SECTION 09 51 13

Poly MaxTM Baffles

**PART 1 GENERAL**

1. **SECTION INCLUDES**
   1. Poly MaxTM polyester acoustical baffles and accessories for ceiling installation.
2. REFERENCES
   1. American Society for Testing and Materials (ASTM)
      1. ASTM C1338: Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
      2. ASTM C423: Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
      3. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials.
      4. ASTM E795: Standard Practices for Mounting Test Specimens During Sound Absorption Tests
      5. ASTM E1477: Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers
   2. California Department of Public Health (CDPH)
      1. CDPH Standard Method V1.2: Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers
   3. 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 Poly Max information can be found on our website <https://www.acousticalsurfaces.com/>)

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: Poly MaxTM Baffles by Acoustical Surfaces, Inc.
   2. Product Options:
      1. Composition: 100% polyester: 60% PET-recycled fiber, 40% PET-virgin fiber.
      2. Thickness: (1/2”) / (1”) / (2”)
      3. Density: (12.5lb pcf – 1/2" baffles) / (7.5lb pcf – 1” baffles) /   
          (5lb pcf – 2” baffles)
      4. Size: (24” x 48”) / (48” x 96”) / (Custom Sizes up to 48” x 96”)
      5. Edge Profile: Square
      6. Color: 1/2" Color Options: (White) / (Black) / (Beige) / (Silver) / (Gray)  
          / (Tan) / (Brown) / (Blue) / (Purple) / (Red) / (Orange) / (Lime) /  
          (Printed Graphics)  
          1” and 2” Color Options: (White) / (Black) / (Beige) / (Printed  
          Graphics)
      7. Mounting Method: Suspended Panel ((Silver) / (Brass) grommets for 1/2" or 1” baffles)  
          / (Silver eyelets for 1” or 2” baffles)
   3. Product Performance:
      1. Acoustical Performance
         1. Noise Reduction Coefficient (NRC) per ASTM C423

|  |  |  |  |
| --- | --- | --- | --- |
| Thickness | 1/2" | 1” | 2” |
| A Mount | 0.40 | 0.70 | 0.95 |

* + 1. Surface Burning Performance
       1. Fire Rating per ASTM E84: Class A.
    2. Material Property Performance
       1. Luminous Reflectance per ASTM E1477: 1/2” – 87. 1” – 83. 2” – 82.
       2. Fungal Growth per ASTM C1338: Pass (100% clear of fungal growth).
       3. VOC Levels per CDPH Standard Method V1.2: Passed (white).

1. **ACCESSORIES**
2. Attachment hardware for baffles as specified by manufacturer for installation.

**PART 3 EXECUTION**

1. **EXAMINATION**
   1. Verification of Conditions:
      1. All wet work in the installation area must be complete, cured, and dry prior to installation.
      2. Work above ceilings shall be complete, inspected, and accepted before ceiling work begins.
2. **INSTALLATION**
3. Comply with manufacturer’s instructions and recommendations for installation of baffles and with industry standards.
4. **CLEANING**
5. Clean surfaces of baffles per manufacturer’s instructions or recommendations.
6. Remove and replace damaged or discolored material and material that cannot be properly cleaned.
7. **PROTECTION**
8. 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