

ACOUSTICAL SURFACES, INC.
ECHO ELIMINATOR – BONDED ACOUSTICAL COTTON

SECTION 09841 – BONDED ACOUSTICAL COTTON

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes bonded acoustical cotton used as **[acoustic wall panel] [hanging baffle]**.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions.
- B. [LEED Submittals: Product data showing recycled content.]**
- C. Samples: Submit 2 samples of 6" x 6", showing full range of exposed texture to be expected in completed work.
- D. Test Reports: Upon request submit certified test reports from recognized test laboratories.
- E. Certificates: Submit manufacturer's certificate that products meet or exceed specified requirements.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

1.5 DELIVERY, STORAGE & HANDLING

- A. Delivery: Deliver material in the manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Provide labels indicating brand name, source of procurement, style, size and thickness.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

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1.6 MAINTENANCE

- A. Extra Materials: Provide [**Specify percentage**] for use by owner in building maintenance and repair.
- B. Provide new unopened cartons of extra materials, packaged with protective covering for storage and identified with appropriate labels.

1.7 WARRANTY

- A. Warranty Period: One year.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Bonded Acoustical Cotton:
 - 1. Echo Eliminator by Acoustical Surfaces Inc. (Basis of Design)
 - a. 123 Columbia Court North Suite 210.
 - b. Chaska, MN 55318
 - c. (800) 448 - 0121.
 - d. www.AcousticalSurfaces.com
 - 2. Or equal.

2.2 BONDED ACOUSTICAL COTTON

- A. Material: Manufactured from recycled cotton fiber, which shall be capable of being recycled upon completion of its useful life.
- B. Acoustical panels shall be impact resistant.
- C. Thickness:
 - 1. 1" thickness panels available in #3 lb. or #6 lb. per cubic foot.
 - 2. **[2" thick panels available in #3 lb. density only].**
- D. Color: **[White] [Marble Light Blue] [Pure Blue] [Navy Blue] [Beige] [Hunter Green] [Light Grey] [Burgundy] [Charcoal] [As selected by Architect].**
- E. Edge, Square.
- F. Sizes: Nominal **[2' x 4'] [12" x 12"] [2' x 2'] [4' x 4'] [4' x 8'] [As indicated on Drawings].**
- G. Density:
 - 1. 3 pounds/cubic foot, and 6 pounds/cubic foot.
 - 2. **[2" panels only available in 3 pcf density].**

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- H. Mounting Style: **[A] [C-20] [C40] [D-20] [Select mounting style]** Provide all fasteners, **[Furring strips]** and manufacturer recommended **[Adhesives]** for complete single source installation.
- I. Applications: Suited for gymnasiums, auditoriums, classrooms, music rooms, arenas & stadiums, churches, offices, computer rooms, restaurants/cafeterias, residential, concert halls & theaters, pro audio, gun ranges, manufacturing plants, machine enclosures, water treatment plants, multi-purpose rooms, and community centers.
- J. Accessories:
 - 1. Adhesives as recommended by manufacturer.
- K. Flammability:
 - 1. ASTM E84, Class A. Flame Spread: 5.
 - 2. Smoke Developed: 35.
- L. Noise Reduction Coefficient (NRC) rating:
 - 1. For direct adhesive or mechanical fastener mounting Type A Mounting **[1” NRC .80] [2” NRC 1.05]**.
 - 2. **[For other mounting styles and acoustical performance, select product and data from product literature at ASI web site at www.acousticalsurfaces.com].**
 - 3. **[For acoustical analysis to determine quantity of acoustical panels required and prediction of resulting reduction in reverberation and reflected Noise Reduction consult with ASI on Help-Line at 1-(800) 448-3134].**

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Site Verification of Conditions:
 - 1. Examine surfaces scheduled to receive furred out or directly attached acoustical units for unevenness, irregularities and dampness that would affect quality and execution of work.
 - 2. Do not proceed with installation of acoustical panels until unacceptable conditions are corrected.
- B. Environmental Requirements:
 - 1. Do not install acoustical panels until building is closed in and HVAC system is operational.

3.2 INSTALLATION

- A. General: Do not begin installation until materials sufficient to complete an entire room are received and are ready for installation.
 - 1. Field cut acoustical panels as required, in accordance with manufacturers recommended procedures and equipment.
 - 2. Install acoustical wall panels in accordance with quantity and lay-outs as shown on the architectural drawings.

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3. Acoustical wall panels shall be adhesively or mechanically mounted in accordance with manufacturer's recommendations and/or as detailed on the drawings.

B. Manufacturer's Instructions:

1. Comply with the instructions and recommendations of the acoustical panel manufacturer.
2. Install materials in accordance with governing regulations, fire resistance rating requirements and industry standards applicable to work.

3.3 CLEANING

- A. Clean exposed surfaces of acoustical panel to comply with manufacturer's instructions for cleaning.
- B. Remove and replace tiles, which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

3.4 PROTECTION

- A. Protect installed work from damage due to subsequent construction activity, including temperature and humidity limitations and dust control, so that the work will be without damage and deterioration at the time of acceptance by the Owner.

END OF SECTION 09841