

Quiet Liner™

Recycled Cotton Acoustical Liner

DESCRIPTION

Quiet Natural Fiber Liner is a thermally bonded HVAC insulation that offers superior acoustic and thermal performance. Made from natural fibers, Quiet Liner contains no fiberglass and does not itch or cause skin irritation. The fibers used to manufacture Quiet Liner offer excellent sound absorption properties. The air stream surface of Quiet Liner is overlaid with a durable, fire-resistant black facing providing additional strength to the product. Both the insulation and the facing are treated with an EPA registered anti-microbial agent.

APPLICATIONS

Quiet Natural Fiber Liner is used primarily as an acoustical liner designed for HVAC sheet metal ducts to absorb unwanted noise from multiple sources. Quiet Liner also reduces heat gain or loss. Quiet Natural Fiber Liner contains no harmful irritants and is safe to handle and install.

FEATURES & BENEFITS

- Excellent noise absorption
- Class A Fire Rated
- Reduces heat loss/gain
- No formaldehyde
- Resists microbial grow
- Low air resistance
- No itch or skin irritation



Acoustical Performance							
Sound Absorption was tested in accordance with ASTM C 423 using a Type A mounting per ASTM E 795.							
PRODUCT	ABSORPTION COEFFICIENTS@ OCTAVE BAND FREQUENCIES (Hz)						
Thickness Inch (mm)	125	250	500	1000	2000	4000	NRC
1 (25)	.07	.33	.72	.99	.93	.96	.75

Physical Properties		
PROPERTIES	PERFORMANCE	TEST METHOD
Operating Limits Temperature Velocity	Maximum 250° (121°C) 5000 fpm	ASTM C411 ASTM C1071*
Surface Burning Characteristics (Fire Hazard Classification)	Flame Spread Max: 25 Smoke Developed Max:50 Class A/Class 1	ASTM E84 UL 723 NFPA 255
Corrosion Resistance	Pass - Non-Corrosive	ASTM C739
Fungi Resistance	Pass - No Growth	ASTM G21 ASTM C1338 ASTM C739
Bacteria Resistance	Pass - No Growth	ASTM G22
Water Vapor Absorption	Less than 1% by Weight	ASTM C1104

*While not passing It is our interpretation that ASTM C 1071, Section 12.7 does not apply as it refers to glass fiber.

Standard Available Sizes				
THICKNESS	DENSITY	WIDTH	LENGTH	SQ. FT. ROLL
1/2"	3.0	48"	100'	400
1"	1.5	48"	100'	200
1-1/2"	1.5	48"	25'	100
2"	1.5	48"	25'	100

Custom Sizes			
THICKNESS	DENSITY	WIDTH	LENGTH
1/2"	3.0	35" - 60"	100'
1"	1.5	35" - 60"	50'
2"	1.5	35" - 60"	25'

Product Compliances	
Quiet Natural Fiber Liner has the physical properties that regularly meet the requirements of the following current specifications, standards, and codes.	
FIRE SAFETY STANDARDS	
NFPA 90A	Installation of Air Conditioning and Ventilating Systems
NFPA 90B	Installation of Warm Air Heating and Air Conditioning System
BUILDING CODES	
ICBO	International Conference of Building Officials
BOCA	Building Officials and Code Administrators
CABO	Council of American Building Officials
SBCCI	Southern Building Code Congress International

Thermal Performance							
Tested in accordance with ASTM C 518							
PRODUCT		K-VALUE		C-VALUE		R-VALUE	
Thickness*							
Inch (mm)		Btu•in/(h•ft²•°F)	W/(m²•°C)	Btu/(h•ft²•°F)	W/(m²•°C)	R	(m²•°C)/W
1/2	(13)	.25	.036	.50	2.84	2.0	.35
1	(25)	.25	.036	.25	1.42	4.2	.74
1-1/2	(38)	.25	.036	.17	0.97	6.0	1.06
2	(51)	.25	.036	.13	0.74	8.0	1.41

• Thermal conductance (C) and resistance (R) values are derived from the material thermal conductivity (k) value. • 1 Inch Liner actual manufactured thickness = 1.05 inch.



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