KNAUF INSULATION

Data Sheet | OEM-ASB-DS-PF | 06-18

Acoustical Smooth Board

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DESCRIPTION

Knauf Insulation Acoustical Smooth Board is a thermal and acoustical insulation product made from inorganic glass fibers pre-formed into boards and bonded by a thermosetting resin.

APPLICATION

Knauf Insulation Acoustical Smooth Board with is a versatile product for thermal and acoustical applications such as office partitions, interior panels and sound baffles.

PRODUCT FEATURES

Density and Size Availability

- Acoustical Smooth Board is available in the densities and sizes required by panel and ceiling manufacturers. Special items not shown on the price and data sheet can be made based on our process capability

Surface Smoothness

- One surface is skidded smooth which allows for flatness and uniformity

Precision Tolerances

- Tolerances are +/- 1⁄16" (1.6 mm) for thickness and +/- 1⁄8" (3.2 mm) for width and +/- 1⁄4" (6.4 mm) length

Fabrication

- The board is suitable for machining

Noise Reduction

- Excellent sound absorption characteristics, an important benefit for today's office and interiors

Packaging

- The standard packaging is sheets on pallets. For other options contact your Knauf Insulation Territory Manager

SPECIFICATION COMPLIANCE

In U.S.

- ASTM C612; Type IA and Type IB
- California Title 24
- HH-I-558C; Form A, Class 1 and Class 2
- NFPA 90A and 90B

In Canada

- CAN/ULC S102-M88
- CGSB 51-GP-10M

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.

NOTES

The chemical and physical properties of Knauf Insulation Acoustical Smooth Board represent typical 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 Knauf Insulation Territory Manager to ensure information is current.

Technical Data

Property (Unit)	Test	Performance
Corrossiveness	ASTM C665	Does not accelerate corrosion of steel
Maximum Service Temperature	ASTM C411	450 °F (232 °C)
Shrinkage	ASTM C356	Less than 0.3% linear shrinkage
Water Vapor Sorption (by weight)	ASTM C1104	Less than 5%
Odor	ASTM 1304	Pass
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84, CAN/ULC S102, NFPA 90A and 90B, UL 723	25/50

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

Thermal Conductivity (ASTM C177) @ 75°F Mean Temperature

Density	Thermal Conductivity (BTU-in. • ft² •°F)
6.0 PCF (96 kg/m³)	0.22

Forms Available

Density	Thickness	Width Range[1]	Length Range	Current Minimum (ft²)
6.0 PCF (96 kg/m³)	¾" (19 mm)	24"–61" (610 mm–1549 mm)	48"–121" (1219 mm–3073 mm)	18,000
	1" (25 mm)			12,000
	1½" (38 mm)			9,000
	2" (51 mm)			6,000

All products are custom. It is recommended that Acoustical Smooth Board be sampled and evaluated prior to ordering.
[1]Tolerances: Thickness: ± 1/16" (1.59 mm); Width: ± ⅛" (3.2 mm); Length: ± ¼" (6.4 mm). For requirements not listed, contact your Knauf Insulation Territory Manager.

Sound Absorption Coefficients | ASTM C423, Type A Mounting

Density	Thickness	Octave Band Center Frequency (cycles/sec.)						
		125	250	500	1000	2000	4000	NRC
6.0 PCF (96 kg/m³)	1" (25 mm)	0.05	0.26	0.77	1.04	1.04	1.03	0.80
	1½" (38 mm)	0.13	0.58	1.01	1.05	1.00	1.01	0.90
	2" (51 mm)	0.32	0.81	1.08	1.06	1.03	1.04	1.00

KNAUF INSULATION

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U.S. GREEN BUILDING COUNCIL MEMBER

LEED Eligible Product
Use of this product may help building projects meet green building standards as set by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

LEED v2009
MR Credit 4.1 - 4.2 Recycled Content
MR Credit 5.1 - 5.2 Regional Materials

LEED v4
Knauf Insulation offers several products for both envelope and mechanical systems that have ingredient disclosure and transparency. Please contact transparency@knaufinsulation.com for products that currently contribute to MR credits.