



DESIGN SOLUTION

PRODUCTION SERVICES



PROJECT

**Fremont Studios
Seattle, WA**

**Jonas Jensen
Production Services
155 N 35th St
Seattle, WA 98103**

DETAILS

**K-13® Black
3" Thick
23,000 sq. ft.**



Fremont Studios has a 50,000 square foot sound stage production facility which is used for film and television production, concerts and private special events. For a facility such as this, good sound control is essential.

Jonas Jensen Production Services chose International Cellulose's Black K-13 for two reasons. The first is its superior sound absorption. K-13 provided an overall NRC of 1.0 installed at a thickness of 3". The second reason is Black K-13's ability to make "the ceiling go away". This helps keep the focus on the event and helps eliminate any light reflection problems.

K-13 absorbs sound energy instead of reflecting

it, reducing reverberation time and making speech and music more intelligible. Excessive and unwanted noise from rain, adjoining rooms and buildings and other outside disturbances are reduced with the application of K-13. A few of the projects that benefit from K-13 include churches, auditoriums, sports facilities and convention centers.

K-13 is available in six standard colors: black, gray, light gray, white, tan and beige. Custom colors are also available. Contact International Cellulose today at **(800) 444-1252** for complete details on how K-13 can improve your new construction and renovation projects or visit our website at www.spray-on.com.

**SIMILAR K-13 STUDIO
PROJECTS**

**CBS STUDIOS
HOLLYWOOD, CA**

**WIXIX TV STUDIOS/OFFICES
CINCINNATI, OH**

**RSVP STUDIO
LEE SUMMIT, MO**

**MTV CONCOURSE STUDIO
NEW YORK, NY**

**CRAMER PRODUCTIONS STUDIO
NORWOOD, MA**

**POWER VISION TV STUDIO
WINDER, GA**

**RANCH STUDIOS
AUSTIN, TX**

**BRT VIDEO STUDIOS
FT. LAUDERDALE, FL**

**WAMI-TV STUDIO
MIAMI BEACH, FL**

**CODE COMP TV STUDIO
MARLBOROUGH, CT**

**WKBD-UP TV 50 STUDIOS
SOUTHFIELD, MI**

**P.C.E STUDIOS
ATLANTA, GA**

**THREE ANGELS BROADCASTING
WEST FRANKFORT, IL**

**COLUMBIA UNIVERSITY STUDIO
NEW YORK, NY**

**LASER QUEST
DANVILLE, KY**

**UNIVERSAL STUDIOS
LOS ANGELES, CA**

**UNIVERSAL STUDIOS
ORLANDO, FL**

**CUTTING EDGE STUDIOS
TORRANCE, CA**

**K-13[®] Spray On Systems
Section 072129
Specification Guide 05/09**

PART 1 – GENERAL

1.01 Work Included:

- A. The work to be performed under this section shall include all materials, equipment, labor and services required to install the sprayed cellulose fiber in accordance with these specifications and as indicated on the drawings if applicable.
- B. A representative surface of not less than 100 Square feet shall be sprayed and approved by the Architect and/or Owner prior to proceeding.

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 be ISO 9001:2008 Certified.
- B. Applicator: Licensed by manufacturer.
- C. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratories and Factory Mutual. Each bag shall be labeled accordingly.
- D. 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 and manufacturer's certificate that the product meets or exceeds specified requirements.
- 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.

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
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 as indicated in Schedule 3.05.
 - 2. Apply at minimum thickness to provide R value(s) as indicated in Schedule 3.05.
 - 3. Comply with ASTM E-736 for field-tested bond strength; tested @ > 5 years:
 - a. Not less than 400 psf
 - b. Not less than 600 times its weight @ 1"
 - 4. Comply with ASTM E-84/ U.L. 723, Tested at a minimum of 5" thickness Class I

Flame Spread: 5
Smoke Development: 5
Comply with local Building Code requirements.

5. Comply with ASTM E-1042.

6. NRC Rating:

- a. Install at a minimum thickness to achieve a NRC rating as indicated in the Schedule 3.05.

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

- 7. Non-corrosive per ASTM C 739.
- 8. Bond Deflection per ASTM E-759:
6" Deflection in 10' Span
– No Spalling or Delamination

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

3.04 Protection:

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

3.05 Schedule:

- A. Provide a schedule when insulation requires listing by color, insulation value, NRC values and other attributes.



**INTERNATIONAL
CELLULOSE
CORPORATION**

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www.spray-on.com**

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Professionally installed by:



K-13[®] 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 Cert no. SW-COC-001530
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