

AN ACOUSTICAL FINISH CASE STUDY FROM INTERNATIONAL CELLULOSE



PROJECT	Townsend Library & Senior Center Townsend, MA
DETAILS	SonaKrete® White 4,000 Sq. Ft. @ 1/2"
ARCHITECT	Johnson Roberts Associates, Inc. Somerville, MA
ACOUSTICS	Cavanaugh Tocci Associates Sudbury, MA

Project Architect Stewart Roberts was given the opportunity to design the new 22,000 sq ft library and senior center for Townsend, MA as a result of a benefactor who gifted the land, the construction of the entire facility and all of its furnishings. The new library was designed with lots of daylight and high vaulted ceilings.

Stu Roberts said, *“We looked at a number of methods to tame the harsh reverberation coming off the barrel vaulted ceilings. We were all skeptical as to whether or not SonaKrete could get the job done. Once it was finished, even the benefactor who is hard of hearing was impressed with the difference. We are most impressed with both the performance and the aesthetics.”*

Looking up from the floor, no one would recognize the ceiling finish as an acoustic product. SonaKrete is trowel finished to be smooth, thus making it ideal for any architectural space requiring both acoustic performance and beautiful aesthetics. SonaKrete is available in Arctic White and Standard White. Custom integral colors are also available. SonaKrete is also ideal for worship centers, museums, offices, classrooms, lobbies and restaurants, and wherever performance, appearance and durability demand the very best.

With SonaKrete®, Quiet Never Looked So Good.

Contact ICC at **(877) 790-9367** for samples and complete technical data. Please pay us a visit at www.sonakrete.com. Would you like to learn even more? ICC also offers architects an AIA/CES Lunch-N-Learn program on the subject of Spray-Applied Acoustic Finishes.

Other Custom Color
SonaKrete Applications



Valdosta University
Valdosta, GA



Bedens Brook Club
Skillman, NJ



Cullen's Upscale American Grille
Houston, TX



Corpus Christi Catholic Church
Tuscon, AZ

Section 09 83 16
SonaKrete® Acoustical Finish
Specification Guide

INTRODUCTION

This specification is designed to enable the design professional or specification writer to select the NRC value that best suits the project's requirements. Please edit the NRC value in section 3.03 Line A.

PART 1 – GENERAL

1.01 Section Includes

- A. SonaKrete® Acoustical Finish System.

1.02 Project Scheduling

- A. Clips, hangers, supports, sleeves and other attachments to the substrate are to be placed by other trades prior to the application of acoustical finish.
- B. Ducts, piping, conduit or other suspended equipment shall not be positioned until after the application.

1.03 Submittals

- A. Submit one copy of the manufacturer's ISO 9001:2008 Certification.
- B. Submit 2 copies of the test reports indicating compliance with the following:
 1. NRC values per ASTM C-423 conducted by a NVLAP certified testing laboratory:

Inches	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC
.25"	.01	.07	.39	.69	.83	.87	.50
.375"	.06	.11	.46	.77	.84	.89	.55
.50"	.01	.16	.49	.89	1.03	.97	.65
.75"	.25	.48	.81	.85	.85	.94	.75

- 2. Class 1 Fire Rating per ASTM E-84
- C. Submit one copy of the manufacturer's written certification that the materials contain no asbestos, fiberglass or other man-made mineral fibers.
- D. Applicator's certificate: Manufacturer's approval of applicator.
- E. Submit 2 5"x7" samples from the manufacturer.

1.04 Quality Assurance

- A. The Manufacturer must be ISO 9001:2008 Certified.
- B. The Applicator: Approved by International Cellulose in performing work of this Section.
- C. Field samples:
 1. Construct one field sample panel, 10'x10', to specified thickness to illustrate texture and color.
 2. Prepare the sample using the same tools and techniques to be used for the actual application.
 3. Locate the sample where directed.
 4. The applicator will inform the project architect when the sample is ready for review.
 5. Do not start the actual application until the architect has approved the field sample.

1.05 Delivery, Storage and Handling

- A. Deliver in original, unopened containers bearing name of manufacturer and product identification.

- B. Store materials dry, off ground and under cover.
- C. Protect liquid adhesive, sealers & additives from freezing.

1.06 Project Conditions

- A. The air temperature in the room must be a minimum of 40° F and maintained until the material has cured.
- B. The substrate temperature must be a minimum of 40° F.
- C. The General Contractor to provide ventilation to ensure proper curing.

PART 2 – PRODUCTS

2.01 Acceptable Manufacturers

- A. International Cellulose Corporation
12315 Robin Boulevard
Houston, Texas 77045
877-790-9367
FAX: (713) 433-2029

2.02 Materials

- A. SonaKrete® Acoustical Finish System
- B. SonaPrep
- C. Water – Potable
- D. Color shall be:
 - White Arctic White
 - Custom Color _____

PART 3 – EXECUTION

3.01 Examination

- A. Examine the substrate surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
- B. Drywall substrates require a minimum Level 3 finish and are to be sealed with SonaPrep.
- C. Plaster substrates require a brown coat finish and are to be sealed with SonaPrep.
- D. Consult International Cellulose for other substrates.

3.02 Preparation

- A. Provide masking, drop cloths or other satisfactory coverings for materials/ surfaces that are not to receive acoustical finish.
- B. Coordinate the installation of the acoustical finish with work of other trades.

3.03 Application

- A. Install to a thickness to achieve an NRC of _____.
- B. Install the acoustical finish according to the manufacturer's written instructions.
- C. After achieving the required thickness and while still wet, float the material to match the approved field sample.
- D. Cure the material with continuous natural or mechanical ventilation.

3.04 Protection

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



SonaKrete is manufactured with a minimum of 80% recycled content which makes it ideal for LEED credits.

© ICC All rights reserved. Printed in USA 7/10



**INTERNATIONAL
CELLULOSE
CORPORATION**

12315 Robin Blvd
Houston, TX 77045
877-790-9367
713-433-2029 FAX
www.sonakrete.com