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Textile Duct Liner

Product Specifications and Key Features

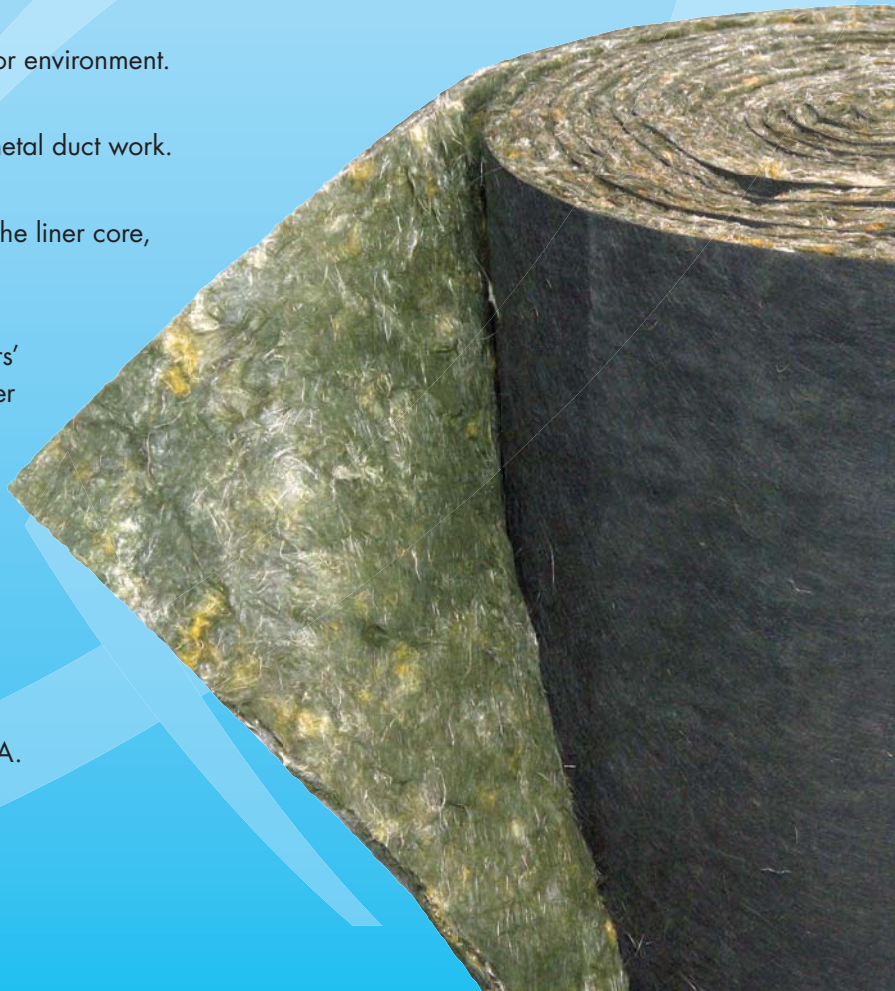
QuietFlex® Textile Duct Liner is a black mat faced and edge coated liner made from continuous textile-type glass fibers bonded with thermosetting resin. A tough, durable black facing is applied during the manufacturing process to insure a strong, long lasting bond between the base blanket and the facing.

Uses

QuietFlex® Textile Duct Liner is used as a lining for sheet metal ducts in HVAC systems. Its primary use is to enhance environmental quality by absorbing unwanted noise within the sheet metal duct, and increasing indoor comfort and energy efficiency by decreasing heat loss or gain through the duct walls.

Advantages

- **Sound Absorption**
Helps reduce unwanted noise created by the air ventilation system.
- **Low Thermal Conductivity**
Creates a more efficient and comfortable indoor environment.
- **Energy Efficient**
Saves energy compared to uninsulated sheet metal duct work.
- **Edge Coated**
Black edge coating is applied to the edges of the liner core, assuring coverage of the leading edges.
- **Fabrication and Installation**
This product is designed to make the contractors' installation process fast and easy through higher tensile strengths from larger glass fibers so that the product can adhere to the walls of the duct consistently. This type of construction provides a simple and easy installation within the sheet metal duct.
- **Resistant to Bacterial and Fungal Growth**
In accordance with ASTM C 1071.
- **Easy to Clean and Maintain**
Should be maintained in accordance to NAIMA.
- **Specification Compliance**
ASTM C 1071, Type I
ASTM G 21 and G 22
NFPA 90A and 90B



Physical Properties

PROPERTY	METHOD OF TESTING	VALUE
Maximum Operating Temperature	ASTM C 411	350° F (177° C)
Maximum Air Velocity	UL 181 Air Erosion Test – ASTM C1071	6000 FPM (30.5 m/sec)
Flame Spread Index	ASTM E 84	Less than 25
Smoke Developed Index	ASTM E 84	Less than 50
Thermal Resistance	ASTM C 518	See Table
Water Vapor Sorption	ASTM C 1104	Less than 1% By weight
Microbial Growth	ASTM C 1338, G 21, G 22	Does not support the growth of Mold, Fungi, and Bacteria
Corrosion Resistance (Steel Only)	ASTM C 665	Pass
Limited Combustible	NFPA	Less than 3500 Btu/lb
Odor	ASTM C 1304	Pass
Air Erosion	ASTM C 1071 / UL 181	2000 FPM and 6000 FPM (tested at 57 MPH and 170 MPH)
Sound Absorption	ASTM C 423	See Table

Thermal Values

K Thermal Conductivity | C Conductance | R Resistance (ASTM C 518)

NOMINAL THICKNESS*		DENSITY		THERMAL CONDUCTIVITY (K)		C-VALUE		R-VALUE	
Inch	mm	pcf	kg/m ³	Btu-in/hr/ft ² /°F	W/m/°K	Btu/hr/ft ² /°F	W/m ² /°K	hr/ft ² /°F/Btu	m ² /°K/W
0.50	13	2.0	32	0.26	0.038	0.48	2.70	2.1	0.37
1.00	25	1.5	24	0.30	0.044	0.30	1.72	3.3	0.58
1.00	25	2.0	32	0.26	0.038	0.24	1.35	4.2	0.74
1.50	38	1.5	24	0.30	0.043	0.20	1.14	5.0	0.88
1.50	38	2.0	32	0.27	0.039	0.17	0.95	6.0	1.06
2.00	51	2.0	32	0.27	0.038	0.12	0.71	8.0	1.41

* Actual thicknesses are 0.55" (nominal 0.5"), 1.1" (nominal 1.0", 2.0 pcf), 1.6" (nominal 1.5", 2.0 pcf), and 2.1" (nominal 2.0")

Acoustical Value (SOUND ABSORPTION COEFFICIENTS, 1/3 OCTAVE BANDS (ASTM C 423, TYPE A MOUNTING))

NOMINAL THICKNESS		DENSITY		ABSORPTION COEFFICIENTS – SABINS/FT ²						
Inch	mm	pcf	kg/m ³	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC*
0.50	13	2.0	32	0.05	0.09	0.23	0.48	0.61	0.66	0.35
1.00	25	1.5	24	0.24	0.31	0.46	0.66	0.77	0.81	0.55
1.00	25	2.0	32	0.21	0.34	0.57	0.84	0.92	0.83	0.65
1.50	38	1.5	24	0.21	0.51	0.71	0.87	0.92	0.87	0.75
1.50	38	2.0	32	0.37	0.57	0.83	1.00	1.01	0.92	0.85
2.00	51	2.0	32	0.42	0.73	1.03	1.12	0.98	0.90	0.95

* Noise Reduction Coefficient

WARNING!!!

Textile glass fibers are used to manufacture this fiberglass insulation product. Handling, installing, or removing the product may result in some fiberglass contact. Users of this product are therefore advised to wear appropriate personal protective equipment so as not to experience skin, eye, or respiratory irritation. Gloves and eye protection, long sleeved, loose fitting clothing are recommended when installing or otherwise handling the product. Avoid breathing fiberglass dust and avoid contact with skin or eyes. A NIOSH approved (N95 or higher) disposable or reusable dust respirator properly fitted is recommended whenever the product is handled. Respiratory protection is mandatory when the dust levels in the workplace exceed OSHA permissible exposure limits or if worker irritation occurs. Work clothes should be washed separately and the washer rinsed after use.

FIRST AID MEASURES

If dust gets into eyes flush eyes with water to remove the fiber dust. If symptoms persist seek medical attention. Fibers can be removed by washing the skin with soap and warm water after handling this product. Further product safety information is available from your employer. The Material Safety Data Sheet is available from your distributor, directly from Quietflex or on the Quietflex website www.quietflex.com.



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