



physical properties:

	PERFORMANCE	TEST METHOD
Operating Limits Temperature	Maximum: 250° (121° C)	ASTM C 411
Velocity	5000 fpm	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
Bacteria Resistance	Pass – No Growth	ASTM G 22

product compliances:

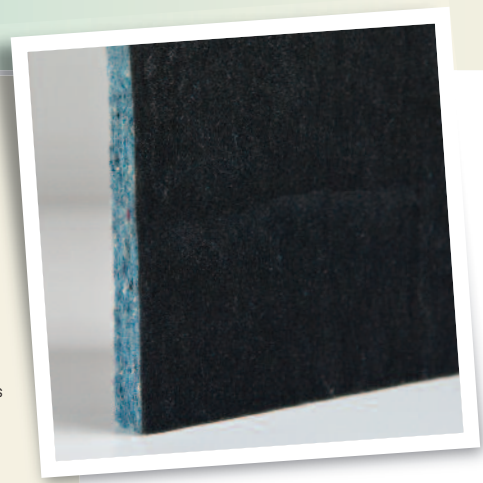
Natural Fiber Duct Liner has the physical properties that regularly meet the requirements of the following current specifications, standards and codes.

FIRE SAFETY STANDARDS

- NFPA 90A Installation of Air Conditioning and Ventilating Systems
- NFPA 90B Installation of Warm Air Heating and Air Conditioning Systems

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:

THICKNESS		K-VALUE		C-VALUE		R-VALUE	
inches	mm	BTU • ln/(h • ft ² • °F)	W/(m • °C)	BTU • ln/(h • ft ² • °F)	W/(m • °C)	R	(m ² • °C)/W
1/2	13	.26	.037	.52	2.95	2.0	.36
1	25	.26	.037	.26	1.48	4.0	.72
1-1/2	38	.26	.037	.17	.97	6.0	1.08
2	51	.26	.037	.13	.74	8.0	1.44

Tested in accordance with ASTM C 518
* Thermal Conductance (C) and Thermal Resistance (R) values are derived from the material Thermal Conductivity (K) value

acoustical performance:

THICKNESS		ABSORPTION COEFFICIENTS @ OCTAVE BAND FREQUENCIES (Hz)						
inches	mm	125	250	500	1000	2000	4000	NRC
1	25	.07	.33	.72	.99	.93	.96	.75

Sound Absorption was tested in accordance with ASTM C 423 using a Type A mounting per ASTM E 795

standard available sizes:

DENSITY	THICKNESS		LENGTH		WIDTH	
	inches	mm	feet	m	inches	mm
3.0	1/2	13	100	30.48	47 – 59	1,194 – 1,499
1.5	1	25	50	15.24	47 – 59	1,194 – 1,499
1.5	2	51	25	7.62	47 – 59	1,194 – 1,499

Natural Fiber Duct Liner

- Excellent Noise Absorption
- Low Air Resistance
- Resists Microbial Growth
- No Itch or Skin Irritation

Bonded Logic Natural Fiber Duct Liner for use in HVAC systems is made from post consumer recycled denim that is thermally bonded to create a high performance insulation.

Natural Fiber Duct Liner offers superior sound absorption and energy saving thermal performance, while contributing to healthy indoor air quality. The air stream surface of the Natural Fiber Duct Liner is overlaid with a durable and fire-resistant black facing that provides additional strength to the product, minimizing the potential for fiber presence in the airstream.

Natural Fiber Duct Liner contains no fiberglass and does not pose any VOC or off-gassing concerns. The insulation and the facing are treated with a non-toxic solution that actively inhibits the growth of mold, mildew, bacteria, and fungi. This same treatment also acts as an excellent fire retardant, giving Natural Fiber Duct Liner a Class-1 Fire Rating.

USES: Natural Fiber Duct Liner is used primarily as an acoustical liner designed for HVAC sheet metal ducts to absorb unwanted noise from multiple sources and reduce heat gain or loss.