CEILING SYSTEMS

Between us, ideas become reality*

SOUNDSCAPES
Acoustical Canopies

Armstrong
Matching paint finish on all sides and edges

Embedded hardware in back of panel

**Key Selection Attributes**

- Enhance acoustics with spot absorption
- Aesthetically define spaces and enhance acoustic in open plenum spaces with spot sound absorption
- Curved panels can be used as ‘Hill’ or ‘Valley’
- Six standard colors; custom colors available
- Adjustable to special heights
- Energy-efficient, high light-reflectant surface
- Easy to use hardware system for fast/easy installation
- Color co-ordinate with SoundScapes shapes

**Color Selection**

Due to printing limitations, shades may vary from actual product.

Traffic White  RAL9016
Light Ivory    RAL1015
Pale Green    RAL6021
Pastel Blue   RAL5024
Traffic Grey  RAL7042
Pale Brown   RAL8025

NOTE: Special care in installation and handling must be taken with color canopies to avoid surface damage to the paint finish.

Cover photo:
SoundScapes Canopies 1220 x 1830 mm Hill panels in White
One Kendall Square, Cambridge, MA
**Sound Absorption in Sabin**

The Sabin is the unit of total sound absorption provided by an object. This is the preferred metric for “space absorbers” such as clouds, canopies or baffles installed within an architectural space. Total acoustical absorption for a suspended ceiling is calculated by multiplying the exposed surface area by the material NRC while “space absorbers” are directly measured. SoundScapes Acoustical Canopies provide greater sound absorption than a continuous ceiling of the same surface area because the sound is absorbed from both the front and back surfaces. The installation of canopies in a reverberant space can significantly reduce the background noise and reverberation time, enhancing speech intelligibility.

Factors that may affect the installed acoustical performance relative to the published results are:

- Size and shape of canopy
- Number of canopies and their layout/location
- Suspension distance below exposed deck or finished ceiling

**5,000 SF Exposed Structure (15240 x 30480mm), 4572mm to deck, drywall with windows two sides, commercial carpet**

<table>
<thead>
<tr>
<th>Acoustic Solution</th>
<th>None</th>
<th>SoundScapes Canopies @ 25% of ceiling</th>
<th>SoundScapes Canopies @ 50% of ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverberation Time (sec)</td>
<td>3.4</td>
<td>1.5</td>
<td>0.9</td>
</tr>
<tr>
<td>RT reduction (%)</td>
<td>ref</td>
<td>57%</td>
<td>73%</td>
</tr>
<tr>
<td>SPL reduction (dB)</td>
<td>ref</td>
<td>-3 dB</td>
<td>-4 dB</td>
</tr>
<tr>
<td>Sound Absorption in Sabin (metric) for Coverage Area</td>
<td>ref</td>
<td>50 canopies @ 2.44 Sabin/panel = 122 Sabin</td>
<td>100 panels @ 2.44 Sabin/panel = 244 Sabin</td>
</tr>
</tbody>
</table>

**Kit Components**

- Pre-curved SoundScapes Canopies
- Hardware and aircraft cables included

**Panel Selection**

<table>
<thead>
<tr>
<th>Item No.*</th>
<th>Description</th>
<th>Dimension (mm)</th>
<th>Sabins (Matric)/Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1870181305</td>
<td>Large Hill</td>
<td>1870 1180 30</td>
<td>2.44</td>
</tr>
<tr>
<td>941941305</td>
<td>Large Valley</td>
<td>1870 1180 30</td>
<td>2.44</td>
</tr>
<tr>
<td></td>
<td>Small Hill</td>
<td>915 915 30</td>
<td>0.95</td>
</tr>
<tr>
<td></td>
<td>Small Valley</td>
<td>915 915 30</td>
<td>0.95</td>
</tr>
</tbody>
</table>

* Add 2-letter color suffix to item number when specifying or ordering (ex: 6254 L  M)

* Exact dimensions for each canopy are shown on page 4 inside.

<table>
<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>625530</td>
<td>Deck Hanging kit (Cable Adjuster+ Aircraft Cable + Locking Gate Hook + Spiral Anchor)</td>
</tr>
<tr>
<td>7006</td>
<td>Escutcheon Kit – Used when hanging canopy below an existing ceiling; 2 kits needed per SoundScapes panel.</td>
</tr>
</tbody>
</table>
### Installation Options and Details

#### Material
Curved canopy 30mm thick fiberglass with DuraBrite® scrim on face and back, painted sides.

#### Surface Finish
DuraBrite with factory-applied paint on face and back, painted sides. Standard White has energy-saving, high light-reflective finish (LR 0.90).

#### Design Considerations
Special care in installation and handling must be taken to avoid surface damage to the paint finish. Due to slight thickness and paint system variations, do not mix SoundScapes Canopies with other SoundScapes products.

#### Fire Performance
SoundScapes Canopies panel material is ASTM E84 Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

SoundScapes Canopies, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Consult a fire protection engineer, NFPA 13, and local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

#### Acoustical Performance
Acoustical performance differs based on panel size. See chart above for more information.

#### Recommended Suspension Systems
SoundScapes Canopies ships with the recommended installation components.

#### Seismic
SoundScapes Canopies must be installed to allow for 457mm of movement in each direction. Two panels must be installed a minimum of 915mm from each other.

#### Panel Weight
- Large Canopy - 23 Kgs./Panel
- Small Canopy - 8.5 Kgs./Panel

#### Warranty
One (1) year limited warranty.

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### Physical Data

- **ASTM E1264 Classification**
  - Type XII, Form 2, Pattern E

- **Acoustical Performance**
  - Type II, Pattern A

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