

Sound Absorbers/Noise Barrier Composites ANC-AB-133-2

Section – Sound Absorbers/Noise Barrier Composites

Part 1-GENERAL

1.1 Summary

- A. This section includes the following:
 1. Sound Absorbers/Noise Barrier Composites:

1.2 Submittals

- A. Shop drawings: show fabrication and installation details for acoustical curtain 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.

1.3 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 23.5
 - Smoke Density index: less than 30.5
- 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.
- D. Acoustical test report: provide acoustical test report from a qualified testing agency indicating the Sound Absorber/Noise Barrier Composite has a STC value of at least 32 per ASTM E-90 & E-413.

1.4 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 Absorbers / Noise barrier composites, General

- A. Sound Absorbers/Noise barrier Composites shall consist of a layer of a nom. 2" thick quilted fiberglass and a 1 Lb psf reinforced mass loaded vinyl noise barrier. Both layers shall be bonded together
 1. Products
 - a. Model # ANC-AB-133-2
 - All Noise Control
 - WPB, FL 33411
 - www.allnoisecontrol.com
 - Ph: 561-964-9360
 2. Facing material on quilted fiberglass; vinyl-coated-fiberglass cloth facing (gray, tan, black or off-white).
 3. Composite thickness: nominal 2" thick
 4. Total weight: Approx.1.4 lbs. Per sq. ft.
 5. Standard Width: 54 inches
 6. Length: As indicated, up to 25 feet long.

2.2 Construction

- A. The Quilted Fiberglass Absorbers / Noise barriers composite shall be supplied in 54" wide panels or rolls with lengths indicated. Manufacturer's standard panel construction shall have all edges bound with #4 spur grommets across the top, and mating hook and loop seals sewn along the vertical edges.

1. Note: 2" velcro sealed overlap between adjacent panels. The net result when multiple panels are used is that each panel covers 52" in width.

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:
 - a. Grommets shall be installed to facilitate mounting on either the short or long edge of the panel, as indicated on the drawing.
 - b. 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
.07	.27	.96	1.13	1.08	.99	.85

Sound Transmission Loss: Per ASTM E-90 & E-13

Octave Band Center Frequency (Hz)

125	250	500	1000	2000	4000	STC
13	20	29	40	50	55	32

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 absorber / Noise barrier composite 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 Absorbers / Noise barriers composite installation, on completion of work, and leave areas of installation in a neat and clean condition.