

## **AlphaSorb Wall Panel Specification 1" thick**

### SECTION 09840 – ACOUSTICAL WALL PANELS

#### PART 1 – GENERAL

##### 1.1 SUMMARY

- A. This section includes the following:
  - 1. Acoustical Wall Panel

##### 1.2 SUBMITTALS

- A. Shop Drawings: Show fabrication and installation details for acoustical wall panels, including plans, elevations, sections, details and attachment to other work.
- B. Submittals: Furnish 4" x 6" sample, color chart showing all manufacture's full range of colors, texture and patterns available for each type of acoustical product specified.
- C. Product Test Report: From a qualified testing agency indicating wall panels comply with requirements.
- D. Qualification Data: For firms specified in "Quality Assurance" Article to demonstrate their capabilities and experience.

##### 1.3 QUALITY ASSURANCE

- A. Manufacturer Qualification: Manufacture shall have a minimum of 5 years experience in production of specified products and shall furnish supporting documentation showing completed jobs of approximately the same size and scope.
- B. Fire Test Reports: Provide acoustical wall panels with the following surface- burning characteristics as per ASTM E 84.
  - 1. Flame Spread: 25 or less
  - 2. Smoke Developed: 450 or less

- C. Acoustical Test Report: Provide acoustical test report from a qualified testing agency indicating acoustical wall panels meets 0.85 NRC per ASTM C-423.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect Acoustical Wall Panels from excessive moisture when shipping, storing, and handling. Deliver in unopened skids and store in a dry place with adequate air circulation. Do not delivery material until all wet-work has been completed.

### PART 2 – PRODUCTS

#### 2.1 WALL PANELS, GENERAL

- A. Acoustical Wall Panels shall be 1” thick – 6.0-7.0 lb. per cubic foot high-density fine fibered fiberglass. Manufactures standard panel construction, wrapped with panel manufactures standard full line of fabric.

- 1. Products

- a. AlphaSorb Wall Panels  
Acoustical Solutions  
2420 Grenoble Road  
Richmond, VA 23294  
Ph. (800) 782-5742  
Fax (804) 346-8808

- 2. Facing Material: Guilford of Maine FR 701 – Style 2100 – 100% polyester
- 3. Panel Thickness: nominal 1” thick
- 4. Noise Reduction Coefficient: NRC 0.85
- 5. Panel Width: As indicted, up to 4 feet wide
- 6. Panel Length: As indicated, up to 10 feet long.

#### 2.2 CONSTRUCTION

- A. The acoustical wall panel product shall be supplied in widths up to 4 feet wide and lengths up to 10 feet long. All edges will be fully wrapped with mounting as indicated.

#### 2.3 MOUNTING

- A. Back-Mounting Accessories: Manufactures standard accessories for securely mounting panels, of type and size indicated and complying with the following requirements:
1. Z Clips: Two part metal clips designed to support weight of panels. One part mechanically attached to wall substrate according to manufactures standard pattern and other part fastened to back of panel.
  2. Impaling Clips: Clip is mounted to the wall, adhesive applied on wall around clip, then panel pressed into place until flush with wall.

#### 2.4 ACOUSTICAL PERFORMANCE

Sound Absorption: Per ASTM C – 423  
 Sound Absorption Coefficient per Octave Band Center  
 Frequency (Hz)

125	250	500	1000	2000	4000	NRC
0.14	0.27	0.80	1.11	1.14	1.14	0.85

#### 2.5 FLAMMIBILITY RATING

- A. All components shall have a Class A Flammability rating per ASTM E- 84: Surface Burning Characteristics of Building Materials, with a Flame Spread of 25 or less and Smoke Developed of 450 or less

### PART 3 – EXECUTION

#### 3.1 INSTALLATION

- A. Install Acoustical Wall panels in locations indicated, top edges level and in alignment with other panels. Comply with manufactures written instructions for installation of panels using type of mounting accessories indicated or, if not indicated, as recommended by manufacture.

#### 3.2 CLEANING

- A. After completion of installation of panels, remove dust and other foreign material according to manufactures written instructions.

- B. Remove surplus material, rubbish, and debris resulting from panel installation, on completion of the work, and leave areas of installation in a neat and clean condition.