



PRODUCT DATA SHEET

DESCRIPTION

Johns Manville CI Max® is a high efficiency rigid foam sheathing designed for exposed interior applications. It is composed of a uniform closed-cell polyisocyanurate foam core bonded on each side to glass-mat-reinforced 1.5 mil embossed aluminum facers. Available in a white or silver finish, CI Max foam sheathing is approved for use without a thermal barrier and provides an attractive and durable interior finish. It is suitable for wall or ceiling applications in residential, commercial, agricultural and industrial buildings.

Polyiso provides a continuous layer of insulation to reduce thermal bridging and improve energy efficiency. CI Max foam sheathing passed NFPA 286 Corner Burn Test for walls only or ceiling only without joint treatment, meeting both the International Code Council's Building Code Section 2603 and Residential Code Section R316.

CI Max foam sheathing is produced with an EPA compliant hydrocarbon-based blowing agent which has zero Ozone Depletion Potential (ODP) and virtually no Global Warming Potential (GWP). It meets CFC- and HCFC-free specification requirements. It also meets acceptance criteria for individual VOCs of concern and formaldehyde for school classrooms, private offices, and single family residences. 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.

USE

CI Max foam sheathing is designed for easy installation where high thermal efficiency is required within both new and retrofit interior construction. It is an excellent interior insulation solution for both residential and Types I-V commercial construction including: masonry or framed walls or ceilings; pre-engineered metal buildings; industrial, agricultural, farm, storage, and parking structures; below-grade basement walls or ceilings; crawlspace walls or ceilings. Follow local building codes for application without a thermal barrier.

THERMAL INSULATION

Polyiso has one of the highest R-Values per inch of any rigid insulation, making it the product of choice for energy-aware consumers. R-values for CI Max foam sheathing are shown in Table 1 (see reverse), and physical properties are shown in Table 2. R means resistance to heat flow. The higher the R-value, the greater the insulating power.

AVAILABILITY

CI Max foam sheathing is available in the sizes shown in Table 1. For additional information or special size inquiries, please consult a sales representative at 800-654-3103.

STORAGE

Store CI Max foam sheathing elevated above the floor or ground and standing water. If stored outdoors, keep dry by covering completely with a waterproof tarpaulin.

INSTALLATION

CI Max foam sheathing is lightweight and can be easily cut with a utility knife or saw. Use maximum board lengths to minimize the number of joints. Butt joints should be centered over framing. Consult local building department for code requirements.



COMPLIANCES

- ASTM C1289 Type 1, Class 1
- CAN/ULC S704, Type 1, Class 1
- ICC- ESR-3398
- California State Insulation Quality Standards
- International Building Code Section 2603 and 803, (2012, 2009)
- International Residential Code Section R316 (2009, 2012)
- International Energy Conservation Code, Table C402.2, Table R402.1.1, (2012, 2009)
- ASHRAE 90.1
- Energy Star Pending

PERFORMANCE STANDARDS

- ASTM C1289, Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
- CAN/ULC-S704 Standard for Thermal Insulation, Polyurethane and Polyisocyanurate, Boards, Faced
- ASTM E84, Test for Surface Burning Characteristics of Building Materials
- CAN/ULC S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
- NFPA 286, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
- VOC Emissions from Building Products, CDPH/EHLB/Standard Method V1.1 (Section 01350)



Polyisocyanurate Foam Sheathing

Continuous Insulation for Exposed Interior Walls or Ceilings



PRODUCT DATA SHEET

CI MAX®

LIMITATIONS

CI Max foam sheathing is nonstructural. The walls must be braced in accordance with the requirements of the applicable code. This product is not marketed as a rodent or insect deterrent.

WARRANTY

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

WARNING

Check applicable building codes. CI Max foam sheathing must be protected from open flame because the product is combustible. CI Max foam sheathing must be protected from outside elements like wind, rain, and sunlight and should be kept dry at all times.

TECHNICAL SERVICES

Johns Manville can provide technical information to assist in addressing questions regarding CI Max foam sheathing. Please call 800-654-3103 for technical assistance.

PERFORMANCE DATA

Table 1: Thermal Performance

NOMINAL THICKNESS		R-VALUE ¹ (°F•ft ² •h/BTU)	RSI-VALUE ¹ (°K•m ² /Watts)	BOARD SIZE ² (feet)
(inches)	(millimeters)			
0.50	13	2.7	0.48	4 x 8, 9, or 10
0.77	20	4.5	0.79	4 x 8, 9, or 10
1.00	25	6.0	1.06	4 x 8, 9, or 10
1.50	38	9.3	1.63	4 x 8, 9, or 10
1.65	42	10	1.81	4 x 8, 9, or 10
2.00	51	13	2.21	4 x 8, 9, or 10
2.50	64	16	2.79	4 x 8, 9, or 10
3.00	76	19	3.36	4 x 8, 9, or 10
3.50	89	22	3.94	4 x 8, 9, or 10
4.00	102	26	4.52	4 x 8, 9, or 10

¹Aged R-value at 75° F in accordance with ASTM C1289.

²Non-standard 9' and 10' long board available as made to order.

Table 2: Physical Properties

PROPERTY	UNITS	TEST METHOD	RESULT
Thermal Resistance, 1 inch	°F•ft ² •h/BTU	ASTM C518*	6.0
Compressive Strength	psi	ASTM D1621	≥ 16
Flexural Strength	psi	ASTM C203	≥ 40
Water Absorption	% by volume	ASTM C209	< 0.6
Water Vapor Permeance	perms	ASTM E96	0.02
Surface Burning Characteristics**			
Flame Spread	index	ASTM E84	≤ 25
Smoke Developed	index	ASTM E84	≤ 450
Service Temperature	°F		-100 to 250

*Aged R-value at 75° F in accordance with ASTM C1289.

**Numerical flame spread and smoke developed ratings are not intended to reflect hazards present in actual fire conditions.

ENERGY, QUALITY & ENVIRONMENT



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

Data as shown in this literature is intended to be used as a general guideline only. The physical and chemical properties of CI Max® Insulation for Exposed Interior Use 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 Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy or for information on other Johns Manville thermal and acoustical insulation and systems, visit the website or call the 800 number above. 717 17th Street Denver CO, 80202