1. Product Name

- Johns Manville Formaldehyde-Free™ Unfaced Batts and Rolls
- Johns Manville Formaldehyde-Free ComfortTherm® Batts and Rolls
- Johns Manville Formaldehyde-Free Kraft-Faced Batts and Rolls
- Johns Manville Formaldehyde-Free FSK-25 Faced Batts
- Johns Manville Formaldehyde-Free Insul-SHIELD® Boards
- Johns Manville Formaldehyde-Free Microlite® "L" Wide Blanket Rolls

2. Manufacturer

Johns Manville
717 17th Street
Denver, CO 80202
(800) 654-3103
Fax: (303) 978-2318
E-mail: pics@jm.com
www.specJM.com

3. Product Description

BASIC TYPES & COMPOSITION

Johns Manville Formaldehyde-Free ComfortTherm batts and rolls are wrapped in plastic to reduce airborne dust during installation. These batts resist heat transfer, absorb sound and are designed for installation above the panels in suspended ceiling systems to enhance acoustical and thermal performance.

Johns Manville thermal and acoustical fiber glass batts and rolls are made of long, resilient glass fibers bonded with an acrylic thermosetting binder. Batts are available in flame resistant ComfortTherm and FSK-25 faced (foil-scrim-kraft), unfaced and with a kraft or foil facing. Roll products are available in ComfortTherm, unfaced and kraft faced. Unfaced batts are ideal for sound control in interior walls.

Insul-SHIELD insulation is a series of semi-rigid or rigid thermal and acoustical fiber glass insulating boards for custom curtain wall applications. Because of its rigidity, Insul-SHIELD 300 and 600 can be attached without framing; its resiliency prevents slumping and uninsulated voids. Coated Black Insul-SHIELD rolls are recommended in applications requiring excellent acoustic performance, such as theaters, casinos and arcades.

Microlite "L" wide blanket rolls are highly resilient thermal and acoustic fiber glass blanket insulation designed for lamination to a wide choice of custom vapor-retarding facings for metal building roof and wall applications. The unique JM manufacturing process provides the Microlite "L" blanket with a uniformity that gives the fiber glass blanket a smooth laminating surface.

SIZES

Consult manufacturer's detailed product information for available sizes.

LIMITATIONS

Fiber glass insulation has passed the ASTM E136 test and is considered noncombustible by the major building codes. When provided with a standard vapor retarder the composite product cannot be considered noncombustible as defined in most codes.

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- ASTM C553 Standard Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications
- ASTM C612 Standard Specification for Mineral-Fiber Block and Board Thermal Insulation
- ASTM C665 Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ASTM E119 Standard Test Methods for Fire Tests of Building Construction and Materials
- ASTM E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C

International Conference of Building Officials (ICBO):

- Uniform Building Code
- Building Officials and Code Administrators International (BOCA)
- National Building Code

- Southern Building Code Congress International (SBCCI)
- Standard Building Code

APPROVALS

Products comply with requirements of ICBO, BOCA and SBCCI codes. Contact manufacturer for more information on approvals and code compliance.

ENVIRONMENTAL CONSIDERATIONS

These products are formaldehyde-free and will not off-gas formaldehyde in the indoor air environment.

Johns Manville fiber glass products contain at least 25% recycled glass. Use of adequate thermal insulation can result in reduced energy use in buildings, thereby reducing polluting emissions. Use of effective sound control insulation can improve building environmental quality and user satisfaction.

PHYSICAL/CHEMICAL PROPERTIES

Products comply with ASTM C665, ASTM C612 or ASTM C553.

Test reports, performance data and additional product information are available upon request.

FIRE PERFORMANCE

Flamespread rating of 25/50 per ASTM E84. Glass fiber passes ASTM E136 test and is considered noncombustible.

SOUND PERFORMANCE

Sound performance varies depending on application. Various STC and NRC ratings result with different thickness, density and

construction. Refer to specific design assembly construction details.

5. Installation

PREPARATORY WORK

Handle and store product according to Johns Manville recommendations.

Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Verify that site conditions are acceptable for installation of insulation. Do not proceed with installation of insulation until unacceptable conditions are corrected.

METHODS

General

Install building insulation to comply with thermal and sound control requirements. Fit insulation to areas and conditions required without voids.

Fit insulation to form a complete, tight fitting insulation blanket around required areas. Position flanged blankets as recommended by manufacturer for application. Friction fit or fasten insulation between framing members or continuous, with sealed joints. If a separate vapor retarder is required, position it as indicated on drawings.

Coordinate insulation installation adjacent to lighting fixtures, fans or other heat generating electrical devices, or adjacent to other heat generating devices, including furnaces, heaters and flues, with manufacturer's recommendations and regulations of authorities having jurisdiction.

Acoustical Insulation Installation

Install acoustical insulation materials where indicated in sound rated assemblies. Maintain acoustical rating of assembly.

Board Insulation Installation

Cut and friction fit insulation between vertical or z-shaped framing. Alternatively install insulation on impaling pins or with suitable adhesives. Place pins 3" - 5" (76 - 127 mm) from the edges of the product.

Complete installation recommendations are available from the manufacturer.

PRECAUTIONS

Minimize sound leakage and convective thermal transfer by caulking and sealing around all potential leakage points. Avoid connecting ducts, junction boxes, pipes and other means of sound conduction from one space or wall surface to another. When possible, decouple one side of the construction from the other using staggered framing members or resilient channels.

Vapor retarders may burn and must not be left exposed. They must be covered with gypsum wallboard or other code-approved materials and installed in compliance with building codes.

BUILDING CODES

Current data on building code requirements and product compliance may be obtained from Johns Manville technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. Availability & Cost

AVAILABILITY

These products are available throughout the United States.

COST

Budget installed cost information may be obtained from the manufacturer.

7. Warranty

Johns Manville offers a limited 1 year warranty on these insulation products. Contact manufacturer for more information.

The physical and chemical properties of the insulation products listed in Johns Manville product information represent typical, average values obtained in accordance with accepted test methods and are subject to normal manu-

facturing variations. They are supplied as a technical service and are subject to change without notice. Any reference to numerical flamespread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Contact the nearest sales office for the latest 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 and for information on other Johns Manville insulation products and systems, contact the manufacturer.

8. Maintenance

No maintenance is required for properly installed insulation products.

9. Technical Services

Local sales representatives provide design assistance and technical support. For assistance in locating a local representative, contact Johns Manville.

10. Filing Systems

- Reed First Source
- MANU-SPEC®
- Sweet's Catalog Files
- Additional product information is available from the manufacturer upon request.