

# “WAL-MAT”

## TECHNICAL DATA SHEET

**Product Information:** “WAL-MAT” is a cardboard-based cellulose insulation product specifically designed for wall cavity spray applications. “WAL-MAT” is manufactured with natural, organic wood fibers, a permanent fire retardant and a dry adhesive to further enhance its bonding characteristics. This high-tack adhesive is activated with atomized water, forming a stabilized maché 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 “WAL-MAT” is 3.7 per inch. Wall cavity spray applications fill all voids and cracks, forming a monolithic seal and will virtually eliminate air infiltration. The R-Value of “WAL-MAT” 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. “WAL-MAT” 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:** “WAL-MAT” effectively controls the potential for fungal growth and actively kills

mold spores. It has been scientifically tested by Dr. Jose Herrera at Truman State University, Kirksville, MO as a highly effective fungicide against commonly found mold.

**Sound Control:** The spray-applied blanket created by “WAL-MAT” provides a sound barrier wall by sealing off potential sound transmission points in the wall. The high-density fibers naturally absorb noise and are highly recommended for interior walls such as bathrooms, kitchens, laundry rooms and between floors in 2-story/basement homes.

**Fire Protection:** “WAL-MAT” is classified as a Class 1 Building material and is treated for fire protection for the lifetime of the building structure. A wall structure insulated with “WAL-MAT” will meet the criteria for a one hour fire rating.

**Environmental Impact:** “WAL-MAT” is a non-toxic, natural wood fiber insulation made from 100% recycled paper. It does not contain ammonia, formaldehyde, asbestos or man-made fibers. “WAL-MAT” requires very little energy during manufacturing. Conversely, man-made mineral fiber utilizes significantly less recycled material and consumes large quantities of energy in its manufacture.

**Product Warranty:** FTI warrants that “WAL-MAT” will not deteriorate and will maintain its ability to prevent fungus germination under normal and proper use for the lifetime of the building structure. Installation will be free from defects if professionally installed according to instructions.



FIBERLITE TECHNOLOGIES, INC.

3605 E. 25<sup>TH</sup> STREET, JOPLIN, MO 64804

800-641-4296

[www.fiberlitetech.com](http://www.fiberlitetech.com)

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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 C-739 (Loose Fill Cellulose Insulation) and ASTM C-1149 Type II (Self Supported Spray Applied Cellulose Insulation).

ASTM C-739-05	Complete/Pass
ASTM C-518	3.7 R per inch
ASTM C-1149-02 Type II	Complete/Pass
ASTM E-84-05	Flame Spread Index: 15 Smoke Development Index: 10
ASTM E-970	Pass

### Meets the Following ASTM C-739-05 Characteristics:

#### FLAMMABILITY CHARACTERISTICS:

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

#### ENVIRONMENTAL CHARACTERISTICS:

Corrosiveness:	Acceptable
Fungi Resistance:	Acceptable

#### PHYSICAL CHARACTERISTICS:

Density (Settled):	1.54 lb./ft. <sup>3</sup>
Moisture Vapor Absorption:	Acceptable
Odor Emission:	Acceptable

“WAL-MAT” complies with CPSC Standard HH-1-515E, CPSC 16CFR Part 1209, 16CFR Part 1404 and UMB-80 Guidelines (HUD, FHA).

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.

“WAL-MAT” is formulated with permanent additives for fire resistance and prevention of fungal growth (mold and mildew). “WAL-MAT” will not off-gas or emit harmful chemicals or odors.



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