



PROJECT DESIGN SOLUTIONS SCHOOLS

ICC PRODUCTS
WILL NOT SUPPORT
MOLD OR MILDEW
PER ASTM
C 739

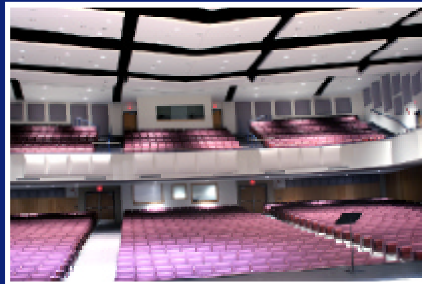
Band Room with

SonaSpray® "fc"
Acoustical treatment



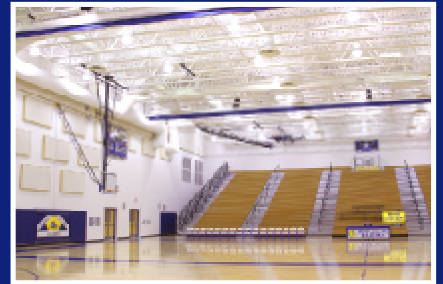
Auditorium with

K-13
spray-on systems



Gymnasium with

SonaSpray® "fc"
Acoustical treatment



PROJECT

North Platte High School
North Platte, NE

DETAILS

White SonaSpray 'fc'® at 1"
Black K-13® at 1"
31,000 Square Feet

Band rooms, auditoriums, and gymnasiums are some of the best applications for K-13 and SonaSpray 'fc'. In the North Platte High School Band Room, SonaSpray 'fc' was chosen to control reverberation because of its superior NRC values when applied over a ribbed metal deck.

SonaSpray 'fc' was applied to the roof deck at 1 inch, resulting in a NRC of .90.

In the North Platte Auditorium, Black K-13 was used in conjunction with a drywall cloud system. K-13 black was also chosen to hide the ceiling and rigging work and to contrast with the ceiling panels, creating an attractive grid effect.

Gymnasiums are the most typical SonaSpray 'fc' application for schools. The hard, acoustically reflective surfaces create very high reverberation times. Thus making speech and announcements unintelligible.

SonaSpray 'fc' in Arctic White was applied to the roof deck to reduce the reverberation time. Arctic White was chosen for its high light reflectivity and clean appearance. Additionally, the resilient fibers of SonaSpray 'fc' resist impact damage.

K-13 and SonaSpray 'fc' are also ideal for use in pool areas and classrooms. Other applications include churches, office buildings, retail stores, bars and restaurants, parking garages, and airports.

For more information on this project or a similar application call 800-444-1252 or spray-on.com.

PARTIAL LIST OF
SIMILAR PROJECTS

ALCORN STATE UNIVERSITY
NATCHEZ, MS

ARKANSAS STATE UNIVERSITY
JONESBORO, AR

ARLINGTON MIDDLE SCHOOL
POUGHKEEPSIE, NY

BALDWIN HIGH SCHOOL
BALDWIN, WI

BELLINGHAM HIGH SCHOOL
BELLINGHAM, WA

BRIDGETON ELEMENTARY SCHOOL
NEW BERN, NC

BURLINGTON SENIOR HIGH SCHOOL
BURLINGTON, WI

BURTON MIDDLE SCHOOL
PORTERVILLE, CA

CASA DE ORO ELEMENTARY
SPRING VALLEY, CA

CEDAR RIVER JUNIOR HIGH SCHOOL
MAPLE VALLEY, WA

CHARLES W. BAKER HIGH SCHOOL
BALDWINVILLE, NY

CLEAR CREEK MIDDLE SCHOOL
IDAHO FALLS, CO

COLLEYVILLE HERITAGE HIGH
SCHOOL
CONCORD, VT

CROWN POINT HIGH SCHOOL
CROWN POINT, IN

CUSTER BAKER MIDDLE SCHOOL
FRANKLIN, IN

DAYTON MIDDLE SCHOOL
DAYTON, OH

DOANE COLLEGE FIELD HOUSE
CRETE, NE

EASTVIEW ELEMENTARY SCHOOL
OWENSBORO, KY

FITCH MIDDLE SCHOOL
GROTON, CT

FREDERIC DOUGLASS MIDDLE
SCHOOL
ROCHESTER, NY

JFK MIDDLE SCHOOL
ATLANTA, GA

K-13[®] 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 3.0.3
 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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HOUSTON, TX 77045
800/444-1252
713/433-6701

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www.spray-on.com (Internet)
icc@spray-on.com (E-mail)

Professionally installed by:

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Minimum 80% recycled content