

## COMPANY

Johns Manville, a Berkshire Hathaway company, was founded in 1858. Our ownership by Berkshire Hathaway, one of the most admired companies in the world and one of the most financially secure, allows JM to invest for the future. This enables JM to continue delivering the broadest range of insulation products in the industry and offering innovative solutions that meet your needs.

## DESCRIPTION

JM Formaldehyde-free™ thermal and acoustical insulation for wood, engineered wood, and steel framing is made of long, resilient glass fibres bonded with a thermosetting resin. A wide range of thermal resistance is available to provide thermal control for both vertical and horizontal applications.

## USE

### Wood Frame Insulation

#### New Construction

- Wood frame construction – residential homes and light commercial buildings
- Interior wall sound control – interior walls and floor and ceiling assemblies
- Basement wall insulation

#### Retrofit

- Re-insulating attics, crawl spaces

### Engineered Wood Frame Insulation

#### New Construction

- Engineered wood construction – assemblies framed with 19.2" on-centre cavities, wide-spaced wood trusses or I-joists
- Interior floor assemblies – thermal and sound control applications

### Steel Frame Insulation

#### New Construction

- Steel frame construction – commercial buildings
- Suspended ceiling systems – sized to fit above 2x4 ceiling panels
- Interior wall sound control – interior walls and floor and ceiling assemblies

#### Retrofit

- Back-fill above suspended ceiling systems

## INSTALLATION

JM insulation cuts easily with an ordinary utility knife and installs by simply pressing in place between studs or joists in standard 381 mm (15") and 584 mm (23") wood framing, 488 mm (19.2") on-centre wood framing, or 406 mm (16") and 610 mm (24") steel framing. For wood or engineered wood framing, wire rods, chicken wire or wire is needed to hold under-floor insulation in place. For steel 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.

## LIMITATIONS OF USE

Check applicable building codes.



## PERFORMANCE ADVANTAGES

**Formaldehyde-free:** will not off-gas formaldehyde in the indoor environment.

**Thermally Efficient:** provides effective resistance to heat transfer with R-values up to R-50 (RSI-8.8) for wood and steel frames and R-28 (RSI-4.9) for engineered wood frames.

**Sound Control:** reduces transmission of sound through exterior and interior walls and floor or ceiling assemblies.

**Fire Resistant and Noncombustible:** (see Specification Compliance).

**Non-corrosive:** does not accelerate corrosion of pipes, wiring or metal studs.

**Durable:** will not rot, mildew or otherwise deteriorate.

**Resilient:** bonded glass fibres will not pull apart during normal applications and resist settling, breakdown and sagging from vibration.

## ENERGY AND ENVIRONMENT



### 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.

## APPLICABLE STANDARDS & BUILDING CODE CLASSIFICATION

### JM UNFACED INSULATION

CCMC Evaluation Listing: 12276-L

Standard for Mineral Fibre Thermal Insulation for Buildings: CAN/ULC-S702-14

Dimensional Tolerances: CAN/ULC-S702-14

Thermal Transmission Properties: ASTM C 518

Surface Burning Characteristics, Flame Spread 0, Smoke Developed 0: CAN/ULC-S102\*

Smoulder Resistance: ULC-S129

Corrosiveness: ASTM C 665

Fungi Resistance: ASTM C 1338

Noncombustible: CAN/ULC-S114-05

### STANDARD SIZES\*\*

R-VALUE (hr·ft²·°F/Btu)	RSI VALUE (m²·°C/Watts)	THICKNESS***		WIDTH****					
				Wood Frame**		Engineered Wood Frame**		Steel Frame**	
				(mm)	(in)	(mm)	(in)	(mm)	(in)
50	8.8	337	13.25	610	24	-	-	610	24
40	7	286	11.25	406, 610	16, 24	-	-	-	-
35	6.1	267	10.5	406, 610	16, 24	-	-	-	-
31	5.4	241	9.5	406, 610	16, 24	-	-	-	-
28C	4.9	178	7	381, 584	15, 23	-	-	-	-
28	4.9	216	8.5	292, 381, 406, 584, 610	11.5, 15, 16, 23, 24	483	19	-	-
24	4.2	140	5.5	375, 578	14.75, 22.75	-	-	-	-
22	3.8	140	5.5	381, 584	15, 23	483	19	-	-
20	3.5	152	6	381, 584	15, 23	483	19	406, 610	16, 24
14	2.4	89	3.5	381, 584	15, 23	-	-	-	-
12	2.1	89	3.5	381, 584	15, 23	483	19	406, 610	16, 24
8	1.4	64	2.5	381	15	-	-	406, 610	16, 24

\* Typical values reported; Surface Burning Characteristics meet flame spread classification <25 and smoke developed <50 required for Type 1 material per CAN/ULC-S702.

\*\* Consult your local sales representative for other available sizes and R-values (RSI-values).

\*\*\* 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 – as well as 47-inch (1193 mm) for wood frames.

