



1. Product Name

- ESSI Silentspace® Acoustical Wall Panels

2. Manufacturer

ESSI Acoustical Products Company
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3. Product Description

Basic Use

ESSI Silentspace Acoustical Wall Panels solve interior acoustical and aesthetic needs. Wall panels are available in a wide variety of standard in-stock and custom shapes, sizes, finishes, graphics, edges, core construction, mountings and performance features.

Wall panels can be flat, curved or irregular. Almost any edge detail and fabric or vinyl finish is available. Panels are used in full or partial wall layouts or as spot strips and panels. Silentspace treatments offer up to 100 percent absorption of room noise and are ideal for use in:

- Schools
- Performing art auditoriums
- Hospitals
- Offices

Composition and Materials

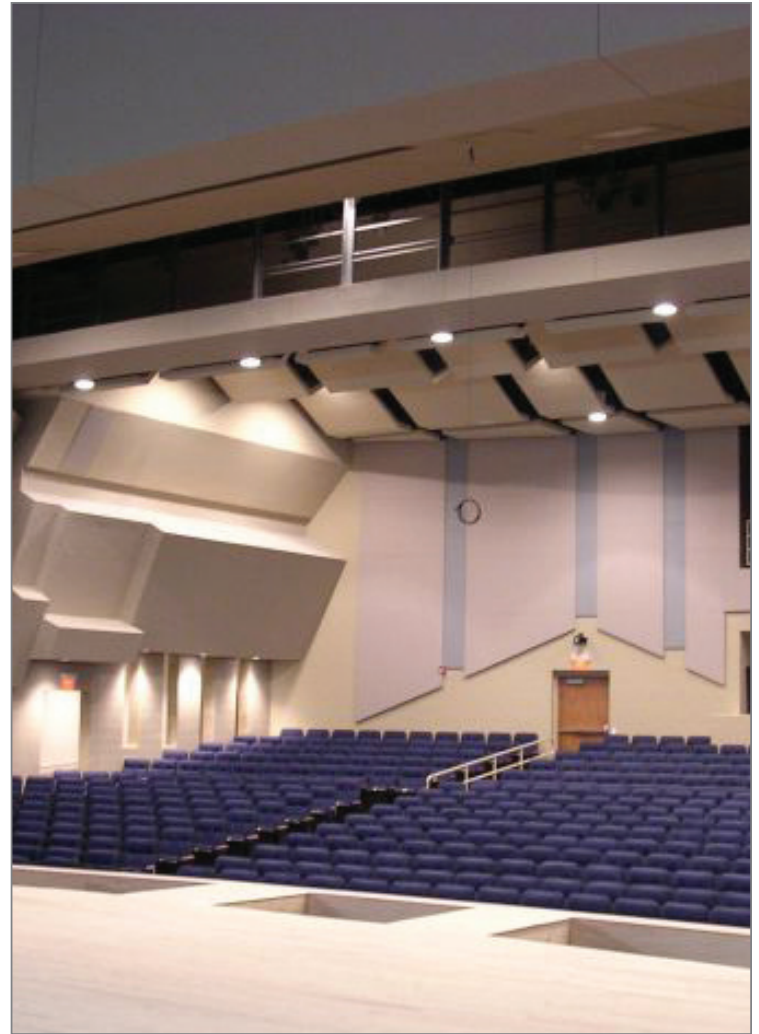
ESSI Silentspace Wall Panels use rigid fiberglass as primary, nonflammable core material. The greater the thickness, the higher the acoustical absorption (NRC rating).

- Optional 1/8 inch high density impact, tackable fiberglass surface
- Optional core material options include 1/8 inch (3.2 mm) perforated co-polymer ultra impact tackable surface providing additional impact resistance and surface usage.

Wall panels are covered with fabric or vinyl facing bonded directly to the core face. A chemically-hardened fiberglass edge is standard. ESSI Wall Panels are available with a galvanized steel or aluminum frame edges added strength and durability.

Coverings

- Fabrics—Guilford FR 701® Style 2100 (Terratex®)



- Perforated vinyl—Genon® Type II
- Custom—ESSI Wall Panels may be covered with virtually any upholstery-weight fabric or vinyl; added customizing may be applied to wallcoverings for decor and signage; consult with manufacturer for details concerning factory-applied digital imaging custom graphics or for additional information

Sizes

Silentspace Wall Panels are available up to 48 × 120 inches (1219 × 3048 mm) (W × H). Larger sizes and custom orders are available on request.

Thicknesses

- Fiberglass—1, 1½, 2, 3 or 4 inch (25, 38, 51, 76, or 102 mm)
- Mineral board—½ or ¾ inch (12.7 or 19 mm)
- Optional tackable, high impact finish: add 1/8 inch

4. Technical Data

Applicable Standards

American Society for Testing and Materials (ASTM)

- ASTM C423—Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- ASTM E84—Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E795—Standard Practices for Mounting Test Specimens During Sound Absorption Tests

Sound Performance

Minimum NRC (noise reduction coefficient) when tested to ASTM C423 and ASTM E795:

- 1 inch (25 mm) thick panel—0.80
- 2 inches (51 mm) thick panel—1.05
- 1½ inches (28.6 mm) thick tackable panel—0.80
- 2½ inches (54 mm) thick tackable panel—0.90
- 3 inches (76 mm) thick panel—1.10
- 4 inches (102 mm) thick panel—1.10
- 3½ inches (79.4 mm) thick tackable panel—1.10
- 4½ inches (104.8 mm) thick tackable panel—1.10

Fire Performance

All products are Class A Flame-rated:

- Surface burning characteristics (ASTM E84), fabric covered panel—Flamespread 25, smoke developed 105
- Surface burning characteristics (ASTM E84), vinyl covered panel—Flamespread 25, smoke developed 40

Environmental Considerations

- Guilford of Maine panel fabrics are made from 100 percent recycled polyester or renewable materials (as are many other manufacturers' panel fabrics) and can be recycled or composted at the end of their service life
- The fiberglass core component material of Silentspace incorporates is a proprietary binder based on rapidly renewable bio-based materials, contains no phenol, formaldehyde, acrylics or artificial colors
- Fiberglass components are 40 percent recycled
- ESSI Silentspace Acoustical Wall Panels may meet eligibility requirements for LEED® 2009 MR Credit 4: Recycled Content or MR Credit 6: Rapidly Renewable Materials

5. Installation

Preparatory Work

Materials should be delivered in original, unopened cartons and stored in an enclosed shelter providing protection from



damage and exposure to the elements. Before installation, panels should be stored in immediate installation area for sufficient time to stabilize temperature and humidity conditions during installation and anticipated occupancy.

Do not begin installation of wall panels until all wet work such as concrete, plastering and terrazzo is completely and thoroughly dried out.

Do not proceed with installation of wall panels until building is closed in and the HVAC system is capable of maintaining a temperature of 60–85 degrees F (16–29 C) at not more than 70 percent relative humidity.

Handle and store products according to ESSI Acoustical Products Company recommendations.

Methods

- Mechanical clips—two-part panel Z-clips, with one part attached to back of panel and the other part to wall
- Impaling plates—metal impaling plates mechanically attached to wall
- Velcro® fasteners—two-part Velcro fasteners adhesively attached to wall and to back of panels
- Magnetic hangers—two-part magnetic tape system with magnetic tape adhesively attached to wall and to back of panel
- Adhesive—glue-up method using a manufacturer recommended contact adhesive applied to back of panels

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Precautions

A leveling angle should always be used at the bottom edge of panels to ensure a true, level lineup of panel edges.

Building Codes

Current data on building code requirements and product compliance may be obtained from ESSI Acoustical Products Company technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. Availability and Cost

Availability

Contact ESSI Acoustical Products Company for information on product availability.

Cost

Budget installed cost information may be obtained through the manufacturer. Contact ESSI Acoustical Products Company for more information.

7. Warranty

For a period of two (2) years from the date of delivery, ESSI Acoustical Products (EAP) warrants the products to be free from defects in material and workmanship. Buyer's sole and exclusive remedy against EAP shall be for the repair or replacement of defective products. Buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property or any other incidental or consequential loss) shall be available. Buyer expressly waives all other

warranties, expressed or implied, including, but not limited to, the implied warranties of fitness for a particular purpose or merchantability; EAP specifically disclaims any such warranties. Failure to give EAP immediate written notice of any allowable claim regarding the product shall operate to relieve EAP of liability of such claim. Buyer acknowledges and agrees that there are no warranties regarding the products or EAP that extend beyond the face hereof.

8. Maintenance

Cleaning instructions vary depending on panel fabrics and service conditions. Contact manufacturer for more information.

9. Technical Services

A staff of factory trained personnel offers design assistance and technical support. For technical assistance, contact ESSI Acoustical Products Company.

10. Filing Systems

- CMD
- Manu-Spec®
- Additional product information is available from the manufacturer upon request