



# WAL-MAT CELLULOSE INSULATION 3-PART SPECIFICATION

07200 Thermal Protection  
Section 07210 Building Insulation  
Sub-Section 07229 Sprayed Insulation

## 1. General

**1.1** This specification provides information regarding the pneumatic application of WAL-MAT Cellulose Insulation in walls. WAL-MAT Cellulose Insulation provides superior R-Value (resistance to heat flow) for thermal applications, sound control for acoustical treatments, and fire control in walls of residential and commercial construction.

**1.2 Test Standard.** All cellulose insulation sold in the U.S. must conform to CPSC Standard 16CFR Parts 1209 and 1404. In addition, WAL-MAT Cellulose Insulation meets all the test requirements of ASTM C739-05, E-84-05, E-119, C1149-02 Type II, and C1374.

**1.3 Submittals.** Submit WAL-MAT Cellulose Insulation product literature, samples, and installation instructions for their application. Manufacturer's written certification that product contains no asbestos, fiberglass, or other man-made mineral fibers, and free of ammonium based additives.

**1.4 Quality Assurance.** Manufacturer must subscribe to independent laboratory follow-up inspections. Manufacturer will perform in-house test on finished product collected from manufacturing line. Manufacturer shall provide a certificate of compliance upon request.

**1.5 Delivery, Storage and Handling.** Deliver in original, unopened containers bearing name of manufacturer, product

identification, and reference testing information. Store materials in a dry area, off the ground, and under cover. Protect insulation from physical damage and from becoming wet, soiled, or covered with ice or snow.

**1.6 Limitations.** Avoid heating the work area with propane or kerosene space heaters. Use electric heaters and ventilation to avoid excessive moisture addition to construction materials.

## 2. Products

**2.1 Acceptable Manufacturer:**  
Fiberlite Technologies, Inc.  
3605 E. 25<sup>th</sup> Street  
Joplin, MO 64804  
Phone: (800) 641-4296

**2.2 Material.** WAL-MAT Cellulose Insulation is manufactured from recycled newsprint with a minimum of 80% paper fiber content. The fibers are treated with sodium polyborate to create permanent flame resistance. WAL-MAT Cellulose Insulation resists the flow of heat and air infiltration, due to its density and method of installation. WAL-MAT Cellulose Insulation does not contain asbestos, mineral fibers, formaldehyde or ammonium based additives.

**2.3 Standards.** WAL-MAT Cellulose Insulation meets all cellulose insulation testing standards. It also meets the requirements for UMB-80 Guidelines for FHA, VA and HUD projects.

## 2.4 Material Characteristics.

### 2.4.1 Thermal Resistance:

3.7 R-Value/in.

**2.4.2 Settled Density:** The maximum density after long-term settling of dry application is 1.54 lb/ft<sup>3</sup>.

### 2.4.3 Surface Burning Characteristics:

Products meet ASTM E-84-05 in accordance with ASTM C1149-02.

**2.4.3a Flame Spread:** 15 (less than 25 is required)

**2.4.3b Smoke Developed:** 10 (less than 400 is required)

**2.4.4 Flammability:** Product tested at minimum of 4" thickness, Class 1(A) conforms to ASTM C-739-05.

**2.4.4a Smoldering Combustion:** Less than or equal to 15%.

**2.4.4b Critical Radiant Flux:** Greater than or equal to 0.12 watts/cm<sup>2</sup>.

**2.4.5 Fire Resistance:** WAL-MAT Cellulose Insulation will not reduce the one (1) hour rating in fire rated assemblies in accordance to ASTM E-119.

**2.4.6 Sound Control:** WAL-MAT Cellulose Insulation provides significant noise reduction in walls and between floors. The Sound Transmission Classification (STC) rating will vary from 44 to 68 depending upon wall construction. The Noise Reduction Coefficient (NRC) remains constant for the material. The NRC rating will vary from .75 to .82 out of 1.0 depending on wall design, material and installed density of the cellulose insulation.

### 2.4.7 Environmental Characteristics:

WAL-MAT Cellulose Insulation is non-toxic, will not irritate normal skin, will not off-gas during or after installation, will not attract insects, and will not adversely af-

fect other building materials. When in contact with steel, copper, aluminum, or galvanized materials, WAL-MAT Cellulose Insulation also passes all required standards for corrosion, odor emission, moisture absorption, and fungi resistance per ASTM C739.

**2.4.8 Building Codes:** Properly installed WAL-MAT Cellulose Insulation meets the local building code requirements for thermal insulating materials set forth in IBC, CABO, ICC(BOCA, ICBO, SBCCI), IECC, IRC and the Model Energy Code.

## 3. Execution

**3.1 Examination.** Examine surface to be insulated for voids, projections, foreign substances, proper caulking at plates or other areas which might affect the integrity of a complete wall system. Confirm that all rough plumbing, electrical conduit and boxes and other items are installed and tested prior to applying insulation. Do not proceed until unsatisfactory conditions are corrected.

**3.2 Preparation.** Verify adhesion requirements and compatibility of all surfaces to receive insulation. Provide drop cloths or other coverings for areas that are not intended to receive insulation. Coordinate installation of insulation with the work of other trades.

**3.3 Installation.** Install insulation according to manufacturer's recommendation. Install material at a thickness to completely fill each cavity. Remove overspray from project site. Cure insulation with natural or mechanical ventilation for a minimum of 24 hours or until the moisture level of the material is less than 25%.

-END OF SECTION-



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