

FIBER-LITE & FIBER-LITE PLUS

TECHNICAL DATA SHEET

Product Information: FIBER-LITE and FIBER-LITE PLUS are versatile wood fiber cellulose insulation products made of natural, organic wood fibers treated with a permanent fire retardant (borate) chemical. FIBER-LITE PLUS is manufactured with a dry adhesive to enhance the bonding properties for spray applied applications. The high-tack adhesive is activated with atomized water, forming a stabilized mache´ to prevent settling of the insulation.

R-Value: The laboratory measure of a material's ability to resist heat flow is called R-Value. The R-Value of FIBER-LITE 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 FIBER-LITE 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. FIBER-LITE 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.

Fungus Control: FIBER-LITE is manufactured with two borate fire retardants (Board Defense and Zone Defense). Board Defense is a borate chemical that creates an environment within the insulation material unsuitable for the germination of fungus (mold and mildew).

Pest Control: Zone Defense is a borate chemical that protects the insulation material from targeted insect infestation.

Sound Control: The spray-applied blanket created by FIBER-LITE provides a sound barrier wall 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.

Environmental Impact: FIBER-LITE 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. FIBER-LITE 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 FIBER-LITE 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

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

Both FIBER-LITE and FIBER-LITE PLUS comply with CPSC Standard HH-1-515E, CPSC 16CFR Part 1209, CPSC 16CFR Part 1404 and UM-80 Guidelines (HUD, FHA). These products are formulated using an all-borate formula.

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.

FIBER-LITE and FIBER-LITE PLUS are formulated with 100% borate fire retardant for fire resistance and to protect the material from insect infestation and fungal growth (mold and mildew). Therefore, they contain 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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