

SOUNDSCAPES® SHAPES

Now available in Wood Effects and Powercoated Colours



Create, Accentuate, Define

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 and Retail
Offices
Reception Areas
Atriums
Open Plenum Areas
Transportation
Airports
Exhibitions

Standard Finishing



Traffic White

Light Ivory

Pale Green

Pastel Blue

Traffic Grey

Pale Brown



Wood
Effects
available
upon request



Powdercoated
colours
available
upon request

Available Shapes



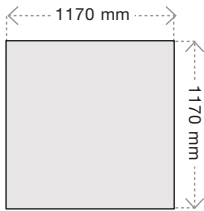
All SOUNDSCAPES Shapes are flat panels.

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.

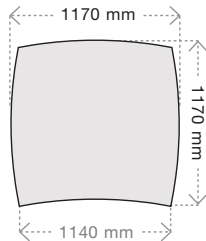
SOUNDSCAPES Shapes are very quick and easy to install, requiring no special tools and can easily be adapted to a variety of heights and angles.

A variety of colours are available on request.

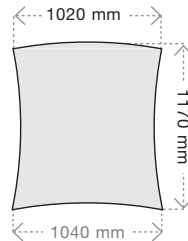
Nominal 1200 x 1200 mm shapes



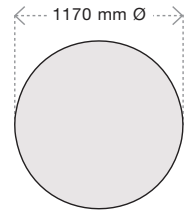
Square



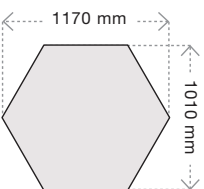
Convex



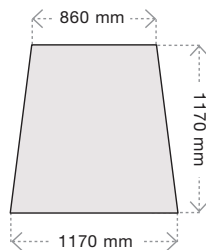
Concave



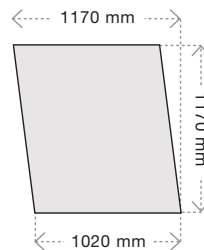
Circle



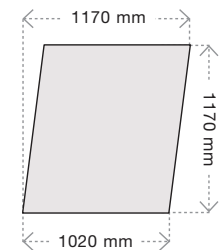
Hexagon



Trapezoid



Left Parallelogram



Right Parallelogram

Nominal 1200 x 1800 mm shapes

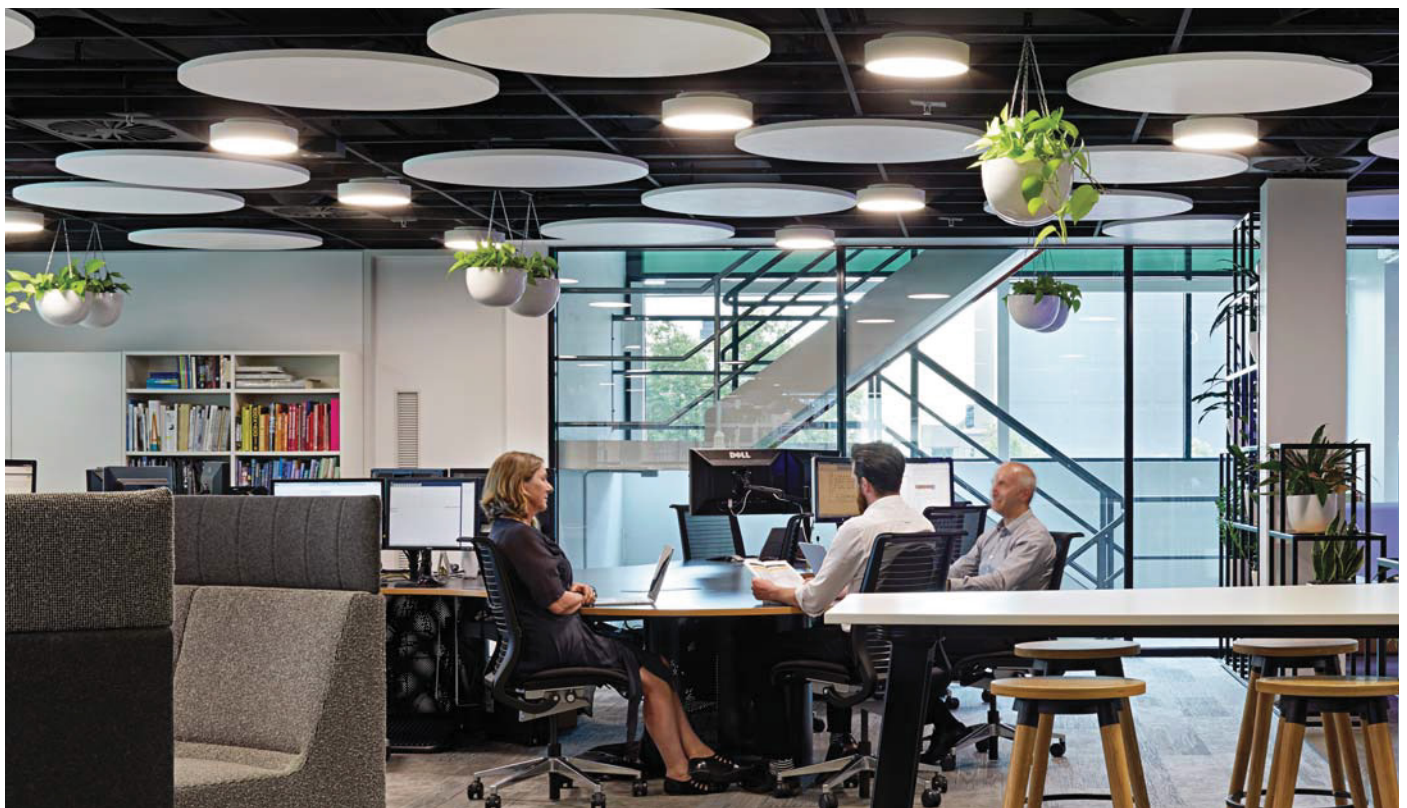


Small Rectangle

Nominal 1200 x 2400 mm shapes



Large Rectangle





Enhancing Acoustical Benefits

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.

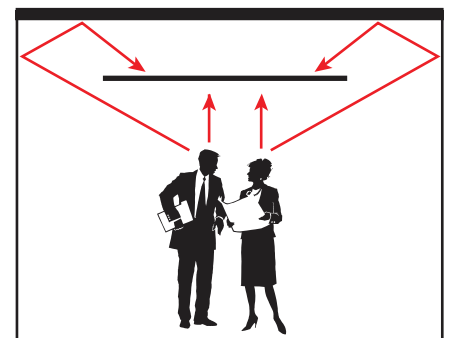
Depending on its size, each SOUNDSCAPES Shapes provides between 1.61 and 5.05 Sabin of sound absorption per piece, calculated as an average of 500 – 4000 Hz (EN ISO 354).

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 than the same visible surface area of a traditional wall to wall OPTRA 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





Sound absorption – Sabin (metric)

Shape	Sabin* per item
Square	2.48
Convex	2.28
Concave	1.94
Circle	2.12
Hexagon	1.61
Trapezoid	2.15
Left Parallelogram	2.15
Right Parallelogram	2.15
Small Rectangle	3.77
Large Rectangle	5.05

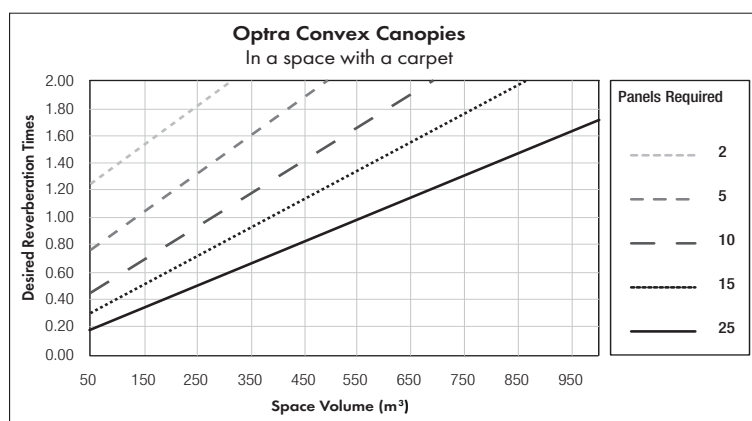
* Average of 500 – 4000Hz in accordance with EN ISO 354-2003. These values may vary depending on the No. of units, spacing and suspended distance of units.

For SOUNDSCAPES® Shapes Convex

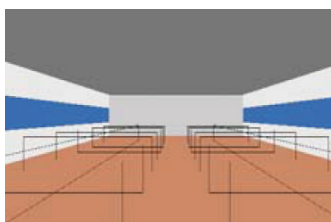
Meeting Room with:

- a volume of 100m³
- 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

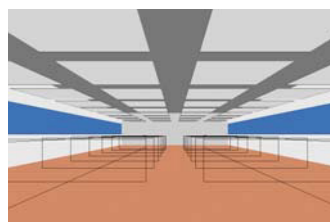
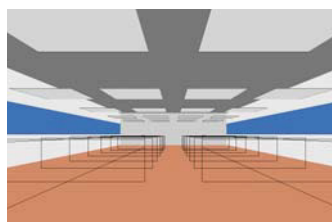
Acoustical Panel Calculator



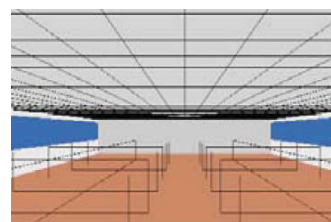
EXPOSED STRUCTURE



SOUNDSCAPES SHAPES



FULL ULTIMA® CEILING



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

Acoustic Solution	None Exposed Structure	SOUNDSCAPES Shapes @ 25% of ceiling 78 Panels: Squares	SOUNDSCAPES Shapes @ 50% of ceiling 156 Panels: Squares	Continuous ULTIMA Ceiling Suspended 1 metre below deck
Reverberation Time (sec)	3.4	1.3	0.8	0.6
RT reduction (%)	ref	62%	76%	83%
SPL reduction (dB)	ref	-3 dB	-5 dB	-5 dB
Sound Absorption in Sabin (metric) for Coverage Area	ref	78 panels @ 2.48 Sabin/panel = 193.4 Sabin	156 panels @ 2.48 Sabin/panel = 386.9 Sabin	450m ² x 0.84α = 378 Sabin

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.

Individual Suspension and Group Configuration

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.

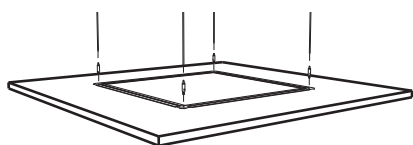
Using a grouping frame allows a perfect alignment of multiple Shapes close to each other.

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.



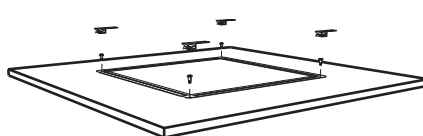
1. Individual Suspension



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

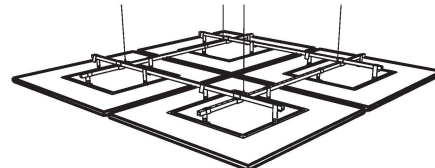
2. Individual Attachment to Drywall



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



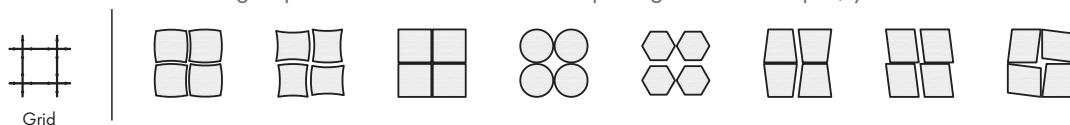
See following page for components

Ways you can Suspend SOUNDSCAPE Shapes in Groups

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:

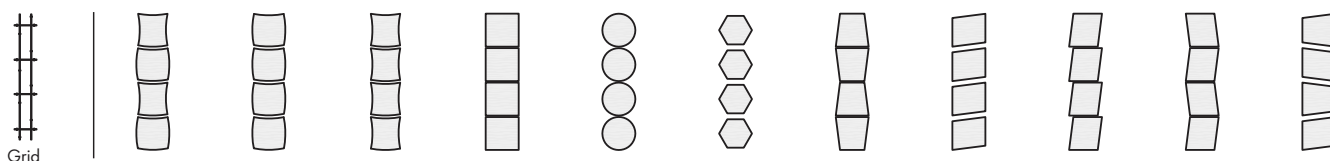


Accessories

- 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:

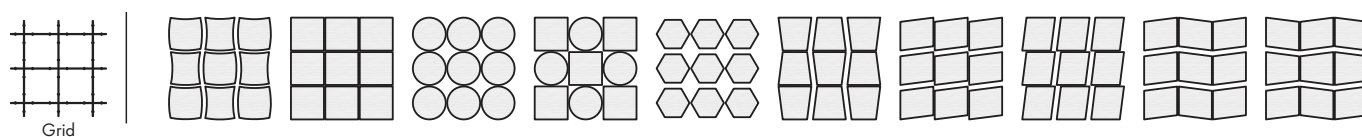


Accessories

- 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:

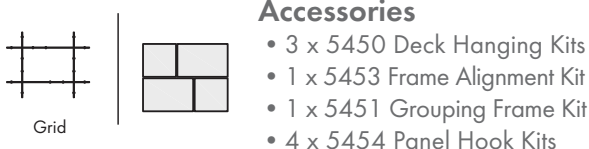


Accessories

- 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:

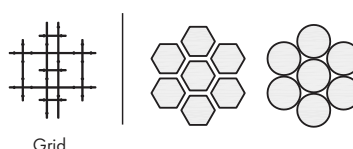


Accessories

- 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:

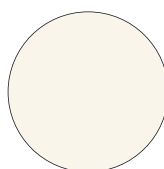


Accessories

- 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 / Item / Colour Selection

Shape	Traffic White
Square	SSSQ6FTWH
Convex	SSCE6FTWH
Concave	SSCA6FTWH
Circle	SSCI6FTWH
Hexagon	SSHE6FTWH
Trapezoid	SSTR6FTWH
Left Parallelogram	SSLP6FTWH
Right Parallelogram	SSRP6FTWH
Small Rectangle	SSSR6FTWH
Large Rectangle	SSLR6FTWH



Traffic White
(RAL 9016)



Wood Effects



RAL Colours

For a full list of available colour options, refer to the
"SOUNDSCAPES Finishes" Brochure.

* Minimum order applies for Wood Effects & RAL colour match.




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.knaufarmstrong.com. 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 sales representative.

Key Selection Attributes

- Enhance Acoustics in open areas
- Improves sound absorption and reduces reverberation time
- Aesthetically defines space
- Options of 10 flat “Shapes” panels and three sizes
- Install individually or in groups – create your own design
- Height adjustable
- Complete range of hanging accessories
- Sustainable design: Environment preferred product that has been tested and certified by industry leading Eco-classification
- SOUNDSCAPES is a value-added product made from Armstrong OPTRA FG product line.

Physical Data

Material:	Glass fibre substrate Recycled Content 80%
Surface Finish:	Durable scrim with factory-applied paint
 Colour:	Traffic White – RAL 9016 (stock items), with Special RAL and Wood Effects Colours available.
 Edge Detail:	Painted square edge
 Panel Sizes:	1200x1200, 1200x1800, 1200x2400mm (nom)
 Thickness:	30mm
 Humidity resistance:	95% RH
 Light reflectance:	90%
 Weight Substrate:	4kg/m ² 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)
 Fire Performance:	BS476 Part 6 & 7, Class 0
 Suspension System:	Variety of accessory kits available for individual or group suspension or direct attachment to plasterboard ceiling.
Installation:	SOUNDSCAPES® panels 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.
 Recycled Content:	80%



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