MANSON INSULATION
KEEPING IT SIMPLE.™

AKOUSTI-LINER R

Glass Mineral Wool Duct Liner R
Thermal & Accoustical Rigid Insulation
Temperature Limit: 250°F (121°C)

AKOUSTI-LINER R insulation is a heavy density glass mineral wool 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

Manson 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.

PRODUCT FEATURES

Air Flow Characteristics (ASTM C 1071)
- Air velicity rating 5,000 ft/min (25.4 m/s)
  Tested 12,500 ft/min (63.5 m's)

Water Vapor Absorption (ASTM C 1104)
- Less than 3% by weight

Microbial Growth (ASTM C 1338, ASTM G-22, ASTM G-22)
- Does not breed or promote growth

Fire Hardard classification
(ASTM E 84, NFPA 55, CAN/ULC S102-88M, UL723)
- UL/ULC Listed
- Flame Spread Index not exceeding 25, Smoke Developed Index not exceeding 50

SPECIFICATION COMPLIANCE

ASTM C 1071 : TYPE II
- Standard specification for Thermal and Acoustical Insulation (Glass, Fiber, Duct Lining Material)

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

GREENGARD Environmental Institute ™
- Children & Schools℠ Certified for superior indoor air quality (IAQ) performance

CGSB 51.11-92
- Canadian specification for mineral fiber board insulation

CONTRACTOR:

JOB NAME:

DATE:

MANSON INSULATION
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ACCOUSTICAL PERFORMANCE (ASTM C 423 – A MOUNTING)	DENSITY	THICKNESS		FREQUENCY (Hz)						
	PCF | kg/m³	IN	MM	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
	3.0 PCF (48 kg/m³)	1"	25	0.13	0.24	0.56	0.83	0.92	0.98	0.65
	3.0 PCF (48 kg/m³)	1.5"	38	0.19	0.41	0.89	1.02	1.03	1.04	0.85
	3.0 PCF (48 kg/m³)	2"	51	0.33	0.67	1.07	1.07	1.03	1.06	0.95

THERMAL PERFORMANCE (ASTM C 177)	DENSITY	THICKNESS		C-VALUE		R-VALUE	
	PCF | kg/m³	IN	MM	Btu/ft².hr.°F	W/m².°C	ft².hr.°F/Btu	m².°C/W
	3.0 PCF (48 kg/m³)	1"	25	0.23	1.31	4.3	0.76
	3.0 PCF (48 kg/m³)	1.5"	38	0.15	0.85	6.5	1.15
	3.0 PCF (48 kg/m³)	2"	51	0.11	0.62	8.7	1.53

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 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. When condensation is permitted to occur between nested liner and galvanized steel panels, discolration of the metal may occur.

GLASS MINERAL WOOL AND MOLD

Glass mineral wool 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.

Check with your Manson Insulation Products Territory Manager to assure information is current.