



## 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 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 the only complete line of certified formaldehyde-free™ fiber glass building insulation. Visit [specJM.com](http://specJM.com) or [JMhomeowner.com](http://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 appreciably 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 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 C 764, Type I CAN/ULC-S102.2 and ASTM E 84 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	All Types	All Types	All Types	All Types/All Types	25	50

\*Meets FHC 25/50 specification per ASTM E 84 and CAN/ULC-S102.2.

### ATTIC COVERAGE CHART

Thermal Resistance To obtain insulation resistance of:	Min. Installed Thickness Installed insulation shall not be less than:	Settled Thickness Expected thickness after long-term settling has occurred:	Bags per 1000 sq. ft. Number of bags per 1000 sq. ft. of net area should not be less than:	Max. Coverage Contents of the bag shall not cover more than:	Min. Weight Weight per sq. ft. should not be less than:
R-value	inches	inches	bags	ft <sup>2</sup> /bag	lb/ft <sup>2</sup>
60	22.8	22.7	38.2	26	0.974
49	19.1	19.0	30.4	33	0.774
44	17.4	17.3	26.9	37	0.686
38	15.3	15.1	22.9	44	0.583
30	12.4	12.2	17.6	57	0.450
26	10.9	10.7	15.1	66	0.385
22	9.3	9.2	12.6	79	0.322
19	8.1	8.0	10.8	93	0.276
13	5.7	5.6	7.2	138	0.185
11	4.9	4.8	6.1	164	0.155

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 (based on 25.5-lb. average net weight per bag).

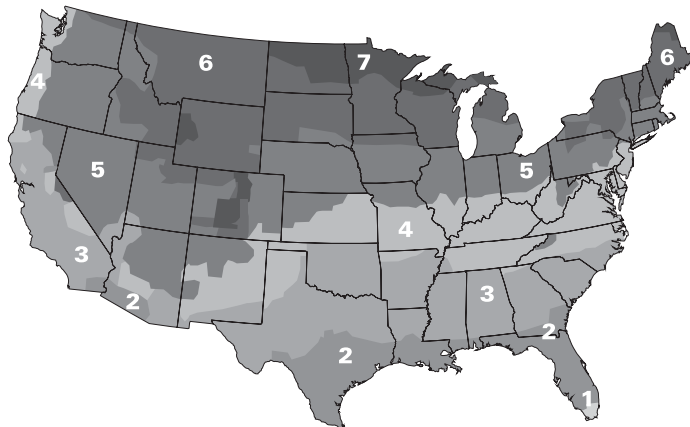
## Climate Pro®

Formaldehyde-free™ Blow-in Loose-fill  
Fiber Glass Insulation



### PERFORMANCE ADVANTAGES

- Improves indoor air quality – because it's made without formaldehyde.
- Thermally efficiency – provides effective resistance to heat transfer. Unlike cellulose products, Climate Pro settles only 1 to 3 percent, so it won't lose R-value after installation.
- Sound control – reduces transmission of sound through exterior and interior walls and floor/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, Climate Pro 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 in Zone 8: Bethel, Dellingham, Fairbanks N. Star, Nome, North Slope, Northwest Arctic, Southeast Fairbanks, Wade Hampton, 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					
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.



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.

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of Johns Manville Formaldehyde-free™ Climate Pro® 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.



Distributed by:

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