

SECTION 085676 – ACOUSTICAL WINDOW INSERTS

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 the following:
 - 1. Acoustical window inserts.

1.3 SUBMITTALS

- A. Product Data.
- B. Shop Drawings: Submit shop drawings in detail of all work in scale to indicate size, location and attachment methods required for the installation of the required work.
- C. Test Data: Submit tests establishing compliance with all performance characteristics of the specification.

1.4 QUALITY ASSURANCE

- A. Manufacturer: The manufacturer shall have a minimum of three years experience in manufacturing window inserts and shall have completed at least five projects of the scope and quality required by this project.
 - 1. The manufacturer shall have tested the window inserts for acoustical values specified.
 - 2. The manufacturer shall have complete installation drawings and instructions to insure a quality installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS/MASTER DISTRIBUTOR

- A. Acoustical Window Inserts:
 - 1. Climate Seal a Division of Acoustical Surfaces, Inc. (Basis of Design)
 - a. 123 Columbia Court North, Suite 201, Chaska, MN 55318.
 - b. 952-448-5300, Fax: 952-448-2613.
 - c. Toll Free: 1-800-448-3134.
 - 2. Or equal.

Acoustical Window Inserts
Climate Seal.

Product: Acoustic Series Climate Seal by Acoustical Surfaces, Inc.

3. Exterior grade PVC extrusion with impact resistance and U.V. stabilization for durability and strength.
 4. 3/4 inch wide x 1 inch Deep frame.
 5. Receive up to 5/16 inch thick glazing.
 6. Mitered Corners (except extreme out-of-square applications) to ensure maximum performance and sound abatement.
 7. High performance “closed cell” acoustical weather strip foam to further dampen sound vibrations between the primary window frame and the Climate Seal’s steel attachment angle.
 8. Only 1/2 the weight of other glass manufacturers.
 9. Size: As indicated on Drawings.
 10. Mounting Methods: Surface or In-Jamb as indicated on Drawings.
 11. Molding and Frame:
 - a. Standard: Factory painted White or Dark Chocolate Brown as selected by Architect.
 - b. Custom: Wood veneer as selected by Architect.
 12. Acrylic glazing/glass: Tinted, privacy, abrasion resistance, or museum quality UV filtering as selected by Architect.
 - a. American National Safety Glazing Standard ANSI Z97.1.
 - b. International Conference of Building Officials (ICBO).
 - c. Uniform Building Code (UBC).
 - d. UL Classifications; 94HB, HBE162, 746C, UV Light.
- B. Window Assembly Tested Data: Acoustic Series boasts up to 80% sound reduction with an STC rating as high as 49.
1. Double Hung Window:
 - a. Without acoustical window insert: STC 24.
 - b. With acoustical window insert: STC 37.
 2. Triple Casement Window:
 - a. Without acoustical window insert: STC 27.
 - b. With acoustical window insert: STC 44.
 3. Store Front/Hotel Fixed Window:
 - a. Without acoustical window insert: STC 33.
 - b. With acoustical window insert: STC 51.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate, and operational clearances.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

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3.2 INSTALLATION

- A. Installer: The installer shall have a minimum of (5) five installation experience using Climate Seal magnetic window inserts (Certified Climate Seal Installer) or approved equal. If this qualification is not met and when applicable, a Certified Climate Seal Installer should be incorporated into the project to ensure order accuracy, proper installation techniques, etc.
- B. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing window inserts.
- C. Install window inserts level, plumb, square, true to line, without distortion, anchored securely in place, and in proper relation to adjacent construction.

END OF SECTION 085676