



**AKOUSTI-LINER®** is a flexible duct liner providing both thermal and acoustical insulation. It is manufactured from inorganic glass fibres bonded with a thermosetting binder. The airstream surface is faced with a black mat bonded to the black fibreglass substrate. 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.

DENSITY		THICKNESS		WIDTH		ROLL LENGTH	
2.0 pcf	32 kg/m3	½"	13 mm	34" to 72"	863 to 1828 mm	100'	30.5 m
2.0 pcf	32 kg/m3	1"	25 mm	34" to 72"	863 to 1828 mm	50', 100'	15.2 m, 30.5 m
1.5 pcf	24 kg/m3	1"	25 mm	34" to 72"	863 to 1828 mm	50', 100'	15.2 m, 30.5 m
1.5 pcf	24 kg/m3	1½"	38 mm	34" to 60"	863 to 1524 mm	50'	15.2 m
1.5 pcf	24 kg/m3	2"	51 mm	34" to 60"	863 to 1524 mm	50'	15.2 m

## PRODUCT FEATURES

WATER VAPOUR SORPTION (ASTM C1104)  
Less than 3.0% 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, G-22)  
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 accelerate corrosion

SURFACE BURNING CHARACTERISTICS

- UL/ULC listed
- Does not exceed 25 Flame Spread, 50 Smoke developed when tested in accordance with ASTM E 84, NFPA 255, CAN/ULC S102-88M and UL 723

CONTRACTOR:

JOB NAME:

DATE:

# AKOUSTI-LINER®

Flexible Duct Liner Insulation

Temperature Limit: 250°F (121°C)



## SPECIFICATION COMPLIANCE

### ASTM C1071 : TYPE 1

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

### NFPA 90A

Standard for the Installation of Air-Conditioning and Ventilating Systems

### GREENGUARD Environmental Institute™

Children & Schools<sup>SM</sup> Certified for superior indoor air quality (IAQ) performance

### NFPA 90B

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

### CITY OF NEW YORK MEA #323-83-M

CALIFORNIA TITLE 24

CAN/ULC S102-M88

CAN/CGSB 51.11-92

ACOUSTICAL PERFORMANCE (ASTM C423 • A MOUNTING)	DENSITY	THICKNESS		FREQUENCY (Hz)						
	PCF   kg/m <sup>3</sup>	in	mm	125	250	500	1000	2000	4000	NRC
	2.0 pcf (32 kg/m <sup>3</sup> )	1/2"	13	0.09	0.14	0.40	0.60	0.73	0.82	0.45
	2.0 pcf (32 kg/m <sup>3</sup> )	1"	25	0.25	0.35	0.69	0.89	0.96	1.01	0.70
	1.5 pcf (24 kg/m <sup>3</sup> )	1"	25	0.18	0.36	0.59	0.86	0.95	0.90	0.70
	1.5 pcf (24 kg/m <sup>3</sup> )	1 1/2"	38	0.35	0.51	0.83	0.93	0.97	0.96	0.80
	1.5 pcf (24 kg/m <sup>3</sup> )	2"	51	0.34	0.64	0.96	1.03	1.00	1.03	0.90

THERMAL PERFORMANCE (ASTM C177)	DENSITY	THICKNESS		C-VALUE		R-VALUE	
	PCF   kg/m <sup>3</sup>	in	mm	Btu / ft <sup>2</sup> . hr. °F	W/m <sup>2</sup> . °C	ft <sup>2</sup> . hr. °F/Btu	m <sup>2</sup> . °C/W
	2.0 pcf (32 kg/m <sup>3</sup> )	1/2"	13	0.48	2.73	2.1	0.37
	2.0 pcf (32 kg/m <sup>3</sup> )	1"	25	0.24	1.36	4.2	0.74
	1.5 pcf (24 kg/m <sup>3</sup> )	1"	25	0.24	1.42	4.2	0.74
	1.5 pcf (24 kg/m <sup>3</sup> )	1 1/2"	38	0.17	0.97	6.0	1.06
	1.5 pcf (24 kg/m <sup>3</sup> )	2"	51	0.13	0.74	8.0	1.41

Tested in accordance with ASTM C177 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 PRODUCT LTD 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.*