



AKOUSTI-LINER R® is a heavy-density fiber glass board insulation made from inorganic glass fibers bonded by a thermosetting binder. Its base board is brown with a black mat facing on the airstream surface.

USES

AKOUSTI-LINER R® is a premium, extra durable rigid liner for use on flat duct surfaces. Some typical applications include fan plenums and air distribution ducting on industrial and commercial heating, ventilating and air-conditioning systems.

AVAILABILITY

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

THICKNESS		WIDTH		LENGTH	
3/4"	19 mm	24" or 48"	610 mm to 1219 mm	48" or 96"	610 mm, 2438 mm
1"	25 mm	24" or 48"	610 mm to 1219 mm	48" or 96"	610 mm, 2438 mm
1½"	38 mm	24" or 48"	610 mm to 1219 mm	48" or 96"	610 mm, 2438 mm
2"	51 mm	24" or 48"	610 mm to 1219 mm	48" or 96"	610 mm, 2438 mm

PRODUCT FEATURES

WATER VAPOUR SORPTION (ASTM C1104)
Less than 3% by weight.

MICROBIAL GROWTH (ASTM C 1338, G 21, G 22)
Does not breed or promote growth

AIR FLOW CHARACTERISTICS (ASTM C1071)
Air velocity rating 5,000 ft/min (25.4 m/s)
Tested 12,500 ft/min (63.5 m/s)

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

CONTRACTOR:

JOB NAME:

DATE:

AKOUSTI-LINER R®

Fiberglass Thermal &
Acoustical Rigid Insulation

Temperature Limit: 250°F (121°C)



SPECIFICATION COMPLIANCE

ASTM C1071 : TYPE II

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

CGSB 51.11-92

Canadian specification for mineral fibre board insulation

GREENGUARD Environmental Institute™

Children & SchoolsSM Certified for superior indoor air quality (IAQ) performance

NFPA 90A

Standard for the Installation of Air-Conditioning
and Ventilating Systems

NFPA 90B

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

ACOUSTICAL PERFORMANCE (ASTM C423 • A MOUNTING)	THICKNESS		DENSITY		FREQUENCY (Hz)						
	in	mm	PCF	kg/m3	125	250	500	1000	2000	4000	NRC
	1"	25	3.0	48	0.13	0.24	0.56	0.83	0.92	0.98	0.65
	1½"	38	3.0	48	0.19	0.41	0.89	1.02	1.03	1.04	0.85
	2"	51	3.0	48	0.33	0.67	1.07	1.07	1.03	1.06	0.95

THERMAL PERFORMANCE (ASTM C177) Mean temperature 75°F (24°C)	THICKNESS		C-VALUE		R-VALUE	
	in	mm	Btu/ft². hr. °F	W/m². °C	ft². hr. °F/Btu	m². °C/W
	1"	25	0.23	1.31	4.3	0.76
	1½"	38	0.15	0.85	6.5	1.15
	2"	51	0.11	0.62	8.70	1.53

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 fasteners.

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.