

Formaldehyde-free[™] Fiber Glass Insulation

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 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. Visit JM.com/formfree for more information on the benefits of JM 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 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 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 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 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 showr	n on drawings or specified here	ein shall be "JM Spider® C	ustom Insulation System
as manufactured by	Johns Manville. Thermal resis	stance "R" (RSI) values of t	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.
- 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 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 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 Drying Time Information sheet (BID-0082) for details.



Spray-in Custom Fiber Glass Insulation and Delivery System

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 Surface Burning	Flame spread less than 25, smoke developed less than 50	ASTM C 764 Corrosiveness	No greater than sterile cotton for steel, copper, aluminum		
ASTM E 136 Combustion Characteristics	Pass, indicating non-combustible material	ASTM C 518 Thermal Performance —	See coverage chart for standard R-values 5% or less by weight		
ASTM E 970 Critical Radiant Flux	Greater than 0.12 W/sq cm, passing for exposed attic installation Pass, with no growth	Heat Flow Meter ASTM C 1104/C 1104M			
ASTM C 1338 Fungi Resistance of Insulation Materials		Water Vapor Sorption ASTM C 1304 Odor Emission	No objectionable odor		
ASTM G 21 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 walls: 1.0 or 1.8 lbs/ft³; overhead: 1.8 lbs/ft³ only

Thermal Resistance R-value	Cavity Depth/ Installed Thickness inches	Minimum Installed Density Ibs/ft³	Minimum Mass Per Unit Area lbs/ft²	Maximum Net Coverage* ft²/bag	Bags Per 1000 ft ²	Pe	Adhesive Use Per 1000 ft ² gallons	
			Wood Framing					
13	3.50	1.0	0.29	102.9	9.7	4.9	4-	7.3
15	(Nominal 2x4)	1.8	0.53	57.1	17.5	8.8	to	13.1
20	5.50	1.0	0.46	65.5	15.3	7.6	+-	11.5
23	(Nominal 2x6)	1.8	0.83	36.4	27.5	13.8	to	20.6
27	7.25	1.0	0.60	49.7	20.1	10.1		15.1
30	(Nominal 2x8)	1.8	1.09	27.6	36.3	18.1	to	27.2
34	9.25	1.0	0.77	38.9	25.7	12.8	to	19.3
38	(Nominal 2x10)	1.8	1.39	21.6	46.3	23.1		34.7
42	11.25	1.0	0.94	32.0	31.3	15.6		23.4
47	(Nominal 2x12)	1.8	1.69	17.8	56.3	28.1	to	42.2
		Steel Stud	ls, Purlins, Engineered Lu	ımber, etc.				
15	4.0	1.0	0.33	90.0	11.1	5.6		8.3
17	4.0	1.8	0.60	50.0	20.0	10.0	to	15.0
22	C 0	1.0	0.50	60.0	16.7	8.3		12.5
25	6.0	1.8	0.90	33.3	30.0	15.0	to	22.5
30	0.0	1.0	0.67	45.0	22.2	11.1		16.7
33	8.0	1.8	1.20	25.0	40.0	20.0	to	30.0
37	10.0	1.0	0.83	36.0	27.8	13.9	4-	20.8
41	10.0	1.8	1.50	20.0	50.0	25.0	to	37.5
45	12.0	1.0	1.00	30.0	33.3	16.7	4-	25.0
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 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

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