



AKOUSTI-LINER™ insulation 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 fiberglass substrate. AKOUSTI-LINER™ insulation is offered with or without edge coating to seal fibres.

USES

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

AVAILABILITY

Manufactured dimensions are listed in the Manson Insulation product catalog.

SPECIFICATION COMPLIANCE

ASTM C 1071 : 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 & SchoolsSM 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

PRODUCT FEATURES

WATER VAPOUR ABSORPTION

Less than 3.0% by weight

ASTM C 1104

AIR FLOW CHARACTERISTICS

Air velocity rating 6,000 ft/min (30.5 m/s)

ASTM C 1071

BACTERIA RESISTANCE

Does not breed or promote growth

ASTM G-22

FUNGI RESISTANCE

Does not breed or promote growth

**ASTM C 1338
ASTM G-21**

HOT SURFACE PERFORMANCE

Operating temperature limit: Max 250°F (121°C)

ASTM C 411

CORROSIVENESS

Will not accelerate corrosion

ASTM C 665

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)



ACOUSTICAL PERFORMANCE (ASTM C423 • A MOUNTING)	DENSITY	THICKNESS		FREQUENCY (Hz)						
	PCF kg/m ³	in	mm	125	250	500	1000	2000	4000	NRC
	2.0 pcf (32 kg/m ³)	½"	13	0.09	0.14	0.40	0.60	0.73	0.82	0.45
	2.0 pcf (32 kg/m ³)	1"	25	0.25	0.35	0.69	0.89	0.96	1.01	0.70
	1.5 pcf (24 kg/m ³)	1"	25	0.18	0.36	0.59	0.86	0.95	0.90	0.70
	1.5 pcf (24 kg/m ³)	1½"	38	0.35	0.51	0.83	0.93	0.97	0.96	0.80
	1.5 pcf (24 kg/m ³)	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 ³	in	mm	Btu / ft ² . hr. °F	W/m ² .°C	ft ² . hr. °F/Btu	m ² .°C/W
	2.0 pcf (32 kg/m ³)	½"	13	0.48	2.73	2.1	0.37
	2.0 pcf (32 kg/m ³)	1"	25	0.24	1.36	4.2	0.74
	1.5 pcf (24 kg/m ³)	1"	25	0.24	1.42	4.2	0.74
	1.5 pcf (24 kg/m ³)	1½"	38	0.17	0.97	6.0	1.06
	1.5 pcf (24 kg/m ³)	2"	51	0.13	0.74	8.0	1.41

Tested in accordance with ASTM C 177 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 C 916) and mechanical fasteners.

LIMITATION

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

Manson Insulation Products 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.