

Knauf Batt Insulation

MSDS

Submittal Sheets

Building Insulation

QuietTherm® QT

High Density HD

Commercial Building Insulation



Description

Knauf's Batts and Blankets are thermal and acoustical products made from highly resilient, inorganic glass fibers bonded by a thermosetting resin. The products are available unfaced or with kraft, foil, or flame-rated FSK-25 (Foil-Scrim-Kraft) foil facings.

Application

Knauf's Batts and Blankets are cost-effective thermal and acoustical barriers for energy-efficient construction. Their consistent quality, low dust, and clean-cutting resilient fibers make fabrication easy and installation fast. The products can be used in new and retrofit wood and metal frame applications in residential and commercial structures, as well as in manufactured housing applications. These applications include thermal and acoustical treatments to walls, ceilings, and floors.

In addition, **High Density (HD)** batts are available where optimal thermal performance is required and space for insulation is limited. High Density Cathedral Ceiling Batts, for example, deliver greater R-value in less space, so builders can increase R-values and still maintain adequate space for ventilation.

Knauf **QuietTherm®** Insulation's excellent acoustical properties reduce sound transmission when properly installed in partition walls, ceilings, and floor assemblies.

Knauf **Staple-Free** Batts are flange-less kraft-faced batts which friction fit between wood studs eliminating the need to staple in place. These batts are designed for use in standard 2" x 4" wood framed construction where the stud spacing is no more than 16" on center.

Sectors

Residential

Knauf offers a full line of standard and high-density batts and blankets with a wide range of sizes and R-values. Available unfaced, or with kraft or flame-rated (FSK) foil facings, Knauf's residential insulation can be used for cavity walls, floors, ceilings, attics, basements, and crawl spaces. It is highly resilient, recovering quickly to full thickness. It also greatly reduces the transmission of noise in the house.

Light Commercial

This full line of standard and high-density batts and blankets for wood and metal frame construction is available unfaced or with kraft, foil, or flame-rated (FSK) foil facings. Knauf **QuietTherm** Insulation can improve STC ratings in wood stud construction by 3 to 5 points and in metal stud construction by 8 to 10 points, depending on the complexity of the wall configuration and layers of insulation. Knauf's commercial building insulation can be used for exterior and partition walls, floors, crawl spaces, and a variety of ceiling applications.

Manufactured Housing

Knauf Manufactured Housing Insulation is a full line of batts and blankets with a wide range of R-values, lengths, and widths. It is designed to work efficiently with pre-manufactured structures of all widths. Available unfaced in widths up to 192" (4.88 m) or with kraft facing in widths up to 24" (610 mm), it can be used for cavity walls, floors, and ceiling applications. And **QuietTherm** sound batts are available for partition walls.

Retail

Website Options

Language

English (United States)
français (Canada)

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Knauf's full line of retail batts and blankets comes in a wide range of sizes and R-values, and is available unfaced or with kraft facing. Most blankets are conveniently perforated every 94" (2.39 m) to make installation in standard 8' walls a snap, or they can be used as-is to insulate long runs like floor or ceiling areas. This highly resilient insulation recovers quickly for a snug fit and assured thermal performance. Knauf's retail roll packaging has easy-to-identify R-value and application information to help your customers find the right product quickly.

Features and Benefits

Thermally Efficient

- Excellent insulating value.
- NAHB-certified thermal performance.

Acoustical Barrier

- Reduces airborne sound transmission.
- Significantly improves STC ratings of wall configurations.

Installation

- Extra-wide stapling flange for faster, easier installation.
- Durable facing resists tears and is marked in one-foot increments.

Specification Compliance

- ASTM C 665^{*}; Type I, Class A (unfaced)
 - ASTM C 665^{*}; Type II, Class C (kraft faced)
 - ASTM C 665^{*}; Type III, Class A (FSK-25 foil faced)
 - ASTM C 665^{*}; Type III, Class B (foil faced)
 - GREENGUARD Certified
 - GREENGUARD For Children & Schools Certified
 - California Energy Commission
 - Dade County, Florida
 - MEA #498-90-M
 - State of Minnesota
- ^{*}Federal Specification HH-I-521F has been canceled and replaced by ASTM C 665.

Technical Data

Surface Burning Characteristics

- Unfaced and flame-rated (FSK) foil faced products do not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E 84.

Facing Permeance

- Kraft faced products have a water vapor permeance of 1.0 or less.
- FSK foil faced products have ratings of .04.
- Foil faced products have ratings of .05.

Formaldehyde Off-Gassing

- Tested and shown to be below OSHA limits.
- Diminishes to immeasurable levels within a short time frame.

Water Vapor Sorption (ASTM C 1104)

- 5% maximum by weight.

Corrosion (ASTM C 665)

- No greater than sterile cotton.

Microbial Growth (ASTM C 1338)

- Does not support microbial growth.

Noncombustibility (ASTM E 136)

- Noncombustible (unfaced).

Packaging

- Our packages feature complete installation instructions and highly visible color coding system, which follows industry standards, making Knauf products easy to select.

- Knauf packages are lightweight, stack without slipping, and are sized to fit easily under floors and through scuttle holes.

Batts

- Batts are packaged in strong, white poly bags that offer excellent protection from abuse, dust, and moisture.
- Knauf's unitized packaging combines four batt bags in one convenient banded package, which requires less space for storage and makes loading, unloading, and job site delivery easier.

Rolls

- Standard rolls may be skip-chopped to specific lengths and are packaged in clear poly overwrap that protects the product during shipment and storage.
- Retail rolls stack easily for display and are unitized to simplify storage and handling.
- Retail rolls have complete DIY installation instructions and helpful product selection guides.



Knauf Batt and Blanket Insulation products are certified for indoor air quality as a low emitting product by The GREENGUARD Environmental Institute™, to both the GREENGUARD Certification Program™ and the more stringent GREENGUARD For Children and Schools™ standard. <http://www.greenguard.org>

BATTS AND BLANKETS FORMS AVAILABLE

WOOD FRAME CONSTRUCTION

R-Value	Thickness	Width	Unfaced	Kraft	Foil	FSK-foil
R-11	3.5" (89 mm)	11", 15", 16", 19", 23", 24" (279, 381, 406, 483, 584, 610 mm)	•	•	•	•
R-13	3.5" (89 mm)	11", 15", 16", 19", 23", 24" (279, 381, 406, 483, 584, 610 mm)	•	•	•	•
R-15HD*	3.5" (89 mm)	11", 15", 19", 23" (279, 381, 483, 584 mm)	•	•		
R-19	6.25" (159 mm)	11", 15", 16", 19", 23", 24" (279, 381, 406, 483, 584, 610 mm)	•	•	•	•
R-21HD*	5.5" (140 mm)	15", 23" (381, 584 mm)	•	•		
R-22	6.5" (165 mm)	15", 16", 19", 23" (381, 406, 483, 584 mm)	•	•		
R-25	8.5" (216 mm)	15", 23" (381, 584 mm)	•			
R-26	9" (229 mm)	16", 24" (406, 610 mm)	•	•		
R-30HD*	8.25" (210 mm)	15", 23" (381, 584 mm)	•	•		
R-30	10" (254 mm)	11", 16", 19", 24" (279, 406, 483, 610 mm)	•	•	•	•
R-38HD*	10.25" (261 mm)	15", 23" (381, 584 mm)	•	•		
R-38	12" (305 mm)	16", 24" (406, 610 mm)	•	•		•

*HD-High Density Insulation

METAL FRAME CONSTRUCTION

R-Value	Thickness	Width	Unfaced	Kraft	Foil	FSK-Foil
R-8 QT**	2.5" (64 mm)	16", 24" (406, 610 mm)	•			
R-11 QT**	3.5" (89 mm)	16", 24" (406, 610 mm)	•	•		
R-13 QT**	3.5" (89 mm)	16", 24" (406, 610 mm)	•	•		
R-19 QT**	6.25" (159 mm)	16", 24" (406, 610 mm)	•	•		

**QT-QuietTherm Insulation

MANUFACTURED HOUSING ROLLS

R-value	Thickness	Width	Unfaced	Kraft	Foil	FSK-Foil
R-7	2.25" (64 mm)	15", 23", 48", 60", 72", 84", 90", 144", 164", 168" (381, 584, 1219, 1524, 1829, 2134,		•		

2286, 3658, 4166, 4267 mm)

R-11	3.5" (89 mm)	15", 23", 48", 60", 72", 84", 90", 144", 164", 168" (381, 584, 1219, 1524, 1829, 2134, 2286, 3658, 4166, 4267 mm)	•	•
R-14	4.5" (114 mm)	15", 23" (381, 584 mm)	•	
R-19	6.25" (159 mm)	15", 23", 60" (381, 584, 1524 mm)	•	•
R-30	10" (254 mm)	16", 24" (406, 610 mm)	•	