DATA SHEET

Acoustical Smooth Board

with ECOSE® Technology

DESCRIPTION

Knauf Insulation Acoustical Smooth Board is a 6.0 PCF thermal and acoustical insulation product made from inorganic glass fibers preformed into boards with ECOSE Technology. The board is smooth on one side with precision cut tolerances.

APPLICATION

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

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

In Canada

- CGSB 51-GP-10M

INDOOR AIR QUALITY

- UL Environment
  - GREENGUARD Certified
  - GREENGUARD Gold Certified
  - Validated to be Formaldehyde-Free
- EUCEB Certified

CONTRACTOR: _____

JOB: _____

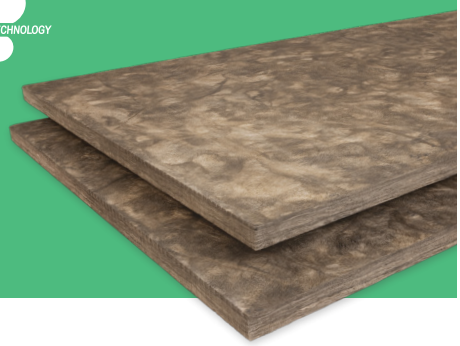
DATE: _____

DOING MORE FOR THE WORLD WE LIVE IN.

Knauf Insulation products with ECOSE® Technology are made using our 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, gives the product its unique appearance and makes it formaldehyde-free.

All of our products are made from sustainable resources, such as recycled glass and sand. And we're proud to be putting glass bottles back to work rather than into landfills. Our products are made with a minimum of 50% recycled glass—totaling an average of 26 million bottles each month.

with ECOSE® TECHNOLOGY



TECHNICAL DATA		
Property (Unit)	**Test**	**Performance**
Corrossiveness	ASTM C665	Does not accelerate corrosion of steel
Corrosion	ASTM C1617	Pass
Maximum Service Temperature	ASTM C411	450 °F (232 °C) up to 4" product thickness
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

FORMS AVAILABLE				
Density	**Thickness**	**Width Range †**	**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.
†Tolerances: Thickness: ± 1/16" (1.59 mm); Width: ± 1/8" (3.2 mm); Length: ± 1/8" (3.2 mm). For requirements not listed, contact your Knauf Insulation Territory Manager.

SOUND ABSORPTION COEFFICIENTS I 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

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 I ASTM C177 75°F MEAN TEMPERATURE	
Density	**Thermal Conductivity (BTU-in. • ft² • °F)**
6.0 PCF (96 kg/m³)	0.22

PACKAGING

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

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.

CERTIFICATIONS

Check with your Knauf Insulation Territory Manager to ensure information is current.

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.

This product is covered by one or more U.S. and/or other patents.
See patent www.knaufnorthamerica.com/patents

Visit **knaufnorthamerica.com** to learn more.

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