

**Section 07 21 29**  
**K-13 Spray-On Systems**  
**Specification Guide 06/11**

**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.

**1.03 Quality Assurance**

- A. Manufacturer must have a current listing with ICC.
- B. Manufacturer must be in compliance with the 2006 International Building Code.
- C. Manufacturer must be ISO 9001:2008 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. R-Value shall be 3.8 per inch per ASTM C 518.
  - 2. Bond strength shall be greater than 100 psf per ASTM E 736.
  - 3. Product shall be Class 1 Class A per ASTM E 84/ UL 723.
  - 4. Non-corrosive per ASTM C 739.
  - 5. Bond Deflection per ASTM E 759: 6" Deflection in 10' Span – No Spalling or Delamination.
  - 6. Comply with IBC 803.3/2009 IBC 803.10 stability requirements for interior finishes.
- B. Manufacturer's written certification that product contains no asbestos, fiberglass or other man-made mineral fibers.
- C. Copy of manufacturer's ISO 9001:2008 Certification.
- D. Minimum Fiber Recycled Content to be 75%.
- E. Cannot contain any Urea-Formaldehyde Resins.

**1.06 Delivery, Storage and Handling**

- A. Deliver in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.
- B. Store materials dry, off ground, and under cover.
- C. Protect liquid adhesive from freezing.

**Section 07 21 29**  
**K-13 Spray-On Systems**  
**Specification Guide 06/11**

**PART 2 – PRODUCTS**

**2.01 Acceptable Manufacturers**

- A. International Cellulose Corporation  
12315 Robin Boulevard  
Houston, Texas 77045  
(713) 433-6701 or (800) 444-1252  
FAX: (713) 433-2029  
[www.spray-on.com](http://www.spray-on.com)                      [icc@spray-on.com](mailto:icc@spray-on.com)
- B. For approved applicators contact ICC at 800-444-1252.

**2.02 Materials**

- A. K-13 Spray-On-Systems.
  - 1. Color shall be from Manufacturer's standard color chart.
  - 2. Comply with local Building Code requirements.
  - 3. Material to have been tested in accordance with ASTM E 1042. Testing laboratory must be NVLAP accredited.

**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 insure 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.

**Section 07 21 29**  
**K-13 Spray-On Systems**  
**Specification Guide 06/11**

**3.03 Installation**

- A. Thickness will be determined as the minimum thickness measured as per ASTM E-605 field test procedure.
- B. Install spray applied insulation according to manufacturer's recommendations.
- C. Install spray applied insulation to achieve an R-Value of \_\_\_\_\_. (maximum of R 19)
- D. Install spray applied insulation to achieve an overall NRC of \_\_\_\_\_.

K-13 Sprayed Thermal and Acoustical Insulation ASTM C-423 on Solid Backing*							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.00	0.08	0.29	0.75	0.98	0.93	0.96	0.75
1.00**	0.47	0.90	1.10	1.03	1.05	1.03	1.00
2.00	0.26	0.68	1.05	1.10	1.03	0.98	0.95
3.00	0.57	0.99	1.04	1.03	1.00	1.00	1.00

K-13 Sprayed Thermal and Acoustical Insulation Applied at 1.5" Ribbed Metal Deck*							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.50	0.36	0.89	1.26	1.07	1.01	1.00	1.05
3.00	0.97	1.04	1.13	0.99	0.95	0.98	1.05

\*Some values interpolated \*\*On lath

- E. Cure insulation with continuous natural or mechanical ventilation.
- F. Remove and dispose of over-spray.

**3.04 Protection**

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

END OF SECTION