

Interdisciplinary Science Building
Webster University
Cannon Design Project No. 004561.01

Project: Webster ISB Substitution Request Number: _____
From: Doug Mayhew
To: Melissa Pirtle stl-
cac@cannondesign.com Date: 4.6.2016
Re: ACOUSTICAL PLASTER SURFACE Contract For: ACOUSTICAL MATERIAL

Specification Title: ACOUSTICAL PLASTER SYSTEM Description: PRODUCTS
Page
Section: 098310 : 2.2 Article/Paragraph: _____

Proposed Substitution: STARSILENT ACOUSTICAL PLASTER SYSTEM
Trade Name: STARSILENT ACOUSTICAL SYSTEM
Model No.: 25mm panel w/2 coat acoustical plaster finish
Manufacturer: Pyrok
Address: 121 Sunset Road
New York, NY
Phone: 914-777-7070 Manufacturer Web Page: www.pyrokinc.com

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

Pyrok is a complete acoustical system w/ recycled acoustic board.
Savings to Owner for accepting substitution: Cost of substrate's fiberglass for necessary for others. (\$ _____)
Proposed substitution ☐ No ☐ Yes [Add] [Deduct] _____ days.
changes Contract Time:

The Undersigned Bidding General Contractor/Construction Manager Certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified products.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

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- The following supporting data is attached to this request and verifies the above statements:

- ☐ Drawings
- ☒ Product Data
- ☐ Samples
- ☒ Tests
- ☒ Reports
- ☐ Other (explain) _____

Submitted by:

Patty Gaus - Gaus + Associates WBE

Signed by:

Patty Gaus

Contractor:

Address:

Phone:

314-219-5657

Email

patty@gausacoustics.com

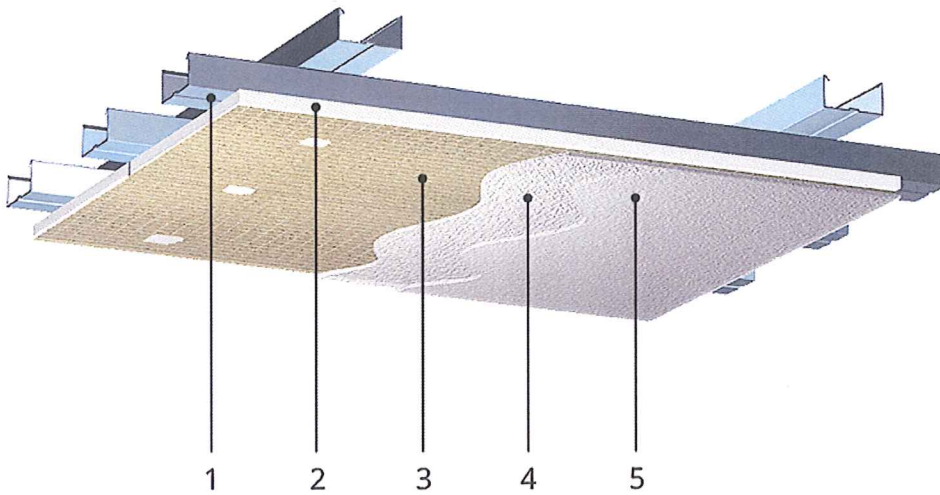
Review and Action

- ☐ Substitution approved – Make submittals in accordance with the Specifications.
- ☐ Substitution approved as noted – Make submittals in accordance with the Specifications.
- ☒ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments: this is not an equal product and we are concerned about appearance. Data indicates that product looks smooth at 18', our ceilings are 9'-6". Design intent is a very smooth finish.

Signed by: Lynn Grossman

Date: 04.26.16



1. Galvanized steel suspended ceiling grid

Other types of framing systems are also used with the StarSilent System

2. StarSilent Panel

3. Zinc coated drywall screws

4. Acoustically transparent base coat plaster

5. Acoustically transparent smooth plaster finish

Not Shown: rigid vertical framing

StarSilent Panel

The panel thicknesses are 10mm, 15mm and 25mm. Contact Pyrok, Inc. for panel sizes.

StarSilent Cool

The StarSilent panel incorporates room cooling and heating.

StarSilent Fix

The StarSilent Fix adhesive is used to glue the edges of the StarSilent panels together, and to spread over the screw heads that fasten the panels to the framing. The Fix is also used to embed edge trims, corner trims, reveal trims, and some ceiling accessories.

StarSilent Base Coat Plaster

This is the first coat of plaster that is hand applied over the StarSilent panels. It is slightly coarser than the StarSilent Finish plaster. A second layer of Base Coat plaster can be left as the finish, if this level of finish is desired.

StarSilent Finish Plaster

The StarSilent Finish plaster is hand applied to a smooth finish. Specify StarSilent "smooth" when a gypsum board look is desired.

StarSilent Plan

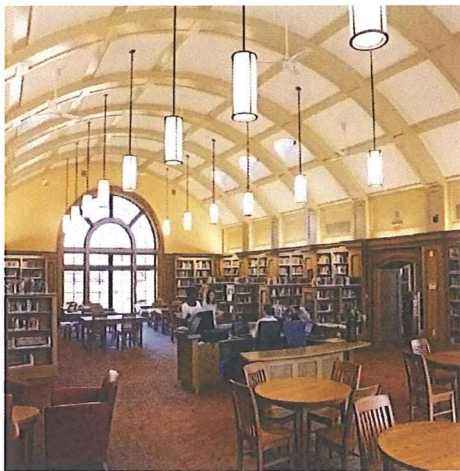
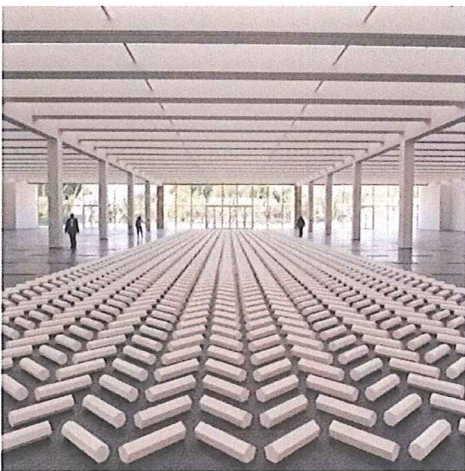
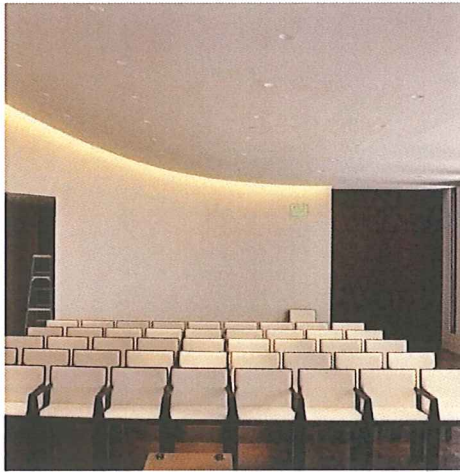
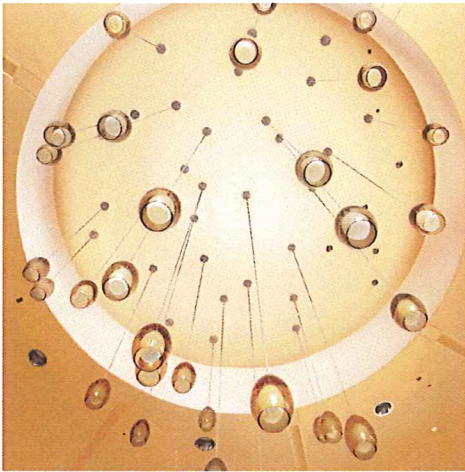
The StarSilent Plan is used for the StarSilent Superfine system, which is spray applied. The Plan is used to mud the screw heads, and a light coat is applied over the StarSilent Fix on the panel joints.

StarSilent Superfine Plaster

This plaster is spray applied to a light superfine texture that when applied at heights above 18 feet appears smooth. When this finish is desired, specify StarSilent "superfine".

Edge Beads/Trims

Contact Pyrok, Inc. for recommended edge beads and trims.





THE PRODUCT TECH DATA PROJECTS ABOUT PYROK CONTACT US [Q](#) smooth, seamless, sound absorbing

Green Building

[> Download Green Building Data](#)

Organized according to GreenFormat:

A Reporting Guide for Sustainable Criteria of Products*.

*GreenFormat is a format for organizing information pertaining to the environmental sustainability of building products. It is being developed by the Construction Specifications Institute (CSI). At the time this document was issued, GreenFormat has not been finalized.

1. MasterFormat 2004

Section:

09 25 00 – Acoustical Plastering

09 51 00 – Acoustical Ceilings

Product: StarSilent® Acoustical Plaster System

2. Manufacturer's information

Trade Name(s): StarSilent®

Product: Acoustical plaster system

Manufacturer: Pyrok, Inc.®

3. Product description

StarSilent acoustical plaster system consists of acoustical panels manufactured from recycled crushed glass finished with a thin, two-coat acoustical plaster finish. The system can also be installed on ceilings, walls, and other interior features.

If a suspension system is required for the installation of StarSilent, the sustainability of the suspension system can also be considered.

4. Regulatory agency sustainability approvals

Material Safety Data Sheet (MSDS) is available upon request.

5. Sustainable standards and certifications

StarSilent acoustical plaster system can impact the following prerequisites and credits under the USGBC's LEED-NC 2.2 program (www.usgbc.org).

- **EA Prerequisite 1 – Fundamental Commissioning of the Building Energy System**
Provide access doors if required for commissioning or maintaining building systems located above ceilings.
- **EA Credit 1 – Optimize Energy Performance**
Lighting Efficiency: The light reflectivity of StarSilent is 75.4 (measured in accordance with DIN 5036 – Radiometric and Photometric Properties of materials).
Thermal Insulation: R-value = 0.6 based on thermal conductivity 0.6246 BTU-in/hr-ft²-°F (0.09 W/mK) per DIN 52613 – Thermal Insulation Testings; Determination of Thermal Conductivity by the Tube Method when tested in a horizontal position.
- **MR Credit 2.1 and MR Credit 2.2 – Packaging:** 120 panels (31 sq. ft² each) on a pallet – 3720 sq. ft² per pallet. Plaster finish is packaged in recyclable plastic pails.
Scrap: See Articles 10 and 12, below.
- **MR Credits 4.1 and 4.2 – Recycled Content**
StarSilent panels weigh one pound per sq. ft. and are 96% (by mass) recycled glass granulate. The recycled glass granulate is made from 100% post-consumer waste.
- **EQ Prerequisite 3 – Minimum Acoustic Performance.****
StarSilent sound absorptive panels contribute to control of reverberation within classrooms. StarSilent can provide noise reduction coefficients (NRC) up to 0.80 (measured in accordance with ASTM C423 – Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method).
- **EQ Credit 4.2 – Low-Emitting Materials**
StarSilent products give off extremely low levels of VOCs: StarSilent Finish: 1 gram/liter
StarSilent Basecoat: 9 grams/liter (measured in accordance with procedures outline in CPA method 24 “Volatile Organic Content (VOC) of paints and related coatings.” The VOC was calculated using the equation referenced in ASTM D3960 “Determination of Volatile Organic Compound Content of Paints and related coating”)
- **EQ Credits 8.1 and 8.2 – Daylight and Views**
See comment on lighting efficiency at EA Credit 1, above.

6. Sustainable performance criteria

No criteria have been identified.

7. Sustainable composition of product

StarSilent panels are made from post-consumer recycled expanded glass granulate. See MR

Credits 4.1 and 4.3, above.

8. Material extraction and transportation

StarSilent products are shipped from Europe in containers to ports on the East Coast of North America. They are then transported by truck. Alternative arrangements can be made for large shipments. The light weight of the StarSilent system minimizes energy expended in transport.

9. Manufacturing phase

A small quantity of water is used during panel manufacturing to cool the press. No by-products are produced in the manufacturing process. No toxic or hazardous materials are used or produced. See MSDS.

10. Construction phase

Scrap: In typical installations, less than 5 to 10 percent of StarSilent panels are lost due to cut pieces that are too small to use elsewhere. Unused finish coat materials can be saved for use on other projects. The light weight of StarSilent materials simplifies handling and reduces installation energy use.

11. Facility operations phase

The acoustical properties of StarSilent ceilings improve the acoustic quality of a space. Studies have shown that building occupants are more satisfied and productive in optimal acoustic environments. StarSilent can provide noise reduction coefficients (NRC) up to 0.80 in accordance with ASTM C423 – Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

The StarSilent system is mold resistant.

12. Deconstruction / recycling phase

Panel scraps that are not covered with finish may be acceptable in mixed-glass recycling facilities. Demolition debris may be acceptable as a fill material or roadway base material.

13. Additional information

The StarSilent system is durable and can last the life of a building with minimal maintenance. The surface can be vacuumed with a stiff bristle brush. Small smudges can be removed with a soft pencil eraser. If necessary, the StarSilent finish can be re applied; existing finish coats can be removed by moistening and scraping. A ceiling can also be rejuvenated by applying low-VOC paint that is compatible with the ceiling's acoustical performance.

14. Certification

The information provided herein concerning the sustainability of StarSilent ceilings is true, correct, and verifiable.

Acoustical Data

The acoustical data represented here is the octave band data from the acoustical test reports. For the complete acoustical tests reports, please contact Pyrok Inc.

Some products have been tested with only duct tape on the edges of the acoustical samples instead of wood or metal frames. There should not be a gap between the test sample and edge frames. It is estimated that that acoustical data obtained in this manner is 10% – 20% higher than if the data were obtained with metal or wood frame negating edge absorption of the test specimen.

Note: When comparing acoustical data of different products it is important to note the mounting of the acoustical specimen as well as how the exposed edges are treated in the laboratory. The data reported here is the most conservative as the edges of the test samples have been sealed with a metal or wooden frame. In this manner there is no edge absorption. Edge absorption artificially inflates a product's acoustical value in the laboratory and this value is not representative of the field applied material. Some products have been tested with only duct tape on the edges of the acoustical samples instead of wood or metal frames. It is estimated that the acoustical data obtained in this manner is 10% – 20% higher than if the data were obtained with metal or wood frame negating edge absorption of the test specimen.

StarSilent Smooth System is hand applied to a smooth finish.

	<i>Octave Band Center Frequencies (Hertz)</i>						
Sound Absorption Coefficients	125	250	500	1000	2000	4000	NRC
Test Description	Hz	Hz	Hz	Hz	Hz	Hz	
StarSilent smooth plaster with 25mm StarSilent board with 16 inch air gap (E 400 mounting) 1, 2, 3	.55	.44	.86	1.08	.95	.94	.85
StarSilent smooth plaster with 15mm StarSilent board with 16 inch air gap (E 400 mounting) 1, 2	.61	.60	.52	.53	.58	.58	.55
StarSilent smooth plaster with 10mm StarSilent board with 16 inch air gap (E 400 mounting) 1, 2	.29	.69	.68	.74	.63	.45	.70

1. High acoustical absorption values can be achieved by placing 2.0 inch acoustical insulation above the StarSilent system. Contact Pyrok Inc. for this test data.

2. Contact Pyrok Inc. for acoustical test data for air gaps of 3/8 inch and 7/8 inch between the StarSilent panels and wall or ceilings substrate.
3. Contact Pyrok Inc. for acoustical data for direct mounting (no air gap) to substrate for the 25mm StarSilent system.

StarSilent Superfine Finish System is spray applied to a lightly textured finish that looks smooth at distances greater than 18 feet.

Sound Absorption Coefficients Test Description	Octave Band Center Frequencies (Hertz)						NRC
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
StarSilent superfine sprayed finish over 25mm StarSilent board with 16 inch air gap (E 400 mounting) 1	.45	.34	.69	1.08	1.00	1.05	.80
StarSilent superfine sprayed finish over 10mm StarSilent board with 16 inch air gap (E 400 mounting) 1	.65	.79	.58	.68	.86	.86	

1. High acoustical absorption values can be achieved by placing acoustical insulation above the StarSilent system. Contact Pyrok Inc. for additional data.

Product Data

[> Download Smooth Acoustic Systems Product Data](#) [> Download Superfine Acoustic Systems Product Data](#)

StarSilent Smooth Acoustic Systems Product Data

1. Description

StarSilent seamless acoustical plaster ceiling is comprised of a sound absorbing board that allows jointless areas of up to 1800 square feet. This board is manufactured with

StarSilent Superfine Acoustic Systems Product Data

1. Description

StarSilent seamless acoustical plaster ceiling is comprised of a sound absorbing board that allows jointless areas of up to 1800 square feet. This board is manufactured with 96%

96% recycled glass. The substrate is then coated with StarSilent smooth acoustic fiber-free plaster, resulting in an aesthetically pleasing and smooth finish.

2. Uses

StarSilent acoustical plaster system can be used as a finish system for walls and ceilings. The material is recommended for interior use only. Typically, StarSilent is specified for office interiors, lobbies, atriums, natatoriums, gymnasiums and other areas requiring acoustical performance without the look of ceiling grids. The finish is available in white or can be painted without the loss of sound absorbing qualities.

3. Applications

StarSilent acoustical systems are to be installed only by approved StarSilent applicators. An approved applicator list is available through Pyrok Inc. or your local representative.

4. Application Procedures Summary

StarSilent boards are to be mechanically fastened to a rigid framing system. The framing system should include 20 gauge $7/8$ framing channels on 400mm (15 $3/4$ inch) centers and must be approved by the applicator prior to installation of the board system. Drywall grid framing can be utilized but contact Pyrok, Inc. for details. StarSilent boards (10mm, 15mm, 25mm thicknesses) are installed in a staggered pattern and are joined together with StarSilent Adhesive. Perimeters of the StarSilent system must not be attached to walls or other surfaces (floating). Light fixtures and other items penetrating the ceiling must be reviewed and approved by the applicator prior to their use and installation in the ceiling. Once the boards are installed, then the StarSilent base coat and finish coat plaster can be installed.

post consumer recycled glass. The substrate is then coated with StarSilent Superfine acoustic fiber-free plaster, resulting in an aesthetically pleasing and Superfine finish. The plasters are 50% pre consumer recycled marble aggregate.

2. Uses

StarSilent acoustical plaster system can be used as a finish system for walls and ceilings. The material is recommended for interior use only. Typically, StarSilent is specified for office interiors, lobbies, atriums, natatoriums, gymnasiums and other areas requiring acoustical performance without the look of ceiling grids. The finish is available in white or can be painted without the loss of sound absorbing qualities. The Superfine finish is especially recommended when there are high ceiling heights (as full deck scaffolding is not required and the Superfine texture appears smooth) and where critical light may highlight the hand trowelling limitations of the smooth system.

3. Applications

StarSilent acoustical systems are to be installed only by approved StarSilent applicators. An approved applicator list is available through Pyrok Inc. or your local representative.

4. Application Procedures Summary

StarSilent boards are to be mechanically fastened to a rigid framing system. The framing system should include 20 gauge $7/8$ framing channels on 16 inch centers and must be approved by the applicator prior to installation of the board system. StarSilent boards are installed in a staggered pattern and are joined together with StarSilent Adhesive. Perimeters of the StarSilent system must not be attached to walls or other surfaces (floating). Light fixtures and other items penetrating the ceiling must be reviewed and approved by the applicator prior to their use

Drying times for StarSilent Adhesive, StarSilent Base and StarSilent Finish must be adhered to. The StarSilent Adhesive requires overnight drying and the StarSilent Base requires 36 hours dry time before the StarSilent Finish coat can be applied. Minimum temperatures should be maintained at 50 degrees Fahrenheit or higher.

5. Architectural Details

Critical Light – StarSilent acoustical systems offer a superior alternative to standard acoustical ceiling systems. With the look of flat plaster or drywall ceilings, the StarSilent acoustic system is a hidden high performance acoustical product. Daylight at the end of a corridor and windows and artificial light sources adjacent to a wall or ceilings are typical issues that should be discussed in the design stage.

Finish Surface – The StarSilent acoustic system provides a smooth and monolithic finish surface. However, one must be aware that the product is a slow setting plaster material applied by hand. Like all plaster materials, small blemishes and trowel marks may be present due to the nature of the product and its hand application. The aggregate in the product is coarse; therefore edges may have a slightly rougher appearance if examined closely. StarSilent is not a leveling plaster; therefore it will follow the contours of the StarSilent substrate board. If framing systems are not installed level, then the board and plaster will conform to the framing system. A tolerance of $3/32$ inches in 4 feet is acceptable.

6. Acoustical Performance

The StarSilent Acoustical System is mounted with an air gap to maximize sound absorbing performance. The gap can be as little as $3/8$

and installation in the ceiling. Once the boards are installed, then the StarSilent Superfine finish is applied in 3-4 light coats. Each coat requires 12 hours for drying. Minimum temperatures should be maintained at 50 degrees Fahrenheit or higher.

5. Architectural Details

Critical Light – StarSilent acoustical systems offer a superior alternative to standard acoustical ceiling systems. With the look of flat plaster or drywall ceilings, the StarSilent acoustic system is a hidden high performance acoustical product. Daylight at the end of a corridor and windows and artificial light sources adjacent to a wall or ceilings are typical issues that should be discussed in the design stage. The StarSilent Superfine finish is recommended when critical light will highlight blemishes in a smooth hand troweled system.

Finish Surface – The StarSilent Superfine acoustic system provides a lightly textured and monolithic finish surface, similar to a painted surface with a sand aggregate. StarSilent is not a leveling plaster; therefore it will follow the contours of the StarSilent substrate board. If framing systems are not installed level, then the board and plaster will conform to the framing system. A tolerance of $1/32$ inches in 4 feet is acceptable.

6. Acoustical Performance

The StarSilent Acoustical System is mounted with an air gap to maximize sound absorbing performance. The gap can be as little as $3/4$ inch (where ceiling heights need to be preserved) to $3\ 5/8$ inches or greater for wall assemblies. The acoustical performance is typically an NRC = 0.65 to 0.70. Acoustical tests reports are available upon request.

7. Cleaning & Repair

The StarSilent finish can be cleaned by vacuum brushing. Scratches and dents can be repaired,

inch (where ceiling heights need to be preserved) to 3 ⁵/₈ inches for wall assemblies or greater. The acoustical performance is typically an NRC = 0.55 to 0.90. Acoustical tests reports are available upon request.

7. Physical Performance

Pyrok StarSilent is the most durable of all the smooth, seamless acoustical plaster systems. It boasts an average compressive strength of over 200psi (ASTM E 761) which cannot be matched by plaster products using a fiberglass base for sound absorption. This makes StarSilent suitable for contact walls and low ceilings. StarSilent has a light reflectance value greater than 90 when tested to ASTM E 1477.

8. Cleaning & Repair

The StarSilent finish can be cleaned by vacuum brushing. Scratches and dents can be repaired but only by an approved StarSilent installer or Pyrok, Inc.

9. Warranty

Manufacturer shall warrant the material to be supplied, agreeing to repair/replace that which has cracked, flaked, dusted excessively, peeled or fallen from substrate or otherwise deteriorated to a condition where it would not perform effectively as intended for a sound absorbent purpose; due to defective materials and not due to abuse, improper maintenance, unforeseen ambient exposures or other causes beyond anticipated conditions by the manufacturer. The warranty period will be 5 years from date of substantial completion.

but only by an approved StarSilent installer or Pyrok Inc.

8. Warranty

Manufacturer shall warrant the material to be supplied, agreeing to repair/replace that which has cracked, flaked, dusted excessively, peeled or fallen from substrate or otherwise deteriorated to a condition where it would not perform effectively as intended for a sound absorbent purpose; due to defective materials and not due to abuse, improper maintenance, unforeseen ambient exposures or other causes beyond anticipated conditions by the manufacturer. The warranty period will be 5 years from date of substantial completion.

Specifications

Sample Performance Specifications Section 09220

Seamless Acoustical Plaster System

Part I: General

1.01 Work Included:

A. Furnish all labor, materials, equipment and services necessary to the completion of all field applied acoustical plaster panel system. Extent of work is indicated on drawings.

1.02 Related Work

1.03 Quality Assurance

A. Provide acoustical panels manufactured from recycled crushed glass and coated with plaster finish which has been tested to and achieved the following values:

Test Method / Authority	Property	Value
ASTM E605	Density	1.8 Lbs./Sq.Ft.
ASTM E84	Surface Burning Characteristics	15, 15
ASTM C423-84	Sound Absorption	NRC = 0.55 – 0.75
ASTM E761	Compression Strength	125 PSI
ASTM E90	Sound Transmisiion Class	30 STC

Part II: Products

2.01 System Description

- A. Recycled crushed glass board fastened to rigid ceiling framing.
- B. Base coat plaster.
- C. Top coat plaster with smooth finish to match submitted sample.

2.02 Materials

- A. StarSilent Panel System as supplied by Pyrok Inc., 914-777-7070, 914-277-5135 or approved equal.
- B. Finish shall be smooth finish.
- C. Color shall be white (or spray painted in field by others) or custom colored.

Part III: Execution

3.01 Inspection And Preparation

- A. Examine all substrate and condition.
- B. Building must be fully enclosed and weather tight.
- C. Do not apply finish coats when temperatures are below 55° F.
- D. Perform all patching and repairing of material required to be done due to cutting, etc. by other trades.

3.02 Application

- A. Apply in accordance with manufacturer's printed instructions:
 - 1. Install 1 ½ inch cold rolled channel on 4 foot centers and 20 gauge 7/8 inch hot channel on 400mm centers.
 - 2. Fasten StarSilent panels to ceiling or wall framing.
 - 3. Apply StarSilent fix to panel edges and

- B. Provide testing results and procedures from an independent and accredited acoustical testing laboratory. Edges of test samples must be sealed with wooden or metal frames.
- C. Installer: licensed or approved by manufacturer or distributor.
- D. Control Sample: Prior to installation of final coat, apply an area of 15 square feet for approval by architect of finish.

1.04 Submittals

- A. Submit manufacturer's installation instructions & test data substantiating compliance with quality assurance.
- B. Submit 3 inch square sample of StarSilent System showing texture and color for approval. Resubmit as required until approved.
- C. Submit manufacturer's written certification that product is 100% free of asbestos, polystyrene and cellulose.
- D. Submit certification of applicator licensing.
- E. Submit Independent Laboratory test data for specified finish and effect of painting.

1.05 Material Handling

- A. Store material in accordance with manufacturer's recommendations. Store in space where material is well protected from damage, moisture and freezing.

1.06 Warranty

- A. Manufacturer shall warrant the material to be supplied, agreeing to repair/replace that which has cracked, flaked, dusted excessively, peeled or fallen from substrate, or otherwise deteriorated to a condition where it would not perform effectively as intended for a sound absorbent purpose; due to defective materials and not due to abuse, improper maintenance, unforeseeable ambient exposures, or other

over fasteners.

- 4. Sand over fasteners and panel seams.
- 5. Apply StarSilent Top Basic over entire surface.
- 6. Apply StarSilent Top Finish over entire surface and trowel to smooth plaster finish.

- B. Coordinate work with other trades when work may be affected or have an impact on the installation.

3.03 Cleaning And Patching

- A. Remove fallout material immediately upon completion of the work in each area. Clean surfaces to remove evidence of soiling. Repair or replace damaged work surfaces to acceptable conditions.
- B. Coordinate work with other work, to minimize possibility of damage to system resulting from performance of subsequent work. As other units of work are completed in each area, patch damaged areas or surfaces of insulation by patching procedures as required to provide acceptable results.
- C. Provide natural or mechanical ventilation as required to properly cure the acoustical finish installation.
- D. Dispose of all waste materials in a proper and legal manner.

causes beyond anticipated conditions by manufacturer. The warranty period will be 5 years from date of substantial completion.

MSDS

[> Download All MSDS](#)

Material Safety Data Sheet

[> Download StarSilent Fix \(Adhesive\) MSDS](#)

[> Download StarSilent Base Coat MSDS](#)

[> Download StarSilent Board MSDS](#)

[> Download StarSilent FinishCoat MSDS](#)

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