



PROJECT
Barstow High School
Gymnasium
Barstow, CA

ARCHITECT
HMC Group
Ontario, CA

DETAILS
SonaSpray "fc" Arctic White
11500 Square Feet
1" Thickness

During the initial design of the Barstow High School Gymnasium, HMC Group Architects chose SonaSpray "fc" for the acoustical finish. HMC Group Architects needed a product that would eliminate excessive noise and be durable enough for use in the school gymnasium. SonaSpray "fc" met all of their needs

SonaSpray "fc" was spray-applied at 1" on the underside of the roof deck. The acoustical performance of SonaSpray "fc" when applied at 1" is unequalled for an exposed product. An NRC rating of .90 was achieved in the gymnasium, helping the students and school faculty enjoy their use of the facility.

The durability of SonaSpray "fc" was very appealing to the architects

The patented adhesive used during the application process, provides a strong, durable and resilient bond. SonaSpray "fc" will resist impact and without cracking or spalling, typical of most cementitious or plaster based materials.

SonaSpray "fc" provides an attractive, high performance solution to acoustical and lighting design objectives. Typical installations include: schools, churches, passenger terminals, libraries, cafeterias and hotels. For new construction or renovation projects, International Cellulose Corporation's family of products offer the ideal ceiling treatment for any thermal or acoustical need. Contact ICC today at **(800) 444-1252**, or visit us online at **www.spray-on.com**.

PARTIAL LIST OF
SIMILAR PROJECTS



Roscommons Gymnasium
Gaylord, MI



YMCA
Various Locations



St. Ambrose Gymnasium
Houston, TX



Western Raquet Fitness
Elm Grove, WI

Section 09212
SonaSpray® "fc" Spray On Acoustical Treatment
Specification Guide Rev 11/01

PART 1 - GENERAL

1.01 Section Includes

EDIT ACOUSTICAL WHERE REQUIRED

- A. Sprayed cellulose insulation finish system.

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.

1.03 Submittals

- A. Copy of manufacturer's ISO 9001:2000 Certification.
- B. Submit 2 copies of these reports indicating compliance with the following:

Light reflectivity minimum 81 + Arctic White
73 + White

NRC VALUES per ASTM C-423 conducted by a NVLAP certified testing laboratory:

	125	250	500	1000	2000	4000	NRC
0.50" ¹	.08	.16	.46	.87	1.07	1.12	.65
0.75" ²	.25	.36	.74	.98	.99	.99	.75
0.75" ³	.17	.58	.91	.89	.87	.84	.80
1.00" ¹	.12	.38	.88	1.15	1.15	1.15	.90

Flame Spread Index 5 ASTM E-84/UL 723
Smoke Developed 5 ASTM E-84/UL 723

Bond Strength

SonaSpray "fc" >600 psf ASTM E-736
SonaSpray "fc" Dura-k >900 psf ASTM E-736

Compression Strength

SonaSpray "fc" >400 psf ASTM E-761
SonaSpray "fc" Dura-k >600 psf ASTM E-761

- C. Manufacturer's written certification that product contains no asbestos, fiberglass or other man made mineral fibers.

1.04 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 Underwriter Laboratories. Each bag shall be labeled accordingly.
- D. Mock-up: Apply a 100 square foot representative sample to be reviewed by the Architects and/or owner prior to proceeding.

1.05 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 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

2.02 Materials: (Specify desired product)

- A. SonaSpray "fc" Acoustical Finish
- B. SonaSpray "fc" Dura-K
**Color selection will affect price
- C. Color shall be as indicated in Schedule 3.05

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.



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Professionally Installed By: