



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

## willduct Panels

### Product Information

Easy to cut, trim and install in HVAC ductwork, pinta'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 Hypalon® coating that protects the surface of the panels.

willtec foam's open-cell structure enhances its ability to 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.

#### Product Features

- Standard panels are available in 24" x 24", 48" x 48" and 48" x 96" sizes with a standard thickness of one inch
- Resistant to mold and mildew that can reduce IEQ
- willtec foam passes UI 181 for mold growth and ASTM G21 for fungus resistance
- Fiber-free material also meets ASTM E84 Class 1 fire rating

Fast and easy installation



willtec® foam meets Class 1 fire resistance rating



willduct used in ductwork of a manufacturing facility



### Applications

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

### Installations

- Attaches to metal ducts using mechanical pins and/or pinta'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

### 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
- BIOLINE® Wood Ceiling Tiles
- SONEX® Baffles and Panels
- SONEX Clean Baffles, Panels and Ceiling Tiles
- FABRITEC Wall Panels
- PHONSTOP™ Ceiling and Wall Tiles
- WHISPERWAVE™ Panels, Baffles, Ceiling Clouds and Awnings
- PROSPEC® Barriers, Foams and Composites
- PROSPEC Decibel Drop™ Viscoelastic Damping Compound
- pinta Ceiling Grid Systems

### Physical Data—willtec foam

Material	Open-cell melamine-based foam
Density	0.5 to 0.7 lbs./cubic ft. (ASTM D3574-77)
Long-Term Service Temperature	302 degrees F
Air Erosion Evaluation	Complies with requirements of UL 181, section 16
Fire Resistance	Class 1 per ASTM E 84 (all finishes) and NFPA 255 Meets requirements of UL 181, section 9 burning test Meets UL 1715 (willtec natural)
Flame Spread per ASTM E 84	Natural: 5 Hypalon®-coated: 25
Smoke Density per ASTM E 84	Natural: 50 Hypalon-coated: 65
Fungus Resistance	Rating #0 per ASTM G21
Mold Growth	Passes UL 181 section 11
Heat Conductivity	K factor = 0.24 at 50 degrees F, R value = 4.2
Finishes	Natural grey, Hypalon-coated

### Sound Absorption

Finish	Thickness	Coefficients per ASTM C423-90a							Mounting Type
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NCR	
Natural	1"	0.05	0.18	0.53	0.85	0.95	1.00	0.65	A
Hypalon-coated	1"	0.07	0.25	0.71	1.06	1.10	1.00	0.80	A

### Sound Absorption

Product/Thickness Flow	Flow (FPM)	PD (in w.c.)	Insertion Loss (dB/ft) per ASTM E477-99							
			63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
willduct, natural/1" 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
willduct, natural/1" Reverse Flow	2500	0.148	0.00	0.04	0.40	2.00	4.28	2.78	2.32	2.22
	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
willduct, Hypalon-coated/1" Forward Flow	2500	0.148	0.00	0.20	0.69	2.44	4.39	2.75	2.31	1.91
	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
willduct, 1" Reverse Flow	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
	1000	0.000	0.15	0.22	0.57	2.38	4.50	2.77	2.36	2.15
willduct, Hypalon-coated/1" Reverse Flow	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