

**Section 07 21 29 | 09 83 16**  
**K-13® Parking Garage Insulation**  
**Specification Guide 04/23**

**PART 1 – GENERAL**

**1.01 Section Includes**

- A. Sprayed cellulose thermal insulation. (07 21 29)
- B. Sprayed cellulose acoustical insulation. (09 83 16)

**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 Underwriters Laboratories (UL) Code Evaluation Report.
- B. Manufacturer must be in compliance with the 2009-2021 International Building Code.
- C. Manufacturer must be ISO 9001:2015 Certified.
- D. Manufacturer must be Forest Stewardship Council (FSC) Chain-of-Custody Certified.
- E. Applicator: Licensed by manufacturer.
- F. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratories and Factory Mutual. Each bag shall be labeled accordingly.
- G. Mock-up: Apply a 100 square foot representative sample to be reviewed by the Architect and/or Owner prior to proceeding.
- H. Manufacturer shall have a minimum 10-year successful performance history of producing and installing spray-applied cellulose on similar projects
- I. Material must be tested in accordance with ASTM E 1042 by a NVLAP accredited testing laboratory.

**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 1149
  - 4. Bond Deflection per ASTM E 759: 6" Deflection in 10' Span – No Spalling or Delamination.
  - 5. R-Value to be 3.70 per inch per ASTM C 518.
  - 6. Comply with 2015 IBC Section 803.12 stability requirements for interior finishes.
  - 7. Meet ASTM C 1149
  - 8. Product shall be Cradle to Cradle® Certified v.3.1 or higher to a minimum certification level of Bronze
  - 9. Product shall be UL GREENGUARD Gold Certified
  - 10. Product must have a publicly available Health Product Declaration (HPD) to 100 PPM
  - 11. Product must have a third-party verified, publicly available, product-specific Environmental Product Declaration per ISO 14025
  - 12. Manufacturer's written certification that product contains no asbestos,

**Section 07 21 29 | 09 83 16**  
**K-13® Parking Garage Insulation**  
**Specification Guide 04/23**

- fiberglass or other man-made mineral fibers.
- 13. Copy of manufacturer's ISO 9001:2015 Certification.
- 14. Minimum Fiber Recycled Content to be 80%.
- 15. Cannot contain any added 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.
- D. Water to be potable.

**PART 2 – PRODUCTS**

**2.01 Acceptable Manufacturers**

- A. International Cellulose Corporation  
12315 Robin Boulevard  
Houston, Texas 77045  
Phone: (713) 433-6701 or (800) 444-1252  
Fax: (713) 433-2029  
Website: [www.spray-on.com](http://www.spray-on.com)  
Email: [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 Light Gray.
  - 2. Each bag must be labeled with appropriate UL classification and FM markings.
  - 3. Each drum of adhesive must be labeled "SK-2000 adhesive to be used with K-13".

**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.
- D. Prime all gypsum board surfaces with high quality, commercial, gypsum board primer

**3.03 Installation**

- A. Install spray applied insulation according to manufacturer's recommendations.

**Section 07 21 29 I 09 83 16**  
**K-13® Parking Garage Insulation**  
**Specification Guide 04/23**

- B. Comply with local Building Code requirements.
- C. Install spray applied insulation to achieve an average R-Value of \_\_\_\_.
- D. Cure insulation with continuous natural or mechanical ventilation.
- E. Continuous ventilation must be maintained until the material has properly cured.
- F. Remove and dispose of over-spray.

**4.01 Protection**

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

END OF SECTION