

## 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 Sound-SHIELD Formaldehyde-free batts are lightweight, sound-absorbent insulation made of long, resilient glass fibres bonded with a thermosetting resin. Sound-SHIELD batts help provide a more comfortable interior environment by reducing transmission of conversations and the sounds of televisions, stereos and ventilation systems. In floor/ceiling assemblies, sound control batts may also help reduce transmission of impact-generated sounds between adjacent areas. Used in conjunction with the caulking of joints and resilient channels for drywall attachment, insulation can increase STC ratings by 8 to 10 points. The fibreglass batts are made to fit standard spacing and thickness of wood frame or steel stud construction in residential, commercial, institutional and industrial construction.

## USE

Interior wall sound control – interior walls, floor and ceiling assemblies.

## INSTALLATION

JM insulation cuts easily with an ordinary utility knife and installs by simply pressing in place between studs or joists. Wire rods, chicken wire or wire is needed to hold under-floor insulation in place. Sized to fit, 2x4 batts are quickly and easily laid in place over suspended ceiling panels. Other construction practices that assist in controlling the transmitted sound through wood frame or steel stud walls include:

- Caulking and sealing all sound-leakage points.
- Avoiding connecting ducts, junction boxes, piping or other sound carriers from one wall face to the other.
- Interrupting the vibration path between one wall surface to the other (i.e., staggered studs, resilient channels).

## 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.

**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.

**Flexible:** forms readily around corners and curved surfaces.

## 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

### SOUND-SHIELD INSULATION

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

Smoulder Resistance: ULC-S129

Noncombustible: CAN4-S114-05

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

### STANDARD SIZES\*\*

WOOD FRAME INSULATION	THICKNESS		WIDTH		LENGTH	
	(mm)	(in)	(mm)	(in)	(mm)	(in)
	38	1.5	381	15	1194	47
	102	4	381	15	1194	47
STEEL FRAME INSULATION	THICKNESS		WIDTH		LENGTH	
	(mm)	(in)	(mm)	(in)	(mm)	(in)
	70	2.75	406	16	1219	48
	102	4	406	16	1219	48
	152	6	406	16	1219	48

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

## MEASURING ACOUSTICAL PERFORMANCE

An STC (Sound Transmission Class) is a single number rating used to compare various wall/ceiling/floor constructions. **The higher the STC rating, the greater the acoustic control.** An uninsulated, interior wall has an STC of about 30, which means that the wall reduces the sound transmitted from an adjacent room by about 30 decibels. The National Building Code of Canada requires an STC-50 wall assembly separating multi-family units. This is also a good guideline for many interior walls in single family homes.

### STC Rating Comparison

STC	SPEECH HEARD THROUGH WALLS OR FLOORS
30	Loud speech can be understood fairly well
35	Load speech audible but not intelligible
42	Load speech audible as a murmur
45	Some load speech barely audible
48	Hearing strained to note load speech
50	Loud speech not audible

### Wall Noise Reduction Comparison

TYPE OF CONSTRUCTION	STC VALUE
Studs/Drywall	30
+JM Sound SHIELD	34
+Resilient Channels	46-50
Staggered Studs/Insulation	47-52
+Double Drywall Both Sides	55-56
Framed Double Wall/Double Insulation	57-60

