

DESIGN SOLUTION

EVENT CENTER

PROJECT

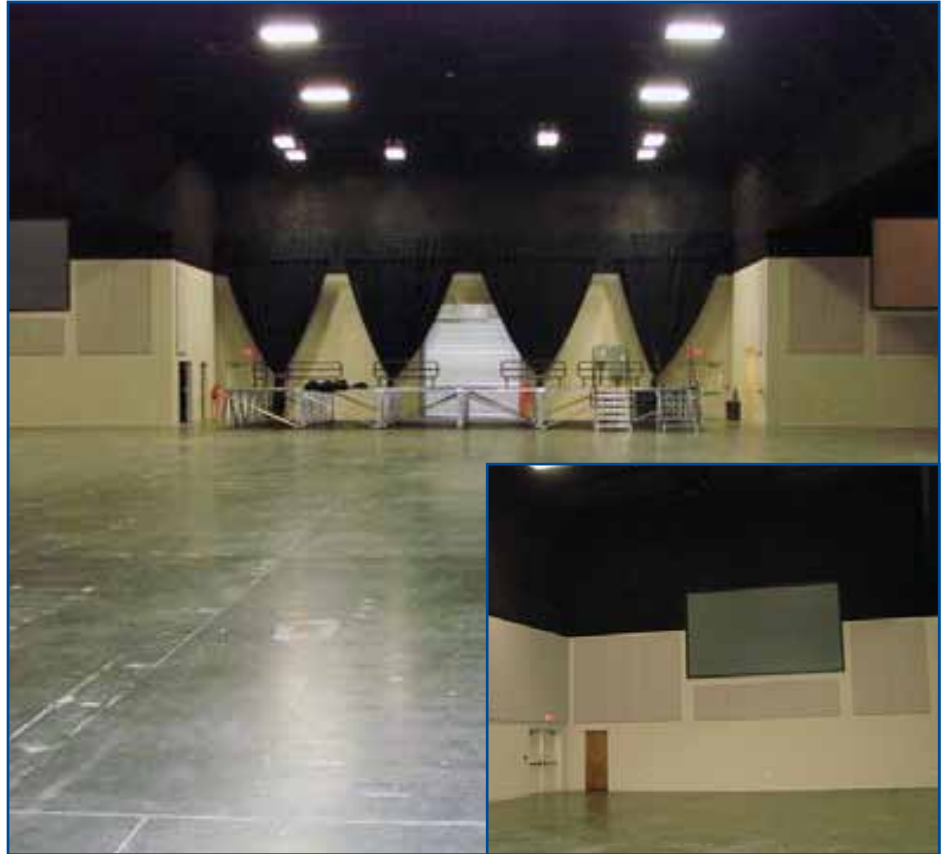
**Student Life Center
at the Wharf
Orange Beach, AL**

DETAILS

**K-13 Black
2" Thick
22,000 sq. ft.**

ACOUSTICS

**Wrightson, Johnson,
Hadden & Williams
Dallas, TX**



When the Conference Center at the Wharf was being constructed, value engineering deleted the acoustical treatment of K-13 from the project. The 22,000 square foot Center is an open area with painted concrete walls, and concrete floor with an exposed metal deck; A highly reverberant room. It didn't take but two events, a high school prom and a concert, for the owners to realize that deleting the acoustical treatment was a big mistake. WHJH, the installers of the audio system and the specifier of the K-13 immediately contacted ICC for the nearest licensed contractor of K-13. Energy Control Insulation in Mobile, Alabama was chosen to apply two inches of K-13 Black to the surface of the exposed metal deck

and down 15 feet on the perimeter walls. With a Christian youth group scheduled for leasing the center for three months, there was little time for any delay in getting the K-13 acoustical treatment applied to the ceiling. Philip Cox, owner of Energy Control Insulation, rose to the challenge with his crew of certified applicators and applied seven hundred bags of K-13 in seven days.

There are many projects like this across our country where value engineering has eliminated the acoustical treatment, only to come back after the project is completed and realize that the elimination of the acoustics created a much larger

problem. The cost of adding acoustics once a project is completed can easily double the original cost.

International Cellulose Corporation offers a family of acoustical finishes that can be applied in both new and renovated projects at reasonable costs. K-13 has superior acoustical and thermal properties and is available in five standard colors. Special matched colors are available upon request. Contact International Cellulose Corporation today at **(800) 444-1252** or visit us online at www.spray-on.com for complete details on how ICC can improve your building projects.

SIMILAR K-13 PROJECTS

COWBOY STADIUM
DALLAS COWBOYS
ARLINGTON, TX

DARRELL K ROYAL
TEXAS MEMORIAL STADIUM
UNIVERSITY OF TEXAS
AUSTIN, TX

INVESCO FIELD AT MILE HIGH
DENVER BRONCOS
DENVER, CO

TCF BANK STADIUM
UNIVERSITY OF MINNESOTA
TWIN CITIES, MN

MEMORIAL STADIUM
UNIVERSITY OF OKLAHOMA
NORMAN, OK

UNIVERSITY OF PHOENIX
ARIZONA CARDINALS
PHOENIX, AZ

QWEST FIELD
SEATTLE SEAHAWKS
SEATTLE, WA

SOLDIER FIELD
CHICAGO BEARS
CHICAGO, IL

GILLETTE STADIUM
NEW ENGLAND PATRIOTS
FOXBOROUGH, MA

K-13® 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
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
www.spray-on.com

Professionally installed by:

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K-13® is manufactured with:
Minimum 80% recycled content

PRINTED IN USA 4/10:



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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