PART 1 GENERAL

1.01 SECTION INCLUDES

A. Sound Absorptive Wall Panels
B. Sound Absorptive Ceiling Panels (Clouds)
C. Sound Absorptive Ceiling Tile
D. Miscellaneous Accessories

1.02 REFERENCES

A. ASTM International:

1.03 SYSTEM DESCRIPTION

A. Performance Requirements:
   1. Surface Burning Characteristics ASTM E84 Class I

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
B. Product Data: Submit product data sheet, for specified products.
C. Shop Drawings: Submit shop drawings showing layout, edge profiles and panel components, including anchorage, accessories, finish colors and textures.
D. Samples: Submit selection and verification samples of finishes, colors and textures.
E. Test Reports: Certified test reports showing compliance with specified performance requirements.

1.05 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirements Section.
B. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.06 PROJECT CONDITIONS

A. Environmental Requirements: Do not install panels until building has been enclosed and environmental conditions approximate interior conditions that will exit during occupancy.
PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturer: Sound Seal, Inc., located at 50 HP Almgren Drive, Agawam, MA 01001. Contact Sound Seal Architectural Division at 413-78-1770, Email: soundquality@soundseal.com; Web: www.soundseal.com

B. Substitutions: No substitutions permitted.

2.02 LAY-IN ACOUSTICAL CEILING TILES

A. Acoustic Tiles: Sound Seal SERENITY Metal Absorptive Ceiling Tiles

1. Tile Thickness: 1 inch (25.4 mm) or 2 inches (50.8 mm)
2. Tile Size: To fit standard ceiling for 24 inches (607 mm) x 24 inches (607 mm) grid and 24 inches (607 mm) x 48 inches (1214 mm). Specify either 9/16” or 15/16” suspended grid style.

B. Panel Performance:

1. Sound Absorption: Provide panels that are certified to meet the following minimum sound absorption coefficients when tested in accordance with ASTM C423 and E 795:

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>1 inch Thick Tile</th>
<th>2 inch Thick Tile</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>0.11</td>
<td>0.17</td>
</tr>
<tr>
<td>250</td>
<td>0.28</td>
<td>0.86</td>
</tr>
<tr>
<td>500</td>
<td>0.68</td>
<td>1.14</td>
</tr>
<tr>
<td>1000</td>
<td>0.90</td>
<td>1.07</td>
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<tr>
<td>2000</td>
<td>0.93</td>
<td>1.02</td>
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<tr>
<td>4000</td>
<td>0.96</td>
<td>0.98</td>
</tr>
<tr>
<td>NRC</td>
<td>0.70, minimum</td>
<td>1.00, minimum</td>
</tr>
</tbody>
</table>

2. Fire: Provide panels when tested in accordance with ASTM E84 demonstrate: Flame Spread = 10, Smoke Developed=10.

C. Tile Construction:

1. All materials to be electro galvanized / galvanealed steel.

2. Tile body shall be fully formed one piece perforated metal shell. Material shall be minimum 22 gauge (.76 mm) steel sheet perforated with 3/32 inch (2 mm) diameter holes on 5/32 inch (4 mm) staggered centers for a 33% open area.

3. Edge Style: Specify square lay-in or Tegular edge style.

D. Acoustical Insulation: Fill shall be [1 inch (25.4 mm)] or [2 inch (50 mm)] thick fiberglass or mineral wool having a density of not less than 1.5 pounds per cubic foot (24 kg/cubic m). When required, panel fill shall be totally encased in a 2 mil thick heat sealed black poly wrap

E. Finish: Baked polyester powder coat.
PART 3 EXECUTION

3.01 EXAMINATION
A. Examine surfaces to receive acoustical tiles. Do not begin installation until any unsatisfactory conditions have been corrected.

3.02 INSTALLATION
A. Install tiles into suspended ceiling grid in locations and in patterns as indicated on the drawings.
B. Install each tile in accordance with manufacturer’s instructions using approved anchors and fasteners.

3.03 CLEANING
A. Follow manufacturer’s instructions for cleaning tiles soiled during installation. Replace tiles that cannot be cleaned to as new condition.
B. Keep site free from accumulation of waste and debris.

END OF SECTION