



# RESIDENTIAL PRODUCT SELECTOR GUIDE



**Innovative Home Insulation Solutions**



## FIBER GLASS INSULATION

- ComfortTherm® Batts and Rolls
- EasyFit® Perforated Batts
- Unfaced Batts and Rolls
- Kraft-Faced Batts and Rolls
- JM Climate Pro®/JM Attic Protector® Blow-in Insulation
- JM Spider® Blow-in Insulation

## MINERAL WOOL INSULATION

- TempControl™ Batts
- Sound & Fire Block™ Batts

## SHEATHING INSULATION

- AP™ Foil-Faced Foam Sheathing
- CI Max® Foam Sheathing
- R-Panel® Roof Insulation

## HVAC INSULATION PRODUCTS

- Flexible Air Duct with Flex-Glas® EQ
- Microlite® EQ Fiber Glass Duct Wrap

## SPRAY FOAM INSULATION

- JM Corbond III® Spray Polyurethane Foam
- JM Corbond MCS™ Spray Polyurethane Foam
- JM Open-cell Spray Polyurethane Foam

## HYBRID INSULATION SOLUTIONS

- Custom Insulation Solutions

### JM ICON KEY



Thermal



Acoustical



Fire Resistant



Moisture Control



Recycled Content



Formaldehyde-free™



Air Control

## MATERIALS MATTER

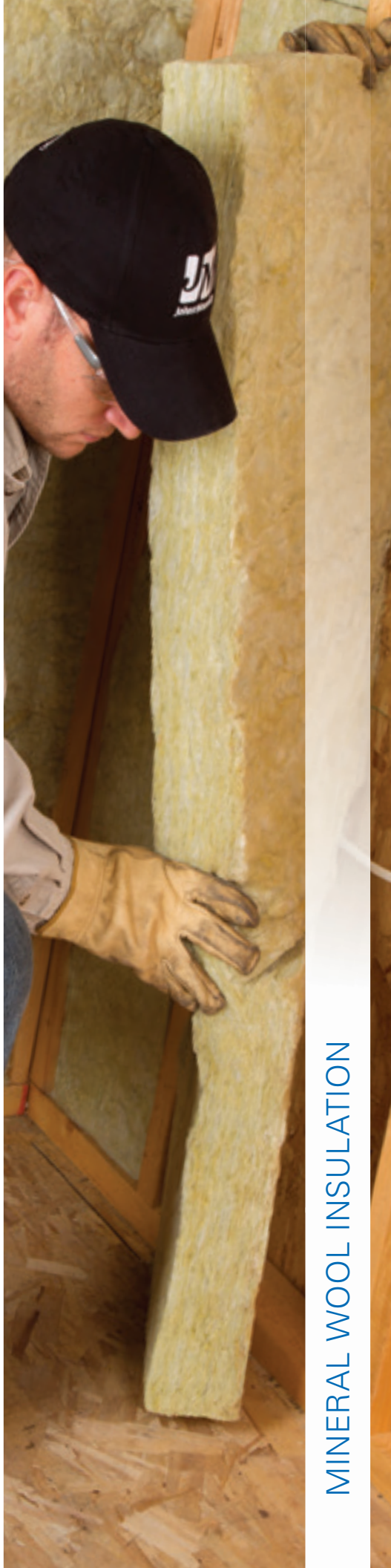
At Johns Manville, everyone in our company is committed to a core principle: Materials Matter. Our focus on performance inspires our research, design and manufacturing teams to consistently deliver quality products that promote more comfortable, healthier and more energy-efficient environments.

## ONE-STOP INSULATION SHOP

JM is the only company to manufacture and offer a complete hybrid solution that includes both spray foam and certified Formaldehyde-free™ fiber glass insulation. This means you can increase energy efficiency, deliver thermal comfort and provide acoustical performance with a single insulation source, no matter what the situation.







MINERAL WOOL INSULATION



SHEATHING INSULATION



SPRAY FOAM INSULATION





## ComfortTherm®

### Plastic-Wrapped Thermal & Sound Control Batts and Rolls

Poly-encapsulated batts designed for various concealed exterior and interior metal- or wood-framed cavities and directly above suspended ceilings. For wall applications, the vapor retarder is placed on the flange side while the remaining sides are perforated for moisture flow. For underfloor applications, the vapor retarder is placed on the side opposite the stapling flange.

#### North American Average Recycled Content:

- 35% post consumer

**Note:** JM ComfortTherm insulation is also available in several R-values with a non-vapor-retarder facing for use where vapor retarders are not appropriate.

#### AVAILABLE\*

| R-VALUE/RSI                     | THICKNESS    | WIDTH                    |
|---------------------------------|--------------|--------------------------|
| <b>Wood Framing</b>             |              |                          |
| R-30/RSI-5.3                    | 10¼" (260mm) | 16" (406mm), 24" (610mm) |
| R-21/RSI-3.7                    | 5½" (140mm)  | 15" (381mm)              |
| R-19/RSI-3.3                    | 6½" (165mm)  | 15" (381mm), 23" (584mm) |
| R-13/RSI-2.3                    | 3½" (89mm)   | 15" (381mm)              |
| R-11/RSI-1.9                    | 3½" (89mm)   | 15" (381mm)              |
| <b>Metal Framing</b>            |              |                          |
| R-19/RSI-3.3                    | 6½" (165mm)  | 16" (406mm), 24" (610mm) |
| R-13/RSI-2.3                    | 3½" (89mm)   | 16" (406mm)              |
| R-11/RSI-1.9                    | 3¾" (92mm)   | 16" (406mm), 24" (610mm) |
| <b>Above Suspended Ceilings</b> |              |                          |
| R-19/RSI-3.3                    | 6½" (165mm)  | 16" (406mm), 24" (610mm) |

\*Please check Product Availability Listing for latest sizing and availability.

#### SPECIFICATION COMPLIANCE

ASTM C665, Type II, Class C, Category 1 (High-perm is Category 2; not classified as a vapor retarder)  
 Surface Burning Characteristics (ASTM E84):  
 • Flame Spread 25 or less  
 • Smoke Developed 50 or less  
 Critical Radiant Flux (ASTM E970): Greater than 0.12 W/cm<sup>2</sup> (0.11 Btu/ft<sup>2</sup>-s)  
 Water Vapor Permeance (ASTM E96) Facing: 0.5 Perms (29 ng/Pa-s-m<sup>2</sup>)  
 Water Vapor Sorption (ASTM C1104): 5% or less by weight  
 Odor Emission (ASTM C1304): Pass.  
 Corrosiveness (ASTM C665, 13.8): Pass.  
 Fungi Resistance (ASTM C1338): Pass.  
 VOC Emissions (ES Section 01350): Pass.



## EasyFit®

### Perforated Thermal & Sound Control Batts

Pre-cut perforated batts come in a variety of sizes and R-values for use in nonstandard-width cavities. Each package also includes un-cut batts for standard-width cavities. Eliminates time-consuming hand-cutting and enables a faster, easier and better-performing installation.

#### North American Average Recycled Content:

- 35% post consumer

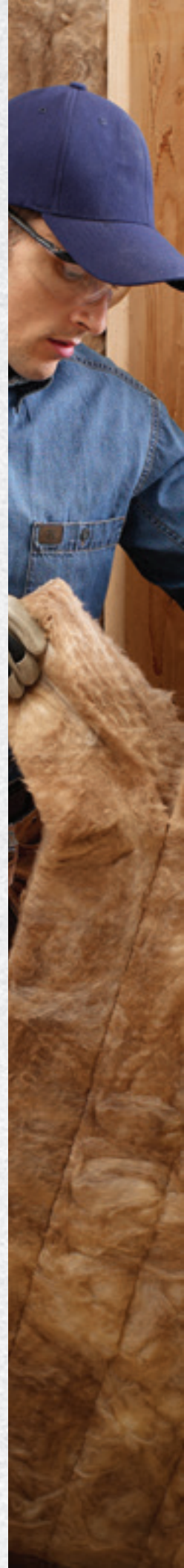
#### AVAILABLE\*

| R-VALUE/RSI                       | THICKNESS   | WIDTH       |
|-----------------------------------|-------------|-------------|
| <b>Wood Framing – Kraft Faced</b> |             |             |
| R-21/RSI-3.7                      | 5½" (140mm) | 15" (381mm) |
| R-19/RSI-3.3                      | 6½" (165mm) | 15" (381mm) |
| R-15/RSI-2.6                      | 3½" (89mm)  | 15" (381mm) |
| R-13/RSI-2.3                      | 3½" (89mm)  | 15" (381mm) |
| <b>Wood Framing – Unfaced</b>     |             |             |
| R-19/RSI-3.3                      | 6½" (165mm) | 15" (381mm) |
| R-13/RSI-2.3                      | 3½" (89mm)  | 15" (381mm) |

\*Please check Product Availability Listing for latest sizing and availability.

#### SPECIFICATION COMPLIANCE

ASTM C 665, Type I (Unfaced), Type II, Class C, Category 1 (Kraft-faced)  
 Surface Burning Characteristics (ASTM E84):  
 • Flame Spread 25 or less  
 • Smoke Developed 50 or less  
 Critical Radiant Flux (ASTM E970): Greater than 0.12 W/cm<sup>2</sup> (0.11 Btu/ft<sup>2</sup>-s)  
 Water Vapor Sorption (ASTM C1104): 5% or less by weight  
 Odor Emission (ASTM C1304): Pass.  
 Corrosiveness (ASTM C665, 13.8): Pass.  
 Fungi Resistance (ASTM C1338): Pass.  
 VOC Emissions (ES Section 01350): Pass.







## Unfaced

### Thermal & Sound Control Batts and Rolls

Light-density unfaced batts for installation within wall cavities, floors and ceilings. Available for metal or wood framing. May be used with a separate vapor retarder when moisture control is required. High-performance cathedral ceiling batts also available. Available in R-values ranging from R-11 to R-38.

#### North American Average Recycled Content:

- 35% post consumer

#### AVAILABLE\*

| R-VALUE/RSI          | THICKNESS    | WIDTH                                 |
|----------------------|--------------|---------------------------------------|
| <b>Wood Framing</b>  |              |                                       |
| R-38/RSI-6.7         | 12" (305mm)  | 16" (406mm), 24" (610mm)              |
|                      | 13" (330mm)  | 16" (406mm), 24" (610mm)              |
| R-30/RSI-5.3         | 10¼" (260mm) | 16" (406mm), 24" (610mm)              |
| R-21/RSI-3.7         | 5½" (140mm)  | 15" (381mm), 23" (584mm)              |
| R-19/RSI-3.3         | 6½" (165mm)  | 15" (381mm), 19" (483mm), 23" (584mm) |
| R-15/RSI-3.3         | 3½" (89mm)   | 15" (381mm), 23" (584mm), 23" (584mm) |
| R-13/RSI-2.3         | 3½" (89mm)   | 15" (381mm), 23" (584mm)              |
| R-11/RSI-1.9         | 3½" (89mm)   | 15" (381mm), 23" (584mm)              |
| <b>Metal Framing</b> |              |                                       |
| R-30/RSI-5.3         | 10¼" (260mm) | 16" (406mm), 24" (610mm)              |
| R-21/RSI-3.7         | 5½" (140mm)  | 16" (406mm)                           |
| R-19/RSI-3.3         | 6½" (165mm)  | 16" (406mm), 24" (610mm)              |
| R-13/RSI-2.3         | 3½" (89mm)   | 16" (406mm), 24" (610mm)              |
| R-11/RSI-1.9         | 3¾" (92mm)   | 16" (406mm), 24" (610mm)              |
| N/A**                | 2¾" (70mm)   | 16" (406mm), 24" (610mm)              |

\*Please check Product Availability Listing for latest sizing and availability.

\*\*Sound control for interior walls.

#### SPECIFICATION COMPLIANCE

ASTM C665, Type I

Surface Burning Characteristics (ASTM E84):

- Flame Spread 25 or less
- Smoke Developed 50 or less

Critical Radiant Flux (ASTM E970): Greater than 0.12 W/cm<sup>2</sup> (0.11 Btu/ft<sup>2</sup>-s)

Water Vapor Sorption (ASTM C1104): 5% or less by weight

Odor Emission (ASTM C1304): Pass.

Corrosiveness (ASTM C665, 13.8): Pass.

Fungi Resistance (ASTM C1338): Pass.

VOC Emissions (ES Section 01350): Pass.



## Kraft-Faced

### Thermal & Sound Control Batts and Rolls

Light-density batts with kraft facings for wood-framed construction. Kraft-Faced batts are also available for metal framing. Kraft-Faced batts should be used in concealed applications. Kraft facings provide excellent vapor retarders and are available in R-values ranging from R-11 to R-38.

#### North American Average Recycled Content:

- 35% post consumer

#### AVAILABLE\*

| R-VALUE/RSI                                                                                                                    | THICKNESS    | WIDTH                    |
|--------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|
| <b>Wood Framing – Kraft Faced</b>                                                                                              |              |                          |
| Available from R-11 (RSI-1.9) to R-38 (RSI-6.7) in various widths of 11" (279 mm), 15" (381 mm), 19" (483 mm) and 23" (584 mm) |              |                          |
| <b>Metal Framing – Kraft Faced</b>                                                                                             |              |                          |
| R-30/RSI-5.3                                                                                                                   | 10¼" (260mm) | 16" (406mm), 24" (584mm) |
| R-19/RSI-3.3                                                                                                                   | 6½" (165mm)  | 16" (406mm), 24" (584mm) |
| R-13/RSI-2.3                                                                                                                   | 3½" (89mm)   | 16" (406mm), 24" (584mm) |
| R-11/RSI-1.9                                                                                                                   | 3¾" (92mm)   | 16" (406mm), 24" (584mm) |

\*Please check Product Availability Listing for latest sizing and availability.

#### SPECIFICATION COMPLIANCE

ASTM C665:

- Kraft: Type II, Class C, Category 1

Surface Burning Characteristics (ASTM E84):

- Kraft: not rated for Flame Spread/Smoke Developed

Water Vapor Permeance (ASTM E96)

- Kraft: 1.0 perms (57 ng/Pa-s-m<sup>2</sup>)

Water Vapor Sorption (ASTM C1104): 5% or less by weight

Odor Emission (ASTM C1304): Pass.

Corrosiveness (ASTM C665, 13.8): Pass.

Fungi Resistance (ASTM C1338): Pass.

VOC Emissions (ES Section 01350): Pass.





## JM Climate Pro®/ JM Attic Protector®

### Thermal & Sound Control Blow-in Fiber Glass

JM blow-in Formaldehyde-free™ loose-fill fiber glass insulation is designed for attics. It is noncorrosive and noncombustible. JM Climate Pro insulation is for professionals using large truck-mounted, high-volume production blowing wool machines and for the Blow-In-Blanket® System (BIBS®) for blowing in to fill walls, ceilings and irregular spaces. JM Attic Protector insulation is for the remodeling professional or do-it-yourselfer who uses a portable blowing machine.

#### AVAILABLE

##### R-VALUE

R-11 to R-60

#### JM Climate Pro Insulation – Attics

Installation in attics using a professional-grade blowing machine  
(See package for sq. ft. coverage at each R-value.)

#### JM Climate Pro Insulation – Enclosed Cavities

Blow-In-Blanket System installation in walls, ceilings and floors  
(See package for R-value and sq. ft. coverage at each cavity thickness.)

#### JM Attic Protector Insulation – Attics

Installation in attics using a portable blowing machine  
(See package for sq. ft. coverage at each R-value.)

#### SPECIFICATION COMPLIANCE

ASTM C764, Type I  
Surface Burning Characteristics (ASTM E84 and CAN/ULC S102.2)  
• Flame Spread 25 or less  
• Smoke Developed 50 or less  
Critical Radiant Flux (ASTM E970) Greater than 0.12 W/cm² (0.11 Btu/ft²·s)  
Combustion Characteristics (ASTM E136): Pass.  
Water Vapor Sorption (ASTM C1104): 5% or less by weight  
Odor Emission (ASTM C1304): Pass.  
Corrosiveness (ASTM C764): Pass.  
Fungi Resistance (ASTM C1338): Pass.  
Fungi Resistance (ASTM G21): Pass.  
VOC Emissions (ES Section 01350): Pass.



## JM Spider®

### Thermal & Sound Control Blow-in Fiber Glass

#### Custom Insulation System

Loose-fill fiber glass insulation with a spray adhesive added at the time of installation. The system is designed to help save time while reliably filling all gaps and voids in walls around electrical fixtures, pipes and other obstructions.

#### Installed Without Adhesive

JM Spider insulation can also be installed without adhesive in Drill-and-Fill and BIBS applications. The specially designed fibers are very effective at delivering the desired performance for these types of installs.

#### AVAILABLE

##### R-VALUE

R-13 to R-15 (2x4 cavity)

R-20 to R-23 (2x6 cavity)

(See package for sq. ft. coverage at each R-value.)

JM Spider insulation is available in:

30 lb. bags

JM Spider adhesive is available in:

280 gallon totes

55 gallon drums

#### SPECIFICATION COMPLIANCE

ASTM Standard C764, Type I  
Surface Burning Characteristics (ASTM E84 and CAN/ULC S102.2)  
• Flame Spread 25 or less  
• Smoke Developed Index 50 or less  
Critical Radiant Flux (ASTM E970) Greater than 0.12 W/cm² (0.11 Btu/ft²·s)  
Combustion Characteristics (ASTM E136): Pass.  
Water Vapor Sorption (ASTM C1104) 5% by weight or less  
Odor Emission (ASTM C1304): Pass.  
Corrosiveness (ASTM C764): Pass.  
Fungi Resistance (ASTM C1338): Pass.  
Fungi Resistance (ASTM G21): Pass.  
VOC Emissions (ES Section 01350): Pass.





## TempControl™

### Thermal Control & Fire Delay Mineral Wool Batts

TempControl mineral wool insulation is made from high-density, noncombustible fibers to help delay the spread of fire. It also delivers exceptional thermal performance for the life of a home, reducing heating and cooling bills to save money year-round.

#### AVAILABLE

| PRODUCT          | THICKNESS   | WIDTH        |
|------------------|-------------|--------------|
| R-15 TempControl | 3½" (89mm)  | 15¼" (387mm) |
| R-23 TempControl | 5½" (140mm) | 23" (584mm)  |

#### SPECIFICATION COMPLIANCE

ASTM C665, Type 1  
 ASTM E136: noncombustible  
 IBC (International Building Code): all types  
 Thermal Resistance ASTM C518 R-15, R-23  
 Surface Burning Characteristics (ASTM E84)  
 • Flame Spread 5  
 • Smoke Developed 0  
 Critical Radiant Flux (ASTM E970) Greater than 0.12 W/cm²  
 Water Vapor Sorption (ASTM C1104) Less than 5%  
 Odor Emission (ASTM C1304): Pass.  
 Corrosiveness (ASTM C665): Pass.  
 Fungi Resistance (ASTM C1338): Pass.



## Sound & Fire Block™

### Sound Control & Fire Delay Mineral Wool Batts

Sound & Fire Block mineral wool insulation batts help delay the spread of fire between interior floors and rooms. Made from high-density, noncombustible materials designed for maximum sound absorption, it also reduces noise transfer in the places occupants need it most—between interior walls and in the ceilings and floors.

#### AVAILABLE

| PRODUCT            | THICKNESS | WIDTH        |
|--------------------|-----------|--------------|
| Sound & Fire Block | 3" (76mm) | 15¼" (387mm) |

#### ACOUSTICAL RATINGS FOR COMMON ASSEMBLIES

| ASSEMBLY        | COMPONENTS                                                                                                                                  | RATING |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 2x4 Wood Wall   | 2"x4" wood studs<br>16" o.c., ½" gypsum<br>drywall both sides,<br>resilient channels,<br>3" JM Sound & Fire<br>Block insulation             | STC-47 |
| 2x10 Wood Floor | 2"x10" wood joists<br>16" o.c., 2⅜" OSB<br>subfloor, ½" gypsum<br>drywall, resilient<br>channels, 3" JM<br>Sound & Fire Block<br>insulation | STC-47 |

#### SPECIFICATION COMPLIANCE

Sound Transmission Class (ASTM E90)  
 Surface Burning Characteristics (ASTM E84)  
 • Flame Spread 5  
 • Smoke Developed 0  
 Critical Radiant Flux (ASTM E970) Greater than 0.12 W/cm²  
 Noncombustible (ASTM E136): Pass.  
 Water Vapor Sorption (ASTM C1104): Less than 5%  
 Odor Emission (ASTM C1304): Pass.  
 Corrosiveness (ASTM C665): Pass.  
 Fungi Resistance (ASTM C1338): Pass.





## AP™ Foil-Faced

### Polyisocyanurate Foam Sheathing

Rigid foam sheathing insulation for use in commercial and residential construction where continuous insulation and/or high thermal efficiency is required—behind gypsum board, all siding types, above and below grade exterior walls, above and below grade interior walls, attics and cathedral ceilings, and crawl spaces. Reduces thermal bridging at framing members and is noncorrosive and lightweight. When properly installed, functions as a water-resistive barrier, vapor barrier and air barrier, eliminating the need for additional components. Reflective foil facer on one side, nonreflective foil facer on the other.

#### Approvals

ENERGY STAR® Certification  
ICC-ESR-3398 Thermal, Air Barrier, Water-Resistive Barrier  
ABAA Evaluated Material, Assembly

#### AVAILABLE\*

| R-VALUE/RSI      | THICKNESS   |
|------------------|-------------|
| R-28 (RSI-5.09)  | 4½" (114mm) |
| R-26 (RSI-4.52)  | 4" (102mm)  |
| R-22 (RSI-3.94)  | 3½" (89mm)  |
| R-19 (RSI-3.36)  | 3" (76mm)   |
| R-16 (RSI-2.79)  | 2½" (64mm)  |
| R-13 (RSI-2.21)  | 2" (51mm)   |
| R-9.3 (RSI-1.63) | 1½" (38mm)  |
| R-6.0 (RSI-1.06) | 1" (25mm)   |
| R-4.4 (RSI-0.77) | ¾" (19mm)   |
| R-3.5 (RSI-0.62) | ⅝" (16mm)   |
| R-2.7 (RSI-0.48) | ½" (13mm)   |

\*Please check Product Availability Listing for latest sizing and availability.

#### SPECIFICATION COMPLIANCE

ASTM C1289, Type I, Class 1  
ASTM D1621 Compressive Strength, >16 psi (110 kPa)  
ASTM D2126 Dimensional Stability, 2% max, 7 days (length and width)  
ASTM E96 Moisture Vapor Transmission\*\* < .05 Perms (1.3 ng/P·s·m²)  
ASTM C209 Water Absorption, \*\* 0.1% volume  
ASTM E84 Flame Spread, \*\* ≤25  
Service Temperature: -100°F to 250°F (-73°C to 122°C)  
California State Insulation Quality Standards  
VOC emissions per CA Specification 01350: Pass.

\*\*Foam core tested at 4.5°.



## CI Max®

### Foam Sheathing

Rigid foam sheathing insulation designed for exposed interior use in walls or ceilings in commercial and residential construction. It is made from a uniform closed-cell polyisocyanurate foam core bonded on each side to a silver or white foil and glass mat facer. CI Max is designed for easy installation where high thermal efficiency is required within both new and retrofit interior construction. It is an excellent insulation for interior insulation, masonry walls (above grade and tilt up), below grade basement walls, crawl spaces, framed walls (wood and metal), pre-engineered metal walls or ceilings.

#### Approvals

ENERGY STAR® Certification Pending  
ICC-ESR-3398 Thermal

#### AVAILABLE\*

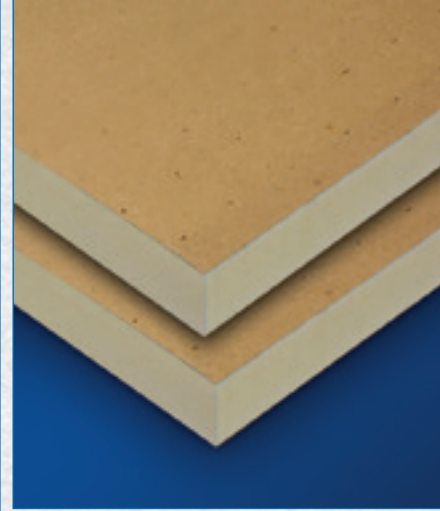
| R-VALUE/RSI      | THICKNESS  |
|------------------|------------|
| R-26 (RSI-4.52)  | 4" (102mm) |
| R-22 (RSI-3.94)  | 3½" (89mm) |
| R-19 (RSI-3.36)  | 3" (76mm)  |
| R-16 (RSI-2.79)  | 2½" (64mm) |
| R-13 (RSI-2.21)  | 2" (51mm)  |
| R-10 (RSI-1.81)  | 1½" (42mm) |
| R-9.6 (RSI-1.69) | 1⅝" (40mm) |
| R-9.3 (RSI-1.63) | 1½" (38mm) |
| R-6.0 (RSI-1.06) | 1" (25mm)  |
| R-4.5 (RSI-0.79) | ¾" (19mm)  |
| R-2.7 (RSI-0.48) | ½" (13mm)  |

\*Please check Product Availability Listing for latest sizing and availability.

#### SPECIFICATION COMPLIANCE

ASTM C1289, Type I, Class 1  
ASTM D1621 Compressive Strength, >16 psi (110 kPa)  
ASTM D2126 Dimensional Stability, 2% max, 7 days (length and width)  
ASTM E96 Moisture Vapor Transmission, 0.02 perm (1.4 ng/P·s·m²)  
ASTM C209 Water Absorption, \*\* <0.6% volume  
ASTM E84 Flame Spread, 25 or less (4")  
ASTM E84 Smoke Development, 450 or less (4")  
NFPA 286 Corner Burn Test  
Service Temperature: -100°F to 250°F (-73°C to 122°C)  
California State Insulation Quality Standards  
VOC emissions per CA Specification 01350: Pass.

\*\*Foam core tested at 4.0°.



## R-Panel®

### Polyisocyanurate Foam Sheathing

Rigid roof insulation board composed of a closed-cell polyisocyanurate foam core bonded in the foaming process to universal fiber glass reinforced facers. R-Panel provides high thermal insulation value over metal, nailable and non-nailable roof decks in built-up, modified bitumen and single-ply membrane roofing systems. It may be applied using hot bitumen, cold adhesives or mechanical fasteners. The universal facer on the top and bottom sides provides a suitable surface for mechanical attachment to a structural deck as well as a suitable surface to apply hot asphalt or cold adhesives.

#### Approvals

FM® Standards 4450/4470 Approvals (refer to FM RoofNav<sup>SM</sup>)  
UL® Standard 790, 263, and 1256 (refer to UL Roofing Materials system directory)  
California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1341  
Third-party certification with the PIMA Quality Mark™ for Long-Term Thermal Resistance (LTTR) Values  
Miami-Dade County Product Control Approved: complies with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code

#### AVAILABLE\*

| LTTR VALUE** | THICKNESS  |
|--------------|------------|
| 23.6/4.16    | 4" (102mm) |
| 19.2/3.39    | 3⅝" (84mm) |
| 17.4/3.06    | 3" (76mm)  |
| 14.4/2.53    | 2½" (64mm) |
| 13.2/2.32    | 2⅛" (59mm) |
| 11.4/2.01    | 2" (51mm)  |
| 9.7/1.71     | 1⅞" (43mm) |
| 8.6/1.51     | 1½" (38mm) |
| 5.7/1.00     | 1" (25mm)  |

\*Please check Product Availability Listing for latest sizing and availability.

\*\* $(^{\circ}\text{F} \cdot \text{ft}^2 \cdot \text{h} / \text{BTU})$ ,  $(^{\circ}\text{K} \cdot \text{m}^2 / \text{W})$  Long-term thermal resistance (LTTR) values were determined in accordance with CAN/ULC S770 at 75°F (24°C).

#### SPECIFICATION COMPLIANCE

ASTM C1289-01, Type II, Class I, Grade 2  
CAN/ULC S704, Type II, Class 3  
ASTM C209 Water Absorption, <1% volume  
ASTM D2126 Dimensional Stability, 2% max, 7 days (length and width)  
ASTM D1621 Compressive Strength 10% Consolidation,\* 20 psi (138 kPa)  
ASTM E96 Moisture Vapor Transmission < 1 Perms (57.5 ng/P·s·m²)  
ASTM D1623 Tensile Strength, 730 psf (35 kPa)  
Service Temperature: -100°F to 250°F (-73°C to 122°C)

\*Also available in 25 psi (172 kPa).





## Flexible Air Duct

### with Flex-Glas® EQ

Flexible air duct with JM Formaldehyde-free™ Flex-Glas EQ fiber glass insulation is flexible, so it's easier and faster to install, and it reduces the homeowner's energy bills because the insulation helps keep the air in the duct at a constant temperature, even if the duct is in an unconditioned space, such as an attic, basement or crawlspace. The fiber glass core reduces noise, so the home stays quieter.

#### North American Average Recycled Content:

- 12% post consumer

**Note:** JM itself does not manufacture flexible air duct. For more information on the availability of flexible air duct made with JM Formaldehyde-free™ Flex-Glas EQ fiber glass insulation, contact your JM representative.

#### AVAILABLE\*

| TYPE | R-VALUE/RSI    |
|------|----------------|
| 100  | R-4.2/RSI-0.74 |
| 130  | R-6.0/RSI-1.06 |
| 135  | R-8.0/RSI-1.41 |

\*Please check Product Availability Listing for latest sizing and availability.

#### SPECIFICATION COMPLIANCE

ASTM Standard C518  
ASTM Standard C553, Type I  
UL 181 Surface Burning Characteristics (ASTM E84 and UL 723)  
• Flame Spread 25 or less  
• Smoke Developed Index 50 or less  
Recognized component label for thermal performance  
Fungi Resistance (ASTM C1338, UL 181): Pass.

**Note:** Specification compliance data in this section are for the JM Formaldehyde-free™ Flex-Glas EQ insulation used in this product.



## Microlite® EQ

### Fiber Glass Duct Wrap

Fiber glass duct wrap insulation is used on the exterior of rectangular and round metal ducts as thermal insulation.

#### Operating Temperature Limit:

250°F (121°C)

#### North American Average Recycled Content:

- 29% post consumer

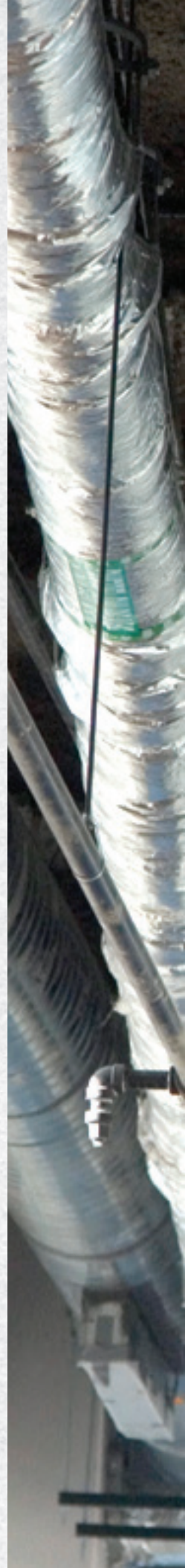
#### AVAILABLE\*

| TYPE | THICKNESS  | R-VALUE/RSI    |
|------|------------|----------------|
| 75   | 1½" (38mm) | R-4.2/RSI-0.74 |
| 75   | 2" (51mm)  | R-5.6/RSI-1.06 |
| 75   | 2½" (59mm) | R-6.5/RSI-1.14 |
| 75   | 3" (76mm)  | R-8.3/RSI-1.46 |
| 100  | 1½" (38mm) | R-4.5/RSI-0.79 |
| 100  | 2" (51mm)  | R-6.0/RSI-1.06 |
| 150  | 1½" (38mm) | R-4.7/RSI-0.83 |
| 150  | 2" (51mm)  | R-6.3/RSI-1.11 |

\*Please check Product Availability Listing for latest sizing and availability.

#### SPECIFICATION COMPLIANCE

ASTM C553  
• Type II – Type 75, 100 and 150  
• Type III – Type 150  
ASTM C1290  
ASTM E84, FHC 25/50 – FSK Facing  
ASTM C1136, Type II – FSK Facing  
NYC MEA # 40-75-M  
Canada: CGSB 51-GP-11M; CAN/ULC S102-M88







## JM Corbond III®

### Spray Polyurethane Foam

Closed-cell JM Corbond III spray foam is a premium insulation that offers superior thermal performance, advanced air isolation and excellent moisture control. It resists mold and mildew, which improves the indoor environment. It's the only spray foam insulation that allows a 3-inch lift in a single pass while providing an R-21. JM Corbond III boasts an industry-leading R-value of 7.0/per inch and can be applied on substrates as low as 20 degrees Fahrenheit. JM Corbond III insulation and its unique Lavender® color have become the symbol of uncompromising quality and performance.

#### North American Average Recycled Content:

- 10% combined post and pre consumer in Side B

#### AVAILABLE

##### R-VALUE/RSI THICKNESS

|              |            |
|--------------|------------|
| R-42/RSI-7.4 | 6" (152mm) |
| R-21/RSI-3.7 | 3" (76mm)  |

#### SUBSTRATE APPLICATION

|        |           |            |
|--------|-----------|------------|
| Winter | Min. 20°F | Max. 70°F  |
| Summer | Min. 45°F | Max. 120°F |

May be applied in passes of uniform thickness from a minimum of a half inch to a maximum of three inches in a single pass.

#### SPECIFICATION COMPLIANCE

- ASTM Standard C1029
- Surface Burning Characteristics (ASTM E84)
  - Flame Spread 25 or less
  - Smoke Developed Index 450 or less
- Water Absorption (ASTM D2842)
  - 0.020 (gm/cc)
- Water Vapor Transmission (ASTM E96)
  - 0.61 perms @ 1.5"
- Fungi Resistance
- Air Infiltration (ASTM E283-04)
  - 75 Pa 0.001 L/S/m² (1.57 psf) (<0.001 cfm/ft²)
  - 300 Pa 0.001 L/S/m² (6.24 psf) (<0.001 cfm/ft²)
- Air Permeance (ASTM E2178-03)
  - 75 Pa 0.000055 L/S.m².Pa
  - 0.000117 ft³/min.m².Pa
  - 300 Pa 0.000024 L/S.m².Pa
  - 0.000051 ft³/min.m².Pa
- Sound Transmission Coefficient (STC) (ASTM E90-90 & E413-87)
  - 36 (STC)



## JM Corbond MCS™ SPF

### Spray Polyurethane Foam

Closed-cell JM Corbond MCS spray foam acts as a climate barrier, keeping the indoors from the outdoors. The closed-cell polyurethane foam provides superior thermal performance in addition to important air and moisture isolation. JM Corbond MCS can provide an R-13 when installed at a thickness of 2 inches and R-41 at 6 inches. It offers a maximum thickness of up to 2 inches per pass and can be applied in temperatures as low as 45 degrees Fahrenheit.

#### North American Average Recycled Content:

- 13% combined post and pre consumer in Side B

#### AVAILABLE

##### R-VALUE/RSI THICKNESS

|               |            |
|---------------|------------|
| R-41/RSI-6.7  | 6" (152mm) |
| R-20/RSI-3.5  | 3" (76mm)  |
| R-6.8/RSI-1.2 | 1" (25mm)  |

#### SUBSTRATE APPLICATION

|           |            |
|-----------|------------|
| Min. 45°F | Max. 120°F |
|-----------|------------|

May be applied in passes of uniform thickness from a minimum of a half inch to a maximum of two inches in a single pass.

#### SPECIFICATION COMPLIANCE

- ASTM Standard C1029
- Surface Burning Characteristics (ASTM E84)
  - Flame Spread 25 or less
  - Smoke Developed Index 450 or less
- Water Absorption (ASTM D2842)
  - 0.020 (gm/cc)
- Water Vapor Transmission (calculated) (ASTM E96)
  - 0.7 perms @ 1½"
- Air Infiltration (ASTM E283-04)
  - 75 Pa 0.001 L/S/m² (1.57 psf) (<0.001 cfm/ft²)
  - 300 Pa 0.001 L/S/m² (6.24 psf) (<0.001 cfm/ft²)
- Air Permeance (ASTM E2178-03)
  - 75 Pa 0.000055 L/S.m².Pa
  - 0.000117 ft³/min.m².Pa
  - 300 Pa 0.000024 L/S.m².Pa
  - 0.000051 ft³/min.m².Pa





## JM Open-cell SPF

### Spray Polyurethane Foam

JM ocSPF is a low-density, nonstructural open-cell spray polyurethane foam insulation that allows contractors to quickly insulate and air seal in a single step. It is mold and mildew resistant and minimizes sound transmission. JM ocSPF has a versatile range of R-values: R-3.7 when installed at a thickness of 1 inch, R-13 at 3.5 inches and R-20 at 5.5 inches. When used at a thickness of 3.5 inches, JM ocSPF is considered an effective air barrier, which improves the indoor environment and makes a home more comfortable. It can be applied when ambient air and surface temperatures are between 40 and 120 degrees Fahrenheit.

#### AVAILABLE

##### R-VALUE/RSI THICKNESS

|               |             |
|---------------|-------------|
| R-20/RSI-3.5  | 5½" (140mm) |
| R-13/RSI-2.3  | 3½" (89mm)  |
| R-3.7/RSI-0.7 | 1" (25mm)   |

#### SUBSTRATE APPLICATION

Min. 40°F Max. 120°F

#### SPECIFICATION COMPLIANCE

ASTM Standard C1029  
 Surface Burning Characteristics (ASTM E84)  
 • Flame Spread 25 or less  
 • Smoke Developed Index 450 or less  
 Fungi Resistance (ASTM G21)  
 • Zero Rating  
 Air Leakage Rate (ASTM E283)  
 • < 0.02 (L/s)/m²  
 Compressive Strength (ASTM D1621)  
 • < 5 psi  
 Apparent Density (ASTM D1622)  
 • 0.5 pcf (Normal)  
 Open-cell Content (ASTM D2856)  
 • > 90%  
 Tensile Strength (ASTM D1623)  
 • < 5 psi  
 Permeability (ASTM E96)  
 • 21 perm-in  
 Dimensional Stability (ASTM D2126)  
 • <15% Change in Volume



## Hybrid Insulation Solutions

Hybrid insulation solutions offer custom insulation systems that adapt to your construction needs. The innovative systems can be created by applying multiple products in the same cavity or by separately installing both fiber glass and spray polyurethane foam insulation in the right areas of a home. Combining the proven performance of fiber glass insulation and the innovative product benefits of spray foam insulation creates flexible insulation systems that provide premium performance at a more economical price.

#### Spray Foam and Batts/Rolls

- Fiber glass batts or rolls and spray polyurethane foam
- Superior thermal performance and advanced air isolation
- Layered application offers easy hybrid installation

#### Spray Foam and JM Spider Blow-in Insulation

- Premium hybrid insulation solution
- Easy spray-in for any shaped cavity
- Adaptable to almost any home design

#### BIBS® HP

- Closed-cell spray foam and fiber glass insulation
- BIBS mesh
- Innovative, adaptable application







**Johns Manville Insulation Systems**

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