

**LinaTex™**  
Textile Fiber Duct Liner

**Description**

LinaTex is a flexible duct liner made from continuous glass filament fibers bonded with a thermosetting resin. The airstream surface is protected with a black, high density glass mat which provides a tough, damage-resistant surface.

**Factory-Applied Edge Coating**

Edge coating is factory applied to the edges of the liner core, assuring coverage of the leading edges per NAIMA/SMACNA requirements. Shop fabrication cuts may be coated with the SuperSeal® Duct Butter and Edge Treatment products (refer to publication AHS-202).

**Uses**

LinaTex is specifically designed for lining sheet metal ducts in air conditioning, heating and ventilating systems.

**General Properties**

Operating temperature (max.) - ASTM C 411	250°F (121°C)
Air velocity (max.) - ASTM C 1071	5000 fpm (25.4 m/sec)
Fungi resistance - ASTM C 1338	Does not breed or promote
Fungi resistance - ASTM G 21	No growth
Bacteria resistance - ASTM G 22	No growth

**Standard Thicknesses and Packaging**

Thickness	Type	in	mm
150		1, 1½	25, 38
200		½	13
300		½, 1	13, 25
Roll Width*	in	mm	
	35 to 36	889 to 914	
	44 to 48	1118 to 1219	
	56 to 60	1422 to 1524	
Roll Length**	lineal feet	lineal meters	
	50	15	
	100	31	
	200	61	

\* Available in ¼" (6.4 mm) increments. \*\* Check with your Regional Sales Office.

**Surface Burning Characteristics**

LinaTex meets the Surface Burning Characteristics and Limited Combustibility of the following standards:

Standard/Test Method	Maximum Flame Spread Index	25
• ASTM E 84	Maximum Smoke Developed Index	50
• NFPA 90A and 90B		

**Specification Compliance**

- ASTM C 1071, Type I
- ASHRAE 62
- SMACNA Application Standards for Duct Liners
- NAIMA Fibrous Glass Duct Liner Installation Standard
- State of Washington Building Services Department requirements for emissions of total volatile organic compounds (TVOC) and formaldehyde (CHOH) in accordance with ASTM D 5116



**Advantages**

**Improves Indoor Building Environment.** LinaTex improves indoor environmental quality by helping to control both temperature and sound.

**Absorbs Disturbing Sound.** Duct-transmitted noise, such as crosstalk and sound energy from air movement and mechanical equipment is noticeably reduced.

**Conserves Energy.** The unique glass fiberization process used in the manufacture of LinaTex provides very good thermal properties.

**Will Not Support Microbial Growth.** The glass mat is treated with a protective agent to protect it against potential growth of fungus and bacteria. The protective agent is EPA registered for use in HVAC applications, and designed to last the life of the system.

LinaTex duct liner meets all requirements of ASTM C 1071 for fungi and bacterial resistance. Tests were conducted in accordance with ASTM C 1338, ASTM G 21 (fungi testing), and ASTM G 22 (bacteria resistance testing). Detailed information is available in Johns Manville fact sheet HSE-103FS.

Note: As with any type of surface, microbial growth may occur in accumulated duct system dirt, given certain conditions. This risk is minimized with proper design, filtration, maintenance and operation of the HVAC system.

**Withstands High Velocity.** LinaTex has been tested to the recommended maximum velocity of 5000 fpm (25.4 m/sec) per ASTM C 1071. Fiber erosion test results were determined using the Isokinetic Sampling Method described in JM Fiber Erosion Testing Fact Sheet HSE-133FS.

**Cleanability.** If HVAC system cleaning is required, the airstream surface may be cleaned with industry-recognized dry methods. See the North American Insulation Manufacturers Association (NAIMA) "Cleaning Fibrous Glass Insulated Air Duct Systems."

**Easy to Fabricate.** LinaTex is light in weight, very tough, and easy to handle. Clean, even edges can be accurately cut with regular shop tools.

# LinaTex™

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### Thermal Performance

Type	Thickness		R-Value		Conductance	
	in	mm	(hr•ft <sup>2</sup> •°F)/Btu	m <sup>2</sup> •°C/W	Btu/(hr•ft <sup>2</sup> •°F)	W/m <sup>2</sup> •°C
300	1/2	13	2.6	0.45	0.38	2.16
300	1	25	4.2	0.74	0.24	1.36
200	1/2	13	2.4	0.42	0.41	2.33
150	1	25	3.7	0.65	0.27	1.53
150	1 1/2	38	5.5	0.97	0.18	1.02

R-Value and Conductance are calculated from the material thermal conductivity tested in accordance with ASTM C 518 at 75°F (24°C) mean temperature.

### Sound Absorption Coefficients (Type "A" Mounting)

Type	Thickness		Sound Absorption Coefficient at Frequency (Cycles per Second) of						
	in	mm	125	250	500	1000	2000	4000	NRC
300	1/2	13	0.03	0.14	0.30	0.55	0.72	0.84	0.45
300	1	25	0.08	0.27	0.62	0.86	0.92	0.91	0.65
200	1/2	13	0.06	0.13	0.28	0.52	0.71	0.74	0.40
150	1	25	0.09	0.24	0.50	0.70	0.86	0.87	0.60
150	1 1/2	38	0.18	0.37	0.68	0.90	1.02	0.93	0.75

Coefficients were tested in accordance with ASTM C 423 and ASTM E 795.

### Recycled Content

Type	Thickness		Recycled Content (%) <sup>*</sup> Post Industrial
	in	mm	
300	1/2	13	66
300	1	25	83
200	1/2	13	69
150	1	25	72
150	1 1/2	38	75

<sup>\*</sup> Average values



717 17th St.  
Denver, CO 80202  
(800) 654-3103  
specJM.com

### North American Sales Offices, Insulation Systems

**Eastern Region**  
P.O. Box 158  
Defiance, OH 43512  
(800) 334-2399  
Fax: (419) 784-7866

**Western Region & Canada**  
P.O. Box 5108  
Denver, CO 80217  
(800) 368-4431  
Fax: (303) 978-4661

The physical and chemical properties of LinaTex™ Textile Fiber Duct Liner listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Regional Sales Office nearest you to assure current information. **All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions including Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions, Limited Warranty and Limitation of Remedy, and information on other Johns Manville thermal insulations and systems, call (800) 654-3103.**