Can I Depend On R-Values When Comparing Insulations?

Yes - and No.

R-values tell only part of the story. Unfortunately, they don't tell you how well the insulation will perform in your home. R-value is a laboratory measurement that measures only one heat transfer mechanism (conduction) and does not effectively measure all 3 methods of heat transfer that occur in your home: convection, conduction, and radiation.

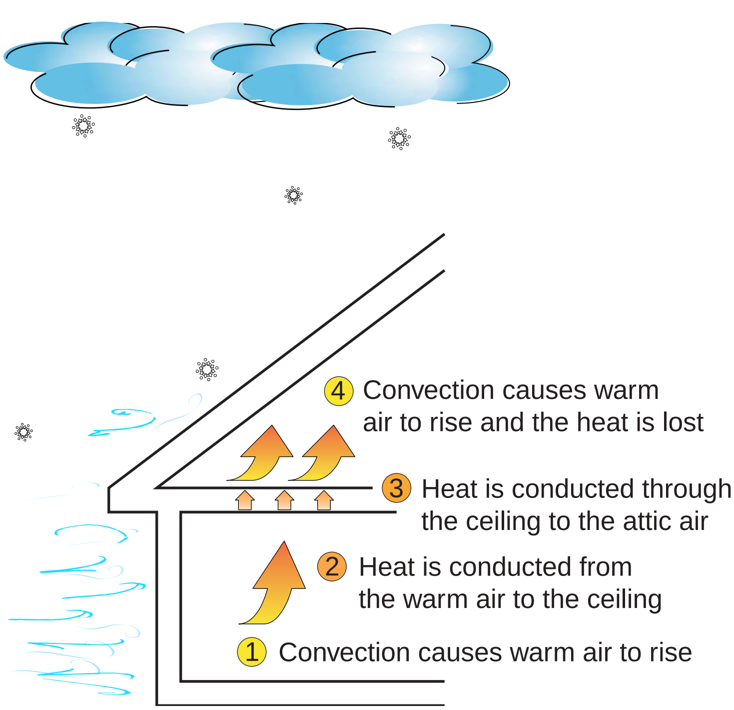
"...conduction, radiation, and convection are the primary mechanisms [of heat transfer]."

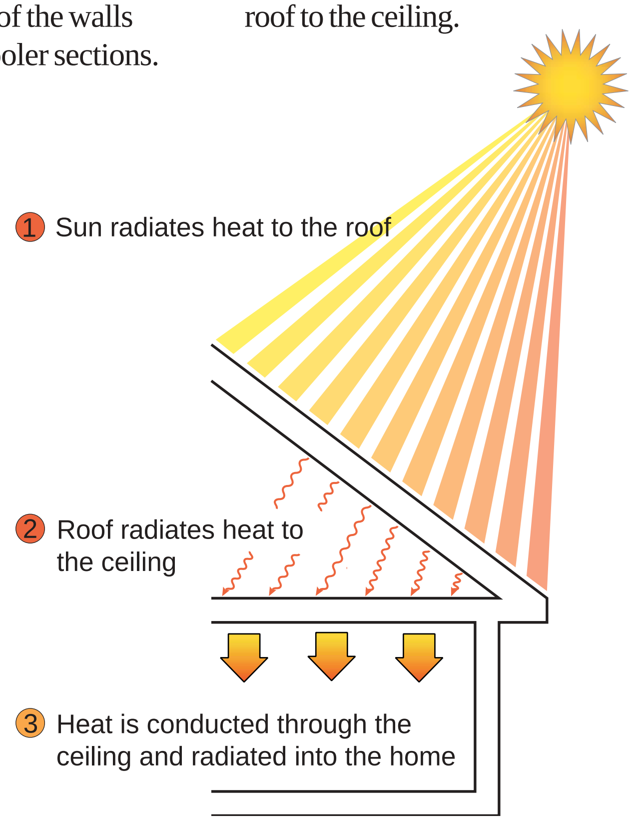
-U.S. Department of Energy

Problem #1: We can not base our choice of insulation on R-value alone.

Your Home Loses and Gains Heat in 3 Ways

	Convection	Conduction	Radiation
Definition:	The transfer of heat by moving air.	The transfer of heat through a solid material.	The transfer of heat in the form of electromagnetic waves.
Example:	Warm air rises and transfers heat to the ceiling	Heat is transferred from warmer sections of the walls and ceilings to cooler sections.	Heat is transferred from the roof to the ceiling.





R-value is a narrowly focused laboratory measurement. For a comfortable, energy efficient home, insist on insulation that effectively controls all 3 methods of heat transfer: convection, conduction, and radiation.

Will My Choice of Insulation Really Effect My Monthly Heating & Cooling Bills?

Yes!

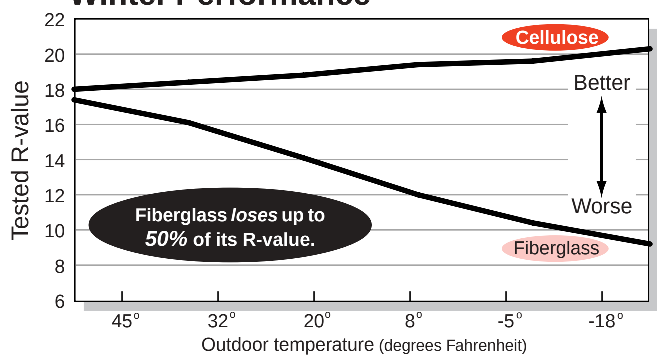
Different insulations are made from fundamentally different materials. Tests at Oak Ridge and Brookhaven National Laboratories and the University of Illinois reveal that insulations with the same laboratory R-values ***do not*** perform equally in real homes. Researchers found that the effective R-value of blown fiberglass plunges during cold weather, while the effective R-value of cellulose actually increases. The researchers also discovered that summer temperatures offer no relief for fiberglass, since its effective R-value withers then, too.

Utility bills were 32% lower in the cellulose insulated building. **-Leominster Housing Authority**

Problem #2: Which insulation will provide the best performance and value in my home?

Applegate cellulose helps keep your home *warmer* in the winter,

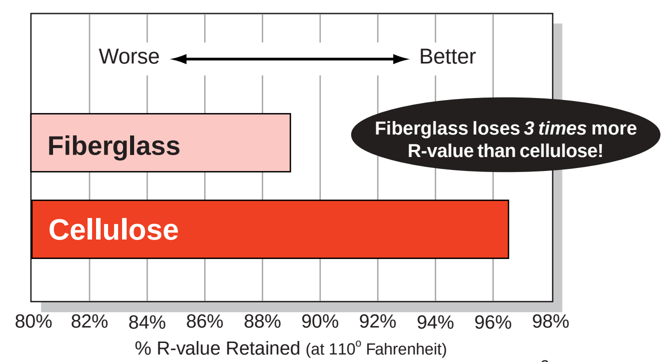
Winter Performance



Source: Oak Ridge National Laboratory[1]

cooler in the summer,

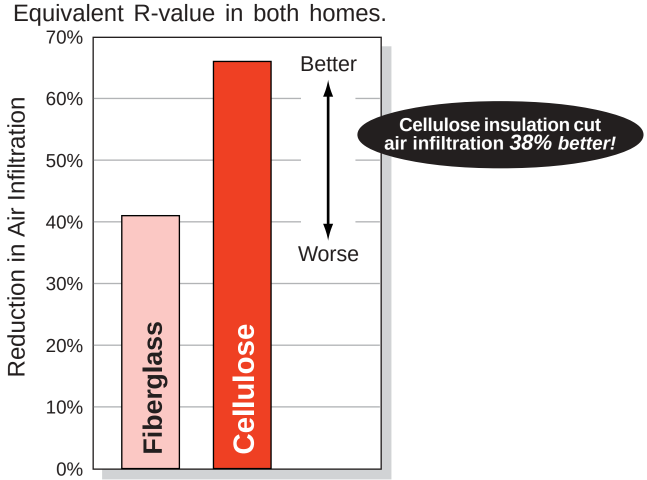
Summer Performance



Source: Brookhaven National Laboratory[2]

blocks air infiltration,

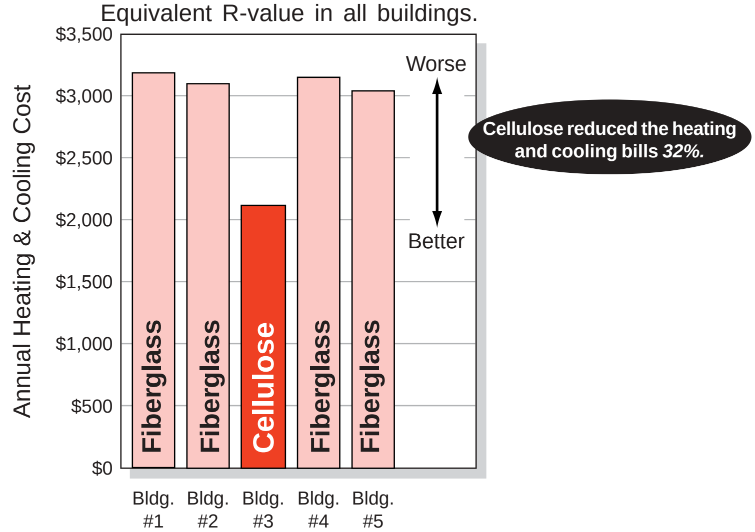
Equivalent R-value in both homes.



Source: University of Colorado School of Architecture[3]

and saves you money!

Equivalent R-value in all buildings.



Source: The Leominster Housing Authority[4]

Test after test demonstrates that cellulose insulation significantly outperforms fiberglass.

Properly Insulating Saves You Money

Poor insulation allows air to escape, drives up utility bills and costs you more money.

28% of heating loss in one-story homes can be eliminated with proper attic insulation.

Your utility bills could be going through the roof if your home is not properly insulated!

Poor insulation allows your heating and cooling to escape through your roof, walls, and floor, forcing these systems to work overtime to replace the lost air. This drives up your energy usage and leads to higher utility bills and more money lost.

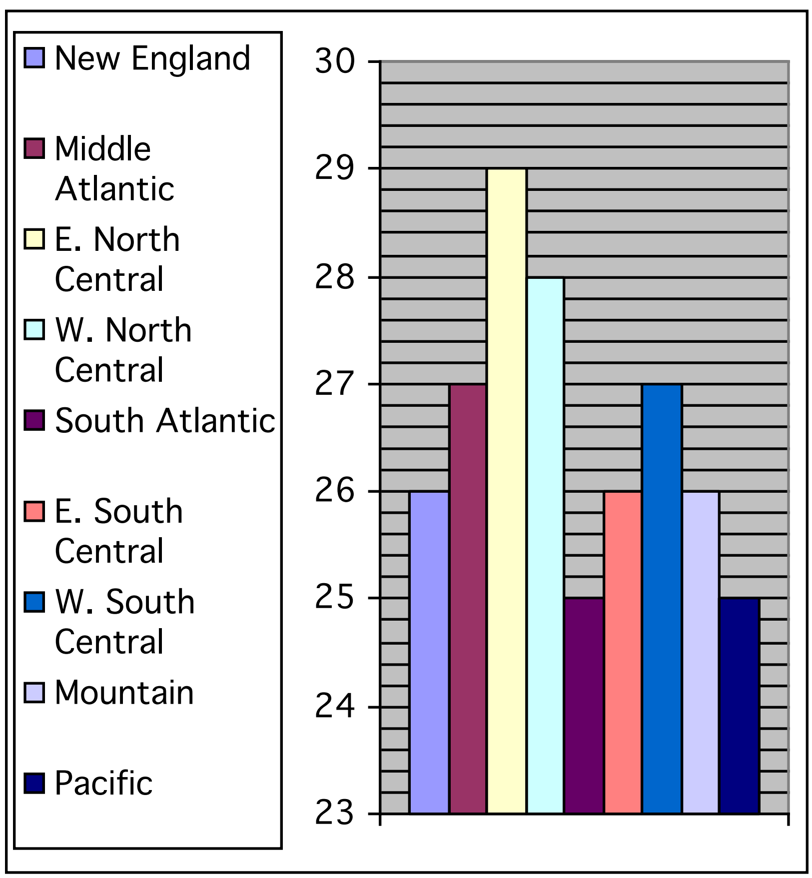
Improperly insulated attics are a major source of heat loss.

In fact, 28% of the heating loss in one story homes and 17% of the heating loss in two story homes can be eliminated with proper attic insulation.

Poor Insulation is a Common Problem

Improper insulation is a common problem across the country.

This chart shows the average amount of attic insulation found in homes across the country.



Amount of Insulation and R-Value

Don't take our word for it:

R-38 is the standard attic insulation in most parts of the country.

Depending on the climate in your area, more insulation may be required.

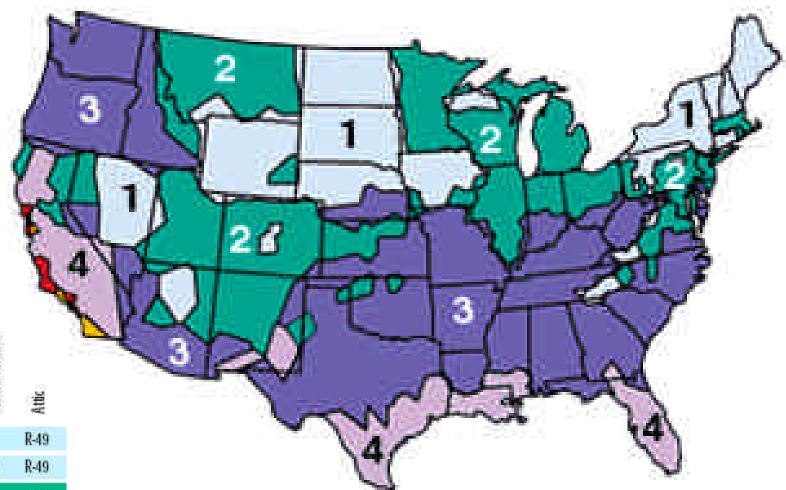
You can refer to the map to determine the most recent guidelines for homes in your part of the country.

Source: US Department of Energy

How is insulation effectiveness measured?

One way is by the R-value, the measure of resistance to heat flow. As the R-value increases, so does the insulation effectiveness. You must have the appropriate amount of insulating material to receive the effective amount of insulation.

Recommended R-Values



Zone	Gas	Heat pump	Fuel oil	Electric furnace	Attic
1	✔	✔	✔		R-49
1				✔	R-49
2	✔	✔	✔		R-49
2				✔	R-49
3	✔	✔	✔	✔	R-49
4	✔	✔	✔		R-38
4				✔	R-49

What is your R-Value?

Type of Insulation	Number of Inches	R-value per inch	Existing R-value
Fiberglass batts		3.2	
Fiberglass loose-fill		2.5	
Cellulose loose-fill		3.5	
Rockwool		2.8	
Polystyrene beads		2.9	
Formaldehyde foam		4.5	
Insulation board		3.3	

Internal Revenue Service
United States Department of the Treasury

Treasury and IRS Provide Guidance for energy Credits for Homeowners

IR-2006-34, Feb. 21, 2006

Washington — The Treasury Department and the IRS today have issued guidance (Notice 2006-26) on the certification that homeowners may rely on when they claim credits for purchases that make their homes more efficient.

During 2006, individuals can make energy-conscious purchases that will provide tax benefits when filling out their tax returns next year. The credit will also be available for purchases in 2007. Manufacturers offering energy efficient items such as insulation or storm windows can assure their customers that their energy efficient items will qualify for the tax credit if certain energy efficiency requirements are met.

A recent tax law change provides a tax credit to improve the energy efficiency of existing homes. The law provides a 10 percent credit for buying qualified energy efficiency improvements. To qualify, a component must meet or exceed the criteria established by the 2000 International Energy Conservation Code (including supplements) and must be installed in the taxpayer's main home in the United States.

The following items are eligible:

- Insulation systems that reduce heat loss/gain
- Exterior windows (including skylights)
- Exterior doors
- Metal roofs (meeting applicable Energy Star requirements).

In addition, the law provides a credit for costs relating to residential energy property expenses. To qualify as residential energy property, the property must meet certification requirements prescribed by the Secretary of the Treasury and must be installed in the taxpayer's main home in the United States.

The following items are eligible:

- $50 for each advanced main air circulating fan
- $150 for each qualified natural gas, propane, or oil furnace or hot water boiler
- $300 for each item of qualified energy efficient property.

The maximum credit for all taxable years is $500 – no more than $200 of the credit can be attributable to expenses for windows.

Additionally, the new law makes a credit available to those who add qualified solar panels, solar water heating equipment, or a fuel cell power plant to their homes in the United States. In general, a qualified fuel cell power plant converts a fuel into electricity using electrochemical means, has an electricity–only generation efficiency of more than 30 percent and generates at least 0.5 kilowatts of electricity.

Taxpayers are allowed one credit equal to 30 percent of the qualified investment in a solar panel up to a maximum credit of $2,000, and another equivalent credit for investing in a solar water heating system. No part of either system can be used to heat a pool or hot tub.

Additionally, taxpayers are also allowed a 30 percent tax credit for the purchase of qualified fuel cell power plants. The credit may not exceed $500 for each .5 kilowatt of capacity.

These items must be placed in service after Dec. 31, 2005 and before Jan. 1, 2008.

Source: http://www.irs.gov/newsroom/article/0,,id=154657,00.html

PEST CONTROL INSULATION SYSTEMS
P.O. Box 25
Homer, GA 30547 Tel: 706-677-4050
Fax: 706-677-4025
info@TAPinsulation.com

www.TAPinsulation.com

CERTIFICATE OF TAX CREDIT ELIGIBILITY

T·A·P **Thermal, Acoustical, Pest Control Cellulose Insulation is a Qualified Building Envelope Component as defined by Paragraph 25C of the Internal Revenue Code per the Energy Policy Act of 2005.**

"Under penalties of perjury, I declare that I have examined this certification statement, and to the best of my knowledge and belief, the facts are true, correct, and complete."

William N. Turk
William N. Turk, President
Pest Control Insulation Systems

What's in the Attic?

THERMAL • ACOUSTICAL • PEST CONTROL

T•A•P™

PEST CONTROL INSULATION

www.TAPinsulation.com

EPA REG. NO. 72787-1

T•A•P is the result of the combination of a pesticide with the best insulation for a patented product that:

- Controls Pests
- Saves Energy & Money
- Absorbs Sound
- Contains All-Natural Ingredients
- Is Environmentally Friendly
- Delivers Fire Resistance
- Is Permanent
- Provides a Perfect Fit

T•A•P Kills Bugs

Insects cannot build up a tolerance to T•A•P, as they can with organic biological treatments, and you never need to re-treat the insulation. T•A•P controls ants, cockroaches, silverfish, termites, and other pests listed on the EPA label.

EPA-Registered Pesticide Containing Boric Acid

Boric Acid, the active ingredient in T•A•P, is found in common household products such as saline eyewash solution, detergents, and the food we eat. Although deadly to many insects, T•A•P is acceptable for use around pets and people.

Save Money and Decrease Energy Bills

T•A•P helps keep homeowners cool in the summer and warm in the winter. Comfort. Conservation. *Comfortable Conservation!*

Fire Safety

T•A•P, with its fire-retardant characteristics, limits the spread of fire with both flame and smolder combustion resistance.

The Quiet Life

T•A•P reduces annoying outside noise and helps create a peaceful haven of quality and solitude.

T•A•P is *Green*!

Well, not literally, but T•A•P is permanent, made from all-natural ingredients and recycled newsprint, thus while you're controlling pests and saving energy, you're conserving landfill space.

A Perfect Fit

T•A•P forms a perfect fit in your attic, leaving no gaps, covering nooks and crannies, capping the entire attic floor. T•A•P helps block heat transfer from convection and radiation, as well as conduction.

SPECIFICATIONS

PEST CONTROL INSULATION SYSTEMS
PO Box 25
Homer, GA 30547
TOLL FREE 866-BUG-PCIS
www.TAPinsulation.com

1. Scope
This specification provides information relevant to the installation of T•A•P Pest Control Insulation in attics, walls and floors using pneumatic equipment. T•A•P Pest Control Insulation delivers superior R-value per inch, exceptional resistance to air infiltration and superb sound-deadening qualities.

2. Components
T•A•P Pest Control Insulation contains more than 85% recycled, natural cellulose fiber. A proprietary two-stage process injects dry and liquid fire retardants that penetrate and strengthen the fibers while providing permanent flame resistance. When installed properly and under normal conditions of use, these additives are nontoxic to humans, will not adversely affect other building components, and actually help create an environment that is inhospitable to the labeled insects.

3. Purpose

3.1 Thermal Insulation
T•A•P Pest Control Insulation helps buildings stay warmer in the winter and cooler in the summer by effectively controlling all three methods of heat transfer: convective, conductive, and radiant. Buildings are more comfortable and less expensive to operate and maintain. Research at universities and national laboratories has proven that cellulose can provide up to 50% better performance than fiberglass.

3.2 Acoustical Insulation
T•A•P Pest Control Insulation provides superior sound attenuation, in large part, because it is blown or sprayed in. This provides a custom fit that eliminates the acoustical shortcuts that are created by batt insulations: gaps and voids in odd shaped cavities and around obstacles such as plumbing, air ducts, and wiring.

3.3 Pest Control Insulation
T•A•P Thermal, Acoustical, and Pest Control Insulation is a ready-to-use insect control insulation. The product is tested to help control the listed insects and is intended to prevent their infestations in building voids (attic, wall, between-floors, crawlspace) where the product is applied. Its effect begins only after insect contact with the product. **Controls: Cockroaches, Termites (including Formosan Termites), Ants, Silverfish, Earwigs, Crickets, Sowbugs, Darkling Beetles, Millipedes, Centipedes, and Booklice.** Not recommended as sole protection against termites. Use of this product does not substitute for pre- and/or post-construction mechanical alteration, soil treatment or foundation treatment. For active termite infestations, get a professional inspection.

4. National Standards
Cellulose insulation sold in the US must conform to CPSC Standards 16 CFR Parts 1209 & 1404. T•A•P Pest Control Insulation also conforms to the requirements of ASTM Standard C-739- 00. T•A•P Pest Control Insulation is tested only by nationally certified, NAVLAP-approved laboratories.

4.1 Thermal Resistance
Thermal resistance calculated using ASTM C-518 is R-3.7 per inch.

4.2 Non-Corrosive
T•A•P Pest Control Insulation is tested and certified to be non-corrosive in accordance with ASTM Standard C-739- 00. The test regimen includes aluminum, copper and steel.

4.3 Building Codes
T•A•P Pest Control Insulation, when properly installed, meets the following building code requirements for thermal insulating materials: BOCA, CABO, ICBO, ICC, SBCCI, & the Model Energy Code.

4.4 Fire Safety
T•A•P Pest Control Insulation meets or exceeds all necessary fire safety requirements conducted in accordance with ASTM standards:
Critical Radiant Flux: >0.12 w/cm 2
Smoldering Combustion: <15%
Flame Spread (ASTM E-84): 15
Smoke Developed (ASTM E-84): 5
Fuel Contribution (ASTM E-84): 0

4.5 Density
As tested by federally required methods, the maximum anticipated density of T•A•P Pest Control Insulation after long-term settling of dry application is determined by ASTM C-739-00 to be 1.45 lb/ft 3.

4.6 Moisture Absorption
T•A•P Pest Control Insulation complies with ASTM Standards that require less than 15% weight gain under test conditions. Normal relative humidity variations do not adversely affect the insulation.

4.7 Health and Indoor Air Quality
T•A•P Pest Control Insulation does not contain fiberglass, formaldehyde, or other materials associated with increased health concerns.
OSHA cancer warning? No
Contains glass fibers? No
Contains formaldehyde? No

4.8 Other Properties
T•A•P Insulation meets or exceeds ASTM C-739-00 tests for odor emission and fungi resistance.

4.9 Sound Control
T•A•P Pest Control Insulation is an excellent choice for reducing sound transmission through walls, ceilings, and floors. The following Sound Transmission Class (STC) ratings demonstrate its effectiveness in attenuating noise. The higher the STC number, the greater the reduction in sound.
Cellulose insulated wall: 44 STC
Fiberglass insulated wall: 39 STC
Uninsulated wall: 35 STC

US Patent No. 6,578,782 EPA REG. NO. 72787-1 PCISv4917 (repl 3C31)

[Cellulose wall rating from the Cellulose Insulation Mfrs. Assoc.; fiberglass and uninsulated wall STC ratings from Owens-Corning, “Noise Control Design Guide.”]

T·A·P™ PEST CONTROL INSULATION

THERMAL · ACOUSTICAL · PEST CONTROL

www.TAPinsulation.com

T•A•P STABILIZED

Thermal, Acoustical, and Pest Control Insulation

3 - insulations - in - 1 with DustTrapper™
FOR USE IN NEW CONSTRUCTION
AND RETROFIT APPLICATIONS
· ATTICS · FLOORS · WALLS · CRAWLSPACES ·
· OVERLAY FIBER GLASS OR OTHER INSULATIONS ·

Contains No Asbestos, Glass Fibers or Formaldehyde
MADE FROM NATURAL WOOD FIBER

ACTIVE INGREDIENT:

Orthoboric acid	11.1%
OTHER INGREDIENTS	88.9%
TOTAL	100.0%

FOR USE IN NEW CONSTRUCTION AND RETROFIT APPLICATIONS

- Helps protect your home environment from annoying insects
- Contains 87% *recycled natural fiber*
- The *most effective insulator* you can put in your walls and attic
- Helps keep you *warm* in winter & *cool* in summer
- Permanently *guards against flame spread*
- Highly resistant to *air infiltration*
- Helps *deaden sound* as an acoustical barrier
- This *clean-blowing* insulation contains *DustTrapper™*

- HOMES
- APARTMENTS & CONDOMINIUMS
- OFFICES & INDUSTRIAL BUILDINGS
- HOTELS AND MOTELS
- HOSPITALS & NURSING HOMES
- RESTAURANTS
- SCHOOLS

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF ON SKIN:
Take off contaminated clothing.
Rinse skin immediately with plenty of water for 15-20 minutes.
Call a poison control center or doctor for treatment advice.

IF IN EYES:
Hold eye open and rinse slowly and gently with water for 15-20 minutes.
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
Call a poison control center or doctor for treatment advice.

PRECAUTIONARY STATEMENTS:
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

DURING INSTALLATION WEAR A PROTECTIVE RESPIRATOR TO PREVENT INHALATION. TO AVOID EXCESSIVE EYE AND SKIN CONTACT, WEAR PROTECTIVE GLOVES AND DUST GOGGLES.

T•A•P™ *Thermal, Acoustical, and Pest Control Insulation* is a ready-to-use insect control insulation. This product is toxic to listed insects and is intended to prevent their infestations in those building voids (attic, wall, between-floors, crawlspace) where the product is applied. Its toxic effect begins only after insect contact with the product.

KILLS

Cockroaches, Termites (including Formosan Termites), Ants, Silverfish, Earwigs, Crickets, Sowbugs, Darkling Beetles, Millipedes, Centipedes, and Booklice

DIRECTIONS FOR USE

It is a violation of Federal law to apply this product in a manner inconsistent with its labeling. **"R"** means resistance to heat flow. The higher the **R-value** the greater the insulating power. To get the marked **R-value**, it is essential that this insulation be installed properly. *This insulation is not intended for the Do-It-Yourselfer.* Professional insulation applicators installing this material should be familiar with and carefully follow installation instructions from the manufacturer. Instructions do not come with this package.

FOR NEW CONSTRUCTION BOTH ON-SITE AND FACTORY-BUILT, AND RETROFIT APPLICATIONS: INSTALL **T•A•P™** IN ATTICS, WALLS AND CRAWLSPACES, AND BETWEEN FLOORS.

COCKROACHES, TERMITES (INCLUDING FORMOSAN TERMITES), ANTS, SILVERFISH, EARWIGS, CRICKETS, SOWBUGS, DARKLING BEETLES, MILLIPEDES, CENTIPEDES, AND BOOKLICE: This insulation contains material toxic to these insects and is intended to prevent new infestations in walls and attics where the product is applied. Control of insects is limited to contact with insulation.

Not recommended as sole protection against termites. Use of this product does not substitute for pre- and/or post-construction mechanical alteration, soil treatment or foundation treatment. For active termite infestations, get a professional inspection.

TO HELP AVOID FIRE: Keep insulation at least three inches away from the sides of recessed light fixtures. Do not place insulation over such fixtures so as to entrap heat. Also keep insulation away from exhaust flues of furnaces, water heaters, space heaters or other heat-producing devices. To be sure that insulation is kept away from light fixtures and flues, use a barrier to permanently maintain clearance around these items. Do not install where temperatures may exceed 180ºF. Check with local building or fire officials for guidance on installation and barrier requirements.

REQUEST TO INSTALLER: Remove bag label and give it to consumer and/or affix in building at completion of job.

STORAGE AND DISPOSAL
Do not contaminate water, food, or feed by storage or disposal.
Wastes resulting from the use of this product, including bag, may be disposed of on site or at an approved waste disposal facility.

EPA REG. NO. 72787-1 **EPA EST. NO. Various**

PEST CONTROL INSULATION SYSTEMS
PO BOX 25
HOMER, GA 30547
866-BUG-PCIS

PCIS 4917

Material Safety Data Sheet

Pest Control Insulation Systems
PO Box 25
Homer, GA 30547
(866) BUG-PCIS
www.TAPinsulation.com

Product Name: T•A•P Pest Control Insulation
EPA Registration No.: 72787-1 Cellulose Technologies Group, Inc.

Product Composition: Active pesticidal component: boric acid. (CAS No. 10043-35-3.) Does not contain any hazardous fiberglass, rockwool, or formaldehyde.

Health Hazard Information

Ingestion: If ingested, rinse mouth and drink large amounts of water.
Inhalation: Dust inhalation may irritate nose or throat.
Skin Contact: Does not normally itch or irritate skin.
Eye Contact: Dust may cause eye irritation upon eye contact.
Carcinogenicity: No.

Physical Information

Appearance & Odor: Milled paper. Slight damp paper odor, if any.
Permissible concentrations: Particulates not otherwise regulated: 15 mg/m^3. OSHA PEL total dust: 15 mg/m^3; respirable dust: 5 mg/m^3. ACGIH TLV total dust: 10 mg/m^3.

Handling Information

In Case of Spill: Shovel or sweep up and place in container for disposal.

Respiratory & Eye Information

Where dusty conditions exist: Use a NIOSH approved dustmask or respirator. If dust is annoying, use dust goggles. Follow good personal hygeine and housekeeping practices.

Waste Disposal Information

Dispose of in accordance with all applicable federal, state and local environmental regulations.

Fire & Explosion Information

Extinguishing Media: Water or any standard agent may be used.
Special Fire Fighting Procedures: Use standard procedures as dictated by the given situation. Material contains fire retardant and has a critical radiant flux greater than or equal to .12 w/cm^2 and smoldering combustion less than or equal to 15%, per ASTM C-739. Full protective clothing and self-contained breathing apparatus should be used by firefighters.
Unusual Explosion Hazards: None.
Unusual Fire Hazards: None. However, material should not be applied where temperatures may exceed 180° F. (i.e. Make sure duct work is sealed and maintain clearance around recessed lights, exhaust flues of furnaces and other heat producing devices, per National Electrical Code.)

Additional Information

This MSDS applies only to the identified product as of the effective date of this MSDS and the contents may not be valid or useful if the product is altered or combined with other products, or used in an unsafe manner or for other than its intended purpose.

The Manufacturer has endeavored to disclose accurate and current information, as of the effective date of this MSDS. However, the Manufacturer disclaims any warranties, express or implied, representations or guarantees of any kind, regarding accuracy of this information or the properties, fitness, or safety of the product identified herein. The user shall have the sole responsibility for the proper use of the information and for the establishment of proper conditions for, and the safe use of, the product identified herein.

Disclaimer: This MSDS is offered for your information and consideration only, and is not intended for any other person or purpose. It is your responsibility to conduct such investigations as you deem appropriate under the circumstances. Although the identified product is generally acceptable in homes, and to the best knowledge of the Manufacturer, there are no known serious health hazards related to its normal and intended use, except as may be disclosed, this product (as a whole) has not been tested by the Manufacturer for all potential health hazards or effects. There may be health hazards related to its components.

T•A•P™

Thermal Acoustical Pest Control Insulation

FULL WARRANTY

Pest Control Insulation Systems warrants that its T•A•P Pest Control Cellulose Insulation is free from material and manufacturing defects and meets current Consumer Product Safety Commission requirements as well as other applicable requirements of the US Federal Government for pneumatically-blown or hand-applied cellulose insulation in effect at the time of manufacturing. This warranty commences on the date of purchase and continues for the life of the premises in which it is installed.

This warranty does not apply unless the insulation has been installed by the professional identified below, in accordance with the instructions included with or specified on the package containing the insulation. This warranty will also not apply if other brands of insulation are installed with the T•A•P Insulation.

In the event of a material or manufacturing defect, PCIS will replace the defective insulation within a reasonable time at no charge to you; or at your option, refund the purchase price of the defective insulation.

IN NO EVENT SHALL PCIS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

In order to make a warranty claim, please contact PCIS at the address noted below, or, if applicable, the professional noted below.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

THE EPA LABEL ON T•A•P PEST CONTROL INSULATION CONTAINS THE FOLLOWING INFORMATION:
T•A•P THERMAL, ACOUSTICAL, AND PEST CONTROL INSULATION IS A READY-TO-USE INSECT CONTROL INSULATION. THIS PRODUCT IS TOXIC TO LISTED INSECTS, INCLUDING ANTS, COCKROACHES, & TERMITES, AND IS INTENDED TO PREVENT THEIR INFESTATION IN BUILDING VOIDS (ATTICS, WALLS, STUD CAVITIES, BETWEEN-FLOORS, CRAWLSPACES), WHERE THE PRODUCT IS PROPERLY APPLIED. ITS TOXIC EFFECT ON THE LISTED INSECTS BEGINS ONLY AFTER INSECT CONTACT WITH THE PRODUCT.

T•A•P IS NOT RECOMMENDED AS THE SOLE PROTECTION AGAINST TERMITES. USE OF THIS PRODUCT DOES NOT SUBSTITUTE FOR PRE-AND/OR POST-CONSTRUCTION MECHANICAL ALTERATION, SOIL TREATMENT, FOUNDATION TREATMENT OR OTHER CONVENTIONAL PEST CONTROL TREATMENTS. THE ACTIVE INGREDIENT (AI) IS 11.1% ORTHOBORIC ACID. FOR ACTIVE TERMITE INFESTATIONS, GET A PROFESSIONAL INSPECTION.

T•A•P Insulation has been installed in the home of:

Name: ____
Address: ____
City, State, Zip Code: ____

T•A•P Insulation has been installed by:

Name of Installer: ____
Address of Installer: ____
City, State, Zip Code: ____
Date Installed: ____
Signature: ____

Attic:	Square Feet: ________	R-Value: _______	# of Bags installed: _____
Crawl/Ceiling:	Square Feet: ________	R-Value: _______	# of Bags installed: _____
Walls:	Square Feet: ________	R-Value: _______	# of Bags installed: _____

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PO Box 25, Homer, GA, 30547
706-677-4050; Toll Free 866-BUG-PCIS (284-7247); Fax 706-677-4025;
www.TAPinsulation.com