

MANUFACTURER

Central Fiber Corporation
4814 Fiber Lane
Wellsville, KS 66092
Phone: (800) 654-6117
Fax: (785) 883-4429



SECTION 07210
BUILDING INSULATION

PART I—GENERAL

1.01 Summary

- A. General Requirements
 - 1. Drawings and general provisions of the contract, including General and Supplementary Conditions and Division I Specification Sections, apply to this section.
- B. Section Includes
 - 1. Self-supported spray-applied thermal cellulose insulation.
 - 2. Stabilized thermal cellulose insulation.
 - 3. Loose fill thermal cellulose insulation.

1.02 References

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM C739 (Standard Specification for Cellulosic Fiber [wood base] Loose-fill Thermal Insulation).
 - 3. The General Services Administration purchasing specification: HH-I-515E (conforms to ASTM C739 requirements).
 - 4. ASTM E84 in accordance with requirements of ASTM C1149-02 (Standard Specification for Self-Supported Spray-Applied Cellulosic Thermal Insulation).
- B. Consumer Products Safety Commission Safety Standard: 16 CFR Part 1209, 1404
- C. Federal Trade Commission R-Value Rule: 16 CFR Part 0460

1.03 Submittals

- A. Manufacturer shall submit product data and certification that the product meets or exceeds specified requirements.
- B. Manufacturer shall submit certification that the product contains no asbestos, glass fibers, or other man-made mineral fibers.

1.04 Quality Assurance

- A. Manufacturer shall furnish evidence of conformance with Consumer Products Safety Commission (CPSC) Interim Safety Standard 16 CFR Part 1209 and with applicable ASTM C739 standards for cellulose insulation.
- B. Manufacturer shall perform in-house testing on the finished product taken directly from the manufacturing line every hour during production time.
- C. Manufacturer shall warrant product against all manufacturing defects.

1.05 Delivery, Storage and Handling

- A. Material shall be delivered in original, unopened containers bearing the manufacturer and product name, with conformance to the label requirements of Consumer Products Safety Commission Safety Standard: 16 CFR Part 1209, 1404 and with applicable ASTM C739 standards for cellulose insulation.
- B. Store the material in a dry area and protect from the weather.
- C. Discard all damaged materials.

Part 2—Products

2.01 Acceptable Manufacturers:

- A. Central Fiber Corporation
4814 Fiber Lane
Wellsville, KS 66092
Phone: (800) 654-6117
Fax: (785) 883-4429

2.02 Materials:

- A. Xcell® Cellulose Insulation
 1. Product shall conform to Consumer Products Safety Commission (CPSC), Interim Safety Standard 16 CFR Part 1209.
 2. Product shall be tested in accordance to ASTM E84 or by Underwriters Laboratories method U.L. 723.
 3. Product shall be tested at a minimum of 4” thickness, Class 1 (A) with conformance to ASTM C739
 - a. Smoldering Combustion (tested at density of 1.4 pounds per cubic foot): Less than or equal to 15.0%
 - b. Critical Radiant Flux: Greater than or equal to 0.12 W/cm²
 - e. Corrosiveness: Acceptable
 - f. Fungi Resistance: Acceptable
 - g. Moisture Absorption: Acceptable
 - h. Odor Emission: Acceptable
 - i. R-Value: 3.8 per inch
 4. Product shall conform to ASTM E84 in accordance with ASTM C1149
 - a. Flame Spread: 5
 - b. Smoke Developed: 35

Part 3—Execution

3.01 Examination

- A. Examine surfaces to be insulated. Verify that there are no voids, projections, foreign substances, or other items which might interfere with the integrity of the complete wall system.
- B. Assure that all rough plumbing, electrical conduit, outlet boxes, and other items required to penetrate the spray-applied insulation are installed prior to the application of the insulation.
- C. Examine the floor around areas to be insulated to ensure that all loose, foreign objects have been removed.
- D. Proceed with application after unsatisfactory conditions are corrected.

3.02 Preparation

- A. Block all openings that would permit the material to flow into undesired areas.
- B. Coordinate installation of spray-applied insulation with the work of other trades.

3.03 Installation

- A. Install insulation at a thickness that completely fills each cavity.
- B. Install insulation according to the manufacturer’s recommendations, and/or ASTM C1015.
- C. Remove all overspray from project site after cavities have been filled and scrubbed to desired thickness.
- D. Cure insulation with continuous natural or mechanical ventilation.
- E. Comply with local building code requirements.
- F. Manufacturer and installer shall conform to the requirements of FHA, VA and HUD, when applicable.

3.04 Protection

- A. Protect insulation from damage during construction.
- B. Cover insulation with drywall, wood, or other finish wall panels.