Texaa®

Specification and data sheets

Strato
Ceilings

Production time

4 weeks
Options: please contact us

**Professionals to be
consulted for fitting**

General fitters and carpenters

Strato ceiling

Strato ceilings enable the complete architectural design process to be free and technical at the same time.

They can combine opaque components with slightly transparent ones: Stereo acoustic panels and Stereo Air open mesh panels.

Strato is a continuous floating ceiling, whose combinations are infinite and can meet designers' requirements in terms of performance and appearance that they expect to deliver with their design.
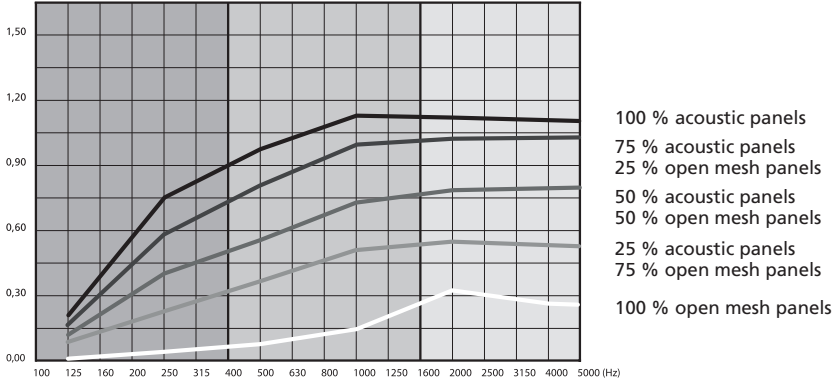
Strato ceilings are pleasant to look at and invitingly warm, while being light, but robust.

They are easy to install and maintain.

Acoustic performance

For 1,199 x 1,199 x 55 mm panels

α_{Sabine} – hanging in a cluster, 300 mm below the ceiling

100 % acoustic panels

75 % acoustic panels
25 % open mesh panels

50 % acoustic panels
50 % open mesh panels

25 % acoustic panels
75 % open mesh panels

100 % open mesh panels

Frequencies (Hz)	125	250	500	1,000	2,000	4,000			
α_{Sabine} – hanging in a cluster, 300 mm below the ceiling							α_w	Class	NRC
100 % acoustic panels	0.23	0.76	0.97	1.13	1.12	1.11	1	A	1
75 % acoustic panels – 25 % open mesh panels	0.17	0.59	0.80	0.95	0.98	0.98	0.85	B	0.85
50 % acoustic panels – 50 % open mesh panels	0.12	0.42	0.58	0.73	0.78	0.79	0.65	C	0.65
25 % acoustic panels – 75 % open mesh panels	0.08	0.24	0.34	0.50	0.55	0.52	0.45	D	0.40
100 % open mesh panels	0.01	0.04	0.07	0.15	0.33	0.26	0.15	E	0.15

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

Specification

Strato ceilings, made by **Texaa®**, consist of:
acoustic panels made up of:
  – an Aluzinc® steel frame, treated to improve its resistance to corrosion
  – a layer of fully recycled white AF1 felt
  – a grey or black microporous cloth cladding
  – a removable cover made of sound transparent, **round knit Aeria fabric (330 g/m²)**
    which provides a run-resistant, antistatic and dirt-repellent covering on five faces
and open mesh panels made of:
  – an Aluzinc® steel frame, treated to improve its resistance to corrosion
  – a cover made of sound transparent, **large round knit Aeria fabric (190 g/m²)**
    which provides a run-resistant, antistatic and dirt-repellent covering on five faces

Durability of the fabric cover
Performance of **Aeria** fabric:
330 g/m² (acoustic panel) / 190 g/m² (open mesh panel) / Run-resistant
Protection against soiling:
Hydro/Oleophobic $\geq$ 5 (AATCC118 and AATCC193)
Electrostatic properties $7.10^{10}\,\Omega$ (EN 1149-1)

Acoustic performance
Acoustic panel α_w = 1, NRC = 1, class A / **Open mesh panel** α_w = 0.15, NRC = 0.15, class E

European reaction to fire classification
Acoustic panel complete product B-s2,d0 / **Open mesh panel** complete product B-s1,d0

Other characteristics of the open mesh panel
– Air permeability (ISO 9237): 6596 l/m²/s
– Porosity: 54%
– Light transmission, Granit colour:
• 52% for a spotlight located between 50 and 1,600 mm from the panel
• 55% for a light panel located between 50 and 1,600 mm from the panel
– Light transmission, Nacre colour:
• 52% for a spotlight located between 50 and 1,600 mm from the panel
• 86% for a light panel located 50 mm from the panel and 65% for a light panel located
  1,600 mm from the panel.

Environmental characteristics
HQE: EPD (EN 15804) – Environmental and Health Product Declarations certified by AFNOR
LEED / BREEAM:
4 points for { – acoustic contribution
              – EPD (EN 15804) certified
              – very low VOC (Volatile Organic Compounds) and formaldehyde emissions.

Impact on climate change:
14.2 kg CO2 eq /m² **(Stereo Air open mesh panel)** / Proportion of recycled components: $\geq$ 43%
22.7 kg CO2 eq /m² **(Stereo acoustic panel) /** Proportion of recycled components: $\geq$ 57%

Cleaning
Vacuum cleaning, may be removed and refitted. Cover is removable and machine washable

Guarantee
10 years

Colours
Acoustic panel: select from the 30 colours in the round knit (MR) palette, special colours available on request
Open mesh panel: select from the 2 colours in the large round knit (GMR) palette
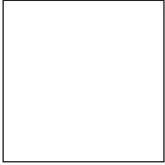
Sizes

Open mesh panels

599 x 1,199 x 55 mm

599 x 2,399 x 55 mm

1,199 x 1,199 x 55 mm

1,199 x 2,399 x 55 mm

Dimensions / weight / acoustic performance [specify]

Dimensions (mm)	Weight (kg)	Sound absorption coefficient α_w
☐ 599 x 1,199 x 55-mm open mesh panel	3.5	-
☐ 599 x 2,399 x 55-mm open mesh panel	5.2	-
☐ 1,199 x 1,199 x 55-mm open mesh panel	4.4	0.15
☐ 1,199 x 2,399 x 55-mm open mesh panel	6.3	-

Acoustic panels

299 x 1,199 x 55 mm

299 x 1,799 x 55 mm
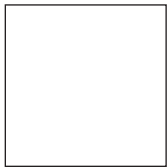
299 x 2,399 x 55 mm
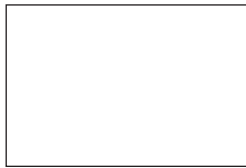
599 x 1,199 x 55 mm

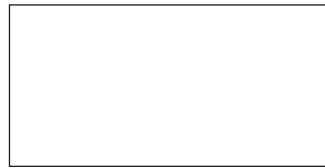599 x 1,799 x 55 mm

599 x 2,399 x 55 mm

599 x 599 x 55 mm

1,199 x 1,199 x 55 mm

1,199 x 1,799 x 55 mm

1,199 x 2,399 x 55 mm

Dimensions / weight / acoustic performance [specify]

Dimensions (mm)	Weight (kg)	Sound absorption coefficient α_w
☐ 299 x 1,199 x 55-mm acoustic panel	4.3	-
☐ 299 x 1,799 x 55-mm acoustic panel	5.9	-
☐ 299 x 2,399 x 55-mm acoustic panel	7.2	-
☐ 599 x 599 x 55-mm acoustic panel	3.9	-
☐ 599 x 1,199 x 55-mm acoustic panel	5.5	-
☐ 599 x 1,799 x 55-mm acoustic panel	7.8	-
☐ 599 x 2,399 x 55-mm acoustic panel	9.6	-
☐ 1,199 x 1,199 x 55-mm acoustic panel	8	1
☐ 1,199 x 1,799 x 55-mm acoustic panel	12	-
☐ 1,199 x 2,399 x 55-mm acoustic panel	14.4	-

Installation methods

☐ **Installation: suspended from vertical cables, joined together**

Each panel is suspended horizontally from the ceiling by means of galvanized steel vertical cables (diameter 1 mm, length 1,000 mm), each with a cylindrical cover and an adjustable latch-eye hook. The panels are connected together with linking brackets.

Configuration to be specified in a drawing.
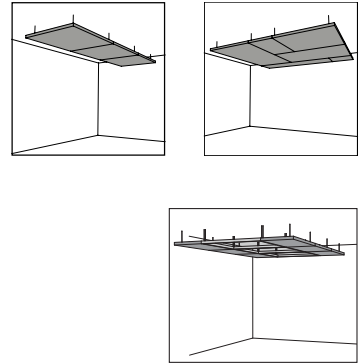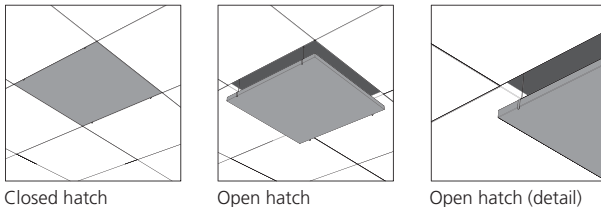
STEREO ACOUSTIC PANELS OPTIONS

☐ **Embroidery option**

☐ **Channels for cables to pass through**

☐ **Combination option (panels with different sizes)**
Caution, the arrow and the knit direction for the covers vary as a function of the sizes and positioning of the panels.

☐ **Optional recess for light fitting, loudspeaker, etc.**
The recess must be positioned within the grey zone, as shown below:

Zone available

$$A - \frac{D}{2} > 190 \text{ mm}$$
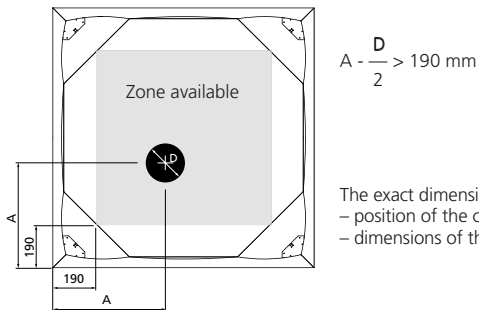
The exact dimensions of the recess required should be specified when ordering:
– position of the centre of the recess required
– dimensions of the recess required (< 600 mm)

COMMON OPTIONS

☐ **Access hatch options**

Closed hatch Open hatch Open hatch (detail)

☐ **Specific sizes on request**
Width from 300 to 1,200 mm and length from 600 to 2,400 mm for Stereo acoustic panels.
Width from 400 to 1,200 mm and length from 600 to 2,400 mm for Stereo Air open mesh panels.
Please contact us for larger sizes.

☐ **Optional 3,000-mm cable**

Aeria - cleaning guidelines

To protect the fresh colour of your **Aeria** fabric, we advise
you to clean it regularly by:
– removing dust with a soft brush and vacuum cleaner
– using an absorbent cloth to soak up spilt liquids
– cleaning marks or stains quickly, before they have time to dry and become
  harder to remove

Aeria is treated with a water-repellent product, so any stains can usually be
removed by gently dabbing. Never rub the fabric.

If a stain proves harder to remove, please follow the instructions below:

For water-based liquids (tea, coffee, soft drinks, wine, etc.)
If the stain has penetrated the fabric, use a vacuum cleaner to remove any
dust from the soiled area. Then, rehydrate the stain by dabbing the marked
area with one hand using a cloth dampened with clean water, and dry the
area with the other hand using a dry, clean absorbent cloth. If the stain
persists, repeat the process using water and a little soap.

For oil-based liquids
Dab the stain with a clean cloth dampened with undiluted solvent-based
cleaning fluid. Remember to fold the cloth frequently, so that the stain is
always in contact with a clean part of the cloth's surface.

For semi-solid stains, such as butter, ketchup, etc
Remove any remaining solid material with a spatula and proceed with the
cleaning method detailed above for oil-based liquids.

For dye-based stains (marker pen, biro, ink, etc.)
Dab the stain with a clean cloth dampened with a solvent such as methanol.
Remember to fold the cloth frequently, so that the stain is always in contact
with a clean part of the cloth's surface.

**In order to avoid the formation of rings, clean stains and marks from the
outside towards the middle, and then use a hair-dryer to speed up the drying
process.**

Technical characteristics

Definition	Strato – Stereo acoustic panels
Installation	Suspended and connected
Components	**Aeria MR*** / 100% recycled white AF1 felt / grey or black microporous cloth cladding / Aluzinc® steel frame
Colours	30
Physical properties	
Light reflectance (for colour MR 640 - *Nacre*)	81%
Durability	
Mechanical properties	
Abrasion resistance (EN 12947-, number of rubs)	> 30,000
Fraying	None
Variations in dimensions under normal conditions of temperature and humidity	None
Colour fastness ISO 105-B02 (scale from 1 to 8)	≥ 5
Electrostatic properties (EN 1149-1)	$> 7.10^{10}\,\Omega$
Hydro/Oleophobia AATCC118 and AATCC193 (scale from 1 to 8)	≥ 5
Conditions of normal exposure	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
Mechanical strength of the fastenings (DIN EN 12385-4)	15 kg / fixing point
Health and safety	
Reaction to fire classification	
Europe EN – for complete product	B-s2,d0
United States ASTM	Class A
Environmental characteristics	
Development of micro-organisms	The materials used reduce the proliferation of house dust mites and micro-organisms
HQE® High Quality Environmental standard (standart EN 15804)	AFNOR-certified environmental product declaration
VOC and formaldehyde emissions French health labelling / in accordance with German protocol AgBB	A+ / compliant
Contribution to LEED/BREEAM certification – certified EPD – air emissions – acoustic contribution	4 points
Impact on climate change	22.7 kg CO_2 eq /m²
Proportion of recycled components	≥ 57 %
Cleaning	
Method	Vacuum clean every one to five years, depending on conditions of use** Cover is removable and machine-washable at 30°C, dry flat

Definition	Strato – Stereo air open mesh panels
Installation	Suspended and connected
Components	**Aeria GMR*** / Aluzinc® steel frame
Colours	2 colours

Physical properties	
Air permeability (ISO 9237)	6596 l/m²/s
Air conditioning airflow (in-house method, report available on request)	Pressure loss: about 50% Key factors: distance of fan from mesh panel between 100 and 250 mm and flow perpendicular to mesh
Porosity (in-house method, report available on request)	54 %
Light transmission, colour MR980 (Granit - in-house method, report available on request)	52% for a spotlight located between 50 and 1,600 mm from the panel 55% for a light panel located between 50 and 1,600 mm from the panel
Light transmission, colour MR640 (Nacre - in-house method, report available on request)	52% for a spotlight located between 50 and 1,600 mm from the panel 86% for a light panel located 50 mm from the panel and 65% for a light panel located 1,600 mm from the panel.
Light source and heat	Aeria Grande Maille should not be subjected to sustained temperatures higher than 30°C (86°F) Minimum distances of light sources from the mesh: 50 mm (LED), 100 mm (neon), 200 mm (halogen 75 W)

Durability	
Mechanical properties	
Abrasion resistance (EN 12947-, number of rubs)	> 20,000
Fraying	None
Variations in dimensions under normal conditions of temperature and humidity	None
Colour fastness ISO 105-B02 (scale from 1 to 8)	≥ 5
Electrostatic properties (EN 1149-1)	$> 7.10^{10}\,\Omega$
Hydro/Oleophobia AATCC118 and AATCC193 (scale from 1 to 8)	≥ 5
Conditions of normal exposure	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
Mechanical strength of the fastenings (DIN EN 12385-4)	15 kg / fixing point

Health and safety	
Reaction to fire classification	
Europe EN – for complete product	B-s1,d0
United States ASTM	Class A

Environmental characteristics	
Development of micro-organisms	The materials used reduce the proliferation of house dust mites and micro-organisms
HQE® High Quality Environmental standard (standart EN 15804)	AFNOR-certified environmental product declaration
VOC and formaldehyde emissions French health labelling / in accordance with German protocol AgBB	A+ / compliant
Contribution to LEED/BREEAM certification – certified EPD – air emissions – acoustic contribution	4 points
Impact on climate change	14.2 kg CO_2 eq /m²
Proportion of recycled components	≥ 43 %

Cleaning	
Method	Vacuum clean every one to five years, depending on conditions of use**

* Texaa®'s internationally patented Aeria sound-transparent fabric / ** refer to the cleaning and maintenance sheets

Texaa® is a privately owned company with a staff of fifty-five. Informed by continuous contact with designers and professionals in the building industry, we conceive, manufacture and distribute solutions to enhance the acoustic comfort of the spaces in which people live and work. **Texaa®** products are technically sophisticated, sensitive and hard-wearing. Their hallmark is the textile in which they are clad: **Aeria*** is knitted in our workshop near Bordeaux in a palette of 30 colours. Since 1978, it has been our pride and delight to play our part in developing quality architecture in France, Europe, the US and beyond.

* our sound-transparent textile with an exclusive **Texaa®** patent

Updates
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- - -

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