

AK SMOOTH BOARD

Glass Mineral Wool Thermal &
Acoustical Board Insulation
Temperature Limit: 450°F (232°C)



AK SMOOTH BOARD is a thermal and acoustical insulation product made from inorganic glass fibers preformed into boards bonded by a thermosetting resin.

USES

Manson AK SMOOTH BOARD is a versatile product for thermal and acoustical applications such as: office partitions, interior panels and sound baffles.

AVAILABILITY

Manufactured dimensions are listed in the Manson Insulation product catalog.

SPECIFICATION COMPLIANCE

ASTM C 612

Standard specification for mineral fiber board insulation

- Type IA
- Type IB

ASTM C 795**California Title 24****HH-1-558C**

- Form A, Class 1 and Class 2

Corrosiveness (ASTM C 665)

- Will not accelerate corrosion of aluminum, steel or copper

Temperature Range (ASTM C 411)

- Operating temperatures from 0°F to 450°F (-18°C to 232°C)

PRODUCT FEATURES

Water Vapor Sorption (ASTM C 1104)

- Less than 5% by weight

Shrinkage (ASTM C 356)

- Less than 0.3% linear shrinkage

Microbial Growth (ASTM C 1338)

- Does not promote or support the growth of mold

CGSB 51-GP-10M, CAN/ULC S102-M-88

- Canadian Specification for mineral fiber board insulation

FIRE HAZARD CLASSIFICATION

- (UL 723, CAN/ULC-S102-M-88, ASTM E84, NFPA, 90A & 90B, NFPA 255)
- Flame Spread Index not exceeding 25 and Smoke Developed
- Index not exceeding 50

Odor (ASTM C 1304)

- Not objectionable

CONTRACTOR:

JOB NAME:

DATE:

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Sound Absorption Coefficients (ASTM C 423, Type A Mounting)								
		Octave Band Center Frequency (cycles/sec.)						
Density	Thickness	125	250	500	1000	2000	4000	NRC
6.0 PCF (96 kg/m ³)	1" (25 mm)	.05	.26	.77	1.04	1.04	1.03	.80
	1½" (38 mm)	.13	.58	1.01	1.05	1.00	1.01	.90
	2" (51 mm)	.32	.81	1.08	1.06	1.03	1.04	1.00

Thermal Conductivity (ASTM C 177) @ 75°F Mean Temperature	
Density	Thermal Conductivity BTU-in. ft ² °F
6.0 PCF (96 kg/m ³)	0.22

FORMS AVAILABLE AND MINIMUM RELEASE – 6.0 PCF (96 kg/m ³)			
Thickness	Width Range †	Length Range	Minimum Release
¾" (19 mm)	24"-61" (610 mm to 1549 mm)	48"-121" (1219 mm to 3073 mm)	18 MSF
1" (25 mm)			12 MSF
1½" (38 mm)			9 MSF
2" (51 mm)			6 MSF

† Tolerances: Thickness: ± 1/16" (1.59 mm); Width: ± 1/8" (3.2 mm); Length: ± 1/4" (6.4 mm).
For requirements not listed, contact your Manson Insulation Territory Manager.

Packaging Available	
Product Dimensions	Package
24" x 48"	Carton
48" x 96"	Pallet
48" x 120"	Pallet
49" x 97"	Pallet
49" x 121"	Pallet

INSTALLATION

Manson AK SMOOTH BOARD insulation is usually installed in accordance with the procedure in the publication "Commercial & Industrial Standards" by the National Insulation Association (NIA).

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.

