ENSEMBLE Acoustical Wood Panels

Kinetics Noise Control, Inc.

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**SECTION 09 84 33.11**

**SOUND-ABSORBING WALL PANELS**

**PART 1 GENERAL**

* 1. 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 holes 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

1. Ensemble Wood Panels
2. Ensemble wall panels are supplied with [1 inch], [2 inch] thick, 3 pcf fiberglass board installed inside a manufactured frame. Panels have a black acoustically transparent scrim to prevent fiberglass insulation color from showing through the pattern holes. Panels are to be installed per manufacturer instructions on Z-clips.

*NOTE TO SPECIFIER – Select Pattern/Thickness*

1. Acoustical Performance: *Ensemble Sereno 2/10* with [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 [0.55, 1 inch fiberglass] [0.60, 2 inch fiberglass]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).
2. Acoustical Performance: *Ensemble Sereno 4/10* with [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] [0.85, 2 inch fiberglass]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).
3. Performance: *Ensemble Sereno 4* with [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 [0.50, 1 inch fiberglass] [0.50, 2 inch fiberglass]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).
4. Acoustical Performance: *Ensemble Sereno 6* with [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] [1.00, 2 inch fiberglass]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).
5. Acoustical Performance: *Ensemble Alto 8* with [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]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).
6. Acoustical Performance: *Ensemble Alto 16* with [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]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).
7. Acoustical Performance: *Ensemble Picado 5* with [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]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).
8. Acoustical Performance: *Ensemble Picado 9* with [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] [0.95, 2 inch fiberglass]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).
9. Acoustical Performance: *Ensemble TAD Revealed* with [1 inch fiberglass core], [2 inch fiberglass core], 6 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] [0.70, 2 inch fiberglass]. Panel sizes as shown on drawings, maximum dimensions are 4 feet in width and 8 feet in length (1219mm x 2438mm), limited to 20 square feet per panel (due to weight).

*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.

**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**