



# DESIGN SOLUTION CONVENTION CENTERS

## PROJECT

Hilton Branson Convention Center  
Branson, MO

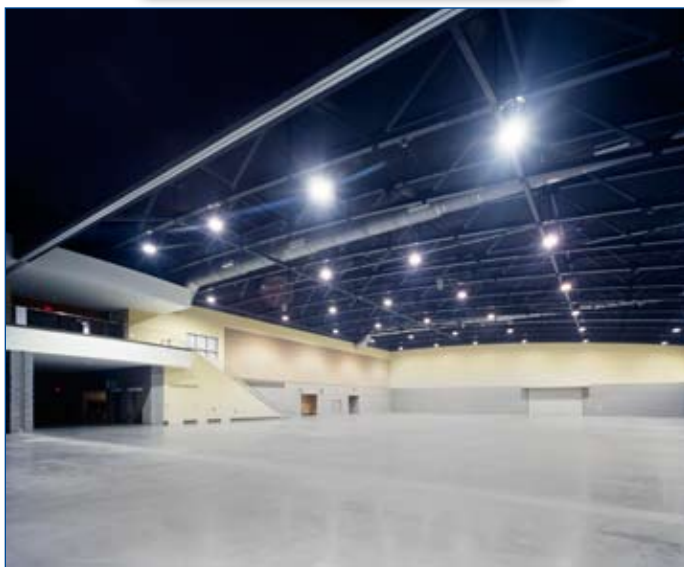
## ARCHITECTS

Thompson, Ventulett, Stainback  
& Associates  
Atlanta, GA

Crawford Architects  
Kansas City, MO

## DETAILS

K-13® Black  
1.5" Thick  
47,000 sq. ft.



The Hilton Branson Convention Center is a newly constructed 300,000 square foot multi-purpose facility located in the middle of the Branson Landing development. This includes 47,000 square feet of exhibit space. This space is designed to host tradeshows, conference, auctions, expos and special events. With the range of activities expected, controlling sound reverberation is important,

The Architects chose International Cellulose's K-13 because of its superior Noise Reduction Co-Efficient (NRC). Applied at an application of 1 1/2" to the ceiling provided an NRC of 0.90 (90%). Black was chosen as the color because it helps keep the focus on the event and helps eliminate any light reflection problems.

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.

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](http://www.spray-on.com).

## SIMILAR K-13 PROJECTS

AUSTIN HILTON  
CONVENTION CENTER  
AUSTIN, TX

CINCINNATI CONVENTION CENTER  
CINCINNATI, OH

COOK CONVENTION CENTER  
MEMPHIS, TN

GEORGE R BROWN  
CONVENTION CENTER  
HOUSTON, TX

GULF COAST COLLISEUM  
GULF PORT, MS

GWINNETT CIVIC CENTER  
DULUTH, GA

KNOXVILLE CONVENTION CENTER  
KNOXVILLE, TN

MONONA TERRACE  
CONVENTION CENTER  
MADISON, WI

LAKE CHARLES  
CONVENTION CENTER  
LAKE CHARLES, LA

PHOENIX CONVENTION CENTER  
PHOENIX, AZ

WILDWOOD CONVENTION CENTER  
WILDWOOD, NJ

VAN CLEVE COMMUNITY CENTER  
MINNEAPOLIS, MN

PALM BEACH COUNTY  
CONVENTION CENTER  
WEST PALM BEACH, FL

DAVID L LAWRENCE  
CONVENTION CENTER  
PITTSBURGH, PA

THE PUYALLUP FAIR  
SHOWPLEX EXHIBITION CENTER  
PUYALLUP, WA

## K-13<sup>®</sup> Spray On Systems Thermal and Acoustical Insulation Specification Guide

### 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 Work:

- 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.

#### 1.03 Systems Description/Quality Assurance:

- A. Contractor must use a total system, encompassing equipment, fiber and adhesive as supplied and tested by the manufacturer. No substitution may be made.
- B. Fibers supplied under this specification shall have each bag coded with the date and lot number of manufacture, and retained samples shall be kept by the manufacturer for not less than one year.
- C. Contractor must be licensed and trained by the manufacturer.

#### 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.

#### 1.05 Product Delivery, Storage and Handling:

- A. Materials shall be delivered in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.
- B. Store materials off ground, under cover and away from damp surfaces and keep material dry at all times.
- 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

#### 2.02 Materials:

- A. K-13 Spray-On-Systems.
  1. Color shall be as indicated in Schedule 3.03. [Color selection will affect price]
  2. Thermal Resistance values [if applicable]:  
Apply at minimum thickness to provide an R-value as indicated in Schedule 3.03
  3. Field tested bond strength report per ASTM E-736.  
Tested @ > 5 years  
Not less than 400 psf  
  
Not less than 600 times its weight @ 1"

4. The sprayed insulation must have been tested in sprayed form by U.L. and have each bag labeled with the reference to U.L. test results according to ASTM E-84/U.L.723:

Tested at a minimum of 5" thickness, Class 1	
Flame Spread	Not To Exceed 5
Smoke Development	Not To Exceed 5

5. Fire Endurance rating greater than or equal to 45 minutes per ULC S101-M89 and British Columbia Building Code 3.1.4.7(3)(B). Minimum thickness 2 1/2"
6. The sprayed insulation must meet appropriate Building Code Requirements.
7. The sprayed insulation must meet ASTM E-1042
8. NRC rating [if applicable]:  
Install at a minimum thickness to achieve a NRC rating as indicated in Schedule 3.03
9. Noncorrosive per UMB-80.
10. Bond Deflection per ASTM E-759.  
6" Deflection in 10' Span-No Spalling or Delamination
11. Cohesive Strength at time of application per Method WS-2000: >700 Grams

### PART 3 - EXECUTION

#### 3.01 Inspection-Preparation-Installation:

- A. The installing contractor shall examine all surfaces and report all unsatisfactory conditions in writing to the General Contractor and Architect. The work shall not proceed until unsatisfactory conditions are corrected.
- B. Provide masking, drop cloths or other satisfactory coverings for all materials/surfaces which are not to receive insulation so as to prevent damage from overspray.
- C. Surfaces to receive spray insulation shall be inspected prior to application to determine if priming/sealing is required to insure bonding and/or to prevent discoloration caused by migratory stains. Prime accordingly.
- D. Installed thickness will be determined as the minimum thickness measured as per ASTM E-605 field test procedure. Thickness(es) shall be as listed in section 3.03 or as indicated on the drawings.
- E. The work shall be coordinated with other trades whose work may be affected or have an effect on the installation of the sprayed cellulose fiber.
- F. Installation, clean-up and curing shall be accomplished according to the manufacturers' recommendations and common construction standards.
- G. Provide natural or mechanical ventilation continuously to properly cure the insulation.

#### 3.02 Protection:

- A. Protect finished installation under provision of section 01500 and 01535.

#### 3.03 Schedule:

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



**INTERNATIONAL  
CELLULOSE  
CORPORATION**

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Website: [www.spray-on.com](http://www.spray-on.com)

Professionally installed by:

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Minimum 80% recycled content