



# PROJECT PROFILE

## Multi-Purpose Events Center



### PROJECT

Kay Yeager Coliseum  
Wichita Falls, TX

### DETAILS

K-13 Black  
280,000 Square Feet  
Thickness: 2" Ceiling, 3" Walls

The versatility of the Kay Yeager Coliseum is wide-ranging, providing facilities for a variety of sporting, agricultural and entertainment events. The multi-purpose events center also accommodates lectures, conventions, concerts and graduation exercises.

K-13 was originally specified as the acoustical treatment on this project. However, due to budget constraints, K-13 was removed from the original project scope. After the 10,500-seat coliseum was completed in January 2003 and hosted its first events, complaints began to pour in from entertainment seekers.

The venue held its first sold-out concert in November 2003, when Three Doors Down performed at the coliseum. Following the show, the local newspaper reported that many concertgoers complained of poor acoustics within the facility and stated that there were even a couple of songs they couldn't even recognize. Additionally, hockey fans stated they were not able to hear what the public-address announcer was saying at the Wichita Falls Wildcats' games. Most recently in June, parents also complained about not being able to hear the names of their children at their graduation exercises.

As a result, the coliseum could not be utilized for events due to high reverberation, low intelligibility and overall poor acoustics within the facility. In response, the City Council unanimously passed an ordinance that funded the much-needed K-13



acoustical treatment. K-13 Black was then applied to the ceilings and walls within the coliseum.

The unique acoustical properties of K-13 dramatically reduce reverberation (echo) and noise levels within a facility. The result is a more comfortable environment providing for greater utilization of the building.

When Three Doors Down recently returned to Wichita Falls in October 2005 for a 2nd concert at the coliseum, the local newspaper reported the show to be a great success. It was the first concert

held at the facility since the application of the K-13 acoustical treatment. Following this show there wasn't a single complaint reported, which is a testament to the superior acoustics that can be achieved through K-13.

Entertainment venues, convention centers, office buildings, and retail stores are just a few of the many types of projects that benefit from K-13. Whether for new construction or renovation projects, Contact ICC today at **800/444-1252** for complete details on how K-13 can improve your projects or visit our website at [www.spray-on.com](http://www.spray-on.com)

## PARTIAL LIST OF SIMILAR PROJECTS

BOSSIER CITY  
MULTI-PURPOSE ARENA  
BOSSIER CITY, LA

BOSTON COLLEGE ARENA  
BOSTON, MA

DAVID L. LAWRENCE  
CONVENTION CENTER  
PITTSBURGH, PA

TIMMONS ARENA  
TAMPA, FL

REED ARENA  
COLLEGE STATION, TX

LOUISIANA STATE UNIVERSITY  
PETE MARAVICH CENTER  
BATON ROUGE, LA

UNIV. OF WEST VIRGINIA COLISEUM  
MORGANTOWN, WV

VERIZON MEGA CENTER  
HAMILTON, NJ

VERIZON MEGA CENTER  
PITTSBURGH, PA

VILLANOVA UNIVERSITY PAVILION  
VILLANOVA, PA

STAPLES CENTER  
LOS ANGELES, CA

INDIANA PACERS ARENA  
INDIANAPOLIS, IN

UTAH JAZZ PRACTICE FACILITY  
SALT LAKE CITY, UT

NEW JERSEY NETS ARENA  
EAST RUTHERFORD, NJ

TAMPA BAY LIGHTNING  
HOCKEY ARENA  
TAMPA, FL

ATLANTA HAWKS SPORTS STADIUM  
ATLANTA, GA

## Section 07218 K-13 Spray On Systems Specification Guide

### PART 1 - GENERAL

#### 1.01 Section Includes

##### EDIT ACOUSTICAL WHERE REQUIRED

- A. Sprayed cellulose thermal and 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 be ISO 9001:2000 Certified.  
B. Applicator: Licensed by manufacturer  
C. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratory and Factory Mutual. Each bag shall be labeled accordingly.  
D. Mock-up: Apply a representative sample 100 square feet to be reviewed by the Architect and/or owner prior to proceeding.

#### 1.04 Submittals

- A. Submit product data and manufacturers certificate that the product meets or exceeds specified requirements.  
B. Manufacturers written certification that product contains no asbestos, fiberglass, or other man-made mineral fibers.  
C. Copy of manufacturers 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  
www.spray-on.com icc@spray-on.com

- B. For approved applicators contact ICC at 800-444-1252

#### 2.02 Materials:

- A. K-13 Spray-On Systems  
\*\*COLOR SELECTION WILL AFFECT PRICE  
1. Color shall be as indicated in Schedule 3.05  
\*\*ADD THERMAL RESISTANCE VALUES IF APPLICABLE  
2. Apply at a minimum thickness to provide R values 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, Class A

Flame Spread: 5  
Smoke Development: 5

5. Comply with local building code requirements.  
6. Comply with ASTM E-1042

##### \*\*EDIT NRC RATING IF APPLICABLE

##### 7. NRC Rating:

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

##### K-13 Sprayed Thermal and Acoustical Insulation ASTM C-423 on Solid Backing\*

	125	250	500	1000	2000	4000	NRC
1.00"	.08	.29	.75	.98	.93	.96	.75
1.00***	.47	.90	1.10	1.03	1.05	1.03	1.00
2.00"	.26	.68	1.05	1.10	1.03	.98	.95
3.00"	.57	.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\*

	125	250	500	1000	2000	4000	NRC
1.50"	.36	.89	1.26	1.07	1.01	1.00	1.05
3.00"	.97	1.04	1.13	.99	.95	.98	1.05

\*Some values interpolated

\*\*On Lath

8. Non-corrosive per UMB-80  
9. Bond deflection per ASTM E-759: 6" Deflection in 10' span - no spalling or delamination.  
10. Cohesive strength at time of application per Method WS-2000: >700 grams.

### PART 3 - EXECUTION

#### 3.01 Examination

- A. Examine surfaces and report unsatisfactory conditions in writing. Don not proceed until unsatisfactory conditions are corrected.  
B. Verify surfaces to receive spray insulation to determine if priming/sealing is required to ensure 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 prevent damage from over-spray.  
B. Coordinate installation of the sprayed cellulose fiber with work of other trades.  
C. Prime surfaces as required by manufacturers instructions or as determined by examination.

#### 3.03 Installation

- A. Average thickness to achieve NRC value of 0.65 or greater.  
B. Install spray applied insulation according to manufacturers recommendations.  
C. Cure insulation with continuous natural or mechanical ventilation.  
D. Remove and dispose of over-spray.

#### 3.04 Protection

- A. Protect finished surface under provisions of Division 1.

#### 3.05 Schedule

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



Professionally installed by:

P.O. BOX 450006  
HOUSTON, TX 77245  
800/444-1252  
713/433-2029 (FAX)  
icc@spray-on.com (E-mail)