



## AKOUSTI-SHIELD™

### DESCRIPTION

Akousti-Shield insulation is a flexible fiberglass blanket with a black mat facing adhered to one surface. It provides thermal and acoustical insulation while a smooth, tough surface resists damage during installation.

### SUSTAINABILITY

Manson Insulation products with ECOSE<sup>®</sup> Technology are made using a patented, bio-based binder - a smarter alternative to the phenol-formaldehyde (PF) binder traditionally used in fiberglass products. The bio-based binder holds our product together and gives the product its unique appearance, making it formaldehyde-free.

The Akousti-Shield Environmental Product Declaration (EPD) is third party verified. An EPD is a comprehensive document that reports the environmental impacts of a product, calculated via a Life Cycle Assessment (LCA). This transparency document enables our products to contribute towards achieving green building certifications and allows our customers to make informed decisions. Our products are made with a minimum of 50% UL Certified Recycled Glass Content.

### APPLICATION

Manson Insulation Akousti-Shield is designed for use as an acoustical and visual barrier for walls and ceilings where a black surface is required. It is primarily used in theaters, sound studios, public concourses and other areas where acoustical treatment is needed. It is intended to be mechanically fastened to walls and can be covered with fabric or draping, or suspended above linear metal and metal pan ceiling systems to serve as both a visual and acoustical treatment.

### INDOOR AIR QUALITY

- **Asthma & Allergy Friendly<sup>®</sup>** Certified
- Verified Healthier Air™
- UL Environment
  - GREENGUARD Certified
  - GREENGUARD Gold Certified
  - Validated to be Formaldehyde-Free
- EUCEB certified

### FIBERGLASS AND MOLD

Fiberglass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. 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.

### NOTES

The chemical and physical properties of this product represent average values determined in accordance with accepted test methods. The data is subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

Check with your Manson Insulation Area Manager to ensure information is current.

# AKOUSTI-SHIELD™

## TECHNICAL DATA

PROPERTY (UNIT)	TEST	PERFORMANCE
Corrosiveness	ASTM C665	Does not accelerate corrosion of steel
Corrosion	ASTM C1617	Pass
Air Velocity	ASTM C1071	Maximum 6,000 ft./min. (1,829 m/min.)
Water Vapor Sorption (by weight)	ASTM C1104	Less than 3%
Maximum Service Temperature	ASTM C411	250° F (121° C)
Mold Growth	ASTM C1338, ASTM G21	Pass. The airstream surface mat facing is treated with an EPA-registered anti-microbial agent to aid in the prevention of fungal and bacterial growth
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84, NFPA 90A and 90B UL 723, CAN S102	UL Classified FHC 25/50

## SOUND ABSORPTION COEFFICIENTS | ASTM C423, TYPE A MOUNTING

		OCTAVE BAND CENTER FREQUENCY (CYCLES/SEC)						
TYPE		125	250	500	1000	2000	4000	NRC
1.5 PCF (24 kg/m³)	1" (25 mm)	0.18	0.28	0.73	0.85	0.91	0.90	0.70
	1½" (38 mm)	0.23	0.50	0.87	0.92	0.93	0.93	0.80
	2" (51 mm)	0.37	0.76	1.02	1.00	0.98	0.92	0.95
2.0 PCF (32 kg/m³)	½" (13 mm)	0.10	0.17	0.43	0.59	0.73	0.75	0.50
	1" (25 mm)	0.25	0.35	0.69	0.89	0.96	1.01	0.70
	1½" (38 mm)	0.27	0.55	0.87	0.99	1.00	0.98	0.85

## FORMS AVAILABLE

DENSITY	THICKNESS	WIDTH	LENGTH
1.5 PCF (24 kg/m³)	1" (25 mm)	48" (1,219 mm)	100' (30.48 m)
	2" (51 mm)		50' (15.24 m)

Manson Insulation | [www.imanson.com](http://www.imanson.com)

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Manufactured by Knauf Insulation

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