



- Open-cell, fiber-free melamine foam
- Excellent acoustic insulation
- Class 1 fire-rated ASTM E84
- Core material used in SONEX® and other pinta products

willtec®

Product Information

Lightweight, flexible willtec foam excels at heat and sound insulation

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

Withstands extreme temperatures

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

Unique construction meets a range of requirements

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

In addition, pinta has developed acouSTIC, a specially formulated adhesive to be used with wall panels for quick and easy installation.

Handles tough environmental conditions

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

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SONEX® Classic/ SONEX Junior Panels



SONEX One Panel



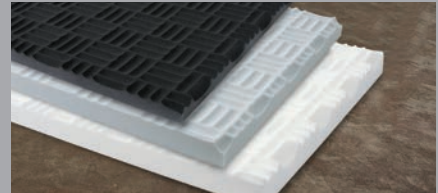
willtec meets ASTM E-84 Class 1 fire rating



SONEX One Baffle



SONEX Valueline Panels



willtec® foam features

- Class 1 fire-rated
- Meets ASTM E84 and UL 1715 requirements
- Does not ignite at temperatures below 1120°F
- Excellent heat insulation properties; no flaming drip
- Very low-density, lightweight and highly flexible
- Excellent sound control characteristics in a wide range of frequencies
- Economical, easy to install and maintain

Flammability

willtec meets the following regulations for flame spread, smoke density, and fuel contribution:

- ASTM E84, Steiner Tunnel Test
 - Natural: Class 1 fire-rated
Flame spread: 5
Smoke Density: 50
 - HPC-coated: Class 1 fire-rated
Flame spread: 15
Smoke density: 100
 - colortec foam: Class 1 fire-rated
Flame spread: 5
Smoke density: 90
- UL 1715, Corner Burn Test
Natural: Passes
colortec: Passes
- UL code 94, electronics
HBF: Passes
HF1: Passes
VO: Passes

Additional tests

willtec meets a variety of other tests to show that it is suitable for a wide variety of installations.

- Smoke Toxicity, New York City
willtec: DOS# 09-500-970317-4001
- Boeing DSS 9739, toxic gas generation willtec: Passes
- UL181, microbial growth willtec: Passes
- ASTM G21, fungus resistance willtec: Passes

Other Products

pinta acoustic, inc. manufactures a broad range of acoustical materials including:

- CONTOUR® Ceiling Tiles
- HARMONI Ceiling Tiles
- WHITELINE® Ceiling Tiles
- SQUARELINE® Metal Ceiling Tiles
- SONEX® Baffles and Panels
- FABRITEC Wall Panels
- PHONSTOP™ Ceiling and Wall Tiles
- PROSPEC® Barriers, Foams and Composites

Physical Data—willtec® foam

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

Sound Absorption

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

Examples of acoustic data of various SONEX Panels made from willtec. These are not all the products available. This is just a sampling. All data is derived from ASTM C423-90a with Type A or B mounting. Contact us for acoustical data of other products.

For color charts and samples, contact pinta acoustic, inc.