



# Formaldehyde-Free™ Fiber Glass Insulation Enhanced with Bio-Based Binder

COMFORTTHERM®



## PRODUCT DATA SHEET

### COMPANY

Johns Manville is committed to creating more comfortable, healthier and energy-efficient indoor environments. We revolutionized the building insulation industry by pioneering the development of Formaldehyde-free™ fiber glass building insulation over a decade ago. We continue to build on our legacy of innovation with a new Formaldehyde-free™ fiber glass insulation solution that utilizes an innovative bio-based binder, made mostly with rapidly renewable plant-based materials, that offers excellent thermal and acoustical performance as well as improved handling, easier cutting and less dust than our previous product. At JM, we believe that in every detail, materials matter.

### DESCRIPTION

JM ComfortTherm poly-encapsulated thermal and acoustical fiber glass insulation is lightweight and made of long, resilient glass fibers bonded with our bio-based binder. ComfortTherm is wrapped in plastic for more comfortable installation with less itch and dust. The product is available with a vapor-retarder plastic facing, and also with a plastic facing that does not act as a vapor retarder for use in hot, humid climates.

### AVAILABLE FORMS

- Pre-cut batts – fit standard wall cavities and are faster to install than roll products.
- Rolls – can be cut to fit any size wall cavity and installed in any part of a building—especially useful for long, unobstructed areas such as attics or crawl spaces.

### USE

JM ComfortTherm insulation can be used in a wide variety of wood frame, engineered wood and steel frame construction applications, including:

**New Construction:** Residential homes and commercial buildings interior walls, floors and ceilings for thermal and sound control, as well as basement wall insulation.

**Retrofit:** Adding insulation to attics, crawl spaces and above suspended ceilings.

### INSTALLATION

ComfortTherm batts are sized to fit standard cavities. JM ComfortTherm insulation can easily be cut with an ordinary utility knife to fit nonstandard cavities—install it by simply pressing in place between studs or joists. JM ComfortTherm insulation can be secured by stapling the flanges to wood studs.

### PACKAGING

JM ComfortTherm insulation is compression-packaged for savings in storage and freight costs.

### DESIGN CONSIDERATIONS

In colder climates, vapor retarders (whether attached to the insulation or applied separately) are often placed toward the heated or conditioned side of the wall. This is done to reduce water vapor penetration into the wall from the building interior. The plastic facing of standard JM ComfortTherm insulation is a vapor retarder. JM ComfortTherm insulation with a non-vapor-retarder facing is also available. Check your local building code for vapor-retarder requirements.

Refer to JM guide specifications for further design considerations and required installation instructions.

### LIMITATIONS OF USE

Check applicable building codes.



### PERFORMANCE ADVANTAGES

**Formaldehyde-free:** will not off-gas formaldehyde in the indoor environment.

**Thermal Efficiency:** provides effective resistance to heat transfer with R-values up to R-30 (RSI-5.3).

**Sound Control:** reduces transmission of sound through exterior and interior walls and floor or ceiling assemblies.

**Fire Resistant and Noncombustible:** see Specification Compliance.

**Durable Inorganic Glass:** will not rot, mildew or deteriorate and is noncorrosive to pipes, wiring and metal studs.

**Superior Performance:** bonded glass fibers are dimensionally stable and will not slump within the wall cavity, settle or break down during normal applications.

### ENERGY AND ENVIRONMENT





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### APPLICABLE STANDARDS & BUILDING CODE CLASSIFICATION\*

JM COMFORTTHERM INSULATION
ASTM C665, Type II, Class A, Category 1 or 2**
IBC, ALL TYPES

\*JM insulations comply with the IBC (International Building Code), model code for requirements for building construction type listed above  
 \*\*Standard ComfortTherm is Category 1 (vapor retarder), R-25 and non-vapor retarder ComfortTherm for hot humid climates (available R-13, 19, 25 and 30) are category 2.

### STANDARD SIZES\*

FACING	R-VALUE (hr•ft <sup>2</sup> •°F/Btu)	RSI VALUE (m <sup>2</sup> •°C/Watts)	THICKNESS** in (mm)	WIDTH†			
				METAL FRAMING in (mm)		WOOD FRAMING in (mm)	
Poly-encapsulated	11	1.9	3½ (89) 3¾ (92)	16 (406)	24 (610)	15 (381)	23 (584)
	13	2.3	3½ (89) 3¾ (92)	16 (406)	24 (610)	15 (381)	
	19	3.3	6½ (165)	16 (406)	24 (610)	15 (381)	23 (584)
	21	3.7	5½ (140)		—	15 (381)	
	25	4.4	8¼ (210)		—	15 (381)	23 (584)
	30	5.3	10¼ (260)	16 (406)	24 (610)	16 (406)	24 (610)

\*Consult your local JM sales representative or product availability chart for other available sizes and R-values (RSI-values) including wide-roll products.

\*\*Thickness may vary by producing location.

†Special widths and lengths may be available. Check with your local JM sales representative. Standard product lengths include 48", 93" and 96" (1,219 mm; 2,362 and 2,438 mm) batts.

### PHYSICAL PROPERTIES\*

PRODUCT	FLAME SPREAD	SMOKE DEVELOPED	VAPOR RETARDER (PERMS)	WATER VAPOR SORPTION	DIMENSIONAL STABILITY
JM ComfortTherm Insulation	<25	<50	<0.5	Less than 0.5%	Less than 0.1%

\*Products are tested in accordance: R-value ASTM C518 | Surface Burning Characteristics ASTM E84 | Water Vapor Permeance ASTM E961 | Water Vapor Sorption ASTM C1104



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 Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of thermal and acoustical 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, visit the website or call the 800 number above. © 2013 Johns Manville, 717 17th Street Denver CO, 80202  
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