

Environmental Sustainability of StarSilent Acoustical Plaster from Pyrok, Inc.

Organized according to Green Format: A Reporting Guide for Sustainable Criteria of Products.*

1. MasterFormat 2004

09 25 00 - Acoustical Section:

Plastering

09 51 00 - Acoustical

Ceilings

StarSilent® acoustical Product:

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

New York City Department of Buildings Report of Materials and Equipment Acceptance Division, MEA #279-05-M.

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

5. Sustainable standards and certifications

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



CERTIFIED **APPLICATOR**

Phone: 631.953.6990 Fax: 631.953.6991 www.idthermal.com AND www.iucnerme....

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-oF (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 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 g ranulate. 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

(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 coasting")

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 4.2, 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.

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 reapplied; existing finish coats can be removed by moistening and scraping.

14. Certification

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

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Name: Howard Podolsky Title: General Manager

*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. For additional information, see www.greenformat.com or http://www.csinet.org/s csi/docs/13700/13 644.pdf.

**EQ Prerequisite 3 – Minimum Acoustic Performance is currently only located in the 'LEED for Schools' Program...



StarSilent panels are 96% recycled glass



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