DESIGN AND SPECIFICATIONS

Description
Decoustics Suspended Reveal acoustical ceiling panels consist of a medium density core finished with fabric, Claro® or Metallo®. The plenum or back side of the panel is supplied with a clear vapor barrier and mounting clips.

Where a floating panel effect is desired a minimum 4” (100mm) reveal is required around each panel to facilitate a progressive installation. A 1” (25mm) reveal around each panel is possible, however perimeter panels require a minimum 4” (100mm) reveal.

Panels
All Decoustics panels are custom fabricated and offered in a variety of types, sizes, geometric shapes, ellipses, thicknesses and finishes.

Limitations
Panel sizes are limited to 120” x 60” (3050mm x 1525mm) for fabric finished panels, considering fabric width availability and 72” x 48” (1830mm x 1220mm) for coated finishes.

Design Considerations
A minimum space of 6” (150mm) between the back of the panel and the structure above is required to install the Suspended Reveal ceiling system. Plenum space above ceiling is largely non-accessible. Individual de-installation of panels is possible if localized access is required.

All lights, diffusers, speakers, smoke detectors, sprinklers, and similar items that penetrate or are located in the ceiling must be independently supported. The panels are not structurally capable of supporting the weight of any of these items.

When using speakers in ceiling or wall panels, it is recommended the speaker grille be visibly mounted at the face of the panel. Speaker function creates air movement and any fabric covering the speaker will experience premature soiling.

Maintenance
Refer to appropriate Decoustics “Cleaning and Maintenance Instructions” for any specific finish.

Standards, Tests and Approvals
Surface Burning Characteristics (ASTM E-84): All panel components have a Flame Spread rating of less than 25.

Note: Building code requirements may necessitate composite panel testing based on specified finish.

A panel comprised of “Class A” (Flame Spread of 25 or less) components does not necessarily produce a composite panel meeting the “Class A” requirement. Decoustics has a considerable number of composite panel tests on file.
Mounting Methods

Mechanically mount using installer supplied T-bar having a 15/16” (24mm) face flange and 1-1/2” (38mm) web height. Note: T-bar is first secured to factory installed DPC-2 clips mounted on panel backs and then the completed assembly is hung in place using hanger wires or rods typically on 48” (1220mm) centers along each “T” bar.

Only handle panels wearing clean, lightweight, white gloves during installation.

Follow manufacturer’s printed instructions for installation as well as field cutting of panels.

Acoustical Data (ASTM C423: Type F5 Mounting as per ASTM E795).

<table>
<thead>
<tr>
<th>FINISH</th>
<th>PANEL THICKNESS</th>
<th>FREQUENCY (Hz)</th>
<th>NRC</th>
<th>SAA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>125</td>
<td>250</td>
<td>500</td>
</tr>
<tr>
<td>Fabric</td>
<td>1” (25mm)</td>
<td>0.35</td>
<td>0.41</td>
<td>0.84</td>
</tr>
<tr>
<td>Fabric</td>
<td>2” (50mm)</td>
<td>0.19</td>
<td>0.87</td>
<td>1.20</td>
</tr>
<tr>
<td>Claro or Metallo</td>
<td>1-1/16” (27mm)</td>
<td>0.17</td>
<td>0.36</td>
<td>1.04</td>
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<tr>
<td>QPP-19</td>
<td>Panel 1-1/8” (28mm)</td>
<td>0.05</td>
<td>0.16</td>
<td>0.59</td>
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<tr>
<td>QPP-25</td>
<td>Panel 1-3/8” (35mm)</td>
<td>0.07</td>
<td>0.28</td>
<td>0.85</td>
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<tr>
<td>QPP-50</td>
<td>Panel 2-3/8” (60mm)</td>
<td>0.29</td>
<td>0.82</td>
<td>1.18</td>
</tr>
</tbody>
</table>

Acoustic testing was performed on a panel finished with an acoustically transparent fabric.