

# *Building Insulation Guide*



# FIBERGLASS

As one of America's most common insulation materials, JM Formaldehyde-free™ thermal and acoustical fiberglass insulation is comprised of long, resilient glass fibers bonded with a thermosetting resin. **Where to use: walls, ceilings, floors and attics.**

## ComfortTherm®

BATTS AND ROLLS



Wrapped in plastic for dust-free and itch-free handling and installation.

### ADVANTAGES

**Thermally Efficient:** Effective resistance to heat transfer, with R-values up to R-30.

**Formaldehyde-Free:** Will not off-gas formaldehyde in the indoor environment.

**Sound Control:** Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

**Fire-Resistant:** Can be left exposed where building codes permit. Flame Spread of 25 or less and Smoke Developed of 50 or less.

**Resilient Inorganic Glass:** No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

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

### AVAILABILITY\*

**R-Values:** R-11 – R-30

**Widths:** Wood Stud (15" and 23") or Attics and Steel Stud (16" and 24")

**Lengths:** Batt (48" and 93") or Rolls (22' and 32')

**Thicknesses:** Various. Engineered for maximum performance within the cavity.

## Kraft- and Foil-Faced Fiberglass

BATTS AND ROLLS



Helps control moisture in exterior walls.

### ADVANTAGES

**Thermally Efficient:** Effective resistance to heat transfer, with R-values up to R-49 for kraft-faced and up to R-30 for foil-faced.

**Formaldehyde-Free:** Will not off-gas formaldehyde in the indoor environment.

**Sound Control:** Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

**Fire-Resistant: Foil-faced:** Flame Spread of 75 or less and Smoke Developed of 150 or less, **Kraft-faced:** no rating.

**Resilient Inorganic Glass:** No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

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

### AVAILABILITY\*

**R-Values:** R-11 – R-49

**Widths:** Wood Stud (15" and 23") or Steel Stud (16" and 24")

**Lengths:** Batt (48", 93", 94", 96" and 105") or Rolls (up to 70'6")

**Thicknesses:** Various. Engineered for maximum performance within the cavity.

## Unfaced Fiberglass

BATTS AND ROLLS



Available for wood or steel stud framing. May be used with a separate vapor retarder when moisture control is required.

### ADVANTAGES

**Thermally Efficient:** Effective resistance to heat transfer, with R-values up to R-49.

**Formaldehyde-Free:** Will not off-gas formaldehyde in the indoor environment.

**Sound Control:** Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

**Fire-Resistant:** Flame Spread of 25 or less and Smoke Developed of 50 or less.

**Resilient Inorganic Glass:** No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

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

### AVAILABILITY\*

**R-Values:** R-11 – R-49

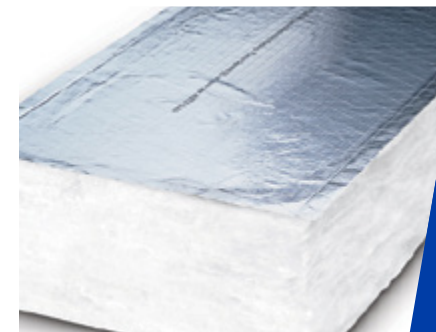
**Widths:** Wood Stud (15" and 23") or Steel Stud (16" and 24")

**Lengths:** Batt (48", 93", 96" and 105") or Rolls (up to 40')

**Thicknesses:** Various. Engineered for maximum performance within the cavity.

## FSK-25 Faced Fiberglass

BATTS



Flame-resistant faced insulation can be used as a vapor retarder.

### ADVANTAGES

**Thermally Efficient:** Effective resistance to heat transfer, with R-values up to R-30.

**Formaldehyde-Free:** Will not off-gas formaldehyde in the indoor environment.

**Sound Control:** Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.

**Fire-Resistant:** Flame Spread of 25 or less and Smoke Developed of 50 or less. Can be left exposed where building codes permit.

**Resilient Inorganic Glass:** No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

**Superior Performance:** Stable bonded glass fibers will not slump, settle or break down during normal applications.

### AVAILABILITY\*

**R-Values:** R-11 – R-30

**Widths:** 15", 16" and 24"

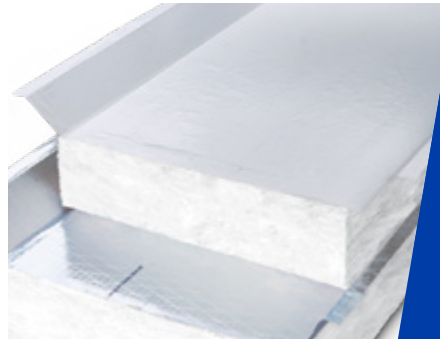
**Lengths:** 48" and 96"

**Thicknesses:** Various. Engineered for maximum performance within the cavity.

# FIBERGLASS

## Panel Deck FSK-25 and PSK<sup>+</sup> Faced

**FIBERGLASS BATTS**



Extra-wide tabs extend the full length along sides for modular roof deck applications.

### ADVANTAGES

- Thermally Efficient:** Effective resistance to heat transfer, with R-values up to R-30.
- Formaldehyde-Free:** Will not off-gas formaldehyde in the indoor environment.
- Sound Control:** Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.
- Fire-Resistant:** Flame Spread of 25 or less and Smoke Developed of 50 or less. Can be left exposed where building codes permit.
- Resilient Inorganic Glass:** No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.
- Superior Performance:** Stable bonded glass fibers will not slump, settle or break down during normal applications.

### AVAILABILITY\*

- R-Values:** R-19 and R-30
- Widths:** 23" and 24"
- Lengths:** 48", 93" and 96"
- Thicknesses:** 6.5" and 10.25"

## JM Climate Pro<sup>®</sup>

**BLOW-IN FIBERGLASS**



Fits hard-to-reach cavities and corners for easier and faster installation.

### ADVANTAGES

- Easy Installation:** Insulates attics or spaces of all shapes and sizes without cutting or fitting.
- Complete Coverage:** Effective in tight spaces, areas with large amounts of cross-bridging or small gaps and voids.
- Thermally Efficient:** Effective resistance to heat transfer. No settling; no loss of R-value following installation.
- Formaldehyde-Free:** Will not off-gas formaldehyde in the indoor environment.
- Sound Control:** Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.
- Fire-Resistant:** Flame Spread of 25 or less and Smoke Developed of 50 or less.
- Resilient Inorganic Glass:** No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.
- Superior Performance:** Stable bonded glass fibers will not slump, settle or break down during normal applications.

### AVAILABILITY\*

- Coverage:** 73 ft<sup>2</sup>/bag at R-30

## JM Spider<sup>®</sup> Plus

**BLOW-IN FIBERGLASS**



Fibers interlock into cavities to fill gaps and voids with no adhesive or netting.

### ADVANTAGES

- Fast Drying:** Dries immediately once installed.
- Complete Coverage:** Effective in tight spaces, areas with large amounts of cross-bridging or small gaps and voids.
- Thermally Efficient:** Effective resistance to heat transfer, with R-values up to R-25 in a 2'x 6' steel stud cavity.
- Formaldehyde-Free:** Will not off-gas formaldehyde in the indoor environment.
- Sound Control:** Reduces sound transmission through exterior and interior walls, floor and ceiling assemblies.
- Fire-Resistant:** Flame Spread of 25 or less and Smoke Developed of 50 or less.
- Resilient Inorganic Glass:** No rotting, mildew or deterioration. Also noncorrosive to pipes, wiring and metal studs.

### AVAILABILITY\*

- Coverage:**
- Wood Stud:** 27.6 ft<sup>2</sup>/bag at R-30
- Steel Stud:** 25 ft<sup>2</sup>/bag at R-33



\*See complete data sheet at [www.jm.com](http://www.jm.com). Product image typical of material produced in the U.S.A. Actual color of products may vary from image. <sup>1</sup>Polypropylene-scrim-kraft.

# FIBERGLASS SPECIFICATION COMPLIANCE

Product	ASTM Standards	Flame Spread ASTM E84	Smoke Development ASTM E84	Critical Radiant Flux ASTM E970	Water Vapor Permeance Facing ASTM E96	Water Vapor Sorption ASTM C1104	Odor Emission ASTM C1304	Corrosiveness ASTM 665	Fungi Resistance ASTM C1388	VOC Emissions ASTM ES Section 011350	Combustion Characteristics ASTM E136
<b>ComfortTherm Fiberglass</b>	ASTM C665, Type II, Class A, Category 1 or 2 [Standard ComfortTherm is Category 1 (vapor retarder). ComfortTherm for hot, humid climates is Category 2 (non-vapor retarder).]	≤25	≤50		0.5 Perms (29 ng/ Pa-s-m <sup>2</sup> )						N/A*
<b>Unfaced Fiberglass</b>	ASTM C665, Type I				N/A						Pass
<b>Kraft-Faced Fiberglass</b>	ASTM C665, Type II, Class C, Category 1	N/A	N/A		1.0 Perms (57 ng/ Pa-s-m <sup>2</sup> )						
<b>Foil-Faced Fiberglass</b>	ASTM C665, Type III, Class B, Category 1	≤75	≤150	>0.12 W/ cm <sup>2</sup> (0.11 Btu/ ft <sup>2</sup> s)	0.05 Perms (3 ng/ Pa-s-m <sup>2</sup> )	5% or less by weight	Pass	Pass	Pass	Pass	N/A*
<b>FSK-25 Faced</b>	ASTM C665, Type III, Class A, Category I				0.1 Perms (6 ng/ Pa-s-m <sup>2</sup> )						
<b>Panel Deck FSK-25</b>											
<b>Panel Deck PSK</b>	ASTM C665, Type II, Class A, Category 1	≤25	≤50								
<b>JM Climate Pro Blow-In/ JM Attic Protector</b>	ASTM C764, Type I				N/A						Pass
<b>JM Spider Plus</b>											



\*Fiberglass is noncombustible.



**JM** **Johns Manville**  
A Berkshire Hathaway Company

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