Johns Manville

TENSILE STRUCTURE SYSTEMS

Smart Ideas. Better Insulation.

Foil-Faced Batts

Formaldehyde-free Thermal and Acoustical Fiber Glass Insulation

FORMALDEHYDE-FREE

Johns Manville has revolutionized the building insulation industry by introducing an entire line of formaldehyde-free fiber glass building insulation. JM Formaldehyde-free insulation provides the same high-quality thermal and acoustical properties as conventional JM fiber glass – just without the formaldehyde-based binder. Why? Because it's a smart thing to do for our customers and the environment. Formaldehyde has traditionally been used as part of the binder in fiber glass insulation. Although there is no health risk with the traditional product, formaldehyde at higher levels may cause irritation and sensitivity. JM Formaldehyde-free building insulation utilizes an innovative new acrylic binder that eliminates binder-related formaldehyde emissions during manufacturing and, once installed, will not off-gas formaldehyde in the indoor environment. No formaldehyde means fewer things to worry about. Visit us at **www.jm.com** for more information.

PRODUCT DESCRIPTION

Johns Manville's foil-faced insulation is a lightweight thermal and acoustical insulation made of long, resilient glass fibers bonded with an acrylic thermosetting binder. The insulation is laminated with a foil-faced vapor retarder.

APPLICATIONS

- Wood frame construction – residential homes and light commercial buildings
- Metal frame construction – commercial buildings

INSTALLATION

Foil-faced insulation cuts easily with an ordinary utility knife. Stapling tabs are provided for attachment to wood framing. The insulation can also be installed with fasteners or simply pressed in place between studs. The foil vapor retarder on this product will burn, and must not be left exposed. It must be covered with gypsum board or another approved interior finish. Where an exposed application is required, use FSK-25 flame-resistant faced insulation.

Note: In colder climate areas, 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. Conversely, in predominantly hot, humid climates local practices often call for placing the vapor retarder toward the outside of the wall cavity. Check your local building codes for vapor retarder requirements.

PACKAGING

Foil-faced 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.

SPECIFICATION COMPLIANCE

ASTM C 665, Type III, Class B, Category 1
ASTM E 96 Permeability; Foil – 0.05 Perms
ASTM E 84 Flame Spread 75 or less, Smoke Developed 150 or less

SHORT FORM SPECIFICATION

All insulation shown on drawings or specified herein shall be "Johns Manville Foil-Faced Formaldehyde-free Fiber Glass Insulation." Thermal resistance "R" values (RSI) 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 75/150 or less.

LIMITATIONS OF USE

Check applicable building codes. Foil-faced insulation should not be left exposed.

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/ceiling assemblies.
- Moisture Control – the foil facing resists water vapor transmission.
- Noncorrosive – does not accelerate corrosion of pipes, wiring or metal studs.
- Durable – unaffected by moisture, oil, grease and most acids. It will not rot, mildew or otherwise deteriorate.
- 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.

Foil-Faced Batts

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

	ICBO	SBCCI	BOCA	IBC/IRC	Flame Spread*	Smoke Developed*
Foil-Faced	Types III, IV, V	All Types	All Types	Types III, IV, V/All Types	75	150

*Per ASTM E 84.

AVAILABLE FORMS*

Specification Compliance	R-value ($hr.ft^2.°F/Btu$)	RSI-value ($m^2.°K/Watts$)	Thickness** (in)	Thickness** (mm)	Width*** (in)	Width*** (mm)
ASTM C 665	30	5.3	10¼	270	16, 24	406, 610
Foil-faced	19	3.3	6¼	165	16, 24	406, 610
Type III, Class B	13	2.3	3½	89	16, 24	406, 610
Category 1	11	1.9	3⅝	92	16, 24	406, 610

* 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 are 48 and 96 inch batts.

CERTIFIED
MINIMUM 25% RECYCLED CONTENT
• At least 20% post-consumer glass and the balance post-industrial glass (North American plant-wide average).
SCIENTIFIC CERTIFICATION SYSTEMS 1-800-ECO-FACTS

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 foil-faced 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.

View MSDS

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