

Texaa®

Specification and data sheets

Stereo Air

open mesh panels




FABRIC KNITTED IN FRANCE

SAIR2512EN

Stereo Air open mesh panels	p. 3
Specification	p. 4
Sizes	p. 5
Fitting methods	p. 6
Lighting	p. 7
Technical characteristics	p. 8

Production lead 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 specially 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.

Thanks to this architectural feature, designers can play with different technical parameters to create a visual filter or scatter a light source, while allowing sound, air and heat radiation from the building to pass through.

Specification

Stereo Air Texaa® panels consist of:

- a rust-proof steel frame
- a cover made of sound-transparent Aeria Grande Maille Ronde (GMR) fabric (190 g/m²) which provides a run-resistant, antistatic covering on five faces

Durability of the fabric cover

Performance of Aeria 190 g/m² run-resistant fabric

Protection against soiling

Antistatic properties 1.10¹² Ω/m² (ASTM D257)

Acoustic performance

Absorption coefficient

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

Reaction to fire classification

European classification: Complete product: B-s1, d0

USA – ASTM E84: Class A

Environment

- Indoor air quality (ISO 16000): A+, AgBB compliant, Indoor Air Comfort Gold
- Contribution to environmental labels:
 - LEED: 9 to 16 points
 - BREEAM: 10.5 credits
 - DGNB: 28.2 to 30.8%
 - HQE: 7 targets
 - WELL: 14 credits
- Impact on climate change: 14.2 kg CO₂ eq/m² (EPD available on our website)
- Recycled content ≥ 43%

Cleaning

Vacuum cleaning

Garantee

10 years

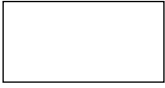
Colours

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.
- 3000 mm cable option

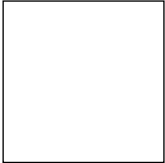
Sizes



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

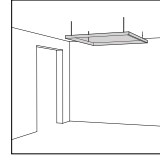
Dimensions / weight / acoustic performance [specify]

Dimensions (mm)	Weight (kg)	Absorption coefficient α_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

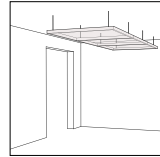
Suspended under horizontal cables

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)

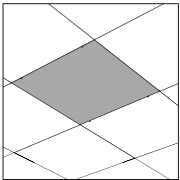
Each Stereo Air open mesh panel is suspended from the ceiling on 4 vertical galvanised steel cables (diameter 1 mm, length 1,000 mm), each with a cylindrical cover and an adjustable latch-eye hook. The panels are connected together with linking brackets.



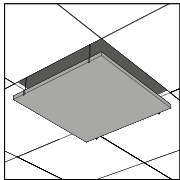
Specific sizes on request

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

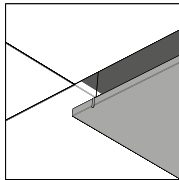
An optional access hatch is available



Closed hatch



Open hatch



Open hatch (detail)

Lighting

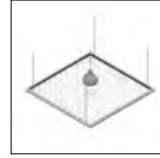
Above

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

Light transmission:

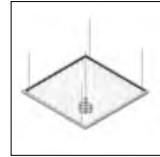
Colour Gris Nacré GMR003: 54%

Colour Gris Anthracite GMR006: 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.



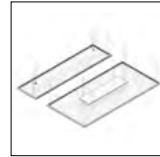
Above

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

Light transmission:

Colour Gris Nacré GMR003: between 67% (1600 mm) and 91% (50 mm)

Colour Gris Anthracite GMR006: 55%



Technical characteristics

Definition	Stereo Air open mesh panels
Fitting	Suspended, separated, connected (see Strato)
Components	Aeria* GMR / a rust-proof steel frame
Colours	2 colours
Physical properties	
Air permeability (ISO 9237)	6,596 l/m ² /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, Colour <i>Gris Anthracite</i> GMR006 (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, Colour <i>Gris Nacré</i> GMR003 (in-house assessment protocol, report available on request)	54% for a spotlight located between 50 and 1,600 mm from the panel 91% 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
Antistatic properties (ASTM D257)	1.10 ¹² Ω/m ²
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 (EN 12385-4)	15 kg / fixing point
Health and safety	
Reaction to fire classification	
Europe NF EN 13501-1	Complete product: B-s1, d0
USA ASTM E84	Class A
Development of micro-organisms	The materials used reduce the proliferation of house dust mites and micro-organisms

Environmental characteristics	
VOC and formaldehyde emissions (ISO 16000) French health labelling & in accordance with German protocol AgBB / Indoor Air Comfort label	A+ / Compliant / Gold
Contribution to environmental labels	LEED: 9 to 16 points BREEAM: 10.5 credits DGNB: 28.2 to 30.8% HQE: 7 targets WELL: 14 credits
Impact on climate change (EN 15804) (EPD available on our website)	14.2 kg CO ₂ eq /m ²
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 50 employees. Informed by continuous contact with architects and professionals in the building industry, we design, 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, USA and beyond.

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

**Updates at
www.texaa.com**

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.com