



The Green Products Company

"Building A Greener Tomorrow!"

A DIVISION OF ACOUSTICAL SURFACES, INC.

123 Columbia Court North ■ Suite 201 ■ Chaska, MN 55318
 (952) 448-5300 ■ Fax (952) 448-2613 ■ (800) 708-0517

Email: sales@thegreenproductscompany.com
 Visit our Website: www.thegreenproductscompany.com



QUIET LINER

GREEN QUALITIES:

- 100% recyclable when returned to the manufacturer
- reduces heat loss/gain of air ducts
- made from recycled denim fabric diverted from landfill
- Cotton is a rapidly renewable resource
- Low Voc's • No irritants
- Use facilitates compliance of ASHRAE 90.1-1999

CERTIFICATIONS/ PERFORMANCE RATING

- Class A Fire Rating – ASTM E 84
- Environmental Specification #1350

DESCRIPTION:

Quiet Natural Fiber Liner (Patent Pending) 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.

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USES:

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.

PRODUCT DATA:

Sound Absorption Coefficients:

	Mount	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
1" 1.5lb./cf.	A	.07	.33	.72	.99	.99	.96	.75
1/2" 1.5lb./cf.	A	.00	.11	.26	.54	.70	.83	.40
2" 1.5lb./cf.	A	.35	.94	1.32	1.22	1.06	1.03	1.15
1 1/2" 1.5lb./cf.	A	.07	.30	.86	1.10	1.05	1.03	.85

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PRODUCT DATA CONT'D

Physical Properties		
PROPERTIES	PERFORMANCE	TEST METHOD
Operating Limits Temperature Velocity	Maximum 250° (121°C) 5000 fpm	ASTM C 411 ASTM C 1071
Surface Burning Characteristics (Fire Hazard Classification)	Flame Spread Max: 25 Smoke Developed Max: 50 Class A / Class 1	ASTM E 84 UL 723 NFPA 255
Corrosion Resistance	Pass – No Growth	ASTM G 21 ASTM C 1338 ASTM C 739
Bacteria Resistance	Pass – No Growth	ASTM G 22
Water Vapor Absorption	Less Than 1% By Weight	ASTM C 1104

Product Compliance's
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 C518							
PRODUCT		K-VALUE		C-VALUE		R-VALUE	
Thickness							
Inch	(mm)	Btu•in/(h•ft ² •°F)	W/(m•°C)	Btu•in/(h•ft ² •°F)	W/(m•°C)	R	W/(m•°C)
1/2	(13)	.25	.036	.50	2.84	2.0	.35

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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

Standard Available Sizes							
DENSITY	THICKNESS		LENGTH		WIDTH		
	Inch	(mm)	Ft.	(m)	Inch	(mm)	Sq. Ft. Roll
3.0	1/2	(13)	100	(30.48)	35-60	(889-1524)	400
1.5	1	(25)	50	(15.24)	35-60	(889-1524)	200
1.5	2	(51)	25	(7.62)	47-48	(889-1524)	100