

Formaldehyde-free™ Fiber Glass Insulation

BETTER INDOOR AIR QUALITY AND BETTER FOR THE ENVIRONMENT

Sensitive to growing concerns about indoor air quality and the need for environmentally responsible building products, Johns Manville has revolutionized the building insulation industry by introducing the only complete line of formaldehyde-free fiber glass insulation in the world. Formaldehyde-free insulation delivers the thermal and acoustical performance you expect and addresses the healthier indoor air quality you want. In fact, JM is the only line of fiber glass insulation to pass the toughest indoor air quality test, California Environmental Specification 1350, with a non-detect for all hazardous pollutants. In addition, JM uses more certified post-consumer recycled content than any other fiber glass insulation manufacturer. To learn more about our complete line of formaldehyde-free fiber glass insulation that promotes better indoor air quality, visit www.jm.com.

PRODUCT DESCRIPTION

Johns Manville ComfortTherm poly-encapsulated thermal and acoustical fiber glass insulation is lightweight and made of long, resilient glass fibers bonded with an acrylic thermosetting binder. ConfortTherm 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.

APPLICATIONS

ComfortTherm insulation carries a Class A rating (ASTM C 665) for low flame spread and has been classified FHC 25/50 by Underwriters Laboratories, meaning it can be used for some exposed (not covered by gypsum wallboard) applications where permitted by the local building code. See National Evaluation Service, Inc. (NES) Report No. NER-549—copies available upon request. Under some conditions, even low flame spread material can burn at a slow rate if exposed to an open flame or other heat sources. Do not use ComfortTherm insulation where encapsulation film will be exposed to sunlight or mechanical abuse.

New Construction

- Wood frame construction residential homes and light commercial buildings
- Metal frame construction commercial buildings
- Pre-manufactured homes modular or manufactured housing
- Suspended ceiling systems sized to fit above 2 x 4 ceilings
- Interior wall sound control interior walls and floor and ceiling assemblies (For sound class ratings for wall assemblies, see the appropriate STC values datasheet for either steel or wood framing.)

Retrofit

- Re-insulating attics (R-25 only) and crawl spaces
- Back-fill above suspended ceiling systems

INSTALLATION

ComfortTherm batts are sized to fit standard cavities. You can cut JM ComfortTherm insulation easily with an ordinary utility knife to fit nonstandard cavities, and install it by simply pressing in place between studs or joists. You can secure the insulation by stapling the flanges to wood studs. ComfortTherm is also available in a reverse-flange underfloor configuration with the vapor retarder toward the floor.

Note: 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 ComfortTherm is a vapor retarder. In predominantly hot, humid climates, many codes make vapor-retarder use optional. ComfortTherm with a non-vapor-retarder facing is available for these areas. Check your local building code for vapor-retarder requirements.

PACKAGING

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

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.

ComfortTherm[®]

Poly-encapsulated Formaldehyde-free Thermal and Acoustical Fiber Glass Insulation



PERFORMANCE ADVANTAGES

- Formaldehyde-free promotes better indoor air quality.
- Poly-encapsulated wrapped in plastic for cleaner, more comfortable installation with less itch and dust.
- Thermally Efficient provides effective resistance to heat transfer with R-values up to R-38 (RSI-6.7).
- Acoustically Efficient reduces transmission of sound through exterior and interior walls and floor/ceiling assemblies.
- Fire-resistant and Noncombustible (see Specification Compliance). ComfortTherm insulation can be left exposed where building codes permit.
- Effective at Controlling Moisture the plastic facing is a vapor retarder that resists water vapor transmission. ComfortTherm is also available with a plastic facing that does not act as a vapor-retarder, for use in hot, humid climates.
- Noncorrosive does not accelerate corrosion of pipes, wiring or metal studs.
- Mold-resistant does not support mold or mildew. Does not supply a food source for insects or rodents.
- Resilient bonded glass fibers will not pull apart during normal applications and resist settling, breakdown and sagging from vibration.
- Flexible forms readily around corners and curved surfaces.



Poly-encapsulated Formaldehyde-free Thermal and Acoustical Fiber Glass Insulation

Visit our website at www.jm.com Or call: 1-800-654-3103

BUILDING CODE COMPLIANCE AND FIRE HAZARD CLASSIFICATION

	ICB0	SBCCI	BOCA	IBC/IRC	Flame Spread*	Smoke Developed*
ComfortTherm	All Types	All Types	All Types	All Types/All Types	25	50

^{*}Per ASTM E 84.

AVAILABLE FORMS*

Specification	R-value	RSI-value	Thickness**		Width***			
Compliance	(hr.ft ² .°F/Btu)	(m ² .°K/Watts)	(in)	(mm)	Metal Framing (in)	Wood Framing (in)	Metal Framing (mm)	Wood Framing (mm)
ASTM C 665	38c	6.7	101/4	260		15½, 23¾		393, 398
Type II	30	5.3	101/4	260	16, 24	16, 24	406, 610	406, 610
Class A	25	4.4	81/4	210		$15^{\Delta\Delta}$, 23		381, 584
Category 1 or 2 [†]	21	3.7	51/2	140		15		381
	19	3.3	61/2	165	16, 24 [∆]	$15^{\Delta\Delta\Delta}$, 23	406, 610	381, 584
	13	2.3	31/2, 35/8	89, 92	16	15	406	381
	11	1.9	31/2, 35/8	89, 92	16, 24	15, 23	406, 610	381, 584

- * Consult your local sales representative or product availability chart for other available sizes and R-values (RSI-values).

 ** Thickness may vary by producing location.

 *** Special widths and lengths may be available. Check with your local sales representative. Standard product lengths include 48, 93 and 96 inch batts.
- † Standard ComfortTherm is Category 1 (vapor retarder). R-25 and non-vapor retarder ComfortTherm for hot and humid climates (available in R-1 13, 19 and 30) are Category 2.
- Δ For above suspended ceiling. $\Delta\Delta$ For attic reinsulation. Encapsulation film is perforated on face and back.
- ΔΔΔ For under floor wood framing.

SPECIFICATION COMPLIANCE

ASTM C 665, Type II, Class A, Category 1 (R-25 is Category 2, not classified as a vapor retarder)

ASTM E 96 Permeability; vapor retarder facer films on standard product: 0.5 Perms. Perforated backer film and perforated facer film on R-25 attic insulation and products for hot, humid climates (available in R-11, 13, 19 and 30): 10 Perms. Ul File R3711

ASTM E 84 Flame Spread 25 or less, Smoke Developed 50 or less

SHORT FORM SPECIFICATION

All insulation shown on drawings or specified herein shall be "Johns Manville ComfortTherm Formaldehyde-free Thermal and Acoustical Fiber Glass Insulation." 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. The product shall have an FHC rating of 25/50 or less.

LIMITATIONS OF USE

Check applicable 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 ComfortTherm poly-encapsulated 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, call or write to the 800 number or address listed below.



Building Insulation Division

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