



PROJECT PROFILE

Multi-Purpose Exhibition Center



PROJECT

The Puyallup Fair
ShowPlex Exhibition Center
Puyallup, WA

ARCHITECT

McGranahan Architects
Tacoma, WA

DETAILS

K-13 Black
122,000 square feet
Thickness: 2"



The Puyallup Fairgrounds, home to the renowned Puyallup Fair, averages 1.3 million attendees over 17 days during the fall fair and an additional 70,000-110,000 over 3 1/2 days during the spring fair. The fairgrounds also host a variety of events throughout the year including livestock shows, rodeos, consumer and trade shows, private parties, meetings, and conventions.

The ShowPlex Exhibition & Conference Center is the latest addition to the fairground's facilities. The Showplex consists of metal roof deck construction

and features high ceilings, a paved concrete floor and oversized service entrances that provide easy access for large events. The facility was designed to be multi-functional. However, without proper acoustical treatment the open design and hard surfaces would contribute to high levels of noise and reverberation and render the facility unusable.

Acoustical professionals were consulted and recommended that 2" of K-13 Black be applied to the entire metal roof deck to achieve the desired acoustical absorption.

Following the application of K-13, the facility could effectively accommodate a wide range of events, including musical and entertainment events. The ShowPlex opened its doors in September 2005 at the Puyallup Fair with much success. The end result was a comfortable environment with ambient acoustics, providing for greater utilization of the exhibition center.

K-13 offers superior acoustical control and is available in 5 standard colors and specially matched custom colors. K-13 also provides exceptional thermal benefits and can be applied to virtually any properly prepared surface configuration.

Whether for new construction or renovation projects, ICC's family of products offer the ideal ceiling treatment for all your thermal and acoustical needs. For additional information, contact (800) 444-1252 or visit our website at www.spray-on.com.

PARTIAL LIST OF SIMILAR PROJECTS

KAY YEAGER COLISEUM
WICHITA FALLS, TX

BOSSIER CITY
MULTI-PURPOSE ARENA
BOSSIER CITY, LA

BOSTON COLLEGE ARENA
BOSTON, MA

DAVID L. LAWRENCE
CONVENTION CENTER
PITTSBURGH, PA

TIMMONS ARENA
FURMAN UNIVERSITY
GREENVILLE, SC

REED ARENA
COLLEGE STATION, TX

LOUISIANA STATE UNIVERSITY
PETE MARAVICH CENTER
BATON ROUGE, LA

UNIV. OF WEST VIRGINIA COLISEUM
MORGANTOWN, WV

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

WORLD CONGRESS CENTER
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. Do 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.



P.O. BOX 450006
HOUSTON, TX 77245
800/444-1252
713/433-2029 (FAX)

www.spray-on.com