

SECTION 09842 –ACOUSTICAL COTTON FIBER COMPOSITE PANEL

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 acoustical cotton fiber composite panel 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.

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. Acoustical Cotton Fiber Composite Panel:
 - 1. Echo Eliminator 8 lb. Composite 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 ACOUSTICAL COTTON FIBER COMPOSITE PANEL

- A. Material: 8 lb. bonded acoustical cotton), recyclable, fiberglass free, high performance absorption combined with STC value.
- B. Pattern: Soft textured surface, foil FRK one side.
- C. Applications: 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.
- D. Thickness: 1 inch.
- E. Sizes: 2' x 4'.
- F. Color: Light blue, FRK on opposite side.
- G. Foil/Scrim: 12 micron foil (0.00047 inch) - 6.5 x 12.5 fiberglass scrim – 20gsm PE.
- H. Accessories:
 - 1. Adhesives as recommended by manufacturer.
- I. Flammability:

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1. ASTM E84, Class A. Flame Spread: 5.
 2. Smoke Developed: 35.
- J. Acoustical Performance for 1 inch thick panel:
1. NRC: .75.
 2. STC: 17.

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.
 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.

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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 09842