



**PART 1 – GENERAL**

**1.1 SUMMARY OF PRODUCT**

- A. Techfoam Acoustic Round Hanging Baffles manufactured with open-cell, fiber-free melamine foam.

**1.2 SUBMITTALS**

- A. Shop Drawings: Show fabrication and installation details for acoustic round 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 round baffles from water, rain, and/or snow when shipping/handling.
- B. DO NOT drag baffles across surfaces as baffle damage/soiling can occur.
- C. Only install acoustic round hanging baffles when building is enclosed and HVAC is operational.
- D. Do not install acoustical round hanging baffles until wet work is complete and dry.
- E. 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 open-cell, fiber-free melamine foam.
  - 1. Product Model: Echotrol Techfoam Round Hanging Baffle  
Western Noise Control  
Edmonton, Alberta, Canada  
Ph. (800) 661-7241  
E-mail: info@acousticsolutions.com
  - 2. Finish Materials: **Either** raw (Natural White or Light Grey) **OR** Acoustically Transparent Factory Paint (Sherwin Williams) as per Architect
  - 3. Baffle Thickness: Nominal 6” thick baffles.
  - 4. Noise Reduction Coefficient: NRC of 0.85
  - 5. Baffle Height: 12”, 18”, 24” OR 36”

**2.2 CONSTRUCTION**

- A. The acoustic baffle product shall be supplied in widths and lengths 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:
  - A. Install materials in accordance with manufacturer's printed instructions and to comply with governing regulations, fire resistance rating requirements as indicated and industry standards applicable to the work.
  - B. Install units after ceiling work is complete.
  - C. Hang baffles in uniform plane, where required, and free from twist, warp, and dents.

**2.4 ACOUSTIC PERFORMANCE**

Sound Absorption: Per ASTM C-423 Type J Mounting

**6”” Thick Sound Absorption Coefficient per Octave Band Center**

<b>Frequency</b>						
125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
0.29	<b>0.84</b>	<b>2.87</b>	<b>3.84</b>	<b>3.90</b>	3.56	<b>0.85*</b>

**\*Note:** Average NRC is based on the 250,500, 1000, and 2000 Hz frequency bands and rounded to nearest multiple of 0.05. Also note that sound absorption for a vertically hung Acoustic Baffle is significantly higher than that of a wall/ceiling mounted Acoustic Panel given its larger (approximately double) exposed surface area. Large rooms with high ceilings require both ceiling baffles and wall panels to achieve significant reductions in reverberation/echo.

**2.5 SURFACE BURNING CHARACTERISTICS**

- A. All components pass flame spread and smoke development tests for ASTM E84 Class A.

**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 indicated or, if not indicated, 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.