
Vibrasto Acoustic Curtains
Texaa®

As part of the celebrations for the 30th anniversary of the Frac Aquitaine in 2013, designer and architect Olivier Vadrot designed an exhibition called *Coulisses (In the Wings)*. **Texaa**® worked hand in hand with the artist to create acoustic curtains as part of the experiential design intended for visitors.[1]

Our acoustic curtains are now available to all and may be used to enhance acoustic comfort in a wide variety of architectural situations. Their relative stiffness, guaranteed by the use of **Aeria***, is matched only by their durability.

*__Aeria__, our sound transparent fabric with an exclusive **Texaa**® patent.
Non-fraying, extremely fire resistant, antistatic and dirt repellent.
Available in a range of 22 colours.

1. For further information concerning the exhibition, see "Acoustic Curtains for the 30th Anniversary of the Frac / Collection Aquitaine" in *Review #1*, **Texaa**®, November 2013.

Vibrasto acoustic curtains suspended from a curved hanging rail
Agence d'architecture, co-working Pentola, Brest

Vibrasto acoustic curtains

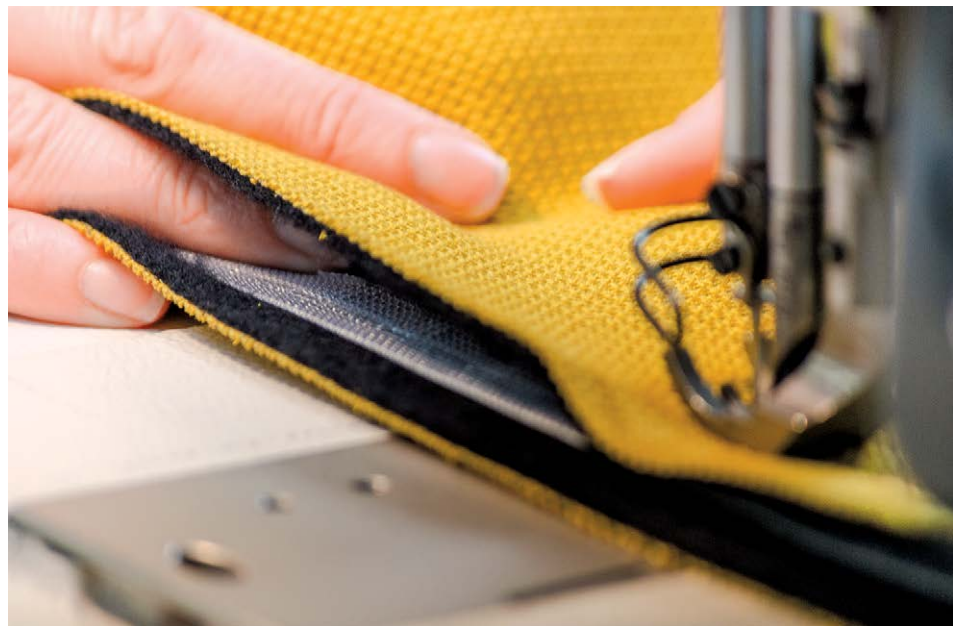
Vibrasto acoustic curtains may be joined together thanks to the zips inserted into their side seams, making them adaptable to spaces of all dimensions.

Vibrasto acoustic curtains by **Texaa®** are composed of two lengths of sound absorbing felt wadding within an outer envelope of **Aeria**. When fitted in front of glazed surfaces, **Vibrasto** curtains may be used to create darkness, filter incoming light, or absorb sound reflection in a meeting room or entrance hall. When used in open-plan spaces, they create subtle and flexible visual partitions, bringing a sense of tranquillity to multimedia libraries or story-telling spaces.

When fitted in front of a wall or partition, **Vibrasto** acoustic curtains may be used to redefine the acoustic atmosphere of a music room or dance studio. A single-sided version is therefore available, with only one layer of felt wadding clad in **Aeria**, for use when only one side of the curtain will be visible.

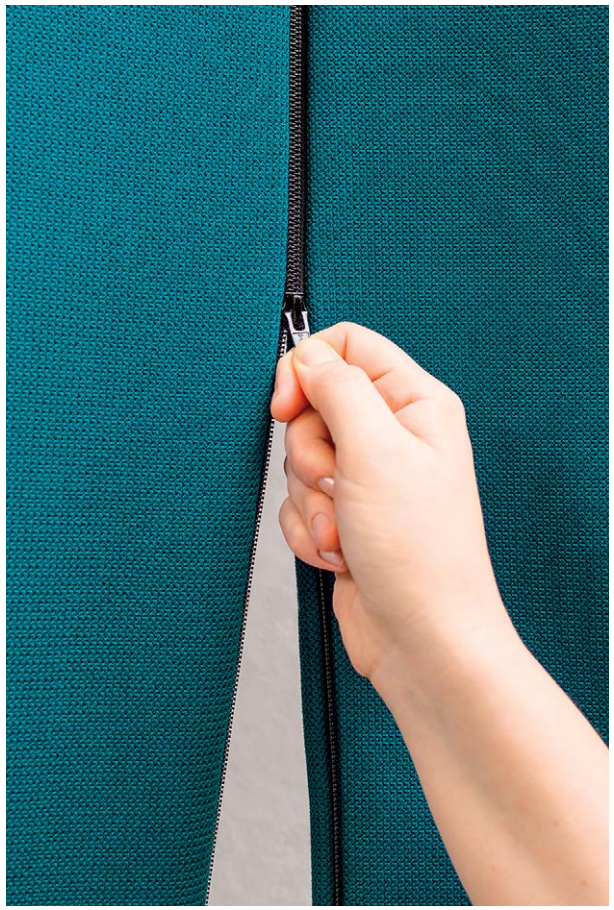
The width of one acoustic curtain is approx. 1,500 mm. Curtains are hung from a rail equipped with rollers and may be opened and closed easily. Two other heading designs are available for curtains not intended for regular opening and closing: eyelets and Velcro bands. Each curtain is fully hemmed.

Hemming and zip closing of a **Vibrasto** acoustic curtain.



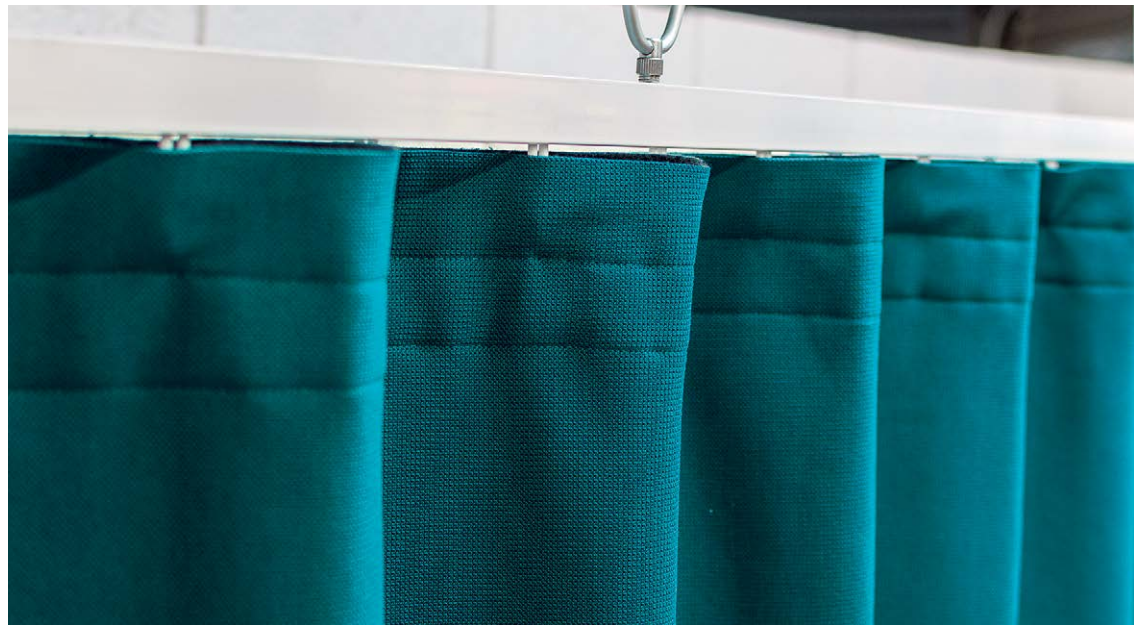
Making a **Vibrasto** acoustic curtain from two layers of sound absorbing felt wadding clad in **Aeria.**

Eyelet heading for **Vibrasto** acoustic curtains.



Zip fitted into the side seam, here in black, available on request.

Velcro bands.



Hanging rail with hooks.

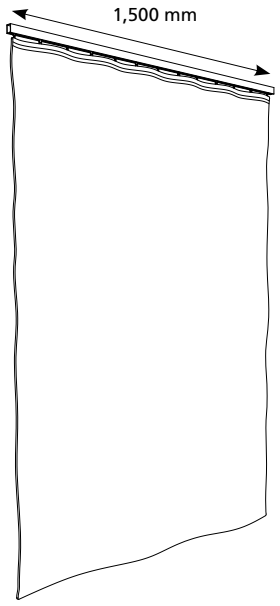
Vibrasto acoustic curtains used as a partition
Communal Hall, Fourmagnac
Architect: Magali Andrieu, Figeac

Vibrasto acoustic curtains fitted in front of glazing
Meeting room, Paris
Architect: Agence ASA, Alexandre Boulin, Toulouse,
Laurent Meyer architects and Studio Putman interior design

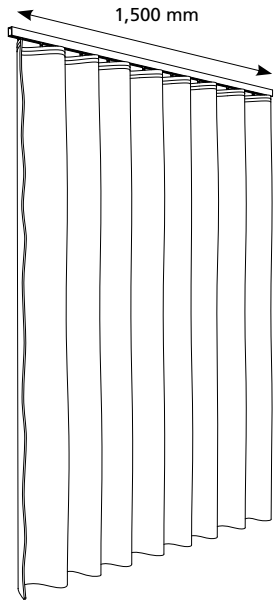
Curtains fitted with rollers make redesigning open spaces very simple.
Multimedia library L'Alpha, Grand Angoulême
Architect: Loci Anima architecture, Paris

The curtains create a hushed atmosphere, perfect for listening…

Double-sided Vibrasto acoustic curtains



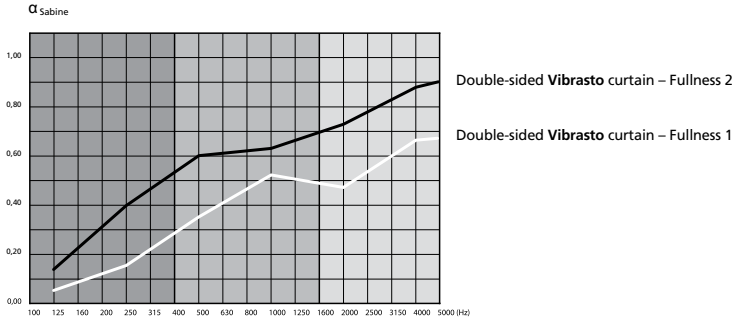
Curtain width 1,500 mm – fullness 1



Curtain width 3,000 mm – fullness 2

Fullness corresponds to pleating. The greater the fullness, the more pleating 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.

Acoustics



	α_w	Class	NRC	Frequencies (Hz)	125	250	500	1,000	2,000	4,000
Double-sided **Vibrasto** curtain – Fullness 1	0.40 (H)	D	0.40	α_{Sabine}	0.06	0.16	0.36	0.52	0.47	0.66
Double-sided **Vibrasto** curtain – Fullness 2	0.65 (H)	C	0.60	α_{Sabine}	0.14	0.40	0.60	0.63	0.72	0.88

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

Specifications for double-sided Vibrasto acoustic curtains

Sound absorption is guaranted by double-sided **Vibrasto** curtains which may also be used to create total darkness. They are highly flame resistant and are clad on both sides with non-fraying, antistatic and dirt repellent **Aeria** fabric, in combination with two layers of 3 mm thick sound absorbing black felt wadding. Each curtain is hemmed at the bottom and panels may be joined together thanks to zips inserted into their side seams, matching the colour of the fabric chosen.

Acoustic performance
– α_w = 0.40 for a single curtain hanging 100 mm from the substrate, with a fullness of 1 (curtain with no pleating)
– α_w = 0,65 for a single curtain hanging 100 mm from the substrate, with a fullness of 2 (curtain with no pleating)
– weight: 1.05 kg/m² (curtain with no pleating)
– maximum height 4 m
– possible lengthening: approximately 1 %

UK reaction to fire classification for complete product
B-s2, d0 – No flaming droplets

Colours
Available in a range of 22 colours, in round knit

Fitting

☐ **Hanging rail, custom-made lengths available**
The rail is equipped with rollers, according to the weight of the curtains. The rollers make it very easy to open and close the curtains.

☐ __ x double-sided **Vibrasto** curtain(s), height ___ [specify], width without pleating 1,500 mm, fitted with curtain tape and hooks

☐ __ x rail(s) equipped with rollers, brackets every 400 mm, length ___ mm

☐ **Curtain pole (not supplied)**

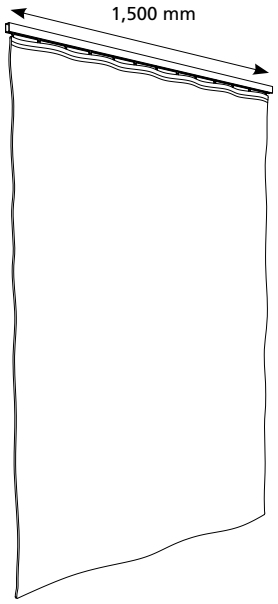
☐ __ x double-sided **Vibrasto** curtain(s), height ___ [specify], width without pleating 1,500 mm, fitted with Velcro bands

☐ __ x double-sided Vibrasto curtain(s), height ___ [specify], width without pleating 1,500 mm, fitted with Ø 40 mm eyelets

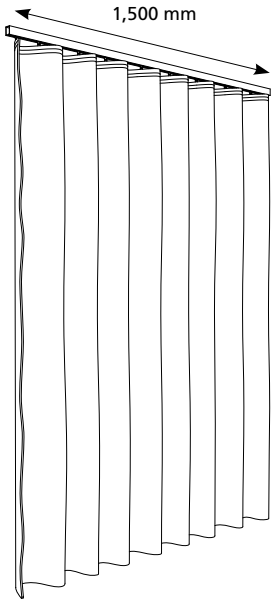
Production time
4 weeks

Fitting
Upholsterer, Curtain fitter

Single-sided Vibrasto acoustic curtains



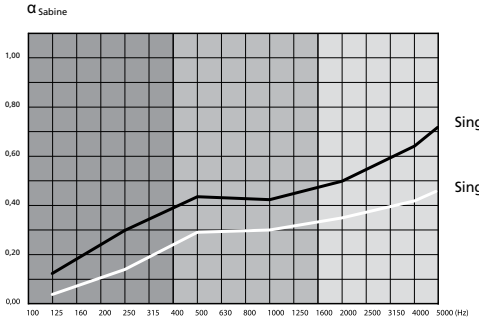
Curtain width 1,500 mm – Fullness 1



Curtain width 3,000 mm – Fullness 2

Fullness corresponds to pleating. The greater the fullness, the more pleating 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.

Acoustics



Single-sided **Vibrasto** curtain – Fullness 2

Single-sided **Vibrasto** curtain – Fullness 1

	α_w	Class	NRC	Frequencies (Hz)	125	250	500	1,000	2,000	4,000
Single-sided **Vibrasto** curtain – Fullness 1	0.35 (H)	D	0.30	α_{Sabine}	0.04	0.14	0.29	0.30	0.35	0.42
Single-sided **Vibrasto** curtain – Fullness 2	0.45 (H)	D	0.45	α_{Sabine}	0.13	0.30	0.43	0.42	0.50	0.64

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

Specifications for single-sided Vibrasto acoustic curtains

Sound absorption is guaranted by single-sided **Vibrasto** curtains. They are highly flame resistant and are clad on both sides with non-fraying, antistatic and dirt repellent **Aeria** fabric, in combination with one layer of 3 mm thick sound absorbing black felt wadding. Each curtain is hemmed at the bottom and panels may be joined together thanks to the zips inserted into their side seams, matching the colour of the fabric chosen.

Acoustic performance
– α_w = 0.35 for a single curtain hanging 100 mm from the substrate, with a fullness of 1 (curtain with no pleating)
– α_w = 0.45 for a single curtain hanging 100 mm from the substrate, with a fullness of 2 (curtain with no pleating)
– weight: 0.51 kg/m² (curtain with no pleating)
– maximum height 4 m
– possible lengthening: approximately 1 %

UK reaction to fire classification for complete product
B-s1, d0 (eq. Class 0) – No flaming droplets

Colours
Available in a range of 22 colours, in round knit

Fitting

☐ **Hanging rail, custom-made lengths available**
The rail is equipped with rollers, according to the weight of the curtains. The rollers make it very easy to open and close the curtains.

☐ __ x single-sided **Vibrasto** curtain(s), height ___ [specify], width without pleating 1,500 mm, fitted with curtain tape and hooks

☐ __ x rail(s) equipped with rollers, brackets every 400 mm, length ___ mm

☐ **Curtain pole (not supplied)**

☐ __ x single-sided Vibrasto curtain(s), height ___ [specify], width without pleating 1,500 mm, fitted with Velcro bands

☐ __ x single-sided Vibrasto curtain(s), height ___ [specify], width without pleating 1 500 mm, fitted with Ø 40 mm eyelets

Production time
4 weeks

Fitting
Upholsterer, Curtain fitter

Texaa® is an independent company with a staff of fifty-five, specialised in the manufacturing and distribution of acoustic materials. Our products all comprise a sound-absorbent foam within a layer of **Aeria***, our sound transparent fabric available in a range of 22 colours. All our products are designed and manufactured near Bordeaux, and we follow them all the way, from knitting machine to final assembly.

Texaa® has a team of specialist project managers, offering in-depth specialist knowledge of our products, of how they are manufactured and how they may be used *in situ*. They accompany individual projects, from the design table to the building site.

All **Texaa®** products are highly durable. They are hardwearing. Our panels and objects may be repaired and returned to use. We are proud to offer an efficient product follow-up service and will, upon request, replace fabric claddings or removable covers which are over 20 years old.

* **Aeria**, our sound transparent fabric with an exclusive **Texaa®** patent.

Crédits
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textiles, acoustics, architecture

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