SECTION – SOUND ABSORBERS/NOISE BARRIER COMPOSITES

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" 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: 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 Report: Provide Quilted Fiberglass absorbers
   with the following surfaceburning 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 meets a NRC value of at least 0.70
   per ASTM C423.

D  Acoustical test report: provide acoustical test report
   from a qualified testing agency indicating the Sound
   Absorber/Noise Barrier Composite meets a STC value
   of at least 26 per ASTM E-90 & E-413.

1.4  DELIVERY, STORAGE, AND HANDLING

A  Protect Quilted Fiberglass Absorbers 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, GENERAL

A  Sound Absorbers/Noise barrier Composites shall be
   nominally 1" thick-1.6 lb per cubic foot density.
   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: 1 lb psf reinforced loaded vinyl
         barrier intricately bonded to a nominally 1" thick
         quilted fiberglass absorber with vinyl coated
         fiberglass cloth facing.

      3. Thickness: nominal 1" thick

      4. Panel Weight: 1.75 lbs. per square foot

      5. Noise Reduction Coefficient: 0.70

      6. Standard Width: 54 inches

      7. Length: As indicated, up to 25 feet long.

      8. Panel Width: 48 inches

      9. Panel Length: As indicated, up to 10 feet long.
2.2 CONSTRUCTION

A The quilted fiberglass absorber shall be supplied in 54” wide panels or rolls with lengths indicated. Manufacturers standard panel construction shall have all edges bound with #4 spur grommets across the top. And mating hook and loop fastener on vertical edges. A polyester thread suitable for exterior applications must be used in the quilting process as well as to apply the matching edge binding.

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.

2.4 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>
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2.5 FLAMMABILITY RATING

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