



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

123 Columbia Court North • Suite 201 • Chaska, MN 55318

(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: sales@acousticalsurfaces.com

Visit our Website: www.acousticalsurfaces.com

We Identify and S.T.O.P. Your Noise Problem

QUIET LINER™

RECYCLED COTTON ACOUSTICAL LINER



- **Excellent Noise Absorption**
- **Class A Fire Rated**
- **Reduces Heat Loss/Gain**
- **No Formaldehyde**
- **Resists Microbial Growth**
- **Low Air Resistance**
- **No Itch or Skin Irritation**

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.

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.

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 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 – Non Corrosive	ASTM C 739
Fungi 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

*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	LENGHT	SQ. FT. ROLL
1/2"	3.0	48"	100'	400
1"	1.5	48"	50'	200
2"	1.5	48"	25'	100

Custom Sizes			
THICKNESS	DENSITY	WIDTH	LENGHT
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/(m•°C)	Btu/(h•ft²•°F)	W/(m²•°C)	R (m²•°C)/W
1/2	(13)	.25	.036	.50	2.84	2.0
1	(25)	.25	.036	.25	1.42	4.2
1-1/2	(38)	.25	.036	.17	0.97	6.0
2	(51)	.25	.036	.13	0.74	8.0

• 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.

- Soundproofing Products • Sonex™ Ceiling & Wall Panels • Sound Control Curtains • Equipment Enclosures • Acoustical Baffles & Banners • Solid Wood & Veneer Acoustical Ceiling & Wall Systems
- Professional Audio Acoustics • Vibration & Damping Control • Fire Retardant Acoustics • Hearing Protection • Moisture & Impact Resistant Products • Floor Impact Noise Reduction
- Sound Absorbers • Noise Barriers • Fabric Wrapped Wall Panels • Acoustical Foam (Egg Crate) • Acoustical Sealants & Adhesives • Outdoor Noise Control • Assistive Listening Devices
- OSHA, FDA, ADA Compliance • On-Site Acoustical Analysis • Acoustical Design & Consulting • Large Inventory • Fast Shipment • No Project too Large or Small • Major Credit Cards Accepted