

Memtech Acoustical, LLC

Your Source for Noise Control Solutions

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Product Information 

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willtec Sheets

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

Applications:

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



Unique construction meets a range of requirements

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

Handles tough environmental conditions

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

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.

Physical Data—willtec® foam

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

Sound Absorption

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