



AKOUSTI-LINER R™ insulation is a heavy-density fiberglass board insulation product 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™ insulation 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 in the Manson Insulation product catalog.

SPECIFICATION COMPLIANCE

ASTM C 1071 : 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 90 A

Standard for the Installation of Air-Conditioning and Ventilating Systems

NFPA 90 B

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

PRODUCT FEATURES

WATER VAPOUR ABSORPTION

Less than 3.0% by weight

ASTM C 1104

AIR FLOW CHARACTERISTICS

Air velocity rating 5,000 ft/min (25.4 m/s)
Tested 12,500 ft/min (63.5 m/s)

ASTM C 1071

MICROBIAL GROWTH

Does not breed or promote growth

**ASTM C 1338
ASTM G 21, G 22**

FIRE HAZARD CLASSIFICATION

- UL/ULC listed
- Flame Spread Index not exceeding 25 and Smoke Developed Index not exceeding 50

**ASTM E 84
NFPA 255,
CAN/ULC S102-88M
UL 723**

CONTRACTOR:

JOB NAME:

DATE:

AKOUSTI-LINER R™

Fiberglass Thermal & Acoustical
Rigid Insulation
Temperature Limit: 250°F (121°C)



ACOUSTICAL PERFORMANCE (ASTM C 423 • 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 C 177) 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 C 916) and mechanical fastener.

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.