

## **Sound Absorbing Panels AQFA-10**

### Part 1-GENERAL

#### Summary

- A. This section includes the following:
  - i. Quilted Fiberglass Sound Absorber

#### 1.1 Submittals

- A. Shop drawings: show fabrication and installation details for acoustical panels, including grommet location.
- B. Submittals: Furnish 8 ½"X11" samples, showing a standard color and quilt pattern.
- C. Product Test Report: From a qualified testing agency indicating materials comply with requirements.
- D. Product certificates: signed by manufacturer certifying that the products furnished comply with requirements.

#### 1.2 Quality Assurance

- A. Manufacturer Qualification: Manufacturer shall have a minimum of 10 years' experience in production of specified products
- B. Fire test Report: Provide flammability test report from a qualified testing agency indicating the Sound Absorber/Noise Barrier Composite has the following surface-burning characteristics as per ASTM E-84.
  - Flame spread index: less than 18
  - Smoke Density index: less than 23
- C. Acoustical Test Report: provide acoustical test report from a qualified testing agency indicating quilted fiberglass absorber component has a NRC value of at least 0.85 per ASTM C423.

#### 1.3 Delivery, Storage, and handling

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

### Part 2-PRODUCTS

#### 2.1 Quilted Fiberglass Sound Absorbers, General

- A. Quilted Fiberglass Sound Absorbers shall consist of a nominal 2" thick fiberglass sound absorber quilted on both sides with a vinyl coated fiberglass cloth facing.

1. Products
  - a. Model # AQFA-10  
Acoustical Solutions  
2420 Grenoble Road  
Richmond, VA 23294  
PH: 800-782-5742  
AcousticalSolutions.com
2. Quilted fiberglass absorbers:
  - a. Shall be nominal 2" thick
  - b. Shall have a nominal density of 2.0-lb/cu.ft.
  - c. Shall be quilted with a vinyl-coated-fiberglass cloth facing
3. Thickness: nominal 2" thick
4. Weight: Approx. .4 lbs. per sq. ft.
5. Standard Width: 48 inches
6. Length: As indicated, up to 25 feet long.
7. Noise Reduction Coefficient: NRC .85

2.2 Construction

- A. The Quilted Fiberglass Sound Absorber shall be supplied in 48" wide panels or rolls with lengths indicated. Manufacturer's standard panel construction shall have all edges bound and #4 spur grommets across the top.

2.3 Mounting

- A. Manufacturers standard accessories for securely mounting the quilted fiberglass absorber panels, of type and size indicated and complying with the following requirements:
  1. Grommets shall be installed to facilitate mounting on either the short or long edge of the panel, as indicated on the drawing.
  2. Mechanical fasteners by others

2.4 Acoustical Performance:

Sound Absorption: Per ASTM C423  
Octave Band Center Frequency (Hz)

| 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
|-----|-----|-----|------|------|------|-----|
| .19 | .99 | .96 | .80  | .57  | .33  | .85 |

2.5 Flammability Rating

- A. Material shall have a Class A flammability rating per ASTM E-84.

Part 3-EXECUTION

3.1 Installation

- A. Install Quilted Fiberglass Sound Absorber in locations indicated. Comply with manufacturer's written instructions for installation of panels or rolled goods.

3.2 Cleaning

- A. After completion of installation of panels or rolled goods, remove dust and other foreign material according to manufacturer's written instructions.
- B. Remove surplus material, rubbish, and debris resulting from quilted fiberglass absorber installation, on completion of work, and leave areas of installation in a neat and clean condition.