

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

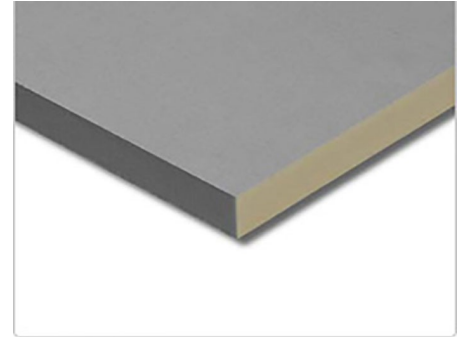
AP Breathing Sheathing is lightweight and can be easily cut with a utility knife or saw. Use maximum board lengths to minimize the number of joints. Vertical joints should be staggered. Butt joints should be centered over framing. Consult your local building department for code requirements.

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



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

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	11.4	51	2.01	4 x 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•m ² (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

WARNING

AP Breathing Sheathing is combustibile 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.