SECTION – SOUND ABSORBERS/NOISE BARRIER COMPOSITES

ANC-AB-133-2

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” x 11” 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
         All Noise Control, 2731 Vista Parkway
         Suite # D-6 WPB,
         Florida 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.
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.

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

A Sound absorption: Per ASTM C423

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<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>NRC</th>
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Sound Transmission Loss: Per ASTM E-90 & E-13

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2.5 FLAMMABILITY RATING

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