Texaa®

Specification and data sheets

Breathing ceiling

Strato

January 2018

Regular updates available at texaa.com/documentation

Strato breathing ceiling

Why?
(ceiling = the upper interior surface of a closed space)
Our new **Strato** range offers a number of efficient solutions for dealing with the complex questions posed by ceiling design in buildings today. How may their acoustic comfort be improved? How may room be found to freely position cables and network ducts? How may disparate technical installations be brought into visual harmony without amputating the given volume, and how may such unsightly elements be concealed while still maintaining access to the plenum[1]? etc.
Born from **Texaa®**'s expertise in the field of aerated textiles and acoustic object solutions, **Strato** provides a coherent, innovative system which may be used to build ceilings of varying configurations to suit a wide range of spaces.
Strato is composed of modules which may be fitted together in combination or made to measure to offer effective interior design solutions or enhance the acoustic comfort of any given space.

599 x 1,199 x 55 mm

599 x 2,399 x 55 mm

1,199 x 1,199 x 55 mm

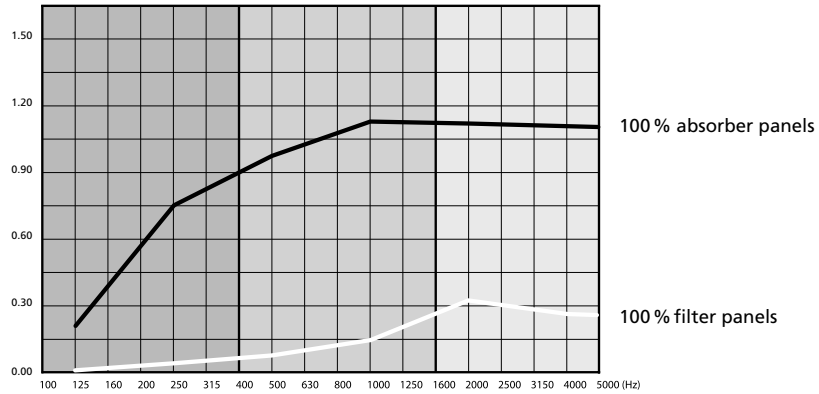
1,199 x 2,399 x 55 mm

1 In building terminology, the plenum refers to the space lying above the ceiling but beneath the next floor.

Acoustic performance

• For 1,199 x 1,199 x 55 mm panels

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



Fréquencies (Hz)	125	250	500	1,000	2,000	4,000			
α_{Sabine} – hanging in a cluster 300 mm from the ceiling							α_w	class	NRC
100 % absorber panels	0.23	0.76	0.97	1.13	1.12	1.11	1	A	1
75 % absorber – 25 % filter panels		estimated absorption coefficient					0.80	B	
50 % absorber – 50 % filter panels		estimated absorption coefficient					0.60	C	
25 % absorber – 75 % filter panels		estimated absorption coefficient					0.40	D	
100 % filter panels	0.01	0.04	0.07	0.15	0.33	0.26	0.15	E	0.15

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 Strato breathing ceiling

Strato floating ceilings are designed from two components used in combination – absorbers and filters.

Absorber panels are composed of:
– an aluzinc steel frame®
– a layer of white AF1 felt
– a grey or black microporous membrane
– a sound transparent fabric cover with Round Knit **Aeria** (MR) on one side

Filter panels are composed of:
– an aluzinc steel frame®
– a sound transparent fabric cover with Large Round Knit **Aeria** (GMR) on one side

Reaction to fire classification for complete product

Europa
Absorber panels: B-s2, d0 – equivalent Class 0
Filter panels: B-s1, d0 – equivalent Class 0

USA
Absorber and filter panels: Class A

Environmental characteristics
HQE : FDES (EN 15804) – Environmental and Health declaration forms certified by AFNOR
LEED / BREEAM:
4 points for
– acoustic contribution
– very low emissions of VOCs (Volatile Organic Compounds) and formaldehyde
– certified Environmental and Health Product Declaration Forms (EN 15804)

Air permeability (ISO 9237)
6596 l/m²/s

Porosity
54%

Performance indicators for Aeria
Hydro-oleophobic ≥ 5 (AATCC118 and and AATCC193)
Antistatic properties: $7\,10^{10}$ Ω (EN1149-1)

Cleaning
Vacuum cleaning, machine washable cover

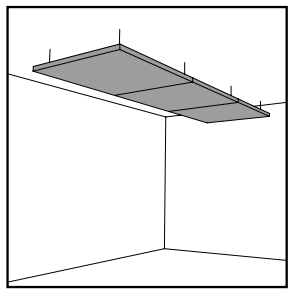
Guarantee for complete product
10 years

Colours of absorber panels
☐ Round Knit **Aeria** (MR) available in a range of 2 colours: Nacre and Gris brun
☐ Option 22 colours

Colours of filter panels
☐ Large Round Knit **Aeria** (GMR) available in a range of 2 colours: Nacre and Gris brun

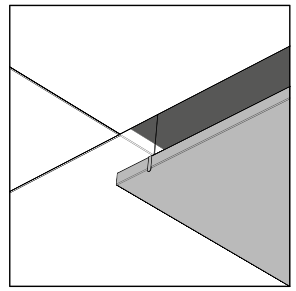
Fitting Method

☐ **Suspended from vertical cables, joined together**
Each **Strato** panel is suspended horizontally from the ceiling by means of 4 galvanized steel vertical cables (diameter 1.8 mm, length 1,000 mm), equipped with threaded end-pieces (M6) and adjustable hooks. The panels are assembled using brackets.
Configuration to be specified in a sketch.

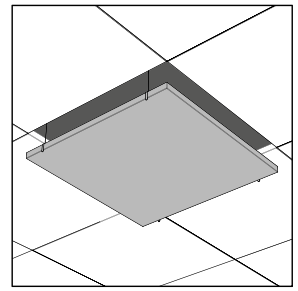


Galvanized steel rawlplug cover (option)

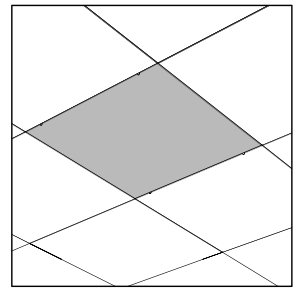
☐ **Option: access hatch**



Opened hatch (detail)

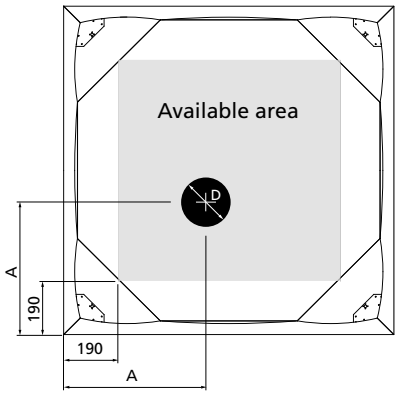


Opened hatch



Closed hatch

☐ **Optional space for integrated light fittings (only for absorber panels)**
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)	α_w
☐	599 x 1,199 x 55 absorber panel	5.5	-
☐	599 x 1,199 x 55 filter panel	3.5	-
☐	599 x 2,399 x 55 absorber panel	9.6	-
☐	599 x 2,399 x 55 filter panel	5.2	-
☐	1,199 x 1,199 x 55 absorber panel	8	1
☐	1,199 x 1,199 x 55 filter panel	4.4	0.15
☐	1,199 x 2,399 x 55 absorber panel	14.4	-
☐	1,199 x 2,399 x 55 filter panel	6.3	-

Production time
3 weeks
+1 additional week for options

Professionals to be consulted
General fitters and carpenters

Cleaning guidelines for Aeria

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

Aeria is treated with a durable water repellent fluoropolymer, so it is usually enough to remove any spillages or dirt by gently dabbing the marked fabric. Never rub the fabric.

If a stain proves harder to remove, please follow the following instructions.

For water-based liquids (tea, coffee, soft drinks, wine, etc.)
If the liquids have penetrated the fabric, use a vacuum cleaner to remove any dust from the stained 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 cloth. If the stain persists, renew 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 colorant-based stains (marker pen, biro, ink etc.)
Dab the stain gently 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.

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

Texaa® is an independent company with a staff of fifty-five, specialised in the manufacturing and distribution of acoustic materials. Our products all comprise a sound-absorbing foam within a layer of **Aeria***, a sound transparent textile available in a range of 22 colours. All our products are designed and manufactured near Bordeaux, and we follow them all the way, from knitting machine to final assembly.

Texaa® has a team of specialist project managers, offering in-depth specialist knowledge of our products, of how they are manufactured and how they may be used in situ. They accompany individual projects, from the design table to the building site.

All **Texaa®** products are highly durable and easy to clean. Our panels and objects may be repaired and returned to use. Their textile covers are removable and machine washable. We are proud to offer an efficient product follow-up service and will, upon request, replace fabric claddings or removable covers which are over 20 years old.

*__Aeria,__ our sound transparent textile with an exclusive **Texaa®** patent.

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