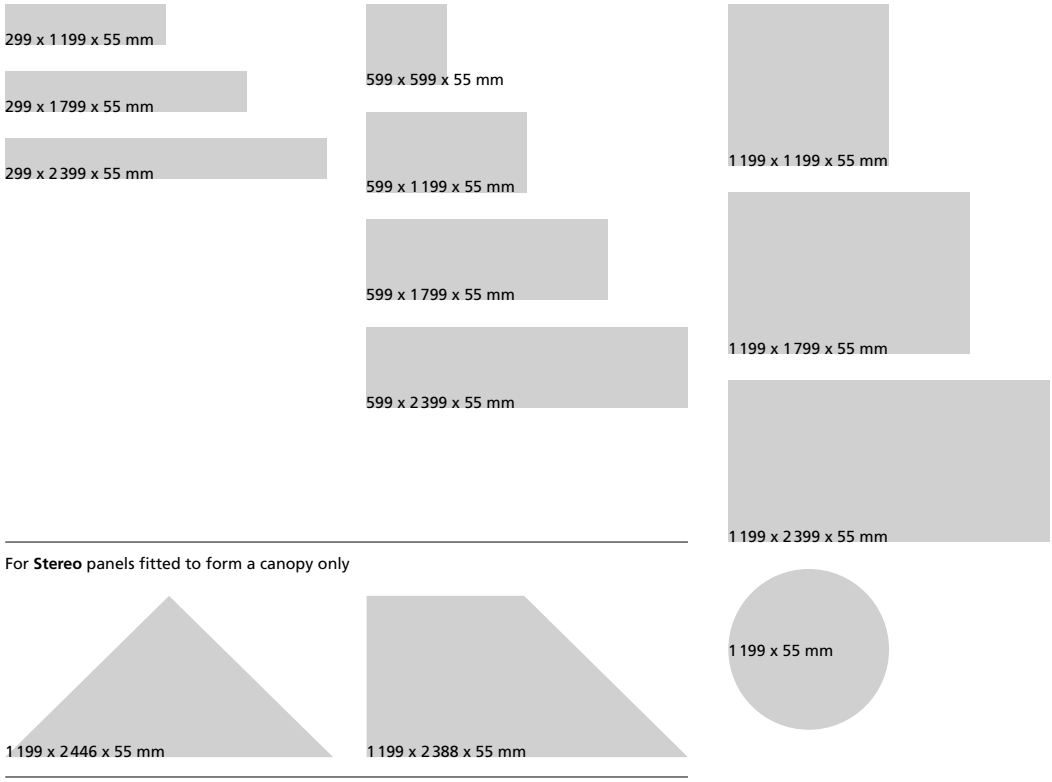
Stereo acoustic panels

Single-sided Stereo panels

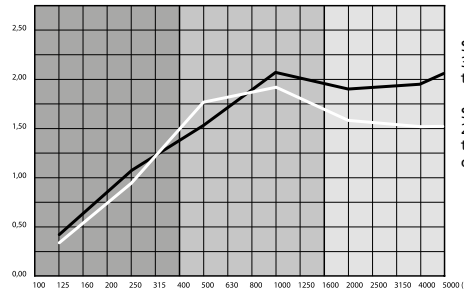
Our single-sided **Stereo** panels are available in a wide variety of modular sizes and in all of the 22 colours of the **Aeria** fabric range. Their metal frames guarantee the strict geometric form of each element, making them perfectly adaptable to any environment.
Stereo panels are efficient acoustic tools when used in isolation or grouped together, fitted to walls or ceilings or suspended from cables. They may be implemented in spatial configurations in which acoustics require pinpointed treatment, or used to treat a given volume as a whole. A simple system allows them to be joined together to form a large acoustic cloud, inspiring creative combinations in terms of size, colour, printed or embroidered motifs.



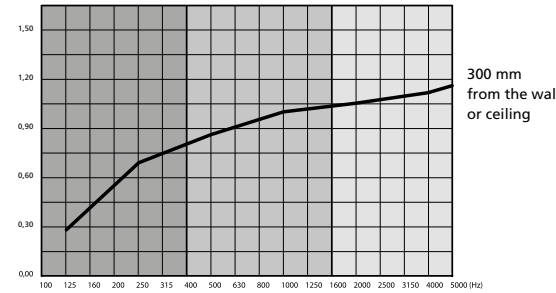
Acoustic performance

• For a 1 199 x 1 199 x 55 mm panel

Equivalent absorption area for an object A (m²) – spacing: 1 500 mm



α_{Sabine} – hanging in a cluster



Frequencies (Hz)	125	250	500	1 000	2 000	4 000
Equivalent absorption area for an object A (m²) – spacing: 1 500 mm						
Suspended 300 mm from the ceiling	0.47	1.07	1.52	2.04	1.88	1.97
Screwed 10 / 20 mm from the wall or ceiling	0.38	0.90	1.78	1.89	1.60	1.51

Fréquences (Hz)	125	250	500	1 000	2 000	4 000			
α_{Sabine} – hanging in a cluster							α_w	class	NRC
300 mm from the wall or ceiling	0.29	0.70	0.85	1.01	1.05	1.11	0.95 (H)	A	0.90

Test reports available on request – Norm NF EN 20354 / ISO 354
Inserting light fittings into the panel may affect acoustic performance – please contact us for further details

Specifications for single-sided Stereo panels

A high level of acoustic absorption is provided by **Texaa®** Stereo single-sided panels, which comprise:
– a metal frame made of aluzinc steel
– grey AN cellular foam
– an inner grey or black microporous cloth cladding
– a removable and machine washable **Aeria** textile cover on one side

European reaction to fire classification for complete product
B-s2, d0 – No flaming droplets or particles

Environmental characteristics
HQE : FDES (EN 15804) – Environmental and Health declaration forms certified by AFNOR
LEED / BREEAM :
3 points for { – acoustic efficiency; – certified Environmental and Health Declaration Forms (EN 15804)

Performance indicators for Aeria
Hydro / Oleo-phobic ≥ 5 (AATCC118)
Antistatic properties: 7 10^{10} Ω (EN1149-1)

Cleaning
Vacuum cleaning, machine washable cover

Guarantee
10 years

Colours
Available in a range of 22 colours

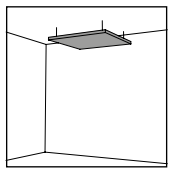
Common options
☐ “Black and White II”
☐ Embroidery option

Fitting Methods

☐ **Suspended from vertical cables, in isolation**
Each single-sided Stereo panel is suspended horizontally from the ceiling by means of 4 galvanized steel vertical cables (diameter 1.5 mm, length 1000 mm), equipped with a threaded end-pieces (M6) and adjustable hooks.

☐ Option: custom-made to accommodate a light fitting (size and position to be determined according to specifications described on page 22).

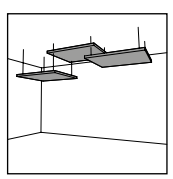
☐ Optional covering for top side



Galvanized steel rawlplug cover (option)

☐ **Suspended from vertical cables, overlaid**
Each single-sided **Stereo** panel is suspended horizontally from the ceiling by means of 4 galvanized steel vertical cables (diameter 1.5 mm, length 3000 mm), equipped with threaded end-pieces (M6). Several panels may be suspended from the same cables, in overlapping fashion.
A finishing terminal is fitted to the cable where it emerges from each panel.
Configuration to be specified in a sketch.

☐ Top-side cover option, recommended in two cases:
– when the arrangement of panels makes the top side visible
– when the panels are arranged in close configuration (light reflection)



Adjustable sliders

Finishing terminal

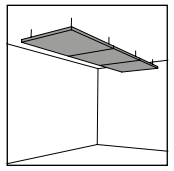
☐ **Suspended from vertical cables, joined together**
Each single-sided Stereo panel is suspended horizontally from the ceiling by means of 4 galvanized steel vertical cables (diameter 1.5 mm, length 1000 mm), equipped with a threaded end-pieces (M6) and adjustable hooks. The panels are assembled using brackets.
Configuration to be specified in a sketch.

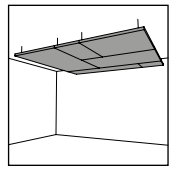
☐ Marquetry option (different panel sizes)
NB: the drape and direction of the knit in the covers varies in accordance with the size and positioning of the panels.

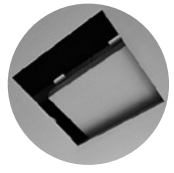
☐ Option: custom-made to accommodate a light fitting (size and position to be determined according to specifications described on page 22).

☐ Option: integration of access hatch 599 x 599 mm

☐ Optional fabric covering for top side

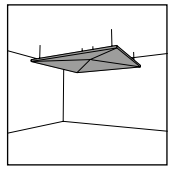


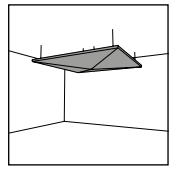




Integrated access hatch

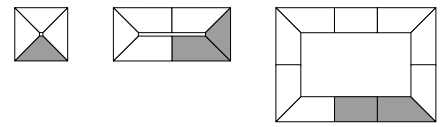
☐ **Suspended from vertical cables, as a canopy**
Each single-sided Stereo panel is suspended from the ceiling to form a convex or concave canopy with a gradient of 7° by means of 4 galvanized steel vertical cables (diameter 1.5 mm, length 1000 mm), equipped with a threaded end-pieces (M6) and adjustable latch-eye hooks. The panels are assembled using pairs of brackets. The top side of each panel is covered in fabric.





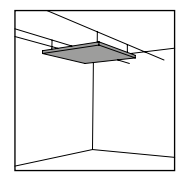
The canopies are formed by:
– triangular panels
– and / or trapezoid panels
– and / or rectangular panels
forming a convex or concave arrangement.
Configuration to be specified in a sketch.

A 70 mm wide opening lies at the centre of the structure to allow air, cables or light fittings to pass through.



☐ **Suspended from horizontal cables**
Each single-sided Stereo panel is suspended horizontally from the ceiling by means of 4 galvanized steel vertical cables (diameter 1.5 mm, length 1000 mm), equipped with threaded end-pieces (M6) and adjustable hooks.
Cross-shaped cable clamps are provided, compatible with the horizontal cables (2 to 6 mm in diameter).

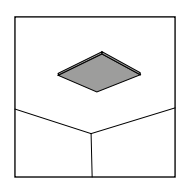
☐ Optional fabric covering for top side



Cross-shaped cable clamps

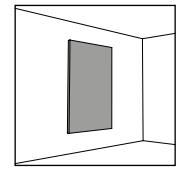
☐ **Screwed to the ceiling**
Each single-sided **Stereo** panel is attached to two 20 mm support rails, in turn fixed to the ceiling with screws.
NB: Fitting / removal requires a 20-mm gap on one side of the panel.

☐ Cluster arrangement option
Configuration to be specified in a sketch.



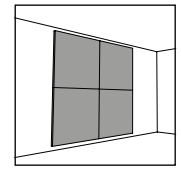
☐ **Clipped to the wall, in isolation**
Each single-sided Stereo panel is clipped onto two 10 mm support rails, in turn fixed to the ceiling with screws. It is imperative that the rails be positioned horizontally along the edges of the panel:

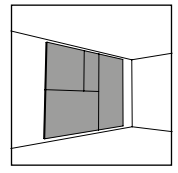
☐ 599 ☐ 1199 ☐ 1799 ☐ 2399 mm [specify]



☐ **Clipped to the wall, in clusters**
Each single-sided Stereo panel is clipped onto two 10 mm support rails, in turn fixed to the ceiling with screws. Rails are 3 m in length.
Configuration to be specified in a drawing.

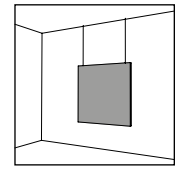
☐ Marquetry option (different panel sizes)
NB: the drape and direction of the knit in the covers varies in accordance with the size and positioning of the panels.



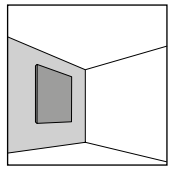


☐ **Suspended from vertical cables, against the wall**
Each single-sided **Stereo** panel is suspended vertically from a picture rail using galvanized steel cables (1.5 mm in diameter and 1000 mm long), equipped with a spherical end-piece.
The rear of each panel is equipped with two adjustable sliders.

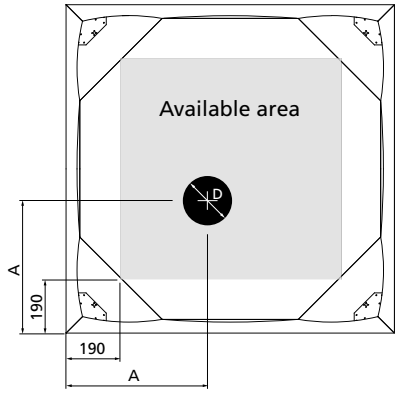
☐ White lacquered aluminium rails, length 2000 mm



☐ **Fitted to metallic partitions with magnets**
Each single-sided Stereo panel can be fixed to metal furniture or partitions using 8 mm thick magnets.
NB: please ensure that the surface in question is suitable for the use of magnets.



☐ **Optional space for integrated light fittings**
The light fitting must be positioned within the grey zone, as shown below



$$A - \frac{D}{2} > 190 \text{ mm}$$

The exact dimensions of the space required by the light fitting should be specified on ordering:
– position of the centre of the light fitting
– dimensions of required space (< 600 mm)

Dimensions / weight / acoustic performance [specify]

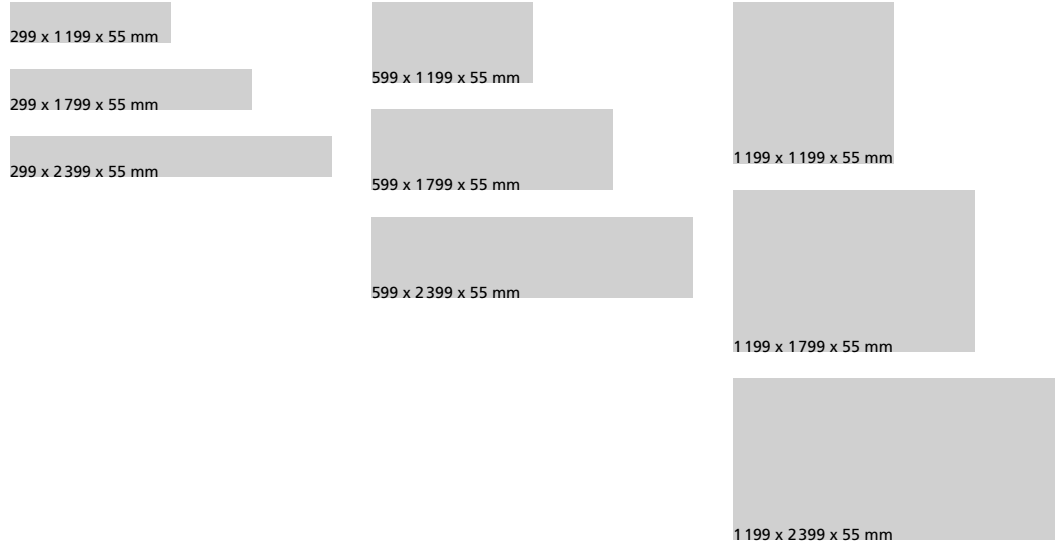
	Dimensions (mm)	Weight (kg)	Equivalent absorption area of an object A (m²) at medium frequencies		α_w
			Against the substrate	300 mm from the substrate	In a cluster
☐	299 x 1 199 x 55	3.7	-	-	-
☐	299 x 1 799 x 55	5.0	-	-	-
☐	299 x 2 399 x 55	6.0	-	-	-
☐	599 x 599 x 55	3.3	-	-	-
☐	599 x 1 199 x 55	4.3	0.98	0.87	-
☐	599 x 1 799 x 55	6.0	-	-	-
☐	599 x 2 399 x 55	7.2	-	-	-
☐	1 199 x 1 199 x 55	5.6	1.77	1.72	0.95
☐	1 199 x 1 799 x 55	8.4	2.54	2.36	-
☐	1 199 x 2 399 x 55	9.7	3.18	3.30	-
☐	ø 1 199 x 55	6.4	-	1.30	-
☐	triangle 1 199 x 2 446	8.5	-	-	-
☐	trapezoid 1 199 x 2 388	9.6	-	-	-

Production time
3 weeks
+1 additional week for options

Professionals to be consulted
General fitters and carpenters

Ceiling-hung double-sided Stereo panels

Seemingly floating between floor and ceiling, ceiling-hung double-sided **Stereo** panels may be used in clusters to provide maximum acoustic comfort. When screwed to walls or ceilings, they form an acoustic shield, dramatically redefining any given space. Both faces of each panel are perfectly clad in a removable textile cover.



Specification Sheet for Stereo and Abso Products

Definition	Stereo	Abso
Fitting	Ceiling-hung, screwed in or freestanding	Ceiling-hung or freestanding
Materials used	**Aeria***/ grey AN foam / grey or black microporous cloth / aluzinc steel frame	**Aeria***/ Grey AP foam
Coulours	22 colours	22 colours
Physical properties		
Thermal resistance (EN 12667)	0.032 – 0.034 W / mK	0.032 – 0.034 W / mK
Light reflectance (for colour Nacre MR 640)	81 %	81 %
Durability		
Mechanical properties		
– Abrasion resistance (EN 530 – resistance to rubbing)	> 40 000	> 40 000
– Fraying	none	none
– Variations in dimension (given normal temperature and humidity conditions)	no	±1 %
– Colour fastness (ISO 105-B02 – scale 1 to 8)	≥ 5	≥ 5
– Electrostatic properties (EN 1149-1)	7 10^{10} Ω	7 10^{10} Ω
– Fluid repellent treatment AATCC118 (scale 1 to 8)	≥ 5	≥ 5
– Conditions of normal exposure	Relative humidity between 30 % and 75 % and temperature between 10 °C and 30 °C	Relative humidity between 30 % and 75 % and temperature between 10 °C and 30 °C
– Conditions of exceptional exposure	Relative humidity between 20 % and 90 % and temperature between 10 °C and 30 °C	Relative humidity between 20 % and 90 % and temperature between 10 °C and 30 °C
Health and safety		
Fire safety ratings	No flaming droplets or particles	-
– Europe EN – for complete product	B-s2, d0	C-s3, d0
– France NF – individual materials	-	M1 non dripping
– United States ASTM	Class A	-
Higher heating value (EN ISO 1716)	19,81 MJ / kg 13,77 MJ / m^2	19.915 MJ / kg -
Environmental standards		
Development of micro-organisms	The materials used reduce the presence of house dust mites and micro-organisms	The materials used reduce the presence of house dust mites and micro-organisms
HQE® High Quality Environmental Standard (Norm EN 15804)	Certified health and environment declaration forms available on request	-
Emissions of VOC and formaldehyde (ISO 1600) French health labelling / in accordance with German protocol AgBB (mai 2010)	A / Compliant	A+
Contributions to LEED / BREEAM certification – Certified environmental declaration forms – Product declaration – Air emissions – Acoustic performance	3 points	-
Cleaning		
Method	Vacuum clean every one to five years, depending on conditions of use*** Removable textile cover, machine washable at 30 °C, dry flat	Vacuum clean every one to five years, depending on conditions of use*** Removable textile cover, machine washable at 30 °C, dry flat**

* Sound transparent textile, exclusively patented by **Texaa®**

** Except for insertable ceiling pads

*** Please refer to the cleaning and maintenance sheets