

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
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	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" (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
WILLDUCT, natural /1" (25 mm) reverse flow	0	0.000	0.00	0.21	0.52	2.25	4.37	2.55	2.29	2.12
	1000	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
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
WILLDUCT, /1" (25 mm) Hypalon-coated /1" (25 mm) forward flow	0	0.000	0.15	0.22	0.57	2.38	4.50	2.77	2.36	2.15
	1000	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

>> 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