

Texaa®

Specification and data sheets

Abso Cushions

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Production time

3 weeks

**Professionals to be
consulted for fitting**

General fitters

Ceiling-hung Abso Cushions

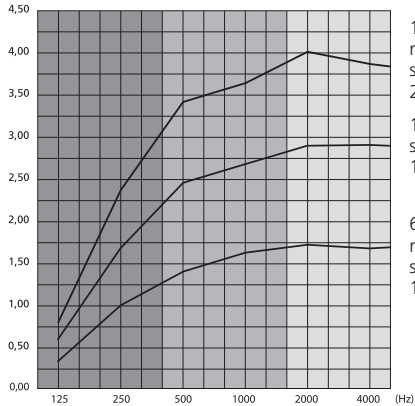
Consisting simply of sound-absorbing foam with an **Aeria** fabric cover stretched over a metal hoop, **Abso** Cushions are now 95 mm thick to ensure maximum acoustic efficacy. Their shapes and sizes have been specifically selected to produce pleasingly balanced grouped arrangements. They provide complete freedom to design features in large volumes.

Unlike Stereo panels, **Abso** Cushions may not be positioned in groups to form uninterrupted acoustic clusters.

Acoustic performance

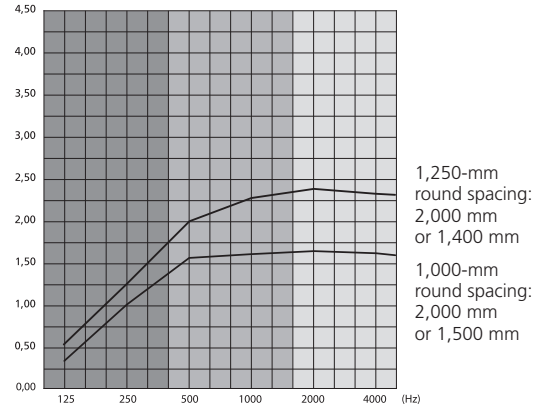
1,250-mm square and 625- & 1,800-mm rectangular Cushions

Equivalent absorption area of an object A (m²) –



1,000 & 1,250 round Cushions

Equivalent absorption area of an object A (m²) –



| Frequencies (Hz) | 125 | 250 | 500 | 1,000 | 2,000 | 4,000 |
|----------------------|------|------|------|-------|-------|-------|
| 1,250-mm square | 0.65 | 1.69 | 2.48 | 2.68 | 2.8 | 2.83 |
| 625-mm rectangular | 0.3 | 1.07 | 1.41 | 1.63 | 1.73 | 1.67 |
| 1,800-mm rectangular | 0.85 | 2.33 | 3.45 | 3.62 | 4.07 | 3.87 |
| 1,000-mm round | 0.32 | 1.07 | 1.52 | 1.57 | 1.66 | 1.59 |
| 1,250-mm round | 0.55 | 1.26 | 2.04 | 2.28 | 2.38 | 2.32 |

Test reports available on request – Standard NF EN 20354 / ISO 354

Specification

Acoustic absorption is enhanced by **Texaa® Abso** Cushions available in a range of shapes:

- square with rounded corners
- rectangular with rounded corners
- round

These Cushions consist of grey AP cellular foam, a powder-coated steel hoop and a removable and machine-washable cover made of sound-transparent **Aeria** fabric.

Durability of the fabric cover

Performance of **run-resistant 330 g/m² Aeria**

Protection against soiling:

Hydro/Oleophobic ≥ 5 (AATCC118 and AATCC193)

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

Acoustic performance

Equivalent absorption area of an object A (m²) at mid-range frequencies:

1,250-mm square: 2.63 m² / 625-mm rectangular: 1.51 m² / 1,800-mm rectangular: 3.65 m²

1,000-mm round: 1.55 m² / 1,250-mm round: 2.18 m²

Reaction to fire classification

– **European classification** :

B-s1, d0 for the Aeria fabric cover

C-s2, d0 for the sound absorber

– **United States - ASTM**

Class A

Environmental characteristics

– **VOC and formaldehyde emissions** (ISO 16000)

– **Abso** accessories qualify for French “A+” health labelling and are classed as “conforming” after assessment using the German AgBB protocol

– **LEED / BREAM**: 2 points for

- **Very low VOC** (Volatile Organic Compounds) and formaldehyde emissions

- Acoustic contribution

– **Impact on climate change**: 16.7 kg CO₂ eq /m²

– **Proportion of recycled components**: ≥ 22 %

Cleaning

Vacuum cleaning, may be removed and refitted

Guarantee

10 years

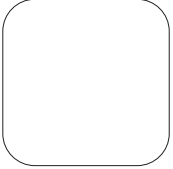
Colours

Select from the 30 colours in the round knit (MR) palette available for the Abso range.

Special colours available on request.

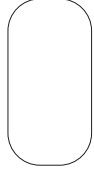
Sizes

Square



1,250 x 1,250 x 95 mm

Rectangular

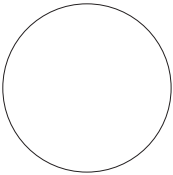


625 x 1,250 x 95 mm

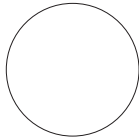


1,800 x 1,250 x 95 mm

Round



1,250 x 95 mm



1,000 x 95 mm

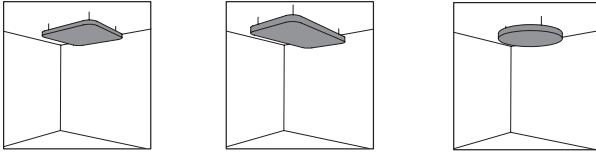
Dimensions / weight / acoustic performance [specify]

| Cushions | Dimensions (mm) | Weight (kg) | Equivalent absorption area A (m ²) at mid-range frequencies |
|------------------------|--------------------|-------------|----------------------------------------------------------------------------|
| □ 1,250-mm square | 1,250 x 1,250 x 95 | 4.2 | 2.63 |
| □ 625-mm rectangular | 625 x 1,250 x 95 | 2.7 | 1.51 |
| □ 1,800-mm rectangular | 1,800 x 1,250 x 95 | 5.9 | 3.65 |
| □ 1,000-mm round | 1,000 x 95 | 2.5 | 1.55 |
| □ 1,250-mm round | 1,250 x 95 | 3.2 | 2.18 |

Fitting methods

□ Suspended separately using vertical cables

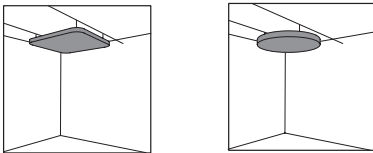
Each **Abso** Cushion is suspended horizontally from the ceiling by means of 4 vertical cables (3 cables for 1,000 and 1,250 round Cushions) made of galvanised steel (diameter 1 mm, length 1,000 mm) fitted with a small cylindrical cover and an adjustable eye hook with a latch.



□ Suspended under horizontal cables

Each **Abso** Cushion is suspended from two horizontal cables (not supplied) by means of 4 vertical cables (3 cables for 1,000 and 1,250 round Cushions) made of galvanised steel (diameter 1 mm, length 1,000 mm) fitted with a stainless steel cruciform cable clamp and an adjustable eye hook with a latch.

The cross-shaped cable clamp fits horizontal cables 2 to 6 mm in diameter.



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 | Abso |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Fitting | Ceiling-hung |
| Components | Aeria* / grey AP foam |
| Colours | 30 colours |
| Physical properties | |
| Light reflectance (for Nacre (Pearly white) colour, MR 640) | 81% |
| Durability | |
| Technical characteristics | |
| – Abrasion resistance (NF EN 12947-2, number of rubs) | > 30,000 |
| – Fraying | none |
| – Variations in dimensions under normal conditions of temperature and humidity | ±1 % |
| – Colour fastness ISO 105-B02 (scale from 1 to 8) | ≥ 5 |
| – Electrostatic properties (EN 1149-1) | 7.10 ¹⁰ Ω |
| – Hydro/Oleophobic 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 | 15 kg / fixing point |
| Health and safety | |
| Reaction to fire classification | |
| | - |
| – European classification | B-s1, d0 for the Aeria fabric cover C-s2, d0 for the sound absorber |
| – United States ASTM | Class A |
| Environmental standards | |
| Development of micro-organisms | The materials used reduce the proliferation of house dust mites and micro-organisms |
| HQE® High Quality Environmental standard (standard EN 15804) | - |
| VOC and formaldehyde emissions (ISO 16000) French health labelling / in accordance with German protocol AgBB | A+ / compliant |
| Contribution to LEED/BREEAM certification | |
| – air emissions | 2 points |
| – acoustic contribution | |
| Impact on climate change | 16.7 kg CO ₂ eq /m ² |
| Proportion of recycled components | ≥ 22 % |
| 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. |

* 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

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