



WESTERN NOISE CONTROL (2015) LTD.

## Echotrol BOSS (Built On Site System)

### PART 1 – GENERAL

#### 1.1 SUMMARY OF PRODUCT

- A. BOSS manufactured with **formaldehyde-free** high density acoustic insulation that meets CGSB 51-GP-10M and is GREENGUARD Gold Certified.

#### 1.2 SUBMITTALS

- A. Shop Drawings: Show fabrication and installation details for acoustic panels, including plans, elevations, sections, details and attachment to other work.
- B. Submittals: Furnish samples.
- C. Qualification Data: For firms specified in “Quality Assurance” Article to demonstrate their capabilities and experience.
- D. Product Certificates: Signed by manufacturer certifying that the products furnished comply with requirements.

#### 1.3 QUALITY ASSURANCE

- A. Manufacturer and Installer Qualifications: Manufacturer and Installer shall have a minimum of 5 years experience in producing and installing specified products and shall furnish supporting documentation showing completed jobs of approximately the same size and scope.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect acoustic material from water, rain, and/or snow when shipping/handling.
- B. DO NOT drag material as damage/soiling can occur.
- C. Only install BOSS when building is enclosed, dust generating activity is completed, and HVAC is operational.
- D. Do not install BOSS until wet work is complete and dry.
- E. Install BOSS after painting and flooring is completed and/or installed.

### PART 2 – PRODUCTS

#### 2.1 BOSS, GENERAL

- A. The manufacturer’s absorptive material shall be made with high density (96 kg/m<sup>3</sup>//6.0 lb/ft<sup>3</sup>) **formaldehyde-free** smooth fiberglass wrapped with acoustically transparent fabric appropriate to the application.
  - 1. Product Model: Echotrol BOSS  
Western Noise Control  
Edmonton, Alberta, Canada  
Ph. (800) 661-7241  
Fax (780) 426-0325  
E-mail: info@acousticsolutions.com
  - 2.
    - A. Non-wet and non-corrosive environments: Facing Materials: Guilford of Maine’s “Open House/Anchorage” or Victor’s “Whisper” or other Acoustically Transparent Fabrics as per Architect
    - B. Wet or Corrosive Environments: Facing Materials: PVC as per Architect
  - 3. BOSS Thickness: Nominal 1” or 2” thick absorptive material
  - 4. Track system: Nominal 1” or 2” thick PVC track



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- 5. Noise Reduction Coefficient: NRC of 0.8 for 1” absorptive material and 1.0 for 2” absorptive material.
- 6. BOSS Width: Up to 1,524 mm (60 inches/5 ft) or maximum width of fabric
- 7. BOSS Length: Up to 50 yards, or maximum length of fabric.

### 2.2 CONSTRUCTION

- A. BOSS product shall be supplied in widths, lengths, and finishes as indicated.

### 2.3 MOUNTING

- A. Mounting Accessories: Manufacturer’s standard accessories for securely mounting BOSS of type and size indicated and complying with the following requirements:
  - 1. Walls: As per manufacturer with Professional Engineer’s approval and conformance to seismic conditions as necessary.
  - 2. Ceilings: As per manufacturer with Professional Engineer’s approval and conformance to seismic conditions as necessary whether suspended or at ceiling level.

### 2.4 ACOUSTIC PERFORMANCE

Sound Absorption: Per ASTM C-423 Type A Mounting

#### 1” Thick Sound Absorption Coefficient per Octave Band Center Frequency

125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
0.11	<b>0.24</b>	<b>0.73</b>	<b>1.03</b>	<b>1.10</b>	0.87	<b>0.80*</b>

#### 2” Thick Sound Absorption Coefficient per Octave Band Center Frequency

125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
0.29	<b>0.98</b>	<b>1.09</b>	<b>0.96</b>	<b>1.01</b>	0.97	<b>1.0*</b>

\*Note: Average NRC is based on the 250,500, 1000, and 2000 Hz frequency bands and rounded to nearest multiple of 0.05

### 2.5 SURFACE BURNING CHARACTERISTICS

- A. All components pass flame spread and smoke development tests for CAN/ULC S102-M88, ASTM E84 Class 1/A, NFPA 255, and/or NFPA 260 (Class 1).

## PART 3 – EXECUTION

### 3.1 INSTALLATION

- A. Install BOSS in locations indicated and in orientation indicated. Comply with manufacturer’s written instructions for installation of BOSS using type of mounting accessories indicated by manufacturer in orientation and spacing dictated by manufacturer. Comply with the following:
  - 1. Install track plumb, straight, and flush in proper alignment.
  - 2. Stretch fabric over PVC framework and insert into the jaw of the extrusion using appropriate tools.
  - 3. Fabric shall be stretched tautly, evenly, and smoothly, and should be free of defects and flaws.



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### **3.2 CLEANING**

- A. After completion of installation of BOSS, remove dust and other foreign material with a horse hair duster brush mounted on a vacuum cleaner. A damp cloth with mild detergent and warm water or foam/pure water-free solvents can also be used for heavier soiling BUT an inconspicuous section on the side of the BOSS should be tested beforehand when “wetting” the BOSS with anything.

**END OF SECTION**