

## PART 1 – GENERAL

### 1.01 Section Includes

- A. Sprayed cellulose thermal insulation.
- B. Sprayed cellulose acoustical insulation.

### 1.02 Related Items

- A. Clips, hangers, supports, sleeves and other attachments to spray bases are to be placed by other trades prior to the application of sprayed insulation.
- B. Ducts, piping, conduit or other suspended equipment shall not be positioned until after the application of sprayed insulation.
- C. Roof penetrations to be installed prior to application.
- D. Roof traffic and construction to be done prior to application.

### 1.03 Quality Assurance

- A. Manufacturer must have a current Underwriters Laboratories (UL) Code Evaluation Report.
- B. Manufacturer must be in compliance with the 2009 and 2012 International Building Code.
- C. Manufacturer must be ISO 9001:2015 Certified.
- D. Applicator: Licensed by manufacturer.
- E. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratories and Factory Mutual. Each bag shall be labeled accordingly.
- F. Mock-up: Apply a 100 square foot representative sample to be reviewed by the Architect and/or Owner prior to proceeding.

### 1.04 Submittals

- A. Submit product data that the product meets or exceeds the following specified requirements.
  - 1. Bond strength shall be greater than 150 psf per ASTM E 736.
  - 2. Product shall be Class 1 Class A per ASTM E 84/ UL 723.  
Flame Spread Index: 0 Smoke Development: 10
  - 3. Bond Deflection per ASTM E 759: 1" Deflection in 10' Span – No Spalling or Delamination.
  - 4. R-Value to be 3.9 per inch per ASTM C 518.
  - 5. Comply with 2018 IBC Section 803.14 stability requirements for interior finishes.
  - 6. Meet ASTM C 1149
- B. Minimum Fiber Recycled Content to be 80%.
- C. Material must have a publicly available Health Product Declaration (HDP) evaluated to 1,000 PPM.
- D. Written certification that the material does not contain any asbestos or asbestos containing materials.
- E. Material must not contain added Urea-Formaldehyde Resins.
- F. Material must not contain any glass fibers or any other man-made fibers.

### 1.05 Delivery, Storage and Handling

- A. Deliver in original, unopened containers bearing name of manufacturer and product identification.
- B. Store materials dry, off ground, and under cover.
- C. Protect liquid adhesive from freezing.
- D. Water to be potable.

## PART 2 – PRODUCTS

### 2.01 Acceptable Manufacturers

- A. Isolatek International  
41 Furnace Street  
Stanhope, NJ 07874  
(973)347-1200  
[www.isolatek.com](http://www.isolatek.com)



Isolatek International provides passive fireproofing materials under the CAFCO® and FENDOLITE® trademarks throughout the Americas and under the ISOLATEK® trademark throughout the world.

800.631.9600 or 973.347.1200  
[www.isolatek.com](http://www.isolatek.com) | [technical@isolatek.com](mailto:technical@isolatek.com)



**2.02 Materials**

- A. CAFCO Cellu-Shield Spray-Applied Cellulose Insulation System
  - 1. Each bag of material must be label “CAFCO CELLU-SHIELD”
  - 2. Each drum of material must be labeled “CAFCO CELLU-SHIELD Adhesive”
  - 3. Color shall be from Manufacturer’s standard color chart.
  - 4. Comply with local Building Code requirements.

**PART 3 – EXECUTION****3.01 Examination**

- A. Examine surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
- B. Verify surfaces to receive spray insulation to determine if priming/sealing is required to ensure bonding and/or to prevent discoloration caused by migratory stains.

**3.02 Preparation**

- A. Provide masking, drop cloths or other satisfactory coverings for materials/surfaces that are not to receive insulation to protect from over-spray.
- B. Coordinate installation of the sprayed cellulose fiber with work of other trades.
- C. Prime surfaces as required by manufacturer’s instructions or as determined by examination.

**3.03 Installation**

- A. Install spray applied insulation according to manufacturer’s recommendations.
- B. Install spray applied insulation to achieve an average R-Value of \_\_\_\_.
- C. Install spray applied insulation to achieve an average NRC of \_\_\_\_.
- D. Cure insulation with continuous natural or mechanical ventilation at minimum rate of 4 complete air exchanges per hour.
- E. Remove and dispose of over-spray in accordance with local guidelines.

END OF SECTION



Isolatek International provides passive fireproofing materials under the CAFCO<sup>®</sup> and FENDOLITE<sup>®</sup> trademarks throughout the Americas and under the ISOLATEK<sup>®</sup> trademark throughout the world.

800.631.9600 or 973.347.1200  
[www.isolatek.com](http://www.isolatek.com) | [technical@isolatek.com](mailto:technical@isolatek.com)

