



**INSTALLATION
RECOMMENDATIONS
FOR FIBERTEK
BIGBATT[™]
FIBER GLASS
INSULATION**

www.fibertekinsulation.com

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What Does Thermal Insulation Do?

Heat Control

Insulation resists the flow of heat. Heat is a form of energy. By reducing heat flow in a properly insulated building, less energy is used for winter heating and summer cooling. Energy costs are high today and will be even higher in the future. Insulating today will help save both dollars and energy. Savings vary. Find out why in the seller's fact sheet on R-values. The higher the R-value, the greater the insulating power.

Sound Control

Insulation reduces sound transmission. An insulated floor, wall or ceiling will have an improved Sound Transmission Class (STC) compared with a similar building section with no insulation. As an example, 3-1/2 inches of fiber glass insulation in a wall can improve the STC from 4 to 11 points, depending upon construction details.

Moisture Control

A vapor-resistant membrane (commonly called a vapor retarder) attached to batt or roll insulation, or installed separately, decreases the possibility of moisture vapor condensing to water within the structure.

a pre-cut piece of insulation.

Areas To Insulate

1. Exterior walls. Sections sometimes overlooked are walls between living spaces and unheated garages or storage rooms, dormer walls, and the portions of walls above ceilings of adjacent lower sections of split-level homes.
2. Ceilings with cold spaces above, including dormer ceilings.
3. Knee walls of attic spaces finished as living quarters.
4. Sloped walls and ceilings of attic spaces finished as living quarters.
5. Perimeters of slabs on grade.
6. Floors above vented crawl spaces. Insulation may also be placed on crawl space floors and walls.
7. Floors over unheated or open spaces such as over garages or porches. Floors over unheated basements. The cantilevered portions of floors.
8. Basement walls.
9. Band or header joists, the wall sections at floor levels.
10. Interior walls, ceilings and floors where sound control is desired. Common walls and floors between separately heated apartment or townhouse units should also be insulated. In addition to its thermal benefit, the insulation improves sound attenuation and fire resistance.

What is BIGBATT[™] Fiber Glass Insulation?

The basic materials, sand and glass, are melted and then spun into wool-like fibers. These are processed into batt or roll insulation, with or without facings, and in loose form for pneumatic applications. See ASTM C 665 (Mineral Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing). For more information on ASTM Standards, ask for NAIMA Facts #8.

Where is Insulation Installed?

Batts are designed for use in framing members of residential and other light-frame constructions. Standard widths are available for 16 and 24-inch on-center spacing; special widths are available for steel studs. A batt is

How Is BIGBATT[™] Insulation Labeled?

Fiber glass building insulation is identified and labeled by R-value. "R" stands for resistance to heat flow. (The higher the R-value the greater the insulating power. Ask your seller for the fact sheet on R-values.)

The R-values are printed on the insulation batts. Most common R-values of batts and rolls are 11, 13, 15, 19, 21, 22, 25, 30, and 38. R-values can be added. If, for example, a ceiling requires R-38 insulation, two layers of R-19 batts or rolls can be used.

Note: When batts or rolls are compressed to less-than normal thickness during installation, the rated resistance value will be reduced.

Consumer Information

FTC Home Insulation Rule

The United States Federal Trade Commission's (FTC) Labeling and Advertising of Home Insulation Rule requires installers to provide each customer (builder or consumer) with a signed and dated contract or receipt for the insulation installed. This applies to all insulation except loose-fill and aluminum foil (16 C.F.R. §460.17). The receipt for loose-fill must show the coverage area, initial installed thickness, minimum settled thickness, Rvalue, and the number of bags used (16 C.F.R. §460.17). The manufacturer must also provide a manufacturer's fact sheet. Installers must have this information and show it to customers before they agree to buy the insulation.

A new-home seller must put the following information in every sales contract: the type, thickness, and R-value of the insulation that will be installed in each part of the house (16 C.F.R. §468.16).

Types of BIGBATT[™] Building Insulation

BIGBATT[™] Faced Insulation

BIGBATT[™] insulation is available with facings already attached. The facing material is a vapor retarder. Vapor retarding facings consists of asphalt-coated kraft paper, aluminum foil or FSK (Foil, Scrim, Kraft). A vapor retarder's purpose is to resist the movement of moisture vapor to cold surfaces where it could condense to liquid water.

BIGBATT[™] facings extend over the sides of the insulation to provide strengthened flanges that can be stapled to wood framing to hold the insulation in place where recommended by the manufacturer. (Qwik-BATT[™] products may be pressure fitted between framing without stapling.

BIGBATT[™] Unfaced Insulation

BIGBATT[™] Unfaced wall insulation is made wider to permit installation by pressure fitting between either wood or metal framing. No fastening is required if the insulation material is held in place on all four sides like a typical wall cavity. The insulation in knee walls should be held in place with wire lacing or some equivalent method to prevent the insulation from falling out of the wall cavity over time. A separate vapor retarder may be required when unfaced insulation is used.

Insulation Sizes

FiberTEK[®] insulation is packaged as batts and is available in a variety of sizes. (See Page 9)

Scheduling BIGBATT[™] Work

Construction debris must be removed from spaces to be insulated. Insulation should be installed just before the interior finish is applied.

This means that the following-listed work, as applicable, has been performed.

- Foundation walls are in place. Sidewalls, floors, roof and ceiling have been framed.
- Roofing is finished and doors, windows, subflooring and sheathing are in place.
- Plumbing, wiring (including telephone and other low-voltage wiring) and heating, ventilating and air conditioning work have been completely roughed in. If any part of this work is done following the installation of the insulation, the vapor retarder may be damaged and gaps may be made in the insulation. Openings in the insulation or vapor retarder will reduce the effectiveness of the material.

Special Situations:

In some constructions, it will be necessary to install part of the insulation before the sheathing is applied or before the mechanical or electrical work is roughed-in. These are areas that will be impossible or difficult to insulate later, such as where plumbing fixtures are next

to outside walls and at soffits or overhangs.

Where attics are accessible, BIGBATT_{tm} ceiling insulation may be installed from the attic space after the ceiling finish is in place. Many roofs, however, are of shallow pitch, making it difficult to insulate the outer edges of the ceiling from above. The work, therefore, is best accomplished before the ceiling finish is installed.

Floors over unheated spaces that will not receive a bottom surface may be insulated at any time after the subflooring and mechanical and electrical work are complete.

BIGBATT_{tm} Installation Techniques

BIGBATT_{tm} Faced Insulation

There are three commonly accepted methods of installing BIGBATT_{tm} faced insulation in wood framing members:

Inset Stapling

When insulating side walls, place the BIGBATT_{tm} insulation in the cavity and check to be sure it completely fills the cavity, top to bottom. When insulating ceilings, be sure that each BIGBATT_{tm} is butted closely to the next one before fastening. Gently press the insulation at the sides into the framing cavity, usually about 3/4 inch, until the outside edge of the flange is flush with the face of the framing. When inset stapling BIGBATT_{tm} insulation between inclined or vertical framing members, as in cathedral ceilings or walls, start stapling at the top and work down. Use enough staples to hold the insulation firmly in place and avoid gaps and “fishmouths” between flanges and framing.

It is recommended that a single batt be used inside walls. However, when insulating with 48” batts, make sure the two pieces are butted snugly together. Use R-11, R-13 or R-15 with 2 x 4 stud construction and R-19, R-21 or R-22 with 2 x 6 studs. Remember, compressing insulation to fit a cavity will result in some loss of R-value.

Face Stapling

Place the BIGBATT_{tm} insulation between framing members and check to be sure it fits the cavity at both

ends. With facing material flush with the face of the framing, the flanges will overlap the framing. Staple the flanges to the face of the framing, using enough staples to hold the insulation firmly in place and avoid gaps and fishmouths.

The flange of the faced BIGBATT_{tm} placed in the next cavity will overlap the previously stapled flange. When more than one batt is used, pieces must be snugly butted.

Inset or Face Stapling?

Both methods are widely used and can provide acceptable performance. Inset stapling is usually preferred by the wall finish trades because it allows adhesive application of wall board. Kraft vapor retarders are flammable and should not be left exposed. During construction it should be covered with the interior finish material as soon as possible.

QwikBATT_{tm} Pressure Fit– No Stapling

The higher density of QwikBATT_{tm} products helps hold them in place without a noticeable loss in the moisture protection of the vapor retarder. To install QwikBATT_{tm} faced products by pressure fit, gently place the insulation into the cavity space between framing. Make sure the insulation facing is flush with the face of the stud. The insulation must fit snugly at the sides and ends.

BIGBATT_{tm} Unfaced Insulation

To install BIGBATT_{tm} unfaced insulation, gently place the insulation into the cavity space between framing members. It is important that insulation be correctly sized for the cavity and fit snugly at the sides and ends. No fastening is required if the insulation material is held in place on all four sides like a typical wall cavity. The insulation in knee walls should be held in place with wire lacing or some equivalent method to prevent the insulation from falling out of the wall cavity over time.

Note: Wherever batts of any type are too short to fill a stud cavity, a piece should be cut to size to fill the gap. When insulation is too long, it should be cut to fit properly, not doubled over or compressed.

Lay-In

After the ceiling finishing material has been applied, faced or unfaced BIGBATT_{tm} insulation can be laid be-

tween framing members and gently pressed into place. Ceiling insulation is held in place by gravity. Vapor retarder facings should face down in ceilings in most climate areas. There are four techniques for holding insulation in place between floor joists. These are described in the Installation Instructions section.

Narrow-Framed Cavities

Insulate non-standard-width framed spaces by cutting the **BIGBATT_{tm}** and facing about an inch wider than the space to be filled. As an example, to inset staple a batt into a 9-inch stud cavity, cut the **BIGBATT_{tm}** 10 inches wide. Staple the uncut flange as usual. Pull the facing on the cut side to the other stud and staple through the vapor retarder to the stud.

Packing or ‘Chinking’

Special cutting of **BIGBATT_{tm}** material may be required for less-than-standard width or length cavities or for insulating around window and door framing, stud corners, band joists, and between chimneys and framing.

If a faced **BIGBATT_{tm}** or **QwikBATT_{tm}** is used, and the space, such as at window framing, is narrow, the insulation may be pulled away from the facing in small pieces and stuffed into the narrow space. Small spaces between studs at the corners of buildings and at intersections of partitions and sidewalls should be treated in the same manner before the sheathing is applied. Where a vapor retarder is required, cover the warm-in-winter side of the narrow space with excess vapor retarder facing, duct tape, or polyethylene film.

Band joists and headers between floors should be insulated. At the band joist the insulation should be allowed to overlap the sill plate to reduce air infiltration between the sill plate and the foundation.

Clearances around fossil-fuel appliances, chimneys and other hot surfaces should meet the requirements of the National Fire Protection Association (NFPA), building code, or the appliance manufacturers' recommendations. Use only unfaced **BIGBATT_{tm}** fiber glass insulation between wood framing and masonry chimneys. Do not place **BIGBATT_{tm}** insulation in air spaces surrounding metal chimneys or fireplaces.

Cantilevered Overhangs

These areas must not be overlooked. If the underside of the cantilever has been closed, insulation must be installed by sliding batts into place from the room below.

Interior Soffits and Drops

Interior soffits and drops, usually located over cabinets and bathrooms, should be constructed in a manner to allow proper insulation. Gypsum board or other suitable material can be applied to the underside of ceiling joists to enable the installation of **BIGBATT_{tm}** or **QwikBATT_{tm}** insulation.

Insulating at Bridging

Bridging or cross bracing of ceiling or floor joists is insulated by splitting a **BIGBATT_{tm}** vertically at the center and packing one half into the lower opening and the other half into the upper opening. Another method is to butt the **BIGBATT_{tm}** to the bridging, then fill the bridging space with scrap or loose insulation.

Double Wall

The super-insulated wall is a double-frame providing a double-depth cavity. The studs are staggered to eliminate thermal and sound paths. Unfaced **BIGBATT_{tm}** fiber glass batts are used in the outer wall. A vapor retarder is applied to the inner stud wall either separately or by using faced batts.

BIGBATT_{tm} Installation Instructions

General

Wherever insulation is installed in a building, it is very important that it fit snugly on all sides. If the insulation is too long for a space, cut it to the correct size. If it is too short, cut a piece to fill the void.

Ceilings

When **BIGBATT_{tm}** ceiling insulation is installed at the same time as **BIGBATT_{tm}** wall insulation, it is usually installed from underneath. **BIGBATT_{tm}**, faced or unfaced, is installed between ceiling joists and butted together. Faced **BIGBATT_{tm}** insulation should be sta-

pled to joists unless **QwikBATT_{tm}** pressure fit material can get the job done faster. All insulation should extend to the outer edge of the exterior wall's top plate.

No stapling is required if insulation is laid in over finished ceilings. The facing should be toward the living space.

In attics where pre-engineered trusses are used and where more than one layer of **BIGBATT_{tm}** insulation is to be applied, the best job is achieved by installing all of the **BIGBATT_{tm}** material between the bottom chords. In attics with conventional joists and rafters, the first layer of insulation is installed between the joists and should be at least the same height as the joists.

The second layer is applied crosswise to the joists. This method provides the most efficient thermal protection. It is particularly important that clearance for air movement from vent openings be maintained. If there are soffit vents, there should be about 1-inch of unblocked free air space between the roof sheathing and the insulation. It is important also for the insulation to cover the top plate. Use baffles if necessary to keep the insulation from blocking the passage of air.

Insulation near recessed fixtures should be kept at least 3 inches from the fixtures in accordance with the recommendations of the current National Electrical Code. (This warning does not apply to Type IC fixtures or fluorescent fixtures with thermally protected ballasts.)

Cathedral Ceilings

BIGBATT_{tm} cathedral insulation should be stapled or held in place by pressure against the sides of the rafters. An air space between the insulation and roof sheathing, ventilated at ridge and soffit, is desirable in cathedral ceilings. If **BIGBATT_{tm}** Unfaced material is used, a separate vapor retarder should be applied facing the living area after the insulation has been installed.

Attic Rooms

Attics that are used as living spaces should be insulated.

Walls

BIGBATT_{tm} insulation should fit snugly to the framing on all sides. Even the smallest openings between framing members should be insulated. Recommendations applicable to insulating walls are discussed in Installation Techniques.

Floors

BIGBATT_{tm} insulation is installed between floor joists, and secured as follows:

Wire Fasteners

The easiest and most effective method of holding **BIGBATT_{tm}** insulation in place is to use straight, rigid wire fasteners, (preferably galvanized,) with pointed ends. The fasteners are made for joist spacings of 12, 16, 18, 20 and 24 inches and may be used against wood, metal, or concrete. The fasteners, which are slightly longer than the joist spacing, are placed by hand between the joists and bowed upwards into the insulation, causing the insulation to press gently against the subflooring. Spacing of fasteners is as required to prevent sagging of the insulation, normally 12" to 24" apart and not more than 6" from ends of the batts.

Mesh or Screen

Galvanized wire, nylon mesh or galvanized screen (chicken wire is also suitable) will hold the insulation in place. After the **BIGBATT_{tm}** has been pushed into place the mesh or screen is stapled or nailed to the joist faces.

Wire Lacing

Galvanized, malleable wire may be laced around nails protruding from the faces of the joists or the wire may be stapled to the joists. Wire and nail spacings are as required to prevent sagging of the insulation.

Note: For homes where the underside of the floor is exposed and readily accessible, such as homes on pilings or certain garage areas, the insulation should be covered with a suitable exterior material to protect it from high winds and physical abuse. Header and band joists should also be insulated.

When insulating floors where the insulation is less than

the thickness of the joists and the method of installation does not hold the insulation up against the subflooring, it will be necessary to insulate the headers or band joists at outside walls. This is because there will be an air space between the top of the insulation and the subfloor that will allow heat to be lost at outside walls. Therefore, it is recommended that the insulation be pushed up to the subfloor. If insulating over an unheated area, the vapor retarder should be in substantial contact with the subfloor.

Where the header is parallel with the floor joists it may be necessary to adhere insulation to the header or fill the joist area with insulation.

Basement Walls

Prior to insulating basement walls with any of the following methods, insulate the band joists separately.

Masonry or Concrete with Framing

When **BIGBATT_{tm}** insulation of higher R-values (R-11, R-13, R-15, R-19 or R-21) is to be installed on a masonry wall, a separate frame wall may be built of 2 x 4 or 2 x 6 studs.

The top plate is nailed to the underside of the joists or to blocking between joists.

Attachment of the insulation to the framing is the same as for sidewall insulation. Here, too, **BIGBATT_{tm}** faced or unfaced insulation may be used, with the vapor retarder applied the same way. Kraft vapor retarder facings must be covered with the interior finish material (paneling, 1/2" gypsum board, or the equivalent). Only **BIGBATT_{tm}** FSK low flame-spread vapor retarder facing can be left exposed.

All Weather Wood Foundation

BIGBATT_{tm} insulation is installed in the same way as in framed walls elsewhere in the building.

Crawl Space Walls

Masonry Walls

Furring members to hold the insulation in place are unnecessary. If vapor-retarder-faced **BIGBATT_{tm}** insulation is required, use only special FSK or Foil low flame-spread vapor retarders recommended for exposed applications.

The vapor retarder should, in most cases, face toward the crawl space, the warm-in-winter side.

Two methods of installing **BIGBATT_{tm}** insulation are recommended.

First, after insulating the band joist separately, nail the **BIGBATT_{tm}** to the sill plate with 1/2 x 1-1/2 nailer strips. The insulation should be snug against the piece next to it. The insulation should hang down to the bottom of the wall and extend out onto the ground cover (usually polyethylene) about 2 feet. Where the insulation bends onto the ground cover, the insulation may be held in place by laying small rocks or bricks on the **BIGBATT_{tm}**.

An alternate method of insulating masonry walls is to run the **BIGBATT_{tm}** up the wall, past the sill plate to the subfloor. Again, insulate the band joist separately.

All-Weather Wood Foundation

Insulate the band joist separately. Where the crawl space floor is concrete, install the **BIGBATT_{tm}** as recommended for wood-frame walls. If the crawl space floor is soil, apply the insulation and the ground cover.

Insulating Around Obstructions

General

It is difficult to describe every situation that will be encountered by the insulation installer. In general, however, the installer should be guided by the need to reduce heat flow around or through obstructions and to protect mechanical systems.

Electrical

Junction boxes for wall switches and convenience outlets at outside walls should be insulated between the rear of the box and the sheathing. Place the **BIGBATT_{tm}** behind the junction box and if necessary, cut insulation to fit snugly around it.

Where electrical wiring passes through a stud cavity and is located close to the inside wall surface, the

BIGBATT_{tm} should be pressed behind the wiring. When the wiring is in the center of the cavity, either a shallow cut in the insulation may be used to allow the wiring to pass through the insulation or it may be split lengthwise and the wiring sandwiched within.

The National Electrical Code contains the following recessed lighting fixture requirement: "Thermal insulation shall not be installed within 3 inches of the recessed fixture enclosure, wiring compartment or ballast and shall not be so installed above the fixture as to entrap heat and prevent the free circulation of air unless the fixture is otherwise approved for the purpose." The recommendations of the NEC should always be followed.

Plumbing

BIGBATT_{tm} Insulation should be placed between the piping in exterior walls and the exterior wall sheathing. Sidewalls where plumbing fixtures are to be placed must be insulated before the fixtures are installed. To guard against pipes freezing, the **BIGBATT_{tm}** insulation should never be placed between piping and the warm side of the wall.

Openings Through Building Sections

Where pipes, wiring, or ductwork penetrate a building section, **BIGBATT_{tm}** insulation should be packed tightly into the openings to reduce air infiltration.

Vapor Retarders

What is a Vapor Retarder?

A vapor retarder is defined by ASTM C 755 as a material that adequately retards the transmission of water vapor under specified conditions.

The permeance of an adequate retarder for residential construction will not exceed 1 perm.

(The perm is a measure of the flow of water vapor through a material.)

What Does a Vapor Retarder Do?

Occupants of buildings, certain appliances, and plumbing equipment generate moisture that is carried in the air as vapor. As moisture vapor moves from a warm interior through construction materials to a cooler

surface, the moisture may condense as water, which could damage the building. It is for this reason that vapor retarders, which retard the flow of moisture through construction materials, are installed in buildings. By locating vapor retarders on the side of the insulation toward the warm living area, moisture vapor is kept away from cold surfaces on which it might condense to liquid water.

Vapor-Retarder-Faced Insulation

The vapor-retarder facing should usually be installed toward the warm-in-winter side of the construction. This means that in ceilings the vapor retarder faces down, in walls it faces the inside, and in floors over unheated spaces it faces up. In hot, humid (Gulf Coast) climates, vapor retarders can be installed facing the outside.

Check local practices and/or building codes.

When Is a Vapor Retarder Required?

Good construction practice calls for installing a vapor retarder in walls of all new buildings. Local building practice should be followed with regard to the need for vapor retarders in ceilings.

Cautions

Always follow these rules when working with vapor-retarder-faced **BIGBATT_{tm}** insulation:

- Kraft vapor retarder is combustible and should not be left exposed. For this reason it must always be covered. (Only special FSK low flame-spread vapor-retarder facing can be left exposed.) Included are such spaces as garages, storage rooms, utility rooms, and laundries. Covering Kraft vapor retarders is a requirement of the model codes issued by Building Officials and Code Administrators International, the International Conference of Building Officials, and the Southern Building Code Congress International.

To comply with the codes, interior finish materials must have flame spread ratings of 200 or less.

Gypsum board is commonly used.

- Batts may be installed one on top of the other in ceilings where there is adequate space.

In most cases, only the bottom layer should have a vapor retarder, which should face down toward the space that is warm in winter. Additional layers normally should

be unfaced. If unfaced insulation is not available, use the faced type but remove the facing completely before installation.

- Repair damaged vapor retarders. Rips or tears in the vapor retarder facing may be repaired by covering the damaged area with scrap vapor retarder material and taping it in place or, in the case of small rips, by using duct tape or polyvinyl tape.
- Care should be taken not to staple into electrical wiring when installing faced insulation or separate vapor retarders.

Other Vapor Retarder Materials

Separate vapor retarders are used in some constructions. When required, a separate vapor retarder should be installed at the warm-in-winter side of the framing. (In hot, humid climates, vapor retarders are sometimes omitted or installed outside the insulation.) Four-mil or thicker polyethylene sheeting, available in rolls, is placed horizontally and stapled to the face of the framing. If more than one sheet of polyethylene is required, overlap the sheets across two framing members. Foil-backed gypsum board is also an effective vapor retarder.

Clothing and Equipment

Clothing

When installing fiber glass insulation:

- Wear a long sleeved shirt loose at the neck and wrists, long pants, gloves and cap.
- Wear eye protection (safety goggles, safety glasses or a face shield or a combination of these, as appropriate).
- Wear a NIOSH-certified disposable dust respirator (N95 or greater.) An appropriate training and fit testing program must be incorporated into a respiratory protection program.

For more detailed information on recommended work practices, contact NAIMA or the individual manufacturer.

Equipment

For cutting insulation the best knife has been found to be one with a serrated blade. Blades should be replaced periodically as they tend to dull during use. Other equipment may be preferred by the installer.

Thermal Recommendations

When building a new home, consumers and builders alike should make sure their homes are insulated to save energy and to provide more comfortable living. The International Code Council (ICC) publishes the International Energy Conservation Code (IECC) which recommends specific thermal performance requirements. The R-values recommended by DOE exceed those required by most building codes.

BIGBATT[™] Faced and Unfaced Sizes

R-VALUE THICKNESS SIZES

Contact FiberTEK for the availability of non-standard sizes.

| | | |
|-------|--------|---|
| R-11 | 3.50" | 15"X 93", 15"x 105", 16"X 96", 19"X 48", 19"X 93", 23"x 93", 24"x 48", 24"x 96" |
| R-13 | 3.50" | 15"X 93", 15"x 105", 16"X 96", 19"X 48", 19"X 93", 23"x 93", 24"x 48", 24"x 96" |
| R-15 | 3.50" | 15"X 93", 15"x 105", 16"X 96", 23"x 93", 24"x 48", 24"x 96" |
| R-19 | 6.25" | 15"X 48", 15"X 93", 15"x 105", 16"X 96", 19"X 48", 19"X 93", 23"x 93", 24"x 48", 24"x 96" |
| R-21 | 5.50" | 15"X 93", 15"x 105", 16"X 96", 23"x 93", 24"x 48", 24"x 96" |
| R-22 | 6.50" | 15"X 93", 15"x 105", 16"X 96", 19"X 48", 19"X 93", 23"x 93", 24"x 48", 24"x 96" |
| R-25 | 8.00" | 15"X 93", 15"x 105", 16"X 96", 19"X 48", 19"X 93", 23"x 93", 24"x 48", 24"x 96" |
| R-30 | 9.50" | 16"X 48", 19"X 48", 24"x 48" |
| R-30C | 8.25" | 16"X 48", 24"x 48" (Cathedral ceiling batts) |
| R-38 | 12.00" | 16"X 48", 24"x 48" |
| R-38C | 10.25" | 16"X 48", 24"x 48" (Cathedral ceiling batts) |

QWIKBATT[™] Tableless Sizes

R-VALUE THICKNESS SIZES

Contact FiberTEK for the availability of non-standard sizes.

| | | |
|------|-------|---------------------------|
| R-13 | 3.50" | 15.25"X 93", 15.25"x 105" |
| R-15 | 3.50" | 15.25"X 93", 15.25"x 105" |
| R-19 | 6.25" | 15.25"X 93", 15.25"x 105" |
| R-21 | 5.50" | 15.25"X 93", 15.25"x 105" |