SECTION 09 51 13

Echo EliminatorTM Bonded Acoustical Cotton Baffles

**PART 1 GENERAL**

1. **SECTION INCLUDES**
	1. Echo EliminatorTM bonded acoustical cotton baffles.
2. REFERENCES
	1. American Society for Testing and Materials (ASTM)
		1. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials.
		2. ASTM C423: Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
		3. ASTM E795: Standard Practices for Mounting Test Specimens During Sound Absorption Tests
	2. International Code Council (ICC)
		1. ICC IBC: International Building Code
3. **SUBMITTALS**
	1. Product Data: Manufacturer’s data sheet and installation instructions.
	2. Samples: Submit, at minimum, a 4” x 4” sample for each type of specified acoustical baffle.
	3. Test Reports: Upon request, submit certified test reports to verify specified product performance.
4. **MAINTENANCE MATERIAL**
5. Extra Materials:
	* 1. Extra materials shall be from the same production run as the original materials.
		2. Extra materials shall remain in the manufacturer’s original packaging and given to the building owner upon substantial completion of the work. Store extra materials per instructions as described in storage and handling requirements.
6. **QUALITY ASSURANCE**
	1. Qualifications:
		1. Manufacturers: Provide acoustical baffles from a single manufacturer.
		2. Installers: Utilize an installer having demonstrated experience on projects of comparable size and complexity.
	2. Performance Requirements:
		1. Surface Burning Characteristics: Acoustical baffles to perform as specified when tested in accordance with ASTM E84. Acoustical baffle surface burning performance should comply with the International Building Code and other local building code requirements.
		2. Acoustical Characteristics: Acoustical baffles to perform as specified when tested in accordance with ASTM C423.
7. **DELIVERY, STORAGE, AND HANDLING**
	1. Storage and Handling Requirements:
		1. Handle baffles carefully to avoid any damage.
		2. Store baffles indoors in a clean, cool, dry place, and out of direct sunlight.
		3. Store baffles in a space where the ambient temperature and humidity conditions are being maintained at the levels indicated for the project when occupied for its intended use.
8. **SITE CONDITIONS**
	1. Ambient Conditions:
		1. Maintain ambient temperature and humidity conditions at levels indicated for the project when occupied for its intended use.
		2. Do not install products under environmental conditions outside manufacturer’s recommended limits.
	2. Existing Conditions: Do not install baffles until space is enclosed and weather proofed, wet work is completely dry, and work above ceilings is complete.
9. **WARRANTY**
	1. Provide manufacturer’s written product warranty per Section 01 77 00 – Closeout Procedures.

**PART 2 PRODUCTS**

(Specifier Note: Red colored text below requires you to select an option before this specification can be completed. Options in red text are bound by parenthesis. Additional Echo Eliminator Baffle information can be found on our website <https://www.acousticalsurfaces.com/echo_eliminator/ee_hangbaf.htm>)

1. **MANUFACTURERS**
	1. Acoustical Surfaces, Inc., 123 Columbia Court N, Chaska, MN 55318.
	Phone: 952-448-5300. Fax: 952-448-2613. Website: www.acousticalsurfaces.com
2. **DESCRIPTION**
	1. Product: Echo EliminatorTM bonded acoustical cotton baffles by Acoustical Surfaces, Inc.
	2. Product Options:
		1. Baffle Composition: Bonded acoustical cotton
		2. Baffle Density: (3lb pcf) / (6lb pcf)
		3. Baffle Thickness: (1”) / (2” – 3lb pcf only)
		4. Baffle Size: (2’ x 4’ – Standard) / (Custom sizes up to 4’ x 8’ – minimum
		 quantities may apply)
		5. Edge Detail: Square
		6. Finish: (Black) / (Graphite) / (Light Grey) / (White) / (Beige) / (Marble
		 Blue)
		7. Mounting Method: Grommets
		8. Grommet Color: (Gold) / (Silver)
	3. Product Performance:
		1. Acoustical Performance
			1. Noise Reduction Coefficient (NRC) per ASTM C423

|  |  |  |
| --- | --- | --- |
| Thickness/Density | 1” – 3lb pcf | 2” – 3lb pcf |
| Avg. Sabins/Baffle | 10.30 | 13.85 |

* + 1. Surface Burning Performance
			1. Fire Rating per ASTM E84: Class A

**PART 3 EXECUTION**

1. **EXAMINATION**
2. Verification of Conditions:
3. All wet work in the installation area must be complete, cured, and dry prior to installation.
4. Work above ceilings shall be complete, inspected, and accepted before ceiling work begins.
5. **INSTALLATION**
6. Comply with manufacturer’s instructions and recommendations for installation of baffles and with industry standards.
7. **CLEANING**
8. Clean surfaces of baffles per manufacturer’s instructions or recommendations.
9. Remove and replace damaged or discolored material and material that cannot be properly cleaned.
10. **PROTECTION**
11. Protect installed work from damage due to subsequent construction activity, including temperature and humidity limitations and dust control, so that the work will be without damage and deterioration at the time of acceptance by the owner.

END OF SECTION