

## SIMILAR K-13 PROJECTS

CENTENNIAL WAY PARKING GARAGE  
MESA, AZ

HYATT REGENCY ROYAL CENTRE  
VANCOUVER, BC

US POST OFFICE GARAGE  
SHERMAN OAKS, CA

ORLANDO INTERNATIONAL AIRPORT  
ORLANDO, FL

JACKSON MEMORIAL HOSPITAL  
MIAMI, FL

BUCKHEAD PLACE PARKING DECK  
ATLANTA, GA

WARDLAW CENTER/PARKING GARAGE  
ATLANTA, GA

COMMENCE TOWER  
WAIKIKI, HAWAII

HOLIDAY INN CAR PORT  
WICHITA, KS

MACY'S PARKING GARAGE  
NEW ORLEANS, LA

POYDRAS PLAZA HOTEL/PARKING GARAGE  
NEW ORLEANS, LA

BRONSON PLACE  
KALAMAZOO, MI

RIVERPLACE-MILLS POINT/PARKING GARAGE  
MINNEAPOLIS, MN

NAVAL REGIONAL MEDICAL CENTER  
CAMP LE JEUENE, NC

GREENSBORO REGIONAL AIRPORT  
GREENSBORO, NC

RIVERSIDE CONVENTION CENTER  
ROCHESTER, NY

MACY'S GALLERIA/PARKING GARAGE  
DALLAS, TX

TEXAS COMMERCE BANK  
EL PASO, TX

MACY'S DEPARTMENT STORE/GALLERIA  
HOUSTON, TX

RONALD MCDONALD HOUSE PARKING DECK  
HOUSTON, TX

BOEING COMPANY OFFICES/PARKING GARAGE  
SEATTLE, WA

MICROSOFT CORPORATE OFFICES  
SEATTLE, WA

## K-13<sup>®</sup> Spray On Systems Section 072129 Specification Guide 05/09

### 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
- 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.

#### 1.05 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.

### 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  
Email: [icc@spray-on.com](mailto:icc@spray-on.com)  
[www.spray-on.com](http://www.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.

#### 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.



**INTERNATIONAL  
CELLULOSE  
CORPORATION**  
® MANUFACTURER OF INSULATION SYSTEMS  
12315 ROBIN BLVD.  
HOUSTON, TX 77045  
Office: (800) 444-1252 or (713) 433-6701  
Fax: (713) 433-2029  
E-mail: [icc@spray-on.com](mailto:icc@spray-on.com)  
[www.spray-on.com](http://www.spray-on.com)

Professionally installed by:

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# K-13

spray-on systems

# Thermal and Acoustical

## Application of K-13 for Parking Structures



K-13 sprayed to this concrete parking deck provides thermal control to the conditioned spaces above

K-13<sup>®</sup> is manufactured with:  
Minimum 80% recycled content

PRINTED IN USA 12/09:

10%  
TOTAL RECOVERED FIBER  
ALL POST-CONSUMER FIBER

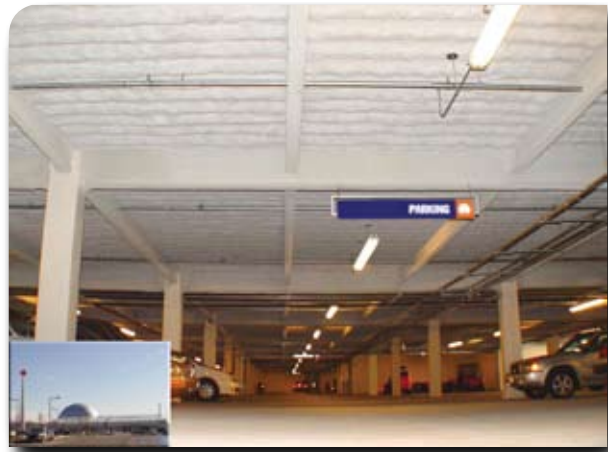
Mixed Sources  
Product group from well-managed  
forests, controlled sources and  
recycled wood or fiber  
[www.fsc.org](http://www.fsc.org) Cert no. SW-COC-001530  
© 1996 Forest Stewardship Council





# Thermal and Acoustical

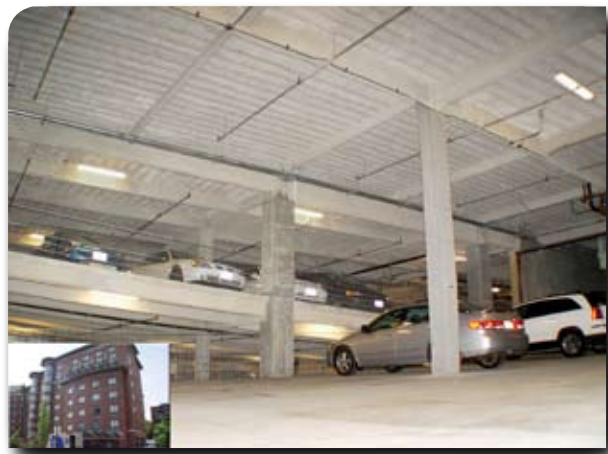
Application of K-13 for Parking Structures



**Basketball Hall of Fame** (Springville, MA)  
K-13 Gray | 75,000 Square Feet | 3" Thickness



**Patriot Place** (Foxborough, MA)  
K-13 Tan | 85,000 Square Feet | 3" Thickness



**Marriott Hotel** (Brookline, MA)  
K-13 Tan | 17,000 Square Feet | 3" Thickness



**Boston University Arena** (Boston, MA)  
K-13 Light Gray | 190,900 Square Feet | 3.4" Thickness



**Wellesley Free Library** (Wellesley, MA)  
K-13 Light Gray | 32,000 Square Feet | 3" Thickness



**Westin Hotel** (Providence, RI)  
K-13 Light Gray | 150,000 Square Feet | 4" Thickness



Nieuwegein, Netherlands

K-13 Tan | 10,000 Square Feet | 3" Thickness

Parking garages are just one of the many types of projects that benefit from K-13 products. K-13 utilizes a patented adhesive system that provides a strong, durable bond to virtually any substrate including concrete, metal, wood, glass, Styrofoam and urethane. This adhesive system also provides K-13 the capability of being installed four or more inches thick in one application, greatly reducing installation time of high R-value installations, such as the projects in this brochure. Not only is K-13 a class A insulation, but it does not require additional thermal barriers or ignition coatings.

The versatility of K-13 to conform to any surface configuration eliminates voids, gaps and compressions that can occur with prefabricated insulation. This monolithic coating results in the outstanding field performance. K-13 has been specified and recommended for related projects for decades.

Contact International Cellulose Corporation today at (800) 444-1252 for complete details on how K-13 can improve your new construction and renovation projects. You may also visit us online at [www.spray-on.com](http://www.spray-on.com).