



1074 Kenran Industrial Dr.
 St. Louis, MO 63137
 Phone: 1-800-381-9968

FBX Industrial Board Insulations



FBX INDUSTRIAL BOARD INSULATIONS

1240 1260 1280 1210 1212

Basalt Insulation in rigid and semi-rigid board form manufactured to ASTM C 612 Types I through IVB. Industrial Board provides superior thermal, acoustical and personnel protection performance for boilers, precipitators, ducts and mechanical equipment operating at temperatures from subambient to 1,200°F (649°C).

Fibrex mineral insulation products are manufactured using state of the art patented technology to produce industrial use boards with superior handleability. The material is clean, easily fabricated and quickly installed.



FEATURES

- Superior thermal conductivity
- Wide range of service temperatures
- Low in-service shrinkage; 0% @ 1,050°F (551°C)
- Lightweight
- Applicator friendly
- Good compressive strength
- Non-wicking
- Easy to fabricate
- Less dusty

BENEFITS

- Maximum prevention of heat loss
- Continuous service, subambient to 1,200°F (649°C)
- Less potential for gaps forming at joints from elevated operating temperatures
- Saves installation time and cost
- Less irritating
- Less jacket damage
- Allows temporary outdoor storage at jobsite
- Cuts easily with a knife; no sawing required
- Cleaner to handle; minimizes cleanup time and expense

GENERAL INFORMATION

Standard sizes:	
lengths	48" (1,219mm)
widths	24" (610mm)
Standard thicknesses:	1" to 5" in 1/2" increments (25mm to 127mm in 13mm increments)
Facings:	FSK available on request
Service temperatures:	Continuous use to 1,200°F (649°C); phased heatup not required
Linear shrinkage:	0% @ 1,050°F (556°C); <1% @ 1,200°F (649°C)
Recovery after 10% compression:	100%
Moisture adsorption:	<1%; inorganic, will not mildew
Asbestos:	None
Corrosion:	Does not promote or contribute to
Combustibility:	Non-combustible
Chemistry:	Mean chemistry data available on request
Surface burning characteristics:	Flame spread 5
(Unfaced)	Smoke developed 0



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The light weight of Industrial Board makes it easy to install. It fabricates easily and cleanly with minimal cleanup.

SPECIFICATION COMPLIANCE

Manufactured, tested and certified in compliance with all the standards and specifications listed below. Data and evidence available upon request.

- | | | |
|---------------------------|--------------|-----------|
| ASTM C 612, Type I - IV B | ASTM C 795 | ASTM E 84 |
| ASTM E 136 | UL 723 | CAN4-S102 |
| NRC 1.36 | USCG 164.009 | HH-I-558B |
| CAN/CGSB - 51-10-92 | CAN4-S114M | |

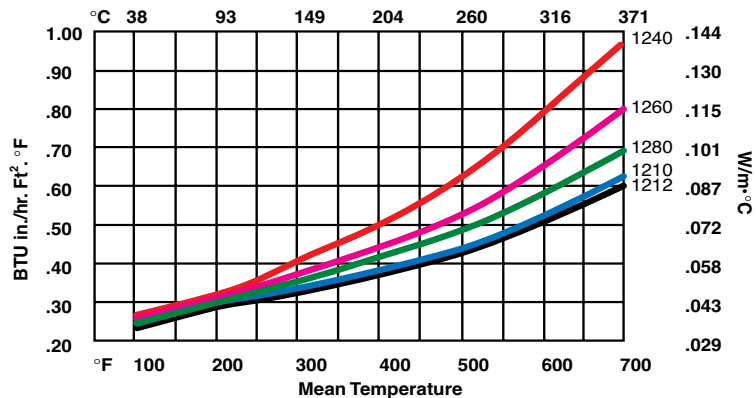
RECOMMENDED THICKNESS

Fibrex can provide a confidential computer analysis of every insulation requirement based on calculations performed to the method described in ASTM C 680.

NOTE: Advance notification must be provided if lot testing is required.

THERMAL PERFORMANCE

(ASTM C 177 test method):



ACOUSTICAL PROPERTIES

Tested per
ASTM C423 & 795



TYPE	TH. (in)	ABSORPTION COEFFICIENT @ Hz				NRC
		125	1000	2000	4000	
FBX 1280	1.5	0.13	1.08	1.04	1.07	0.95
	2	0.32	1.07	1.01	1.05	1.00
	3	0.76	0.98	1.01	1.00	0.95
	4	1.11	1.03	1.06	1.07	1.00
FBX 1260	1.5	0.18	1.08	1.03	1.07	0.95
	2	0.25	1.10	1.04	1.06	1.05
	3	0.80	0.99	0.98	0.96	1.05
	4	0.99	1.03	1.03	1.05	1.05
FBX 1240	1.5	0.13	1.08	1.02	1.01	0.90
	2	0.20	1.06	1.04	1.07	0.95
	3	0.49	1.09	1.06	1.04	1.05
	4	0.88	1.08	1.06	1.10	1.10
	6	1.32	1.09	1.06	1.07	1.10



Mass Loaded Vinyl Noise Abatement Material

DESCRIPTION

Insulation Fabricators' Mass Loaded Vinyl is a flexible noise barrier designed to absorb sound from ducts, pipes or valves. The material can also be used to reduce noise transmission through ceilings, walls, floors, and machinery enclosures. This product consists of a reinforced barium sulfate loaded vinyl. It is a lead free, dense, highly flexible sound barrier. Mass Loaded Vinyl is flame-resistant and impervious to oils. As an added benefit, the material is also available with a foil facing adhered to one side, and can also have a 2" fiberglass blanket applied to the other side.

AVAILABILITY

Standard Roll Size: 4' x 15'
 (60 SF/RL)

MLV4815: 1# Plain

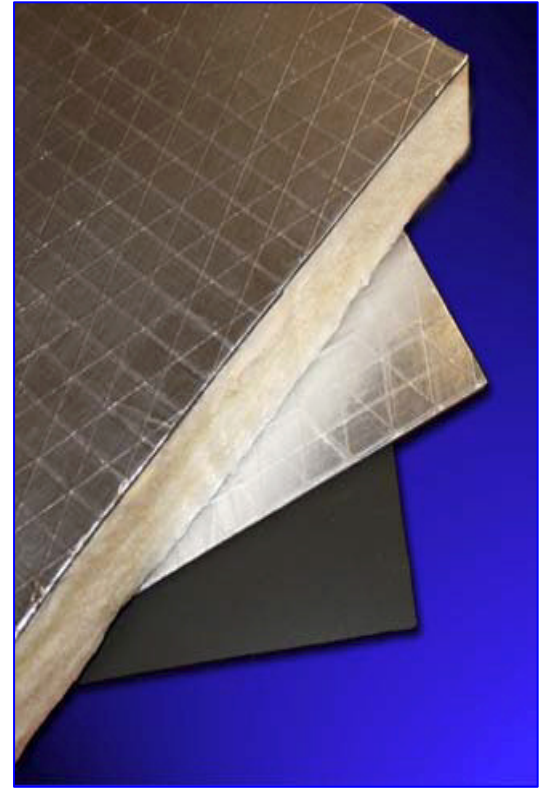
MLV4815F: 1# w/FSK

MLV4815FB: 1# w/FSK and
 1" or 2"
 F/G Blanket

Tensile Strength: 1350 kPa
 (196 psi)

Ultimate Elongation: 45%

Weight: 1 lb/sq/ft



Sound Transmission Loss (dB/Frequency Hz)									
Hz	125	200	315	500	800	1250	3150	5000	8000
dB	10	13	17	20	23	27	35	40	43

PIPE & DUCT LAGGING

Pipe and Duct Lagging, designed for indoor or outdoor use, meets Class 1 requirements for smoke development and flame spread when properly installed. The composite material is designed to reduce the sound transmission of piping, ductwork and equipment housings greater than achieved by adding mass alone by combining a fire-rated limp mass with a decoupling fiberglass lining.

Applications include pipeline noise from fluid or gas pulsation in chemical, petrochemical and

wastewater treatment plants, and industrial processes in addition to pressured reducing stations, HVAC duct and mixing boxes and other similar applications.

The material is constructed of a reinforced aluminized-faced limp mass vinyl bonded to a fiberglass absorber (decoupler). The vinyl provides mass and flexibility, while the aluminum adds increased mechanical strength and weatherability. To decouple the mass layer from the noise or vibration source, a fiberglass absorber is used.

The absorber layer consists of a fine fiberglass batting. Depending on the application, the absorber can be 1" (25mm) or 2" (50mm) thick; however, the thicker material provides better noise control.

The non-lead composition of the barrier material allows for safe handling and easy installation. When applied the material is simply cut to length, wrapped around the pipe or duct and fastened with adhesive tape, mechanical fasteners or bands.

(Aluminum foil tape, which matches the facing, is available if required)