



DESIGN SOLUTION MANUFACTURING

PROJECT

ITD Precision
Houston, TX

ACOUSTICAL CONSULTANT

HFP Acoustical Consultants
6001 Savoy Dr
Suite 115
Houston, TX 77036

DETAILS

K-13® Lt. Gray
2" Thick
54,000 sq. ft.



Since 1946 ITD Precision has served the metal stamping needs of a wide variety of manufacturers. ITD's services include: electro coat paint systems, tooling design, and product design. Automotive, oilfield, aircraft, and appliances are just some of the industries that use these products. The metal stamping equipment used in this facility created deafening noise of over 104 decibels 10 feet from the machines.

HFP Acoustical consultants were hired to find a product that would eliminate this excessive noise. K-13 was chosen. The resilient fibers of K-13 absorb sound energy instead of reflecting it, reducing reverberation time. K-13 was applied at 1.5" on the underside of the roof deck and 2" on all four walls down 12' from the ceiling. Customer was very happy with the results.

K-13 offers superior acoustical control and is available in 6 standard colors: black, gray, light gray, tan, white, and beige. Custom colors are also available to match any interior décor. Arenas, museums, parking garages, libraries, gyms, worship facilities, and restaurants are just a few of the many projects that benefit from K-13.

No matter what your design requirements or budget constraints, K-13 can be customized to meet your needs. For new construction or renovation projects, ICC's family of products offer the ideal ceiling treatment for all of your thermal and acoustical needs. For additional information, contact us at **(800) 444-1252** or visit our website at www.spray-on.com.



SIMILAR K-13 PROJECTS

THE DIE COMPANY
EAST LAKE, OH

M & J VALVE SERVICES
LAFAYETTE, LA

TOBASCO PLANT
AVERY ISLAND, LA

TRIPPLITE
MANUFACTURING
CHICAGO, IL

ARCELOR MITTAL STEEL
EAST CHICAGO, IN

PIONEER SEED COMPANY
WESTLACO, TX

BLUE RIDGE
PAPER COMPANY
ATHENS, GA

K-13[®] Spray On Systems Section 072129 Specification Guide 11/08

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 9001:2000 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 9001:2000 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.***



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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 10/08:



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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