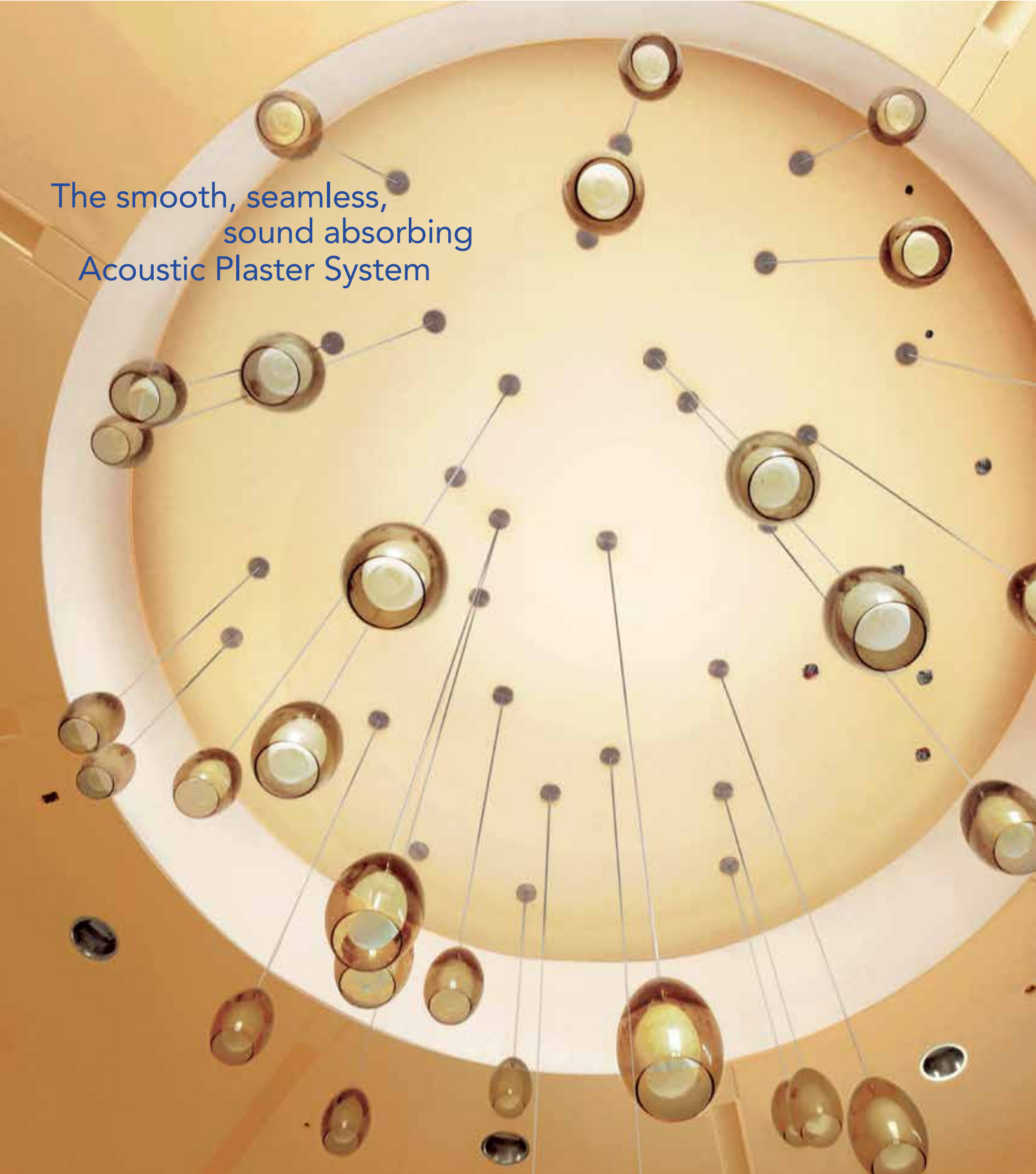


The smooth, seamless,  
sound absorbing  
Acoustic Plaster System



# The StarSilent System

The sound boards are made predominately of post-consumer, recycled crushed glass bottles

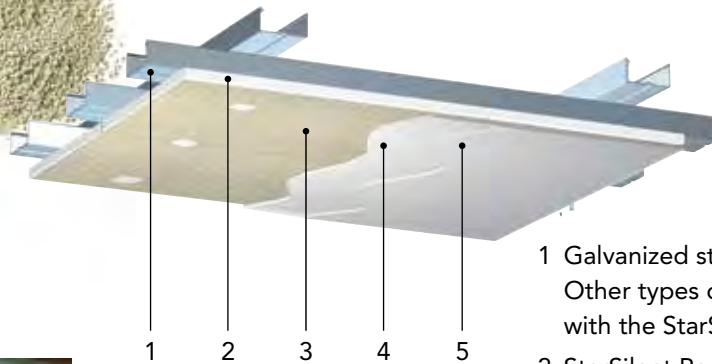
The recycled glass is heat processed to form the particles used to manufacture the StarSilent sound panels



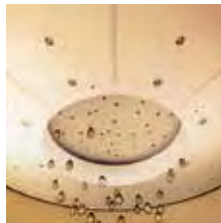
Pyrok, Inc. a leading manufacturer of sound absorbing plaster and cement finishes introduces Pyrok StarSilent.

The StarSilent system is a smooth, seamless, sound absorbing, durable plaster finish system for walls and ceilings.

The StarSilent panel is a sound absorbing panel that is made up of post-consumer, recycled, crushed glass bottles and coated with sound permeable plasters. This environmentally friendly product allows designers to utilize a seamless, gypsum board look with sound absorbing qualities. It is utilized in many configurations where gypsum board is typically utilized, and can be used on curved surfaces of any radius, as well as on compound curves.



- 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



**The Mather South**, Evanston, IL  
Architect: Solomon Cordwell Buenz / Interior Design Associates  
Acoustical Consultant: Shiner + Associates

**United States Courthouse**, Austin, TX  
Architect: Mack Scogin Merrill Elam Architects  
Acoustical Consultant: Shen Milsom Wilke

**Spring Central Hospital**, Spring, TX  
Architect: ArchiTECH Design

**Alice Tully Hall**, NY, NY  
Architect: Diller Scofidio + Renfro / FXFOWLE  
Acoustical Consultant: Jaffe Holden

The StarSilent system utilizes a sound panel that is composed of up to 96% post-consumer, recycled crushed glass bottles. The plasters are composed of 50% recycled marble aggregate. The panels are attached to rigid metal framing with zinc coated drywall screws. The edges of the panels are glued together using a special adhesive, which is also spread over the screw heads. After light sanding, the panels are first coated with a base coat plaster that requires a minimum of 36 hours to dry. The finish coat plaster is then applied to achieve a smooth, seamless, sound absorbing plaster wall or ceiling.



**IAC, NY, NY**  
 Architect: Frank O. Gehry Partners / Studios Architecture  
 Acoustical Consultant: Shen Milsom Wilke



**Lakewood Cemetery Garden Mausoleum,** Minneapolis, MN  
 Architect: HGA Architecture  
 Acoustical Consultant: Kvernstoen, Ronnholm & Associates

**Pico Library,** Santa Monica, CA  
 Architect: Koning Eizenberg Architecture  
 Acoustical Consultant: Veneklasen Associates

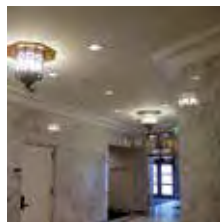
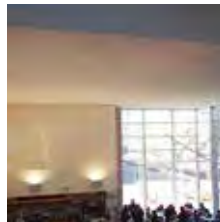
**Columbia University NW Corner Building,** NY, NY  
 Architects: Rafael Moneo / Davis Brody Bond  
 Acoustical Consultant: Arup

**Montgomery Bell Academy,** Nashville, TN  
 Architect: Hastings Architecture Associates  
 Acoustical Consultant: Charles M. Salter Associates

**John L. O'Brien Building,** Olympia, WA  
 Architect: Ambia Architects

**Marist College Student Center,** Poughkeepsie, NY  
 Architect: Robert A.M. Stern Architects  
 Acoustical Consultant: Jaffe Holden

**Rockefeller University,** NY, NY  
 Architect: Mitchell Giurgola Architects  
 Acoustical Consultant: Cerami & Associates



# Advantages

- No gypsum board substrate is required.
- The structural integrity of the system is not compromised by the lack of gypsum board in the assembly.
- It can be used on contact walls. We recommend that stud spacing on walls below a height of 6 feet be 8 inches on center. The recycled glass StarSilent panels provide a sturdy surface resistant to modest damage.
- The StarSilent plasters are spread over the rigid StarSilent panel. The levelness of the finish is superior to other systems, where the plasters are troweled over resilient fiberglass panels.
- It can be painted without loss of its sound absorbing quality. The paint must be spray applied in 2 light coats from a distance of 24 inches. Painting must be done with light coats, as excessive painting can highlight micro textures in plaster finish. Acoustic data and painting instructions are available from Pyrok, Inc.
- It has extremely low VOC content (almost zero) and the highest percentage of recycled content of any smooth, seamless, acoustic plaster system.
- It can be integrated with a radiant heating and cooling system.

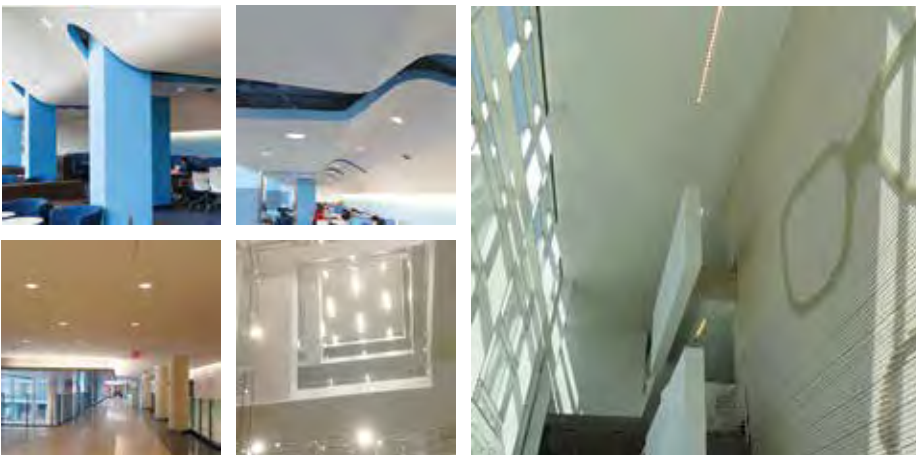


**Audie Murphy Memorial Veterans Hospital** Grapevine, TX  
 Architect: HKS Architects  
 Acoustical Consultant: WJHW

**Virginia Museum of Fine Arts,** Richmond, VA  
 Architect: Rick Mather Architects / SMBW Architects  
 Acoustical Consultant: Polysonics



**North Las Vegas City Hall,** North Las Vegas, NV  
 Architect: Fentress Architects  
 Acoustical Consultant: VSA n Associates



**University of Pennsylvania Education Commons,** Philadelphia, PA  
 Architect: Joel Sanders Architect  
 Acoustical Consultant: Metropolitan Acoustics

**Johns Hopkins Hospital,** Baltimore, MD  
 Architect: Perkins + Will  
 Acoustical Consultant: Cerami & Associates

**Dugoni School of Dentistry,** San Francisco, CA  
 Architect: Smith Group  
 Acoustical Consultant: Rosen Goldberg Der & Lewitz

**UCLA Wasserman Building,** Los Angeles, CA  
 Architect: Richard Meier & Partners Architects  
 Acoustical Consultant: Newson Brown Acoustics

- It is the most installer friendly of any smooth, seamless, acoustic plaster system.
- Highest compressive strength of any smooth acoustic plaster system. Higher compressive strength means higher durability.
- Easiest system to patch and repair. If required, Pyrok, Inc. will send an experienced technician to the project to assist or accomplish difficult repairs.
- As the product is detailed in a similar manner as gypsum boards for trimless lights, trimless diffusers, and access panels, the architectural details are simpler and the field execution superior.

- StarSilent has the thinnest assembly thickness of any acoustic plaster system. A benefit of this is the ease of mounting artwork or accessories through it on ceilings and wall applications.
- Less cost and quicker install time than other systems, as gypsum board is not required, and drying times for the plasters are very short.
- Pyrok, Inc. is present on site to assist its installers with their installations. Pyrok, Inc. offers a 5-year warranty.



**Four Seasons Hotel**, Toronto, Ontario  
 Architect: Page + Steele IBI Group Architects / Yabu Pushelberg  
 Acoustical Consultant: Swallow Acoustic Consultants

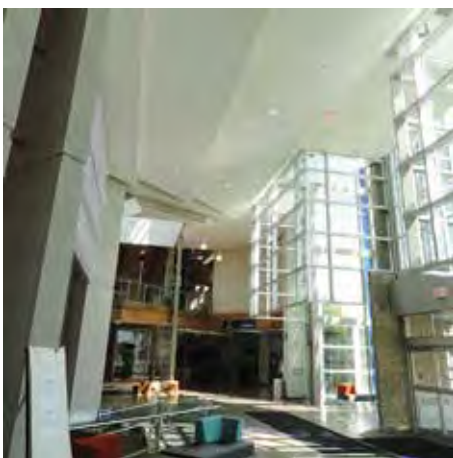
**Café Boulud**, Toronto, Ontario  
 Architect: Page + Steele IBI Group Architects / Yabu Pushelberg  
 Acoustical Consultant: Swallow Acoustic Consultants



**St. Joseph Seminary**, Edmonton, Alberta  
 Architect: Dialog  
 Acoustical Consultant: FFA

**Genesis Wellness Center**, Calgary, Alberta  
 Architect: Gibbs Gage Architects  
 Acoustical Consultant: FFA

**Rockefeller University Founders Hall**, NY, NY  
 Architect: Kliment Halsband Architects  
 Acoustical Consultant: Kirkegaard Associates



# Components

## 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".

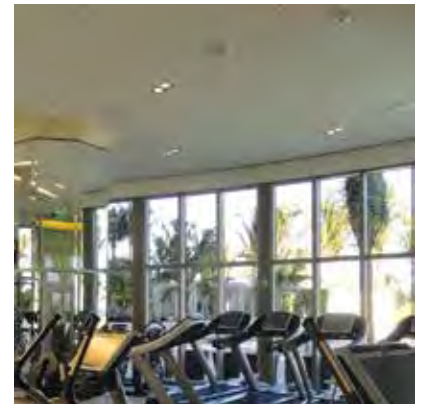
## Edge Beads/Trims

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



**Montage**, Park City, UT  
Architect: HKS  
Acoustical Consultant: Walsh Norris & Associates

**Princeton University Firestone Library**, Princeton, NJ  
Architect: Frederick Fisher and Partners / Shepley Bulfinch  
Acoustical Consultant: Acentech

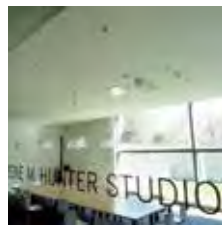


**St. Regis Hotel**, Miami Beach, FL  
Architect: Yabu Pushelberg  
Acoustical Consultant: Cerami & Associates

**The Sterling & Francine Clark Art Institute**, Williamstown, MA  
Architect: Tadao Ando Architect & Associates / Gensler  
Acoustical Consultant: Arup

**Taunton Trial Court**, Taunton, MA  
Architect: Leers Weinzapfel Associates  
Acoustical Consultant: Cavanaugh Tocci Associates

**California Academy of Sciences**, San Francisco, CA  
Architect: Renzo Piano Building Workshop / Stantec Architecture  
Acoustical Consultant: Arup



# Framing

## Types of Framing Systems

The StarSilent system utilizes the following framing systems:

- 1½ inches cold rolled channel with 7/8 inch hat channel.
- A T-bar grid system, preferably an exterior stucco/plaster T-bar grid system.
- Metal stud or wood framing

It is preferable to frame for the StarSilent panels on 15¾ inch centers for ceilings and walls above 6 feet and 77/8 inch centers for walls below 6 feet. This is due to the metric sizing of the StarSilent panels. Framing at 16 inch centers is also easily handled with the StarSilent panels.

The vertical suspension for the above framing systems should be rigid, and sometimes will require bracing or kickers.



**Church Pension Group, NY, NY**  
Architect: Beyer Blinder Belle Architects  
Acoustical Consultant: Acoustic Dimensions

# Acoustical

## Acoustical Performance

The StarSilent system has two finishes, smooth and superfine. The StarSilent panels come in 10mm, 15mm and 25mm thicknesses. The NRC values range from 0.55 to 0.90. Contact Pyrok, Inc. for NRC data, octave band sound absorption coefficients, and laboratory conducted acoustical test reports.

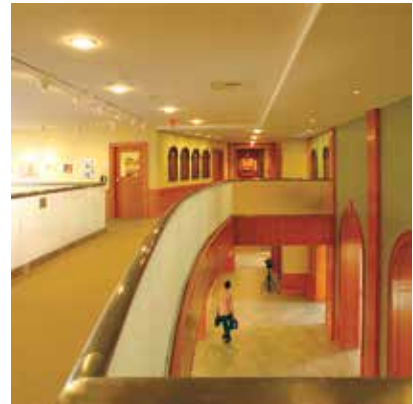
**Newport Beach Civic Center,** Newport Beach, CA  
Architect: Bohlin Cywinski Jackson  
Acoustical Consultant: Charles M. Salter Associates

**Berkshire School,** Sheffield, MA  
Architect: Finegold Alexander + Associates  
Acoustical Consultant: Acentech

**Hackley School,** Tarrytown, NY  
Architect: Peter Gisolfi & Associates  
Acoustical Consultant: Harvey Marshall Berling Associates

**USC Heritage Hall,** Los Angeles, CA  
Architect: DLR Group  
Acoustical Consultant: Acoustical Engineering Services

**Children's Specialty Care Hospital,** Grapevine, TX  
Architect: HKS  
Acoustical Consultant: WJHW





**Burchfield Penney Art Center**, Buffalo, NY  
Architect: Gwathmey Siegel & Associates Architects  
Acoustical Consultant: Harvey Marshall Berling Associates

**PYROK™**

121 Sunset Road  
Mamaroneck, NY 10543  
914-777-7070 Tel  
914-777-7103 Fax

36 Butler Hill Road  
Somers, NY 10589  
914-277-5135 Tel  
914-276-3990 Fax

24 Barry Drive NE  
White, GA 30184  
770-427-9765 Tel  
770-427-9706 Fax

info@starsilent.com  
www.starsilent.com  
www.pyrok.com

