



AKOUSTI-LINER insulation is a flexible duct liner providing both thermal and acoustical insulation. It is manufactured from inorganic glass fibers 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 fibers.

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, Fiber, 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 VAPOR 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

Fiberglass 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 fastener.

LIMITATION

Duct liner should be kept clean and dry during shipping, storage, installation and system operation. When condensation is permitted to occur between nested liner and galvanized steel panels, discoloration of the metal may occur.

FIBERGLASS AND MOLD

Fiberglass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated with organic materials. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold, it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced.

Air handling insulation used in the air stream must be discarded if exposed to water.