



Formaldehyde-free™ Fiber Glass Insulation

JM FORMALDEHYDE-FREE™ FIBER GLASS INSULATION

JM Formaldehyde-free™ fiber glass building insulation offers the thermal and acoustical performance you expect from fiber glass—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. Using JM Formaldehyde-free™ insulation is one way of acting on those recommendations. JM is the only company in the industry with a complete line of Formaldehyde-free™ fiber glass building insulation. Visit specJM.com/whyjm/health.asp for more information.

PRODUCT DESCRIPTION

The Blow-In-Blanket® System (BIBS®) is a patented process for installing JM Spider fiber glass loose-fill insulation. JM Spider fiber glass is blown in behind BIBS netting, either dry or with adhesive, for complete coverage and high R-value efficiency in any size or shape cavity, up to an R-15 in 2x4 cavities. BIBS with JM Spider fiber glass provides a custom fit for thermally and acoustically superior insulation in walls, ceilings and floors—without settling. BIBS with JM Spider fiber glass is supported by extensive testing and installer training to ensure optimal performance.

APPLICATIONS

BIBS with JM Spider fiber glass is ideal for all wall cavities, floors and the irregular and nonconforming areas around custom windows, arches and cathedral ceilings.

- Provides R-15 in 2x4 walls.
- Provides R-23 in 2x6 walls.

INSTALLATION

Equipment for installing BIBS with JM Spider fiber glass is engineered for professional use. Contact your local JM sales representative for an authorized contractor.

Note: In colder climate areas, vapor retarders are often placed toward the heated or conditioned side of the wall. This is done to reduce water vapor penetration into the wall from the building interior. Conversely, in predominantly hot, humid climates, local practices often call for placing the vapor retarder toward the outside of the wall cavity. Check your local building code for vapor retarder requirements.

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 – JM Spider Fiber Glass

JM Spider fiber glass insulation meets ASTM C 764, "Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation." JM Spider fiber glass meets all building code fire test requirements for concealed and exposed insulation. (See following page for test results.)

Blow-In-Blanket® System with JM Spider® Fiber Glass

Formaldehyde-free™ Loose-fill Fiber Glass Insulation System



PERFORMANCE ADVANTAGES:

- Improves indoor air quality – because it's made without formaldehyde.
- Thermally efficient – provides effective resistance to heat transfer and does not settle, so it won't lose R-value after installation.
- Controls sound – reduces transmission of sound through exterior and interior walls and floor/ceiling assemblies; complete coverage for superior sound control.
- Fire-resistant and noncombustible – (see Specification Compliance).
- Noncorrosive – does not accelerate corrosion of pipes, wiring or metal studs.
- Durable – will not rot, mildew or otherwise deteriorate. Unlike cellulose, it will not hold moisture and will not permanently lose R-value.
- Easy to install – quickly insulates walls, ceilings, floors or spaces of any size or shape.
- Covers completely – effective in tight spaces, hard-to-reach areas and custom framing, and forms a snug fit around ventilation, plumbing and wiring with no gaps or voids.

Blow-In-Blanket® System with JM Spider® Fiber Glass

Formaldehyde-free™ Loose-fill Fiber Glass Insulation System

Visit us at specJM.com

Or call: 1-800-654-3103

TEST DATA

Test Method	Results	Test Method	Result
ASTM E 84 and CAN/ULC S102.2 <i>Surface Burning</i>	Flame spread less than 25, smoke developed less than 50	ASTM C 764 <i>Corrosiveness</i>	No greater than sterile cotton for steel, copper and aluminum
ASTM E 136 <i>Combustion Characteristics</i>	Pass, indicating non-combustible material	ASTM C 518 <i>Thermal Performance</i>	See coverage chart for standard R-values
ASTM E 970 <i>Critical Radiant Flux</i>	Greater than 0.12 W/sq.cm. passing for exposed attic installation	ASTM C 1104/C 1104M <i>Water Vapor Sorption</i>	5% by weight or less
ASTM C 1338 <i>Fungi Resistance of Insulation Materials</i>	Pass, with no growth	ASTM C 1304 <i>Odor Emission</i>	No objectionable odor
ASTM G 21 <i>Fungi Resistance of Synthetic Polymeric Materials</i>	Pass, with no growth	ES Section 01350 for Commercial Applications <i>VOC Emissions</i>	Pass, with no hazardous emissions

EXTERIOR WALL COVERAGE FOR BLOW-IN BIBS COVERAGE

Thermal Resistance R-value	Cavity Depth/ Installed Thickness inches	Minimum Installed Density lbs/ft ³	Minimum Mass Per Unit Area lbs/ft ²	Maximum Net Coverage ft ² /bag	Bags Per 1000 ft ²
13	3.50	1.00	0.29	102.9	9.7
14	(Nominal 2x4)	1.40	0.41	73.5	13.6
15		1.80	0.53	57.1	17.5
20	5.50	1.00	0.46	65.5	15.3
22	(Nominal 2x6)	1.40	0.64	46.8	21.4
23		1.80	0.83	36.4	27.5

PACKAGING

JM Spider loose-fill fiber glass insulation is available in 30-lb. bags.

SHORT FORM SPECIFICATIONS

All insulation shown on drawings or specified herein shall be "JM Spider® fiber glass" as manufactured by Johns Manville. Thermal resistance "R" (RSI) values of the insulation shall be R (RSI) _____ in walls.

LIMITATIONS OF USE

Check applicable building codes.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of Blow-In-Blanket System with JM Spider Formaldehyde-free™ loose-fill 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.

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.



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