



Formaldehyde-free™ Fiber Glass Insulation

Climate Pro®

JM Formaldehyde-free™ Blow-in Loose-fill 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. JM offers a complete line of certified Formaldehyde-free™ fiber glass building insulation. Visit specJM.com or JMhomeowner.com for more information.

PRODUCT DESCRIPTION

Johns Manville Formaldehyde-free™ Climate Pro blow-in loose-fill fiber glass insulation is a premium alternative to cellulose. It's blown into attics, nonconforming spaces and hard-to-reach areas, like corners, edges and around framing. When it's applied to the recommended thickness and specifications, you can be assured that your home is energy efficient, with minimal heat loss. And unlike cellulose, it won't settle, decay or provide food for animals or microbes. It's effective for the life of your home.

APPLICATIONS

- Attics – can be installed up to R-70 over ½" (13 mm) ceiling drywall without exceeding ceiling weight limits.
- Nonconforming spaces – insulation sprays out of the hose several feet, filling in large areas and small gaps quickly and completely.
- Wall cavities – can be installed in walls using the Blow-In-Blanket® System (BIBS®).

INSTALLATION

Equipment for JM Climate Pro insulation installation is engineered for professional use. Contact your local JM sales representative for an authorized contractor.

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

ASTM C764, Type I

CAN/ULC-S102.2 and ASTM E84 Flame Spread 25 or less, Smoke Developed 50 or less

BUILDING CODE COMPLIANCE AND FIRE HAZARD CLASSIFICATION

	ICBO	SBCCI	BOCA	IBC/IRC	Flame Spread*	Smoke Developed*
Climate Pro insulation	All Types	All Types	All Types	All Types/All Types	25	50

*Meets FHC 25/50 specification per ASTM E84 and CAN/ULC-S102.2.

ATTIC COVERAGE CHART

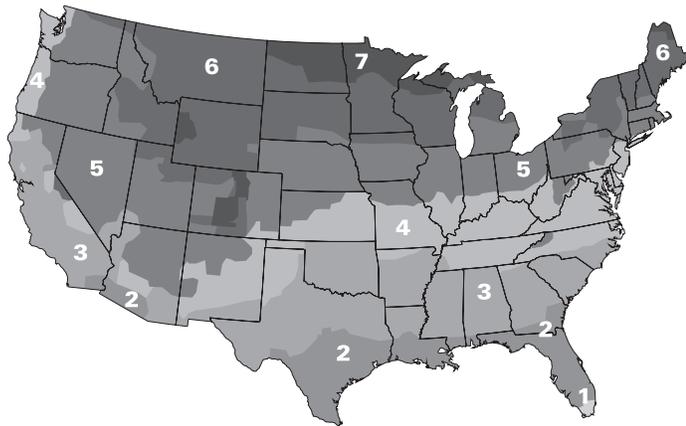
Thermal Resistance To obtain insulation resistance of:	Min. Installed Thickness Installed insulation should not be less than:	Settled Thickness Expected thickness after long-term settling has occurred:	Bags per 1,000 sq. ft. Number of bags per 1,000 sq. ft. of net area should not be less than:	Max. Coverage Contents of the bag should not cover more than:	Min. Weight Weight per sq. ft. should not be less than:
R-value	inches	inches	bags	ft ² /bag	lb/ft ²
60	21.4	21.4	30.6	33	0.963
49	17.8	17.8	24.3	41	0.767
44	16.2	16.2	21.6	46	0.680
38	14.2	14.2	18.4	54	0.579
30	11.4	11.4	14.2	70	0.448
26	10.0	10.0	12.2	82	0.384
22	8.5	8.5	10.2	98	0.321
19	7.4	7.4	8.7	114	0.275
13	5.2	5.2	5.9	170	0.185
11	4.4	4.4	4.9	202	0.156

The manufacturer recommends that the insulation be installed at these minimum thicknesses and maximum coverages to provide the levels of insulation thermal resistance (R-value) shown.



PERFORMANCE ADVANTAGES

- Improves indoor air quality – because it's made without formaldehyde.
- Thermal efficiency – provides effective resistance to heat transfer. Unlike cellulose products, JM Climate Pro insulation does not settle, for no loss of R-value after installation.
- Controls sound – reduces transmission of sound through exterior and interior walls, and floor and ceiling assemblies for superior sound control.
- Fire resistant and noncombustible – see Specification Compliance.
- Noncorrosive – does not accelerate corrosion of pipes, wiring or metal studs.
- Durable – it will not rot, mildew or otherwise deteriorate. Unlike cellulose, JM Climate Pro insulation will not hold moisture and will not permanently lose R-value.
- Easy to install – quickly insulates attics or spaces of any size or shape without cutting or fitting.
- Complete coverage – effective in tight spaces, areas with large amounts of cross-bridging or areas with small gaps and voids.



All of Alaska is Zone 7 except for the following boroughs, which are in Zone 8: Bethel, Dellingham, Fairbanks N. Star, Nome, North Slope, Northwest Arctic, Southeast Fairbanks, Wade Hampton and Yukon-Koyukuk.

Zone 1 includes Hawaii, Guam, Puerto Rico and the Virgin Islands.

DOE RECOMMENDED R-VALUES – NEW WOOD-FRAMED HOUSES

Zone	Heating System	Attic	Cathedral Ceiling	Wall		Floor
				Cavity	Insulation Sheathing	
1	All	R-30 to R-49	R-22 to R-15	R-13 to R-15	None	R-13
2	Gas, oil, heat pump	R-38 to R-60	R-22 to R-38	R-13 to R-15	None	R-13
	Electric furnace					R-19 to R-25
3	Gas, oil, heat pump	R-38 to R-60	R-22 to R-38	R-13 to R-15	None	R-25
	Electric furnace				R-2.5 to R-5	
4	Gas, oil, heat pump	R-38 to R-60	R-30 to R-38	R-13 to R-15	R-2.5 to R-6	R-25 to R-30
	Electric furnace				R-5 to R-6	
5	Gas, oil, heat pump	R-38 to R-60	R-30 to R-38	R-13 to R-15	R-2.5 to R-6	R-25 to R-30
	Electric furnace		R-30 to R-60	R-13 to R-21	R-5 to R-6	
6	All	R-49 to R-60	R-30 to R-60	R-13 to R-21	R-5 to R-6	R-25 to R-30
7	All	R-49 to R-60	R-30 to R-60	R-13 to R-21	R-5 to R-6	R-25 to R-30
8	All	R-49 to R-60	R-30 to R-60	R-13 to R-21	R-5 to R-6	R-25 to R-30

These recommendations are cost-effective levels of insulation based on the best available information on local fuel and materials costs and weather conditions. Consequently, the levels may differ from current local building codes.



5% Pre-consumer
20% Post-consumer
SCS-CERTIFIED
SCS-MC-01073

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 percent or more recycled glass content.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of JM Climate Pro® Formaldehyde-free™ Blow-in 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 the 800 number or write to the address, both listed below.



Insulation Systems

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