

## Steel Frame

### Formaldehyde-free Thermal and Acoustical Fiber Glass Insulation



#### FORMALDEHYDE-FREE

Johns Manville has revolutionized the building insulation industry by introducing an entire line of formaldehyde-free fiber glass building insulation. JM Formaldehyde-free insulation provides the same high-quality thermal and acoustical properties as conventional JM fiber glass – just without the formaldehyde-based binder. Why? Because it's a smart thing to do for our customers and the environment. Formaldehyde has traditionally been used as part of the binder in fiber glass insulation. Although there is no health risk with the traditional product, formaldehyde at higher levels may cause irritation and sensitivity. JM Formaldehyde-free building insulation utilizes an innovative new acrylic binder that eliminates binder-related formaldehyde emissions during manufacturing and, once installed, will not off-gas formaldehyde in the indoor environment. No formaldehyde means fewer things to worry about. Visit us at [www.jm.com](http://www.jm.com) for more information.

#### PRODUCT DESCRIPTION

Johns Manville Formaldehyde-free thermal and acoustical insulation for steel framing is made of long, resilient glass fibers bonded with an acrylic thermosetting binder. A wide range of thermal resistance is available to provide thermal control for both vertical and horizontal applications.

#### APPLICATIONS

##### New Construction

- Steel frame construction – commercial buildings
- Suspended ceiling systems – sized to fit above 2 x 4 ceiling panels
- Interior wall sound control – interior walls and floor and ceiling assemblies
- Basement wall insulation

##### Retrofit

- Back-fill above suspended ceiling systems

#### INSTALLATION

JM insulation cuts easily with an ordinary utility knife and friction fits by simply pressing in place between studs or joists in standard 16" (406 mm) and 24" (610 mm) framing. Adhesives or fasteners may be used.

#### PACKAGING

JM 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.

#### SPECIFICATION COMPLIANCE

Conforms to NBC 1995 Article 9.25.2.2 and to CSA A101-M  
CCMC Evaluation Listing No. 12276-L  
CAN/ULC-S702-97, Type 1  
UL 181 Air Erosion Standards (1000 feet/minute, 5.08 meter/second)

#### FIRE SAFETY

CAN/ULC-S102-M88 Surface Burning Characteristics:  
Flame Spread = 10, Smoke Developed = 0  
CAN4-S114-M80 Non-combustibility  
ULC-S129-M86 Smoulder Resistance

#### LIMITATIONS OF USE

Check applicable building codes.

#### PERFORMANCE ADVANTAGES

- Formaldehyde-free – will not off-gas formaldehyde in the indoor environment.
- Thermal Efficiency – provides effective resistance to heat transfer with R-values up to R-20 (RSI-3.5).
- Sound Control – reduces transmission of sound through exterior and interior walls and floor/ceiling assemblies.
- Fire-resistant and Non-combustible – (see Specification Compliance).
- Non-corrosive – 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.

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Visit our website at [www.jm.com](http://www.jm.com)  
Or call: 1-800-661-9553

## AVAILABLE FORMS\*

Specification Compliance	R-value (hr.ft <sup>2</sup> .°F/Btu)	RSI-value (m <sup>2</sup> .°K/Watts)	Thickness**		Width***	
			(in)	(mm)	(in)	(mm)
CAN/ULC-S702-97, Type 1 Steel Frame	20	3.5	6	152	16, 24	406, 610
	12	2.1	3½	89	16, 24	406, 610
	10	1.7	3½	89	16, 24	406, 610
	8	1.4	2½	64	16, 24	406, 610

\*Consult your local sales representative for other available sizes and R-values (RSI-values) or call (403) 227-7100.

\*\*Thickness may vary by producing location.

\*\*\*Special widths and lengths may be available. Check with your local sales representative. The standard product lengths include 48-inch (1218 mm) batts.



Contains 50%  
Recycled Bottle Glass

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.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of Steel Frame 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.



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