ALTO Acoustical Wood Panels

Kinetics Noise Control, Inc.

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**SECTION 09 84 33.11**

**SOUND-ABSORBING WALL PANELS**

**PART 1 GENERAL**

1.01 SECTION INCLUDES

* 1. Sound-absorbing wall panels, custom-fabricated and wood-finished.

1.02 REFERENCES

1. ASTM International:
2. ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
3. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
4. ASTM E795 Standard Practices for Mounting Test Specimens During Sound Absorption Tests.

1.03 SUBMITTALS

1. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
2. Product Data: Submit product data sheet, for specified products.
3. Shop Drawings: Submit shop drawings showing layout, edge profiles and panel composition, finish and perforation pattern as well as installation details.
4. Samples: Submit selection and verification samples of finishes, colors and patterns.
5. Test Reports: Certified test reports showing compliance with specified performance requirements.
6. Standard Systems: Submit certified copies of previous test reports substantiating performance of system in lieu of retesting.

1.04 DELIVERY, STORAGE, AND HANDLING

1. General: Comply with Division 1 Product Requirements Section.
2. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
3. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.05 PROJECT CONDITIONS

1. Environmental Requirements: Do not install panels until wet work, such as concrete and plastering, is complete; the building is enclosed; and the temperature and relative humidity are stabilized at 60 - 80 degrees F (16 - 27 degrees C) and 35% MINIMUM RH and 55% MAXIMUM RH, respectively. All products constructed with wood or wood fiber content must be stored for at least 72 hours in the controlled environment specified herein prior to installation to allow the materials to stabilize.

**PART 2 PRODUCTS**

2.01 SOUND-ABSORBING WALL PANELS

1. Manufacturer: Kinetics Noise Control, Inc.
2. Contact: PO Box 655, 6300 Irelan Place, Dublin, OH 43017; Telephone: (614) 889-0480; Fax: (614) 889-0540; E-mail: intsales@kineticsnoise.com; Web site: www.kineticsnoise.com.
3. Substitutions: No substitutions permitted.

2.02 MANUFACTURED UNITS

*NOTE TO SPECIFIER - Unless using both styles, select either* ***(A) Planks*** *or* ***(B) Panels*** *and delete the section not being specified.*

1. Alto Wood *Planks*
2. Alto planks supplied in [96 inches (192mm)] [120 inches (3048mm)] lengths. Size: 3/4 inch (19mm) thick x 7-9/16 inch (192mm) wide. Planks will be backed with a black acoustically transparent scrim to prevent fiberglass insulation color from showing through the perforations.

Field cut planks as required and install as shown on drawings. Tongue and groove edges allow continuous joining of planks with tight seams to create a smooth, flat perforated surface and blind nailing into wood furring.

*NOTE TO SPECIFIER – Select Pattern – Alto 8 or Alto 16*

1. All planks will have parallel grooves equally spaced on the face and intersecting with partial depth holes in the rear to achieve the specified acoustical performance. Groove spacing shall be [Alto 8, 5/16 inch (8mm)] [Alto 16, 5/8 inch (16mm)].
2. Planks are installed per manufacturer instructions on wood furring strips with 3 pcf fiberglass core material [1 inch (25mm) thick] [2 inches (50mm) thick] covering all wall space behind the Alto planks and between the wood furring.
3. Acoustical Performance: *Alto 8 planks* with 5/16 inch (8mm) groove spacing and[1 inch fiberglass core], [2 inch fiberglass core], 3 pcf, and tested per ASTM C423 mounted directly (Type A mounting) shall have a Noise Reduction Coefficient (NRC) of [0.70, 1 inch fiberglass], [0.90, 2 inch fiberglass].
4. Acoustical Performance: *Alto 16 planks* with 5/8 inch (16mm) groove spacing and[1 inch fiberglass core], [2 inch fiberglass core], 3 pcf, and tested per ASTM C423 mounted directly (Type A mounting) shall have a Noise Reduction Coefficient (NRC) of [0.80, 1 inch fiberglass], [0.90, 2 inch fiberglass].
5. Fire Performance [Class A per ASTM E84] [No rating required].

*NOTE TO SPECIFIER – Select Veneer or Laminate*

1. Real wood veneer (unless otherwise specified veneer shall be flat cut, random matched with clear coat finish (sheen 38) not sequenced): Select from [maple] [cherry] [red oak] [white oak] [walnut] [white birch] [mahogany] [Architect specified veneer].
   1. Cut: [flat] [quarter] [rotary] [rift (rift only available for oak veneer)].
   2. Match: [random] [book] [slip].
   3. Finish: [clear coat (sheen 38)] [unfinished] [stain- select if matching existing color] [paint].
   4. [Not sequenced] [select sequenced].
2. Plastic Laminate: Select from the manufacturer’s standard range of clear coat laminate.
3. Edge Finish Options: Applies to non-tongue and groove flat edges only. When multiple edge types are used, detail or note on project drawings. Select from [bare] [stained- select if matching existing color] [painted] [edge banded] [wood trim].
4. Core (For Class A fire rated wood veneered (ASTM E84) choose fire-rated NAUF-MDF Core): Select from [MDF] [fire rated NAUF MDF] [NAUF-MDF] [fire rated particle board].
5. Storage, Installation, and Maintenance of materials must be per the manufacturer’s standard instructions and as specified in the Project Conditions section. The space must be temperature and humidity controlled during storage and installation.
6. Alto Wood *Panels*
   * + 1. Alto wall panels are supplied 3/4 inch (19mm) thick. Panels will be backed with a black acoustically transparent scrim to prevent fiberglass insulation color from showing through the perforations. Panels are installed per manufacturer instructions on wood furring strips with fiberglass core material [1 inch (25mm) thick] [2 inch (50mm) thick] covering all wall space behind the Alto panels and between the wood furring.

*NOTE TO SPECIFIER – Select Pattern – Alto 8 or Alto 16*

* + - 1. Panels will have parallel grooves equally spaced on the face and intersecting with partial depth holes in the rear to achieve the specified acoustical performance. Groove spacing shall be [5/16 inch (8mm)] [5/8 inch (16mm)].
      2. Acoustical Performance: *Alto 8 panels* with 5/16 inch (8mm) groove spacing and [1 inch fiberglass core], [2 inch fiberglass core], 3 pcf, and tested per ASTM C423 with the finished system, panels and fiberglass, mounted directly (Type A mounting) shall have a Noise Reduction Coefficient (NRC) of [0.70, 1 inch fiberglass] [0.90, 2 inch fiberglass]. Panel sizes as shown on drawings, maximum size is 4 feet x 8 feet (1219mm x 2438mm).
      3. Acoustical Performance: *Alto 16 panels* with 5/8 inch (16mm) groove spacing and [1 inch fiberglass core], [2 inch fiberglass core], 3 pcf, and tested per ASTM C423 with the finished system, panels and fiberglass, mounted directly (Type A mounting) shall have a Noise Reduction Coefficient (NRC) of [0.80, 1 inch fiberglass] [0.90, 2 inch fiberglass]. Panel sizes as shown on drawings, maximum size is 4 feet x 8 feet (1219mm x 2438mm).

*NOTE TO SPECIFIER – Select Veneer or Laminate*

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  1. Cut: [flat] [quarter] [rotary] [rift (rift only available for oak veneer)].
  2. Match: [random] [book] [slip].
  3. Finish: [clear coat (sheen 38)] [unfinished] [stain- select if matching existing color] [paint].
  4. [Not sequenced] [select sequenced].
     + 1. Plastic Laminate: Select from the manufacturer’s standard range of clear coat laminate.
       2. Edge Finish Options: Applies to non-tongue and groove flat edges only. When multiple edge types are used, detail or note on project drawings. Select from [bare] [stained- select if matching existing color] [painted] [edge banded] [wood trim].
       3. Core (For Class A fire rated wood veneered (ASTM E84) choose fire-rated NAUF-MDF Core): Select from [MDF] [fire rated NAUF-MDF] [NAUF-MDF] [fire rated particle board].
       4. Storage, Installation, and Maintenance of materials must be per the manufacturer’s standard instructions and as specified in the Project Conditions section. The space must be temperature and humidity controlled during storage and installation.

**PART 3 EXECUTION**

3.01 MANUFACTURER’S INSTRUCTIONS

1. Compliance: Comply with manufacturer’s product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 EXAMINATION

1. Verify all panels are within 1/8 inch of submittal layout drawings.
2. Site Verification of Conditions: Verify that substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer’s instructions.
3. Do not install panels until unsatisfactory conditions are corrected.

3.03 CLEANING

1. Follow manufacturer’s instructions for cleaning panels soiled during installation. Replace panels that cannot be cleaned to as new condition.
2. Keep site free from accumulation of waste and debris.

**END OF SECTION**