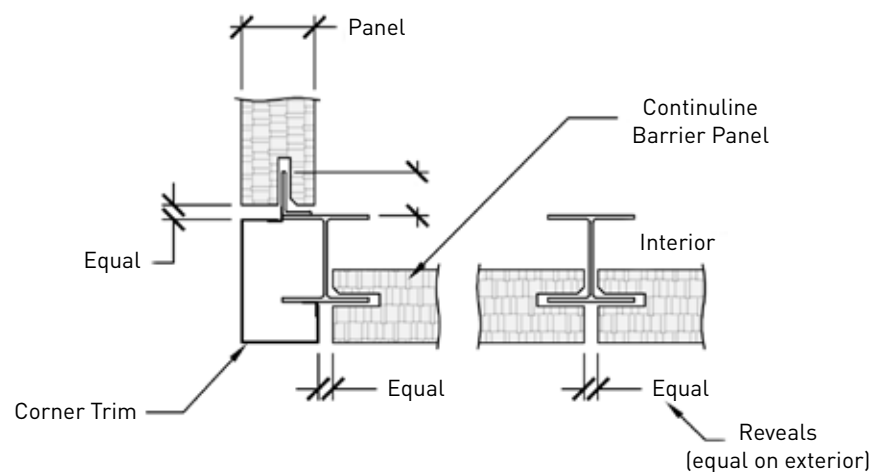
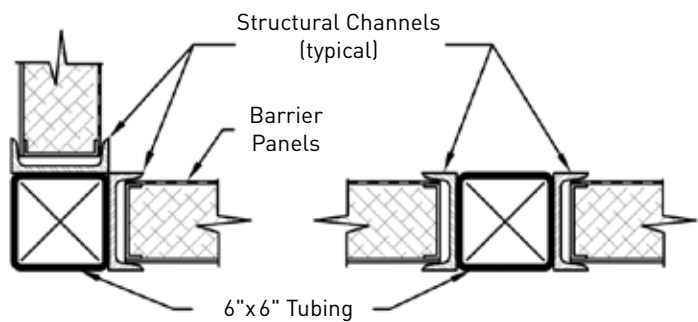
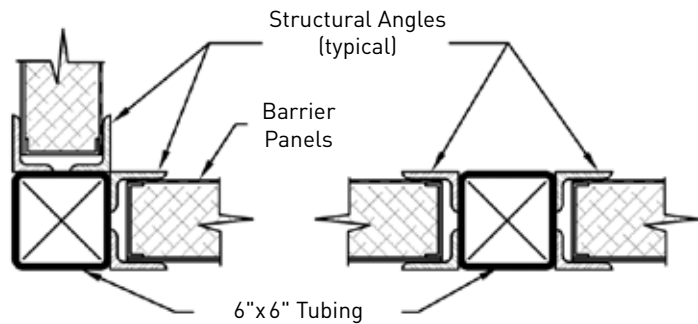
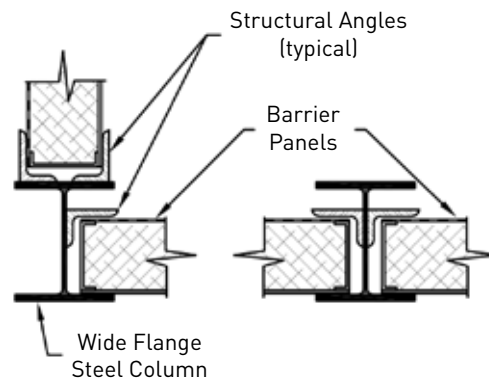
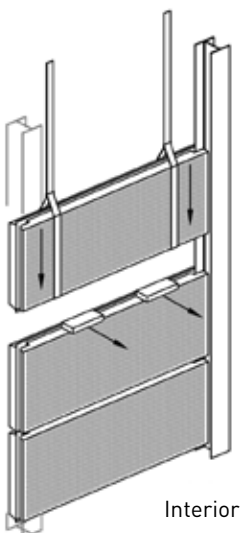
# Barrier Supports & Installation



## Standard Panel Installation

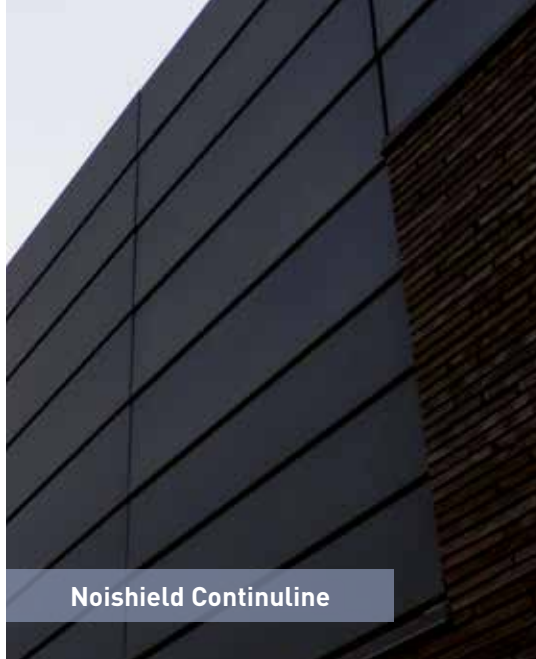


## Continuline Panel Installation

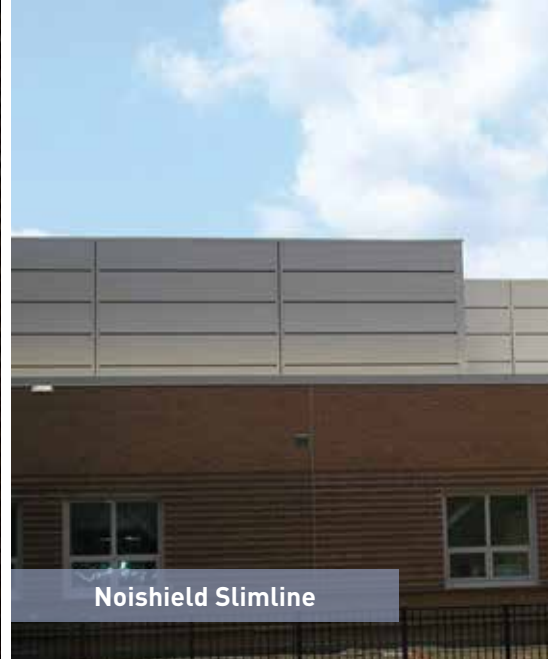




Noishield Continuline



Noishield Continuline



Noishield Slimline

## Noishield Continuline Detail for Concealed Columns

IAC's Continuline is more aesthetically pleasing than a traditional barrier wall — it allows architects and customers to conceal their structural members. The Continuline panels are the same construction as the standard FS panels. The key difference is the endcap — the endcap wraps the column; leaving an architecturally pleasing reveal that mimics the horizontal reveal already prevalent in the system. Continuline's primary applications include rooftop systems, train/rail and ground mounted.

- Superior aesthetic
- Special slotted end-caps
- Solid front face of panel conceals the column
- Acoustic & architectural screen in a single assembly & installation

## Noishield Slimline Detail for Surface Mounting

- Face or rear applied
- Reduced thickness of 2.5"
- Secured with Z & Hat channel
- Hat channel edge trim between adjacent panel stacks
- Z channel edge trim at end of panel stack

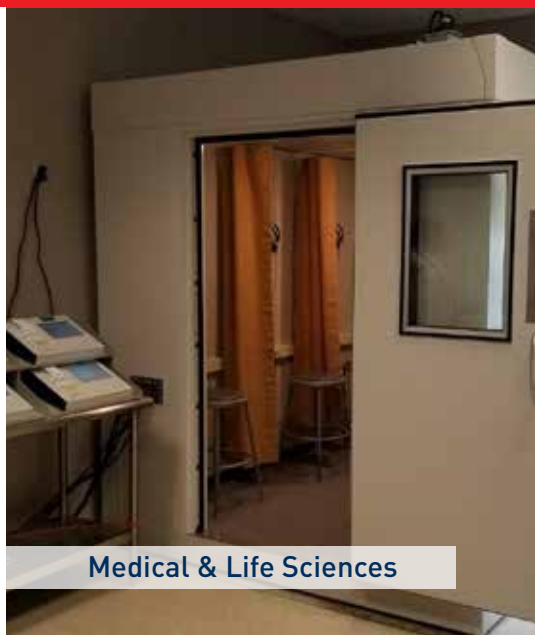


# Making the World a Quieter Place

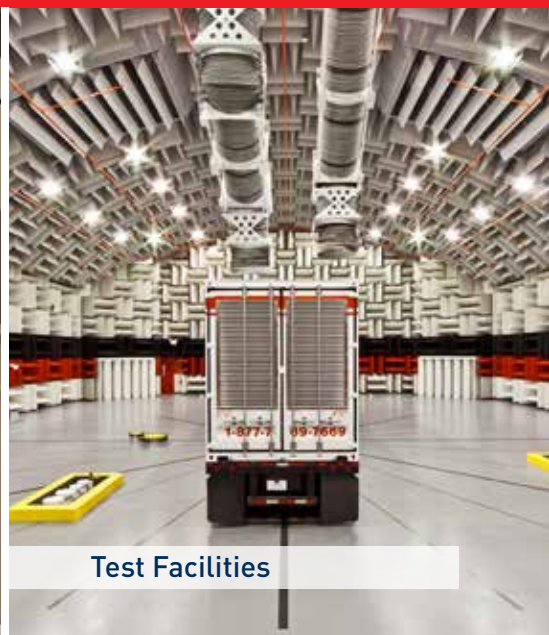
Markets Served by IAC Acoustics



Architectural



Medical & Life Sciences



Test Facilities



Industrial



Dyno Test Rooms



HVAC



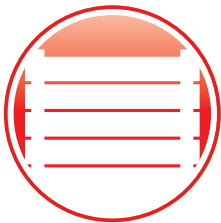
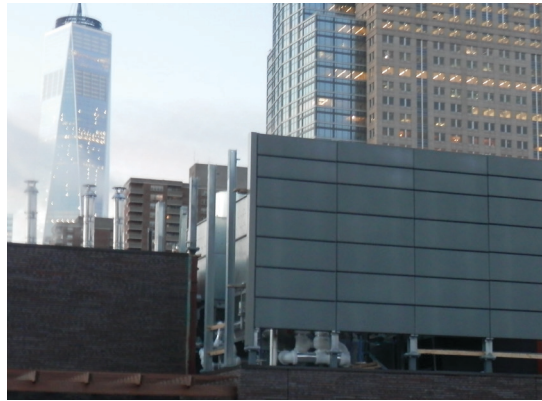
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40 Shuman Boulevard • Suite 201  
Naperville, Illinois 60563  
630.270.1790

# Noishield® Continuline Sound Barriers

Concealed Structural Elements for a More Aesthetically Pleasing Sound Barrier System



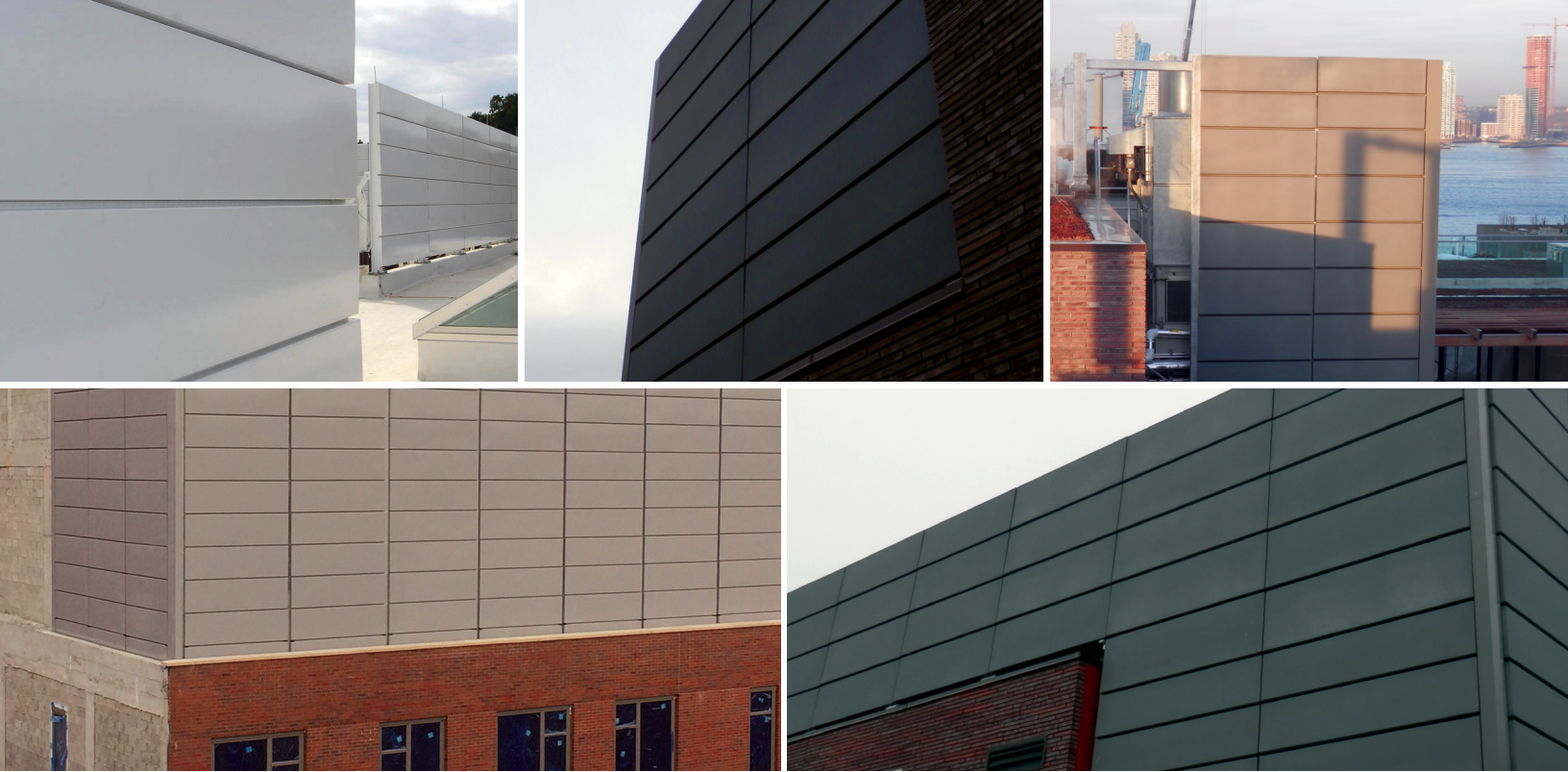
IAC's Noishield Continuline is more **aesthetically pleasing** than a traditional barrier wall — it allows architects and customers to conceal their structural members. The Continuline panels are the same construction as the standard IAC FS panels.

The key difference is the endcap — the endcap wraps the column; leaving an **architecturally pleasing** reveal that mimics the horizontal reveal already prevalent in the system.

## Continuline Features:

- Superior aesthetic
- Special slotted end-caps
- Solid front face of panel conceals the column
- Acoustic & architectural screen in a single assembly & installation





### Noishield Continuline Systems Offer:

- Steel or aluminum materials of construction for a choice of economy or light-weight
- Powder-coated or mill-finish (in-coated) finishes for a range of options
- Multiple panel configurations and a range of sound transmission loss, STC & sound absorption performances to match each project's unique requirements

### Typical Applications:

- Rooftop systems
- Train/rail systems
- Ground mounted
- Chiller, generator & compressor packages



Laboratory Rated Acoustic Performance  
STC-30 to STC-33 / NRC 1.00 to 1.05



Excellent weather & corrosion resistance.  
Galvanized steel materials with powder coated finish applied post assembly. Fully non-welded construction to avoid damage to galvanized coating.



Free-standing, able to span supports  
of up to 20 feet depending on local codes  
& wind-speed requirements.

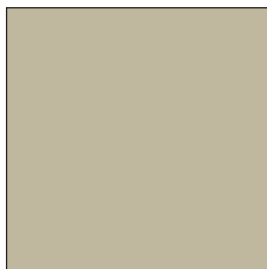


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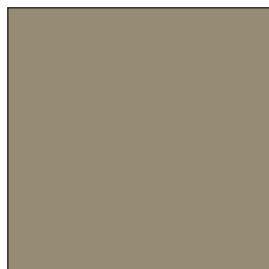


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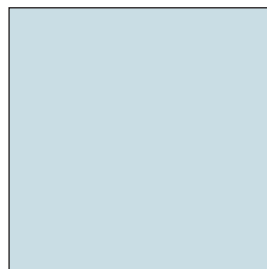
# Standard Colors



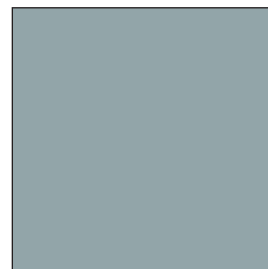
Khaki Shade Textured



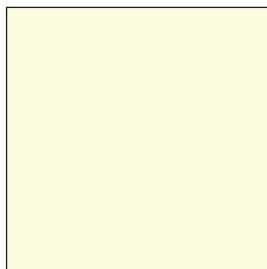
Kinetic Khaki Textured



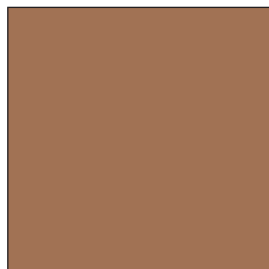
Polar Blue Textured



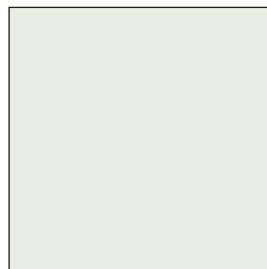
Colony Blue Textured



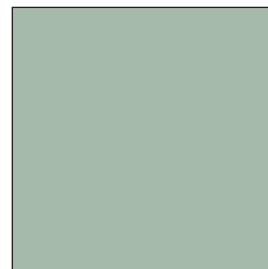
Limoge Cream Textured



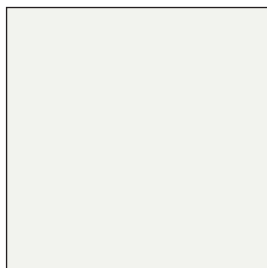
Cinnamon Stick Textured



Celedon Textured



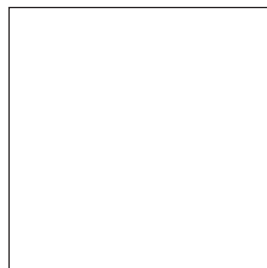
Jade Market Textured



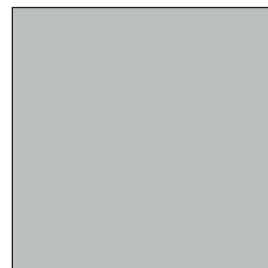
First Star Textured



Silverplate Textured



Pure White Textured



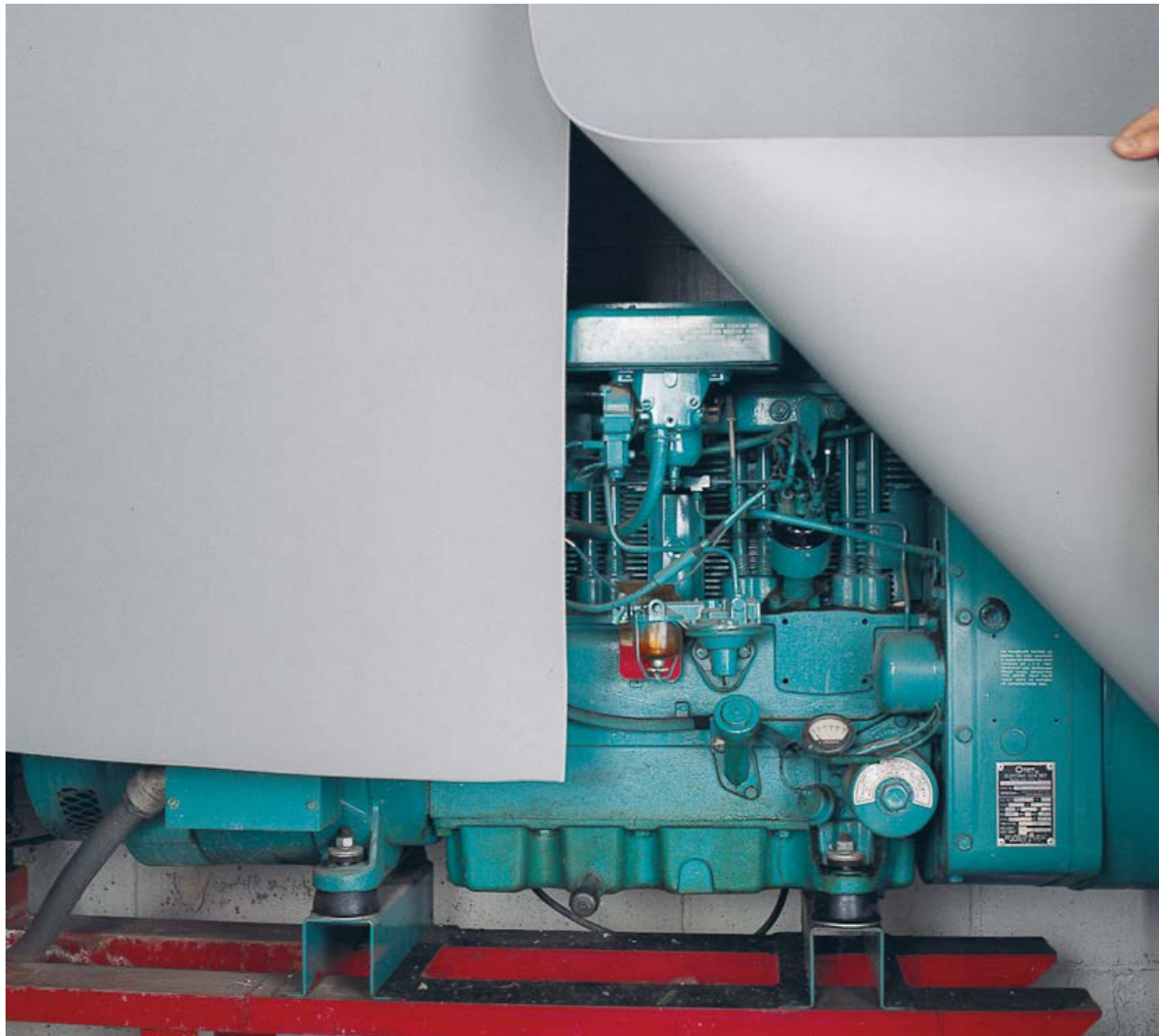
Gray Primer

Colors provided by

**SHERWIN-WILLIAMS®**

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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. When properly installed, PROSPEC Barrier 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.

### >> | Advantages

- 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

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

### Materials

- Reinforced barrier has an interior mesh-like material
- Clear, see-through barrier curtain material blocks sound without blocking vision
- Resistant to fading and yellowing

### Applications

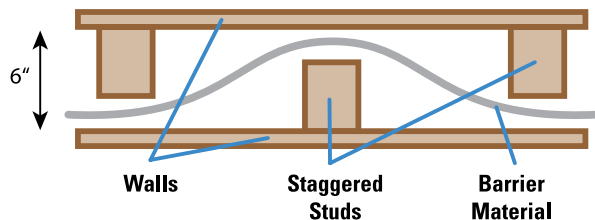
- Virtually any place where you do not want noise, sound and/or conversations to travel into adjacent spaces

### Installation: Reinforced and Clear Barriers

- Attach to walls
- Unrolled on top of suspended ceilings
- Weave between studs of a staggered-stud wall construction
- Can be stapled, nailed, screwed, glued or grommeted
- Hang like curtains from ceilings or support frames
- Use screws with washers to attach the top edge or clamp into place with a strip of wood or metal
- Overlap seams between sheets of barrier
- For indoor use only

### Installation: Non-reinforced

- Wrap or lay barrier over noisy objects
- Secure with nails or screws with washers or staples
- Attached to an existing wall, apply furring strips intermittently along entire wall surface and attach the barrier to the furring strips
- In new construction, thread barrier through staggered studs as shown in the sketch below
- Glues are not recommended for long-term support



*Staggered-stud wall construction.*



### 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 non-reinforced 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°F to 180°F (-29°C to 82°C)	-40°F to 200°F (-40°C to 93°C)	0°F to 150°F (-17°C to 66°C)
Thickness	1/8" (3 mm)	1/8" (3 mm)	1/6" (4 mm)
Size	54" x 20', 30' or 60' (1372 mm x 6.10 m or 18.29 m)	54" x 20' or 60' (1371 mm x 6.10 m or 18.29 m)	48" x 60' (1219 mm x 18.29 m)

\*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

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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Minneapolis, MN 55430  
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## SONEX® Curtain Barrier Backed (BB)

Product Information



Durable, SONEX® Curtain BB is a composite that features sound-absorptive WILLTEC™ foam quilted with a vinyl facing on one side and bonded to a reinforced noise barrier material. This product provides 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.

### >> Advantages

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

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1-800-662-0032  
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# SONEX® Curtain Barrier Backed (BB)

## Product Information



### Materials

- Standard facing material is vinyl-coated fabric in grey, white, tan or black
- Optional facing hi-temp silicone-coated fabric, decorative cloth fabric or non-woven porous scrim fabric
- Curtain hardware, hanging mechanisms and configuration options include clear vinyl windows, grommets, hook and loop fasteners, doors and sliding tracks are available

### Size

- 25' (7.62 m) rolls with finished or unfinished edges
- Can be custom manufactured or integrated as a complete acoustical enclosure, giving access to machines or work cells

### 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 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: 1 lb./sq. ft.
Flammability	Class A 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 ATSM E413-73						
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC
BB-1	15	18	22	30	42	48	27

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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## SONEX® Curtain Barrier Septum (BS)

Product Information



SONEX® Curtain BS combines sound absorption and noise barrier properties in 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 contains and absorbs noise. It is 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.

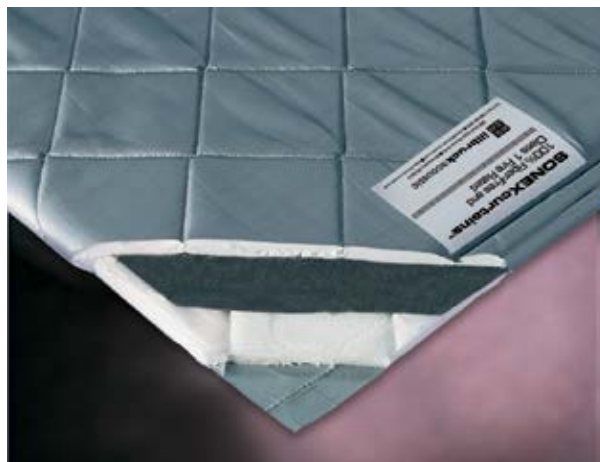
### >> | Advantages

- Sound-absorbing layer on both sides
- Prevents sound transmission
- Rugged and durable
- Customizable
- Easy to install

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

# SONEX® Curtain Barrier Septum (BS)

## Product Information



### Materials

- Standard facing material is a vinyl-coated fabric in grey, white, tan or black
- Curtain hardware, hanging mechanisms and configuration options include clear vinyl windows, grommets, hook and loop fasteners, doors and sliding tracks

### Sizes

- 25' (7.62 m) rolls with finished or unfinished edges

### Applications

- Acoustical divider between two noise sources or to 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 preexisting enclosures to further reduce noise levels
- Suitable for some outdoor applications

### 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 and 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./cu. ft. Barrier: 1 lb./sq. ft.
Flammability	Class A per ASTM E84
Flame Spread	21
Smoke Density	171

### Sound Absorption

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 ATSM E413-73							
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC
BS-1	15	19	21	24	24	48	25

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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 +1 612-355-4200  
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[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



## SONEX® Curtain Quilted Absorber (QA)

### Product Information



#### 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.

#### Physical Data

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

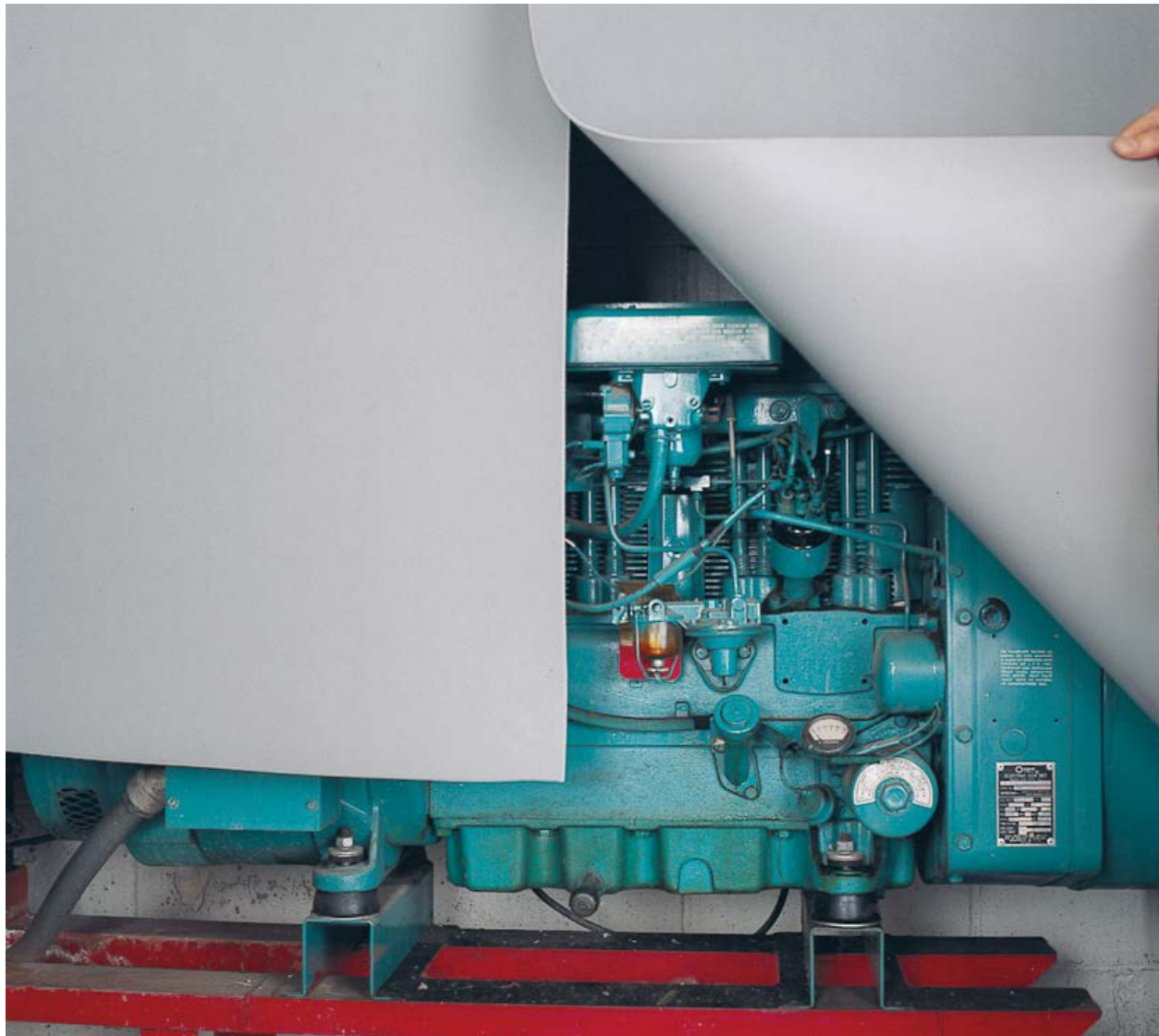
	Coefficients per ASTM C423-90a						
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
QA-1	0.09	0.28	0.74	0.58	0.38	0.25	0.50
QA-2	0.14	0.55	0.96	0.73	0.36	0.25	0.65



#### Advantages

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

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 Minneapolis, MN 55430  
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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. When properly installed, PROSPEC Barrier 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.

### >> Advantages

- 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

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### Materials

- Reinforced barrier has an interior mesh-like material
- Clear, see-through barrier curtain material blocks sound without blocking vision
- Resistant to fading and yellowing

### Applications

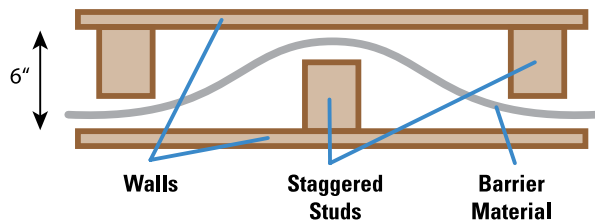
- Virtually any place where you do not want noise, sound and/or conversations to travel into adjacent spaces

### Installation: Reinforced and Clear Barriers

- Attach to walls
- Unrolled on top of suspended ceilings
- Weave between studs of a staggered-stud wall construction
- Can be stapled, nailed, screwed, glued or grommeted
- Hang like curtains from ceilings or support frames
- Use screws with washers to attach the top edge or clamp into place with a strip of wood or metal
- Overlap seams between sheets of barrier
- For indoor use only

### Installation: Non-reinforced

- Wrap or lay barrier over noisy objects
- Secure with nails or screws with washers or staples
- Attached to an existing wall, apply furring strips intermittently along entire wall surface and attach the barrier to the furring strips
- In new construction, thread barrier through staggered studs as shown in the sketch below
- Glues are not recommended for long-term support



*Staggered-stud wall construction.*



### 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 non-reinforced 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°F to 180°F (-29°C to 82°C)	-40°F to 200°F (-40°C to 93°C)	0°F to 150°F (-17°C to 66°C)
Thickness	1/8" (3 mm)	1/8" (3 mm)	1/6" (4 mm)
Size	54" x 20', 30' or 60' (1372 mm x 6.10 m or 18.29 m)	54" x 20' or 60' (1371 mm x 6.10 m or 18.29 m)	48" x 60' (1219 mm x 18.29 m)

\*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

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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## PROSPEC® Composite

### Product Information



#### Materials

- WILLTEC™ acoustical foam with the noise containment capabilities of vinyl barrier.
- 1" (25 mm)-thick layer of water-based acoustic-coated WILLTEC foam to absorb noise.
- 1/8" (3 mm)-thick noise barrier to contain noise and reduce sound transmission.
- 1/4" (6 mm)-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.

#### Applications

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

PROSPEC® Composite combines the benefits of WILLTEC™ acoustical foam and the noise containment capabilities of vinyl barrier. 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 water-based acoustic coating for easy clean-up.

#### Physical Data—WILLTEC

Material	1" (25 mm) open-cell WILLTEC bonded to 1/8" (3 mm) loaded vinyl barrier with 1/8" (3 mm) WILLTEC decoupler layer
Surface Pattern	Sculpted, water based acoustic coated surface absorbs sound waves
Density	WILLTEC foam 0.7 pounds per cubic foot
Tensile Strength	8 PSI
Flame Spread and Smoke Density	Passes Class A per ASTM E84

#### Sound Absorption

Coefficients per ASTM C423-90a							Mounting Type
125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
0.13	0.60	0.81	0.97	1.00	0.90	0.85	B

#### Transmission Loss

ASTM E90-90						
125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC*
17	22	20	32	31	43	28

\*Estimated



## >> Advantages

- Smaller convoluted surface pattern
- Excellent acoustic absorption across all frequencies
- Lightweight panels are easily cut to fit on-site
- Ideal for machine enclosures and other applications requiring thinner panels

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## PIPE LAGGING | SILENCER SERIES



## TECHLITE® Pipe Lagging

TECHLITE® Pipe Lagging is ideal for many industrial uses. Use it to reduce noise created by loud vibrating pipes or to stop sound transmission through pneumatic conveyer tubing. TECHLITE® Pipe Lagging combines the benefits of both mass loaded vinyl barrier and TECHLITE® foam into one durable product. A ¼" thick layer of TECHLITE® foam is used as a decoupler layer to the 1/8" thick non-reinforced vinyl barrier outer. The foam decoupler isolates the noise source from the barrier layer to improve the transmission loss performance.

## BENEFITS

Ideal for controlling pipe noise  
Large roll means less seams  
Easy installation  
Integrated decoupler layer  
Operates up to 180° F

## USES AND APPLICATIONS

Pneumatic conveyer tubes  
Food process piping  
Industrial enclosures  
OSHA Compliance

## PHYSICAL PROPERTIES

Material	TechLite Flexible Open-Cell Melamine Foam	Mass Loaded Vinyl
Service Temp	-40°F to 350°F	-20°F to 180°F
Density	Light Grey 0.56 ± 0.09 lb/ft <sup>3</sup> White 0.47 ± 0.13 lb/ft <sup>3</sup>	1 lb/ft <sup>2</sup>
Fire Rating	Class A per ASTM E 84	MVSS302 Self Extinguishing UL 94-HF-1 Pass
Finish	Light Grey	Black

## SIZES/COLORS

48" x 48" x 3/8" Sheet  
48" x 96" x 3/8" Sheet  
Light Grey Foam  
Black Barrier

PIPE LAGGING | SILENCER SERIES

Transmission Loss [dB]								
Finish	Thickness [in]	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	STC
Light Grey/ Black	0.375	14	17	19	23	25	31	24

Transmission loss results tested in accordance to ASTM E 90-09a





# S-2000

## ACOUSTICAL WALL & CEILING PANELS

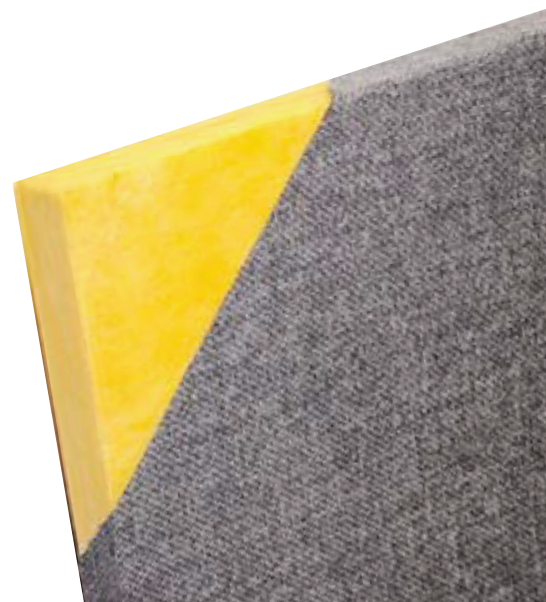
Sound Quality® Acoustical Wall and Ceiling Panels by Sound Seal® are designed to solve your acoustical needs while enhancing the aesthetic look of your space. With a variety of options to choose from including sizes, shapes, fabrics and colors it is easy to create the perfect solution for your reverberation sound problems.

The S-2000 Standard Wall Panel provides the ultimate in acoustical performance with excellent NRC ratings as high as 1.15. They are available in four standard thicknesses: 1/2", 1", 1-1/2" and 2" with custom thickness available up to 4". The S-2000 Panels are constructed with a 6-7# PCF rigid fiberglass absorber core. The edges are available in natural or chemically hardened and are available in 4 edge profiles. S-2000 panels are available in standard or custom-sizes (up to a maximum of 5' X10') with custom, designer or C.O.M fabric available.

### APPLICATIONS:

- High-quality, economical, multi-purpose panels
- Excellent acoustical performance
- Class A fire rated
- Standard, designer or C.O.M fabric
- Various mounting options
- Custom sizes and shapes

- Schools / Universities
- Auditoriums
- Houses of worship
- Office spaces
- Theaters / Studios
- Multi-Purpose rooms
- Conference Rooms





# S-2000

## ACOUSTICAL WALL & CEILING PANELS

SPEC DATA SHEET **SQ-101**



### FINISHES

Guilford of Maine FR701 Style 2100 is the industry standard. Hundreds of approved decorative fabrics are also available from numerous manufacturers including, but not limited to: Guilford of Maine, Maharam, Design Tex and Knoll. Customers may also specify their own fabric, provided the material meets manufacturing requirements.

### ACOUSTICAL

NRC Rating

1/2" Thick	_____	.50 – .60
1" Thick	_____	.80 – .90
1-1/2" Thick	_____	.90 – 1.00
2" Thick	_____	1.05 – 1.15

### SIZING

All panels are custom made with standard sizes up to 4' x 10' and custom sizes up to 5' x 10', with thickness ranging from 1/2" – 4' thick

### SPECIFICATIONS

Specifications can be downloaded from our website  
**www.soundseal.com** or call us at **1.800.569.1294**

### MOUNTING OPTIONS



2-Part  
Mechanical Clips

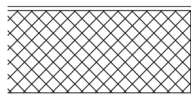


Rotofast Anchors

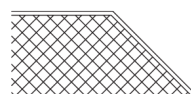


Impaling Clip

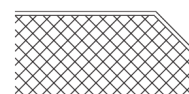
### EDGE DETAILS



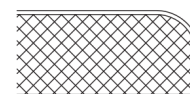
Square



Miter



Bevel



Radius



50 H.P. Almgren Drive  
Agawam, MA 01001

[www.soundseal.com](http://www.soundseal.com)

Email: [sales@soundseal.com](mailto:sales@soundseal.com)

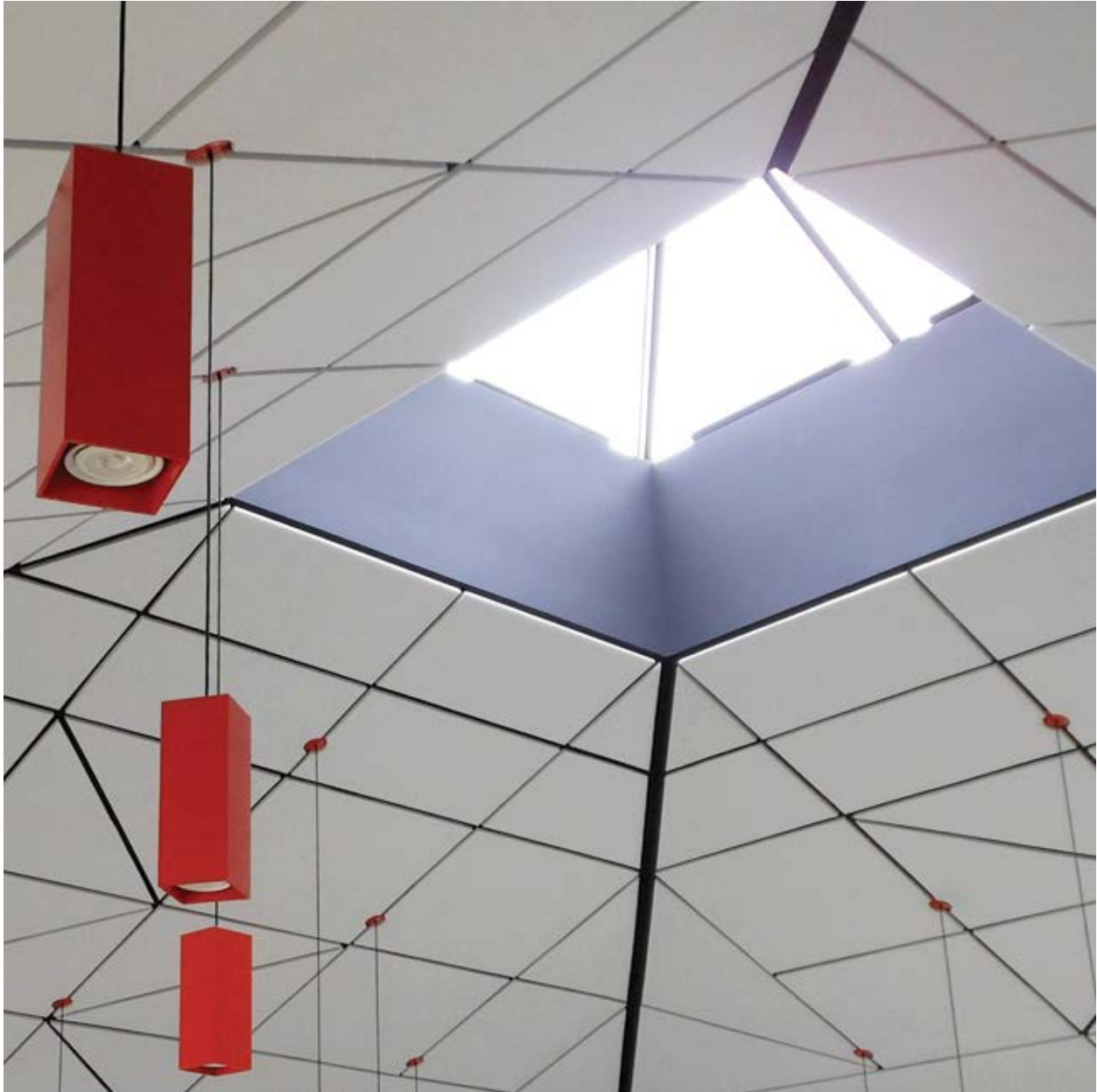
Tel: 800.569.1294

Fax: 413.789.4444



## WILLTEC™ Flat Sheets

Product Information



Rethink direct-apply, glue-up wall and ceiling panel applications. pinta acoustic's lightweight, smooth-surface WILLTEC™ Flat Sheets are readily available in a variety of shapes, sizes and thicknesses with square- or bevel-edge options. WILLTEC Flat Sheet panels provide superior sound absorption and limitless design possibilities at economical costs.

### >> Advantages

- Quick, efficient and low-cost applications to plan and work
- 30- to 50-percent panel coverage is typically all that's necessary
- WILLTEC panels can easily be cut to fit on-site
- pinta acouSTIC™ adhesive adheres to most substrates
- Standard, premium and custom water-based coatings

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### WILLTEC Flat Sheet Material

- Made from smooth, natural light grey or white open-cell, expanded melamine foam
- Square-cut 90- or 15-, 22.5-, 30- and 45-degree bevel edge options
- Standard water-based acoustic coating in white, light, medium or dark greys, black and other premium and custom color options

### Sizes

- Panel Sizes: various square and rectangular shapes up to 48 x 96 inches (1219 to 2438 mm) as well as circular, triangular, trapezoidal and custom
- Various Thicknesses: 1 to 4 inches (25 to 102 mm) and custom

### Applications

- Smooth, clean and level, dust- and oil-free natural or painted drywall, concrete, plywood or metal substrates
- Best suited for small or large, open flat, sloped or curved ceilings; custom-size bay sections, square or rectilinear waffle slab fit-outs
- Open-plan office, educational, dining and retail environments, etc., anywhere acoustic comfort is desired

### Assembly

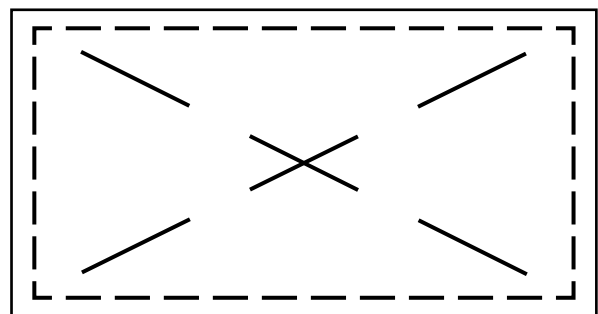
- Use clean, thin white cotton gloves to handle panels
- Cut acouSTIC adhesive cartridge tip to produce 1/4 inch (6.4 mm)-diameter bead
- Run a continuous bead of adhesive around the panel's perimeter, approximately 1.5 inch (38 mm) from edges, then apply intermittent beads from opposite corners through the center of the panel creating an X
- Press panel firmly into place and smooth evenly across it to ensure a strong lasting bond; adhesive tack should be immediate

### Physical Data—WILLTEC foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (0.014 to 0.020), ASTM D3574-77
Long-Term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 Passes CAN ULCS-102
Fungus Resistance	Rating 0 per ASTM G21
Microbial Growth	Passes UL 181, section 11
Finishes	Natural (white and light grey) or water-based acoustic coated (standard, premium and custom colors)

### Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
Natural (white and light grey)	1"	0.11	0.15	0.50	0.84	0.92	0.93	0.60	A
	2"	0.15	0.52	0.98	1.13	1.00	1.11	0.90	A
	3"	0.31	0.89	1.20	1.17	1.03	1.01	1.05	A
Water-based acoustic coated (standard, premium and custom colors)	1"	0.08	0.16	0.53	0.86	0.92	0.98	0.60	A
	2"	0.21	0.50	1.03	1.14	1.04	1.05	0.95	A
	3"	0.32	0.93	1.12	1.15	1.03	1.03	1.10	A



## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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## SONEX® Valueline Panels

Product Information



SONEX® Valueline Panels have an omni-directional, softly-sculpted surface pattern that produces subtle, ever-changing shadow and light play effects. The panels direct apply to walls and ceilings and provide superior sound absorption at very affordable prices. Made from lightweight, non-fibrous, open-cell expanded melamine WILLTEC™ foam, SONEX Valueline Panels are readily available in a variety of standard and custom panel sizes, thicknesses and water-base finishes. pinta acouSTIC™ PA-02 water-base and PA-04 neutral-cure silicone adhesives adhere panels to most substrates.



### Advantages

- Excellent acoustic absorption across all sound frequencies; lightweight, non-fibrous WILLTEC panels quickly adhere to most substrates and are easily cut to fit onsite
- Naturally resistant to mold, fungus and bacteria growth, panels can withstand high heat and humidity of indoor swimming pools

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Minneapolis, MN 55430  
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### Material

- Made from open-cell, natural light grey or white WILLTEC™ expanded melamine foam
- Standard water-based acoustic coating color options in arctic white, ivory, beige, light blue, light, medium or dark grey, black and other premium or custom options are available; panels coated on one side and all edges standard
- Non-repeating, omni-directional pattern, square-edge panels standard; optional 15, 22.5, 30 and 45-degree bevel edges also available

### Size

- Typical panel size: 24" x 48" (610 x 1219 mm) and custom sizes and shapes up to 48" x 96" (1219 x 2438 mm)
- Typical thickness options: 1-1/2", 1-7/8" or 2-1/2" (38, 48 or 64 mm) and custom

### Applications

- Modern office and conference spaces
- Retail and boutique stores
- Educational classrooms and libraries
- Art centers, museums and display showrooms
- Restaurants and cafeterias
- Manufacturing, production and assembly areas
- Indoor swimming pools, fitness centers and spas

### Direct-Apply, Glue-up Installation to Smooth Substrates

- Use clean, thin, white cotton gloves to handle panels
- Cut acouSTIC™ adhesive cartridge tip to produce 1/4 inch (6.4 mm)-diameter bead
- Run a continuous bead of adhesive around the panel's perimeter, approximately 1.5 inch (38 mm) from edges, then apply intermittent beads from opposite corners through the center of the panel creating an X
- Press panel firmly into place and smooth evenly across it to ensure a strong, lasting bond; adhesive tack should be immediate
- Please consult pinta acoustic with any questions prior to your specific project application start



### 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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white and light grey), water-based acoustic coating (standard, premium and custom colors)
Light Reflectance Value	0.87, arctic white

### Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	Type
Natural (white and light grey)	1-1/2" (38 mm)	0.08	0.29	0.73	0.94	0.97	0.89	0.75	B
	1-7/8" (48 mm)	0.15	0.35	0.82	1.01	1.02	1.05	0.80	A
	2-1/2" (65 mm)	0.19	0.62	1.15	1.21	1.14	1.20	1.05	B
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
colortec (charcoal)	2" (51 mm)	0.05	0.31	0.81	0.96	0.97	0.97	0.75	A

## >> Other Products

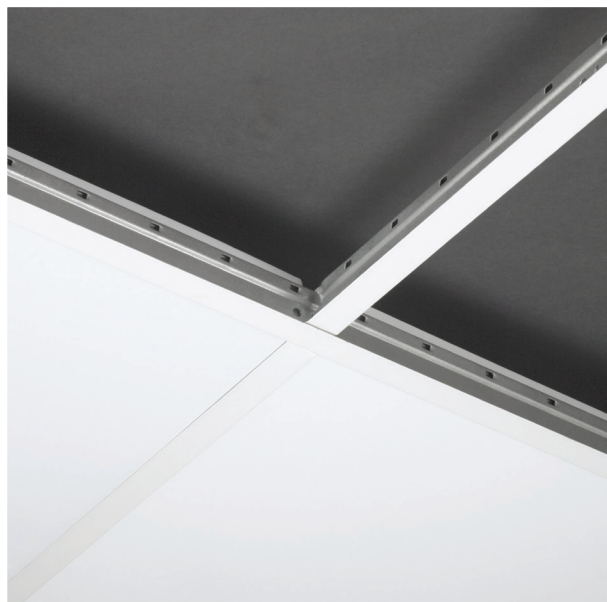
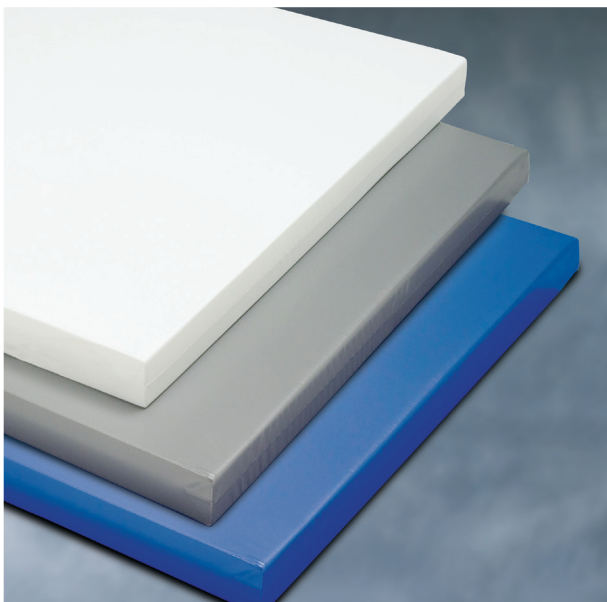
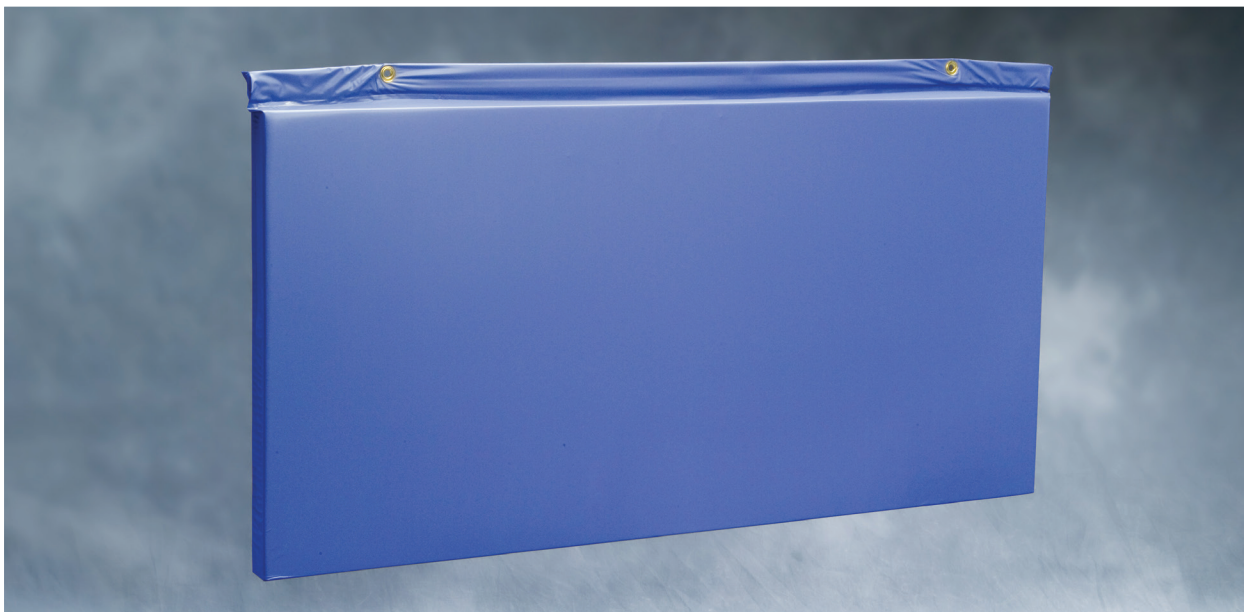
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1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com



## SONEX® Clean Baffles, Panels and Ceiling Tiles

Product Information



SONEX® Clean products are designed for environments that require excellent noise control across all sound frequencies using washable acoustic materials. Suitable for direct-apply, glue-up, suspended ceiling panel and baffle applications, the products are fully encapsulated in FR taffeta vinyl for efficient cleaning and long-lasting durability. SONEX Clean products meet USDA/FDA requirements.



### Advantages

- Superior sound absorption minimizes reverberation and echo
- FR Taffeta vinyl is available in 17 standard colors
- Naturally resistant to mold, fungus and bacteria growth, Sonex clean products can withstand high heat and humidity

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)

## SONEX® Clean Baffles, Panels and Ceiling Tiles

### Product Information

#### Material

- Made from lightweight, non-fibrous WILLTEC® expanded melamine foam core
- Fully encapsulated in FR taffeta vinyl
- Reseal tape is included

#### Sizes

- Direct-apply, glue-up panels: 24" x 48" x 2" (610 x 1219 x 51 mm)
- Suspended ceiling panels: 23-3/4" x 23-3/4" x 2" or 23-3/4" x 47-3/4" x 2" (603 x 603 x 51 or 603 x 1213 x 51 mm)
- Suspended baffles: 26" x 48" x 2" (660 x 1219 x 51 mm) includes 2" (51 mm) top tab height

#### Application

- Clean rooms, scientific and medical research labs
- Aerospace and optics manufacturing facilities
- Bottling and food processing plants
- Commercial kitchens
- Indoor swimming pools

#### Installation

##### Direct-Apply, Glue-Up Panels

- Use pinta's PA-02 or PA-04 acouSTIC adhesive, mock-up to test for best adhesion recommended
- SONEX Clean resealing tape available for cut-to-fit panel conditions onsite

##### Suspended Ceiling Panels

- Fits within most standard 15/16" (24 mm) ceiling grid system

##### Suspended Baffles

- Produced with integral grommets along top tabs to easily loop suspension wire through

#### 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 (150° C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21



#### Sound Absorption—Ceiling Tiles

Thickness	Test ASTM C423-07; Mounting Type E						
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
2" (51 mm)	0.57	0.67	0.91	0.90	0.43	0.19	0.75

#### Sound Absorption—Wall Panels

Thickness	Test ASTM C423-07; Mounting Type A						
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
2" (51 mm)	0.18	0.75	1.21	0.82	0.40	0.25	0.80

#### Sound Absorption—Baffles

Thickness		Sabins per Baffle per ASTM C423-07; Hanging Baffle						
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Average
2" (51 mm)	1.88	5.23	10.33	11.84	5.33	2.99	8.20	

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

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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## SONEX® Pyramid Panels

### Product Information



SONEX® Pyramid Panels provide optimal acoustic control across all sound frequencies with noise reduction coefficient (NRC) ratings ranging from 0.75 to 1.05. Extended pyramidal shapes significantly increase each panel's surface area, further enhancing sound absorption. SONEX Pyramid Panels are made from pinta acoustic's WILLTEC™ foam. The panels are typically used for direct-apply, glue-up wall or ceiling panel applications. SONEX Pyramid is also suitable for use as a decorative lay-in panel for suspended grid applications.

#### >> Advantages

- Light-weight, fiber-free, open-cell WILLTEC expanded melamine foam panels quickly adhere to most substrates using pinta acoustic's acouSTIC™ adhesives
- Primarily produced as square 24" x 24" panel sizes
- Standard, premium and custom color water-based acoustic coating options

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 (612) 355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

## SONEX® Pyramid Panels

### Product Information

#### Material

- Made from smooth, open-cell, natural light-grey or white WILLTEC™ expanded melamine foam
- Standard water-based acoustic coating options in white, light, medium or dark greys, black and other premium or custom color options

#### Size

- Standard panel size: square 24" x 24" (610 x 610 mm)
- Standard pyramid thickness 2", 3", 4" (51, 76, 102 mm) as well as other custom 6", 8" and 12" (152, 203 and 305 mm)

#### Applications

- Direct apply glue-up wall or ceiling panel installations
- Mixed suspended lay-in ceiling panel applications using either 9/16" or 15/16" (14 or 24 mm) grid
- Modern office and retail spaces
- Lecture halls and classrooms
- Restaurants and cafeterias
- Recreational facilities
- Recording studios and music venues
- Showrooms and museum displays
- Machine rooms and manufacturing areas

#### Direct-Apply, Glue-up Panel Installations

- Use clean, thin white cotton gloves to handle panels
- Cut acouSTIC™ adhesive cartridge tip to produce ¼ inch (6.4 mm)-diameter bead
- Run a continuous bead of adhesive around the panel's perimeter, approximately 1.5 inch (38 mm) from edges, then apply intermittent beads from opposite corners through the center of the panel creating an X
- Press panel firmly into place and smooth evenly across it to ensure a strong, lasting bond; adhesive tack should be immediate
- Panels can be cut to fit on-site
- Please consult pinta acoustic for your specific project requirements

#### Suspended-Ceiling Grid Applications

- SONEX Pyramid 24" x 24" (610 x 610 mm) panels can be produced to suit 9/16" or 15/16" suspended grids
- Intended to be used as full-size panels only; not suited for cut-to-fit conditions
- Please consult pinta acoustic for your specific project requirements



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

#### Sound Absorption

Finishes	Thickness	Coefficient per ASTM C423-90a							Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
Natural (white and light grey)	2" (51 mm)	0.07	0.25	0.60	0.94	0.97	1.08	0.70	B
	3" (76 mm)	0.09	0.37	0.81	1.01	1.03	1.07	0.80	B
	4" (102 mm)	0.18	0.44	0.96	1.14	1.18	1.19	0.95	B
Water-based acoustic coated (standard, premium and custom colors)	2" (51 mm)	0.18	0.44	0.96	1.14	1.18	1.19	0.95	B
	3" (76 mm)	0.13	0.85	1.25	1.22	1.13	1.14	1.10	A

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
 Minneapolis, MN 55430  
 +1 (612) 355-4200  
 1-800-662-0032  
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[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



## SONEX® One Panels

Product Information



Omni-directional, deeper-sculpted surface pattern than SONEX® Valueline, SONEX One Panels will also produce interesting, ever-changing shadow and light play effects about direct-apply wall and ceiling applications. These panels provide superior sound absorption within most any interior space at affordable prices. SONEX One continuous-bevel edge panels are made from lightweight, non-fibrous open-cell expanded melamine WILLTEC™ foam and are readily available in a variety of standard and custom panel sizes, thicknesses and water-base acoustic finishes. pinta acouSTIC PA-02 water-base and PA-04 neutral-cure silicone adhesives adhere panels to most substrates.

### >> Advantages

- Excellent acoustic absorption across all sound frequencies; diminishes high noise levels and reverberation within demanding interior environments
- Naturally resistant to mold, fungus and bacteria growth, panels can withstand high heat and humidity of indoor swimming pools
- Lightweight, panels can be easily cut to fit

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Minneapolis, MN 55430  
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sales@pinta-acoustic.com  
www.pinta-acoustic.com

### Material

- Made from open-cell, natural light grey or white WILLTEC™ expanded melamine foam
- Standard water-based acoustic coating color options in arctic white, ivory, beige, light blue, light, medium or dark grey. Black and other premium or custom options are available; panels coated on one side and all edges standard
- Non-repeating, omni-directional sculpted-pattern panels with continuous 45-degree bevel edges standard; optional 15-, 22.5- and 30-degree bevel edge options available

### Sizes

- Panels: 24" x 48" (610 x 1219 mm) dimension
- Thickness: 2" or 3" (51 or 76 mm) thickness

### Applications

- Retail and boutique stores
- Modern offices, classrooms and libraries
- Multi-purpose cafeterias and gymnasiums
- Art centers, museums and display showrooms
- Restaurants, performance and entertainment venues
- Industrial manufacturing, production and assembly areas
- Indoor swimming pools, fitness centers and spas

### Direct-Apply, Glue-up Installation to Smooth Substrates

- Use clean, thin, white, cotton gloves to handle panels
- Cut acouSTIC™ adhesive cartridge tip to produce ¼-inch (6.4 mm)-diameter bead
- Run a continuous bead of adhesive around the panel's perimeter, approximately 1.5" (38 mm) from edges; then apply intermittent beads from opposite corners through the center of the panel creating an X
- Press panel firmly into place and smooth evenly across it to ensure a strong, lasting bond; adhesive tack should be immediate
- Please consult pinta acoustic with any questions prior to your specific project application start



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

### Sound Absorption

Finish	Thickness	Test ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
Natural (white and light grey)	2" (51 mm)	0.13	0.29	0.75	1.00	0.97	1.07	0.75	A
	3" (76 mm)	0.09	0.68	1.20	1.18	1.12	1.05	1.05	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
	3" (76 mm)	0.13	0.85	1.25	1.22	1.13	1.14	1.10	A



## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com



## SONEX® Mini Panels

### Product Information



#### Material

- Made from open-cell, natural light grey or white WILLTEC™ expanded melamine foam
- Standard water-based acoustic coating colors in arctic white, ivory, beige, light blue, light, medium or dark grey, black and other premium or custom options
- Omni-directional pattern, square-edge panels standard; optional 15-, 22.5-, 30- and 45-degree bevel edges

#### Size SONEX Mini

- Panel sizes: 24" x 48" (610 x 1219 mm) and custom
- Thicknesses: 1" or 1-1/2" (25 or 38 mm) and custom

#### Application

- Machine enclosures or air vents
- Applications requiring thinner panels

#### Direct-ApPLY, Glue-up Installation

- Use clean, thin, white, cotton gloves to handle panels
- Cut acouSTIC™ adhesive cartridge tip to produce 1/4" (6 mm)-diameter bead
- 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
- Press panel firmly into place and smooth evenly across it to ensure a strong lasting bond; adhesive tack should be immediate
- Please consult pinta acoustic with any questions prior to your specific project start

SONEX® Mini Panels provide excellent sound absorption, especially in environments requiring high-frequency noise control. Made with lightweight WILLTEC™ foam, SONEX Mini Panels are an ideal choice for use in machine enclosures and other confined spaces. Panels can withstand constant temperatures above 300°F (149°C) and will char, but not ignite, at temperatures above 1100°F (593°C). WILLTEC natural meets the corner burn test UL1715. Panels can be adhered to most substrates using pinta acoustic PA-02 water-base or PA-04 neutral-cure silicone adhesives.

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

#### Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
Natural (white and light grey)	1" (15 mm)	0.11	0.17	0.40	0.72	0.79	0.91	0.50	A
	1-1/2" (38 mm)	0.14	0.21	0.61	0.80	0.89	0.92	0.65	A
Water-based acoustic coated	1" (15 mm)	0.00	0.26	1.01	0.82	0.68	0.60	0.70	A

## >> Advantages

- Smaller convoluted surface pattern
- Excellent acoustic absorption across all frequencies
- Lightweight panels are easily cut to fit on-site
- Ideal for machine enclosures and other applications requiring thinner panels

2601 49th Avenue North, Suite 400  
 Minneapolis, MN 55430  
 +1 612-355-4200  
 1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)

## WILLDUCT Panels

Product Information



Easy to cut, trim and install in HVAC ductwork, pinta acoustic's WILLDUCT panels provide thermal and sound insulation, which help to reduce background noise as well as damage from condensation that can affect indoor environment quality (IEQ). WILLDUCT panels are made from WILLTEC™ foam, which is a lightweight, porous melamine foam with an optional water-based acoustic coating that protects the surface of the panels. It absorb background noise caused by HVAC fans and blowers, as well as noise that can interfere with conversation, instruction and concentration. WILLDUCT also insulates duct metal from cold air, so moist room air won't condense on the outside surface of the duct.

### >> Advantages

- Non-fibrous
- Resistant to mold growth
- Excellent noise reduction
- No masks or gloves needed for installation

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



## WILLDUCT Panels

### Product Information

#### Sizes

- 24" x 24" (610 x 610 mm), 48" x 48" (1219 x 1219 mm) and 48" x 96" (1219 x 2438 mm) sizes with a standard thickness of 1" (25 mm)

#### Applications

- Classrooms
- Libraries
- Offices
- Training rooms
- Boardrooms
- Hotels
- Entertainment facilities
- Residential

#### Installations

- Attaches to metal ducts using mechanical pins and/or pinta acoustic's acouSTIC™ adhesive
- Quickly cuts or trims in the field with a utility knife without tearing or cracking
- No need for masks or gloves—WILLDUCT is fiber-free
- Use at ends and at bend to reduce the most troublesome HVAC noise

#### 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 Meets UL 1715 (WILLTEC natural) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Heat Conductivity	K factor = 0.24 at 50°F (10°C), R value = 4.2
Finishes	Natural light grey, water-based acoustic-coated



#### Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
Natural	1" (25 mm)	0.05	0.18	0.53	0.85	0.95	1.00	0.65	A
Water-based acoustic coated	1" (25 mm)	0.07	0.25	0.71	1.06	1.10	1.00	0.80	A

#### Sound Absorption

Product/Thickness		Insertion Loss (dB/ft) per ASTM E477-99								
Flow	Flow (FPM)	PD (in w.c.)	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
WILLDUCT, natural /1" (25 mm) forward flow	0	0.000	0.00	0.12	0.49	2.18	4.37	2.66	2.22	2.26
	1000	0.024	0.00	0.13	0.45	2.10	4.32	2.67	2.29	2.25
	2000	0.094	0.00	0.09	0.43	2.05	4.30	2.77	2.35	2.23
	2500	0.148	0.00	0.04	0.40	2.00	4.28	2.78	2.32	2.22
WILLDUCT, natural /1" (25 mm) reverse flow	1000	0.000	0.00	0.21	0.52	2.25	4.37	2.55	2.29	2.12
	2000	0.094	0.00	0.20	0.65	2.39	4.32	2.66	2.33	1.97
	2500	0.148	0.00	0.20	0.69	2.44	4.39	2.75	2.31	1.91
	2500	0.148	0.00	0.20	0.69	2.44	4.39	2.75	2.31	1.91
WILLDUCT, Hypalon-coated /1" (25 mm) forward flow	0	0.000	0.12	0.21	0.56	2.31	4.45	2.79	2.40	2.26
	1000	0.024	0.04	0.11	0.46	2.22	4.39	2.61	2.48	2.36
	2000	0.094	0.00	0.13	0.46	2.18	4.35	2.86	2.49	2.30
	2500	0.148	0.03	0.10	0.43	2.13	4.30	2.92	2.52	2.27
WILLDUCT, /1" (25 mm) Hypalon-coated /1" (25 mm) forward flow	1000	0.000	0.15	0.22	0.57	2.38	4.50	2.77	2.36	2.15
	2000	0.094	0.20	0.22	0.61	2.47	4.57	2.79	2.39	2.04
	2500	0.148	0.23	0.25	0.66	2.55	4.54	2.66	2.40	1.96
	2500	0.148	0.23	0.25	0.66	2.55	4.54	2.66	2.40	1.96

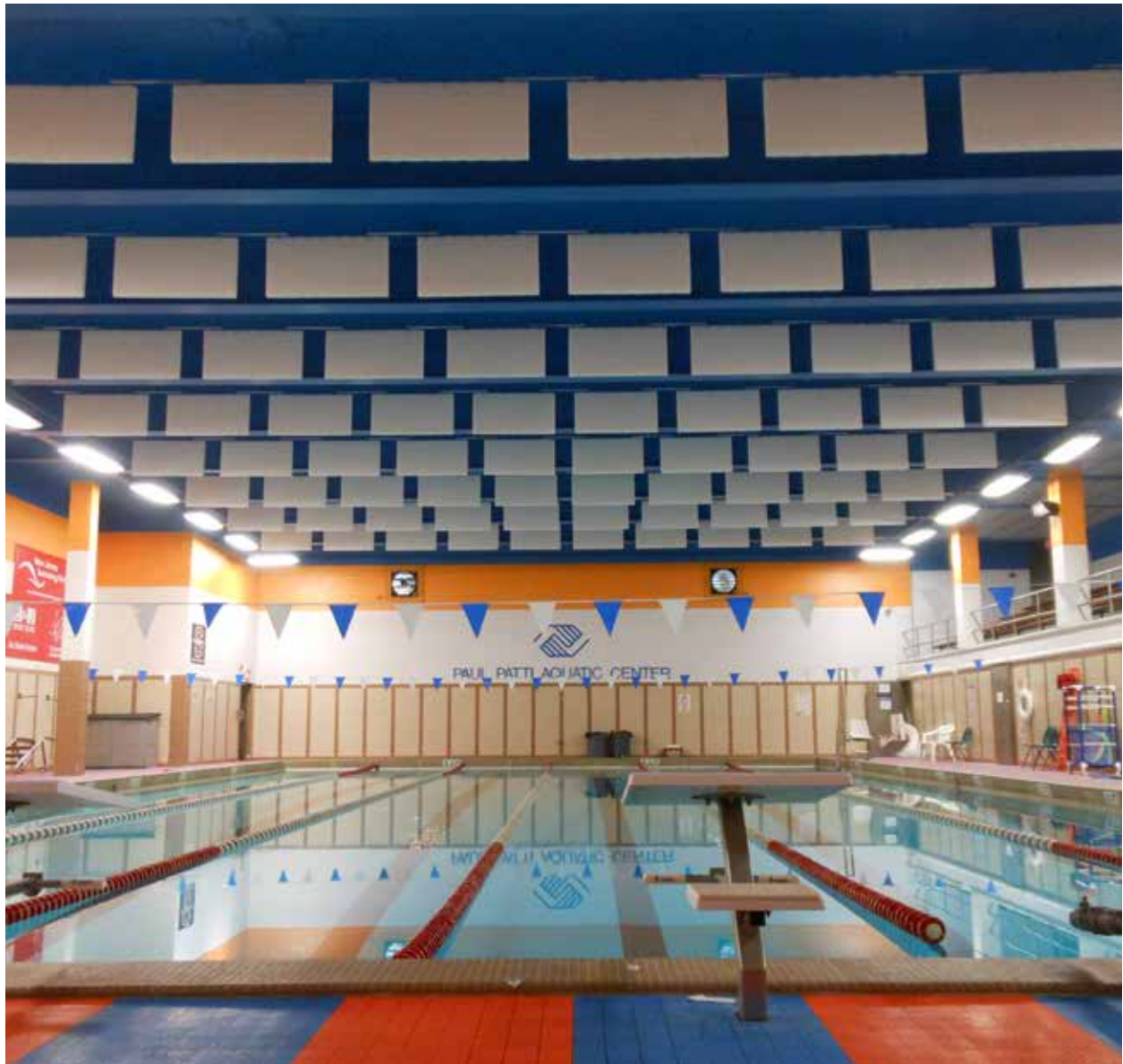
## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
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 +1 612-355-4200  
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[www.pinta-acoustic.com](http://www.pinta-acoustic.com)

## SONEX® Valueline Baffles

### Product Information



Omni-directional, softly sculpted surface pattern SONEX® Valueline Baffles provide superior sound absorption and produce subtle, ever-changing shadow and light play effects about suspended ceiling applications. SONEX Valueline Baffles are made from lightweight, non-fibrous open-cell expanded melamine WILLTEC™ foam. Baffles are readily available in a variety of standard and custom sizes, thicknesses and water-base acoustic finishes. SONEX Valueline Baffles are easy to suspend on site using mild or stainless-steel corkscrew hangers.

### >> Advantages

- Excellent acoustic absorption across all sound frequencies
- Lightweight, WILLTEC foam can easily be suspended using typical hanger wire, cable gripper or stretch cable systems
- Naturally resistant to mold, fungus and bacteria growth, baffles withstand high heat and humidity of indoor pools

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com



## SONEX® Valueline Baffles

### Product Information

#### Material

- Double-sided, omni-directional, softly sculpted surface pattern baffles made from open-cell, natural light grey or white WILLTEC™ expanded melamine foam
- Standard water-based acoustic coating color options in arctic white, light, medium or dark greys, black and other premium or custom options available; baffles coated on both sides and all edges standard

#### Sizes

- Typical baffle size: 24" x 48" (610 x 1219 mm) custom size and shape up to 48" x 96" (1219 x 2438 mm)
- Typical thickness: 2" (51 mm) and custom

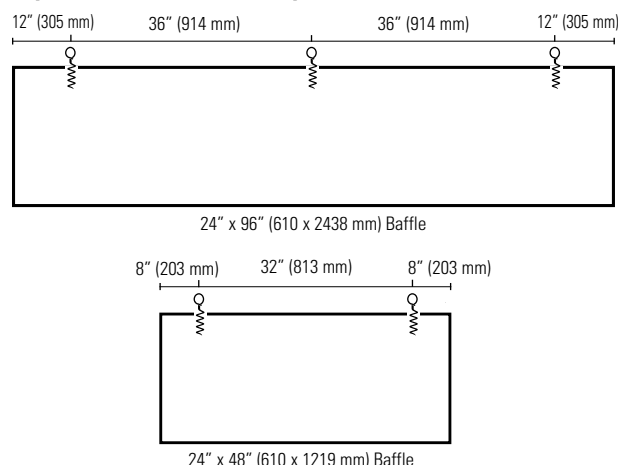
#### Corkscrew Hangers and Suspension Accessories

- Optional mild and stainless-steel type corkscrews available
- Suspension cable kits available
- 14" (356 mm) length spacers available for horizontal stretch-cable baffle applications

#### Application

- Large, open, high ceiling areas
- Manufacturing, production and assembly areas
- Indoor swimming pools and spas
- Gymnasiums and sports arenas
- Airports and other transportation facilities
- Cafeterias and breweries
- Music conservatories

#### Typical Corkscrew Hanger Spacing



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

#### Sound Absorption

Finish Thickness	(In sabins) ASTM C423-90a						
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	Ave.
2" (51 mm) Thick, Natural	1.0	5.4	10.8	16.3	18.7	24.0	12.7

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



#### Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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## WILLTEC™ Flat Sheets

Product Information



Rethink direct-apply, glue-up wall and ceiling panel applications. pinta acoustic's lightweight, smooth-surface WILLTEC™ Flat Sheets are readily available in a variety of shapes, sizes and thicknesses with square- or bevel-edge options. WILLTEC Flat Sheet panels provide superior sound absorption and limitless design possibilities at economical costs.

### >> Advantages

- Quick, efficient and low-cost applications to plan and work
- 30- to 50-percent panel coverage is typically all that's necessary
- WILLTEC panels can easily be cut to fit on-site
- pinta acouSTIC™ adhesive adheres to most substrates
- Standard, premium and custom water-based coatings

2601 49th Avenue North, Suite 400  
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1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



## WILLTEC™ Flat Sheets

### Product Information

#### WILLTEC Flat Sheet Material

- Made from smooth, natural light grey or white open-cell, expanded melamine foam
- Square-cut 90- or 15-, 22.5-, 30- and 45-degree bevel edge options
- Standard water-based acoustic coating in white, light, medium or dark greys, black and other premium and custom color options

#### Sizes

- Panel Sizes: various square and rectangular shapes up to 48 x 96 inches (1219 to 2438 mm) as well as circular, triangular, trapezoidal and custom
- Various Thicknesses: 1 to 4 inches (25 to 102 mm) and custom

#### Applications

- Smooth, clean and level, dust- and oil-free natural or painted drywall, concrete, plywood or metal substrates
- Best suited for small or large, open flat, sloped or curved ceilings; custom-size bay sections, square or rectilinear waffle slab fit-outs
- Open-plan office, educational, dining and retail environments, etc., anywhere acoustic comfort is desired

#### Assembly

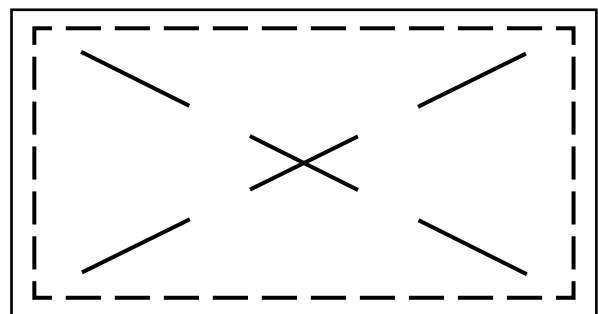
- Use clean, thin white cotton gloves to handle panels
- Cut acouSTIC adhesive cartridge tip to produce 1/4 inch (6.4 mm)-diameter bead
- Run a continuous bead of adhesive around the panel's perimeter, approximately 1.5 inch (38 mm) from edges, then apply intermittent beads from opposite corners through the center of the panel creating an X
- Press panel firmly into place and smooth evenly across it to ensure a strong lasting bond; adhesive tack should be immediate

#### Physical Data—WILLTEC foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (0.014 to 0.020), ASTM D3574-77
Long-Term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 Passes CAN ULCS-102
Fungus Resistance	Rating 0 per ASTM G21
Microbial Growth	Passes UL 181, section 11
Finishes	Natural (white and light grey) or water-based acoustic coated (standard, premium and custom colors)

#### Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC	
Natural (white and light grey)	1"	0.11	0.15	0.50	0.84	0.92	0.93	0.60	A
	2"	0.15	0.52	0.98	1.13	1.00	1.11	0.90	A
	3"	0.31	0.89	1.20	1.17	1.03	1.01	1.05	A
Water-based acoustic coated (standard, premium and custom colors)	1"	0.08	0.16	0.53	0.86	0.92	0.98	0.60	A
	2"	0.21	0.50	1.03	1.14	1.04	1.05	0.95	A
	3"	0.32	0.93	1.12	1.15	1.03	1.03	1.10	A



## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
 Minneapolis, MN 55430  
 +1 612-355-4200  
 1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)

## WHISPERWAVE™ Clouds, Baffles and Panels

Product Information



Versatile acoustic design elements, sinuous WHISPERWAVE™ suspended ceiling clouds and baffles, smooth-back, direct-apply, glue-up wall and ceiling panel products render graceful, flowing lines about interior spaces. In addition, WHISPERWAVE provides superior sound absorption. Made from lightweight, non-fibrous, open-cell expanded melamine WILLTEC™ foam, WHISPERWAVE products are readily available in a variety of standard and custom shapes, sizes, thicknesses and water-base acoustic coated color finishes.



### Advantages

- Excellent acoustic absorption across all sound frequencies
- Naturally resistant to mold, fungus and bacteria growth, can withstand high heat and humidity of indoor pools
- Various cloud and baffle single- and gang-suspension and direct-apply, glue-up smooth-back panel options available

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com



# WHISPERWAVE™ Clouds, Baffles and Panels

## Product Information

### Material

- Made from open-cell, natural light grey or white WILLTEC™ expanded melamine foam
- Standard water-based acoustic coating color options in arctic white, light, medium or dark grey, black and other premium or custom options are available

### Sizes

#### WHISPERWAVE Suspended Clouds

- Most any cloud shape and sizes up to 48" x 96" (1219 x 2184 mm)
- Offered in a variety of thicknesses, 2" and 3" (51 and 76 mm) standard options

#### WHISPERWAVE Suspended Baffles

- Most any baffle shape and sizes up to 48" x 96" (1219 x 2184 mm)
- Offered in a variety of thicknesses, 2" (51 mm) standard

#### WHISPERWAVE Direct-Apply, Glue-up Panels

- Most any panel shape and size up to 48" x 96" (1219 x 2184 mm)
- Offered in a variety of thicknesses
- Can be butted together to create a continuous appearance

### Installation

#### WHISPERWAVE Suspended Clouds

- Corkscrew hangers available for individually suspended clouds
- pinta precut T-slots available for close side-by-side, gang-suspended applications

#### WHISPERWAVE Suspended Baffles

- Corkscrew hangers available for individually suspended baffles
- Two to three corkscrew pieces per baffle typical according to size and orientation

#### WHISPERWAVE Direct-Apply, Glue-up Panels

- Use pinta acouSTIC™ adhesive tube cartridges or pourable, roll-apply adhesive products according to specific project applications as required: panel-to-substrate

Please reference the installation guide and consult pinta acoustic with any questions prior to your specific project start.

### 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 (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) 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
Finishes	Natural (white or grey) or water-based acoustic coated (standard, premium or custom colors)

### Sound Absorption—WHISPERWAVE Clouds

Finish	Thickness	Sabins per 48" x 96" Ceiling Cloud per ASTM C423-07						Mounting Type
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	
Natural (white or light grey)	2" (51 mm)	5.06	22.71	47.90	72.55	73.84	85.47	J
	3" (76 mm)	14.10	34.77	79.44	88.81	92.90	100.11	J

### Sound Absorption—WHISPERWAVE Baffles

Finish	Thickness	Sabins per 24" x 48" Baffle per ASTM C423-90a						Mounting Type
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	
Natural (white or light grey)	2" (51 mm)	1.0	5.4	10.8	16.3	18.7	24.0	J

### Sound Absorption—WHISPERWAVE Panels

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
Natural (white or light grey)	2" (51 mm )	0.11	0.33	0.85	1.05	1.09	1.06	0.85	B
	3" (76 mm)	0.09	0.68	1.20	1.18	1.12	1.05	1.05	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
	3" (76 mm)	0.13	0.85	1.25	1.22	1.13	1.14	1.1	A

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

## SONEX® Rondo Baffles

### Product Information



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.

#### >> Advantages

- Vertical or horizontal configurations for design flexibility
- Exceptional sound absorption across all frequencies
- Easy installation

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 (612) 355-4200  
1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



## SONEX® Rondo Baffles

### Product Information

#### Material

- Made from pinta's WILLTEC™ foam
- Natural white or light grey
- Optional water-based acoustic coating, standard, premium and custom colors

#### Sizes

- Up to 24" (610 mm) lengths
- 6" (152 mm) or custom diameters

#### Applications

- Reception areas
- Conference rooms
- Multipurpose rooms and gymnasiums
- Aquatic centers and indoor pools
- Music and classrooms
- Manufacturing facilities
- Stadiums
- Nearly any interior space with reverberation or echo problems

#### Installation Information

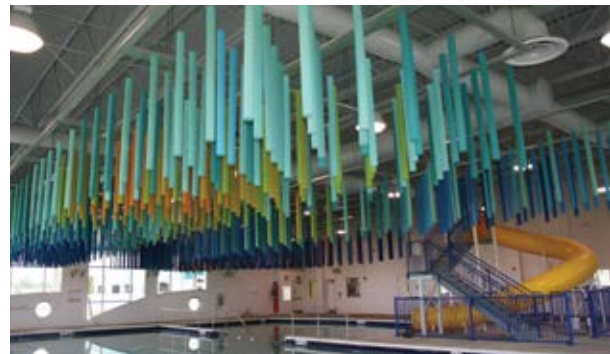
- Can be hung vertically or horizontally, above or below ceiling lights
- The distance between hanging absorbers and the ceiling has little effect on acoustic performance

#### 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' (3.05 m) below ceiling (long tethering may cause baffles to sway in areas with strong air currents)
- Use 1/16" (2 mm) cable or lightweight chain to hang baffles from the ceiling
- Attach cable or chain to ceiling by looping it around ceiling joists or trusses (Anchoring eyes can also be used. Install them into the ceiling before you begin.)
- Once cable or chains are in place, attach the bottom end of the cables or chains to the eye loop on top of the corkscrew hanger



#### Physical Data—WILLTEC foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance Rating	0 per ASTM G21
Finishes	Natural (white or light grey), water-based acoustic coated (standard, premium and custom colors)

#### Sound Absorption

Finish Thickness	Sabins per Baffle per ASTM C423 (J-Mount)						
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	Ave.
Natural 6" (152 mm) 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" (152 mm) diameter (white or light grey)	0.08	0.30	0.77	1.00	1.01	0.97	0.75



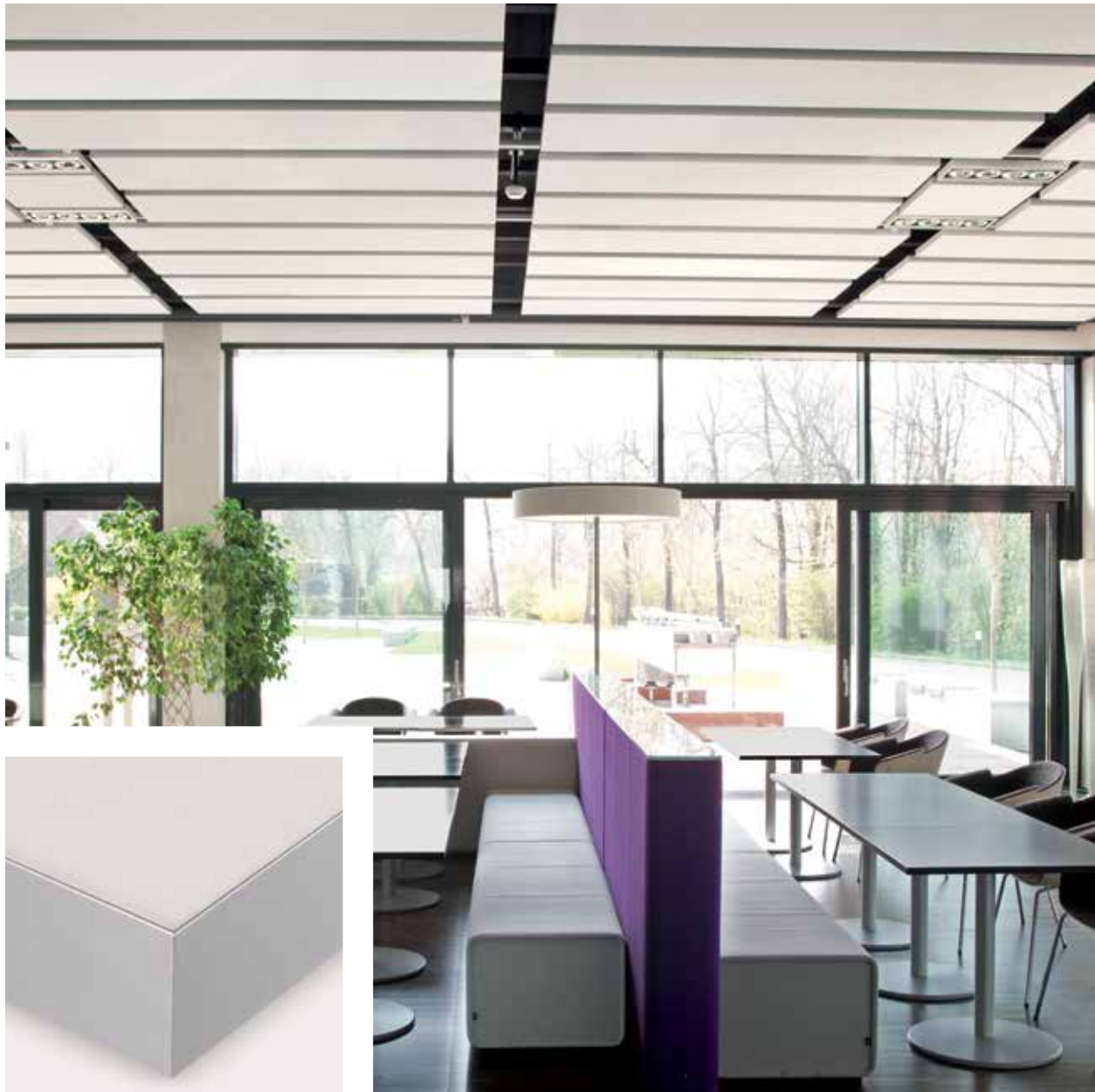
## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 (612) 355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

## BALANCE™ and BALANCE PLUS Ceiling Clouds

Product Information



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.

### >> Advantages

- Clean look adds dimension
- Excellent acoustical control
- Delivered completely assembled
- Easy installation

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
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# BALANCE™ and BALANCE PLUS Ceiling Clouds

## Product Information

### 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)

### Applications

- Open offices
- Reception areas
- Lobbies
- Conference rooms
- Libraries
- Loft spaces
- Museums
- Retail stores
- Worship centers
- Nearly any interior space that requires a clean look and acoustical control

### Installation

- Arrives completely assembled
- Easy suspension from ceiling or roof deck Z-support profiles and cable

### 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 Passes CAN ULCS-102
Color	White/black

### 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

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
 Minneapolis, MN 55430  
 +1 612-355-4200  
 1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)

## SONEX® One Baffles

Product Information



SONEX® One Baffles are an ideal product to diminish sound reflection and erratic noise issues within high-volume spaces. Omni-directional, deep-sculpted surface pattern SONEX One Baffles produce interesting, shadow-and-light play effects about suspended ceilings in addition to optimizing most interior environments' sound performance for their intended activity. SONEX One continuous bevel edge baffles are made from lightweight, non-fibrous, open-cell expanded melamine WILLTEC™ foam and are readily available in a variety of standard and custom sizes, thicknesses and water-base acoustic color finishes. SONEX One Baffles feature integral strap hangers to allow for simple, single- or multiple-stacked suspended on-site applications.



### Advantages

- Excellent acoustic absorption across all sound frequencies
- Naturally resistant to mold, fungus and bacteria growth, baffles can withstand high heat and humidity of indoor swimming pools
- Can easily be suspended using typical hanger wire, cable gripper and connector methods

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com



## SONEX® One Baffles

### Product Information

#### Material

- Double-sided, omni-directional, sculpted-surface pattern baffles made from open-cell WILLTEC™ natural light grey or white expanded melamine foam
- Standard water-based acoustic coating colors in arctic white, light, medium or dark grey, black and other premium or custom options available; baffles coated both sides and continuous-bevel edges standard

#### Sizes

- Panels: 24" x 48" (610 x 1219 mm) dimension
- Thickness: 3" (76 mm) thickness

#### Applications

- Large, open, high-ceiling areas
- Manufacturing, production and assembly areas
- Recreation, indoor swimming pools and spas
- Ice rinks, gymnasiums and sports training
- Airport, rail and other transportation facilities
- Auditoriums, cafeterias and breweries

#### Installation

- SONEX One Baffles feature integrated straps and grommets for easy single- or multiple-panel suspension
- Please confirm the correct baffle orientation to suit the projects specific suspended application prior to ordering
- Please consult pinta acoustic with any questions prior to your specific project application start



#### 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) 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" (76 mm)	2.3	5.7	10.5	15.3	18.6	24.8	12.9



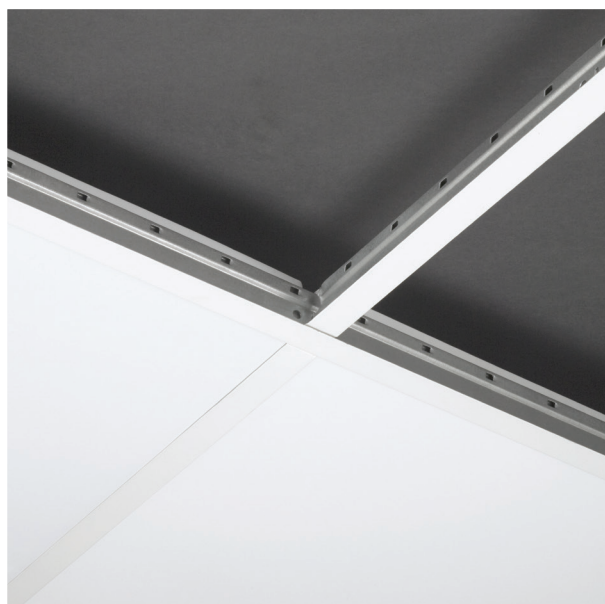
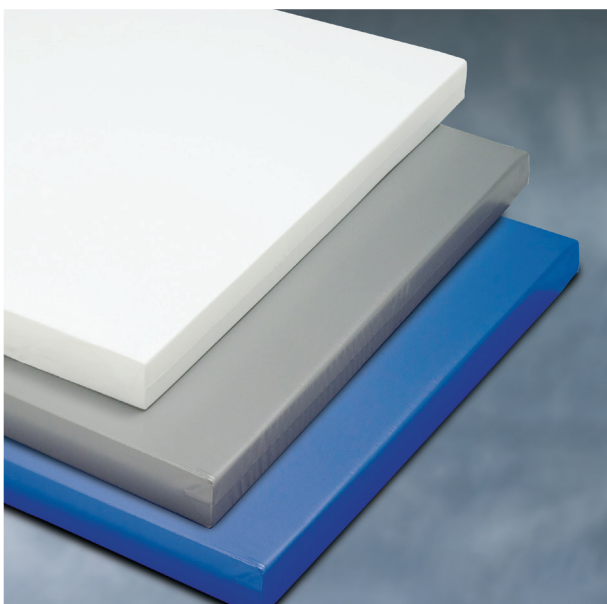
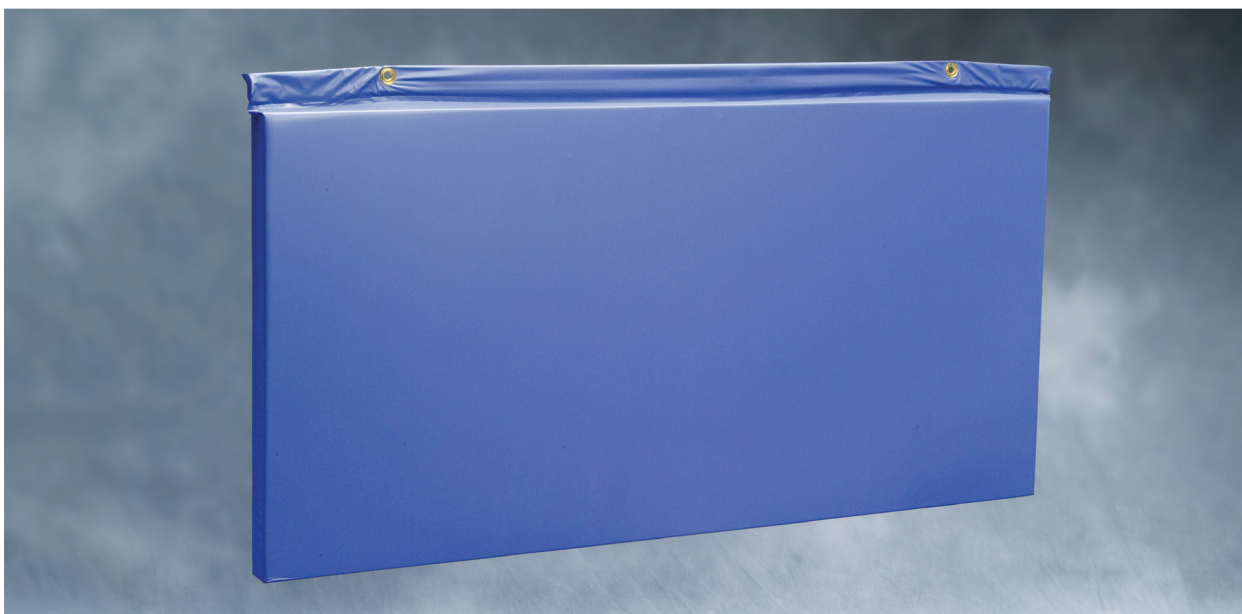
## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
 Minneapolis, MN 55430  
 +1 612-355-4200  
 1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)

## SONEX® Clean Baffles, Panels and Ceiling Tiles

Product Information



SONEX® Clean products are designed for environments that require excellent noise control across all sound frequencies using washable acoustic materials. Suitable for direct-apply, glue-up, suspended ceiling panel and baffle applications, the products are fully encapsulated in FR taffeta vinyl for efficient cleaning and long-lasting durability. SONEX Clean products meet USDA/FDA requirements.



### Advantages

- Superior sound absorption minimizes reverberation and echo
- FR Taffeta vinyl is available in 17 standard colors
- Naturally resistant to mold, fungus and bacteria growth, Sonex clean products can withstand high heat and humidity

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



## SONEX® Clean Baffles, Panels and Ceiling Tiles

### Product Information

#### Material

- Made from lightweight, non-fibrous WILLTEC® expanded melamine foam core
- Fully encapsulated in FR taffeta vinyl
- Reseal tape is included

#### Sizes

- Direct-apply, glue-up panels: 24" x 48" x 2" (610 x 1219 x 51 mm)
- Suspended ceiling panels: 23-3/4" x 23-3/4" x 2" or 23-3/4" x 47-3/4" x 2" (603 x 603 x 51 or 603 x 1213 x 51 mm)
- Suspended baffles: 26" x 48" x 2" (660 x 1219 x 51 mm) includes 2" (51 mm) top tab height

#### Application

- Clean rooms, scientific and medical research labs
- Aerospace and optics manufacturing facilities
- Bottling and food processing plants
- Commercial kitchens
- Indoor swimming pools

#### Installation

##### Direct-Apply, Glue-Up Panels

- Use pinta's PA-02 or PA-04 acouSTIC adhesive, mock-up to test for best adhesion recommended
- SONEX Clean resealing tape available for cut-to-fit panel conditions onsite

##### Suspended Ceiling Panels

- Fits within most standard 15/16" (24 mm) ceiling grid system

##### Suspended Baffles

- Produced with integral grommets along top tabs to easily loop suspension wire through

#### 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 (150° C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21



#### Sound Absorption—Ceiling Tiles

Thickness	Test ASTM C423-07; Mounting Type E						
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
2" (51 mm)	0.57	0.67	0.91	0.90	0.43	0.19	0.75

#### Sound Absorption—Wall Panels

Thickness	Test ASTM C423-07; Mounting Type A						
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
2" (51 mm)	0.18	0.75	1.21	0.82	0.40	0.25	0.80

#### Sound Absorption—Baffles

Thickness	Sabins per Baffle per ASTM C423-07; Hanging Baffle						
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Average
2" (51 mm)	1.88	5.23	10.33	11.84	5.33	2.99	8.20

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

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

## CONTOUR® Ceiling and Wall Tiles

Product Information



Create subtle or dramatic design affects throughout small- or large-scale, direct-apply, glue-up and suspended grid ceiling applications with CONTOUR® acoustic panels. These exceptional sound absorbers are made from lightweight, non-fibrous, open-cell expanded melamine WILLTEC™ foam and are available in a variety of patterns, panel thicknesses and water-base acoustic color finishes. CONTOUR patterns can be used separately or intermixed together to create further visual interest on a ceiling, unlike traditional panel types.



### Advantages

- Distinctive standard and custom panel pattern design and color options
- Exceptional acoustical performance; NRC rated as much as 1.20; CAC-rated at 34
- Primarily produced as square 24" x 24" (610 x 610 mm) panel sizes to suit either direct-apply, glue-up or suspended grid applications

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



## CONTOUR<sup>®</sup> Ceiling and Wall Tiles

### Product Information

#### Material

CONTOUR<sup>®</sup> panels are made from pinta's lightweight, open-cell, non-fibrous, expanded melamine WILLTEC<sup>™</sup> foam that provides excellent acoustical control. CONTOUR bevel-edge panels feature specially formulated, water-based acoustic color coatings in standard, premium and custom colors. Panels intended for suspended grid applications are produced with factory laminated, sag-resistant backerboards.

#### Sizes

- Direct-apply, glue-up panels 24" square (610 x 610 mm) x 1" or 1-3/4" (25 or 44 mm) panel thicknesses
- Suspended 15/16" (24 mm) grid lay-in panels 23" (584 mm) square x 1-3/8" or 2-1/8" (35 or 54 mm) panel thicknesses
- Suspended 9/16" grid lay-in panels 23-3/8" square (593 x 593 mm) x 1-3/8" or 2-1/8" (35 or 54 mm) panel thicknesses

#### Applications

- Modern offices, corporate and medical
- Lobby, retail and showroom spaces
- Restaurant and entertainment facilities
- Telecommunication centers and classrooms
- Lecture, exhibit and dance halls
- Panel pattern designs and thicknesses can be intermixed to create a frieze surround, etc.

#### Direct-Apply, Glue-Up Panel Installations

- Use clean, thin, white, cotton gloves to handle panels
- Cut acouSTIC<sup>™</sup> adhesive cartridge tip to produce 1/4" - (6.4 mm)-diameter bead
- 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
- Press panel firmly into place and smooth evenly across it to ensure a strong, lasting bond; adhesive tack should be immediate
- Panels can be easily cut to fit onsite; edge sealant is available
- Please consult pinta acoustic with any questions prior to the start of your specific project



*Standard patterns are offered. See pattern information sheet for more information. Custom designs and colors are also available. (Minimum panel quantities may be required.)*

#### Physical Data—WILLTEC<sup>™</sup> 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 Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM G21
Finishes	Natural (white or light grey) or water-based acoustic coated (standard, premium or custom colors)

#### CONTOUR Tiles Sound Absorption—Adhesive Installation

Finish Thickness	Coefficients per ASTM C423-90a							Mounting Type
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
Basix 1 1" (25 mm) Thick	0.12	0.24	0.59	0.89	0.96	0.99	0.65	A
Basix 2 1-3/4" (44 mm) Thick	0.21	0.48	0.93	1.09	1.09	1.04	0.90	A
All Patterns 1-3/4" (44 mm) Thick	0.16	0.28	0.71	0.96	1.00	0.99	0.75	A

#### Sound Absorption—Grid Installation

Finish Thickness	Coefficients per ASTM C423-90a							Mounting Type
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
Basix 1 1-3/8" (34 mm) Thick	0.63	0.54	0.81	1.24	1.30	1.36	0.95	E
Basix 2 2-1/8" (54 mm) Thick	0.43	0.73	1.18	1.44	1.44	1.54	1.20	E
All Patterns 2-1/8" (54 mm) Thick	0.61	0.67	1.01	1.33	1.43	1.56	1.10	E

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
 Minneapolis, MN 55430  
 +1 612-355-4200  
 1-800-662-0032  
 sales@pinta-acoustic.com  
 www.pinta-acoustic.com

## SQUARELINE® Metal Ceiling Tiles

Product Information



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.



### Advantages

- High-quality 3D expanded metal mesh surface patterns
- Available with or without acoustic backers
- 70-percent open area mesh panels without any acoustic backer meet IBC code allowing fire sprinklers to be concealed above the ceiling elevation

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
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[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)

## SQUARELINE® Metal Ceiling Tiles

### Product Information

#### 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

#### Applications

- Modern interiors and retail spaces
- Lobbies, lecture halls and education facilities
- Art centers, museums and showrooms
- Night clubs and music venues
- Restaurants, theaters and cinemas
- Convention centers and sports stadiums

#### Installation

- Handle with clean, white, cotton gloves
- Expanded metal is directional; install panels oriented in the same direction
- Depending upon actual metal gauge thickness, cut-to-fit panels can be made using sharp aviator snips, reciprocating sawzall, orbital jig saw or oscillating multi-tool fitted with metal-cutting blades
- Optional WHITELINE acoustic backer panels are simply intended to be placed atop SQUARELINE panels on-site
- Please consult pinta acoustic with any questions prior to your specific project application



#### 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 Passes CAN ULCS-102
Color	White/Black

## >> Other Products

- Direct-Apply, Glue-up Wall and Ceiling Panels
- Suspended Grid Lay-in Panels
- Suspended Baffles and Clouds
- Barriers, Foam and Composites

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## SQUARELINE® Metal Ceiling Tiles

Pattern Information

### SQUARELINE® Standard

Chrome Metal

White Metal

Black Metal



### SQUARELINE Medium

Chrome Metal

White Metal

Black Metal



### SQUARELINE Ultra

Chrome Metal

White Metal

Black Metal



All expanded metal mesh panels are produced having 70 percent open areas. Optional, WHITELINE acoustic backer panels have 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.

*Colors do not necessarily reflect the actual color of the product. Contact pinta acoustic for product samples.*

## WHITELINE® Ceiling Panels

### Product Information



WHITELINE® suspended, lay-in grid ceiling panels offer extraordinary acoustic value for everyday interior environments, such as classrooms, open-plan offices and retail spaces. Economically priced, these ceiling tiles are ideal for projects where the primary concerns are overall budget and lasting, quality products. WHITELINE panels feature superior sound-absorptive, open-cell, non-fibrous WILLTEC™ foam cores laminated with smooth, white fleece on one side and black fleece on the opposing surface. Custom panel sizes, thicknesses, colors and printing are available.



### Advantages

- Simple, quick and easy to install
- Panels can be exposed to view on one or the other side
- Fits within 9/16" or 15/16" (14 mm or 24 mm) typical suspension grid
- Lightweight, open-cell, non-fibrous, lay-in panels
- Provides outstanding sound absorption

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 (612) 355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

## WHITELINE® Ceiling Panels

### Product Information

#### Applications

- Educational facilities, classrooms, libraries and lecture halls
- Corporate, open-plan and private offices
- Retail department, supermarket and boutique stores
- Medical clinics, hospitals, pharmacies and assisted-living facilities
- Municipal public works, police precincts and firehouses
- Government courthouses and post offices
- Transport, airport, railway and bus terminals
- Restaurants, theaters and concert venues

#### Material

- Lightweight, open-cell, non-fibrous WILLTEC™ expanded melamine foam core panels laminated with smooth white or black translucent fleece on opposing sides
- Panels can be exposed to view on one side or the other, or mixed for a checkerboard pattern
- High light reflectance value of 0.89, white fleece side
- Custom colors and printing options are available

#### Size

- Offered in a variety of standard sizes: 2' x 2', 4', 6' and 8'; (610 x 610, 1219, 1829 and 2438 mm) 4' x 4' and 4' x 8' (1219 x 1219 and 1219 x 2438 mm) and custom
- Typical panel thickness: 9/16" (14 mm); WILLTEC panel cores can be produced thicker to increase sound absorption according to specific project NRC requirements

#### Installation

- WHITELINE® square-edge, suspended, lay-in grid ceiling panels are simple, quick and easy to install in any standard 9/16" or 15/16" (14 mm or 24 mm) exposed grid
- Easy to handle with soft white cotton gloves and to produce any cut-to-fit panel sizes on-site
- Non-fibrous WILLTEC expanded melamine foam core panels produce little to no dust during installation compared to mineral fiber-, rock wool- and fiberglass-based products



#### 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 1 (ASTM E84) Passes CAN ULCS-102
Color	White/Black

#### Sound Absorption

Thickness	Test ASTM C423-90a							Mounting Type
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
0.6" (15 mm)	0.27	0.60	0.64	0.80	0.91	1.02	0.75	E

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
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- Suspended Grid Lay-in Panels
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## HARMONI Ceiling Tiles

Product Information



HARMONI suspended acoustic ceiling panels are the natural choice when you're looking to create a unique, contemporary interior space with excellent sound absorption at an economical price. The panels are made from lightweight, non-fibrous, open-cell expanded melamine WILLTEC™ foam and have a 1/2" (13 mm) tegular edge. Smooth-surface HARMONI Vista panels and the lightly sculpted surface pattern of HARMONI Tartan panels are produced to suit typical 15/16" (24 mm) grid system. HARMONI Ceiling Tiles are readily available in a variety of standard and custom water-based acoustic coating color finishes.

### >> Advantages

- Smooth or softly sculpted panel faces
- Superior sound absorption NRC rated 0.95
- Standard, premium and custom water-based acoustic color coating option

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Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

## HARMONI Ceiling Tiles

### Product Information

#### Material

HARMONI Ceiling Tiles are made from pinta's lightweight, open-cell, non-fibrous WILLTEC™ expanded melamine foam, which provides excellent acoustical control. HARMONI Ceiling Tiles feature specially formulated water-based acoustic coating color options that increase surface durability and are easy to clean.

#### Sizes

- Panels: 1/2" (12.7 mm) square tegular edge 2' x 2' (610 x 610 mm) and 2' x 4' (610 x 1219 mm) panel sizes to suit typical 15/16" (24 mm) grid systems
- Thickness: 2" (51 mm)
- Custom options available

#### Applications

- Hospital and doctor offices
- Modern office and retail spaces
- Lecture halls and classrooms
- Restaurants and cafeterias
- Recreational facilities
- Recording studios and music venues
- Museums and showrooms
- Panel patterns can be intermixed throughout the ceiling

#### Installation

- Use clean, white, cotton gloves to prevent soiling tiles
- Non-fibrous WILLTEC foam panels are easily cut to fit on-site
- Typical L-angle and 1/2" (13 mm) step moldings suggested for use along perimeter walls
- Edge paint available, if necessary
- Please consult pinta acoustic with any questions prior to your specific project application start



#### 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	Standard water-based acoustic color coating options in white, light, medium and dark greys, black and other premium or custom color options

#### Sound Absorption

Finish Thickness	Test ASTM C423-90a							Mounting Type
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
2" (51 mm) thickness	0.89	0.84	0.78	1.02	1.05	1.00	0.90	E

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

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## SONEX® Linear Absorbers

Product Information



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.

### >> Advantages

- Streamlined appearance
- Excellent sound absorption
- Mold resistant
- Custom sizes, profiles and colors
- Easy installation

+1 612-355-4200

1-800-662-0032

blog: [www.pintaacoustic.net](http://www.pintaacoustic.net)

web: [www.pinta-acoustic.com](http://www.pinta-acoustic.com)

[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)



## SONEX Linear Absorber Material

- Made from pinta's WILLTEC™ foam
- Natural white or light grey
- Water-based acoustic coated in standard, 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)

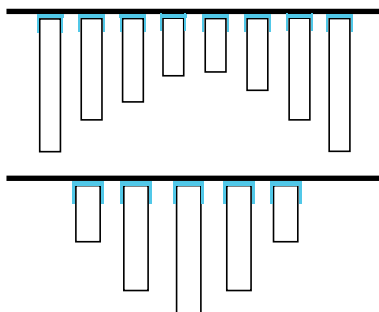
## Applications

- 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

## Ceiling Sections



# SONEX® Linear Absorbers Material

## Product Information

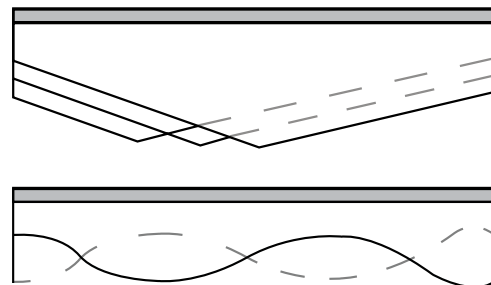
## Physical Data—willtec foam

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) 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 coating (standard, premium and custom colors)

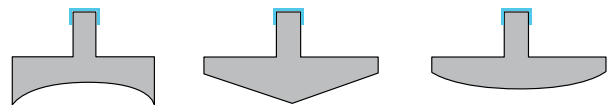
## Sound Absorption (In sabins) Test ASTM C423-90a

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 sabins per baffle	12.7

## Ceiling Elevations



## T-shaped Profiles



Additional ceiling sections, ceiling elevations and T-shaped profile ideas are available on our SONEX Linear design options sheet.

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200 | 1-800-662-0032  
www.pinta-acoustic.com  
sales@pinta-acoustic.com

## SONEX® Lumen Linear Absorbers

Product Information



SONEX® Lumen Linear Absorbers provide a modern appearance and excellent sound control with diffused secondary LED lighting. They are ideal for lobbies and showrooms, offices, entertainment facilities and more. Using a cable system, SONEX Lumen Linear Absorbers are easy to install. Combined with SONEX Linear Absorbers, they create a signature look.

### >> Advantages

- Streamlined appearance
- Excellent sound absorption
- Mold resistant
- Easy installation

+1 612-355-4200  
1-800-662-0032  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)

## SONEX® Lumen Linear Absorbers

### Product Information



#### SONEX® Lumen Linear Absorber Material

- Made from pinta's WILLTEC™ foam
- Natural white or light grey
- Water-based acoustic coated in standard, premium and custom colors for easy cleaning and durability
- Warm and cool LED color options available
- Cable installation kit and hangers supplied per details at the bottom

#### Sizes

- Length: 48 inches (1219 mm)
- Depth: 8 inches (203 mm)
- Thickness: 2 inches (51 mm)

#### Applications

- Lobbies
- Cafeterias and restaurants
- Entertainment facilities
- Worship centers

#### Installation

- Gripple Angel hangers and cables (supplied)

#### 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) 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

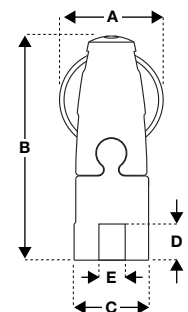
Frequency (Hz)	8 x 48 x 2 inches (305 x 2438 x 51 mm)
125	1.0
250	5.4
500	10.8
1K	16.3
2K	18.7
4K	24.0
Average sabins per baffle	12.7

#### LED Lights

Input Voltage	24V
Power Consumption	4.3W/ft. @4100K, 4.4W/ft. @5000K (14W/m @4100K, 14.4W/m @5000K)
Temperature Colors	Warm white 4100K, cool white 5000K
Lumen Output	800 lumens/ft. at 4100K, 850 lumens/ft. at 5000K
LED Count	36.6/ft. (120/m)
Safety Rating	UL pending
Electrical Hookup	Prewired 5 mm DC female plug
Power Supply	Not included

#### Gripple Angel

Dimension	Size
A	0.63" (16 mm)
B	1.37" (35 mm)
C	0.45" (11 mm)
D	Max. 0.23" (6 mm)
E	1/4" thread



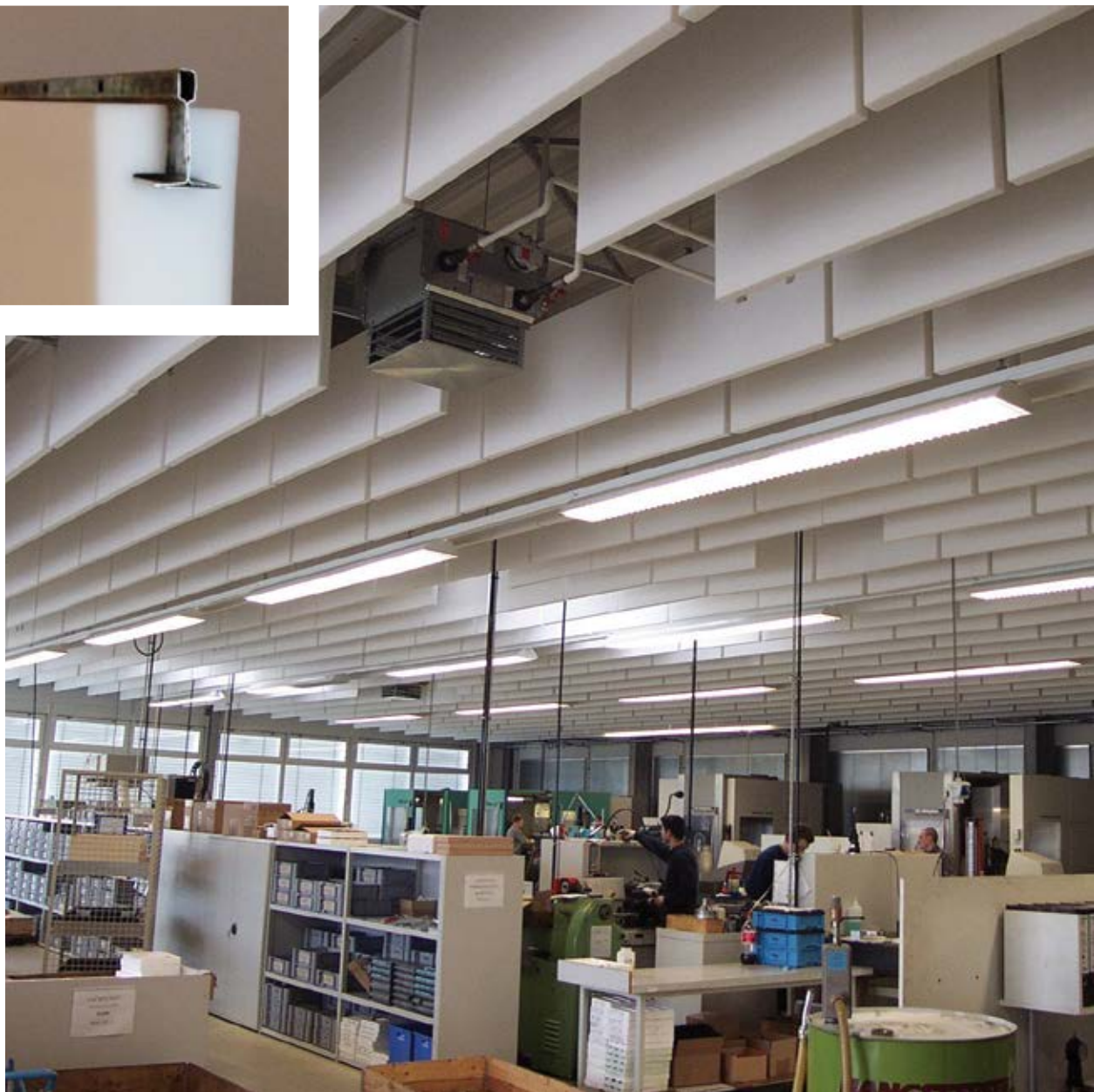
## >> Other Products

- Direct-Apply Ceiling and Wall Panels
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## SONEX® PLANO Absorbers Product Information



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.

### >> | Advantages

- Custom shape profiles
- Exceptional sound control
- For retrofitting and new construction
- Easy standard T-grid installation

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 (612) 355-4200  
1-800-662-0032  
sales@pinta-acoustic.com  
www.pinta-acoustic.com

## SONEX® PLANO Absorbers

### Product Information

#### 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)

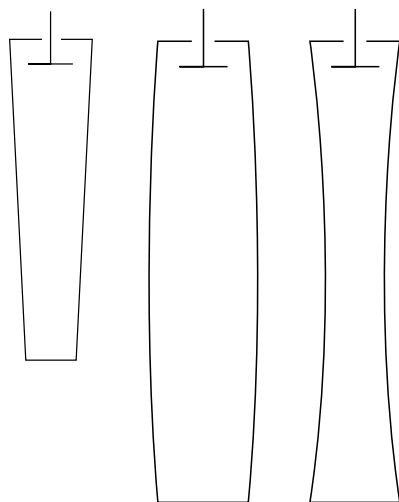
#### Applications

- 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

#### Profile Shapes



#### Physical Data—WILLTEC foam

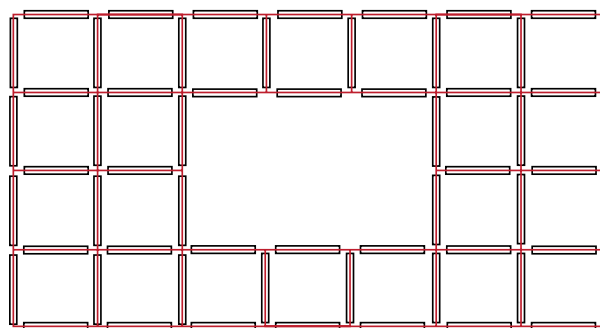
Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cu. ft. (ASTM D3574-77)
Long-Term Service Temperature	302°F (150°C)
Flame Spread and Smoke Density	Passes Class A per ASTM E 84 (all finishes) Passes CAN ULCS-102
Microbial Growth	Passes UL 181, section 11
Fungus Resistance	Rating 0 per ASTM 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	1.8
250	9.2
500	16
1K	21
2K	23
4K	28
Average sabines per baffle	16.5

#### Ceiling Plan



Additional ceiling plans and profile shapes are available on pinta's SONEX PLANO design options sheet.

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
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 Minneapolis, MN 55430  
 +1 (612) 355-4200  
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## PHONSTOP™ Ceiling and Wall Panel System

### Product Information



PHONSTOP™ 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.

### >> Advantages

- Made from 100-percent recycled glass; non-combustible
- Meets indoor air-quality and LEED requirements
- Simple to install using standard tools and cutting methods
- Weather and moisture resistant
- Can be custom colored on-site using non-bridging coatings

2601 49th Avenue North, Suite 400  
Minneapolis, MN 55430  
+1 612-355-4200  
1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



## PHONSTOP™ Ceiling and Wall Panel System

### Product Information

#### 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

#### 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

#### 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

#### Physical Data

Material	100-percent recycled glass
Density (ASTM D1622-08)	16.79 lbs./ft. <sup>3</sup> (269 kg/m <sup>3</sup> )
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



#### Installation

- Adheres directly to structurally sound walls and ceilings
- Roll on PHONSTOP pt-17 liquid primer to smooth, clean and level substrates, let dry
- Add water to PHONSTOP pa-81 dry powder adhesive and mix exactly as instructed per PHONSTOP installation guide
- Apply an even scratch coat of pa-81 adhesive across panel backs using a 3/8" (9 mm) square-notched tooth trowel (be careful not to get adhesive on the visible tile face)
- Lift and press panels firmly against substrates by shifting them slightly side to side and front to back into final position to produce the best initial tack and ultimate bond
- When used outdoors, weather-exposed conditions, apply PHONSTOP pt-13 Sealer

## >> Other Products

- Direct-Apply Ceiling and Wall Panels
- Suspended Ceiling Clouds and Baffles
- Suspended Grid Lay-in Panels
- Barriers, Foam and Composites

2601 49th Avenue North, Suite 400  
 Minneapolis, MN 55430  
 +1 612-355-4200  
 1-800-662-0032  
[sales@pinta-acoustic.com](mailto:sales@pinta-acoustic.com)  
[www.pinta-acoustic.com](http://www.pinta-acoustic.com)



Sound Absorbing Curtains

## ACOUSTIC CURTAINS™

Our custom made, laboratory tested and field proven Acoustic Quiet Curtains™ and Drapes 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. Acoustic Quiet Curtains work due to our unique combinations of fabrics, lining and construction. All Quiet Curtains are beautiful window treatments that look elegant and will be an asset to any room.

[Lab Tested Acoustic Properties >](#)

[Patented 3 layer construction >](#)

[View Fabrics >](#)

[See Reviews >](#)

## CURTAINS THAT CONTROL SOUND AND SOUND GOOD

Our Acoustic Quiet Curtains are different than normal curtains and were specifically designed to absorb and dampen sound. They are perfect for a space where high sound absorption is necessary. Highly reflective surfaces like large windows can be covered with the curtains.

- Up to 1.0 NRC Rating lab tested. This means that 100% of the sound is being absorbed by the curtain!
- Three layer heavy duty construction
- Excellent sound absorption
- Custom tailored to your needs





#### BLACKOUT

Our proprietary lining provides blackout in all our curtains



#### THERMAL REGULATION

Our heavy duty curtains help regulate temperature



#### BEAUTIFUL FABRIC

Choose between one of our high quality fabrics



#### HIGH QUALITY

You will be delighted with the quality of workmanship and finish



#### EASY INSTALL

Our curtains can be mounted on rods or tracks



#### MADE IN THE USA

All Quite Curtains are hand made in the best drapery workroom in Southern California

#### 1 EASY CLOSE TRACK

Our hooks can be mounted on rods or tracks. We suggest curtain tracks for these heavy duty curtains. The tracks are smooth, reliable, and easy to close.

#### 2 QUALITY STITCHING

Our curtains are heavy duty 3 layer curtains made to last. They have discreet stitching and reinforced stitching

#### 3 CUSTOMIZE FABRIC

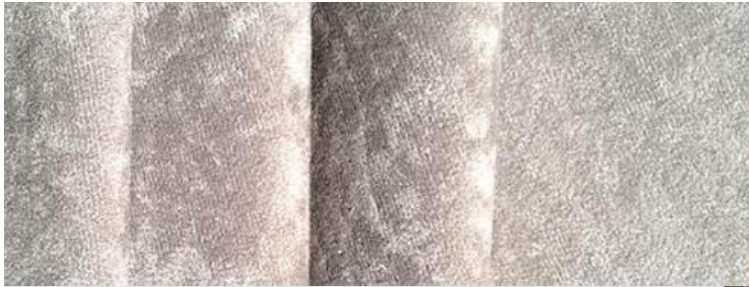
We use high quality fabric. Any fabric of your choice can be used, but our fabrics are tested for their noise properties. We offer fabrics that are linen, cotton, microfiber, and velvet. Our curtains can be made in a wide range of constructions including pleated, Ripplefold, flat panel, Roman shades and our new STC 17 roller shades.





# FABRICS

Request swatches to see our fabrics in person. View the entire gallery to see all the colors. Or view the order form to get started.



## VISA ULTRA VELVET®

- 100% Trevera Polyester
- 8 ounce weight
- Washable in warm water and dry cleanable
- Excellent for draperies

## NOVA SUEDE®: THE NEWEST IN FIBER TECHNOLOGY.

- 100% pure microdenier Polyester fabric; 13 ounce weight.
- Perfect for high traffic Home & Commercial use.
- Developed for easy spot cleaning and washability.
- Anti-sag, stiffening, pilling and shrink protected.
- Engineered for abrasion resistance.
- Lasting color fastness.
- Available in Fire Retardant.



## DESTINY: LINEN-LIKE FABRIC.

- Luxurious linen look
- Textured solid weave
- Fire Rated 100% polyester
- Soft hand and wonderful drape

## Crescent Velour



Burgundy



Wheat



Moleskin



Mink



Claret



Ruby



Royal



Bermuda



Ink Blue



Peacock



Bottle Green



Silver



Black



Pure



Cloud



Dove



Linen



Beach



Teak



Biscotti



Mushroom



Sandlewood



Shadow



Flint



## Nova Suede



Platinum



Cement



Charcoal



Gunmetal



Black



Cloud



Tide Pool



Sea



Indigo



Navy



White



Cream



Parchment



Oyster



Fawn



Khaki



Stone



Camel



Mica



Buckskin



New Mocha



Peat



Cafe



Chocolate



Godiva

## Nova Suede



Espresso



Bittersweet



Celery



Lime



Kiwi



Sage



Olive



Hunter



Chestnut



Rust



Copper



Pumpkin



Dusty Rose



Tomato



Lipstick



Cinnabar



Wine



Aubergine



Purple

## Visa Ultra Velvet



Royal Blue



White



Beige



Taupe



Gold



Brick



Red



Wine



Burgundy



Purple



Forest



Navy



Grey



Black



# SOUND ABSORPTION

NRC is short for Noise Reduction Coefficient. It is a measurement of how well something absorbs sound, mostly in the range of normal speech frequencies. NRC of 1.00 absorbs all sound.

## Summarized WEAL Lab Test Results

### Sound Absorption Results NRC's

#### Acoustic Quiet Curtains

	Low	High
Crescent Velour	<b>.85 NRC</b>	<b>1.0 NRC</b>
Vara Velvet	.75 NRC	.90 NRC
Overture	.65 NRC	.80 NRC
Visa Velvet	.55 NRC	.70 NRC
Nova Suede	.50 NRC	.65 NRC
Solitaire	.40 NRC	.65 NRC



Sound Blocking Curtains

## QUIET CURTAINS™

Our custom made, laboratory tested and field proven STC sound blocking Quiet Curtains™ and Drapes block outside noise, and light. All Quiet Curtains are beautiful window treatments that look elegant and will be an asset to any room. Fabrics sourced mill direct and in house manufacturing allow us to eliminate various middlemen and bring you true value for custom made sound blocking curtains. We can also make STC 20 Quiet Curtains using fabric you provide.

Lab Tested Sound blocking up to 60% >

Patented 3 layer construction >

[View Fabrics >](#)

[See Reviews >](#)

## BLOCK UNWANTED NOISE AND KEEP THE CALM IN

Our STC Sound Blocking curtains work due to their inner linings. These linings are specialized, proprietary vinyl's made exclusively for Quiet Curtains. The face fabrics used to construct the curtains have little impact on sound blocking.

See [Lab Tests](#)

- Blocks 15-20 dB depending on fabric and lining
- It reduces the volume of noise by about 60% [the highest tested curtain on the market].
- Three layer heavy duty construction
- Proprietary lining
- We can also construct sound blocking and sound absorbing curtains! Tell us about your noise problem.





#### BLACKOUT

Our proprietary lining provides blackout in all our curtains



#### THERMAL REGULATION

Our heavy duty curtains help regulate temperature



#### BEAUTIFUL FABRIC

Choose between one of our high quality fabrics



#### HIGH QUALITY

You will be delighted with the quality of workmanship and finish



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We use high quality fabric. Any fabric of your choice can be used, but our fabrics are tested for their noise properties. We offer fabrics that are linen, cotton, microfiber, and velvet. Our curtains can be made in a wide range of constructions including pleated, Ripplefold, flat panel, Roman shades and our new STC 17 roller shades.





## FABRICS

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- Perfect for high traffic Home & Commercial use.
- Developed for easy spot cleaning and washability.
- Anti-sag, stiffening, pilling and shrink protected.
- Engineered for abrasion resistance.
- Lasting color fastness.
- Available in Fire Retardant.



### DESTINY: LINEN-LIKE FABRIC.

- Luxurious linen look
- Textured solid weave
- Fire Rated 100% polyester
- Soft hand and wonderful drape



### SOLITAIRE

- 8 ounce
- 100% polyester
- Looks like cotton but has cleanability of polyester
- Natural looking fiber
- Wide variety of colors
- Longer lasting
- Easy to clean



### VISA ULTRA VELVET®

- 100% Trevera Polyester
- 8 ounce weight
- Washable in warm water and dry cleanable
- Excellent for draperies



### DUCHESS

- 100% cotton
- Sateen weave
- Elegant soft hand
- Beautiful low luster sheen
- Soft hand and wonderful drape





Pure



Cloud



Dove



Linen



Beach



Teak



Biscotti



Mushroom



Sandlewood



Shadow



Flint

## Duchess



Aqua



Aubergine



Basil



Biscuit



Black



Bone



Brick



Brown



Butter



Cactus



Candlelight



Coffee



Coral



Cranberry



Cream



Crimson



Dove



Dresden



Dusty



Eggshell



Espresso



Fire



Gold



Ivory



Jute



## Duchess



Kiwi



Lavender



Muave



Midnight



Mint



Navy



Nectar



Nugget



Parchment



Porcelain



Red



Sage



Sand



Spray



Teal



Velin



White



Wine



Woodrose

## Nova Suede



Platinum



Cement



Charcoal



Gunmetal



Black



Cloud



Tide Pool



Sea



Indigo



Navy



White



Cream



Parchment



Oyster



Fawn



Khaki



Stone



Camel



Mica



Buckskin



New Mocha



Peat



Cafe



Chocolate



Godiva

## Nova Suede



Espresso



Bittersweet



Celery



Lime



Kiwi



Sage



Olive



Hunter



Chestnut



Rust



Copper



Pumpkin



Dusty Rose



Tomato



Lipstick



Cinnabar



Wine



Aubergine



Purple



## Solitaire



Fawn



Khaki



Camel



Tan



Caramel



Coffee



Copper



Rust



Chocolate



White



Off White



Cream



Natural



Pink



Misty Pink



Peach



Saffron Pink



Lobster



Light Burgundy



Burgundy



Gold



Yellow



Zinnia



Orange



Lavender

## Solitaire



Purple



Fuschia



Red



Lime



Apple Green



Kelly Green



Hunter Green



Olive



Light Blue



Milky Blue



Alpine Blue



Crayon Blue



Royal Blue



Aqua



Navy



Grey



Steel Grey



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Dark Charcoal



Black

## Visa Ultra Velvet



Royal Blue



White



Beige



Taupe



Gold



Brick



Red



Wine



Burgundy



Purple



Forest



Navy



Grey



Black



## SOUND BLOCKING

A STC rating short for Sound Transmission Coefficient describes the average number of decibels blocked by a material.

Our STC Sound Blocking curtains work due their inner linings. These linings are specialized, proprietary vinyl's made exclusively for Quiet Curtains. The face fabrics used to construct the curtains have little impact on sound blocking. See the Table below for recommended face fabrics.

	STC 20 Rated Lining	STC 17 Rated Lining	STC 13 Rated Lining
Lining Specs			
Weight lbs/sf	0.400	0.275	0.225
Fire Rated	No	Yes	Yes
Color	Black	White	White
Vinyl Type	MLV	Laminated	Laminated
	<b>STC 20</b>	<b>STC 17</b>	<b>STC 13</b>
Curtain types			
Soft Fold 3 ply	X	X	X
Soft Fold 2 ply		X	X
Pleated			X
Ripplefold		X	X
Roman Shade		X	X
Roller Shade		X	X
	<b>STC 20</b>	<b>STC 17</b>	<b>STC 13</b>
Recommended fabrics			
Nova Suede	X	X	X
Visa Velvet	X	X	X
Solitaire	X	X	X
Anti-Microbials		X	X

Under normal conditions, the following will serve adequately well as a general guide on the impact of variances in sound pressure levels:

- 1 dB change is imperceptible
- 3 dB change is just perceptible
- 5 dB change is clearly perceptible
- 10 dB change is substantial (halves or doubles noise heard)



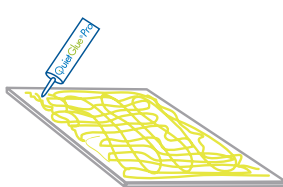
## High Performing Noise Reducing Glue

QuietGlue® Pro is a high performance, non-structural, acoustical product ideal for small to medium do-it-yourself projects.

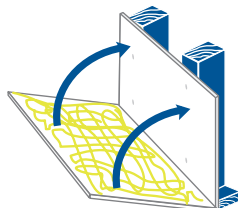
### QuietGlue® Pro Benefits:

- 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

### STOP THE NOISE IN 2 EASY STEPS



**1** Dispense Glue



**2** Screw onto wall

### Product Specifications:

<b>Model:</b>	QuietGlue® Pro
<b>Color:</b>	Yellow
<b>Density:</b>	8.3 lbs/gal
<b>Solid content:</b>	>70 wt %
<b>Viscosity:</b>	400,000 - 800,000 centipoise
<b>Drying time:</b>	24-48 hours
<b>Coverage:</b>	Use two (2) tubes per standard length (8'-12') panel and all cut outs.
<b>Storage temp:</b>	40° F - 100° F (Do Not Freeze)
<b>Working time:</b>	1-2 hours
<b>Available sizes:</b>	28-oz tube, case of 12 28-oz tubes

*Note: Tubes require a standard caulking gun. Application of excess glue will not improve results and can potentially cause seepage of excess glue along the edges. Leave a clean 3" border around the panel edges and all cut outs. Fasteners are required as product is not a sealant or adhesive.*

Visit [www.QuietRock.com](http://www.QuietRock.com) for installation instructions and complete documentation.

# QuietGlue® Pro

## Application & Installation Instructions

QuietGlue Pro is a non-structural, water-based, viscoelastic glue used to laminate two or more panels to reduce sound transmission in new or existing construction (walls, ceilings, etc.). QuietGlue Pro is a versatile, user friendly product ideal for small to medium "do it yourself" projects.

**CAUTION:** Using more than the recommended amount of glue will not improve effectiveness of the product.

### Application:



1. Make sure panel surfaces are clean and free of loose fibers and dust.
2. New construction: Install first panel onto frame as normal. Existing construction: proceed to step 3.
3. Place panel to be laminated face down on a clean surface.
4. Cut top of tube and install nozzle. Cut a 1/4" – 3/8" hole on the top of glue nozzle.
5. Apply QuietGlue Pro in a random pattern on the laminating panel. Use two (2) tubes per panel standard length (8'-12') panel, leaving a clean 3" border around the panel edges and all cut outs.
6. Attach glued panel to the installed panel surface using appropriate fasteners.
7. Apply QuietSeal® Pro around the perimeter joints of wall, floor or ceiling, ensuring a complete seal. Note: QuietSeal Pro will remain soft. For more details, see QuietSeal Pro instructions.
8. Use QuietPutty® acoustical putty around all electrical boxes and penetrations. See QuietPutty instructions for more details.
9. Finish and decorate as usual.



**Notes:**

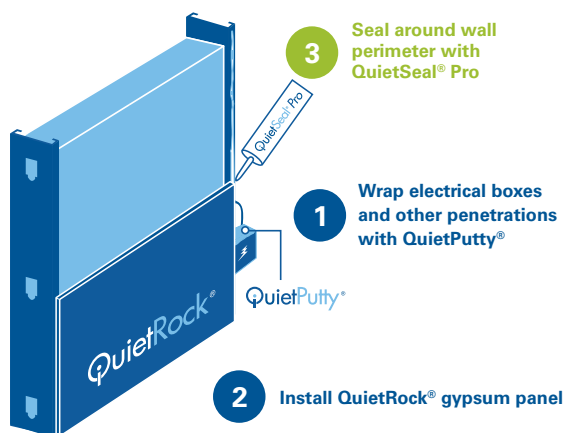
- QuietGlue® Pro contains no hazardous materials.
- Working time is 1-2 hours.
- Best results when applied between 50°F and 95°F—**DO NOT FREEZE**
- Fasteners are required as product is not a sealant or adhesive.
- Cleanup with soap and water.
- Dispose of excess product in the same responsible manner as any other household waste.
- **NOT FOR STRUCTURAL USE**



## 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.

### The Quiet® Sound Damping System in 3 easy steps:



Visit [www.QuietRock.com](http://www.QuietRock.com) for installation instructions and complete architectural documentation.

### 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:

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

The information contained in this document is for general purposes only. Features and specifications are subject to change. Construction practices have an influence on final STC ratings. PABCO® Gypsum cannot guarantee actual STC ratings. Flanking sound patterns, the integrity of the wall, and construction methods factor in effective sound control. QuietSeal® Pro should be stored flat in a dry area to prevent damage to product.



## Anti-sound & vibration coating for cars, appliances, HVAC, and electronics

QuietCoat® 118 is a sprayable, viscoelastic polymer that reduces noise and vibration with minimum weight, bulk and cost. QuietCoat® is engineered specifically for coating nonporous materials including stainless steel, galvanized iron, aluminum and composite (reinforced plastic) materials.

### QuietCoat® Benefits:

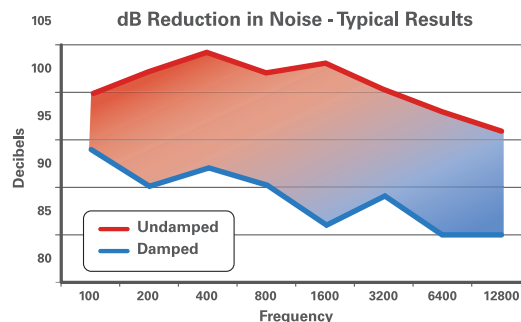
- Typical noise reduction of 6dB to 20dB\*
- Easily applied with brush, roller, air gun, or airless sprayer
- Ideal for most porous and nonporous metal surfaces - cars, studs, HVAC ducts, roofing, machinery, and appliances
- Fully ROHS compliant
- Fast-drying in under 20 minutes
- Easy cleanup, water-soluble
- Meets industry flammability standards
- Noise-damping results will continue to improve for 14 days
- Tested in accordance with ASTM E-756 vibration testing
- Tested in accordance with FMVSS302; burn resistance testing for materials used in occupant compartments of motor vehicles
- Environmentally friendly, lab tested
- Low VOC and low odor

Visit [www.QuietRock.com](http://www.QuietRock.com) for application instructions and complete architectural documentation.

\*Depending on application. Application thickness and environment may influence noise reduction ratings. PABCO® Gypsum cannot guarantee actual noise reduction ratings. The information contained in this document is for general information purposes only.

### Product Specifications:

<b>Model:</b>	QuietCoat® 118
<b>Solid Content:</b>	>77 wt %
<b>Compliance:</b>	Low VOC (<0.1 g/l)
<b>Density:</b>	Wet - 13 lbs/gal (1560 kg/m³) Dry - 8.5 lbs/g
<b>Coverage:</b>	40 - 80 sqft/gal
<b>Layer Thickness:</b>	0.02" - 0.06"
<b>Drying Time:</b>	20 min
<b>Curing Time:</b>	72 hours
<b>Coverage:</b>	40 - 80 sqft/g
<b>Storage temp:</b>	40°-100°F - Do not freeze





# QuietCoat®

## QuietCoat 118 Application Notes

**QuietCoat 118 excels at deadening sound for steel, aluminum, plastics, composites and other non-porous materials.**

QuietCoat 118 is a new high technology viscoelastic polymer coating to make any material quiet. Excellent for removing (absorbing) unwanted noise and vibration in metal, HVAC systems, motors, engines, gears, etc. QuietCoat 118 is a water-based, non-toxic, no-VOC product that will not burn.

QuietCoat 118 converts the kinetic (noise) energy into heat energy. You can theoretically measure that energy conversion, but it's less than 0.1° Fahrenheit. By absorbing vibration, noise can be reduced by up to 20dB – a remarkable 75% of the perceived noise, depending on application.

QuietCoat 118 is easily applied on any surface by brush, roller, or sprayed on with a spray gun using an air compressor or airless paint sprayer. The more coats you apply and the thicker you apply it, the more noise will be reduced.

**Surface Preparation:** All grease, oil, lubricants, waxes, polishes, or other materials that can prevent Quiet(Car/Boat/Coat/Ship) from adhering must be removed. Most of these materials can be removed with pressure washing or an aggressive household cleaner such as Formula 409. Paint does not need to be removed; however, smooth surface or glossy coatings must be abraded by sandpaper or sandblasting. Loose dirt, rust or other debris must be removed by abrasion or acid wash. If the cleaning process exposes bare, anodized or powder coated metal, the metal should be abraded and/or primed with an adhesion promoting primer such as Dura-Clad Universal Bonding Primer. Follow paint manufacturer's instructions for surface preparation before priming. Proper surface preparation is a key element of a long lasting a durable coating.

**QuietCoat 118 Preparation:** QuietCoat 118 liquid must not be allowed to freeze prior to use or while it is curing. After it has completely cured, it can withstand temperatures from -120°F to 350°F without failing. For application methods such as rolling or brushing QuietCoat 118 can be applied as it comes from the factory. Do not thin the material.

**Application Methods:** QuietCoat 118 can be applied using a brush, roller or spray. The damping ability of the material is un-affected by application method. The goal is to apply one or more coats that accumulate to 1-3mm. Brushing is recommended for test applications. Undercoating may not be required. The surface must be free of oils and loose rust. Bare steel surfaces must be abraded and/or primed before applying Quiet(Car/Boat/Coat/Ship). Sandblasting the surface is highly recommended. Read full instructions before application, available at [www.QuietRock.com](http://www.QuietRock.com) or call 800-797-8159.

**Spraying Pros:** Spraying is the most efficient method to cover larger areas or for high volume production use, especially with irregular surfaces that are hard to reach with roller or brush. Spraying quickly applies a thick, even coat, that will appear somewhat bumpy (this is normal). Use either a standard air sprayer or airless compressor (preferred, see requirements below). **Cons:** Requires surface protection, e.g. masking, covering with tin foil, plastic wrap or paper; requires cleaning the spray equipment. Typical thickness per layer is about 1mm (0.040").

**Rolling Pros:** Rolling is much more controlled and precise than spraying and minimizes over-spray and splattering. Therefore less protective preparation is needed when rolling QuietCoat 118. Use a standard paint roller with ½" nap. **Cons:** Rolling will typically apply less material than spraying therefore, applications requiring two coats when sprayed, may require three or more when rolled. Typical thickness per layer is about 0.5mm (0.020"). Rolling is not a preferred method unless

absolutely necessary as it will only apply very thin layers. In most cases, 6-8 layers will be necessary instead of 3.

**Brushing Pros:** Applies lots of material quickly. Use any standard brush that is appropriate for water-based latex paint, and then wash or discard. This is the best method for testing QuietCoat 118 in your application, and is the easiest way to apply. **Cons:** The surface of the QuietCoat 118 may show brush marks and brushing may give an uneven thickness. Typical thickness per layer is about 1mm to 2mm (0.080").

## Using QuietCoat to Coat Metal Studs

1. Wipe the inside of the metal stud with a weak acidic solution such as distilled white vinegar. Metal studs are often coated with a light oil that must be removed for the Quiet Coat to adhere.
2. With a brush or spray gun, coat the inside of the stud with approx. 1mm of Quiet Coat.
3. Allow to dry as recommended in the Drying & Curing section. Apply a second coat if increased damping is desired.

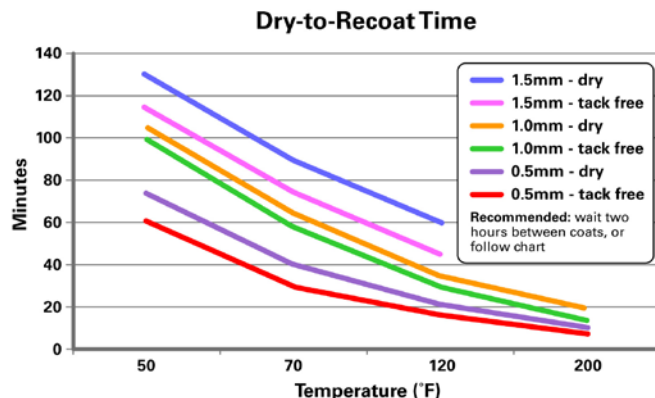
## Spraying Equipment

**Airless Sprayers:** Consumer-grade and professional spray guns such as Graco and Wagner that develop at least 4,000 psi work well. Use a 0.019" (0.5mm) tip and keep the siphon hose short (under 3 feet is preferred). This small nozzle size is not usually standard and you may have to purchase it separately. Be sure to clean the sprayer using soap and water within 30 minutes (after last use) or the material will begin to set inside the sprayer.

**Air Gun:** You will need a special air spray gun that is designed for very high viscosity materials. You will also need a compressor with at least a 2-gallon tank that develops 90 psi. A 6-gallon or larger air tank is preferred so the tank doesn't have to recharge (get pumped full of air) too often. Using a large funnel and a ladle, carefully fill the can with QuietCoat 118 (from a 1-gallon or 5-gallon bucket). Then you may spray until the can is empty. Refill as necessary.

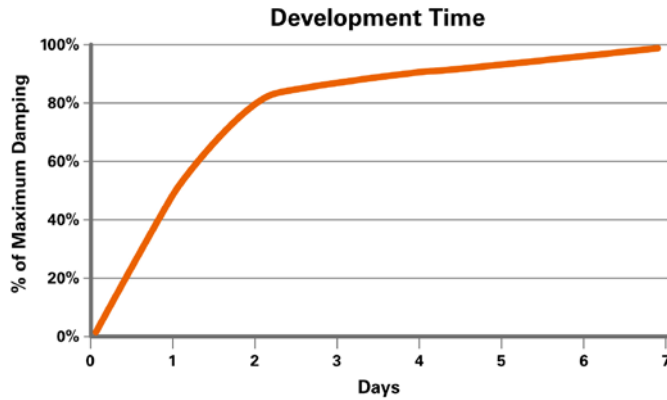
**Drying & Curing Time:** Being water based, QuietCoat 118 needs to dry by evaporation during the cure cycle. Water will evaporate more readily when the following conditions exist: higher temperature, increased air circulation, lowered relative humidity. These conditions along with layer thickness contribute to drying time. Thicker layers require longer drying times. Application of second or successive coats require the previous one to be dry, therefore the goal normally will be to apply as much QuietCoat 118 as possible in each coat keeping in mind the effect on drying time.

Typically, apply the first coat and wait four hours for it to become tack-free. Then, apply a second coat if you wish, and wait four hours for it to become tack-free. Then, if you wish, you may apply a third coat. *Thicker application and more coverage greatly enhance the noise and vibration absorption properties.*



## Development Time

While you can use the treated surface a few hours after the last coat, the vibration absorbing properties will continue to get better for up to one week after the final coat is applied.



**Clean Up & Disposal:** QuietCoat 118 is water based and can be treated the same as any water-based latex paint. Keep a bucket of warm soapy water handy. If you mistakenly brush, roller or spray material where you don't want it, just wipe it off. It takes QuietCoat 118 at least 20 minutes to get tacky, but the quicker you wipe it off the better. Keep in mind that after QuietCoat 118 dries, it is very hard to remove.

For paint brushes and rollers, either wash and keep, or discard. When using a spray gun, put each plastic part in the water as soon as you finish using it. Wash the parts in warm water to remove all material. Do not allow the material to dry in or on the spray gun and its parts. Wipe the tip of the spray gun off with a paper towel dipped in the water. The more care you take cleaning your spray gun the longer it will last.

Dispose used cans and materials in the same manner as latex paint. Be aware of your community's disposal rules. Be kind to the environment – please don't pour excess material into sewers or open water supplies.

PABCO® Gypsum

37851 Cherry Street  
Newark, CA 94560

(800) 797-8159

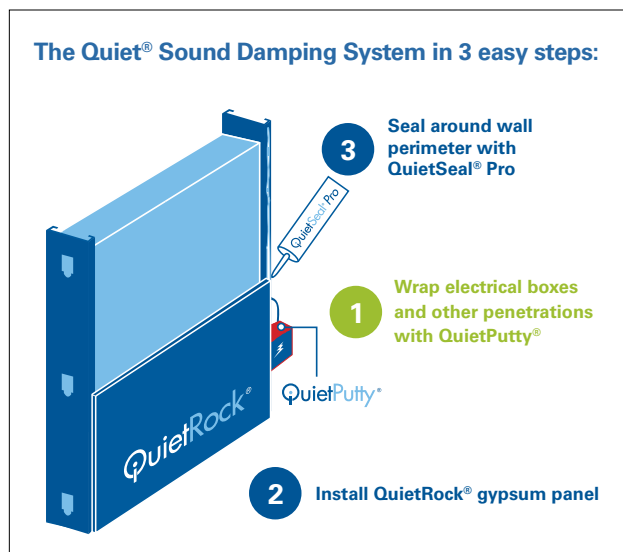
[www.QuietRock.com](http://www.QuietRock.com)





## EASY TO USE acoustical putty

QuietPutty® is a moldable putty designed to maintain the performance of acoustically rated walls with penetrations such as electrical outlets, HVAC ducts, water hookups and cables.\* QuietPutty® is clean, easy to use and requires no tools. Use as part of the Quiet® Sound Damping System for reliable, low cost results.



## QuietPutty Benefits

- Adheres to most construction materials for a high quality seal
- Asbestos free
- Provides a draft and cold smoke seal
- Minimal shrinkage and will not dry out
- Noncorrosive to metal and plastics

## Product Specifications:

<b>Thickness:</b>	0.2" (5mm)
<b>Width:</b>	7.25" (184mm)
<b>Length:</b>	7.25" (184mm)
<b>Weight:</b>	7oz (198g) /pad
<b>Color:</b>	Red
<b>Unit Size:</b>	10 pads/box
<b>Surface Burn:</b>	(ASTM E84) Flame Spread 15, Smoke developed: 10, Classification: A

Visit [www.QuietRock.com](http://www.QuietRock.com) for installation instructions and complete architectural documentation

\* Not recommended for use on penetrations with high temperature equipment or canned light canisters.

The information contained in this document is for general purposes only. Construction practices have an influence on final STC ratings. PABCO® Gypsum cannot guarantee actual STC ratings. Flanking sound patterns, the integrity of the wall, and construction methods factor in effective sound control. QuietPutty® should be stored flat in a dry area to prevent damage to product.

## QUIET® SOUND DAMPING SYSTEM ACCESSORY PRODUCTS

### QuietSeal® Pro

QuietSeal Pro is a high performance, non-hardening acoustical sealant designed to maintain acoustic performance in your walls, floors and ceilings. QuietSeal Pro remains soft long after application to prevent cracking and continues to reduce sound transmission over time. Use QuietSeal Pro and stop noise leaks in your wall, floor, or ceiling assembly. It's easy to use and fits into any standard caulking gun.

Using a standard caulking gun, apply QuietSeal Pro in accordance with good building practices around the perimeter of walls, ceilings, floors, any penetrations and seams not backed by a stud. Assure your assembly is airtight – completely fill gap with QuietSeal Pro.

Applied Thickness	Coverage	VOC
Approx. 1/4" bead	88 Linear feet using a 1/4" bead	Low VOC



### QuietPutty®

QuietPutty® is formulated to maintain the performance of acoustically rated wall assemblies by sealing penetrations including common electrical outlets boxes, phone outlet boxes, electrical switches, HVAC duct, and plumbing hookups.

QuietPutty is a preformed 1/8"x 7"x7" moldable putty pad, so no tools are required for application. Simply adhere the putty manually to back of outlet box or target area and mold around the appliance to seal any potential sound leaks.

Size	Coverage
1/8" thick 7" x 7"	1 pad per single junction box



## OTHER ACOUSTICAL PRODUCTS

### 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 can be applied to drywall or wood (plywood, OBS, MDF, etc) to create a constrain-layer damped lamination in the field. Ideal applications include subfloor laminations, curved walls, coffered ceilings or in situations where sourcing QuietRock® may not be practical.

QuietGlue® Pro is not a construction adhesive. Laminated layers must be mechanically attached in accordance with local building requirements.

Applied Thickness	Coverage	VOC
1/8" bead random pattern	One 28 oz Tube per 4x8 sheet (32 ft²)	Low VOC



### QuietCoat®

QuietCoat® is a leading paintable or sprayable viscoelastic polymer for noise and vibration damping. This is an extensional damping compound for use on steel (iron, galvanized, stainless), aluminum, brass, copper, alloys, plastics, PVC, composites and other nonporous materials.

Fully ROHS Compliant  
Meets the highest industry flammability standards  
Anti-fungal and anti-rust capability

Common uses include: plumbing and sewer pipes, consumer electronics, appliances, factory process and material handling equipment, HVAC, air handling units, ducts, elevators, escalators, vehicles, rail cars,

Applied Thickness	Coverage	VOC
1 to 3 mm total	40-80 ft² per gallon	Low VOC



# QtPro Sound Masking

A cost-effective solution to protect speech privacy and reduce noise distractions.

## QTPRO® OFFERS 3 CONTROL MODULE SIZES ADAPTABLE FOR ANY SPACE

### SMALL SPACES



#### 1 ZONE

covers approximately  
12,000 ft<sup>2</sup>

### MEDIUM SPACES



#### 3 ZONES

covers approximately  
36,000 ft<sup>2</sup>

### LARGE SPACES



#### 6 ZONES

covers approximately  
72,000 ft<sup>2</sup>

## Advantages of Patented QtPro Sound Masking Systems:

- Powered by direct-field Quiet Technology developed to reduce acoustic interference.
- Delivers uniform sound masking by projecting from not through the ceiling.
- Reduces the need for expensive construction or sound blocking materials.
- Each emitter can be installed in less than 15 minutes and in any ceiling type.
- Easy to retrofit into existing workspaces.
- GreenSpec listed and the most energy efficient sound masking system available.

For more information, visit [www.biamp.com/soundmasking](http://www.biamp.com/soundmasking)



QtPro® Systems	Qt100	Qt300	Qt600
<b>Zones</b>	1	3	6
<b>Maximum # of standard Qt Emitters</b>	120	360	720
<b>Approximate Coverage Area</b>	12,000 ft <sup>2</sup>	36,000 ft <sup>2</sup>	72,000 ft <sup>2</sup>
<b>Audio Inputs for music/paging</b>	1	2	2
<b>LCD Control Panel</b>	✓	✓ + network connection	✓ + network connection
<b>Energy Efficient</b>	7 watts	15 watts	27 watts
<b>Mounting</b>	wall mount	✓ + wall or rack mount	✓ + wall or rack mount
<b>Volume by zone &amp; input</b>	✓	✓	✓
<b>Day/Night Ramping</b>		✓	✓
<b>Equalizer</b>		✓	✓
<b>Compatible with Qt Active Emitters</b>		✓	✓



### Qt® Emitters

Small, plug and play individually adjustable emitters, are the backbone of the QtPro sound masking system. Nearly 180 degrees of sound dispersion provides uniform, unobtrusive masking. Can be installed in any ceiling surface including acoustic ceiling tile, beam, drywall, metal, and wood. Emitters are plenum-rated, UL-listed, and comply with UL 2043.



### Qt® Active Emitters

Provides high sound level and a broader frequency range than standard Qt Emitter. A good choice when paging and background music are needed. Similar footprint and cabling infrastructure to standard Qt Emitter.



### Qt® Room Control

Easy to adjust the sound masking levels in patient rooms, private office space, and conference rooms. The mounted control unit features 6 discrete volume level selections including off. Designed to work with any QtPro sound masking system. Can be added to an existing QtPro sound masking installation.

CSMBR-618-2009-EN-R1

Visit [www.biamp.com/soundmasking](http://www.biamp.com/soundmasking) to learn more about the many benefits of our industry-leading sound masking solutions.

# DATA SHEET

## Qt® 100

### SOUND MASKING CONTROL MODULE



The Qt® 100 control module is a sound masking generator, controller and amplifier, with one auxiliary audio input to allow for distribution of audio from a paging controller or (background) music player. The Qt 100 control module is a compact one-zone controller suitable for installations of up to 12,000 square feet (1,115 m<sup>2</sup>). The masking level can be adjusted from the unit's front panel. Auxiliary audio level is set via the front panel.

#### FEATURES

- 1 zone, up to 120 emitters
- 1 audio input for paging or music
- Contact closure integrates with fire alarm systems
- Front panel control with LCD
- Surface mount only
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty
- Manufactured in the U.S.A.
- TAA compliant
- GSA eligible

#### ARCHITECTS & ENGINEERS SPECIFICATION

The controller shall consist of all electronics required for operating a sound masking system from a single accessible location. Systems with distributed electronic packages above ceilings are not acceptable. The controller shall provide one zones and shall be sufficient to generate sound masking, audio control and audio power for up to 12,000 square feet (1,115 m<sup>2</sup>) of coverage. Each audio output shall provide four uncorrelated channels of masking noise to minimize phase interference and hotspots. The complete system shall consume less than 7 watts of power. The unit shall meet all requirements of Underwriters Laboratories, the US and Canadian National Electrical Codes, FCC Part 15, and all pertinent UK and EU codes. The controller shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be 5 years. The controller shall be Qt® 100.

## Qt 100 SPECIFICATIONS

<b>Frequency Response<sup>1</sup></b>		<b>Output Connections:</b>	
<b>Sound Masking:</b>	200Hz to 6.3kHz	<b>Minimum Output Impedance:</b>	2 RJ-45 2Ω (per channel)
<b>Music/Paging:</b>	200Hz to 10kHz	<b>Power Supply</b>	
<b>SPL<sup>1</sup></b>		<b>Operating Voltage:</b>	100-240VAC 50/60Hz
<b>Minimum Masking SPL (@ 1m):</b>	30dBA	<b>Current Draw:</b>	0.6A
<b>Maximum Masking SPL (@ 1m):</b>	60dBA	<b>Output:</b>	24VDC @ 1A
<b>Maximum Music/Paging SPL (@ 1m):</b>	62dBA	<b>Max. Power Consumption (24VDC):</b>	7W
<b>Masking</b>		<b>Input Connector:</b>	Captive Screw Terminal & Coax Power Plug (center pin positive)
<b>Number of Non-Correlated Masking Sources:</b>	4	<b>Included Accessories:</b>	ACT Hole Saw
<b>Number of Masking Zones:</b>	1 (2 cable runs per zone)	<b>Overall Dimensions</b>	
<b>Masking Level Adjustment:</b>	0.5dB steps	<b>Height:</b>	3.5 inches (89mm)
<b>Max Emitter/Device Capacity:</b>	60 Qt Emitters or Room Controls per cable run	<b>Width:</b>	7 inches (179mm)
<b>Max Emitter Cabling Distance:</b>	1000 feet (300m) per cable run	<b>Depth:</b>	0.875 inches (23mm)
<b>Audio Inputs</b>		<b>Weight:</b>	6 oz. (170g)
<b>Input Connector Type:</b>	Captive Screw Terminal	<b>Environmental:</b>	
<b>Number of Inputs:</b>	1 (Stereo or Mono)	<b>Ambient Operating Temperature Range:</b>	40 - 90° F (4 - 32° C)
<b>Input Level:</b>	+4dBu (2VRMS max)	<b>Humidity:</b>	0-95% relative humidity (non-condensing)
<b>Input Level Adjustment:</b>	1dB steps	<b>Altitude:</b>	0-6,600 ft (0-2000m) MSL
<b>Input Impedance:</b>	5kΩ	<b>Compliance:</b>	
<b>Remote Control</b>			FCC Part 15B (USA)
<b>Connector Type:</b>	Captive Screw Terminal		UL and C-UL listed (USA and Canada)
<b>Input Type:</b>	Contact Closure (Normally Open)		CE Marked (Europe)
<b>Number of Inputs:</b>	1		RoHS Directive (Europe)
<b>Output Type:</b>	Logic Status (5VDC)		ETL Listed
<b>Number of Outputs:</b>	1		Green Spec Listed

<sup>1</sup> Specifications based on use of Qt Emitter array and based on published layout practices

## OPTIONAL ACCESSORIES

Description	SKU
Hole Saw ACT	HS-ACT
Hole Saw Drywall	HS-DW
10 ft Plenum-Rated Cable	CC-10- (B=Black / W = White)
25 ft Plenum-Rated Cable	CC-25- (B=Black / W = White)
50 ft Plenum-Rated Cable	CC-50- (B=Black / W = White)
75 ft Plenum-Rated Cable	CC-75- (B=Black / W = White)
100 ft Plenum-Rated Cable	CC-100- (B=Black / W = White)
Room Control (White)	Qt-RC3
Power Supply	PS-4
4-Pack of Qt Emitters, 16 ft cables	E-A-W-16-4 (E-A-B-16-4 for Black)
4-Pack of Qt Emitters, 30 ft cables	E-A-W-30-4 (E-A-B-30-4 for Black)

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biampinfo@biamp.com



+1 503 641 7287



www.biamp.com

CSMDS-603-2006-EN-R1



# DATA SHEET

## Qt® 300

### SOUND MASKING CONTROL MODULE



The Qt® 300 control module is a sound masking generator, controller, third octave band equalizer and amplifier, with two aux audio inputs to allow for distribution of audio from paging controllers and/or (background) music players. The Qt 300 control module is a compact three-zone networkable controller suitable for installations of up to 36,000 square feet (3,345 m<sup>2</sup>). Each zone can be independently adjusted for masking and aux audio levels and spectra. Levels can be adjusted from the unit's front panel or from a remote desktop leveraging the unit's network connectivity and browser-based GUI.

#### FEATURES

- Compatible with Qt Emitters or Qt Active Emitters
- Supports up to 3 zones
- 2 audio inputs for paging and music
- Contact closure integrates with fire alarm systems
- Front panel with LCD
- Panel lock (hardware)
- Auto ramping
- Time-of-day scheduling
- Adjustable equalizer for masking and audio inputs
- 4 non-correlated sound masking audio sources per zone
- Built-in clock with battery backup
- Wall mount bracket included, optional rack mount bracket also available
- Ethernet port
- Web interface control by any web-enabled device
- Third party control API/Ethernet
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty
- Manufactured in the U.S.A.
- TAA compliant
- GSA eligible

#### ARCHITECTS & ENGINEERS SPECIFICATION

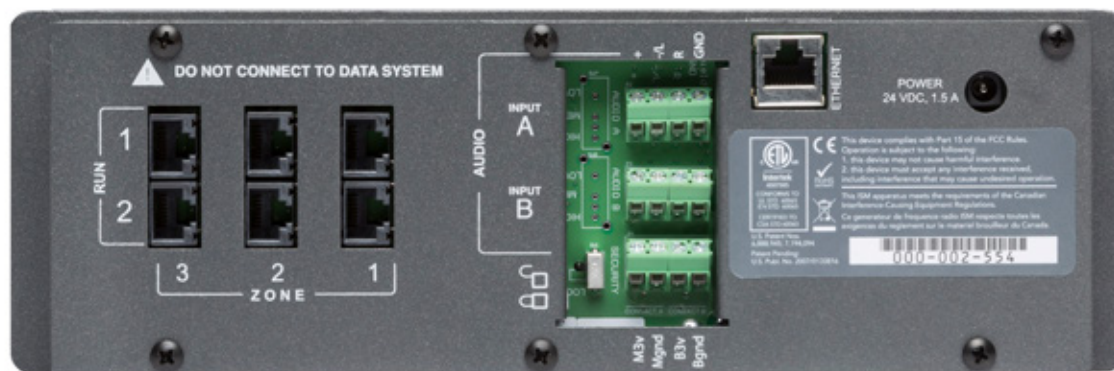
The controller shall consist of all electronics required for operating a sound masking system from a single accessible location. Systems with distributed electronic packages above ceilings are not acceptable. The controller shall permit password protected access for control and monitoring via LAN/browser interface. The controller shall provide three zones and shall be sufficient to generate sound masking, audio control and audio power for up to 36,000 square feet (3,345 m<sup>2</sup>) of coverage. The unit shall be capable of time-of-day masking level control; per-zone settings shall be available for day/night levels and start times, ramping interval, and weekday/Sat/Sun behavior. Each audio output shall provide 4 incoherent channels of masking noise to minimize phase interference and hotspots. The complete system shall consume less than 12 watts of power. The unit shall meet all requirements of Underwriters Laboratories, the US and Canadian National Electrical Codes, FCC Part 15, and all pertinent UK and EU codes. The controller shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be 5 years. The controller shall be Qt® 300.

## Qt 300 SPECIFICATIONS

<b>ACTIVE EMITTERS</b>		<b>Audio Inputs</b>	
<b>Max Emitter/Device Capacity:</b>	50 Qt Active Emitters per cable run	<b>Input Connector Type:</b>	Captive Screw Terminal
<b>Max Emitter Cabling Distance:</b>	800 feet (243m) per cable run	<b>Number of Inputs:</b>	2 (Stereo or Mono)
<b>Frequency Response<sup>1</sup></b>		<b>Input Level:</b>	+4dBu (2VRMS max)
<b>Sound Masking:</b>	200Hz to 6.3kHz	<b>Input Level Adjustment:</b>	1dB steps
<b>Music/Paging:</b>	115Hz to 12kHz	<b>Input Impedance:</b>	5kΩ
<b>SPL<sup>1</sup></b>		<b>Remote Control</b>	
<b>Minimum Masking SPL (@ 1m):</b>	30dBA	<b>Connector Type:</b>	Captive Screw Terminal
<b>Maximum Masking SPL (@ 1m):</b>	55dBA	<b>Input Type:</b>	Contact Closure (Normally Open)
<b>Maximum Music/Paging SPL (@ 1m):</b>	74dBA	<b>Number of Inputs:</b>	2
<b>Equalization</b>		<b>Output Type:</b>	Logic Status (5VDC)
<b>Sound Masking (125Hz - 6.3kHz):</b>	ISO 1/3 Octave Bands	<b>Number of Outputs:</b>	1
<b>Music/Paging (200Hz - 8kHz):</b>	ISO 1/1 Octave Bands	<b>Output Connections:</b>	6 RJ-45
<b>STANDARD EMITTERS</b>		<b>Minimum Output Impedance:</b>	2Ω (per channel)
<b>Max Emitter/Device Capacity:</b>	60 Qt Emitters per cable run	<b>Power Supply</b>	
<b>Max Emitter Cabling Distance:</b>	1000 feet (300m) per cable run	<b>Operating Voltage:</b>	100-240VAC 50/60Hz
<b>Frequency Response<sup>1</sup></b>		<b>Current Draw:</b>	0.6A
<b>Sound Masking:</b>	125Hz to 6.3kHz	<b>Output:</b>	24VDC @ 1.0A
<b>Music/Paging:</b>	200Hz to 10kHz	<b>Max. Power Consumption (24VDC):</b>	15W
<b>SPL<sup>1</sup></b>		<b>Included Accessories:</b>	ACT Hole Saw Wall Bracket
<b>Minimum Masking SPL (@ 1m):</b>	30dBA	<b>Overall Dimensions</b>	
<b>Maximum Masking SPL (@ 1m):</b>	55dBA	<b>Height:</b>	3.5 inches (89mm)
<b>Maximum Music/Paging SPL (@ 1m):</b>	56dBA	<b>Width:</b>	11 inches (279mm)
<b>Equalization</b>		<b>Depth:</b>	3.8 inches (97mm)
<b>Sound Masking (200Hz - 6.3kHz):</b>	ISO 1/3 Octave Bands	<b>Weight:</b>	1.5 lbs (0.68kg)
<b>Music/Paging (200Hz - 8kHz):</b>	ISO 1/1 Octave Bands	<b>Environmental:</b>	
<b>Masking</b>		<b>Ambient Operating Temperature Range:</b>	40 - 90° F (4 - 32° C)
<b>Number of Masking Zones:</b>	3 (2 cable runs per zone)	<b>Humidity:</b>	0-95% relative humidity (non-condensing)
<b>Number of Non-Correlated Masking Sources:</b>	4 per zone	<b>Altitude:</b>	0-6,600 ft (0-2000m) MSL
<b>Masking Level Adjustment:</b>	0.5dB steps	<b>Compliance:</b>	FCC Part 15B (USA) UL and C-UL listed (USA and Canada) CE Marked (Europe) RoHS Directive (Europe) ETL Listed Green Spec Listed

<sup>1</sup> Specifications based on use of Qt Emitters / Qt Active Emitter array and based on published layout practices

## Qt 300 BACK PANEL



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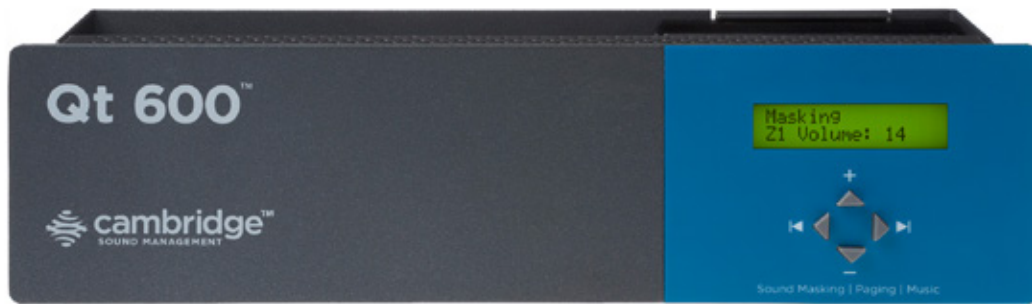
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CSMDS-604-2006-EN-RT

# DATA SHEET

## Qt® 600

### SOUND MASKING CONTROL MODULE



The Qt® 600 control module is a sound masking generator, controller, third octave band equalizer and amplifier, with two aux audio inputs to allow for distribution of audio from paging controllers and/or (background) music players. The Qt 600 control module is a compact six zone networkable controller suitable for installations of up to 72,000 square feet (6,689 m<sup>2</sup>). Each zone can be independently adjusted for masking and aux audio levels and spectra. Levels can be adjusted from the unit's front panel or from a remote desktop leveraging the unit's network connectivity and browser based GUI.

#### FEATURES

- Compatible with Qt Emitters or Qt Active Emitters
- Supports up to 6 zones
- 2 audio inputs for paging and music
- Contact closure integrates with fire alarm systems
- Front panel with LCD
- Panel lock (hardware)
- Auto ramping
- Time-of-day scheduling
- Adjustable equalizer for masking and audio inputs
- 4 non-correlated sound masking audio sources per zone
- Built-in clock with battery backup
- Wall mount bracket included, optional rack mount bracket also available
- Ethernet port
- Web interface control by any web-enabled device
- Third party control API/Ethernet
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty
- Manufactured in the U.S.A.
- TAA compliant
- GSA eligible

#### ARCHITECTS & ENGINEERS SPECIFICATION

The controller shall consist of all electronics required for operating a sound masking system from a single accessible location. Systems with distributed electronic packages above ceilings are not acceptable. The controller shall permit password protected access for control and monitoring via LAN/browser interface. The controller shall provide six zones and shall be sufficient to generate sound masking, audio control and audio power for up to 72,000 square feet (6,689 m<sup>2</sup>) of coverage. The unit shall be capable of time-of-day masking level control; per-zone settings shall be available for day/night levels and start times, ramping interval, and weekday/Sat/Sun behavior. Each audio output shall provide 4 uncorrelated channels of masking noise to minimize phase interference and hotspots. The complete system shall consume less than 27 watts of power. The unit shall meet all requirements of Underwriters Laboratories, the US and Canadian National Electrical Codes, FCC Part 15, and all pertinent UK and EU codes. The controller shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be 5 years. The controller shall be Qt® 600.



## Qt 600 SPECIFICATIONS

<b>ACTIVE EMITTERS</b>		<b>Audio Inputs</b>	
<b>Max Emitter/Device Capacity:</b>	50 Qt Active Emitters per cable run	<b>Input Connector Type:</b>	Captive Screw Terminal
<b>Max Emitter Cabling Distance:</b>	800 feet (243m) per cable run	<b>Number of Inputs:</b>	2 (Stereo or Mono)
<b>Frequency Response<sup>1</sup></b>		<b>Input Level:</b>	+4dBu (2VRMS max)
<b>Sound Masking:</b>	200Hz to 6.3kHz	<b>Input Level Adjustment:</b>	1dB steps
<b>Music/Paging:</b>	115Hz to 12kHz	<b>Input Impedance:</b>	5kΩ
<b>SPL<sup>1</sup></b>		<b>Remote Control</b>	
<b>Minimum Masking SPL (@ 1m):</b>	30dBA	<b>Connector Type:</b>	Captive Screw Terminal
<b>Maximum Masking SPL (@ 1m):</b>	55dBA	<b>Input Type:</b>	Contact Closure (Normally Open)
<b>Maximum Music/Paging SPL (@ 1m):</b>	74dBA	<b>Number of Inputs:</b>	2
<b>Equalization</b>		<b>Output Type:</b>	Logic Status (5VDC)
<b>Sound Masking (125Hz - 6.3kHz):</b>	ISO 1/3 Octave Bands	<b>Number of Outputs:</b>	1
<b>Music/Paging (200Hz - 8kHz):</b>	ISO 1/1 Octave Bands	<b>Output Connections:</b>	12 RJ-45
<b>STANDARD EMITTERS</b>		<b>Minimum Output Impedance:</b>	2Ω (per channel)
<b>Max Emitter/Device Capacity:</b>	60 Qt Emitters per cable run	<b>Power Supply</b>	
<b>Max Emitter Cabling Distance:</b>	1000 feet (300m) per cable run	<b>Operating Voltage:</b>	100-240VAC 50/60Hz
<b>Frequency Response<sup>1</sup></b>		<b>Current Draw:</b>	0.9A
<b>Sound Masking:</b>	125Hz to 6.3kHz	<b>Output:</b>	24VDC @ 1.5A
<b>Music/Paging:</b>	200Hz to 10kHz	<b>Max. Power Consumption (24VDC):</b>	27W
<b>SPL<sup>1</sup></b>		<b>Included Accessories:</b>	ACT Hole Saw Wall Bracket
<b>Minimum Masking SPL (@ 1m):</b>	30dBA	<b>Overall Dimensions</b>	
<b>Maximum Masking SPL (@ 1m):</b>	55dBA	<b>Height:</b>	3.5 inches (89mm)
<b>Maximum Music/Paging SPL (@ 1m):</b>	56dBA	<b>Width:</b>	13.5 inches (343mm)
<b>Equalization</b>		<b>Depth:</b>	3.8 inches (97mm)
<b>Sound Masking (200Hz - 6.3kHz):</b>	ISO 1/3 Octave Bands	<b>Weight:</b>	3.0 lbs (1.4kg)
<b>Music/Paging (200Hz - 8kHz):</b>	ISO 1/1 Octave Bands	<b>Environmental:</b>	
<b>Masking</b>		<b>Ambient Operating Temperature Range:</b>	40 - 90° F (4 - 32° C)
<b>Number of Masking Zones:</b>	6 (2 cable runs per zone)	<b>Humidity:</b>	0-95% relative humidity (non-condensing)
<b>Number of Non-Correlated Masking Sources:</b>	4 per zone	<b>Altitude:</b>	0-6,600 ft (0-2000m) MSL
<b>Masking Level Adjustment:</b>	0.5dB steps	<b>Compliance:</b>	FCC Part 15B (USA) UL and C-UL listed (USA and Canada) CE Marked (Europe) RoHS Directive (Europe) ETL Listed Green Spec Listed

<sup>1</sup> Specifications based on use of Qt Emitters / Qt Active Emitter array and based on published layout practices

## Qt 600 BACK PANEL



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✉ biampinfo@biamp.com

☎ +1 503 641 7287

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CSMDS-605-2006-EN-RT

## acouSTIC™ Water-Based Foam Adhesive (PA-02)

### Product Information and Installation Guide



pinta acoustic acouSTIC™ PA-02 is a general-purpose water-based adhesive used to bond pinta acoustics' melamine foam products to foam, gypsum, wood or other porous surfaces.

#### Technical Details

PA-02 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 – 100°F (4°C – 144°C). Protect from freezing.\* If frozen, completely thaw prior to use. Passes 5 freeze-thaw cycles. Working time is 15 – 120 minutes, full cure in 24 – 172 hours 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; or cause the glue to cure or skin prematurely.

#### Installation

On gypsum board or similar non-porous surfaces (tubes):

- 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 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 – 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 gypsum board, or similar non-porous surfaces (5 gal. pail):

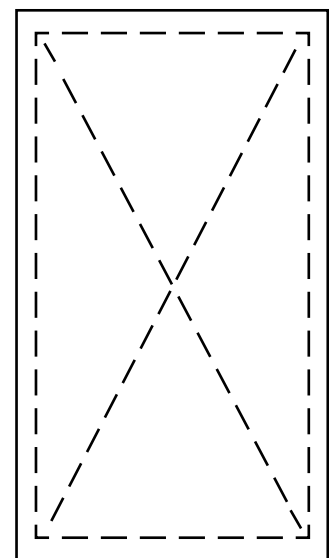
- PA-02 adhesive in pails is slightly thinner and meant to be applied with 3/8" (9.5 mm) nappy rollers or troweled onto surfaces.
- To apply, roll or trowel adhesive to panel and to the surface to be adhered to. Cover the entire surface, leaving 1/2" (8 mm) from the edge of the panel covered.
- When applied to both surfaces, one 5-gallon pail of PA-02 adhesive will cover roughly 240 sq. feet (22.30 sq. meters).
- Firmly press the panel into place. Apply even pressure across the entire surface of the panel.

- Pull the panel away from the surface and allow 30 seconds of open time for 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.

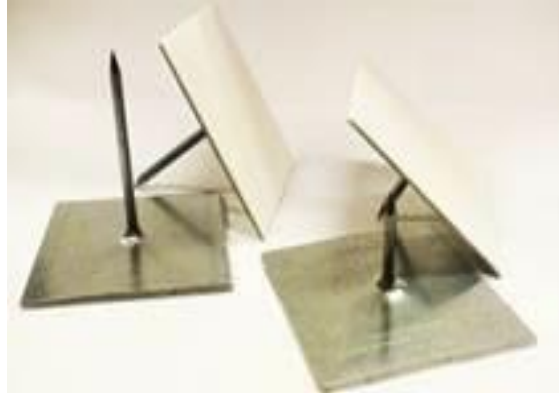
Fig. 1



\*acouSTIC PA-02 high-strength adhesive is water-based and can freeze. It is pinta acoustic's policy to utilize heated delivery trucks when seasonal temperatures are below freezing (November 1 – May 1).

## Impaling Pins

- ✓ 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 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.

