

PEST CONTROL INSULATION SYSTEMS

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**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. T•A•P's R-factor of 3.7 is a 48% increase over the U.S. Department of Energy's allowance of 2.5 R for loose-fill 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/cm²

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/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 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