



AKOUSTI-LINER® is a flexible duct liner providing both thermal and acoustical insulation. It is manufactured from flame attenuated glass fibres bonded with a thermosetting binder. The air stream surface, faced with a black coated mat bonded to the black fibreglass substrate, contains a water repellent EPA registered anti-microbial coating that reduces the potential of microbial growth that may affect this product. AKOUSTI-LINER® is offered with or without edge coating to seal fibres.

USES

AKOUSTI-LINER® is a durable, flexible liner used extensively in flat and irregular shaped ductwork.

AVAILABILITY

Manufactured dimensions are listed below. Please check with your market manager for information on other thicknesses, widths, and lengths.

THICKNESS		WIDTH		ROLL LENGTH	
1/2"	13 mm	24" to 96"	610 to 2438 mm	100'	30.5 m
1"	25 mm	24" to 96"	610 to 2438 mm	50', 100'	15.2 m, 30.5 m
1 1/2"	38 mm	24" to 96"	610 to 2438 mm	50'	15.2 m
2"	51 mm	24" to 96"	610 to 2438 mm	50'	15.2 m

PRODUCT FEATURES

ODOUR EMISSION (ASTM C665)
Absence of any detectable odour

WATER VAPOUR SORPTION (ASTM C1104)
Less than 0.5% by volume, less than 3.5% by weight

AIR FLOW CHARACTERISTICS (ASTM C1071)
Air velocity rating 6,000 ft/min (30.5 m/s)

BACTERIA RESISTANCE (ASTM G22)
Does not breed or promote growth

FUNGI RESISTANCE (ASTM C1338, G-21)
Does not breed or promote growth

HOT SURFACE PERFORMANCE (ASTM C411)
Operating temperature limit: Max 250°F (121°C)

CORROSION RESISTANCE (ASTM C665)
Will not cause corrosion

WATER REPELLENCY RATING
(INDA IST 80.6-95) Rating 3

CONTRACTOR:

JOB NAME:

DATE:

Manson Insulation Inc.

3000 Matte Blvd Brossard, QC J4Y 2H5 Canada

T 450.659.9101 F 450.659.4715

www.isolationmanson.com



AKOUSTI-LINER®

Fiberglass Duct Liner Insulation

Temperature Limit: 250°F (121°C)



SPECIFICATION COMPLIANCE

FIRE HAZARD CLASSIFICATION
(UL 723, CAN/ULC-S102M, ASTM E84, NFPA255)
Flame Spread Index not exceeding 25 and Smoke Developed Index not exceeding 50

NFPA 90B
Standard for the Installation of Warm Air Heating and Air-Conditioning Systems

ASTM C1071
Standard specification for Thermal and Acoustical Insulation (Glass, Fibre, Duct Lining Material)

CITY OF LOS ANGELES #RR-8319
CITY OF NEW YORK MEA #23-91-M
CANADIAN COAST GUARD #G1-107
CAN CGSB.11-92

NFPA 90A
Standard for the Installation of Air-Conditioning and Ventilating Systems

ACOUSTICAL PERFORMANCE (ASTM C423 • A MOUNTING)	THICKNESS		FREQUENCY (Hz)						
	in	mm	125	250	500	1000	2000	4000	NRC
1/2"	13	0.01	0.12	0.35	0.64	0.79	0.91	0.45	
1"	25	0.05	0.32	0.71	0.92	1.02	1.04	0.75	
1 1/2"	38	0.13	0.48	0.91	1.00	1.04	1.04	0.85	
2"	51	0.22	0.71	1.05	1.08	1.07	1.08	1.00	

THERMAL PERFORMANCE (ASTM C518)	THICKNESS		K-VALUE		C-VALUE		R-VALUE	
	in	mm	Btu.in/ hr.ft².°F	W/m.°C	Btu/hr ft².°F	W/m².°C	hr.ft².°F/ Btu	m².°C/W
1/2"	13	0.23	0.033	0.45	2.57	2.20	0.38	
1"	25	0.24	0.034	0.24	1.34	4.20	0.73	
1 1/2"	38	0.24	0.034	0.16	0.89	6.30	1.10	
2"	51	0.24	0.034	0.12	0.67	8.30	1.47	

Tested in accordance with ASTM C518 at 75°F (24°C) mean temperature.

INSTALLATION

All duct liner shall be installed in accordance with the requirement of the NAIMA Fibrous Glass Duct Liner Standard or SMACNA HVAC Duct Construction Standard and the project specification. Liner shall be adhered using adhesive (complying with ASTM C916) and mechanical fastener.

LIMITATION

Duct liner should be kept clean and dry during shipping, storage, installation and system operation.

Manson Insulation Inc. has no control over installation design, installation workmanship, accessory materials, or conditions of application. Manson does not warrant the performance or results of any installation containing their products. This warranty disclaimer includes all implied warranties, including the warranties of merchantability and fitness for a particular purpose.



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