

AP™ Breathing Sheathing POLYISOCYANURATE CONTINUOUS INSULATION

DESCRIPTION

Johns Manville AP™ Breathing Sheathing Polyiso Continuous Insulation board is a breathable continuous polyiso insulation, which is designed to be semi vapor permeable. AP Breathing Sheathing consists of a uniform closed-cell polyisocyanurate foam core bonded to a coated glass facer on both sides of the board. Polyiso provides one of the highest R-values per inch of any rigid insulation.

AP Breathing Sheathing is produced with an EPA-compliant hydrocarbon-based blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP); it also meets both CFC- and HCFC-free specification requirements. Polyiso is one of North America's most widely used insulation products and has been cited by the EPA for its responsible impact on the environment.

AP Breathing Sheathing provides exceptional heat and moisture resistance to protect your building's exterior wall assembly.

INSTALLATION

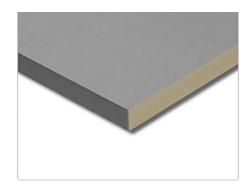
AP Breathing Sheathing is lightweight and can be easily cut with a utility knife or saw. Use maximum board lengths to minimize the number of joints. Vertical joints should be staggered. Butt joints should be centered over framing. Consult your local building department for code requirements.

AVAILABILITY

AP Breathing Sheathing is available in the sizes shown in Table 1 (see reverse). For additional information or special size inquiries, please consult a sales representative at 800-654-3103.

COMPANY

Johns Manville, a Berkshire Hathaway company, was founded in 1858. Our ownership by Berkshire Hathaway, one of the most admired companies in the world and one of the most financially secure, allows JM to invest for the future. This enables JM to continue delivering the broadest range of insulation products in the industry and offering innovative solutions that meet your needs.



PERFORMANCE ADVANTAGES

Thermal Insulation: inch for inch, polyiso has one of the highest energy efficiencies. R-values for AP Breathing Sheathing are shown in Table 1, and physical properties are shown in Table 2 (see reverse).R means resistance to heat flow. The higher the R-value, the greater the insulating power.

Noncorrosive: does not accelerate corrosion of pipes, wiring or metal studs.

Lightweight: easy to handle, can be cut with a utility knife or saw.

ENERGY & QUALITY





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STORAGE

Store AP Breathing Sheathing elevated above the floor or ground and standing water. If stored outdoors, keep dry by covering completely with a waterproof tarpaulin.

LIMITATIONS

AP Breathing Sheathing is nonstructural. The walls must be braced in accordance with the requirements of the applicable code.

WARRANTY

All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of this document, call 800-654-3103.

PERFORMANCE DATA

Table 1: Thermal Performance

WARNING

AP Breathing Sheathing is combustible and shall be used only as specified by the local building code with respect to flame spread classification and to the use of a suitable thermal barrier when required.

TECHNICAL SERVICES

Johns Manville can provide technical information to assist in addressing questions regarding AP Breathing Sheathing. Please call 800-654-3103 for technical assistance.

| THICKNESS (in) | R-VALUE* | THICKNESS (mm) | RSI-VALUE | BOARD SIZE (ft) |
|-------------------|----------|-------------------|-----------|--------------------|
| 1 | 5.7 | 25 | 1.00 | 4 x 8 |
| 1.5 | 8.5 | 38 | 1.50 | 4 x 8 |
| 2 | 11 / | 51 | 2 በ1 | /l v 8 |

^{*}Long-term thermal resistance tested in accordance with CAN/ULC S770

Table 2: Physical Properties*

| PROPERTY | UNITS | NOMINAL VALUE | TEST METHOD |
|-------------------------------|------------------------|----------------------------------|---------------------|
| Compressive Strength | kPa (psi) | > 140 (> 20.3) | ASTM D1621 |
| Tensile Strength | kPa (psi) | > 24 (> 3.48) | ASTM D1623 |
| Flexural Strength | kPa (psi) | 655 (95) | ASTM C203 |
| Water Absorption | % vol. | 1% (max) | ASTM D2842 |
| Dimensional Stability | % | ± 2 | ASTM C2126 |
| Water Vapor Transmission Rate | ng/Pa • s • m² (perms) | > 60 (>1) | ASTM E96 (Method B) |
| Flame / Smoke Spread | - | < 55/500 | CAN/ULC-S102 |
| Service Temperature | °C (°F) | -73°C to 121°C (-100°F to 250°F) | - |
| Width Tolerance | mm (in) | ≤+4 (0.16") | ASTM C303 |
| Length Tolerance | mm (in) | ≤+6 (0.24") | ASTM C303 |

^{*}Tested in accordance with CAN/ULC S704 for Type 2, Class 3 material and per ASTM C1289 as a Type II Class 2 Grade 2 material



Visit our website at www.JM.com or call 800-654-3103 | Building Insulation Division P.O. Box 5108 | Denver, CO 80217-5108

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of AP Breathing Sheathing Polyisocyanurate Continuous Insulation listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the sales office nearest you for current information. All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville insulation and systems, visit www.jm.com/terms-conditions or call 800-654-3103.