

SECTION 09845 – SOUNDPROOFING BACKER

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 soundproofing backer.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions.
- B. [LEED Submittals: Product data showing recycled and VOC content.]**
- C. Samples: Submit 2 samples of 6" x 6".
- 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. Soundproofing Backer:
  - 1. Acousti-Board Ultra 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](http://www.AcousticalSurfaces.com)
  - 2. Or equal.

2.2 SOUNDPROOFING BACKER

- A. Material: Synthetic fiber. Synthetic fiber binder materials.
- B. Sustainable Features:
  - 1. Recycled Content: Certified 95% Post-manufacturer/Pre-consumer recycled material, contributing to LEED MRc4.1-4.2 credits.
  - 2. Volatile Organic Compounds: Certified SCS Indoor Advantage – Gold. Passed Section 01350 VOC test to comply with Collaborative High Performance Schools (CHPS) and Office Spaces.
- C. Applications: Soundproof backer for Wallmate, flooring underpayment, behind drywall and other applications.
- D. Thickness: 0.50" (+/- 2%).
- E. Size: [**2' x 4'**] [**4' x 8'**] [**As indicated on Drawings**].
- F. Weight: 120oz/sq yd.
  - 1. 4' x 8' sheets: Approx. 25 lbs. (68 sheets/pallet at 1700lbs., 12 pallets/tkld).
  - 2. 2' x 4' sheets: Approx. 6.25 lbs (272 sheets/pallet = 1700lbs., 24 pallets/tkld).
- G. Density: 20 lbs/cubic feet.

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- H. R-Value:
  - 1. 1/2 inch thickness: 2.09 hr-square feet-degree F/Btu (4.19/inch).
- I. Flammability: Meets or exceeds the ASTM E-84-07 parameters for ‘Class A’ Interior Wall & Ceiling Finish Category.
- J. Acoustical Performance:
  - 1. Impact Insulation Class (IIC) The method is designed to measure the change in impact sound transmission of a floor-ceiling assembly in a controlled laboratory environment. ASTM E2179-03. IIC = 20.
  - 2. Sound Transmission Class. (STC) The sound-insulating property of a partition element is expressed in terms of the sound transmission loss. (Stand alone product – no ceiling or wall assembly) ASTM E90-04, ASTM E413-04 STC = 15.
  - 3. Noise Reduction Coefficient (NRC) A single number rating obtained by taking the arithmetic average of the absorption coefficients at specified frequencies, rounded to the nearest 0.05. NRC = 0.50.
  - 4. Sound Absorption Average (SAA) A single number rating obtained by taking the arithmetic average of the one-third octave bands at specified frequencies, rounded to the nearest 0.01. SAA = 0.49.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Site Verification of Conditions:
  - 1. Do not proceed with installation of soundproofing backers until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Manufacturer’s Instructions:
  - 1. Comply with the instructions and recommendations of the soundproofing backer manufacturer.
  - 2. Install materials in accordance with governing regulations, fire resistance rating requirements and industry standards applicable to work.

3.3 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 09845