

Texaa®

Specification and data sheets

Velio DB sound-reducing Acoustic curtains




FABRIC KNITTED IN FRANCE

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Production lead 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.

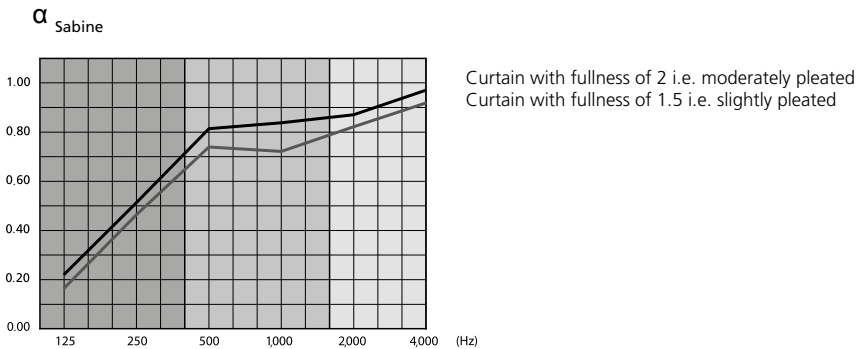
They may be joined together using the zips inserted in their side seams, to fit a range of dimensions.

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



	α_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	α_{Sabine}	0.18	0.48	0.74	0.72	0.82	0.91
Fullness 2	0.75 (H)	C	0.75	α_{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 and antistatic 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 / m² (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/m² run-resistant fabric

Protection against soiling

Antistatic properties $3 \cdot 10^7 \Omega$ (ASTM D257)

European reaction to fire classification

B-s1, d0

Environnemental characteristics

- Indoor air quality (ISO 16000): A+, AgBB compliant, Indoor Air Comfort Gold
- Contribution to environmental labels:
 - LEED: 7 to 9 points
 - BREEAM: 10 credits
 - DGNB: 22.4 to 26%
 - HQE: 6 targets
 - WELL: 15 credits
- Proportion of recycled components $\geq 15\%$

Cleaning

Vacuum cleaning, may be removed and refitted

Guarantee

10 years

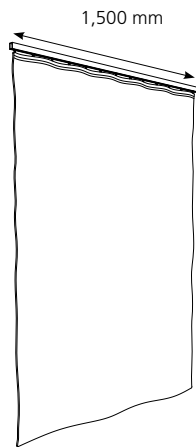
Colours

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

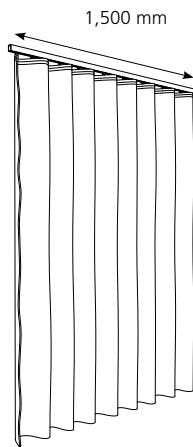
Available options

Curtain rail (2-year guarantee)
Two-tone curtain

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

Technical characteristics

Definition	Velio DB sound-reducing acoustic curtains
Fitting	hanging
Components	Aeria* round knit / black wadding / 2 x 3 mm + 6 layers
Colours	30 colours
Physical properties	
– Weight	1.650 kg / m ² (curtain with no pleating)
– Width	1,500 mm +10 / -10
– Length	maximum height: 3.5 m (Consult us for greater heights)
– Light reflectance (colour Gris Nacré MR003)	81 %
Durability	
Mechanical properties	
– 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
– Antistatic properties (ASTM D257)	3.10 ⁷ 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
Health and safety	
Reaction to fire classification	
–Europe NF EN 13501-1	Complete product B-s1,d0
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+ / Conforme / Gold
Contribution to environmental labels	LEED: 7 to 9 points BREEAM: 10 credits DGNB: 22.4 to 26% HQE: 6 targets WELL: 15 credits
Proportion of recycled components	15 %
Cleaning	
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 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

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