

**Texaa®**

Specification and data sheets

# **Velio DB sound-reducing acoustic curtains**

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#### **Production time**

5 weeks

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

Upholsterers and joiner /fitters

# Velio DB sound-reducing acoustic curtains

**Velio** DB sound-reducing acoustic curtains are made up of two lengths of sound-absorbing felt wadding within an outer envelope of **Aeria\*** fabric and a core of six sound-damping layers.

They may be joined together using the zips inserted in their side seams, to fit a range of dimensions.

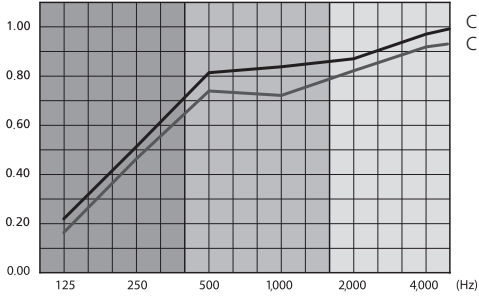
They are used to partition rooms or define areas, while contributing to the reduction of sound transmission from one area to another.

**Texaa** Velio DB sound-reducing acoustic curtains prevent light from passing, and soften the sound ambience of a hall or meeting room with their sound-absorbing properties in addition to their sound-damping qualities.

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

# Acoustic performance

$\alpha_{\text{Sabine}}$



Curtain with fullness of 2 i.e. moderately pleated  
Curtain with fullness of 1.5 i.e. slightly pleated

	$\alpha_w$	Class	NRC	Frequencies (Hz)						
				125	250	500	1,000	2,000	4,000	
Velio DB sound-reducing acoustic curtain										
Fullness 1.5	0.70 (H)	C	0.70	$\alpha_{\text{Sabine}}$	0.18	0.48	0.74	0.72	0.82	0.91
Fullness 2	0.75 (H)	C	0.75	$\alpha_{\text{Sabine}}$	0.21	0.51	0.81	0.83	0.88	0.97

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

## Weighted sound reduction index

$R_w(C, C_{tr}) = 10 (0; -2) \text{ dB}$

Standard NF EN ISO 717-1

# Specification

Sound-reduction is provided by **Texaa Velio DB** sound-reducing acoustic curtains. They are highly flame-resistant and clad on both sides with run-resistant, antistatic and dirt-repellent **Aeria** fabric, in combination with two thicknesses of 3-mm thick sound-absorbing black felt wadding and a core of six sound-damping layers. Each curtain is hemmed at the bottom and may be joined to others using zips inserted in their side seams, matching the colour of the fabric chosen.

## Characteristics

**Sound absorption coefficient**  $\alpha_w = 0.70$  (H) for a sound-reducing acoustic curtains hanging 100 mm away from the curtained surface, with a fullness of 1.5 i.e. slightly pleated

**Sound absorption coefficient**  $\alpha_w = 0.75$  (H) for a sound-reducing acoustic curtains hanging 100 mm away from the curtained surface, with a fullness of 2 i.e. moderately pleated

**Weight:** 1.650 kg / m<sup>2</sup> (curtain with no pleating)

**Maximum height:** 3.5 m (please consult us for greater heights).

**Stretching prior to stabilisation:** approximately 1%

**Weighted sound reduction index:**  $R_w(C, C_{tr}) = 10$  (0; -2) dB

## Durability of the fabric cover

Performance of **Aeria 330 g/m<sup>2</sup> run-resistant fabric**

Protection against soiling:

**Hydro/oleo-phobic**  $\geq 5$  (AATCC118 and AATCC193)

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

## European reaction to fire classification

B-s1,d0

## Environmental characteristics

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

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

– **LEED / BREEAM:** 2 points for

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

- Acoustic contribution

## Cleaning

Vacuum cleaning, may be removed and refitted

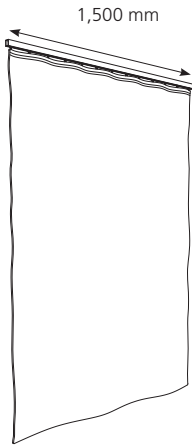
## Guarantee

**10 years**

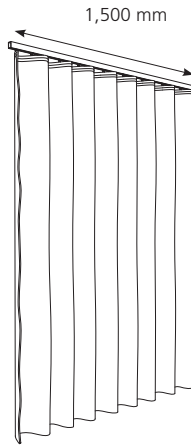
## Colours

Select from the 30 colours in the palette. Special colours available on request.

# Sizes

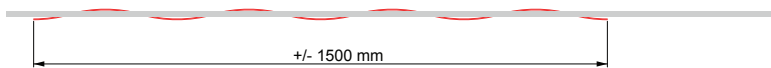


Curtain width 1,500 mm – Fullness of 1



Curtain width 3,000 mm – Fullness of 2

“Fullness” expresses the effect of pleating on a curtain. The greater the fullness, the more pleating is created. Fullness 1 corresponds to a curtain with no pleating. For example, a curtain which is 3 m wide fitted to a hanging rail which is 1.5 m long, will have a fullness of 2. The curtain’s fullness determines the level of sound absorption provided.



# Fitting methods

## Hanging rail, custom-made lengths available

The rail is equipped with sliders, selected to accommodate the weight of the curtains. These sliders make it very easy to open and close the curtains by hand.

- \_\_ x **Texaa**® DB sound-reducing acoustic curtains, height \_\_ [specify], width with no pleating 1,500 mm, fitted with Rufflette tape and hooks
- \_\_ x rail(s) equipped with sliders, brackets every 500 mm, length \_\_ mm

# 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 gently 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	Velio DB sound-reducing acoustic curtains
<b>Fitting</b>	hanging
<b>Components</b>	<b>Aeria*</b> round knit / black wadding / 2 x 3 mm + 6 layers
<b>Colours</b>	<b>Aeria*</b> round knit / 30 colours
<b>Physical properties</b>	
– Weight	1.650 kg / m <sup>2</sup> (curtain with no pleating)
– Total thickness / overall size	-
– Width	1,500 mm +10 / -10
– Length	maximum height: 3.5 m (Consult us for greater heights)
– Formability (length or width)	-
– Light reflectance (for Nacre colour, MR 640)	81 %
<b>Durability</b>	
<b>Mechanical properties</b>	
– Abrasion resistance (EN 12947-2, number of rubs)	> 30,000
– Fraying	none
– Variations in dimensions (under normal conditions of temperature and relative humidity)	< 1,0 %
– 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
<b>Health and safety</b>	
<b>Reaction to fire classification</b>	
– Europe	B-s1,d0
<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> (standard EN 15804)	-
<b>VOC and formaldehyde emissions</b> (ISO 16000) French health labelling / in accordance with German protocol AgBB	A+ / compliant
<b>Contribution to LEED/BREEAM certification</b>	
– air emissions	2 points
– acoustic contribution	
<b>Cleaning</b>	
Method	vacuum clean every one to five years, depending on conditions of use** removable

\* 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 and three stitch sizes. 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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