SECTION 098433 – ALPHASORB SOUND-ABSORBING WALL UNITS

PART 1 – GENERAL

1.1 SUMMARY

A. Sound-absorbing wall panels, custom-fabricated and fabric-finished.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM C423 – Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
2. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

1.3 SYSTEM DESCRIPTION

A. Performance Requirements:
1. Surface Burning Characteristics (ASTM E84):
   a. Flamespread: 25 maximum.
   b. Smoke Developed: 450 maximum.
   c. Fire ratings for all fabric covered panels is based on testing of the panel wrapped with the standard in stock fabric, Guilford of Maine, FR 701 Style 2100.

1.4 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit product data sheet, for specified products.

C. Shop Drawings: Submit shop drawings showing layout, edge profiles and panel components, including anchorage, accessories, finish colors and textures.

D. Samples: Submit selection and verification samples of finishes, colors and textures.

E. Test Reports: Certified test reports showing compliance with specified performance requirements.
1. Standard Systems: Submit certified copies of previous test reports substantiating performance of system in lieu of retesting.

1.5 QUALITY ASSURANCE

A. Installation: Follow manufacturer recommendations for installation.

1.6 DELIVERY, STORAGE, AND HANDLING

A. General: Comply with Division 1 Product Requirements Section.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.7 PROJECT CONDITIONS

A. 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

2.1 SOUND-ABSORBING WALL PANELS

A. Manufacturer: Acoustical Solutions, LLC
1. Contact: 2420 Grenoble Road, Richmond, VA 23294; Telephone: (800) 782-5742, ext. 112; E-mail: estimating@acousticalsolutions.com; Web site: www.acousticalsolutions.com.

2. Substitutions: No substitutions permitted.

2.2 WALL PANELS, GENERAL

A. AlphaSorb Panels:
1. Core: General/Absorptive – 6-7 lb. per cubic foot high-density fiberglass
2. Thickness: General/Absorptive – 2"
3. Size: As indicated on the drawings up to a maximum 48 inches x 120 inches per panel.
4. Edge Detail: Square hardened with a Class A hardening solution.
5. Facing: Guilford of Maine Anchorage Style 2335.
   a. Color: As selected from panel manufacturer's stocked range of colors.
6. Sound Absorption (ASTM C423): Noise Reduction Coefficient as follows:
   a. 2 inches (51 mm) panel: 1.00, minimum.
7. Mounting Accessories: Z-clips.

2.3 FABRICATION

A. Wrap panel edges and return facing fabric 1 - 2 inches (25.4 - 51 mm) on back of panel. Secure fabric with adhesive applied to edges and back of panel only.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

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

3.02 EXAMINATION

A. 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.
   1. Verify that stud spacing is 16 inches (406 mm) O.C., maximum, for panels installed over open studs.
   2. Do not install panels until unsatisfactory conditions are corrected.

3.03 CLEANING

A. Follow manufacturer's instructions for cleaning panels soiled during installation. Replace panels that cannot be cleaned to as new condition.

B. Keep site free from accumulation of waste and debris.

END OF SECTION