

T.A.P.TM

**PEST CONTROL
INSULATION**

www.TAPinsulation.com

INSTALLATION TRAINING GUIDE



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INSTALLATION TRAINING GUIDE

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INTRODUCTION

Although this manual provides general recommendations with applicability based on standard building practices, local experience and local building codes should also be considered. In the event that a conflict between local code or regulatory requirements and the recommendations in this guide occur, authorities having jurisdiction should be consulted, or the local code and regulatory requirements should govern.

Safety First



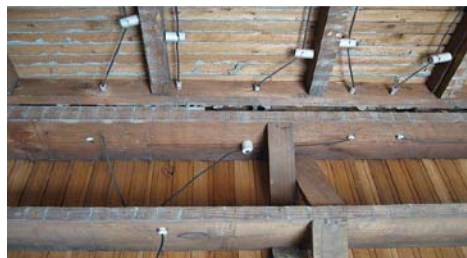
Inspectors and technicians moving about in attics, handling machinery, and T•A•P Pest Control Insulation should always follow safety guidelines specific for their activity. This includes wearing required personal protective equipment (goggles, respirator, long sleeved shirts/long pants, and proper gloves). Attic temperatures can easily exceed 130°, so always be sure to keep attic technicians hydrated with sports drinks, water and give adequate cooling breaks. When handling machinery always follow the manufacturer's guidelines. Also, it is strongly recommended that temporary walk boards and bump hats be utilized

when moving about in an attic.

Knob & Tube Wiring (*Warning!*)



Knob & tube wiring was a common method of wiring electricity in homes beginning sometime in the 1920's and continuing in some areas as late as the 1950's. This type of wiring is most often characterized by white ceramic knobs and tubes attached to joists or studs, to which individual wire strands are attached or passed through. It is our policy that houses with knob and tube wiring should be avoided and the homeowner should be advised to consult a qualified electrician about rewiring the house before adding any insulation. See Illustrations below.



The T•A•P Label

T•A•P Pest Control Insulation is an EPA labeled pesticide and must meet the requirements of the EPA, OSHA, CPSC, and the FTC. The specimen label is included in the appendix to this manual and should be reviewed in detail by the selling and installing staff. Always remember, "The label is the law." More information, including T•A•P's MSDS is available in the member's section of our website – www.TAPinsulation.com

Members Support – Training Videos

Please go to the members support section of the website to view our installation training videos.



Logged in as: TAP [Logout](#)



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Welcome Members! Here in the Member Resource section you'll find numerous documents, videos, and other materials to assist you with all things T•A•P related. Simply click on a category below to display links and more information. If you have questions or do not see what you need, please contact our Marketing Coordinator, Vivian Parker at 706-677-4050 or via email: vparker@tapinsulation.com



[Attic Capping](#)



[Removal](#)



[Crawlspace](#)



[Marketing & More](#)



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“The Thermal Envelope as a New Method of Pest Protection”

T•A•P Pest Control insulation was conceived and developed as an entirely new method of pest protection enlisting the thermal envelope of a structure for the dual purpose of pest protection and reduced energy consumption. “Thermal Envelope” is defined as the physical part of a structure that separates the outside environment from conditioned spaces. T•A•P is unlike any other product since it carries an EPA registration as a pesticide - and is registered in all 50 states. So although it is applied like an insulation product, T•A•P is regulated as a pesticide and is only available from properly licensed pest management professionals.

T•A•P Pest Control Insulation proudly bears EPA’s **ENERGY STAR®** label, offering pest protection that literally pays for itself through reduced heating and cooling costs to the consumer. It uses highly refined, pesticide grade boric acid as its active ingredient, giving the homeowner virtually permanent, low impact pest control to go with a lifetime of lower utility bills. In addition to the utilization of borates, T•A•P is composed of 87% recycled paper, permanently diverting countless tons of paper annually from the waste stream, to be used in homes nationwide. With the use of T•A•P in the thermal envelope a whole new approach to IPM practices and LEED credits are available to PMP’s.



This book’s content is designed to help make installing T•A•P a successful and profitable part of your business. Please let us know how we can do better by e-mailing your comments and suggestions to *info@TAPinsulation.com*.

Thank you!

Orderly Trucks and Trailers

A place for everything and everything in its place.

The organization of your truck and or trailer will insure safety & efficiency for several reasons:

- You will notice when something is missing;
- You will be able to find items quickly, which is important for safety:

Remember...We're here to help YOU! The TAP membership section of our website was designed with ***you*** in mind. It's your 24 hour access to our order site as well as your personal filing cabinet for TAP literature, training guides and sales aids.

Material Handling

You may order TAP Insulation to be delivered stretch-wrapped and palletized for efficient handling. If you can easily unload a truck with a forklift, or pallet jack, then insulation delivered in this form will improve efficiency.

It is also possible to receive a drop trailer of material, if space allows. When you run out, the empty trailer is picked up and a full one is left. An additional benefit of a drop trailer is the dry and secure locked storage it will provide for your tools, equipment and supplies.

Protective Gear



Replaceable cartridge respirator



NIOSH N95 Dust Mask/Respirator



The Tools and Supplies Checklist is a valuable tool to help you pull together and order all of the items you will need for a successful TAP installation! Arriving at your customer's location unprepared, without the proper tools can quickly turn into a costly mistake. If you follow this checklist you will be ready to tackle just about any situation that may arise. **This checklist is located at the back of this guide. Please see appendix.**

ORDERING YOUR SUPPLIES

Review the Tools & Supply Checklist in this guide to be sure you have all of the items needed.

Please see coverage guides if you are not sure how many bags of TAP you will need.

WEBSITE MEMBERSHIP

You now have access to our Membership Section of the Website, including access to Sales and Installation Guides, Training Manuals, Marketing Literature and more. You can find all of the Forms that were provided in the package and on the website. We are constantly adding new material and we will be glad to help you locate any information that is needed.

Go to: www.tapinsulation.com and scroll over to the “Professionals” tab and select “Sign In” from the drop down menu. You will be re-directed to our web store page where you will be prompted to enter your user name and password. **If you have not received one, please call us at 866-248-7247.**

Upon login, you should see 3 tabs across the top of the page: “Members,” “Web Store,” and “My Account.” The Web Store tab is used for placing orders for insulation and supplies. The My Account tab is used for tracking order activity. The Members tab is where you will find training materials, marketing materials, PowerPoint presentations & Media information. If you have not yet received your customer specific login or if you forget your login information please contact us for help.

Once on the Members page of the website, you may choose the following tabs in which you can access information

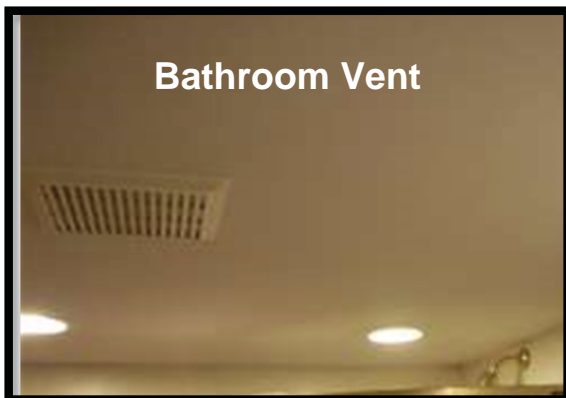
- Training Materials - TAP Programs
- Standard TAP Literature
- Marketing Literature
- Support Articles
- Media
- TAP Certification Test – Take the test online for your certification.
- Estimating Tools

WHAT TO LOOK FOR BEFORE ENTERING THE ATTIC

Look for the following items in the home.

Inspect ceilings for the following:

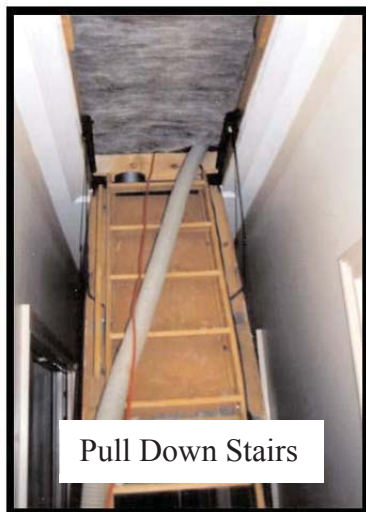
- 1) Moisture damage, mold
- 2) Cracks, holes, and other penetrations
- 3) Unsealed gaps around exhaust fans, lights, pull-down stairs, etc.
- 4) Whole house (Attic) fans
- 5) Chimneys
- 6) Recessed (tray) ceilings
- 7) Make notes of any potential problems to review with customer - **prior** to entering the attic. Take digital photos of any pre- existing damage whenever possible.
- 8) *Always check your job notes for any specific instructions or requests from your customer or your salesperson.*



ATTIC ACCESS

- 1st Choice: Pull down stair
- 2nd Choice: Access hatch in the garage (sometimes called a scuttle hole).
- 3rd Choice: Access hatch in the home often found in a closet;
- 4th Choice: Through a gable or roof vent;

Insulate everywhere and watch for knee-walls and other areas that may be hard to reach or may even require separate access.



Pull Down Stairs

Notice netting used to minimize clean up.



Attic Hatch

Always take precautions to protect your customers flooring and carpeting. Wrapping duct tape around the blowing hose clamps will prevent scratches and other damage to your customer's property, while providing you with the extra security of knowing that your hose connections won't come undone! Use drop cloths to protect corners as well as flooring.



Wood work & Corner Protection.



Protecting Carpet with Drop Cloth



Attic Tent
An attic tent is the perfect finishing touch.

ATTIC VENTILATION

Always walk around the outside of the house to see the types of ventilation used.

The majority of building codes in the U.S. require some minimum amount of attic ventilation designed to allow moisture to escape from the area. As a general rule, 1 square foot of ventilation is required for every 300 square feet of attic space if a vapor retarder is present between the attic and living space of a home. A vapor retarder can be as simple as a painted ceiling. Where air permeable ceilings are present, such as unpainted sheet rock, paneling or a permeable ceiling material such as Celotex, the ratio of ventilation to attic space is 1 square foot per 150 square feet of space.

An easier rule of thumb is to vent and block every other roof joist if no gable or roof vents are in place. Vent and block every third roof joist if there are gable vents installed.

While in the attic, extra care should be taken to step only on joists and not in between. This could result in damage to the ceiling or worse, injury to the inspector as a result of falling through the drywall.

We suggest that $\frac{3}{4}$ " CDX plywood be used while in the attic area. A 4'X8' sheet that is cut into 3 equal boards works great! This will yield (3) 32"X48" pieces that can be used for footing and weight distribution.

The inspector must make note of existing recessed lighting, chimney flues, access to existing ventilation systems, A/C units installed inside the attic, bathroom fans that are vented into the attic space, moisture present in the attic as a result of roof leakage, signs of insect and/or rodent activity and structural deficiencies that could lead to future pest entry.

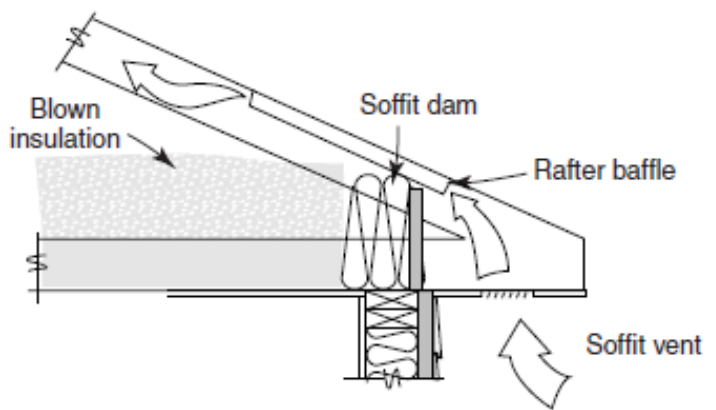
Ventilation Diagram

*Air flows out
through exhaust
vents.*



Air enters the attic through soffit vents.

Ventilation Cross Section



Protect Existing Ventilation



As discussed previously, ventilation is important and the applicator must be careful to avoid blocking the existing ventilation.

Soffits must remain clear to allow fresh air to enter the attic space to keep roof sheathing dry. Soffit ventilation is commonly protected from blockage with one of the following:

Now let's enter the attic

Two methods for protecting existing ventilation are baffles and polyvents. **Baffles** are placed between the roof joists to prevent the insulation from blowing into the soffit area (baffles are usually made from corrugated cardboard which is cut and stapled in place).



Cardboard Baffles

Cardboard baffles are ideal for use in houses with pre-built truss construction.

Polyvents work best in the attics of stick built homes. A good plan of action is to have both types on hand.



Polyvent

A **polyvent** is placed between the rafters to permit air flow from the soffit vents and to prevent the insulation from piling up to the bottom of the roof sheathing, where it will block air flow (vent chutes may be purchased for 16" and 24" O.C. rafters and are stapled in place).

Never cover or block vents with insulation. Take care to prevent loose-fill insulation from clogging the vents by using baffles.

If adding insulation may cause soffits to get covered up, first block and vent the areas. If the house you are inspecting does not have adequate ventilation, let the homeowner know that a turbine vent, ridge vent, or ventilator may help. Additional insulation will help a house even if it does not have proper ventilation.



During construction of a new home, it is much easier to place baffles or vents, before the ceiling sheetrock goes in. Baffles work well on 16" and 24" joist centers. When there are odd sizes, or irregularities, vents and blocking (such as fiberglass), work best.

Be sure to run the vent high enough so that insulation will not fall into the vent. On existing houses, be sure not to block or damage the existing baffles or vents. It may be necessary to add baffles or vents to an existing house, especially if there is a chance of blocking the ventilation or filling the soffits. It's more difficult to place baffles or vents, in an existing house. But, it is still very important.

Cardboard baffles are an ideal choice when pre-built truss construction has been used in building the home.



Cardboard baffles installed in attic with pre-built truss construction

Polyvent installation in a pre-existing home



Polyvents are delivered in 24" widths. If your joists are 16" O.C. split in half lengthwise along the center perforation.



Slide the polyvent into the eave and staple to the roof using your hammer stapler.

Polyvent installation in a pre-existing home



Cut strips of fiberglass sized to prevent loose TAP from entering the eave.



Snugly insert fiberglass into the eave by hand.



Use a broom to make sure fiberglass is snug if access to eave is difficult.



Polyvents were used because of the stick built joist system in this attic. Vents and blocking are in place. Now we're ready to move on to building a barrier for our recessed light!

RECESSED LIGHTS

There are two types of recessed lights: “IC rated” and non-IC rated. “IC” means the light fixture is rated for insulation contact, so insulation can be installed around and on top of these lights. Many new recessed lights today are IC rated. It is easy to tell, just check on the actual fixture itself for the “IC” designation. If you do not see any IC rating or designation on the light, you should assume it is not rated for insulation contact.

Regardless of whether a light is IC rated by its manufacturer, we recommend keeping insulation 3 inches away from all recessed lights to avoid any potential complications (such as having the light overheat and automatically shut off).

Building materials and insulation must be kept away from recessed lighting fixtures. Section 410-66, of the 1978 National Electrical Code states:

Recessed portions of enclosures, other than at points of support, shall be spaced at least 1/2 inch from combustible materials. Thermal insulation shall not be installed within 3 inches of the recessed fixture enclosure, wiring compartment or ballasts and shall not be so installed above fixture as to entrap heat & prevent free circulation of air unless the fixture is otherwise approved for that purpose.



Building a barrier to protect non-IC rated lighting



Barrier protecting recessed light.

ATTIC RULERS



Placement of attic rulers is required usually at a ratio of one ruler to every 300 square feet (check your local building codes and requirements). It is a great tool for the installer as it helps to determine whether the proper amount of insulation has been installed.

Place the rulers against supports when possible and in a direction that an inspector, homeowner or builder will be able to easily see them.

HVAC SYSTEMS

Combustion air intakes for furnaces and other appliances must not be blocked by the insulation.

HVAC Systems located in areas that are to be insulated shall be carefully blocked with barriers to prevent insulation from affecting the equipment (this includes insulation falling into the drain pan that may be under the equipment).

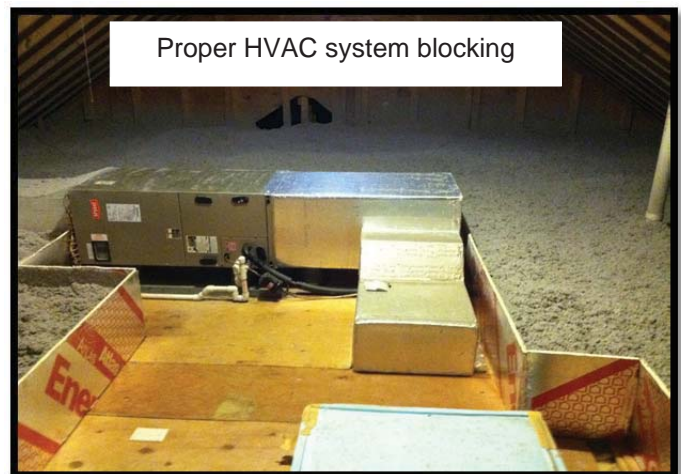
Completely clean the drain pan after insulating the attic.

Any openings in the ductwork should be repaired.

Any damaged or weak ductwork should also be repaired.

Use care when insulating around flexible ductwork (flex-duct).

Carefully survey the heating and cooling system and make sure that insulation does not hinder the operation or performance of the system in any way. Also survey the ductwork and make sure that insulation is not drawn into the duct system.



SPECIAL SITUATIONS

Water Heaters

Combustion air intakes for water heaters and other appliances must not be blocked by the insulation.

Water heaters located in areas that are to be insulated, shall be carefully blocked with barriers to prevent insulation from affecting the equipment (this includes falling into the drain pan that may be under the equipment).

Open Areas & Cavities

Any holes in the ceiling that would allow the insulation to escape should be sealed.

This includes openings into interior walls, openings above stairs, cabinet bulkheads and shower/tub bulkheads.



Always check for gaps around plumbing and cabinet bulkheads.

Foam used to seal plumbing bulkhead



Chimneys, flues, water heaters and other heat producing devices should not come in contact with insulation. Be sure to build a barrier with at least 3 inches of clearance around these items. Check with your local building or fire officials for guidance on installation and barrier requirements.

Attic/Whole House Fans

Whole house fans should have a permanent barrier built around them that extends at least 4 inches above the fan or the top of the insulation, whichever is greater.

If the whole house fan is not used in the winter, it is advisable to cover it with an appropriate insulating cover that can be removed during the season when the fan will be used. Owners should be consulted before covering the fan and must be informed that the cover must be removed before the fan may be used. Owners should also be informed that replacing the cover in the winter will reduce the amount of heat loss.



NETTING

Netting is used for a variety of purposes, including blowing TAP in vertical applications, such as dense packing walls, insulating knee walls, and for providing a barrier to insulation in areas where it should be blocked like storage areas and HVAC systems. Please see additional wall preparation instructions in the appendix.



Step by Step Netting and Dense Pack Installation Photos.



Place your staples every 2". If netting is not tight, lip stitch or staple on the side of the stud to tighten the netting.



Cut 3" slits in each cavity to allow for the blower hose.



Blowing into the void starting at the bottom and working up.



Finish blowing from the top down.

After installation of TAP into the voids, a piece of white duct tape placed over the slit will provide a professional finish to the job!

DENSE PACKING SPECIFICATIONS For application and quoting:

31.25 bags per 1000 sq ft for 2 x 4 walls 16 or 24" OC.

50 bags per 1000 sq ft for 2 x 6 walls 16 or 24" OC *Density will vary from 3.43 to 3.61.

Ready to blow!

**Remove all of your tools
from the attic.
Insulation will hide
them from your view!**

INSTALLATION CHECKLIST

Respirators/dust Masks are recommended when installing in confined areas such as attics. Cellulose dust is only a nuisance dust, but may irritate nasal passages. Persons sensitive to dust may find goggles useful.



The installer should take the following into the attic:

1. Utility light
2. Flashlight
3. Dust masks/respirator
4. Goggles/safety glasses
5. Knee pads
6. Walk Board
7. Two way radio to communicate with your partner
8. Bump/hard hat

Here is a final checklist before installation (also see Pre-Application Checklist in Presentation Materials)

1. Attic opening sealed with poly so material won't enter the house or sensitive areas
2. Attic Rulers placed every 150 to 300 feet minimum
3. Attic is properly blocked and vented
4. HVAC is turned off
5. Doors are closed inside the house
6. Recessed lights and heat generating devices are blocked and cleared
7. Holes in attic blocked or covered
8. Items stored in attic are covered or protected

TO BEGIN INSTALLATION

Open the material feed rate as much as possible while maintaining good agitation and conditioning. (Refer to the manufacturers guide for your blowing machine.)

Use the minimum amount of hose and air necessary to carry the insulation – this will reduce the amount of dust. (This setting will vary depending on the length of hose you are using.) (Refer to the manufacturers guide.)

Run the insulation hose to the furthest point in the attic, and begin blowing there.

Work your way from the outside edges toward the access hole.

Follow the coverage chart on the bag to install the proper depth for the desired R - value. It is important to recognize that when this insulation material is initially blown, it is pumped full of air and charged with static electricity. For instance, if your goal is to add 8" of additional insulation, you will need an additional inch of material to allow for some settling.

Attic perimeters that are not easily accessible may be reached by attaching a rigid PVC extension to the end of the hose.

Coverage and Density

Density is established according to how many pounds of insulation are required for the designed (also called the settled) density.

Many factors affect coverage and density, including:

- Type of blowing machine;
- Weather conditions (such as humidity)
- Installation techniques
- Type of hose.

As you can see, coverage and density will vary slightly. The most important concern is to make sure that the homeowner receives a quality insulation job at the proper level.

The best way to ensure a good job is to:

Accurately measure the entire attic;

- Use the coverage chart to calculate the minimum number of bags needed
- Use the coverage chart to determine the minimum insulation depth

You will find additional information on coverage including coverage charts in the appendix of this guide.

FEDERAL REGULATIONS

The Federal Trade Commission requires that:

R-value, thickness, coverage area (square feet) and the number of bags are disclosed to the consumer on a contract or receipt that is dated and signed by the installer.

This same regulation also requires that:

If you are an installer, you must have fact sheets for the insulation products you sell. Before customers agree to buy insulation from you, you must show them the fact sheet for the type of insulation they want.

Many installers satisfy these requirements with detailed contracts.

WARRANTY

Remember... Before leaving the attic always attach the warranty and the rate card in a visible location for the homeowner's reference.

Please see the sample warranty in the appendix



Cleanup

Cleanup is essential to keeping a happy customer and to showing that your crew is professional and conscientious. **If there is HVAC equipment in the attic, completely clean the drain pan after insulating the attic.**

Once all tools and equipment are removed from the interior of the home, a final inspection/cleaning of the affected areas should be conducted. A damp cloth works well to wipe down the top of door frames, picture frames, furniture, etc.



When the project manager is satisfied that the work area is clean and the service was provided satisfactorily, a final walk through should be done with the customer in an effort to explain what was done. Items covered with the customer might include:

- ✓ Additional insulation added to allow for settling
- ✓ Areas accessed by technicians are clean and orderly
- ✓ Proper care was taken to ensure that all attic installed equipment is protected
- ✓ Respond to any questions or concerns that the customer may have
- ✓ Ask for a referral

Machine Settings

Now let's look at our settings:

If your machine has a blower control, set the dial setting to high or #8. (Note: If not using stabilized wetting system, you may cut back air slightly to reduce dust.)

The Material Feed gate should be about half open. If material is not blowing in a steady solid stream from hose, close the gate slightly to allow a higher ratio of air to fiber.

After adjusting air/material ratios, test the system by turning on the remote hand pendant.



425 Blowing Machine

When you begin a job, start with the hopper empty. Feed T•A•P Pest Control insulation into the hopper by removing plastic outer wrap and breaking the cube into several chunks. When you finish, blow the hopper empty. If you don't have a two-way radio, ON/OFF signals work well. **PLEASE NOTE: The number one cause of poor output or uneven flow is a worn or damaged rubber airlock seal!** For more information please see troubleshooting guide in the appendix of this manual.

Let's review a few safety issues:

- Read the Owner's Manual in advance.
- All personnel **must** wear approved respirators/dust masks
- All hoses **must** be securely clamped to prevent detachment and reduce airborne fibers.
- Use properly grounded electrical supply.
- Unplug the machine when servicing and inspecting.
- Keep hands away from moving agitators. The hopper is designed with reverse taper to eliminate bridging. Do not push fiber with hands or tools.

Airlock Seals



Maintaining Blowing Machine & Hoses

Properly maintaining your blowing machine is vital to your installer's safety and efficiency and to your machine's performance and longevity. Inspect the hopper before every job. Every installer has stories about items that fell in the hopper like string, plastic, gloves, extension cords and even cell phones!

Inspect the hose, remote control cable and water line if so equipped, before every job! Look for obstacles in the hose, exposed wires in the remote control cable, and straighten all hoses and lines to remove kinks. Consider installing reels to keep hoses and lines out of the way, protect them from damage, and to speed set-up and teardown. Preventive maintenance on the blowing machines (and generator) should be performed as recommended by the manufacturer, daily, weekly and monthly.

TROUBLESHOOTING YOUR MACHINE

IMPORTANT: DO NOT attempt to service unit. (Contact your dealer for further information.)

1. If machine does not run:

- Make sure emergency stop button on **CONTROL PANEL** is pulled out and start button is pressed.
- Check manual reset button on circuit breaker. Press to reset.
- Check **REMOTE CONTROL CORD** for broken connections.
- Switch blower motor toggle on **CONTROL PANEL** to right position, **ON**.
- Check power cords for proper connection.

2. Loud knocking sound:

- UNPLUG** power supply. Check machine agitators and airlock for foreign objects.
- UNPLUG** power supply. Check for misaligned sprockets or loose chain.

3. Poor output from machine or uneven flow through hose:

- Open **SLIDE GATE**.
- Units with variable speed **BLOWER CONTROL**, turn **BLOWER CONTROL** up.
- UNPLUG** power supply. Check for material bridging in hopper.
- Low voltage, try another electrical source. Proper wire size for extension cord (#12-3 wire) for 50' or (#10-3 wire) for 100'.
- UNPLUG** power supply. Check for worn or damaged rubber airlock seals.

4. Too much dust on open blow:

- Open **SLIDE GATE**.
- Units with variable speed **BLOWER CONTROL**, turn **BLOWER CONTROL** down.

5. **BLOWER MOTOR** running hot:

- UNPLUG** power supply. Clean filter. Blow out surrounding area with air hose.
- UNPLUG** power supply. Check for restriction in blowing hose.
- UNPLUG** power supply. Check for buildup of fiber around blower.

6. **AGITATOR MOTOR** running hot:

- UNPLUG** power supply. Check for fiber buildup around motor and blow out with air hose.
- Low voltage can cause this condition. Try another electrical source (#12-3 wire).
- UNPLUG** power supply. Debris jamming airlock. Rotate airlock manually and clean out.
- UNPLUG** power supply. Check for sprocket misalignment and bearing wear.

Machine Settings

Now let's look at our settings:

If your machine has a blower control, set it the dial setting to high or #8. (Note: If not using stabilized wetting system, you may cut back air slightly to reduce dust.)

The Material Feed gate should be about half open. If material is not blowing in a steady solid stream from hose, close the gate slightly to allow a higher ratio of air to fiber.



425 Blowing Machine

ACTIVE INGREDIENT:

ORTHOBORIC ACID.....	12.5%
OTHER INGREDIENTS.....	87.5%
TOTAL.....	100.0%

FOR USE IN NEW CONSTRUCTION AND RETROFIT APPLICATIONS

- ATTICS • FLOORS • WALLS • CRAWLSPACES •
- OVERLAY FIBER GLASS OR OTHER INSULATION •

FOR USE IN NEW CONSTRUCTION AND RETROFIT APPLICATIONS

- Helps protect your home environment from annoying insects and other arthropods*
- Contains 87% recycled paper
- 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 is the result of a patented process.
- HOMES
- APARTMENTS & CONDOMINIUMS
- OFFICES & INDUSTRIAL BUILDINGS
- HOTELS AND MOTELS
- HOSPITALS & NURSING HOMES
- RESTAURANTS
- SCHOOLS

CAUTION • KEEP OUT OF REACH OF CHILDREN

FIRST AID

IF ON SKIN OR CLOTHING:

- 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.

Have the product container or label with you when calling a Poison Control Center or doctor, or when going for treatment.

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE) Applicators, mixers, and other handlers must wear:

- Long-sleeved shirt
- Long pants
- Chemical resistant gloves
- Dust mask or protective respirator
- Socks, shoes
- Dust goggles

READY-TO-USE T.A.P.™ Thermal, Acoustical and Pest Control Insulation is an insect/arthropod control insulation. This product is toxic to listed insects and other arthropods 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/arthropod contact with product.

KILLS: Cockroaches, Termites (including Formosan Termites), Ants, Silverfish, Earwigs, Crickets, Sow bugs, Darkling Beetles, Millipedes, Centipedes, and Booklice.

This insulation contains material toxic to these insects/arthropods and is intended to prevent new infestations in walls and attics where the product is applied. Control of insects/arthropods is limited to contact with insulation.

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. Insulation applicators installing this material should be familiar with and carefully follow installation instructions from the manufacturer.

NOT FOR 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, you should consult a licensed pest control operator.

EASY AS 1-2-3 Attic Preparation

- Maintain attic ventilation. Insulation should not cover any attic ventilation. Use baffles or vent chutes. Do not cover soffit vents.
- Insulation should not cover or touch heat producing components like light fixtures. Create barriers to maintain a 3" clearance.
- Create a barrier around your attic access to keep insulation in place when entering or exiting attic.

FOLLOW INSTRUCTIONS FOR SET UP OF BLOWING MACHINE

1. Position Blowing Machine outside house. Plug in and attach 100' hose.
2. Run hose to attic through nearest access. Avoid tight turns.
3. Blow insulation into attic or on top of existing insulation to desired thickness/R-Value.

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 furnace, 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 180°F. 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. **If empty:** Do not reuse or refill this container. Place trash or offer for recycling if available. **If partly filled:** call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

*Effective against listed organisms.

MATERIAL SAFETY DATA SHEET

Pest Control Insulation, LLC
5285 Mountain Center Plaza
Suite 100
Lula, GA 30554
(866) BUG-PCIS
www.TAPinsulation.com

EFFECTIVE DATE: December 1, 2010

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	T·A·P® PEST CONTROL INSULATION	
Chemical Name:	Boric Acid (Orthoboric Acid) – 12.5%	
General Use:	Building Insulation with Pesticidal Properties	
Product Description:	Recycled Newspaper Treated With 12.5% Boric Acid	
CAS Registry Number:	10043-35-3	EMERGENCY PHONE NUMBER:
TSCA Inventory Number:	Not Established	Pest Control Insulation, LLC - 866-284-7247
EPA Pesticide Reg. No.:	72787-1-83896	

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

TAP® PEST CONTROL INSULATION is a gray product with the appearance of milled paper with a slight damp paper odor, if any, which is treated with boric acid for flame and insect control. The product is not flammable, combustible, or explosive, and it presents no unusual hazard if involved in a fire.

POTENTIAL ECOLOGICAL EFFECTS:

Large amounts of TAP® PEST CONTROL INSULATION can be harmful to boron-sensitive plants and other ecological systems.

POTENTIAL HEALTH EFFECTS:

- 1) **Routes of Exposure:** Inhalation is the most significant route of exposure in occupational and other settings.
 - 2) **Inhalation:** Dust inhalation may cause irritation in nose or throat.
 - 3) **Eye Contact:** Dust may cause eye irritation upon eye contact.
 - 4) **Skin Contact:** Does not normally itch or irritate skin.
 - 5) **Ingestion:** Ingestion of large quantities will cause gastrointestinal irritation.
 - 6) **Cancer:** Not considered a carcinogen.
 - 7) **Reproductive:** Long-term, high dose animal ingestion studies of boric acid have demonstrated reproductive effects in male animals. A human study of occupational exposure to borate dust showed no adverse effect to reproduction.
 - 8) **Developmental:** Multiple high dose animal ingestion studies of boric acid have demonstrated developmental effects in fetuses of pregnant animals, including fetal weight loss.
 - 9) **Target Organs:** No target organ has been identified in humans. Multiple high dose animal ingestion studies of boric acid indicate the testes are the target organs in male animals.
 - 10) **Signs and Symptoms of Exposure:** Symptoms of accidental over-exposure to borate products have been associated with ingestion or by absorption through large areas of damaged skin. Exposure via either route, given a sufficient dose, might result in signs and symptoms such as central nervous system effects, kidney effects, nausea, vomiting, and diarrhea, with delayed effects of skin redness and peeling (via the dermal route).
-

SECTION 3 - FIRST AID MEASURES

Inhalation: Prolonged exposure to dust levels in excess of regulatory limits should always be avoided. If irritation occurs, drink several cups of water and rinse dust from nose and mouth. If irritation persists, seek medical attention.

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

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

Ingestion: If ingested, rinse mouth and drink large amounts of water. If symptoms continue seek medical attention.

NOTE TO PHYSICIANS: For ingestion of large amounts, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analyses of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment.

SECTION 4 - FIRE FIGHTING MEASURES

General Hazard: TAP® PEST CONTROL INSULATION is not flammable, combustible or explosive..

Extinguishing Media: Any fire extinguishing media may be used on nearby fires.

Flammability: Material contains fire retardant and has a critical radiant flux greater than or equal to .12 w/cm² 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.

SECTION 5 - ACCIDENTAL RELEASE MEASURES

Land Spill: Vacuum, shovel or sweep up and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal.

Water Spill: will cause localized contamination of surrounding waters depending on the quantity dissolved in these waters. At high concentrations some damage to local vegetation, fish and other aquatic life may be expected.

SECTION 6 - HANDLING AND STORAGE

Storage Temperature: Ambient

Storage Pressure: Atmospheric

Special Sensitivity: None known

General: No special handling precautions are required, but dry storage is recommended. Store securely out of reach of any children. Good housekeeping procedures should be followed to minimize dust generation and accumulation. Do not contaminate water, food, or feed by storage or disposal.

SECTION 7 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use local exhaust ventilation to keep airborne concentrations of dust below permissible exposure levels.

Personal Protection: Dust mask or protective respirators, dust goggles, long-sleeved shirt, chemical resistant gloves, long pants, and socks/shoes are required.

Occupational Exposure Limits: Particulate Not Otherwise Classified

OSHA: PEL**	15 mg/m ³ total dust and 5 mg/m ³ respirable dust
ACGIH: TLV**	10 mg/m ³ total dust

SECTION 8 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray fiber
Viscosity:	Not Applicable
Vapor Pressure:	Negligible
Solubility in Water:	Not established

Boiling Point:	Not Applicable
Melting Point:	Not Applicable
Flash Point:	Not Applicable

SECTION 9 - STABILITY AND REACTIVITY

General: TAP® PEST CONTROL INSULATION is a stable product.

Incompatible Materials and Conditions to Avoid: None known.

Hazardous Decomposition: None

SECTION 10 - TOXICOLOGICAL INFORMATION

NOTE: TAP[®] PEST CONTROL INSULATION contains 12.5% boric acid and 87.5% recycled paper and/or inert ingredients. The boric acid data discussed in this section relates to 100% pure boric acid, borax, or other borates.

INGESTION (ACUTE ORAL TOXICITY): LD₅₀ of boric acid – 2,660 mg/kg of body weight (oral, rat).

SKIN (ACUTE DERMAL TOXICITY): None known.

INHALATION: Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid dust.

CARCINOGENICITY: A Technical Report issued by the National Toxicology Program showed "no evidence of carcinogenicity" from a full 2-year bioassay on boric acid in mice at feed doses of 2500 and 5000 ppm in the diet. No mutagenic activity was observed for boric acid in a recent battery of four short-term mutagenicity assays.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: Multiple high doses of boric acid to animals have shown a reduction or inhibition of sperm production, causing testicular atrophy, and, when given to pregnant animals during gestation, may cause developmental changes. These feed studies were conducted under chronic exposure conditions leading to doses many times in excess of those that could occur through inhalation of dust in occupational settings.

SECTION 11 - ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Phytotoxicity: Although boron is an essential micronutrient for healthy growth of boron-sensitive plants, it can be harmful to plants in higher quantities. Plants and trees can easily be exposed by root absorption to toxic levels of boron in the form of water-soluble borate leached into nearby soil or waters. Care should be taken to minimize the amount of borate product released to the environment.

Aquatic Toxicity: Boron naturally occurs in sea water at an average concentration of 5 mg B/liter. Boron concentrations in fresh surface waters are generally less than 1 mg B/L.

SECTION 12 - DISPOSAL CONSIDERATIONS

Disposal Guidance: Dispose of small quantities with other sanitary waste. Refer to state and local regulations for applicable site-specific requirements. Follow all applicable laws and regulations for pesticide disposal. Never place any unused product down any indoor or outdoor drain.

SECTION 13 - TRANSPORT INFORMATION

DOT Hazardous Material Classification: not a U.S. Department of Transportation (DOT) Hazardous Material.

DOT Hazardous Substance Classification: is not a DOT Hazardous Substance.

SECTION 14 - REGULATORY INFORMATION

FIFRA: TAP[®] PEST CONTROL INSULATION is registered with the EPA, in accordance with Section 3 of FIFRA, as a pesticide. Refer to official EPA registered product label for additional product Hazard and Precautionary information.

NTP Annual Report on Carcinogens: not listed.

OSHA Carcinogen: not listed.

California Proposition 65: not listed on any Proposition 65 lists of carcinogens or reproductive toxicants.

OTHER INFORMATION

Product Label Text Hazard Information: Refer to the official EPA product label for additional product Hazard and Precautionary

information.

National Fire Protection Association (NFPA) Classification:

Health - 0, Flammability - 0, Reactivity 0

Hazardous Materials Information Systems (HMIS):

Red: (Flammability) - 0, Yellow: (Reactivity) - 0, Blue: (Acute Health) - 1 *

***Chronic Effects**

Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions or use are not under our control, we must necessarily disclaim all liability with respect to use of any material supplied by us.

Replaces all previous MSDS for TAP[®] Pest Control Insulation

For more information and locations of various manufacturing licensees contact Pest Control Insulation, LLC at: 866-284-7247



T*A*P* Attic Insulation Pre-Application Checklist

Customer Name: _____

Street Address: _____

City: _____ **State** _____ **Zip:** _____

To Be Completed by Inspector

- A. Type of Structure:** ☐ Slab ☐ Crawl ☐ Basement
 ☐ New ☐ Existing _____ Age
- B. Type of Attic Access** ☐ Door ☐ Scuttlehole _____ Size **Indicate on Graph.**
- C. Install Location:** ☐ Attic ☐ Crawl ☐ Walls
- D. Is Soffit venting, does it need to be blocked or baffled?** ☐ Yes ☐ No Joist Size Circle One 16 in. 24 in.
- E. Recessed Lighting:** ☐ Yes ☐ No _____ Number
- F. Tube & Knob Wiring:** ☐ Yes ☐ No
- G. Exposed Exhaust Fans:** ☐ Yes ☐ No
- H. Whole House Fan:** ☐ Yes ☐ No
- I. Attic Moisture Condition:** ☐ Yes ☐ No
- J. Is there a kneewall and does it need to be installed?** ☐ Yes ☐ No _____ Sq. Ft.
- K. Items Stored In The Attic?** ☐ Yes ☐ No
- L. Is there a chimney or flue?** ☐ Yes ☐ No
- M. Is the HVAC System located in the attic?** ☐ Yes ☐ No
- N. Are there open areas or cavities?** ☐ Yes ☐ No _____ Sq. Ft.
- O. Where is the Power Box located?** _____ **Indicate on Graph**

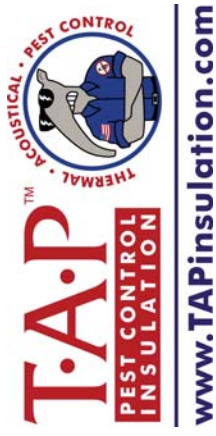
Inspector's Signature

Dated

Customer's Signature

Dated

INSULATION FACT SHEET



PEST CONTROL INSULATION, LLC
5285 Mountain Center Plaza
Lula, GA 30554
www.TAPinsulation.com

T•A•P™ Pest Control Insulation has been Installed using the manufacturer's recommendations to provide an R value of _____ using _____ square feet of _____ 30 Lb bags of insulation to cover _____ square feet of _____ area. R-Value calculated at 3.7 per inch.

CONTROLS: Cockroaches, Termites (including Formosan Termites), Ants, Silverfish, Earwigs, Crickets, Sowbugs, Darkling Beetles, Millipedes, Centipedes and Booklice.
 EPA Registration #72787-1-83896, U.S. Patent No. 6,578,782, Testing services furnished by R&D Services, Inc., This product is a CLASS 1 Building Material and complies with CPSC Standards 16 CFR1209 & 1404, and FTC Standard 16 CFR 460; Tested in accordance with ASTM C-739, E-84, & MIL-STD-810D for fungi resistance.

READ THIS BEFORE YOU BUY...What you Should Know About R-Values...

T•A•P™ Thermal, Acoustical, and Pest Control Insulation is a ready-to-use insect control insulation. This product is tested to help control the voids (attic, walls, between-floors, crawlspace) where the product is applied. Its effect begins only after insects come in contact with the product. 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.

THIS INSTALLATION:

R-Value @ 75°F	Initial Installed Thickness (in.)	Minimum Settled Thickness (in.)	Bags/1,000 Sq. Ft. 2"x6" Joists 16" On Ctr.	Net Coverage Sq. Ft./ Bag	Bags/1,000 Sq. Ft. 2"x6" Joists 24" On Ctr.	Net Coverage Sq. Ft. / Bag	Bags/ 1,000 No Joists	Net Coverage Sq. Ft. / Bag	Minimum Weight Per Sq. Ft. (Lbs.)
10	3.0	2.7	10.5	95.4	10.8	92.3	11.6	86.5	0.35
11	3.3	3.0	11.5	86.7	11.9	84.0	12.7	78.6	0.38
12	3.6	3.24	12.6	79.5	13.0	77.0	13.9	72.1	0.42
13	3.9	3.5	13.6	73.4	14.1	71.0	15.0	66.5	0.45
19	5.8	5.1	19.9	50.2	20.6	48.6	22.0	45.5	0.66
20	6.1	5.4	21.0	47.7	21.7	46.2	23.1	43.2	0.69
22	6.7	5.9	23.4	42.7	24.1	41.5	25.4	39.3	0.76
24	7.3	6.5	25.7	38.8	26.4	37.9	27.7	36.0	0.83
28	8.5	7.6	30.4	32.9	31.0	32.2	32.4	30.9	0.97
30	9.1	8.1	32.7	30.6	33.3	30.0	34.7	28.8	1.04
32	9.7	8.6	35.0	28.6	35.7	28.1	37.0	27.0	1.11
35	10.6	9.5	38.5	26.0	39.1	25.6	40.5	24.7	1.21
36	10.9	9.7	39.6	25.2	40.3	24.8	41.6	24.0	1.25
38	11.5	10.3	41.9	23.8	42.6	23.5	43.9	22.8	1.32
40	12.1	10.8	44.2	22.6	44.9	22.3	46.2	21.6	1.39
44	13.3	11.9	48.9	20.5	49.5	20.2	50.9	19.7	1.53
48	14.5	13.0	53.5	18.7	54.1	18.5	55.5	18.0	1.66
49	14.8	13.2	54.6	18.3	55.3	18.1	56.7	17.7	1.70
50	15.1	13.5	55.8	17.9	56.5	17.7	57.8	17.3	1.73
54	16.3	14.6	60.4	16.5	61.1	16.4	62.4	16.0	1.87
60	18.2	16.2	67.4	14.8	68.0	14.7	69.4	14.4	2.08

Structure Name _____

Owner _____

Address _____

City _____

State _____ ZIP _____

The chart above shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power will be. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate in which you live. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than you'll save on fuel. To achieve the stated R-value, it is essential that this product be installed at the coverage rates shown by a professional insulation applicator using equipment especially designed for this product and application technique. The above chart is for guidance only. Actual coverage may vary depending upon atmospheric conditions, application technique and equipment.

Installed by _____ Company Name _____ Address _____ Tel # _____ Date of Installation _____

T•A•P™ COVERAGE GUIDE

(BLOWN DRY - NO JOISTS)

(30lb Bag)

Inches- R-Value-	3.0 11.1	4.0 14.8	5.0 18.5	6.0 22.2	7.0 25.9	8.0 29.6	9.0 33.3	10.0 37.0	11.0 40.7	12.0 44.4	13.0 48.1	17.0 62.9
Sq. Ft.	BAG QUANTITY											
500	6.4	8.6	10.7	12.8	15.0	17.1	19.3	21.4	23.5	25.7	27.8	36.4
550	7.1	9.4	11.8	14.1	16.5	18.8	21.2	23.5	25.9	28.2	30.6	40.0
600	7.7	10.3	12.8	15.4	18.0	20.5	23.1	25.7	28.2	30.8	33.4	43.6
650	8.3	11.1	13.9	16.7	19.5	22.2	25.0	27.8	30.6	33.4	36.1	47.3
700	9.0	12.0	15.0	18.0	21.0	24.0	27.0	29.9	32.9	35.9	38.9	50.9
750	9.6	12.8	16.0	19.3	22.5	25.7	28.9	32.1	35.3	38.5	41.7	54.5
800	10.3	13.7	17.1	20.5	24.0	27.4	30.8	34.2	37.6	41.1	44.5	58.2
850	10.9	14.5	18.2	21.8	25.5	29.1	32.7	36.4	40.0	43.6	47.3	61.8
900	11.6	15.4	19.3	23.1	27.0	30.8	34.7	38.5	42.4	46.2	50.1	65.5
950	12.2	16.3	20.3	24.4	28.4	32.5	36.6	40.6	44.7	48.8	52.8	69.1
1,000	12.8	17.1	21.4	25.7	29.9	34.2	38.5	42.8	47.1	51.3	55.6	72.7
1,050	13.5	18.0	22.5	27.0	31.4	35.9	40.4	44.9	49.4	53.9	58.4	76.4
1,100	14.1	18.8	23.5	28.2	32.9	37.6	42.4	47.1	51.8	56.5	61.2	80.0
1,150	14.8	19.7	24.6	29.5	34.4	39.4	44.3	49.2	54.1	59.0	64.0	83.6
1,200	15.4	20.5	25.7	30.8	35.9	41.1	46.2	51.3	56.5	61.6	66.7	87.3
1,250	16.0	21.4	26.7	32.1	37.4	42.8	48.1	53.5	58.8	64.2	69.5	90.9
1,300	16.7	22.2	27.8	33.4	38.9	44.5	50.1	55.6	61.2	66.7	72.3	94.5
1,350	17.3	23.1	28.9	34.7	40.4	46.2	52.0	57.8	63.5	69.3	75.1	98.2
1,400	18.0	24.0	29.9	35.9	41.9	47.9	53.9	59.9	65.9	71.9	77.9	101.8
1,450	18.6	24.8	31.0	37.2	43.4	49.6	55.8	62.0	68.2	74.4	80.6	105.4
1,500	19.3	25.7	32.1	38.5	44.9	51.3	57.8	64.2	70.6	77.0	83.4	109.1
1,550	19.9	26.5	33.2	39.8	46.4	53.0	59.7	66.3	72.9	79.6	86.2	112.7
1,600	20.5	27.4	34.2	41.1	47.9	54.8	61.6	68.4	75.3	82.1	89.0	116.4
1,650	21.2	28.2	35.3	42.4	49.4	56.5	63.5	70.6	77.6	84.7	91.8	120.0
1,700	21.8	29.1	36.4	43.6	50.9	58.2	65.5	72.7	80.0	87.3	94.5	123.6
1,750	22.5	29.9	37.4	44.9	52.4	59.9	67.4	74.9	82.3	89.8	97.3	127.3
1,800	23.1	30.8	38.5	46.2	53.9	61.6	69.3	77.0	84.7	92.4	100.1	130.9
1,850	23.7	31.7	39.6	47.5	55.4	63.3	71.2	79.1	87.1	95.0	102.9	134.5
1,900	24.4	32.5	40.6	48.8	56.9	65.0	73.2	81.3	89.4	97.5	105.7	138.2
1,950	25.0	33.4	41.7	50.1	58.4	66.7	75.1	83.4	91.8	100.1	108.4	141.8
2,000	25.7	34.2	42.8	51.3	59.9	68.4	77.0	85.6	94.1	102.7	111.2	145.4
2,050	26.3	35.1	43.8	52.6	61.4	70.2	78.9	87.7	96.5	105.2	114.0	149.1
2,100	27.0	35.9	44.9	53.9	62.9	71.9	80.9	89.8	98.8	107.8	116.8	152.7
2,150	27.6	36.8	46.0	55.2	64.4	73.6	82.8	92.0	101.2	110.4	119.6	156.4
2,200	28.2	37.6	47.1	56.5	65.9	75.3	84.7	94.1	103.5	112.9	122.3	160.0
2,250	28.9	38.5	48.1	57.8	67.4	77.0	86.6	96.3	105.9	115.5	125.1	163.6
2,300	29.5	39.4	49.2	59.0	68.9	78.7	88.6	98.4	108.2	118.1	127.9	167.3
2,350	30.2	40.2	50.3	60.3	70.4	80.4	90.5	100.5	110.6	120.6	130.7	170.9
2,400	30.8	41.1	51.3	61.6	71.9	82.1	92.4	102.7	112.9	123.2	133.5	174.5
2,450	31.4	41.9	52.4	62.9	73.4	83.8	94.3	104.8	115.3	125.8	136.2	178.2
2,500	32.1	42.8	53.5	64.2	74.9	85.6	96.3	106.9	117.6	128.3	139.0	181.8
2,550	32.7	43.6	54.5	65.5	76.4	87.3	98.2	109.1	120.0	130.9	141.8	185.4
2,600	33.4	44.5	55.6	66.7	77.9	89.0	100.1	111.2	122.3	133.5	144.6	189.1
2,650	34.0	45.3	56.7	68.0	79.4	90.7	102.0	113.4	124.7	136.0	147.4	192.7
2,700	34.7	46.2	57.8	69.3	80.9	92.4	104.0	115.5	127.1	138.6	150.2	196.4
2,750	35.3	47.1	58.8	70.6	82.3	94.1	105.9	117.6	129.4	141.2	152.9	200.0
2,800	35.9	47.9	59.9	71.9	83.8	95.8	107.8	119.8	131.8	143.7	155.7	203.6
2,850	36.6	48.8	61.0	73.2	85.3	97.5	109.7	121.9	134.1	146.3	158.5	207.3
2,900	37.2	49.6	62.0	74.4	86.8	99.2	111.7	124.1	136.5	148.9	161.3	210.9
2,950	37.9	50.5	63.1	75.7	88.3	101.0	113.6	126.2	138.8	151.4	164.1	214.5
3,000	38.5	51.3	64.2	77.0	89.8	102.7	115.5	128.3	141.2	154.0	166.8	218.2
3,050	39.1	52.2	65.2	78.3	91.3	104.4	117.4	130.5	143.5	156.6	169.6	221.8
3,100	39.8	53.0	66.3	79.6	92.8	106.1	119.4	132.6	145.9	159.1	172.4	225.4
3,150	40.4	53.9	67.4	80.9	94.3	107.8	121.3	134.8	148.2	161.7	175.2	229.1
3,200	41.1	54.8	68.4	82.1	95.8	109.5	123.2	136.9	150.6	164.3	178.0	232.7
3,250	41.7	55.6	69.5	83.4	97.3	111.2	125.1	139.0	152.9	166.8	180.7	236.3
3,300	42.4	56.5	70.6	84.7	98.8	112.9	127.1	141.2	155.3	169.4	183.5	240.0
3,350	43.0	57.3	71.7	86.0	100.3	114.6	129.0	143.3	157.6	172.0	186.3	243.6
3,400	43.6	58.2	72.7	87.3	101.8	116.4	130.9	145.4	160.0	174.5	189.1	247.3
3,450	44.3	59.0	73.8	88.6	103.3	118.1	132.8	147.6	162.3	177.1	191.9	250.9
3,500	44.9	59.9	74.9	89.8	104.8	119.8	134.8	149.7	164.7	179.7	194.6	254.5
3,550	45.6	60.7	75.9	91.1	106.3	121.5	136.7	151.9	167.0	182.2	197.4	258.2
3,600	46.2	61.6	77.0	92.4	107.8	123.2	138.6	154.0	169.4	184.8	200.2	261.8

(30lb Bag)

Inches- R-Value-	3.0 11.1	4.0 14.8	5.0 18.5	6.0 22.2	7.0 25.9	8.0 29.6	9.0 33.3	10.0 37.0	11.0 40.7	12.0 44.4	13.0 48.1	17.0 62.9
Sq. Ft.	BAG QUANTITY											
500	5.8	7.8	9.7	11.6	13.6	15.5	17.5	19.4	21.3	23.3	25.2	33.0
550	6.4	8.5	10.7	12.8	14.9	17.1	19.2	21.3	23.5	25.6	27.7	36.3
600	7.0	9.3	11.6	14.0	16.3	18.6	21.0	23.3	25.6	27.9	30.3	39.6
650	7.6	10.1	12.6	15.1	17.7	20.2	22.7	25.2	27.7	30.3	32.8	42.9
700	8.1	10.9	13.6	16.3	19.0	21.7	24.4	27.2	29.9	32.6	35.3	46.2
750	8.7	11.6	14.5	17.5	20.4	23.3	26.2	29.1	32.0	34.9	37.8	49.5
800	9.3	12.4	15.5	18.6	21.7	24.8	27.9	31.0	34.1	37.2	40.4	52.8
850	9.9	13.2	16.5	19.8	23.1	26.4	29.7	33.0	36.3	39.6	42.9	56.1
900	10.5	14.0	17.5	21.0	24.4	27.9	31.4	34.9	38.4	41.9	45.4	59.4
950	11.1	14.7	18.4	22.1	25.8	29.5	33.2	36.9	40.5	44.2	47.9	62.7
1,000	11.6	15.5	19.4	23.3	27.2	31.0	34.9	38.8	42.7	46.6	50.4	66.0
1,050	12.2	16.3	20.4	24.4	28.5	32.6	36.7	40.7	44.8	48.9	53.0	69.3
1,100	12.8	17.1	21.3	25.6	29.9	34.1	38.4	42.7	46.9	51.2	55.5	72.6
1,150	13.4	17.8	22.3	26.8	31.2	35.7	40.2	44.6	49.1	53.5	58.0	75.9
1,200	14.0	18.6	23.3	27.9	32.6	37.2	41.9	46.6	51.2	55.9	60.5	79.2
1,250	14.5	19.4	24.2	29.1	33.9	38.8	43.6	48.5	53.3	58.2	63.0	82.4
1,300	15.1	20.2	25.2	30.3	35.3	40.4	45.4	50.4	55.5	60.5	65.6	85.7
1,350	15.7	21.0	26.2	31.4	36.7	41.9	47.1	52.4	57.6	62.9	68.1	89.0
1,400	16.3	21.7	27.2	32.6	38.0	43.5	48.9	54.3	59.8	65.2	70.6	92.3
1,450	16.9	22.5	28.1	33.8	39.4	45.0	50.6	56.3	61.9	67.5	73.1	95.6
1,500	17.5	23.3	29.1	34.9	40.7	46.6	52.4	58.2	64.0	69.8	75.7	98.9
1,550	18.0	24.1	30.1	36.1	42.1	48.1	54.1	60.1	66.2	72.2	78.2	102.2
1,600	18.6	24.8	31.0	37.2	43.5	49.7	55.9	62.1	68.3	74.5	80.7	105.5
1,650	19.2	25.6	32.0	38.4	44.8	51.2	57.6	64.0	70.4	76.8	83.2	108.8
1,700	19.8	26.4	33.0	39.6	46.2	52.8	59.4	66.0	72.6	79.2	85.7	112.1
1,750	20.4	27.2	33.9	40.7	47.5	54.3	61.1	67.9	74.7	81.5	88.3	115.4
1,800	21.0	27.9	34.9	41.9	48.9	55.9	62.9	69.8	76.8	83.8	90.8	118.7
1,850	21.5	28.7	35.9	43.1	50.2	57.4	64.6	71.8	79.0	86.1	93.3	122.0
1,900	22.1	29.5	36.9	44.2	51.6	59.0	66.3	73.7	81.1	88.5	95.8	125.3
1,950	22.7	30.3	37.8	45.4	53.0	60.5	68.1	75.7	83.2	90.8	98.4	128.6
2,000	23.3	31.0	38.8	46.6	54.3	62.1	69.8	77.6	85.4	93.1	100.9	131.9
2,050	23.9	31.8	39.8	47.7	55.7	63.6	71.6	79.5	87.5	95.4	103.4	135.2
2,100	24.4	32.6	40.7	48.9	57.0	65.2	73.3	81.5	89.6	97.8	105.9	138.5
2,150	25.0	33.4	41.7	50.1	58.4	66.7	75.1	83.4	91.8	100.1	108.4	141.8
2,200	25.6	34.1	42.7	51.2	59.8	68.3	76.8	85.4	93.9	102.4	111.0	145.1
2,250	26.2	34.9	43.6	52.4	61.1	69.8	78.6	87.3	96.0	104.8	113.5	148.4
2,300	26.8	35.7	44.6	53.5	62.5	71.4	80.3	89.2	98.2	107.1	116.0	151.7
2,350	27.4	36.5	45.6	54.7	63.8	72.9	82.1	91.2	100.3	109.4	118.5	155.0
2,400	27.9	37.2	46.6	55.9	65.2	74.5	83.8	93.1	102.4	111.7	121.1	158.3
2,450	28.5	38.0	47.5	57.0	66.5	76.0	85.6	95.1	104.6	114.1	123.6	161.6
2,500	29.1	38.8	48.5	58.2	67.9	77.6	87.3	97.0	106.7	116.4	126.1	164.9
2,550	29.7	39.6	49.5	59.4	69.3	79.2	89.0	98.9	108.8	118.7	128.6	168.2
2,600	30.3	40.4	50.4	60.5	70.6	80.7	90.8	100.9	111.0	121.1	131.1	171.5
2,650	30.8	41.1	51.4	61.7	72.0	82.3	92.5	102.8	113.1	123.4	133.7	174.8
2,700	31.4	41.9	52.4	62.9	73.3	83.8	94.3	104.8	115.2	125.7	136.2	178.1
2,750	32.0	42.7	53.3	64.0	74.7	85.4	96.0	106.7	117.4	128.0	138.7	181.4
2,800	32.6	43.5	54.3	65.2	76.0	86.9	97.8	108.6	119.5	130.4	141.2	184.7
2,850	33.2	44.2	55.3	66.3	77.4	88.5	99.5	110.6	121.6	132.7	143.8	188.0
2,900	33.8	45.0	56.3	67.5	78.8	90.0	101.3	112.5	123.8	135.0	146.3	191.3
2,950	34.3	45.8	57.2	68.7	80.1	91.6	103.0	114.5	125.9	137.4	148.8	194.6
3,000	34.9	46.6	58.2	69.8	81.5	93.1	104.8	116.4	128.0	139.7	151.3	197.9
3,050	35.5	47.3	59.2	71.0	82.8	94.7	106.5	118.3	130.2	142.0	153.8	201.2
3,100	36.1	48.1	60.1	72.2	84.2	96.2	108.3	120.3	132.3	144.3	156.4	204.5
3,150	36.7	48.9	61.1	73.3	85.6	97.8	110.0	122.2	134.4	146.7	158.9	207.8
3,200	37.2	49.7	62.1	74.5	86.9	99.3	111.7	124.2	136.6	149.0	161.4	211.1
3,250	37.8	50.4	63.0	75.7	88.3	100.9	113.5	126.1	138.7	151.3	163.9	214.4
3,300	38.4	51.2	64.0	76.8	89.6	102.4	115.2	128.0	140.8	153.6	166.4	217.7
3,350	39.0	52.0	65.0	78.0	91.0	104.0	117.0	130.0	143.0	156.0	169.0	221.0
3,400	39.6	52.8	66.0	79.2	92.3	105.5	118.7	131.9	145.1	158.3	171.5	224.3
3,450	40.2	53.5	66.9	80.3	93.7	107.1	120.5	133.9	147.2	160.6	174.0	227.6
3,500	40.7	54.3	67.9	81.5	95.1	108.6	122.2	135.8	149.4	163.0	176.5	230.9
3,550	41.3	55.1	68.9	82.6	96.4	110.2	124.0	137.7	151.5	165.3	179.1	234.2
3,600	41.9	55.9	69.8	83.8	97.8	111.7	125.7	139.7	153.6	167.6	181.6	237.5

T•A•P™ COVERAGE GUIDE

(BLOWN DRY- 2X6 JOISTS ON 24" CENTERS)

(30lb Bag)

Inches- R-Value-	3.0 11.1	4.0 14.8	5.0 18.5	6.0 22.2	7.0 25.9	8.0 29.6	9.0 33.3	10.0 37.0	11.0 40.7	12.0 44.4	13.0 48.1	17.0 62.9
Sq. Ft.	BAG QUANTITY											
500	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	34.1
550	6.6	8.8	11.0	13.2	15.4	17.6	19.8	22.0	24.2	26.4	28.6	37.5
600	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.0	26.4	28.8	31.3	40.9
650	7.8	10.4	13.0	15.6	18.2	20.8	23.4	26.0	28.6	31.3	33.9	44.3
700	8.4	11.2	14.0	16.8	19.6	22.4	25.2	28.0	30.9	33.7	36.5	47.7
750	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.1	36.1	39.1	51.1
800	9.6	12.8	16.0	19.2	22.4	25.6	28.8	32.1	35.3	38.5	41.7	54.5
850	10.2	13.6	17.0	20.4	23.8	27.2	30.7	34.1	37.5	40.9	44.3	57.9
900	10.8	14.4	18.0	21.6	25.2	28.8	32.5	36.1	39.7	43.3	46.9	61.3
950	11.4	15.2	19.0	22.8	26.6	30.4	34.3	38.1	41.9	45.7	49.5	64.7
1,000	12.0	16.0	20.0	24.0	28.0	32.1	36.1	40.1	44.1	48.1	52.1	68.1
1,050	12.6	16.8	21.0	25.2	29.4	33.7	37.9	42.1	46.3	50.5	54.7	71.5
1,100	13.2	17.6	22.0	26.4	30.9	35.3	39.7	44.1	48.5	52.9	57.3	74.9
1,150	13.8	18.4	23.0	27.6	32.3	36.9	41.5	46.1	50.7	55.3	59.9	78.3
1,200	14.4	19.2	24.0	28.8	33.7	38.5	43.3	48.1	52.9	57.7	62.5	81.7
1,250	15.0	20.0	25.0	30.0	35.1	40.1	45.1	50.1	55.1	60.1	65.1	85.1
1,300	15.6	20.8	26.0	31.3	36.5	41.7	46.9	52.1	57.3	62.5	67.7	88.5
1,350	16.2	21.6	27.0	32.5	37.9	43.3	48.7	54.1	59.5	64.9	70.3	92.0
1,400	16.8	22.4	28.0	33.7	39.3	44.9	50.5	56.1	61.7	67.3	72.9	95.4
1,450	17.4	23.2	29.0	34.9	40.7	46.5	52.3	58.1	63.9	69.7	75.5	98.8
1,500	18.0	24.0	30.0	36.1	42.1	48.1	54.1	60.1	66.1	72.1	78.1	102.2
1,550	18.6	24.8	31.1	37.3	43.5	49.7	55.9	62.1	68.3	74.5	80.7	105.6
1,600	19.2	25.6	32.1	38.5	44.9	51.3	57.7	64.1	70.5	76.9	83.3	109.0
1,650	19.8	26.4	33.1	39.7	46.3	52.9	59.5	66.1	72.7	79.3	85.9	112.4
1,700	20.4	27.2	34.1	40.9	47.7	54.5	61.3	68.1	74.9	81.7	88.5	115.8
1,750	21.0	28.0	35.1	42.1	49.1	56.1	63.1	70.1	77.1	84.1	91.1	119.2
1,800	21.6	28.8	36.1	43.3	50.5	57.7	64.9	72.1	79.3	86.5	93.8	122.6
1,850	22.2	29.6	37.1	44.5	51.9	59.3	66.7	74.1	81.5	88.9	96.4	126.0
1,900	22.8	30.4	38.1	45.7	53.3	60.9	68.5	76.1	83.7	91.3	99.0	129.4
1,950	23.4	31.3	39.1	46.9	54.7	62.5	70.3	78.1	85.9	93.8	101.6	132.8
2,000	24.0	32.1	40.1	48.1	56.1	64.1	72.1	80.1	88.1	96.2	104.2	136.2
2,050	24.6	32.9	41.1	49.3	57.5	65.7	73.9	82.1	90.3	98.6	106.8	139.6
2,100	25.2	33.7	42.1	50.5	58.9	67.3	75.7	84.1	92.6	101.0	109.4	143.0
2,150	25.8	34.5	43.1	51.7	60.3	68.9	77.5	86.1	94.8	103.4	112.0	146.4
2,200	26.4	35.3	44.1	52.9	61.7	70.5	79.3	88.1	97.0	105.8	114.6	149.8
2,250	27.0	36.1	45.1	54.1	63.1	72.1	81.1	90.1	99.2	108.2	117.2	153.3
2,300	27.6	36.9	46.1	55.3	64.5	73.7	82.9	92.2	101.4	110.6	119.8	156.7
2,350	28.2	37.7	47.1	56.5	65.9	75.3	84.7	94.2	103.6	113.0	122.4	160.1
2,400	28.8	38.5	48.1	57.7	67.3	76.9	86.5	96.2	105.8	115.4	125.0	163.5
2,450	29.4	39.3	49.1	58.9	68.7	78.5	88.3	98.2	108.0	117.8	127.6	166.9
2,500	30.0	40.1	50.1	60.1	70.1	80.1	90.1	100.2	110.2	120.2	130.2	170.3
2,550	30.7	40.9	51.1	61.3	71.5	81.7	92.0	102.2	112.4	122.6	132.8	173.7
2,600	31.3	41.7	52.1	62.5	72.9	83.3	93.8	104.2	114.6	125.0	135.4	177.1
2,650	31.9	42.5	53.1	63.7	74.3	84.9	95.6	106.2	116.8	127.4	138.0	180.5
2,700	32.5	43.3	54.1	64.9	75.7	86.5	97.4	108.2	119.0	129.8	140.6	183.9
2,750	33.1	44.1	55.1	66.1	77.1	88.1	99.2	110.2	121.2	132.2	143.2	187.3
2,800	33.7	44.9	56.1	67.3	78.5	89.7	101.0	112.2	123.4	134.6	145.8	190.7
2,850	34.3	45.7	57.1	68.5	79.9	91.3	102.8	114.2	125.6	137.0	148.4	194.1
2,900	34.9	46.5	58.1	69.7	81.3	93.0	104.6	116.2	127.8	139.4	151.0	197.5
2,950	35.5	47.3	59.1	70.9	82.7	94.6	106.4	118.2	130.0	141.8	153.7	200.9
3,000	36.1	48.1	60.1	72.1	84.1	96.2	108.2	120.2	132.2	144.2	156.3	204.3
3,050	36.7	48.9	61.1	73.3	85.5	97.8	110.0	122.2	134.4	146.6	158.9	207.7
3,100	37.3	49.7	62.1	74.5	86.9	99.4	111.8	124.2	136.6	149.0	161.5	211.1
3,150	37.9	50.5	63.1	75.7	88.3	101.0	113.6	126.2	138.8	151.4	164.1	214.6
3,200	38.5	51.3	64.1	76.9	89.7	102.6	115.4	128.2	141.0	153.9	166.7	218.0
3,250	39.1	52.1	65.1	78.1	91.1	104.2	117.2	130.2	143.2	156.3	169.3	221.4
3,300	39.7	52.9	66.1	79.3	92.6	105.8	119.0	132.2	145.4	158.7	171.9	224.8
3,350	40.3	53.7	67.1	80.5	94.0	107.4	120.8	134.2	147.6	161.1	174.5	228.2
3,400	40.9	54.5	68.1	81.7	95.4	109.0	122.6	136.2	149.8	163.5	177.1	231.6
3,450	41.5	55.3	69.1	82.9	96.8	110.6	124.4	138.2	152.0	165.9	179.7	235.0
3,500	42.1	56.1	70.1	84.1	98.2	112.2	126.2	140.2	154.3	168.3	182.3	238.4
3,550	42.7	56.9	71.1	85.3	99.6	113.8	128.0	142.2	156.5	170.7	184.9	241.8
3,600	43.3	57.7	72.1	86.5	101.0	115.4	129.8	144.2	158.7	173.1	187.5	245.2

T.A.P.
PEST CONTROL
INSULATION

HOME PHONE _____ BUSINESS PHONE _____ INSPECTED BY _____

[illegible]

ADDITIONAL SERVICES

Type Of Insulation	Existing Inches	R-Value per inch	Existing R-Value	Additional R-Value Proposed	Sq. Ft. x price per square foot	Additional Services	TOTAL
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					

PEST CONTROL INSULATION, LLC
5285 Mountain Center Plaza
Suite 100
Lula, GA 30554

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 other arthropods) 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 C739-08. 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-739-08. 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/cm²

Smoldering Combustion: <15%

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 C739-08 to be 1.45 lb/ft³.

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 C739-08 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



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 12.5% 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 30 Lb. Bags installed: _____
Crawl/Ceiling:	Square Feet: _____	R-Value: _____	# of 30 Lb. Bags installed: _____
Walls:	Square Feet: _____	R-Value: _____	# of 30 Lb. Bags installed: _____

Pre-Existing Attic Insulation: Type _____ Inches _____ Old R= _____ **NEW R-VALUE=** _____



PEST CONTROL INSULATION SYSTEMS
5285 Mountain Center Plaza Suite 100, Lula, GA 30554
Toll Free 866-284-7247
www.TAPinsulation.com



Tools and Supplies Checklist for Attics

Items below were included in your order

- | | | |
|--|--|--|
| ○ Hammer Stapler | ○ (6) Hose Clamps | ○ (2) Connectors |
| ○ (2) 100ft Extension Cords (10-3 Cord with 15 Amp plug) | ○ (3) Sections 50' Blowing Hose | ○ Attic Rulers |
| ○ Hammer Staples | ○ Polyvent - Styrofoam | ○ Cardboard Baffles |
| ○ Tin/Insulshield (14" x 24' roll) | ○ Netting | ○ Recessed Light Cover 12" x 12" x 14" |
| | ○ Recessed Light Cover 10" x 10" x 12" | |

Items below are a *must* have for training

- | | | |
|-----------------------------------|--------------------------------|--------------------------------|
| ○ Shop Vacuum | ○ Garbage Can (30 Gal) | ○ Garbage Bags (30 Gal) |
| ○ Plastic Scoop Shovel | ○ Regular Broom | ○ Utility Knife & Extra Blades |
| ○ 8' Fiberglass ladder – Type 1 | ○ Cloth Straps to Secure Equip | ○ Utility Light & Cord |
| ○ (3) 32" x 48" Pieces of Plywood | ○ Regular Broom | ○ 50' Measuring Tape |
| ○ 3 Cell Flashlight & Batteries | ○ TAP Insulation | ○ Duct Tape |
| ○ N95 Respirator/Dust Masks | ○ Safety Glasses/Goggles | ○ Chemical Resistant Gloves |
| ○ Tear Resistant Coveralls | ○ Knee Pads | ○ Hard Hats/Bump Hats |

Items below are suggested tool box items

- | | | |
|--------------------------------|----------------------------|-----------------------------------|
| ○ Air Gun w/Quick Release hose | ○ Air Tank (For Netting) | ○ Foam Gun |
| ○ Caulk Gun | ○ Drill & Drill Bits | ○ Wrenches (1/4" – 7/8") |
| ○ Allen Wrench Set | ○ Channel Lock Wrench | ○ Socket Wrenches |
| ○ 1/4" Nut Driver | ○ Screw Driver | ○ Pliers – 8" Adjustable |
| ○ 16 Oz Hammer | ○ Pry Bar | ○ Tin Snips – Straight |
| ○ Wire Crimping Tool | ○ Wire Cutters | ○ Load Leveler |
| ○ Electric Leaf Blower | ○ 100' Garden Hose | ○ TSS System |
| ○ Nozzle w/Shut off Valve | ○ Measuring Wheel | ○ Hand Held Calculator |
| ○ Yard Stick | ○ Voltage Tester & Manual | ○ Scaffolding |
| ○ Power Center | ○ Drop Cloths (2) 9' x 12' | ○ Canvas |
| ○ Fiberglass 15" R-19 | ○ Attic Access Covers | ○ Poly/Runner (Carpet Protection) |
| ○ Caulk | ○ Foam | ○ Utility Knife Blades |
| ○ Electrical Tape | ○ Teflon Tape | ○ First Aid Kit |
| ○ Air Gun Staples | ○ Hand Lamp | ○ Water/Sports Drink |
| ○ Hand Towels/Cloths | ○ Cooler with Ice | ○ Fuses for Transformers |
| ○ Disposable Slip on Booties | ○ Digital Camera w/Flash | ○ Set of Screws |
| ○ Electrical Terminals | ○ Chain & Master Link | ○ Rubber AirLock Seals |
| ○ Wire Nuts | ○ Quick Release 3/8" Hose | |
| ○ 10" Interlock Blower Hose | ○ Adaptors | |