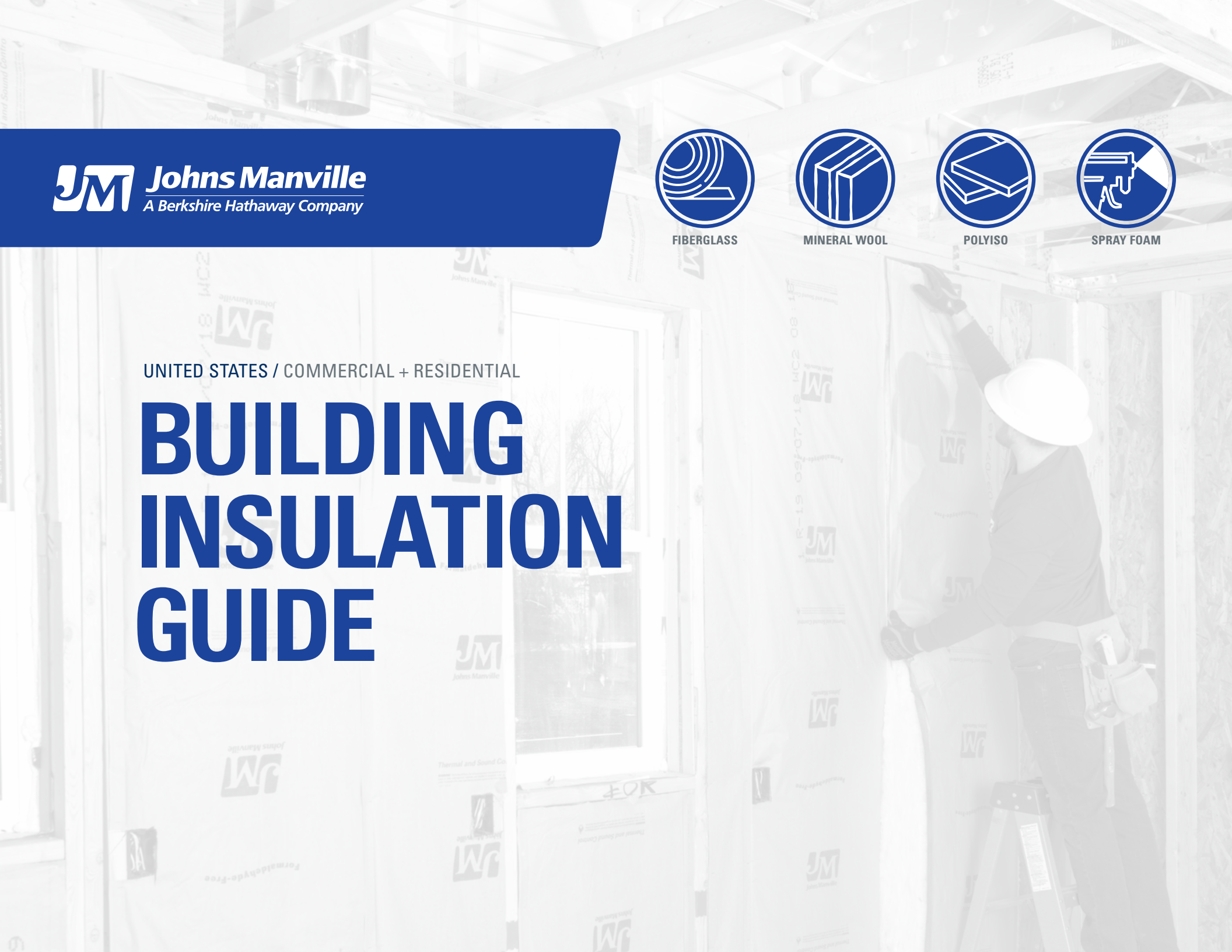
Johns Manville
A Berkshire Hathaway Company

FIBERGLASS | MINERAL WOOL | POLYISO | SPRAY FOAM

UNITED STATES / COMMERCIAL + RESIDENTIAL

BUILDING INSULATION GUIDE



ABOUT JOHNS MANVILLE

Here at Johns Manville, we are more than just a supplier. We're a partner you can count on for the long haul. When you choose JM, you get products engineered for quality and performance – plus they're backed by our best-in-class customer support. JM has one of the industry's broadest ranges of insulation solutions that work seamlessly together, so you can meet virtually every demand and get the most from your inventory.

A BERKSHIRE HATHAWAY COMPANY

Johns Manville is proud to be part of Berkshire Hathaway, one of the most respected, financially sound companies in the world. We operate with unquestionable integrity and stability and have unmatched resources to invest in developing future insulation solutions designed to exceed our customers' needs.

MORE THAN 160 YEARS OF EXPERIENCE AT WORK

When Johns Manville was founded in 1858, we focused on developing materials to make diverse environments stronger and more durable, energy efficient, and comfortable. We also believed in building relationships by providing outstanding service and support. The world has changed, but our principles still hold true today.

COMPREHENSIVE INSULATION EXPERTISE AND SUPPORT

JM TechConnect℠ is the single source for JM customers to access comprehensive insulation knowledge and installation advice from our dedicated technical experts – in person, by phone or online. We can help you quickly solve even the most complex insulation challenges. **Connect with us at 800-654-3103.**

INSULA

TABLE OF CONTENTS

*JM insulation products do not contain 100% recycled content. Actual recycled content will vary by product and manufacturing location. Please see specific Product Data Sheet or call 800-654-3103 for more information.

All claims within this document are based on the assumption that these JM products are being properly installed.

FIBERGLASS

Unfaced Fiberglass

BATTS AND ROLLS

Available for wood or steel stud framing. May be used with a separate vapor retarder when moisture control is required.

ADVANTAGES

Thermally Efficient: Effective resistance to heat transfer, with R-values up to R-49.

Formaldehyde-Free: Will not off-gas formaldehyde in the indoor environment.

Sound Control: Reduces sound transmission through exterior and interior wall, floor and ceiling assemblies.

Fire Resistant: Flame Spread of 25 or less and Smoke Developed of 50 or less.

Resilient Inorganic Glass: No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

Superior Performance: Stable bonded-glass fibers will not slump within the wall cavity, settle or break down during normal applications.

AVAILABILITY*

R-Values: R-11 – R-49

Widths: Wood Stud (15" and 23") or Steel Stud (16" and 24")

Lengths: Batts (48", 93", 96" and 105") or Rolls (up to 39'2")

Thicknesses: Various. Engineered for maximum performance within the cavity.

Kraft and Foil-Faced Fiberglass

BATTS AND ROLLS

Helps control moisture in exterior walls.

ADVANTAGES

Thermally Efficient: Effective resistance to heat transfer, with R-values up to R-49 for kraft-faced and up to R-30 for foil-faced.

Formaldehyde-Free: Will not off-gas formaldehyde in the indoor environment.

Sound Control: Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

Fire Resistant: *Foil-faced:* Flame Spread of 75 or less and Smoke Developed of 150 or less. *Kraft-faced:* no rating.

Resilient Inorganic Glass: No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

Superior Performance: Stable bonded-glass fibers will not slump within the wall cavity, settle or break down during normal applications.

AVAILABILITY*

R-Values: R-11 – R-49

Widths: Wood Stud (15" and 23") or Steel Stud (16" and 24")

Lengths: Batts (48", 93", 94", 96" and 105") or Rolls (up to 39'2")

Thicknesses: Various. Engineered for maximum performance within the cavity.

*See complete data sheet at **www.jm.com**. Actual color of products may vary from image. Product image typical of material produced in the U.S.A.

FIBERGLASS

As one of America's most common insulation materials, JM Formaldehyde-free™ thermal and acoustical fiberglass insulation consists of long, resilient glass fibers bonded with a thermosetting resin. **Where to use: walls, ceilings, floors and attics.**

Cavity-SHIELD™

BATTS

For use in multifamily construction in the concealed spaces between floors.

ADVANTAGES

Noncombustible: ASTM E 136, NFPA 13 Section 9.2.1 compliant

Simple Installation: No special equipment required.

Cost-effective: Economical alternative to blow-in insulation.

Formaldehyde-Free: Will not off-gas formaldehyde in the indoor environment.

Sound Control: Reduces transmission of sound through floor or ceiling assemblies.

Fire Resistant: Flame Spread of 25 or less and Smoke Developed of 50 or less (ASTM E84), Class A1.

Resilient Inorganic Glass: No rotting, mildew or deterioration and is noncorrosive to pipes, wiring and sheet metal ducts.

AVAILABILITY*

Widths: 16", 19" and 24"

Lengths: 48"

Thicknesses: 8", 10" and 12"

ComfortTherm®

BATTS AND ROLLS

Wrapped in plastic for dust-free and itch-free handling and installation.

ADVANTAGES

Thermally Efficient: Effective resistance to heat transfer, with R-values up to R-30.

Formaldehyde-Free: Will not off-gas formaldehyde in the indoor environment.

Sound Control: Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

Fire Resistant: Can be left exposed where building codes permit. Flame Spread of 25 or less and Smoke Developed of 50 or less.

Resilient Inorganic Glass: No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

Superior Performance: Stable bonded glass fibers will not slump within the wall cavity, settle or break down during normal applications.

AVAILABILITY*

R-Values: R-13 – R-30

Widths: Wood Stud (15" and 23") Attics and Steel Stud (16" and 24")

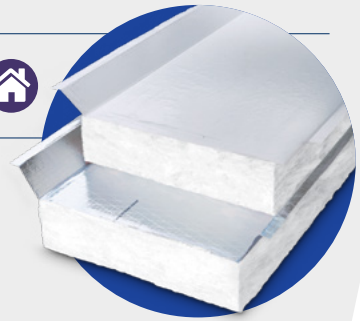
Lengths: Batts (48" and 93")

Thicknesses: Various. Engineered for maximum performance within the cavity.

FIBERGLASS

Panel Deck FSK-25 & PSK† Faced

BATTS



Extra-wide tabs extend the full length along sides for modular roof deck applications.

ADVANTAGES

Thermally Efficient: Effective resistance to heat transfer, with R-values up to R-30.

Formaldehyde-Free: Will not off-gas formaldehyde in the indoor environment.

Sound Control: Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

Fire Resistant: Flame Spread of 25 or less and Smoke Developed of 50 or less. Can be left exposed where building codes permit.

Resilient Inorganic Glass: No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

Superior Performance: Stable bonded glass fibers will not slump, settle or break down during normal applications.

AVAILABILITY*

R-Values: R-19 – R-30

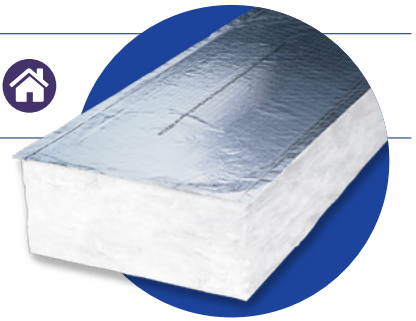
Widths: 23" and 24"

Lengths: 48", 93", and 96"

Thicknesses: 6.25", 6.5", and 10.25"

FSK-25 Faced

BATTS



Flame-resistant faced insulation can be used as a vapor retarder.

ADVANTAGES

Thermally Efficient: Effective resistance to heat transfer, with R-values up to R-38.

Formaldehyde-Free: Will not off-gas formaldehyde in the indoor environment.

Sound Control: Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

Fire Resistant: Flame Spread of 25 or less and Smoke Developed of 50 or less. Can be left exposed where building codes permit.

Resilient Inorganic Glass: No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

Superior Performance: Stable bonded glass fibers will not slump within the wall cavity, settle or break down during normal applications.

AVAILABILITY*

R-Values: R-11 – R-38

Widths: 15", 16" and 24"

Lengths: 48", 93", and 96"

Thicknesses: Various. Engineered for maximum performance within the cavity.

†Polypropylene-scrim-kraft.

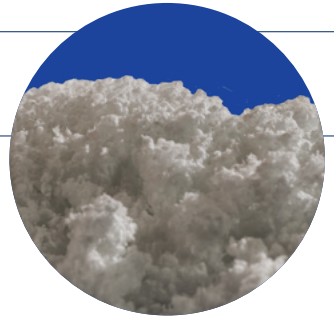
*See complete data sheet at **www.jm.com**. Actual color of products may vary from image. Product image typical of material produced in the U.S.A.

FIBERGLASS

As one of America's most common insulation materials, JM Formaldehyde-free™ thermal and acoustical fiberglass insulation is comprised of long, resilient glass fibers bonded with a thermosetting resin. **Where to use: walls, ceilings, floors and attics.**

JM Climate Pro®/JM Attic Protector®

BLOW-IN FIBERGLASS



Fits hard-to-reach cavities and corners for easier and faster installation.

ADVANTAGES

Easy Installation: Insulates attics or spaces of all shapes and sizes without cutting or fitting.

Complete Coverage: Effective in tight spaces, areas with large amounts of cross-bridging or small gaps and voids.

Thermally Efficient: Effective resistance to heat transfer. No settling; no loss of R-value following installation.

Formaldehyde-Free: Will not off-gas formaldehyde in the indoor environment.

Sound Control: Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

Fire Resistant: Flame Spread of 5 or less and Smoke Developed of 5 or less.

Resilient Inorganic Glass: No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

Superior Performance: Stable bonded glass fibers will not slump, settle or break down during normal applications.

JM Spider® Plus

BLOW-IN FIBERGLASS

Fibers interlock into cavities to fill gaps and voids with no adhesive or netting.

ADVANTAGES

Fast Drying: Dries immediately once installed.

Complete Coverage: Effective in tight spaces, areas with large amounts of cross-bridging or small gaps and voids.

Thermally Efficient: Effective resistance to heat transfer, with R-values up to R-25 in a 2'x 6' steel-stud cavity, and up to R-23 in a 6" wood-stud cavity.

Formaldehyde-Free: Will not off-gas formaldehyde in the indoor environment.

Sound Control: Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

Fire Resistant: Flame Spread of 5 or less and Smoke Developed of 5 or less.

Resilient Inorganic Glass: No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

FIBERGLASS

FIBERGLASS SPECIFICATION COMPLIANCE

Product	ASTM Standards	Flame Spread ASTM E84	Smoke Development ASTM E84	Critical Radiant Flux ASTM E970	Water Vapor Permeance Facing ASTM E96	Water Vapor Sorption ASTM C1104	Odor Emission ASTM C1304	Corrosiveness ASTM 665	Fungi Resistance ASTM C1388	VOC Emissions ASTM ES Section 01350	Combustion Characteristics ASTM E136
Unfaced Fiberglass	**ASTM C665, Type I**	≤25	≤50	>0.12 W/cm^2 (0.11 Btu/ft^{2}s)	N/A	5% or less by weight	Pass	Pass	Pass	Pass	Pass
Kraft-Faced Fiberglass	**ASTM C665, Type II, Class C, Category 1**	N/A	N/A		1.0 Perms (57 ng/Pa-s-m^2)						N/A*
Foil-Faced Fiberglass	**ASTM C665, Type III, Class B, Category 1**	≤75	≤150		0.05 Perms (3 ng/ Pa-s-m^2)						
Cavity-SHIELD	**ASTM C665, Type I**	≤25	≤50		N/A						Pass
ComfortTherm Fiberglass	**ASTM C665, Type II, Class A, Category 1** [Standard ComfortTherm is Category 1 (vapor retarder).]				<0.5 Perms (29 ng/Pa-s-m^2)						N/A*
Panel Deck FSK-25	**ASTM C665, Type III, Class A, Category 1**				0.05 Perms (3 ng/ Pa-s-m^2)						
FSK-25 Faced											
Panel Deck PSK	**ASTM C665, Type II, Class A, Category 1**				0.1 Perms (6 ng/Pa-s-m^2)						
JM Climate Pro Blow-In/ JM Attic Protector	**ASTM C764, Type I**	≤5	≤5		N/A						Pass
JM Spider Plus											

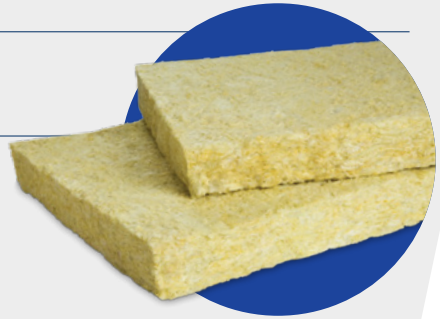
JM Fiberglass Batts and Rolls have been tested by an independent third-party laboratory, and meet the labeled R-value as required by the Federal Trade Commission (FTC).

*Fiberglass is noncombustible

MINERAL WOOL

TempControl®

BATTS



Provides thermal comfort when used in exterior walls, basements and heated crawl spaces.

ADVANTAGES

Sound Control: Absorbs sound and improves wall assembly STC ratings by up to 10 dB.

Thermally Efficient: Effective resistance to heat transfer with R-values up to R-30.

Fire Resistant: Melting point in excess of 2000°F (1093°C). Flame Spread of 0 and Smoke Developed of 0.

Durable Inorganic Fibers: No growth of fungi. No sustaining of vermin.

AVAILABILITY*

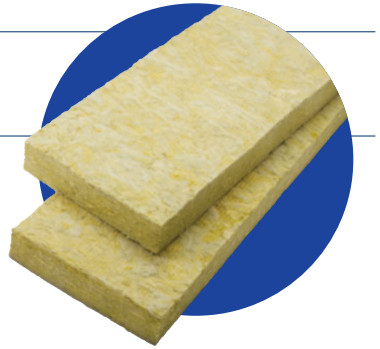
R-Values: R-15, R-23 and R-30

Sizes: Wood Stud (15.25" x 47", 23" x 47") or Steel Stud (16" x 48", 24" x 48")

Thicknesses: 3.5", 5.5" and 7.25"

Sound & Fire Block®

BATTS



Reduces unwanted noise and delays fire from spreading between floors and rooms.

ADVANTAGES

Sound Control: Absorbs sound and improves wall assembly STC ratings by up to 10 dB.

Fire Resistant: Melting point in excess of 2000°F (1093°C). Flame Spread of 0 and Smoke Developed of 0.

Durable Inorganic Fibers: No growth of fungi. No sustaining of vermin.

AVAILABILITY*

Sizes: 15.25" x 47"

Thicknesses: 3"

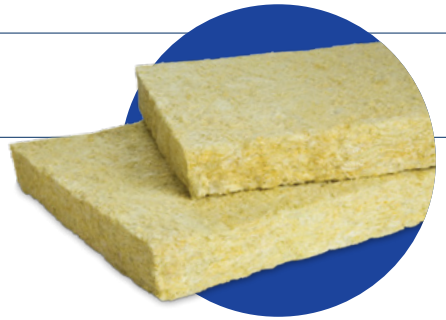
*See complete data sheet at **www.jm.com**. Actual color of products may vary from image. Product image typical of material produced in the U.S.A.

MINERAL WOOL

JM Mineral Wool's performance is similar to fiberglass, but it is made from inorganic fibers that are developed from basalt (a type of volcanic rock).
Where to use: interior and exterior walls, basement walls and heated crawl spaces.

MinWool® Sound Attenuation Fire Batts (SAFB)

BATTS



Reduces sound transmission with lightweight, flexible batts.

ADVANTAGES

Sound Control: Absorbs sound and can improve wall assembly STC ratings by up to 10 dB.

Fire Resistant: Melting point in excess of 2000°F (1093°C). Flame Spread of 0 and Smoke Developed of 0.

Durable Inorganic Fibers: No growth of fungi. No sustaining of vermin.

AVAILABILITY*

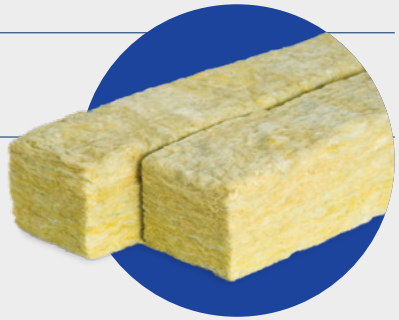
Sizes: 16" x 48" and 24"x 48"

Thicknesses: 1.5"– 8"

(Special sizes and thicknesses available upon request. Minimum order quantities may apply.)

MinWool® Safing

BATTS



Provides a fire-rated seal when installed between spandrel panel and floor slab.

ADVANTAGES

Fire Resistant: Melting point in excess of 2000°F (1093°C).

Durable Inorganic Fibers: No growth of fungi. No sustaining of vermin.

(Available in Unfaced and Faced)

AVAILABILITY*

Sizes: 24"x 48"

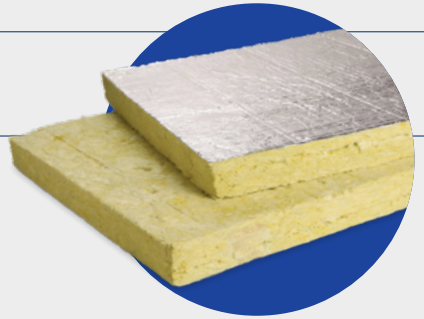
Thicknesses: 4"

(Special sizes and thicknesses available upon request. Minimum order quantities may apply.)

MINERAL WOOL

MinWool® Curtainwall

BOARDS



Provides superior fire resistance through curtainwall spandrel systems.

ADVANTAGES

Fire Resistant: Melting point in excess of 2000˚F (1093˚C).

Unfaced: Flame Spread of 0 and Smoke Developed of 0.

Faced: Flame Spread of 25 or less and Smoke Developed of 5 or less.

Sound Control: Excellent sound absorption to reduce sound transmission.

Durable Inorganic Fibers: No growth of fungi. No sustaining of vermin.

Densities: Curtainwall 40 (4.0 pcf) and Curtainwall 80 (8.0 pcf).

(Available in Unfaced and Faced)

AVAILABILITY*

Size: 24"x 48"

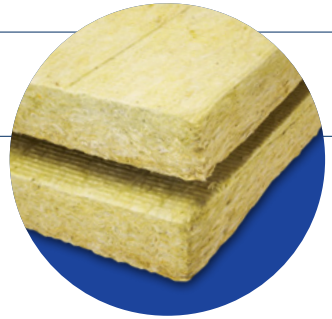
Thicknesses: 1.5"– 7"

Nominal Density: 4 pcf and 8 pcf

(Special sizes and thicknesses available upon request. Minimum order quantities may apply.)

JM CladStone™ Water & Fire Block

BOARDS



Flame-resistant continuous insulation for rainscreen applications.

ADVANTAGES

Water-Repellent: Repels water to ensure drainage when applied as part of a proper exterior wall cavity system.

Fire Resistant: Melting point in excess of 2000˚F (1093˚C). Flame Spread of 0 and Smoke Developed of 0.

Durable Inorganic Fibers: No growth of fungi. No sustaining of vermin.

Densities: CladStone 45 (4.5 pcf), CladStone 60 (6.0 pcf), CladStone 80 (8.0 pcf), and CladStone 110 (11.0 pcf)

AVAILABILITY*

Sizes: 16" x 48" and 24" x 48"

Thicknesses: 1"– 7"†

Actual Density: 4.5 pcf, 6.0 pcf, 8.0 pcf, and 11.0 pcf

(Special sizes and thicknesses available upon request. Minimum order quantities may apply.)

†Available thicknesses vary based on density. Please visit www.jm.com for more details.

*See complete data sheet at **www.jm.com**. Actual color of products may vary from image. Product image typical of material produced in the U.S.A.

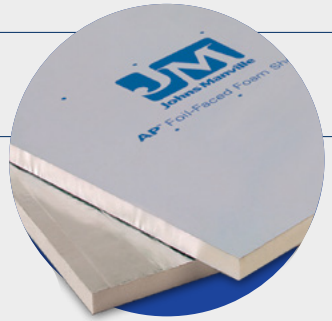
JM Mineral Wool's performance is similar to fiberglass, but it is made from inorganic fibers that are developed from basalt (a type of volcanic rock).
Where to use: interior and exterior walls, basement walls and heated crawl spaces.

MINERAL WOOL SPECIFICATION COMPLIANCE

Product	ASTM Standards	Thermal Resistance ASTM C518	Flame Spread ASTM E84	Smoke Development ASTM E84	Water Vapor Permeance Facing ASTM E96	Water Vapor Sorption ASTM C1104	Odor Emission ASTM C1304	Corrosiveness ASTM C665	Fungi Resistance ASTM C1338	Combustion Characteristics ASTM E136	ASTM C612	ASTM C356	ASTM C1335
TempControl®	ASTM C665 Type 1	R-15, R-23, R-30	0	0	N/A	5% or less by weight	Pass	Pass	Pass	Pass	N/A	Linear shrinkage <2% 1200°F (650° C)	Shot content less than 25%
Sound & Fire Block®		R-3.7 per inch											
MinWool® SAFB						<1% by weight; <0.02% by volume at 120°F (49°C), 95% RH							
MinWool® Safing	ASTM C612 Type 1A-IVB	R-4–R-4.2 per inch	*Unfaced* 0; *Faced* ≤25	*Unfaced* 0; *Faced* ≤5	0.02 Perms, maximum						Type 1–4		
MinWool® Curtainwall 40 | 80													
MinWool® Window Wall													
CladStone™ Water & Fire Block 45 | 60	ASTM C612 Type 1A-IVB	R-4.3 per inch for 45 and 60, R-4.2 for 80 and 110	0	0	50 Perms as tested	Absorbs 0.03% by volume					Type IA, IB, II, III, IVA, IVB	Linear shrinkage <2% 1200°F (650°C)	Shot content less than 25%
CladStone™ Water & Fire Block 80 | 110						Absorbs 0.11% by volume							

POLYISO CONTINUOUS INSULATI

AP™ Foil-Faced Continuous Insulation



Provides moisture, heat and air control, and eliminates major thermal bridges that cause heat loss.

ADVANTAGES

Thermally Efficient: One of the highest energy efficiencies, inch for inch, with effective resistance to heat transfer.

Water-Resistive Barrier: Meets the ICC-ES AC71 acceptance criteria.

Vapor Barrier: Class I vapor retarder at one inch.

Air Barrier: Meets the Air Barrier Association of America boardstock criteria, when properly installed.

Lightweight: Easy to handle and may be cut with a utility knife or saw.

AVAILABILITY*

R-Values: R-2.9–R-28

Sizes: 48" x 96", 48" x 108" and 48" x 120"

Thicknesses: 0.5"– 4.5"

Facings: Printed silver on one side, non-printed opaque white on the other

AP™ Foil25 Continuous Insulation

A rigid insulation solution with higher compressive strength.

ADVANTAGES

Thermally Efficient: Inch for inch, polyiso has one of the highest energy efficiencies.

Water-R esistive Barrier: Meets ICC-ES AC71 acceptance criteria.

Vapor Barrier: Class I vapor retarder.

Air Barrier: Meets the Air Barrier Association of America boardstock criteria when properly installed.

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

AVAILABILITY*

R-Values: R-10–R-19

Sizes: 48" x 96", 48" x 108" and 48" x 120"

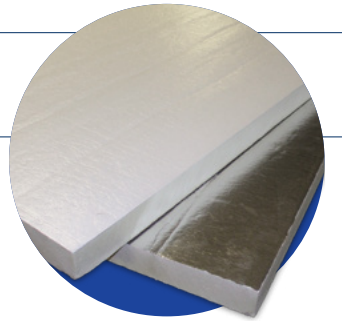
Thicknesses: 1.65"– 3"

Facings: Printed silver on one side, non-printed opaque white on the other

*See complete data sheet at **www.jm.com**. Actual color of products may vary from image. Product image typical of material produced in the U.S.A.

Rigid polyisocyanurate foam sheathing insulation for use in commercial and residential construction where continuous insulation and/or high thermal efficiency is required. **Where to use: *AP™ Foil and AP™ Foil25:* interior and exterior walls, ceilings and crawl spaces; *CI Max®:* exposed interiors, masonry walls and below-grade basement walls.**

CI Max® Continuous Insulation



High-performing rigid foam sheathing designed for exposed interior applications.

ADVANTAGES

Thermally Efficient: One of the highest energy efficiencies, inch for inch. Effective resistance to heat transfer, with R-values up to R-26.

Vapor Barrier: Maintains a minimum thickness of one inch and qualifies as a Class I vapor retarder.

Lightweight: Easy to handle and may be cut with a utility knife or saw.

AVAILABILITY*

R-Values: R-2.9 – R-26 **Sizes:** 48" x 96" **Thicknesses:** 0.5" – 4" **Facings:** Non-printed white or non-printed silver

POLYISO CONTINUOUS INSULATION SPECIFICATION COMPLIANCE

Product	ASTM Standards	Flame Spread ASTM E84	Smoke Development ASTM E84	Water Vapor Transmission ASTM E96	Compressive Strength ASTM D1621	Dimensional Stability ASTM D2126	Water Absorption ASTM C209	Service Temperature	R-Value / Thickness
AP™ Foil-Faced Continuous Insulation	ASTM C1289 Type I, Class 1	≤25	≤ 450	0.05 Perms (3 ng/Pa-s-m²)	≥16 psi (110 kPa)	N/A	0.1% volume	-100 to 250°F	0.5" = R-2.9 1" = R-6 1.65" = R-10 2" = R-13 3" = R-19 4" = R-26
AP™ Foil25 Continuous Insulation				0.05 Perms (3 ng/Pa-s-m²)	≥25psi (172 kPa)				
CI Max® Foam Continuous Insulation				0.02 Perms (1.4 ng/Pa-s-m²)	≥16 psi (110 kPa)		<0.6% volume		

SPRAY FOAM

JM Corbond® IV

SPRAY POLYURETHANE FOAM

Premium closed-cell, HFO blown product delivers high R-value per inch for superior thermal performance.

ADVANTAGES

HFO Blowing Agent: Zero ODP, with low GWP.

Complete Coverage: Expands and adheres without shrinking or settling.

Energy Efficient: Reduces air and moisture infiltration to the building envelope and provides continuous coverage for high thermal performance.

Air Barrier: Seals gaps and prevents leaks when installed at 1" thickness or more.

Moisture Performance: Resists mold growth. Meets current vapor retarder codes as a Class II vapor retarder.

Wide Application Temperature Range: Can be applied between 25°F and 120°F, delivering consistent performance with seasonal versatility.

Faster Installation: Spray easily in a single pass from a minimum of 0.5" to a maximum of 4". Multiple immediate passes, with no wait time, may also be applied.*

Commercial Approvals: NFPA 285 assembly approvals. Appendix X approval for application in unoccupied attics and crawl spaces without a prescriptive ignition barrier or coating.

Exceptional High Yield: 5K BFT/set†

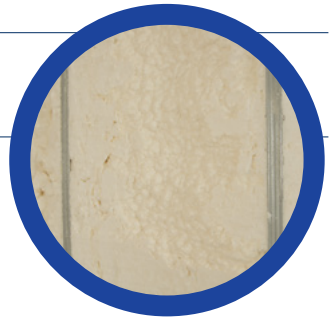
AVAILABILITY*

R-Values: R-7 per inch

Thicknesses: May be applied in a single pass from a minimum of 0.5" to a maximum of 4.0".

JM Corbond® Open Cell No Mix

SPRAY POLYURETHANE FOAM



Lower-density, nonstructural, open-cell SPF that delivers high yield at an excellent value and doesn't require mixing.

ADVANTAGES

Energy Efficient: Helps to improve energy efficiency by filling in gaps and cracks while creating an air seal.

Air Barrier: Expands 120 times its volume to seal voids, gaps and crevices. Air-impermeable at 3.75".

Sound Transmission: Performs well acoustically when used in an assembly.

Adhesion: Exceptional when properly installed.

Installation: Provides high yield with superior sprayability at an exceptional value. No mixing required.

Exceptional High Yield: 17K BFT/set‡

AVAILABILITY*

R-Values: R-3.8 per inch

Thicknesses: May be applied in passes of uniform thickness from a minimum of 1" to a maximum of 12".

*See complete data sheet at **www.jm.com**. Actual color of products may vary from image. Product image typical of material produced in the U.S.A.

†Average 5,000 board feet applied to a dry, clean, sound (OSB) substrate at 75°F while being constantly mixed
‡Average 17,000 board feet applied to a dry, clean, sound (OSB) substrate at 75°F while being constantly mixed

Johns Manville spray foam delivers high yield, superior performance and exceptional sprayability, making it an ideal choice for air-sealing and insulating energy-efficient buildings. **Where to use: interior and exterior walls, unvented and vented attics, floors, ceilings and crawl spaces.**

JM Corbond® High Yield Open Cell

SPRAY POLYURETHANE FOAM

Lower-density, nonstructural, open-cell SPF delivers the highest yield of any JM Corbond open-cell product.

ADVANTAGES

Energy Efficient: Helps to improve energy efficiency by filling in gaps and cracks while creating an air seal.

Air Barrier: Air impermeable at 3.5".

Sound Transmission: Performs well acoustically when used in an assembly.

Installation: Provides exceptional yield with superior sprayability at an excellent value. Meets requirements for application without an ignition barrier in unoccupied and unvented attics when properly installed.

Exceptional High Yield: 20K BFT/set[§]

AVAILABILITY*

R-Values: R-3.6 per inch

Thicknesses: May be applied in passes of uniform thickness from a minimum of 1" to a maximum of 12".

SPRAY FOAM SPECIFICATION COMPLIANCE

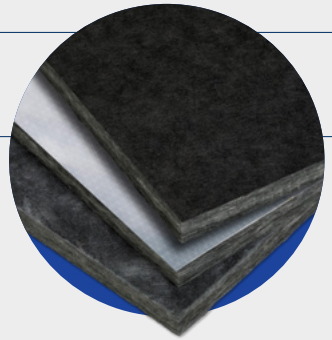
Product	SPF Acceptance Criteria ASTM AC377	Flame Spread ASTM E84	Smoke Development ASTM E84	Fungi Resistance ASTM C1388	Dimensional Stability ASTM D2126	Nominal Density ASTM D1622	Open-Cell Content ASTM 1940	Closed-Cell Content ASTM D6226	Compressive Strength (1") ASTM D1621	Water Absorption ASTM D2842	Water Vapor Transmission ASTM E96	Air Permeance ASTM E2178-03	Sound Transmission ASTM E90-90 & ASTM E413-87
JM Corbond IV	Pass	≤25	≤450	Pass	<15% change in volume	2.0 pcf	N/A	>90%	36 psi	0.9%	0.61 Perms @ 1.5"	0.00055 (L/s)/m at 75 Pa	36 (STC)
JM Corbond Open Cell						0.4–0.5 pcf	>92%	N/A	N/A	N/A	N/A	< 0.02 (L/s)/m	38 (STC)
JM Corbond High Yield Open Cell													

[§]Average 20,000 board feet applied to a dry, clean, sound (OSB) substrate at 75°F while being constantly mixed

SPECIALTY

Insul-SHIELD® Black Boards

UNFACED, FACED, FSK-FACED



Thermal and acoustical fiberglass insulating boards for custom curtainwall applications.

ADVANTAGES

Acoustically Efficient: Reduces transmission of sound through roofs, ceilings, floors and walls.

Fire Resistant: Flame Spread of 25 or less and Smoke Developed of 50 or less.

Moisture Resistant: FSK vapor-retarder facings resist water vapor transmission.

Noncorrosive: Prevents acceleration of corrosion to pipes, wiring and metal studs.

Durable: Will not rot, mildew or otherwise deteriorate, preventing slumping and uninsulated voids.

Easy to Handle: Lightweight; maintains its physical integrity during handling.

AVAILABILITY*

R-Values: R-4.3–R-13.0, depending on thickness and density

Sizes: 24" x 48" and 48" x 96"

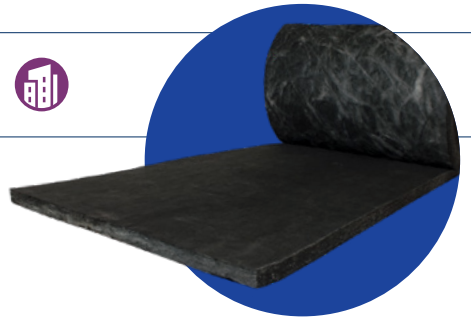
Thicknesses: 1" – 3"

Facings: Unfaced, FSK-Faced and Black Mat

Density: 3.0 pcf

Insul-SHIELD® Black Rolls

FACED



Opaque surface absorbs light, eliminating concern about backscatter.

ADVANTAGES

Acoustically Efficient: Reduces transmission of sound through ceilings and walls.

Fire Resistant: Flame Spread of 25 or less and Smoke Developed of 50 or less.

Noncorrosive: Prevents acceleration of corrosion to pipes, wiring and metal studs.

Durable: Will not rot, mildew or otherwise deteriorate, preventing slumping and uninsulated voids.

Easy to Handle: Maintains its physical integrity during handling.

AVAILABILITY*

R-Values: R-4.2 at 1", R-8 at 2"

Sizes: 48" x 50' and 48" x 100'

Thicknesses: 1" and 2"

Facing: Black

*See complete data sheet at **www.jm.com**. Actual color of products may vary from image. Product image typical of material produced in the U.S.A.

Made from inorganic glass fibers and bonded with a thermosetting resin, JM Insul-SHIELD® Black is a series of flexible, semi-rigid or rigid thermal and acoustical fiberglass boards for custom curtainwall applications. **Where to use: acoustical ceilings, recording studios, curtainwall cavities and dark applications, such as movie theaters and restaurants.**

INSUL-SHIELD®
SPECIFICATION COMPLIANCE

Product	Flame Spread ASTM E84	Smoke Development ASTM E84	Max Use Temp ASTM C411	Water Vapor Permeance Facing ASTM E96	Water Vapor Sorption ASTM C1104	Odor Emission ASTM C1304	Corrosiveness ASTM C665	Fungi Resistance ASTM C1388	0% Linear Shrinkage ASTM C356
Unfaced Boards	≤25	≤50	250°F	N/A	5% or less by weight	Pass	Pass	Pass	None
Faced Boards									
FSK-Faced Boards				0.05 Perms (3 ng/Pa-s-m²)					
Faced Rolls				N/A					

SPECIALTY

GoBoard® Tile Backer Board

Durable, ultra lightweight, waterproof tile backer board.

ADVANTAGES

Fast Installation: Complete tile projects in half the time or less.

Ultra Lightweight: Up to 80% lighter than cement boards, yet engineered for strength and durability.

Easy to Cut, Handle and Install: Can be quickly cut right where it's installed with a basic utility knife without crumbling or disintegrating.

Waterproof: Seal only the board joints and fastener locations with a waterproof sealant for a waterproof tile assembly.

AVAILABILITY*

R-Values: R-1.2 – R-10

Sizes: 3' x 5', 4' x 8' and 4' x 64"

Board Weight: 0.4psf to 1psf (psf is lbs/ft2)

Thicknesses: 0.25" (floors and countertops), 0.5" and 0.625" (walls, showers, ceilings and floors), 1", 1.5" and 2" (benches, shelves, tub surrounds, vanities and countertops)

GoBoard® PRO Tile Backer Board

All the features you enjoy with original GoBoard, plus more. Developed for pro contractor and channel distribution.

ADVANTAGES

Fast Installation: Complete steam shower tile projects in half the time or less with no mess or fiberglass irritation.

Ultra Lightweight: Up to 80% lighter than cement boards, yet engineered for durability with increased overall board strength.

Easy to Cut, Handle and Install: Simply cut with a utility knife and attach with GoBoard Fasteners.

Waterproof Built-in: Seal only the board joints and fastener locations for a waterproof tile assembly per GoBoard PRO installation instructions.

AVAILABILITY*

R-Values: R-2.3

Size: 4' x 64" panel size

Board Weight: 0.40 lbs/ft^2

Thickness: 0.5"

*See complete data sheet at **www.jm.com**. Actual color of products may vary from image. Product image typical of material produced in the U.S.A.

GoBoard® is an ultra lightweight yet durable, waterproof alternative to cement and other heavy tile backer boards.
Where to use: floors, countertops, walls, showers, ceilings, tub surrounds and vanities.

GoBoard® Shower Pan System

Time-saving versatile shower system that offers easy-to-do on-site shower pan customization.

ADVANTAGES

Fast Installation: Complete shower tile projects in half the time or less.

Ultra Lightweight: Up to 80% lighter than cement boards, yet engineered for strength and durability.

Easy to Cut, Handle and Install: Can be quickly cut right where it's installed with a basic utility knife without crumbling or disintegrating.

Waterproof: Seal only the board joints and fastener locations with a waterproof sealant for a waterproof tile assembly.

AVAILABILITY*

R-Values: R-1.2 – R-10

Sizes: 3' x 5' and 4' x 8'

Board Weight: 0.4psf to 1psf (psf is lbs/ft²)

Wedges: 48" x 48", 1/4" per ft pre-sloped

Curbs: 3.5" x 1.5" x 48"

Point Drain: Drain body, risers and grates

Membranes: Waterproofing, vapor barrier and crack isolation

GOBOARD SPECIFICATION COMPLIANCE

Product	Dimensions (feet) ASTM C473	Thickness (inches) ASTM C473	Board Weight (lbs/ft²)	R-Value (°F·ft²·h/BTU) ASTM C518	Compressive Strength (avg. psi) ASTM D2394	Moisture Movement (%) ASTM D1037	Surface Burning Characteristics[1] ASTM E84	Waterproof ASTM D4068	WVT Permeance (Perms) ASTM E96	Resistance to Fungi/Bacteria ASTM G21/G22	Freeze Thaw ASTM C666	Robinson Floor Test ASTM C627
GoBoard® (.25")	3' x 5', 4' x 8'	0.26	0.40	1.2	300	<0.07	Pass	Pass[2]	<1	No Growth	>25	Light Commercial
GoBoard® (.5")	3' x 5', 4' x 8', 4' x 64"	0.49	0.50	2.3	250							
GoBoard® (.625")	4' x 8'	0.61	0.58	2.9								N/A
GoBoard® (1", 1.5", 2")	4' x 8'	1.0, 1.5, 2.0	0.62, 0.81, 1.0	5, 7.5, 10	125			Pass[3]				
GoBoard® Wedge	4' x 4'	0.60	0.58	2.9	200			Pass[2]				Residential
GoBoard® Curb	3.5" x 2.5" x 48"	N/A	N/A	N/A	125			Pass[3]				N/A
GoBoard® PRO (.5")	4' x 64"	.49	0.40	2.3	300			Pass[2]	<0.5[3]			Light Commercial

[1]Per International Building Code Requirements, [2]ANSI 118.10 certified, [3]Pending

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JM is a single supplier for all your insulation needs. Receive the complete combination of products your project requires, all on one truckload.

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