

JM FORMALDEHYDE-FREE[™] FIBER GLASS INSULATION

JM Spider custom insulation is a professionally installed spray-in fiber glass insulation system. It fills framing cavities completely, leaving no gaps or voids. This complete coverage results in superior thermal performance and sound control. The system uses fiber glass with 25 percent recycled content and is protected against mold growth with an EPA-registered mold and mildew inhibitor. JM Spider insulation is part of Johns Manville's complete line of Formaldehyde-free™ fiber glass building insulation. It improves indoor air quality, because it's made without formaldehyde-free™ building insulation.

APPLICATIONS

Thermal and Acoustical Insulation of Interior and Exterior Walls and Ceiling/Floor Assemblies

- · Wood-frame construction residential homes and light commercial buildings
- Metal-frame construction residential and commercial buildings
- · Manufactured homes modular or manufactured housing
- Engineered-wood construction assemblies framed with 12" to 19.2" on-center cavities

INSTALLATION

Equipment for JM Spider insulation installation is engineered for professional use. The JM Spider Insulation Delivery System is compatible with most fiber glass blowing machines and includes the following pieces of equipment:

- Vacuum fan and generator
- Blowing and vacuum hoses
- Blowing nozzle attachments
- Portable adhesive tank
- High-pressure adhesive pump and hose
- Wall scrubber

Contact your local JM sales representative for a certified JM Spider insulation contractor. Visit **specJM.com** for additional information including information sheets on drying time and acoustical performance advantages.

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 C764, "Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation." JM Spider insulation 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 loose-fill fiber glass insulation is available in 30-lb. bags. JM Spider adhesive comes in totes and 55-gallon drums.

SHORT FORM SPECIFICATIONS

All insulation shown on drawings or specified herein shall be "JM Spider Custom Insulation System" 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.

JM Spider®

Spray-in Custom Fiber Glass Insulation and Delivery System



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-23 in a 2x6 cavity.
- Covers completely gap-free coverage maximizes thermal and acoustical performance and minimizes air leakage where energy can escape.
- Resilient revolutionary adhesive binder and lightweight fiber glass prevent settling.
- Controls sound reduces transmission of sound through exterior and interior walls and floor/ceiling assemblies. See the JM Spider Insulation Acoustical Performance Advantages sheet (BID-0080) for details.
- Easy to install insulates a typical 2,700 sq. ft. home in 2–3 hours, twice as fast as cellulose.
- Mold and mildew resistant fiber glass is naturally mold resistant; adhesive contains an EPA-registered mold inhibitor to further protect the product from mold and mildew.
- Fire resistant and noncombustible see Test Data.
- Noncorrosive does not accelerate corrosion of pipes, wiring or metal studs.
- Durable will not rot, mildew or otherwise deteriorate. JM Spider insulation will not hold moisture or permanently lose R-value.
- Fast drying requires less moisture than cellulose during installation and dries immediately when installed as recommended. See the JM Spider Insulation Drying Time Information sheet (BID-0082) for details.

JM Spider® Spray-in Custom Fiber Glass Insulation and Delivery System

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

IESI DAIA								
Test Method	Results	Test Method	Results					
ASTM E84 and CAN/ULC S102.2 Surface Burning	Flame spread less than 25, smoke developed less than 50	ASTM C764 Corrosiveness	No greater than sterile cotton for steel, copper, aluminum					
ASTM E136 Combustion Characteristics	Pass, indicating non-combustible material	ASTM C518 Thermal Performance –	See coverage chart for standard R-values					
ASTM E970	Greater than 0.12 W/sq.cm.,	Heat Flow Meter						
Critical Radiant Flux	passing for exposed attic installation	ASTM C1104/C1104M	5 percent or less by weight					
ASTM C1338 Fungi Resistance of Insulation Materials	Pass, with no growth	Water Vapor Sorption						
		ASTM C1304 Odor Emission	No objectionable odor					
ASTM G21 Fungi Resistance of Synthetic Polymeric Materials	Pass, with no growth	ES Section 01350 VOC Emissions	Pass, with no hazardous emissions					

WALL AND OVERHEAD COVERAGE FOR JM SPIDER SPRAY-IN CUSTOM FIBER GLASS INSULATION

Note: Minimum installed density for overhead 1.8 lbs/ft.³ Minimum installed wall density for 3.5-inch deep wall cavity is 1.0 lbs/cu. ft. when no refeed is used.

Thermal Resistance R-value	Cavity Depth/ Installed Thickness inches	Minimum Installed Density Ibs/cu. ft.	Minimum Mass per Unit Area Ibs/sq. ft.	Maximum Net Coverage* sq. ft.	Bags per 1,000 sq. ft.	Adhesive Use per 1,000 sq. ft. gallons						
Wood Framing												
13		1.0	0.29	102.9	9.7	4.9		7.3				
13.5	0.50	1.2	0.35	85.7	11.7	5.8		8.8				
14	3.50 (Nominal 2×4)	1.4	0.41	73.5	13.6	6.8	to	10.2				
15	(10011111111112X4)	1.8	0.53	57.1	17.5	8.8		13.1				
22	5.50	1.4	0.64	46.8	21.4	10.7	ta	16.0				
23	(Nominal 2x6)	1.8	0.83	36.4	27.5	13.8	10	20.6				
29	7.25	1.4	0.85	35.5	28.2	14.1		21.1				
30	(Nominal 2x8)	1.8	1.09	27.6	36.3	18.1	to	27.2				
37	9.25	1.4	1.08	27.8	36.0	18.0	ta	27.0				
38	(Nominal 2x10)	1.8	1.39	21.6	46.3	23.1	to	34.7				
45	11.25	1.4	1.31	22.9	43.8	21.9	to	32.8				
47	(Nominal 2x12)	1.8	1.69	17.8	56.3	28.1	10	42.2				
Steel Studs, Purlins, Engineered Lumber, etc.												
15		1.2	0.40	75.0	13.3	6.7		10.0				
16	4.0	1.4	0.47	64.3	15.6	7.8	to	11.7				
17		1.8	0.60	50.0	20.0	10.0		15.0				
24	6.0	1.4	0.70	42.9	23.3	11.7	to	17.5				
25		1.8	0.90	33.3	30.0	15.0	10	22.5				
32	8.0	1.4	0.93	32.1	31.1	15.6	4	23.3				
33		1.8	1.20	25.0	40.0	20.0	to	30.0				
40	10.0	1.4	1.17	25.7	38.9	19.4	to	29.2				
41		1.8	1.50	20.0	50.0	25.0	10	37.5				
48	12.0	1.4	1.40	21.4	46.7	23.3	to	35.0				
50		1.8	1.80	16.7	60.0	30.0	to	45.0				

*Net coverage area per bag—does not include framing adjustment.

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



Johns Manville **Insulation Systems** 717 17th Street Denver, CO 80202 (800) 654-3103

specJM.com

Distributed by: