

InCide[®] PEST CONTROL INSULATION

TECHNICAL DATA SHEET

Product Information: InCide[®] Pest Control Cellulose Insulation is a versatile wood fiber cellulose insulation product made of natural, organic wood fibers treated with a permanent fire retardant (borate) chemical.

R-Value: The laboratory measure of a material's ability to resist heat flow is called R-Value. The R-Value of InCide[®] Pest Control Cellulose Insulation is 3.7 per inch. Wall cavity spray applications fill all voids and cracks, forming a monolithic seal and will virtually eliminate air infiltration. Attic applications form a blanket of interlocking fibers creating the same benefit. The R-Value of InCide[®] Pest Control Cellulose Insulation will remain constant over lower temperature ranges, while the R-Value of fiberglass insulation is reduced as attic temperatures decline.

Air Infiltration: Nearly as important as R-value is air infiltration, which will determine the thermal performance of a building. InCide[®] Pest Control Cellulose Insulation creates a true thermal break, making the transmission of air from one side of a wall to another virtually impossible. In contrast, fiberglass behaves similar to an air filter allowing the passage of cold or hot air. Numerous studies have shown that a 4% gap in a 3.5" sidewall will reduce thermal resistance by a minimum of 35%. These exposed areas allow air to infiltrate the home, seriously impairing the R-Value of the insulation.

Pest Control: InCide[®] Pest Control Cellulose Insulation is registered with the Environmental Protection Agency to kill various insects upon contact (EPA Reg. No. 44757-4-59737; Est No. 59737-MO-001). Specific insects killed are drywood and subterranean termites, centipedes, booklice, silverfish, cockroaches, millipedes, ants, crickets, sowbugs and earwigs.

Fungus Control: InCide[®] Pest Control Cellulose Insulation is manufactured with two borate fire retardants (Board Defense and Zone Defense). The addition of Board Defense makes InCide[®] Pest Control Cellulose Insulation mold and mildew resistant.

Sound Control: The spray-applied blanket created by InCide[®] Pest Control Cellulose Insulation provides a sound barrier by sealing off potential sound transmission points in the wall. Its high-density fibers naturally absorb noise. It is highly recommended for interior walls such as bathrooms, kitchens, laundry rooms and between floors in 2-story/basement homes.

Fire Protection: InCide[®] Pest Control Cellulose Insulation is classified as a Class 1 Building material. The active ingredient, borate, provides fire protection for the lifetime of the building structure. A wall structure insulated with InCide[®] Pest Control Cellulose Insulation will meet the criteria for a one hour fire rating.

Environmental Impact: InCide[®] Pest Control Cellulose Insulation is a non-toxic, natural wood fiber insulation product made from 100% recycled paper. It does not contain ammonia, formaldehyde, asbestos or man-made fibers. InCide[®] Pest Control Cellulose Insulation requires very little energy in its manufacturing process. Conversely, man-made mineral fiber utilizes significantly less recycled material and consumes large quantities of energy in its manufacture.

Product Warranty: FTI warrants that InCide[®] Pest Control Cellulose Insulation will not deteriorate and will maintain its ability to prevent fungus germination under normal and proper use for the lifetime of the building structure. Its installation will be free from defects if professionally installed according to instructions.



FIBERLITE TECHNOLOGIES, INC.

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SUBMITTAL DATA SHEET

The following ASTM tests were conducted by R&D Services, Inc. in accordance with applicable ASTM Standards to complete the data required for ASTM C739 (Loose Fill Cellulose Insulation) and ASTM C1149 Type II (Self Supported Spray Applied Cellulose Insulation).

ASTM C739-05	Complete/Pass
ASTM C518	3.7 R per inch
ASTM C1149-02 Type II	Complete/Pass
ASTM E84-05	Flame Spread Index: 15 Smoke Development Index: 10
ASTM E970	Pass

Meets the Following ASTM C739-05 Characteristics:

FLAMMABILITY CHARACTERISTICS:

Critical Radiant Flux:	Greater than or equal to 0.12 W/cm ²
Smoldering Combustion:	Less than or equal to 15.0%

ENVIRONMENTAL CHARACTERISTICS:

Corrosiveness:	Acceptable
Fungi Resistance:	Acceptable

PHYSICAL CHARACTERISTICS:

Density (Settled):	1.77 lb./ft. ³
Moisture Vapor Absorption:	Acceptable
Odor Emission:	Acceptable

InCide® Pest Control Insulation complies with CPSC Standard HH-I-515E, CPSC 16CFR Part 1209, CPSC 16CFR Part 1404 and UM-80 Guidelines (HUD, FHA). This product is formulated using an all-borate formula and is registered with the Environmental Protection Agency (EPA Reg. No. 44757-4-59737 and Est. No. 59737-MO-001).

The Sound Absorption Coefficient (SAC) will vary with wall design, materials and applied density of the cellulose insulation. The Sound Transmission Classification (STC) rating will vary from 44 to 68 depending upon wall construction.

The Noise Reduction Coefficient (NRC) remains constant with this type of insulation. The NRC rating will vary from .75 to .82 of 1.0 depending on wall design, materials and applied density of the cellulose insulation.

InCide® Pest Control Insulation is formulated with 100% borate fire retardant for fire resistance and to protect the material from insect infestation and fungal growth (mold and mildew). Therefore, it contains no additives that are harmful to the environment, humans or pets, and will not off-gas or emit harmful chemicals or odors.



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