



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 reducing overall formaldehyde levels in the home creates a healthier living environment, and choosing JM Formaldehyde-free™ insulation is one way of achieving that goal. JM offers a complete line of Formaldehyde-free™ fiber glass building insulation. Visit specJM.com or JMhomeowner.com for more information.

PRODUCT DESCRIPTION

JM Spider insulation offers many big advantages over cellulose in drill-and-fill applications. Incredibly easy to install, it's convenient and saves time, while offering superior thermal and acoustical performance. JM Spider also provides up to 30% better airflow resistance than cellulose when installed at recommended densities for site-built construction. Our unique design enables the fibers to more effectively fill tight spaces around pipes, wires and electrical boxes. For example, JM Spider will fill 2x4 cavities up to an impressive R-15 thermal rating and 2x6 cavities up to R-24. In addition, because fiber glass is naturally mold-resistant, it does not encourage the growth of mold or mildew.

APPLICATIONS

Exterior Walls – Drill and fill through:

- Lap wood and shipboard siding
- Wood-based sheet siding (particle board, plywood, etc.)
- Masonry (brick, stone or block)
- Vinyl of other non-wood siding (metal, etc.)
- Stucco

Interior Walls – Drill and fill through:

- Gypsum board
- Plaster/lath
- Stucco
- Tile/masonry

JM Spider also works for weatherization of other exterior cavities such as bonus room floors, cantilevered areas and cathedral ceilings that do not require venting. For these closed cavities, follow the same installation procedures as walls. For open cavities such as floors over crawl spaces, dense pack JM Spider Fiber behind netting. (For crawl space floors, be sure to consult the local code requirements for vapor retarders and contact BIBCA if you need information and training on dense packing JM Spider behind netting.) It's also a good idea to install JM Spider in interior walls that contain supply plumbing and PVC waste drains to significantly reduce unwanted noise. Contact your local JM sales representative for availability of JM Spider. Visit specJM.com for additional information, including information on installing.

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 insulation meets ASTM C 764, "Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation." JM Spider system meets all building code fire test requirements for concealed and exposed insulation (see following page for a complete list of test results).

PACKAGING

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

SHORT FORM SPECIFICATIONS

All insulation shown on drawings or specified herein shall be Dense Packed JM Spider® Fiber as manufactured by Johns Manville. Thermal resistance "R" (RSI) values of the insulation shall be R (RSI) _____ in ceilings, R (RSI) _____ in walls and R (RSI) _____ in floors over unheated spaces.

LIMITATIONS OF USE

Check applicable building codes.

Dense Pack JM Spider® for Drill and Fill



PERFORMANCE ADVANTAGES

- Improves indoor air quality: because it's made without formaldehyde.
- Energy efficient: provides superior resistance to heat transfer with R-values up to R-15 in a 2x4 cavity.
- Completely fills the cavity and does not settle: the small nodules of fiber glass are resilient and do not deteriorate or lose performance with time.
- Controls sound: reduces transmission of sound through exterior and interior walls and floor/ceiling assemblies. See the JM Spider Acoustical Performance Advantages sheet (BID-0080) for details.
- Easy to install: installs at a rate per cavity similar to dense-packed cellulose with significantly less plugging and less dust.
- Mold and mildew-resistant: fiber glass is naturally mold-resistant.
- Fire-resistant and noncombustible
- Noncorrosive: does not accelerate corrosion of pipes, wiring or metal studs.
- Durable: will not rot, mildew or otherwise deteriorate. JM Spider will not hold moisture or permanently lose R-value.
- Small nodule or tuft size allows the product to easily flow around obstacles, such as wiring, and through small-diameter mortar tools.
- Higher installed R-value per inch vs. cellulose (typically more than 20% higher R value up to R-4.3 per inch).
- Works with most types of blowing machines designed to process fiber glass insulation.
- Provides significantly higher airflow resistance than cellulose (per ASTM C522 measurements).

Dense Pack JM Spider®

for Drill and Fill

Visit us at specJM.com
Or call: 1-800-654-3103

TEST DATA

Test Method	Results	Test Method	Results
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, aluminum
ASTM E 136 <i>Combustion Characteristics</i>	Pass, indicating non-combustible material	ASTM C 518 <i>Thermal Performance – Heat Flow Meter</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% or less by weight
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 <i>VOC Emissions</i>	Pass, with no hazardous emissions

JM SPIDER PREMIUM FIBER GLASS BLOWING WOOL INSULATION NOMINAL 30-LB. BAG COVERAGE CHART FOR CLOSED CAVITY APPLICATION

Thermal Resistance	Cavity Depth/ Insulation Thickness	Installed Density	Minimum Weight Per Area	Number of Bags Per	Maximum Coverage Per Bag
R-value	inches	lbs/ft ³	lbs/ft ²	1000 Sq. Ft.	ft ² /bag
14.8	3.50 <i>(normal 2x4)</i>	1.8	0.525	17.5	57.1
15.0		2.0	0.583	19.4	51.4
15.1		2.2	0.642	21.4	46.8
15.2		2.4	0.700	23.3	42.9
15.3		2.6	0.758	25.3	39.6
23.3	5.50 <i>(normal 2x6)</i>	1.8	0.825	27.5	36.4
23.6		2.0	0.917	30.6	32.7
23.8		2.2	1.008	33.6	29.8
23.9		2.4	1.100	36.7	27.3
24.1		2.6	1.192	39.7	25.2

The coverage per bag shown in the above chart is for the unframed area (cavities only) and does not account for the space taken up by wall studs, plates, headers, corners, window framing, etc. Depending on the construction details in a given structure, gross coverage for the overall wood-framed wall area may vary.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of JM Spider 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 the 800 number or write to the address, both listed below.



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