



Echotrol Rigid Acoustic Baffle

PART 1 – GENERAL

1.1 SUMMARY OF PRODUCT

- A. Acoustic baffles 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 baffles, including plans, elevations, sections, details and attachment to other work.
- B. Submittals: Furnish samples, showing manufacture full range of colors, texture and patterns available for each type of acoustic product specified.
- 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 baffles from water, rain, and/or snow when shipping/handling.
- B. DO NOT drag baffles across surfaces as fabric/baffle damage/soiling can occur.
- C. 2 people are to carry baffles 1200mmx1200mm in size and larger.
- D. Only install acoustic baffles when building is enclosed and HVAC is operational.
- E. Do not install acoustical baffles until wet work is complete and dry.
- F. Install baffles after painting and flooring is completed and/or installed.

PART 2 – PRODUCTS

2.1 BAFFLES, GENERAL

- A. The manufacturer’s acoustic baffles shall be made with high density (96 kg/m³//6.0 lb/ft³) **formaldehyde-free** smooth fiberglass wrapped with acoustically transparent fabric.
1. Product Model: Echotrol Rigid Acoustic Baffle
Western Noise Control
Edmonton, Alberta, Canada
Ph. (800) 661-7241
Fax (780) 426-0325
E-mail: info@acousticsolutions.com
 2. Facing Materials: Acoustically Transparent Fabrics as per Architect or heavy-duty white breathable vinyl coated textile scrim.
 3. Baffle Thickness: Nominal 2” thick baffles.
 4. Noise Reduction Coefficient: NRC of 1.0 for 2” baffles.
 5. Baffle Width: Up to 1,200 mm (48 inches/4 ft)
 6. Baffle Length: Up to 2,400 mm (96 inches/8 ft)
 7. Maximum baffle size: 16 square feet (baffles can be up to 4 ft x 4 ft or 2 ft x 8 ft, but not 4 ft x 8 ft)



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2.2 CONSTRUCTION

- A. The acoustic baffle product shall be supplied in widths and lengths as indicated. All edges will be fully wrapped with mounting as indicated.

2.3 MOUNTING

- A. Mounting Accessories: Manufacturer’s standard accessories for securely mounting baffles of type and size indicated and complying with the following requirements:
 - 1. Ceilings: Factory-installed hanging points are provided in the baffle along with a proprietary fastening assembly engineered for the specific ceiling baffles are being hung from. Ceiling substrate fasteners must be as per manufacturer’s specification to ensure loading is engineered so baffle cannot fall off ceiling. No adhesive is required for ceiling baffles.

2.4 ACOUSTIC PERFORMANCE

Sound Absorption:

2” Thick Sound Absorption Coefficient per Octave Band Center Frequency						
125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
0.29	0.98	1.09	0.96	1.01	0.97	1.0*

2.5 SURFACE BURNING CHARACTERISTICS

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

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Install acoustic baffles in locations indicated and in alignment with other baffles. Comply with manufacturer’s written instructions for installation of baffles using type of mounting accessories as recommended by manufacturer.

3.2 CLEANING

- A. After completion of installation of baffles, 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 baffle should be tested beforehand when “wetting” the baffle/fabric with anything.