



FIBER-LITE AND FIBER-LITE PLUS CELLULOSE INSULATION 3-PART SPECIFICATION

07200 Thermal Protection

Section 07210 Building Insulation

Sub-Section 07223 Loose-Fill Insulation

Sub-Section 07226 Blown Insulation

Sub-Section 07229 Sprayed Insulation

1. General

1.1 This specification provides information regarding the pneumatic application of FIBER-LITE Cellulose Insulation in attics and walls. FIBER-LITE Cellulose Insulation (attic and floors) and FIBER-LITE PLUS Cellulose Insulation (walls) provide superior R-Value (resistance to heat flow) for thermal applications, sound control for acoustical treatments, and fire control in attics, floors, and 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, FIBER-LITE and FIBER-LITE PLUS 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 FIBER-LITE and FIBER-LITE PLUS 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. 25th Street
Joplin, MO 64804
Phone: (800) 641-4296

2.2 Material. FIBER-LITE and FIBER-LITE PLUS Cellulose Insulation are manufactured from recycled newsprint with a minimum of 80% paper fiber content. The fibers are treated with sodium polyborate to create permanent flame resistance. FIBER-LITE and FIBER-LITE PLUS Cellulose Insulation resist the flow of heat and air infiltration, due to their density and methods of installation. FIBER-LITE and FIBER-LITE PLUS Cellulose Insulation do not contain asbestos, mineral fibers, formaldehyde or ammonium based additives.

2.3 Standards. FIBER-LITE and FIBER-LITE PLUS Cellulose Insulation meet all cellulose insulation testing standards. They 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/ft³.

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/cm².

2.4.5 Fire Resistance: FIBER-LITE and FIBER-LITE PLUS 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: FIBER-LITE and FIBER-LITE PLUS Cellulose Insulation provide 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: FIBER-LITE and FIBER-LITE PLUS Cellulose Insulation are non-toxic, will not irritate normal skin, will not off-gas during or after installation, and will not adversely

affect other building materials. When in contact with steel, copper, aluminum, or galvanized materials, FIBER-LITE and FIBER-LITE PLUS Cellulose Insulation also pass all required standards for corrosion, odor emission, moisture absorption, and fungi resistance per ASTM C739.

2.4.8 Building Codes: Properly installed FIBER-LITE and FIBER-LITE PLUS Cellulose Insulation meet 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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