



## Formaldehyde-free<sup>™</sup> Fiber Glass Insulation

### JM FORMALDEHYDE-FREE<sup>™</sup> FIBER GLASS INSULATION

JM Formaldehyde-free<sup>™</sup> fiber glass building insulation offers superior thermal and acoustical performance—and it improves indoor air quality, because it's made without formaldehyde. Why is that important? Because the U.S. Environmental Protection Agency (EPA) recommends limiting exposure to formaldehyde as much as possible, and the California Air Resources Board, a division of the California EPA, recommends that homeowners, builders and architects use building materials and insulation made without formaldehyde when building a home or remodeling. JM is the only company in the industry with a complete line of Formaldehyde-free<sup>™</sup> fiber glass building insulation. Visit [JM.com/formfree](http://JM.com/formfree) for more information.

### PROTECTED FROM MOLD AND MILDEW

Johns Manville MR Faced insulation resists the growth of mold and mildew. We have treated the facing with an EPA-registered mold inhibitor to help protect it from the potential growth of fungi. The facing passes the stringent ASTM D2020 fungi test for paper and paperboard, and both the fiber glass insulation and the facing pass the ASTM C1338 fungi test (molds and mildew are types of fungi).

### PRODUCT DESCRIPTION

JM's MR Faced insulation is a lightweight thermal and acoustical fiber glass insulation made of long, resilient glass fibers bonded with an acrylic thermosetting binder. The facer is protected against mold growth and serves as a "smart" vapor retarder; in extreme humidity, the permeability doubles and allows moisture to escape at a faster rate.

### AVAILABLE FORMS

Pre-cut batts fit standard wall cavities and are faster to install than rolls. MR Faced batts are available in a variety of R-values, widths and lengths; contact your JM sales representative for more information.

### APPLICATION

- Wood-frame construction – residential homes and light commercial buildings
- Metal-frame construction – commercial buildings
- Pre-manufactured homes – modular or manufactured housing
- Interior wall sound control – interior walls and floor and ceiling assemblies (for sound class ratings for wall assemblies, see the appropriate STC values datasheet for either steel or wood framing)

Visit [JM.com](http://JM.com) or check with your JM sales representative for available sizes.

### INSTALLATION

MR Faced insulation batts are easy to cut with an ordinary utility knife. You can install the batts by attaching the stapling tabs to wood framing, use fasteners or simply press into place between studs or joists. The facing will burn and must not be left exposed. It must be covered with gypsum board or another approved interior finish. For exposed applications, use FSK-25 flame-resistant faced insulation.

**Note:** In colder climates, the vapor retarder (whether attached to the insulation or applied separately) is usually placed toward the heated or conditioned side of the wall to reduce water vapor penetration into the wall from the building interior. Conversely, in predominately hot, humid climates, codes often dictate that you place the vapor retarder toward the outside of the wall cavity. Check your local building code for vapor retarder requirements.

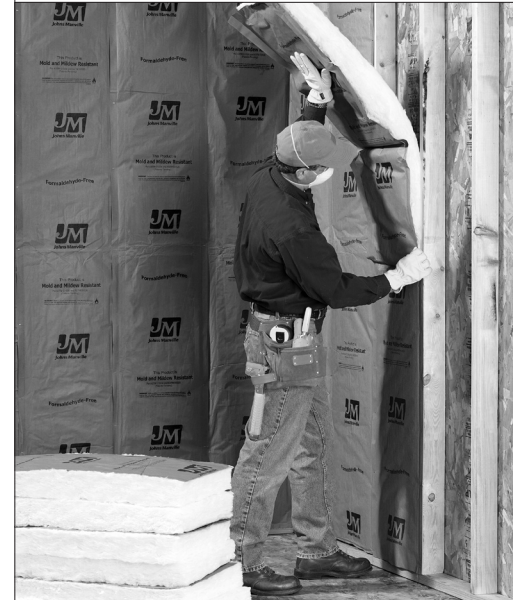
### SPECIFICATION COMPLIANCE

ASTM C 665, Type II, Class C, Category 1  
ASTM E 96 Permeability; Kraft 1 Perm  
ASTM C 1338, No growth  
ASTM D 2020\* Fungus resistant

\*Facing test method standardized for asphalt-coated Kraft.

## MR<sup>®</sup> Faced

Formaldehyde-free<sup>™</sup> Thermal, Acoustical, Mold- and Mildew-resistant Fiber Glass Insulation



### PERFORMANCE ADVANTAGES:

- Improves indoor air quality – because it's made without formaldehyde.
- Thermally efficient – provides effective resistance to heat transfer with R-values up to R-30 (RSI-5.3).
- Mold-resistant – fiber glass and facing resist the growth of fungi.
- Controls moisture – resists water vapor transmission.
- Controls sound – reduces transmission of conversations and equipment noises through interior and exterior walls and floor and ceiling assemblies.
- Noncorrosive – does not accelerate corrosion of pipes, wiring or metal studs.
- Durable – unaffected by moisture, oil, grease and most acids. It will not rot, mildew or otherwise deteriorate.
- Resilient – bonded glass fibers will not pull apart during normal applications and resist settling, breakdown and sagging from vibration.
- Flexible – forms readily around corners and curved surfaces.

# MR<sup>®</sup> Faced

Formaldehyde-free™ Thermal, Acoustical, Mold- and Mildew-resistant Fiber Glass Insulation

Visit us at [JM.com/homeinsulation](http://JM.com/homeinsulation)  
Or call: 1-800-654-3103

## BUILDING CODE COMPLIANCE AND FIRE HAZARD CLASSIFICATION

	ICBO	SBCCI	BOCA	IBC/IRC	Flame Spread*	Smoke Developed*
MR Faced	Types III, IV, V	Types III, V, VI	Types III, IV, V	Types III, IV, V/All Types	Not Rated	Not Rated

\*Per ASTM E 84.

## PACKAGING

This insulation is compression-packaged, for savings in storage and freight costs.

## RECOMMENDED STORAGE AND TRANSPORT

Store insulation indoors. Keep insulation clean and dry at all times. When transporting, cover completely with a waterproof tarpaulin as necessary. Never install wet insulation.

## SHORT FORM SPECIFICATIONS

All insulation shown on drawings or specified herein shall be "Johns Manville MR Faced Formaldehyde-free™ Thermal and Acoustical Fiber Glass Insulation." Thermal Resistance "R" values (RSI) of the insulation shall be R (RSI) \_\_\_\_\_ in ceilings, R (RSI) \_\_\_\_\_ in walls, R (RSI) \_\_\_\_\_ in floors over unheated spaces.

## LIMITATIONS OF USE

Check applicable building codes. MR Faced insulation should not be left exposed.



Properly insulating a structure using Johns Manville building insulation helps preserve our environment by reducing energy consumption for heating and cooling, reducing the pollution resulting from fuel burning, reducing the emission of hazardous air pollutants during manufacturing and reducing waste through the utilization of recycled materials. Look for the cross and globe emblem on Johns Manville building insulation, which indicates independent certification by Scientific Certification Systems, Inc of 25% or more recycled glass content.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of MR Faced thermal and acoustical fiber glass 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 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, call or write to the 800 number or address listed below.



Distributed by:

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