SECTION 13 48 13

Echo Barrier Sound Barrier/Absorber Panels

**PART 1 GENERAL**

1. **SECTION INCLUDES**
	1. Echo Barrier sound barrier/absorber panels and accessories for installation.
2. REFERENCES
	1. American Society for Testing and Materials (ASTM)
		1. ASTM E90: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
	2. International Organization of Standardization (ISO)
		1. ISO 354: Measurement of Sound Absorption in a Reverberation Room.
		2. BS 7837: Specification for Flammability Performance for Textiles Used in the Construction of Marquees and Similar Textile Structures.
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 panel.
	3. Test Reports: Upon request, submit certified test reports to verify specified product performance.
4. **QUALITY ASSURANCE**
	1. Qualifications:
		1. Manufacturers: Provide panels from a single manufacturer.
		2. Installers: Utilize an installer having demonstrated experience on projects of comparable size and complexity.
	2. Performance Requirements:
		1. Flammability Characteristics: Acoustical panels to perform as specified when tested in accordance with BS 7837.
		2. Acoustical Characteristics: Acoustical panels to perform as specified when tested in accordance with ASTM C423 and ASTM E90.
5. **DELIVERY, STORAGE, AND HANDLING**
	1. Storage and Handling Requirements:
		1. Handle panels carefully to avoid any damage.
		2. Store panels indoors in a clean, cool, dry place, and out of direct sunlight.
		3. Store panels 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.
6. **SITE CONDITIONS**
	1. Ambient Conditions: Do not install panels under environmental conditions outside manufacturer’s recommended limits.
7. **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 Barrier information can be found on our website <https://www.acousticalsurfaces.com/temporary-barrier/echo-barrier.html>)

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 Barrier sound barrier/absorber panels by Acoustical Surfaces, Inc.
	2. Product Options:
		1. Panel Composition: Weatherproof PVC facing with sound-absorbent core made from
		 recycled materials.
		2. Panel Thickness: Nominal 2”
		3. Size: 52.56” x 80.70”
		4. Finish: (Green) / (Black) / (White)
		5. Mounting Method: Grommets
	3. Product Performance:
		1. Acoustical Performance
			1. Noise Reduction Coefficient (NRC) per ASTM C423 – up to 0.65 depending on panel options and mounting configuration.
			2. Sound Transmission Class (STC) per ASTM E90 – up to 18 depending on panel options and mounting configuration.
		2. Flammability Performance
			1. Results when tested per BS 7837: Passed.
3. **ACCESSORIES**
4. Attachment hardware for panels as specified by manufacturer for installation.

**PART 3 EXECUTION**

1. **INSTALLATION**
2. Comply with manufacturer’s instructions and recommendations for installation of acoustic panels and with industry standards.
3. **CLEANING**
4. Clean surfaces of panels per manufacturer’s instructions or recommendations.
5. Remove and replace damaged or discolored material and material that cannot be properly cleaned.

END OF SECTION