Strato breathing ceiling

Texaa®

The **Strato** breathing ceiling is a result of Texaa's expertise in applying its run-resistant fabric to architecture.

It enables a really architectural approach to designing ceilings. It gives both freedom and the necessary technical characteristics, by combining absorber or breathing panels that are continuous or in clusters, to achieve the sought after look and performance.

The Aeria knit gives the ceiling a warm grain, making it light, robust and easy to install and maintain.

RUN-RESISTANT

WATER REPELLENT AND DUST-PROOF

FIRE-RESISTANT

10-YEAR GUARANTEE

The Texaa lobby in Gradignan near Bordeaux.

The Strato breathing ceiling consists of **two complementary components** that can be combined in varying proportions to suit designers' needs and ambitions.

Absorber panels are designed to correct sound reverberation by applying the principles of optimal effectiveness developed by Texaa wth its Stereo panels.

Breathing panels, covered with an Aeria large knit fabric, partially mask the technical services space above it without hiding it completely. They filter the light from a source positioned behind, allow conditioned air to circulate and present no barrier for the radiation of heat in the building. They lose transparency as you move away from underneath them.

First Strato prototype in the Texaa workshop in Gradignan near Bordeaux.

Each panel is supported by a rust-protected **metallic frame** that is suspended from the roof on ordinary vertical cables.

With this system that connects the panels ensuring they are perfectly flat, it is easy to build continuous clusters or elegantly suspended islands.

Strato is **totally free of the walls** and has none of the usual constraints of a stretch-fitted ceiling or modular tiles mounted on a grid, because it does not have to be installed from wall to wall.

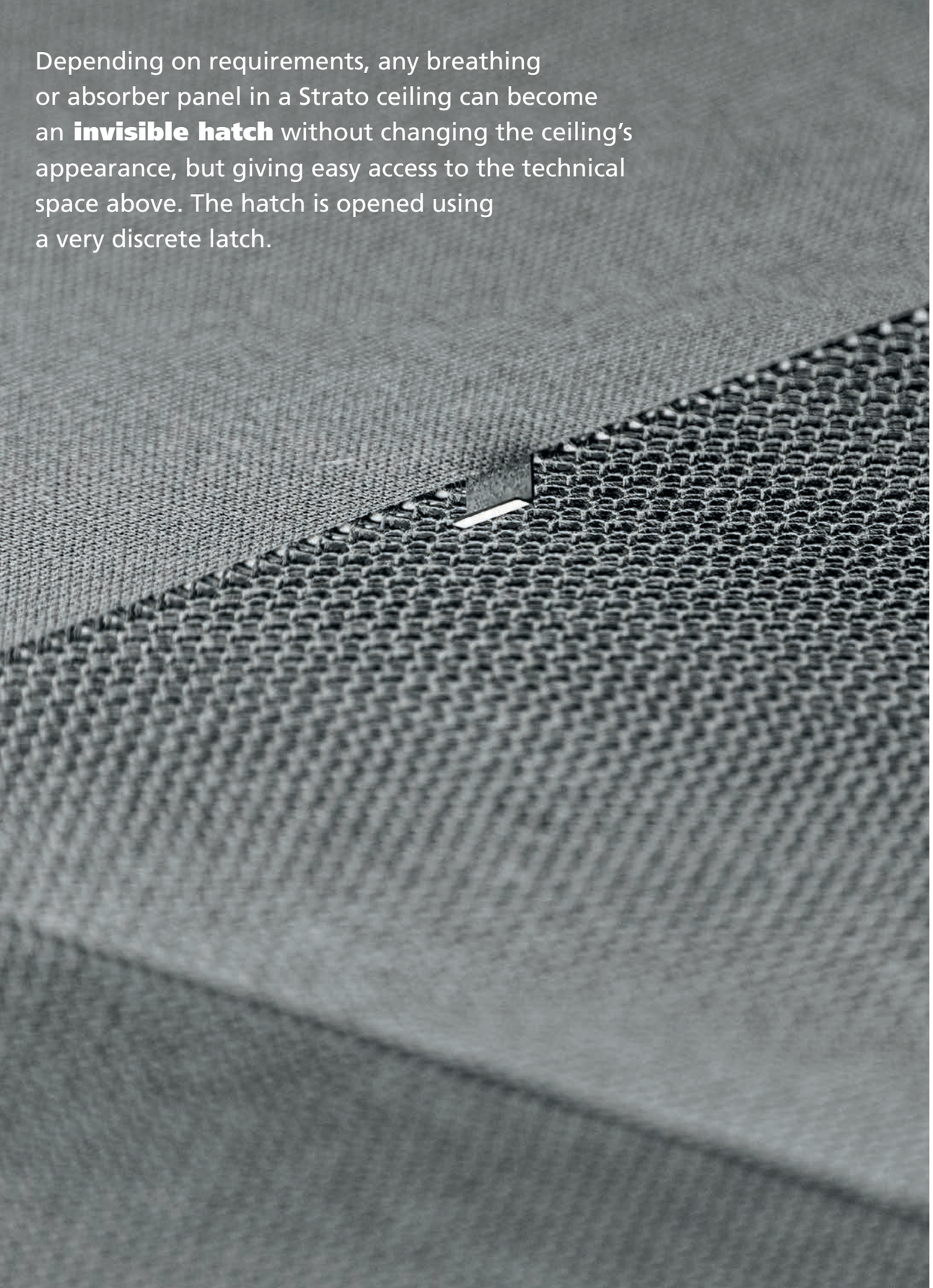
With Strato, architects have much more freedom to handle the complex constraints involved in designing ceilings for spaces.

Reception hall of the Bernadette Chirac Mother and Child Building of Troyes Hospital. Architects: Hérard & Da Costa, 2017.

Strato is also a **technical ceiling** offering many ways to accommodate the building's technical functions – lighting, air circulation, sound, video, smoke detectors, fire alarms, etc. – and to make them visible or invisible.

Open space offices on Bedford Road in London.
Architects: EERO Design and Build Ltd., 2017.

Depending on requirements, any breathing or absorber panel in a Strato ceiling can become an **invisible hatch** without changing the ceiling's appearance, but giving easy access to the technical space above. The hatch is opened using a very discrete latch.



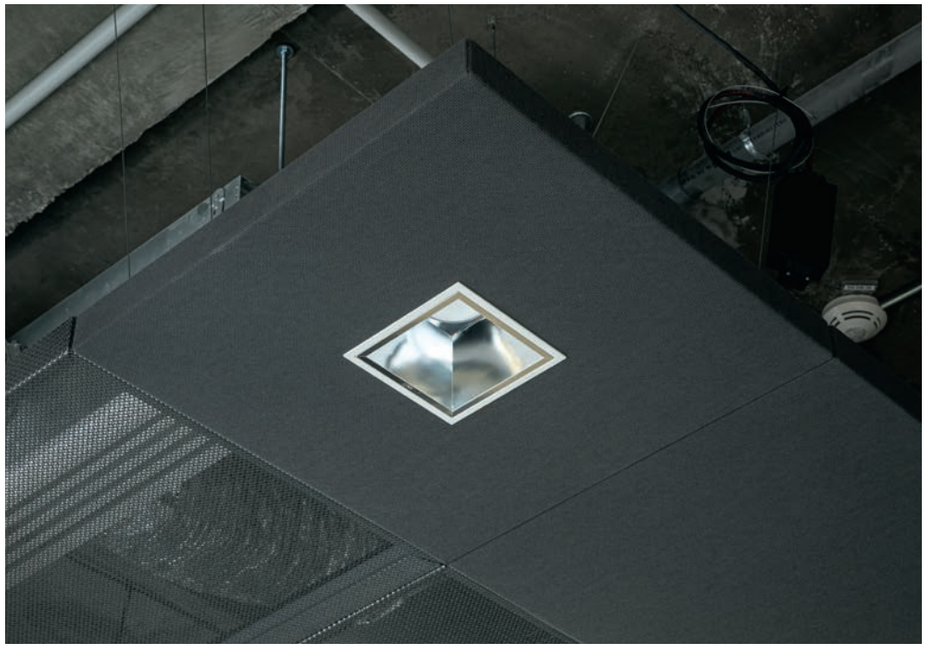
Sauternes building of Sciences Po Agro institute in Gradignan near Bordeaux. Architect: Jean Philippe Gras, 2019.

ITV Studios in London. MCM Architecture, 2018.

Installation in islands.

The Black Tower Company, head office of the MaPeinturePRO.com website in Montélimar, 2019.

Technicolor Animation Productions in Paris. Studios Architecture, 2019.



Optional recess in an absorber panel, in this case for a light.

Technicolor Animation Productions in Paris. Studios Architecture, 2019.

Ode - Conservatoire de Vanves in the south-western Paris suburbs. Anne Houel of Babin+Renaud architects, 2016.

Château Fieuzal in Léognan near Bordeaux, 2012.

Hotel Marriott restaurant in Lyons. Architects: Albert Constantin and Marie Courdouan, 2015.

Characteristics of the Strato ceiling

The Strato ceiling is created by combining two components: absorber panels and breathing panels

ABSORBER PANELS

Composition
- Metal frame made of rust-proof steel
- White AF1 felt
- Grey or black microporous cloth cladding
- Removable cover made of sound-transparent, Maille Ronde (MR) Aeria fabric

Acoustic performance
Absorption coefficient
α_w = 1, NRC = 1, class A

European reaction to fire classification
Complete product B-s2, d0

Available option
Recesses for integrated light fittings, loudspeakers, etc.

BREATHING PANELS

Composition
- Metal frame made of rust-proof steel
- Removable cover made of sound-transparent, Grande Maille Ronde (GMR) Aeria fabric

Acoustic performance
Absorption coefficient
α_w = 0.15, NRC = 0.15, class E

European reaction to fire classification
Complete product B-s1, d0

Available option
Breathing panels suspended singly from 4 cables

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.

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.

Ventilation
- Air permeability (ISO 9237): 6,596 l/m²/s
- Porosity: 54%

DURABILITY OF THE AERIA FABRIC COVER
- Run-resistant
- 330 g/m² (absorber panel), 190 g/m² (breathing panel)
- Protection against soiling:
  - Hydro/Oleophobic ≥ 5 (AATCC118 and AATCC193)
  - Electrostatic properties 7 x 10^{10} Ω (EN 1149-1)

CLEANING
Vacuum cleaning, may be taken apart and refitted, removable covers, (absorber panels only), machine-washable.

ENVIRONMENTAL CHARACTERISTICS
- Strato ceiling meets the requirements specified in the HQE, LEED and BREEAM (4 points) reference documents and methods, based on:
  - their acoustic contribution
  - the provision of certified EPDs (EN 15804)
  - their very low emissions of VOC and formaldehyde
- All Texaa products qualify for French “A+” health labelling and are classed as “conforming” after assessment using the German AgBB protocol

GUARANTEE
10 years

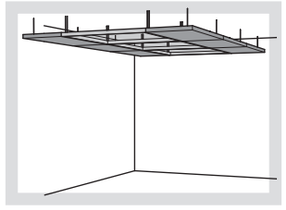
COMMON OPTIONS
- Access hatch
- Variable dimensions: widths from 300 to 1,200 mm and lengths from 600 to 2,400 mm. Please contact us for larger sizes.

FITTING
Each panel is suspended from the ceiling by means of galvanized steel vertical cables (diameter 1.5 mm, length 1,000 mm), each equipped with a threaded end-piece (M6) and an adjustable latch-eye hook. The panels are assembled using linking brackets.

MORE INFORMATION
Specification and full technical characteristics provided in the Strato technical data sheet available from **www.texaa.co.uk/documentation**

INSTALLATION SYSTEMS

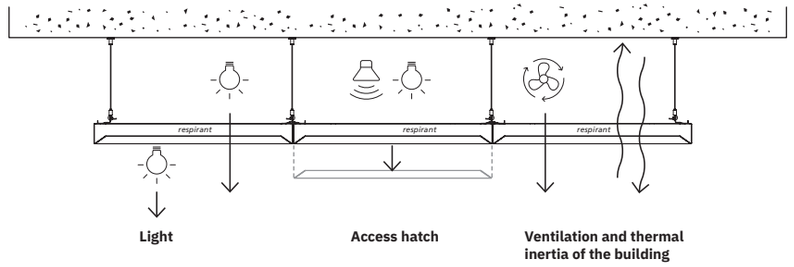
Suspended on cables



Suspended from vertical cables and connected together

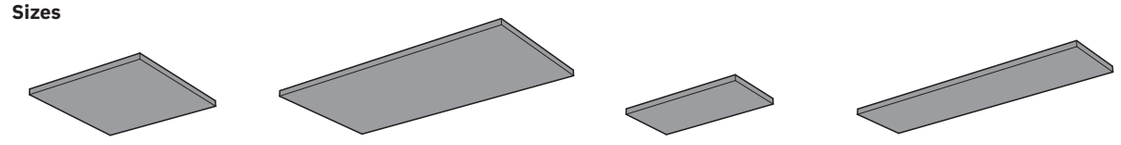
INTEGRATION AND ACCESS

Various services may be concealed above the ceiling without impairing their effectiveness. As required, any panel (breathing or absorber) can be used as a hatch, offering easy access to the technical services space. These invisible access hatches fit seamlessly into the overall design of the ceiling.



ABSORBER PANELS

Sizes

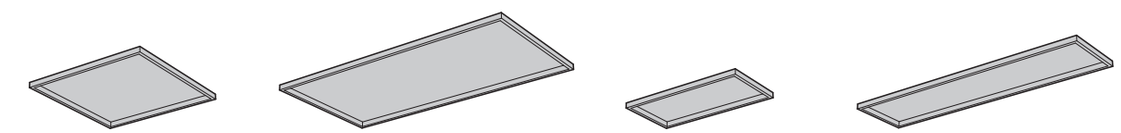


1,199 x 1,199 x 55 mm | 1,199 x 2,399 x 55 mm | 599 x 1,199 x 55 mm | 599 x 2,399 x 55 mm

COLOURS
Select from the 30 colours in the Maille Ronde (MR) palette, page 38. Special colours available on request.

BREATHING PANELS

Sizes



1,199 x 1,199 x 55 mm | 1,199 x 2,399 x 55 mm | 599 x 1,199 x 55 mm | 599 x 2,399 x 55 mm

COLOURS
Select from the 2 colours in the Grande Maille Ronde (GMR) palette, page 36. Special colours available on request.

Conceive and build your solutions with texaa.com

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