

Exterior Grade Sound Curtains - Permanent/Long term (ANC-BBC-EXT-R-2")

Part 1-GENERAL

1.1 Summary

A. This section includes the following:

1. Exterior Grade noise control curtains (sound curtains) for permanent or long term projects

1.2 Related Sections

1.3 References

1.4 Submittals

- A. Shop drawings: show fabrication and installation details for acoustical panels, including grommet location.
- B. Samples: Furnish 18" x 21" samples for quality and general panel construction.
- C. Technical data sheets reflecting construction, panel thickness, weight, and Acoustical data.

1.5 Delivery, storage, and handling

- A. Deliver in unopened skids and store in a dry place with adequate air circulation. Store materials will they will be free from accidental damage.

Part 2-PRODUCTS

2.1 Sound Curtains, General

A. Sound Curtains shall consist of a nominally 2" thick quilted fiberglass sound absorber bonded to a 1 lb psf reinforced loaded vinyl noise barrier

1. Products

- i. Model # ANC-BBC-EXT-R-2"
All Noise Control
WPB, FL 33411
www.allnoisecontrol.com
Ph: 561-964-9360

2. Noise Barrier: Flexible reinforced loaded vinyl barrier material:

- i. Shall weigh a minimum of one pound per square foot
- ii. Shall have a tensile strength of 1470 lb/in² per ASTM D 638
- iii. Shall have a hardness of 85 ± 3, shore "A" per ASTM D2240

3. Sound Absorber: Exterior grade faced quilted fiberglass sound absorber

i. Quilted fiberglass:

1. Shall be nominally 2" thick
2. Shall have a nominal density of 1.5 lb./cu. ft.

ii. Exterior grade facing material:

1. Shall be a heavy duty 8 oz/sq. yd. PVC polyester fabric facing
2. Shall be mechanically attached to the fiberglass by a quilting process

4. Sound Absorption Coefficient of .96 @ 250 hz

5. Sound Transmission class: 34

6. Standard Width: 54 inches

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

2.2 Construction

A. The sound absorption layer shall have all edges bound and be sewn to the barrier with a Tenera exterior grade thread.

B. Sound Curtains shall be supplied in sizes indicated. Manufacturers standard panel construction shall have all edges bound, #4 spur grommets across the top & bottom, and exterior grade mating hook and loop fastener on both vertical edges.

- a. On panels over 10' long an additional row of grommets may be installed across the middle of the panel

2.3 Mounting

1. An appropriate mechanical fastener is to be installed through each grommet in the Sound Curtain securing it to the support structure.
2. Install the panels so that adjacent panels overlap each other by approximately 2"
 - i. Join panels by pressing the mating hook and loop fasteners together

2.4 Acoustical Performance:

Sound Transmission Loss: Per ASTM E 90

Octave Band Center Frequency (Hz)

<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2000</u>	<u>4000</u>	<u>STC</u>
15	21	32	44	49	52	34

Sound Absorption: Per ASTM C423

Octave Band Center Frequency (Hz)

<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2000</u>	<u>4000</u>	<u>NRC</u>
.45	.96	.87	.66	.47	.28	.75

Part 3-EXECUTION

3.1 Installation

- A. Install sound curtain panels in locations indicated. Comply with manufacturers written instructions for installation by using type of mounting accessories indicated or, if not indicated, as recommended by the manufacturer.

3.2 Cleaning

- A. After completion of installation of panels or rolled goods, remove dust and other foreign material according to manufacturers 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.