

**Texaa<sup>®</sup>**

Specification and data sheets

# **Stereo Air**

open mesh panels

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### **Production time**

3 weeks

For options: please contact us

### **Professionals to be consulted for fitting**

General fitters and carpenters

# Stereo Air open mesh panels

Stereo Air open mesh panels are covered with the Aeria Grande Maille Ronde fabric. This eye-catching net was especially designed by Texaa by opening out the stitch of its usual fabric to make it more transparent as the observer progressively gets closer to it.

It is an architectural feature that enables designers to play with certain technical parameters: to create a visual filter or to scatter a light source, while allowing sound and air to circulate freely, as well as heat distribution.

# Descriptif type

**Stereo Air Texaa®** panels consist of:

- an Aluzinc® steel frame, treated to improve its resistance to corrosion
- a cover made of sound transparent, **Aeria Grande Maille Ronde (GMR) fabric (190 g/m<sup>2</sup>)** which provides a run-resistant, antistatic and dirt-repellent covering on five faces

## Durability of the fabric cover

Performance of **Aeria 190 g/m<sup>2</sup> run-resistant fabric**

Protection against soiling:

**Hydro/Oleophobic**  $\geq 5$  (AATCC118 and AATCC193)

**Electrostatic properties**  $7.10^{10}\Omega$  (EN 1149-1)

## Acoustic performance

Absorption coefficient:

$\alpha_w = 0.15$ , NRC = 0.15, class E

## Reaction to fire classification

- European classification :  
Complete product: B-s1, d0
- United States – ASTM Class A

## Environnement

HQE: EPD (EN 15804) –

Environmental and Health Product Declarations certified by AFNOR

LEED / BREEAM:

4 points for  $\left\{ \begin{array}{l} - \text{acoustic contribution} \\ - \text{certified EPD (EN 15804)} \\ - \text{very low VOC (Volatile Organic Compounds) and formaldehyde emissions.} \end{array} \right.$

Impact on climate change: 14.2 kg CO<sub>2</sub> eq /m<sup>2</sup>

Proportion of recycled components:  $\geq 43\%$

## Cleaning

Vacuum cleaning

## Garantee

10 years

## Colours

Select from the 2 colours in the palette (GMR)

## Options

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

# Sizes



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

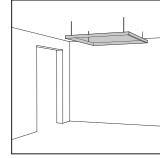
## Dimensions / weight / acoustic performance [specify]

Dimensions (mm)	Weight (kg)	Absorption coefficient $\alpha_w$
<input type="checkbox"/> Open mesh panels 599 x 1,199 x 55	3.5	-
<input type="checkbox"/> Open mesh panels 599 x 2,399 x 55	5.2	-
<input type="checkbox"/> Open mesh panels 1,199 x 1,199 x 55	4.4	0.15
<input type="checkbox"/> Open mesh panels 1,199 x 2,399 x 55	6.3	-

# Fitting methods

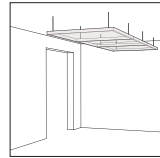
## Suspended under horizontal cables

Each panel is suspended from the ceiling on vertical cables made of galvanised steel (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.



## Suspended on vertical cables and connected together (see Strato)

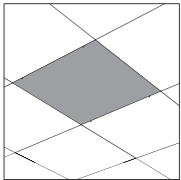
Each Stereo Air open mesh panel is suspended from the ceiling on 4 vertical galvanised steel cables (diameter 1 mm, length 1,000 mm), each with a cylindrical cover and an adjustable latch-eye hook. The panels are connected together with linking brackets.



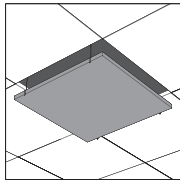
## Specific sizes on request

Width from 300 to 1,200 mm and length from 600 to 2,400 mm. Please contact us for larger sizes.

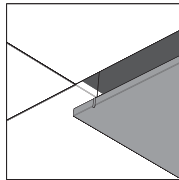
## An optional access hatch is available



Closed hatch



Open hatch



Open hatch (detail)

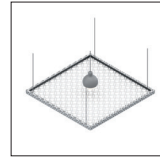
# Light transmission

## Above

For a spotlight located between 50 and 1,600 mm above the panel.

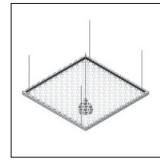
**Light transmission:**

GMR640 (Nacre) and GMR980 (Granit) 52%



## Through

An electric cable runs through the open mesh to enable the light to function below the panel with no change to its properties.



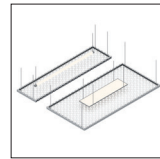
## Above

For a light panel located between 50 and 1,600 mm above the panel.

**Light transmission:**

For the colour GMR640 (Nacre) ranges from 65% (when the spotlight is 50 mm above) to 86% (when it is 1,600 mm above)

For the colour GMR980 (Granit) is 55%



# 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 gentle 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	Stereo Air open mesh panels
Fitting	Suspended
Components	Aeria GMR* / Aluzinc® steel frame
Colours	2 colours
Physical properties	
Air permeability (ISO 9237)	6,596 l/m <sup>2</sup> /s
Impact on air conditioning (in-house assessment protocol, report available on request)	Flow rate loss: 50% approx. Key factors: ventilator positioned perpendicular to the GMR fabric at a distance between 100 to 250 mm
Porosity (in-house assessment protocol, report available on request)	54%
Light transmission, Granit colour (in-house assessment protocol, 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, Nacre colour: (in-house assessment protocol, 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 sources and heat limits	On-going temperature around the Aeria GMR fabric: < 30°C Minimum distances between light sources and fabric: LED 50 mm; neon 100 mm; 75-watt halogen 200 mm
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 <sup>10</sup> Ω
Hydro/Oleophobia AATCC 118 and AATCC 193 (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

<b>Environmental characteristics</b>	
<b>Development of micro-organisms</b>	The materials used reduce the proliferation of house dust mites and micro-organisms
<b>HQE® High Quality Environmental standard</b> (standart EN 15804)	AFNOR-certified environmental product declaration
<b>VOC and formaldehyde emissions</b> French health labelling / in accordance with German protocol AgBB	A+ / compliant
<b>Contribution to LEED/BREEAM certification</b> – certified EPD – air emissions – acoustic contribution	4 points
<b>Impact on climate change</b>	14.2 kg CO <sub>2</sub> eq /m <sup>2</sup>
<b>Proportion of recycled components</b>	≥ 43 %
<b>Cleaning</b>	
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 at [www.texaa.co.uk](http://www.texaa.co.uk)

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**Texaa®**  
textile, acoustics, architecture

**United Kingdom**  
Becket House  
1 Lambeth Palace Road  
London SE1 7EU

- - -  
+44 (0) 20 7092 3435  
contact@texaa.co.uk  
[www.texaa.co.uk](http://www.texaa.co.uk)

**USA**  
2825 East Cottonwood Parkway  
Suite 500 Salt Lake City,  
UT 84121

- - -  
salesusa@texaa.com  
[www.texaa.com](http://www.texaa.com)