



Performance+®

Acoustical Smooth Board with ECOSE® Technology

Product-Data-Sheet

Description

Performance+® 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 Performance+® 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

- Asthma & Allergy Friendly® Certified
- Verified Healthier Air™
- UL Environment
 - GREENGUARD Certified
 - GREENGUARD Gold Certified
 - Validated to be Formaldehyde-Free
- EUCEB Certified

Certifications



The Asthma & Allergy Friendly® Certification Mark is a Registered Certification Mark of the Asthma Allergy Foundation of America (AAFA) and Allergy Standards Ltd (ASL). Verified Healthier Air™ is a trademark of Airmid Healthgroup. USGBC® and the related logo are trademarks owned by the U.S. Green Building Council® and are used with permission.

Contractor: _____

Job: _____

Date: _____

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: ± ⅛" (1.59 mm); Width: ± ⅜" (3.2 mm); Length: ± ⅜" (3.2 mm). For requirements not listed, contact your Knauf 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 |

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 | ATSM C177 | 75° Mean Temperature

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

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.

PACKAGING

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

Check with your Knauf 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.

Consult with or follow local building and energy codes to determine appropriate R-values and need for and placement of a vapor retarder.

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Technical Support

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This product is covered by one or more U.S. and/or other patents.

See patent www.knaufnorthamerica.com/patents

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