

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 mineral wool batts are made of inorganic fibers derived from basalt, a volcanic rock. Advanced manufacturing technology ensures consistent product quality, with high-fiber density and low shot content for excellent performance. JM mineral wool batts are inorganic, noncombustible, moisture resistant, non-deteriorating, and will not mildew or support corrosion.

USE

JM Sound & Fire Block® batts are designed to deliver noise control in wood-stud cavities of interior walls and ceilings between floors.

INSTALLATION

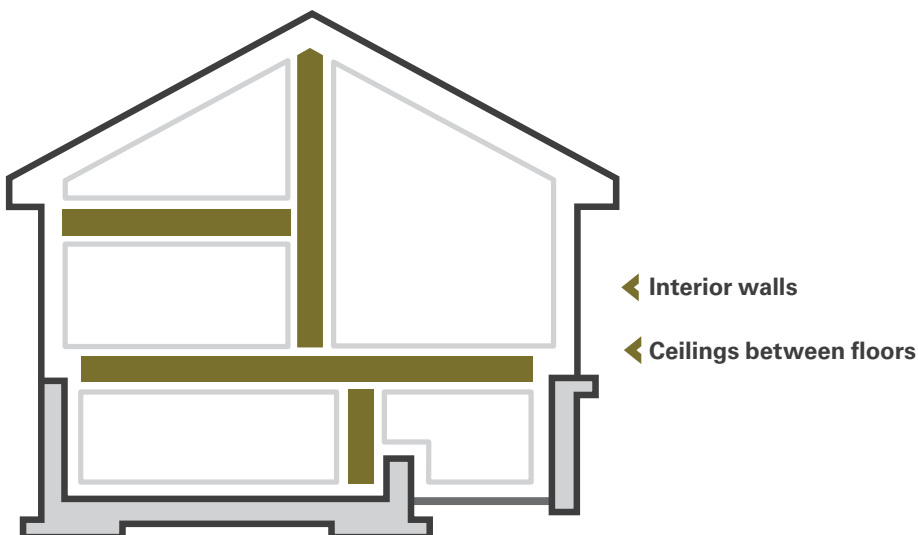
In standard wood framing, carefully insert batts between the wood studs or joists to fill the cavities with a friction-fit to framing members. JM mineral wool batts are easily cut with a knife for quick installation and snug fit in nonstandard size cavities.

Suspended Ceilings: When approved by the ceiling system manufacturer, lay JM mineral wool batts over the ceiling area so that the insulating material is supported by the ceiling suspension system, not the ceiling panels themselves.

PACKAGING

JM mineral wool products are compression packed for more efficient storage and transport.

DESIGN CONSIDERATIONS



PERFORMANCE ADVANTAGES

Excellent Acoustical Performance:

Lightweight, flexible insulation batts are excellent sound absorbers, efficiently reducing sound transmission. JM mineral wool batts improve the Sound Transmission Class (STC) ratings of interior partition walls and suspended ceilings. The high-density, non-combustible fiber in mineral wool reduces unwanted noise from traveling from room to room, making homes quieter.

Fire Safety: Mineral wool Sound & Fire Block has a melting point in excess of 2000°F (1093°C). See Applicable Standards for details.

Noncombustible: See Applicable Standards for details.

Durable & Inorganic: JM mineral wool batts do not support growth of fungi, nor do they sustain vermin.

LIMITATIONS OF USE

Check applicable building codes.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RATING
Sound Transmission Class	ASTM E90	See Acoustical Ratings below
Surface Burning Characteristics	ASTM E84	Flame Spread/Smoke Developed, 0/0
Critical Radiant Flux	ASTM E970	Greater than 0.12 W/cm ²
Noncombustible	ASTM E136	Pass
Fire Tunnel	UL 723, CAN/ULC-S102	Unfaced 0/0
Water Vapor Sorption	ASTM C1104	Less than 5%
Odor Emission	ASTM C1304	Pass
Corrosiveness	ASTM C665	Pass
Fungi Resistance	ASTM C1338	Pass

ACOUSTICAL RATINGS FOR COMMON ASSEMBLIES

ASSEMBLY	COMPONENTS	RATING
2x4 Wood Wall	2"x4" wood studs 16" o.c., 5/8" gypsum drywall both sides, resilient channels, 3" JM Sound & Fire Block® insulation	STC-47
2x10 Wood Floor	2"x10" wood joists 16" o.c., 23/32" OSB subfloor, 5/8" gypsum drywall, resilient channels, 3" JM Sound & Fire Block® insulation	STC-47

STANDARD SIZES

PRODUCT	THICKNESS in (mm)	WIDTH in (mm)	LENGTH in (mm)	R-VALUE
Sound & Fire Block®	3" (76)	15¼" (387)	47" (1194)	3.7 per inch

SOUND ABSORPTION COEFFICIENTS

THICKNESS	FULL OCTAVE BAND CENTER FREQUENCIES, HZ						
	125	250	500	1000	2000	4000	NRC
in (mm)							
3 (76)	0.45	1.03	1.18	1.07	0.99	0.95	1.05