SOUNDSCAPES® Shapes is a designer acoustic panel, pre-formed into a convex, concave, square, circle, hexagon, trapezoid, or parallelogram shape.

SOUNDSCAPES Shapes improves the overall comfort of an individual’s working environment, offering excellent sound absorption and light reflectance. SOUNDSCAPES Shapes can be used to provide a striking design for a new space or be used to refresh or renovate an existing area. SOUNDSCAPES Shapes can retrofit to most ceiling systems in minutes and are the ideal solution for an area that suffers from background noise and reverberation.

No special tools are required for installation and you can easily adjust and fit the SOUNDSCAPES Shapes to a variety of heights and angles.

Hospitality, retail
Offices
Reception areas, atriums
Open plenum areas
Transportation, airports
Exhibitions
Available Shapes

SOUNDSCAPES® Shapes are flat, 30 mm thick, glass fibre panels available in 10 different shapes. The face and edges are finished with an abrasion resistant paint on a glass fibre face scrim providing a white and strong surface.

SOUNDSCAPES Shapes are very quick and easy to install, requiring no special tools and can easily be adapted to a variety of heights and angles.

A variety of colours are available on request.

Nominal 1200 x 1200 mm shapes

- **Square**
- **Convex**
- **Concave**
- **Circle**
- **Hexagon**
- **Trapezoid**
- **Left Parallelogram**
- **Right Parallelogram**

Nominal 1200 x 1800 mm shapes

- **Small Rectangle**
- **Large Rectangle**

Nominal 1200 x 2400 mm shapes
The installation of SOUNDSCAPES® Shapes in a reverberant space can significantly reduce the background noise and reverberation time, enhancing speech intelligibility.

**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.

Depending on its size, each SOUNDSCAPES Shapes provides between 1.61 and 5.05 Sabin of sound absorption per piece, calculated as an average of 500 – 4000 Hz (EN ISO 354).

SOUNDSCAPES Shapes provide greater sound absorption than a continuous ceiling of the same visible surface area because the sound is absorbed from both the front and back surfaces.

Which means one SOUNDSCAPES Shapes can absorb up to 88% more sound that the same visible surface area of a traditional wall to wall Optima high acoustic ceiling.

A number of factors may affect the installed acoustical performance including:
- Size and shape of cloud
- Number of clouds and their layout and suspension height
For SOUNDSCAPES® Shapes

Meeting Room with:
- a volume of 100 m³
- only with a carpet
- a soffit at 3.5 metre height
- a required Rt of 0.4 – 0.6 sec
  ➔ Will need 7 Concave and 8 Convex canopies
- See graph below

### Sound absorption – Sabin (metric)

<table>
<thead>
<tr>
<th>Shape</th>
<th>Sabin* per item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square</td>
<td>2.48</td>
</tr>
<tr>
<td>Convex</td>
<td>2.28</td>
</tr>
<tr>
<td>Concave</td>
<td>1.94</td>
</tr>
<tr>
<td>Circle</td>
<td>2.12</td>
</tr>
<tr>
<td>Hexagon</td>
<td>1.61</td>
</tr>
<tr>
<td>Trapezoid</td>
<td>2.15</td>
</tr>
<tr>
<td>Left Parallelogram</td>
<td>2.15</td>
</tr>
<tr>
<td>Right Parallelogram</td>
<td>2.15</td>
</tr>
<tr>
<td>Small Rectangle</td>
<td>3.77</td>
</tr>
<tr>
<td>Large Rectangle</td>
<td>5.05</td>
</tr>
</tbody>
</table>

*Average of 500 – 4000Hz in accordance with EN ISO 354-2003. These values may vary depending on the No. of units, spacing and suspended distance of units.

### Acoustical Panel Calculator

**Optra Convex Canopies**

In a space with a carpet

#### Continuous ULTIMA Ceiling

450 square metres Exposed Structure (15 metres x 30 metres), 4.5 metres to deck, drywall with windows two sides, commercial carpet

### Notes:
- All values for the averaged sound absorption coefficient, Sabin absorption, and dB level reduction of 125Hz-4kHz, are based on the speech frequency range of 500-4000Hz.
- Reverberation Time is an average of 500 & 1000Hz only.
- Sabin values are all metric.
SOUNDSCAPES® Shapes are extremely versatile and can be positioned individually or in a group. Thanks to the flexibility of the product and installation it is possible to create your own personal designs and layouts.

Using a grouping frame allows a perfect alignment of multiple Shapes close to each other.

You can group panels in unlimited combinations. Grouping layout ideas are suggested in the SOUNDSCAPES Shapes technical brochure. It is also possible to create your own personal designs and layouts.

Thanks to the flexibility of the grouping system, you can make your ideas become reality.

1. **Individual Suspension**

   Individual suspension requires:
   
   (2) Deck Hanging Kits (item 5450) for every 1200x1200 / 1200x1800mm Shapes panel
   (3) Deck Hanging Kits (item 5450) for 2400x1200mm Shapes panel

2. **Individual Attachment to Drywall**

   Individual attachment requires:
   
   (2) Drywall Hanging Kits (item 5455) for every 1200x1200 / 1200x1800mm Shapes panel
   (3) Drywall Hanging Kits (item 5455) for 2400x1200mm Shapes panel

3. **Group Suspension**

   See following page for components
Grouping Ideas – with standard accessory kits. Group applications always require more than one kit. You can group shapes in unlimited combinations. Below are a few ideas made possible.

4-Panel Square Group Layouts
To create these kinds of groups with a minimum of 50mm spacing between shapes, you need to order:

**Accessories**
- 2 x 5450 Deck Hanging Kits
- 1 x 5453 Frame Alignment Kit
- 1 x 5451 Grouping Frames Kit
- 4 x 5454 Panel Hook Kits

4-Panel Linear Group Layouts
To create these kinds of groups with a minimum of 50mm spacing between shapes, you need to order:

**Accessories**
- 4 x 5450 Deck Hanging Kits
- 1 x 5452 Frame Splice Kit
- 2 x 5453 Frame Alignment Kits
- 2 x 5451 Grouping Frame Kits
- 4 x 5454 Panel Hook Kits

9-Panel Square Group Layouts
To create these kinds of groups with a minimum of 50mm spacing between shapes, you need to order:

**Accessories**
- 5 x 5450 Deck Hanging Kits
- 3 x 5453 Frame Alignment Kits
- 2 x 5451 Grouping Frame Kits
- 9 x 5454 Panel Hook Kits

4-Panel Rectangular Layout
To create these kinds of groups with a minimum of 50mm spacing between shapes, you need to order:

**Accessories**
- 3 x 5450 Deck Hanging Kits
- 1 x 5453 Frame Alignment Kit
- 1 x 5451 Grouping Frame Kit
- 4 x 5454 Panel Hook Kits

7-Panel Group Layouts
To create these kinds of groups with a minimum of 50mm spacing between shapes, you need to order:

**Accessories**
- 5 x 5450 Deck Hanging Kits
- 3 x 5453 Frame Alignment Kits
- 2 x 5451 Grouping Frame Kits
- 7 x 5454 Panel Hook Kits

Panel / Colour Selection

<table>
<thead>
<tr>
<th>Shape</th>
<th>Traffic White</th>
<th>Light Ivory</th>
<th>Pale Green</th>
<th>Pastel Blue</th>
<th>Traffic Grey</th>
<th>Pale Brown</th>
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</thead>
<tbody>
<tr>
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<td>SSSQ6FTWH</td>
<td>SSSQ7FLIV</td>
<td>SSSQ7FPGR</td>
<td>SSSQ7FPBL</td>
<td>SSSQ7FTGR</td>
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<td>SSCA7FPGR</td>
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<td>SSCA7FPBR</td>
</tr>
<tr>
<td>Circle</td>
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<td>SSC7FLIV</td>
<td>SSC7FPGR</td>
<td>SSC7FPBL</td>
<td>SSC7FTGR</td>
<td>SSC7FPBR</td>
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<tr>
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<td>SSM7FPBL</td>
<td>SSM7FTGR</td>
<td>SSM7FPBR</td>
</tr>
<tr>
<td>Trapezoid</td>
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<td>SSTR7FLIV</td>
<td>SSTR7FPGR</td>
<td>SSTR7FPBL</td>
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<td>SSTR7FPBR</td>
</tr>
<tr>
<td>Left Parallelogram</td>
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<td>SSLP7FLIV</td>
<td>SSLP7FPGR</td>
<td>SSLP7FPBL</td>
<td>SSLP7FTGR</td>
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<tr>
<td>Right Parallelogram</td>
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<tr>
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<td>SSRRL7FPBL</td>
<td>SSRRL7FTGR</td>
<td>SSRRL7FPBR</td>
</tr>
</tbody>
</table>

Design Consideration: SOUNDSCAPES® Shapes maintain a natural sag that may be noticeable when installed 150mm or less apart. Deflection up to 3mm has been documented in some cases.

**NOTE:** See Installation Instructions for details on typical group configurations. CAD details showing various spacing options depending on panel shape are also available on the web at www.armstrongceilings.com.au. Installation will require field cutting of the grouping frames. Increasing the spacing between shapes may require additional hardware. If you need assistance identifying what and how many accessory kits are needed for your project, please contact your local Armstrong Ceilings representative.
Material: Glass fibre substrate
Recycled Content 80%

Surface Finish: Durable scrim with factory-applied paint

Colour: 6 Standard colours, Traffic White (Stock).
Special RAL colours available.

Edge Detail: Painted square edge

Sizes: 1200x1200, 1200x1800, 1200x2400mm (nom)

Thickness: 30mm

Humidity resistance: 95% RH

Light reflectance: 90%

Weight Substrate: 4kg/m² Square panel with hanging frame, 6.5kg

Acoustical performance: 2.48 Sabins per panel (based on Square Panel)
NRC equivalent of 0.95 (full ceiling application)


Suspension System: Variety of accessory kits available for individual or group suspension or direct attachment to plasterboard ceiling.

Installation Considerations: SOUNDSCAPES® Canopies must remain in their cartons until ready to install. See installation instructions on website for details.

Cleaning: Use a clean, dry, soft white cloth to wipe off any dirt or fingerprints. Regular light dusting of the back side of the canopy is recommended.

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