

**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.
  - 3. Non-corrosive per ASTM C 739.
  - 4. Bond Deflection per ASTM E 759: 6" Deflection in 10' Span – No Spalling or Delamination.
  - 5. R-Value to be 3.9 per inch per ASTM C 518.
  - 6. Comply with 2009 IBC Section 803.10 stability requirements for interior finishes.
  - 7. Meet ASTM C 1149
- B. Minimum Fiber Recycled Content to be 80%.
- C. Cannot contain any added Urea-Formaldehyde Resins.

**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)

**2.02 Materials**

- A. CAFECO Cellu-Shield
  - 1. Color shall be from Manufacturer's standard color chart.
  - 2. 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 3.9 per inch.
- C. Install spray applied insulation to achieve an average NRC of \_\_\_\_.

CAFCO Cellu-Shield ASTM C423 on Solid Backing							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1"	0.05	0.22	0.58	0.96	0.98	1.08	0.70
1.5"	0.14	0.41	0.85	1.03	1.00	1.03	0.80
2"	0.18	0.73	1.12	1.09	1.01	1.00	1.00
5"	0.93	1.28	1.02	1.00	0.97	1.00	1.05

- 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.

**3.04 Protection**

- A. Protect finished installation under provision of Division 1.

END OF SECTION



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

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