



DESIGN SOLUTION

PASSENGER CRUISE TERMINALS

PROJECT

Galveston Cruise Terminal
Galveston, TX

DETAILS

K-13® White
1.5" Thick
25,000 sq. ft.



The Texas Cruise Ship Terminal on Galveston Island is located 42 miles from Houston Hobby Airport and 70 miles from the George Bush Intercontinental Airport. If you are going to take a cruise in the Gulf of Mexico, chances are you will depart from the Port of Galveston's Texas Cruise Ship Terminal. Because of the increased demand for cruises, many cruise ship passenger terminals are being developed by renovating unused freight terminals.

Two significant challenges faced by changing the function of the building was it did not have HVAC system or sound control. The high noise levels, high/low temperatures,

and humidity would have been unacceptable for cruise passengers. A decision was made to have 1.5 inches of K-13 white applied to the ceiling. The project was able to be completed ahead of schedule because of the ease and speed of installing K-13. K-13 provided the necessary noise control and at the same time provided thermal integrity to the un-insulated metal deck.

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, libraries, gyms, worship facilities, and restaurants are just a few of the many projects that benefit from K-13.

For new construction or renovation projects, ICC's family of spray applied 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

ABILENE REGIONAL AIRPORT
ABILENE, TX

BLACKSBURG AIRPORT
BLACKSBURG, VA

DALLAS FORT WORTH AIRPORT
DALLAS, TX

CAMBRIA COUNTY AIRPORT
JOHNSTOWN, PA

LAMBERT AIRPORT
SAINT LOUIS, MO

LINDBERGH AIRPORT
MINNEAPOLIS, MN

ORLANDO INTERNATIONAL AIRPORT
ORLANDO, FL

SEATAC AIRPORT
SEATAC, WA

WASHINGTON AIRPORT
WASHINGTON, DC

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.

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

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
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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 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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