



Formaldehyde-free™ Fiber Glass Insulation

JM FORMALDEHYDE-FREE™ FIBER GLASS INSULATION

JM Formaldehyde-free™ fiber glass building insulation offers superior thermal and acoustical performance—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 is the only company in the industry with a complete line of fiber glass building insulation made without formaldehyde. Visit specJM.com for more information.

PRODUCT DESCRIPTION

Johns Manville Kraft-Faced insulation is a lightweight thermal and acoustical fiber glass insulation made of long, resilient glass fibers bonded with an acrylic thermosetting binder. The kraft facing can serve as an integral vapor retarder.

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 cavity and installed in any part of a building.

APPLICATIONS

- Wood frame construction – residential homes and light commercial buildings
- Metal frame construction – commercial buildings
- Pre-manufactured homes – modular or manufactured housing
- Engineered wood construction – assemblies framed with 12" to 19.2" (305 mm to 488 mm) on-center cavities, wide-spaced wood trusses or I-joists
- Interior wall sound control – interior walls and floor and ceiling assemblies (for sound class ratings for wall assemblies, see the appropriate STC values data sheet for either steel or wood framing)

INSTALLATION

Kraft-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 or joists. The kraft facing 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

This 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 II, Class C, Category 1
ASTM E 96 Permeability (Kraft) 1.0 Perm

Kraft-Faced

JM Formaldehyde-free™ Thermal and Acoustical Fiber Glass Insulation



PERFORMANCE ADVANTAGES

- Improves indoor air quality – because it's made without formaldehyde.
- Thermally efficient – provides effective resistance to heat transfer with R-values up to R-38 (RSI-6.7).
- Controls moisture – kraft facing resists water vapor transmission.
- Controls sound – reduces transmission of conversations and equipment noises through interior and exterior walls and floor and ceiling assemblies.
- 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.

BUILDING CODE COMPLIANCE AND FIRE HAZARD CLASSIFICATION

| | ICBO | SBCCI | BOCA | IBC/IRC | Flame Spread* | Smoke Developed* |
|-------------|------------------|------------------|------------------|----------------------------|---------------|------------------|
| Kraft-Faced | Types III, IV, V | Types III, V, VI | Types III, IV, V | Types III, IV, V/All Types | Not Rated | Not Rated |

*Per ASTM E 84.

AVAILABLE FORMS*

| Specification Compliance | R-Value (hr•ft ² •°F/Btu) | RSI-Value (m ² •°C/Watts) | Thickness** | | Width*** | | | |
|--------------------------|--------------------------------------|--------------------------------------|-------------|--------|--------------------|-------------------|--------------------|--------------------|
| | | | (in) | (mm) | Metal Framing (in) | Wood Framing (in) | Metal Framing (mm) | Wood Framing (mm) |
| ASTM C 665 | 38c | 6.7 | 10 ¼ | 260 | — | 15 ¼, 23 ¾ | — | 394, 600 |
| Kraft-Faced | 38 | 6.7 | 13 | 330 | 16, 24 | 16, 24 | 406, 610 | 406, 610 |
| Type II, Class C | 30c | 5.3 | 8 ¼ | 210 | — | 15 ¼, 23 ¾ | — | 394, 600 |
| Category 1 | 30 | 5.3 | 10 ¼ | 260 | 12, 16, 24 | 12, 16, 19, 24 | 304, 406, 610 | 305, 406, 483, 610 |
| | 25 | 4.4 | 8 ½ | 216 | — | 15, 23 | — | 381, 584 |
| | 22 | 3.9 | 7 ½ | 191 | — | 15, 19, 23 | — | 381, 483, 584 |
| | 21 | 3.7 | 5 ½ | 140 | — | 15, 23 | — | 381, 584 |
| | 19 | 3.3 | 6 ½ | 165 | 16, 24 | 11, 15, 19, 23 | 406, 610 | 279, 381, 483, 584 |
| | 15 | 2.6 | 3 ½, 3 ¾ | 89, 92 | — | 15, 23 | — | 381, 584 |
| | 13 | 2.3 | 3 ½, 3 ¾ | 89, 92 | 16, 24 | 11, 15, 23 | 406, 610 | 279, 381, 584 |
| | 11 | 1.9 | 3 ½, 3 ¾ | 89, 92 | 16, 24 | 11, 15, 23 | 406, 610 | 279, 381, 584 |

* Consult your local JM 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 JM sales representative. Standard product lengths include 48", 93" and 96" (1.22 m, 2.36 m and 2.44 m) batts.
c Cathedral ceiling application

SHORT FORM SPECIFICATION

All insulation shown on drawings or specified herein shall be "Johns Manville Kraft-Faced Formaldehyde-free Thermal and Acoustical 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.

LIMITATIONS OF USE

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



5% Pre-consumer
20% Post-consumer
SCIENTIFIC CERTIFICATION SYSTEMS
SCS-MC-01073

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of kraft-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.

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.



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