

Texaa®

Specification and data sheets

Stretched and anchored
acoustic material

Vibrasto "évolution

January 2018

Regular updates available at texaa.com/documentation

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Vibrasto 15

Stretched and anchored acoustic material



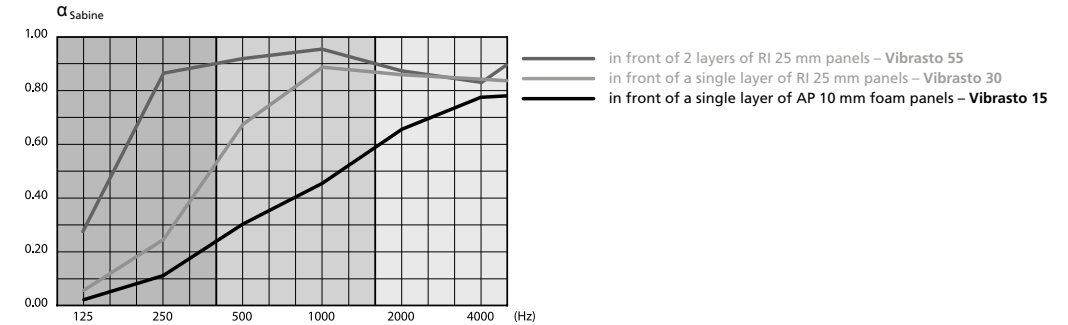
Vibrasto 15 provides a comprehensive system for solving acoustic problems in echoing spaces, for use on walls and ceilings. It comprises a highly flame resistant, non-dripping covering made of sound transparent **Aeria*** fabric, laminated onto wadding and stretch-fitted in front of an ultra-light sound-absorbing material. This flexible and simple solution is ideal for covering large surface areas, even curved surfaces, and delivers a perfect finish at a manageable cost.

Width: 1,500 mm, thickness: 15 mm

***Aeria**, sound transparent fabric, exclusively patented by **Texaa**® available in 2 knit styles: round knit (range of 22 colours) and "Grain de Riz" (3 colours).

Acoustics

- For **Vibrasto** stretched and anchored over concrete



	α_w	Class	NRC	Frequencies (Hz)						
Vibrasto + 10-mm AP foam	0.35 (H)	D	0.40	α_{Sabine}	0.03	0.11	0.30	0.46	0.66	0.78

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

Specification for Vibrasto 15

For walls [ceilings] we recommend the highly flame resistant, non-dripping **Vibrasto 15** covering made by **Texaa**®, 1,500 mm wide, comprising an outer layer of sound transparent **Aeria** fabric laminated onto wadding and stretch-fitted in front of AP foam panels. Its absorption coefficient α_w when fitted over concrete is 0.35 (H). The total thickness is then 15 mm.

Reaction to fire classification for Vibrasto covering
Class A (US) / equivalent Class 0 (UK)

Reaction to fire classification – complete product
B-s2, d0 – no flaming droplets or particles (Europe)

Environnement standards

HQE: FDES (EN 15804) – Environmental and Health Product Declaration Forms certified by AFNOR
LEED / BREEAM:

4 points for {
– acoustic contribution
– very low emissions of VOCs (Volatile Organic Compounds) and formaldehyde
– certified Environmental and Health Product Declaration Forms (EN 15804)

Tensioning battens made of a 100 %-recycled material

Performance indicators for Aeria

Hydro-oleophobic ≥ 5 (AATCC118 and AATCC193)

Antistatic properties: $7 \cdot 10^{10} \Omega$ (EN1149-1)

Cleaning

Vacuum cleaning, may be taken down and refitted

Guarantee

10 years

Colours

- Round knit 22 colours
- "Grain de Riz", 3 colours

- "Noir et blanc II" (delivered in lengths, for max. fitted dimensions of 2,800 mm x 1,400 mm)
- Embroidery option

Fitting methods

The fabric covering is installed by stretching it between battens in front of 10-mm thick panels of AP cellular foam, glued to the support surface. The total thickness is 15 mm.

Joins

Pencil-line joints are produced at the joins between adjacent lengths. The edges of the **Vibrasto** fabric are inserted into U-section battens running along the length of the join. Centre-to-centre distance: 1,500 mm (except for the "Noir et blanc II" colour scheme, for which this distance is 1,400 mm).

Edging

L-shaped battens are fitted around the periphery of the clad surface (and around door and window frames) and the edge of the **Vibrasto** fabric is laid into these battens.

Clad edging (for visible edging) option

Where an L-shaped batten is fitted along a visible edge, the batten can be ordered already clad with a matching fabric.

Outside corners

These corners shall be produced by stretching the covering over a corner batten provided by **Texaa**®.

Inside corners

These corners shall be produced as a pencil line joint.

Electrical fittings

Plug sockets, switches etc. shall stand proud from the surface by 10 mm.

Layout plan

Different batches of fabric in the same colour may show very slight variations in shade; it is therefore imperative to respect the layout plan drawn up for each wall.

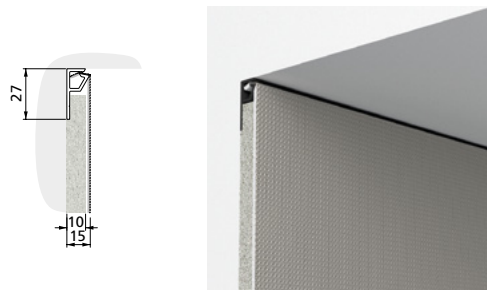
Production time

3 weeks

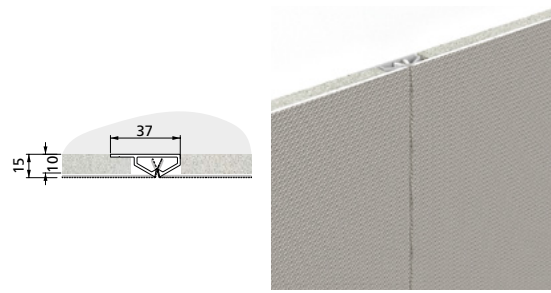
Professionals to be consulted

Upholsterers

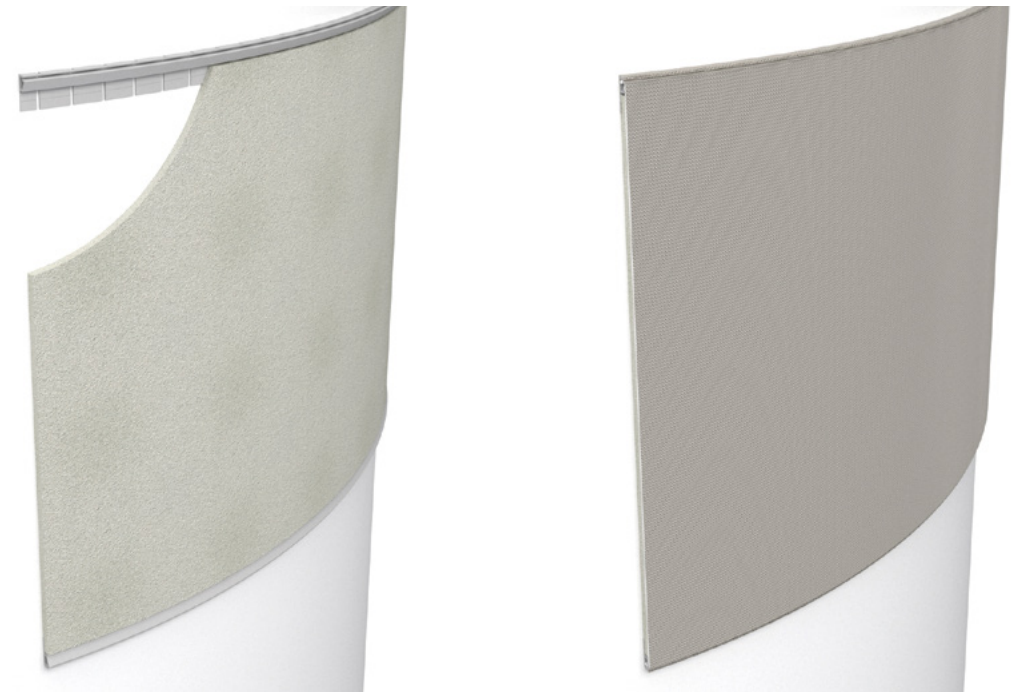
Ceiling



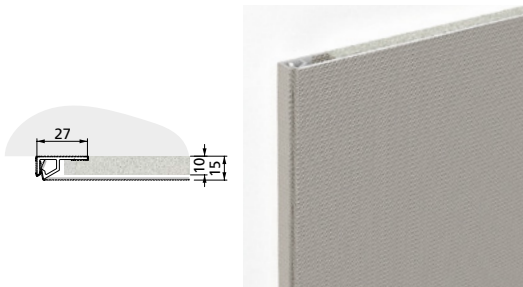
Joint centre-to-centre distance: 1,500 mm



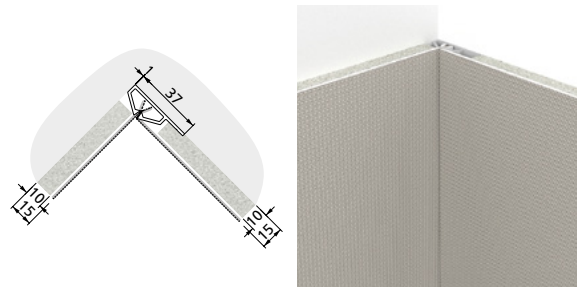
Convex surface



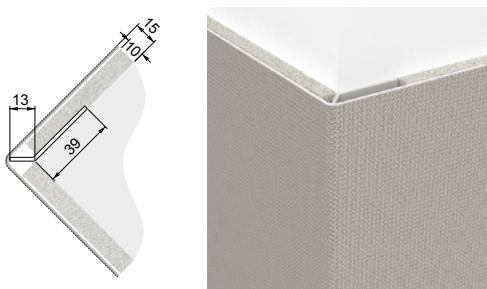
Clad visible edge option



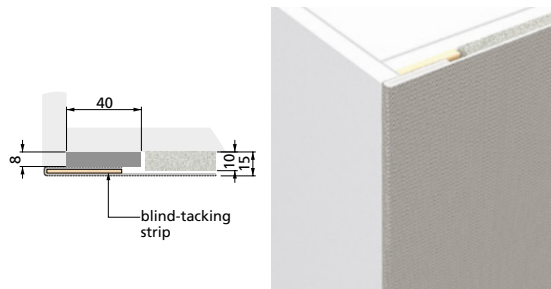
Inside corner



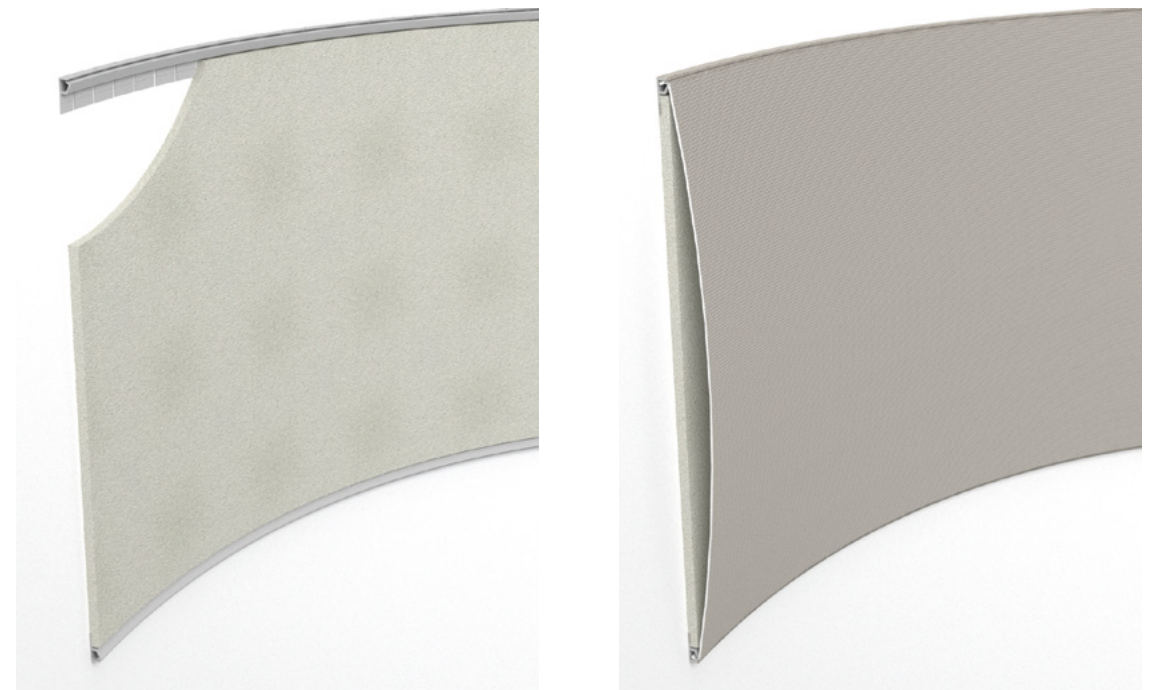
Outside corner



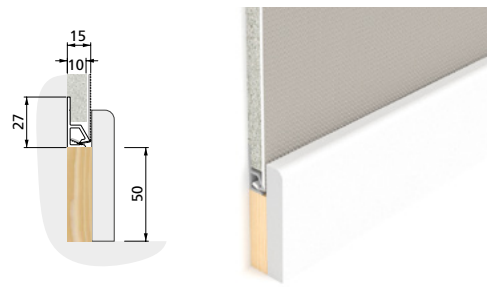
Thin visible edge



Concave surface

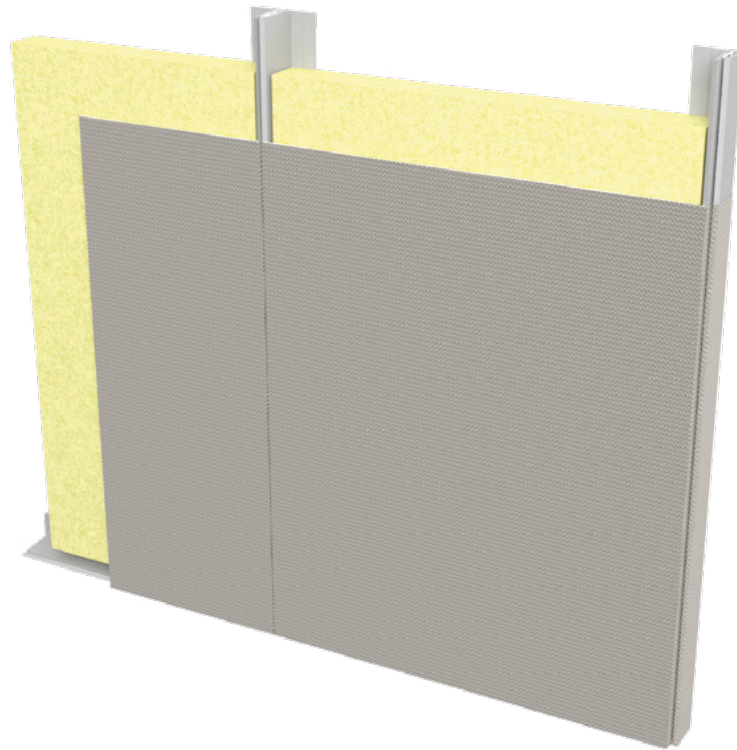


Skirting



Vibrasto 30

Stretched and anchored acoustic material



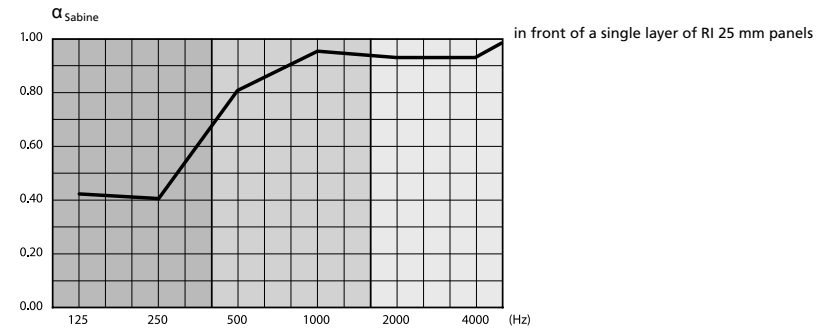
Vibrasto 30 provides a comprehensive system for solving acoustic problems in echoing spaces, for use on walls and ceilings. It comprises a highly flame resistant, non-dripping covering made of sound transparent **Aeria*** fabric, laminated onto wadding and stretch-fitted in front of a semi-rigid sound-absorbing material. Its simplicity and value for money in terms of acoustic performance makes this the ideal product for covering large surface areas with a perfect finish at a manageable cost.

Width: 1,500 mm, thickness: 30 mm

***Aeria** sound transparent fabric, exclusively patented by **Texaa®** available in 2 knit styles: round knit (range of 22 colours) and "Grain de Riz" (3 colours).

Acoustics

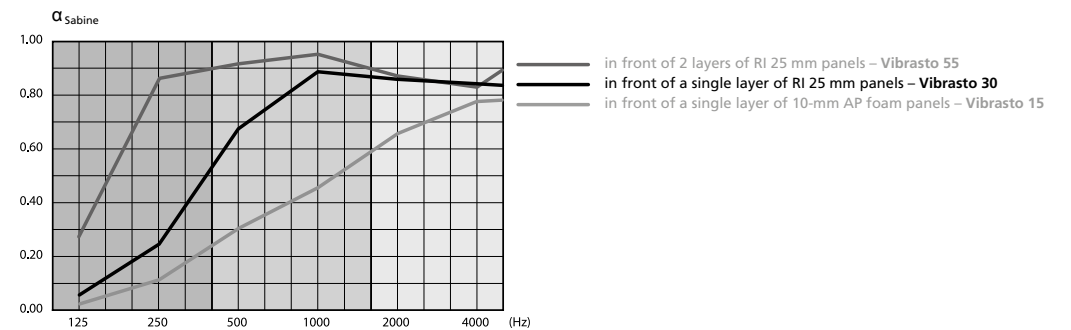
- For **Vibrasto** stretched and anchored in front of plasterboard screwed into a stud frame, in-filled with 45-mm thick mineral wool



	α_w	Class	NRC	Frequencies (Hz)						
Vibrasto + 25-mm RI panel	0.75 (H)	C	0.80	α_{Sabine}	0.42	0.40	0.81	0.96	0.93	0.93

This traditional wall construction method provides addition sound absorption at low frequencies.

- For **Vibrasto** stretched and anchored over concrete



	α_w	Class	NRC	Frequencies (Hz)						
Vibrasto + 25-mm RI panel	0.50 (MH)	D	0.70	α_{Sabine}	0.06	0.26	0.68	0.89	0.87	0.84

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

Specification for Vibrasto 30

For walls [ceilings] we recommend the highly flame resistant, non-dripping **Vibrasto 30** covering made by **Texaa**®, 1,500 mm wide, comprising an outer layer of sound transparen **Aeria** fabric laminated onto wadding and stretch-fitted in front of RI panels. Its absorption coefficient α_w when fitted over concrete is 0.50 (MH). The total thickness is 30 mm.

Reaction to fire classification for Vibrasto covering

Class A (US) / equivalent Class 0 (UK)

B-s1, d0 – no flaming droplets or particles (Europe)

Reaction to fire classification for RI panel

A2-s1, d0 – no flaming droplets or particles (Europe)

Environnement standards

HQE: FDES (EN 15804) – Environmental and Health Product Declaration Forms certified by AFNOR

LEED / BREEAM:

4 points for $\left\{ \begin{array}{l} - \text{acoustic contribution} \\ - \text{very low emissions of VOCs (Volatile Organic Compounds) and formaldehyde} \\ - \text{certified Environmental and Health Product Declaration Forms (EN 15804)} \end{array} \right.$

Tensioning battens made of a 100 %-recycled material

Performance indicators for Aeria

Hydro-oleophobic ≥ 5 (AATCC118 and and AATCC193)

Antistatic properties: $7 \cdot 10^{10} \Omega$ (EN1149-1)

Cleaning

Vacuum cleaning, may be taken down and refitted

Guarantee

10 years

Colours

Round knit 22 colours

"Grain de Riz", 3 colours

"Noir et blanc II" (delivered in lengths, for max. fitted dimensions of 2,800 mm x 1,400 mm)

Embroidery option

Fitting methods

The fabric covering is installed by stretching it between battens in front of 25-mm RI panels (impregnated glass wool) which are "dot and dab" bonded or fastened to the support surface. The total thickness is 30 mm.

Joins

Pencil-line joints are produced at the joins between adjacent lengths.

The edges of the **Vibrasto** fabric are inserted into U-section battens running along the length of the join. Centre-to-centre distance: 1,500 mm (except for the "Noir et blanc II" colour scheme, for which this distance is 1,400 mm).

Edging

L-shaped battens are fitted around the periphery of the clad surface (and around door and window frames) and the edge of the **Vibrasto** fabric is laid into these battens.

Clad edging (for visible edging) option

Where an L-shaped batten is fitted along a visible edge, the batten can be ordered already clad with a matching fabric.

Outside corners

There are two possible fitting methods:

using a **Texaa**® supplied stand-off batten to produce a pencil line join.

with no join, by stretching the covering over a corner batten provided by **Texaa**®.

Inside corners

These corners shall be produced as a pencil line joint.

Electrical fittings

Plug sockets, switches etc. shall stand proud from the surface by 25 mm.

Layout plan

Different batches of fabric in the same colour may show very slight variations in shade; it is therefore imperative to respect the layout plan drawn up for each wall.

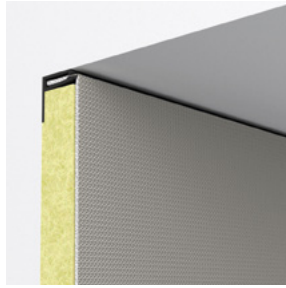
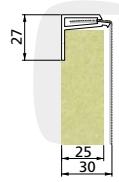
Production time

3 weeks

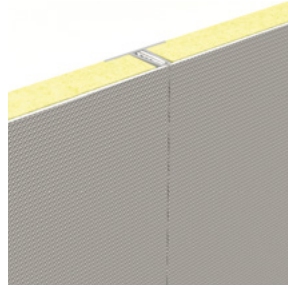
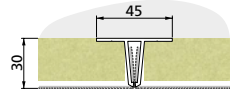
Professions to be consulted

Upholsterers

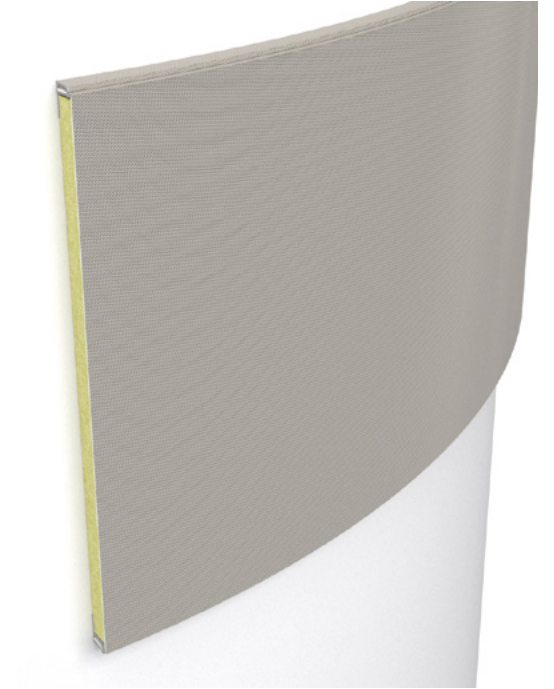
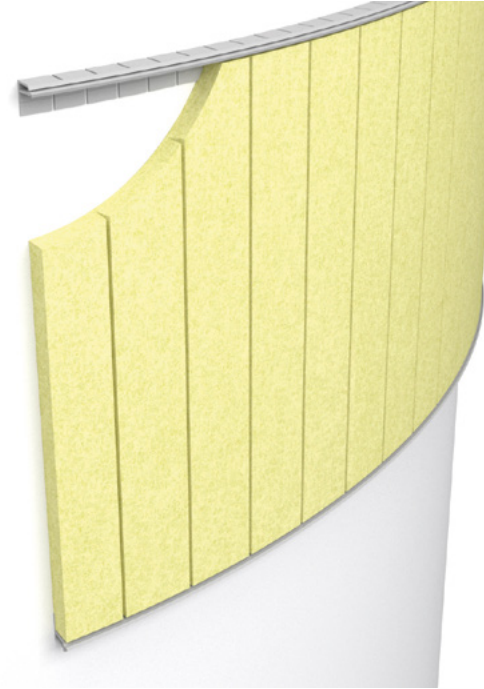
Ceiling



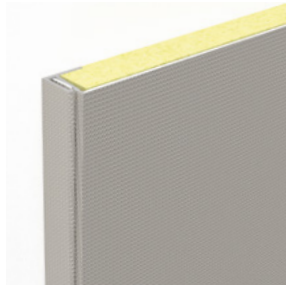
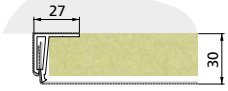
Joint centre-to-centre distance: 1,500 mm



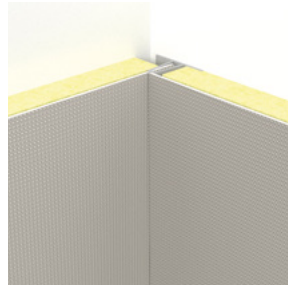
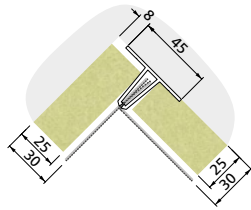
Convex surface



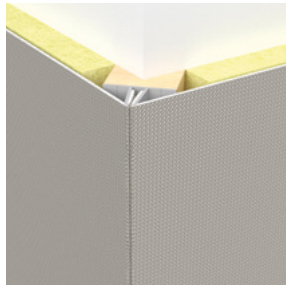
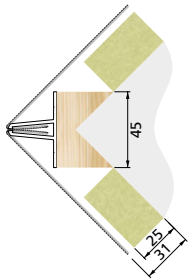
Clad visible edge option



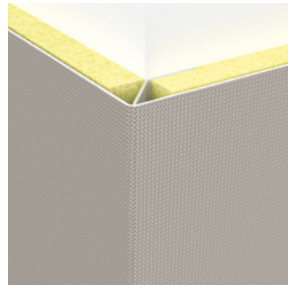
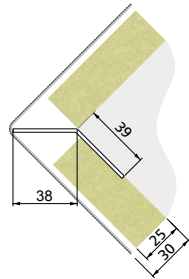
Inside corner



Outside corner using a wooden batten



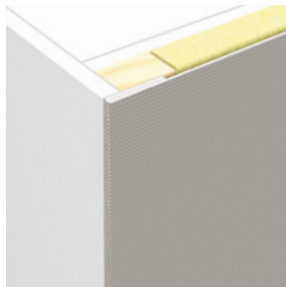
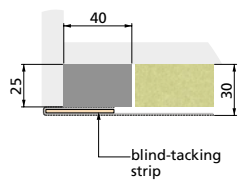
Outside corner over a metal corner batten



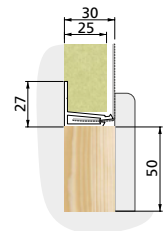
Concave surface



Thin visible edge

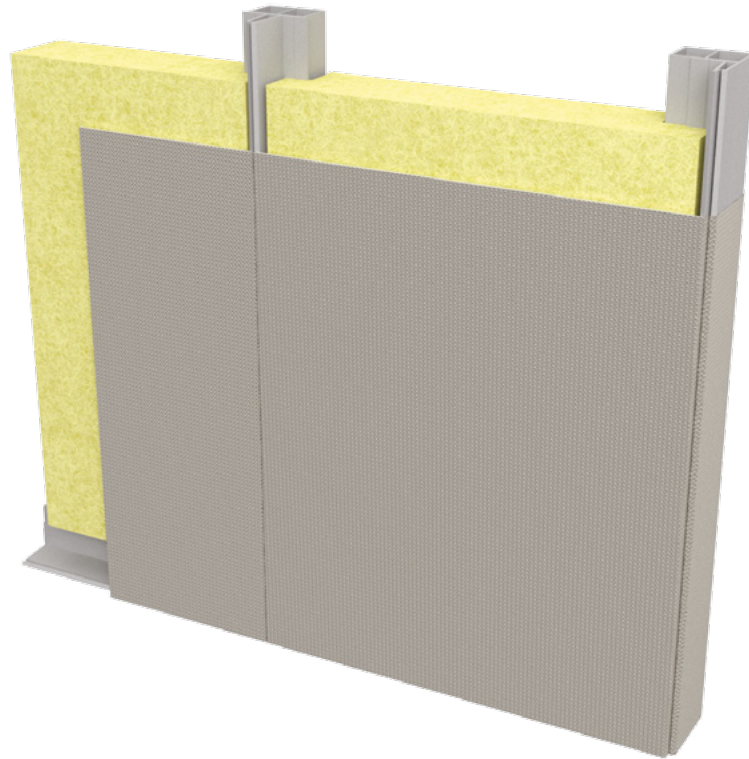


Skirting



Vibrasto 55

Stretched and anchored acoustic material



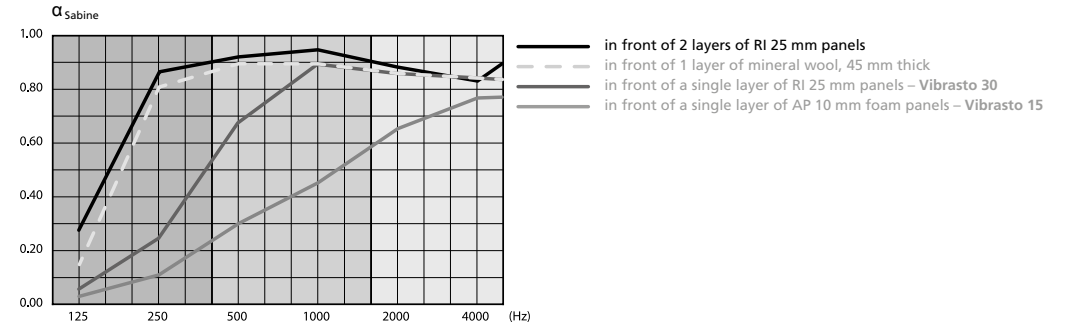
Vibrasto 55 provides a comprehensive system for solving acoustic problems in echoing spaces, for use on walls and ceilings. It comprises a highly flame resistant, non-dripping covering made of sound transparent **Aeria*** fabric, laminated onto wadding and stretch-fitted in front of a thick sound-absorbing material. Its exceptional performance corrects the acoustics of spaces with significant reverberation problems, while minimising the surface area which needs to be treated.

Width: 1,500 mm, thickness: 55 mm

***Aeria**, sound transparent fabric, exclusively patented by **Texaa**® available in 2 knit styles:
round knit (range of 22 colours) and "Grain de Riz" (3 colours).

Acoustics

- For **Vibrasto** stretched and anchored over concrete



	α_w	Class	NRC	Frequencies (Hz)	125	250	500	1,000	2,000	4,000
Vibrasto + Two 25-mm RI panels	0.95	A	0.90	α_{Sabine}	0.27	0.86	0.92	0.94	0.88	0.83
Vibrasto + 45-mm mineral wool	0.90	A	0.90	α_{Sabine}	0.15	0.81	0.89	0.89	0.86	0.84

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

Specification for Vibrasto 55

For walls [ceilings] we recommend the highly flame resistant, non-dripping **Vibrasto 55** covering made by **Texaa**®, 1,500 mm wide, comprising an outer layer of sound transparent **Aeria** fabric laminated onto wadding and stretch-fitted in front of RI panels. Its absorption coefficient α_w when fitted over concrete is 0.95. The total thickness is 55 mm.

Reaction to fire classification for Vibrasto covering

Class A (US) / equivalent Class 0 (UK)
B-s1, d0 – no flaming droplets or particles (Europe)

Reaction to fire classification for two RI panels

A2-s1, d0 – no flaming droplets or particles (Europe)

Environnement standards

HQE: FDES (EN 15804) – Environmental and Health Product Declaration Forms certified by AFNOR LEED / BREEAM:

4 points for $\left\{ \begin{array}{l} - \text{acoustic contribution} \\ - \text{very low emissions of VOCs (Volatile Organic Compounds) and formaldehyde} \\ - \text{certified Environmental and Health Product Declaration Forms (EN 15804)} \end{array} \right.$
Tensioning battens made of a 100 %-recycled material

Performance indicators for Aeria

Hydro-oleophobic ≥ 5 (AATCC118 and and AATCC193)
Antistatic properties: $7 \cdot 10^{10} \Omega$ (EN1149-1)

Cleaning

Vacuum cleaning, may be taken down and refitted

Guarantee

10 years

Colours

- Round knit 22 colours
- "Grain de Riz", 3 colours

- "Noir et blanc II" (delivered in lengths, for max. fitted dimensions of 2,800 mm x 1,400 mm)
- Embroidery option

Fitting methods

The fabric covering is installed by stretching it between battens in front of two layers of 25-mm RI panels (impregnated glass wool) fastened to the support surface. The total thickness is 55 mm.

Joins

Pencil-line joints are produced at the joins between adjacent lengths. The edges of the **Vibrasto** fabric are inserted into U-section battens running along the length of the join. Centre-to-centre distance: 1,500 mm (except for the "Noir et blanc II" colour scheme, for which this distance is 1,400 mm).

Edging

L-shaped battens are fitted around the periphery of the clad surface (and around door and window frames) and the edge of the **Vibrasto** fabric is laid into these battens.

Clad edging (for visible edging) option

For a 55-mm thick assembly, L-shaped battens, delivered already clad with a matching fabric, are fitted along the visible edges.

Oak clad edging option

Solid oak framing elements shall be fitted to the lower part of the edging battens, into which are inserted the edges of the **Vibrasto** fabric covering.

Outside corners

These corners shall be produced by stretching the covering over a corner batten provided by **Texaa**®.

Inside corners

These corners shall be produced as a pencil line joint.

Electrical fittings

Plug sockets, switches etc. shall stand proud from the surface by 50 mm.

Layout plan

Different batches of fabric in the same colour may show very slight variations in shade; it is therefore imperative to respect the layout plan drawn up for each wall.

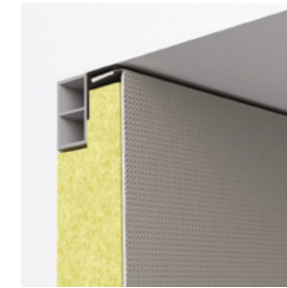
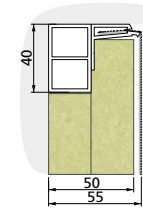
Production time

3 weeks

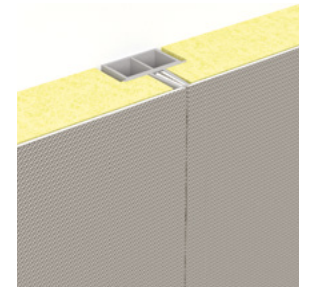
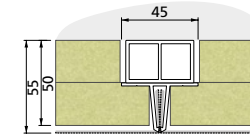
Professions to be consulted

Upholsterers

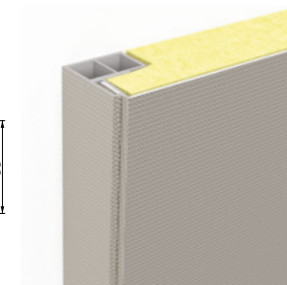
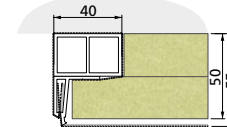
Ceiling



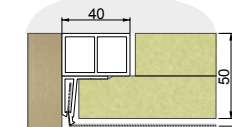
Joint centre-to-centre distance: 1,500 mm



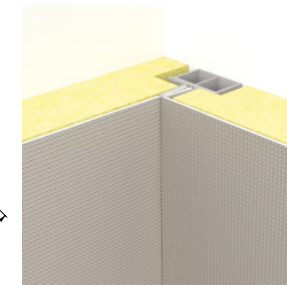
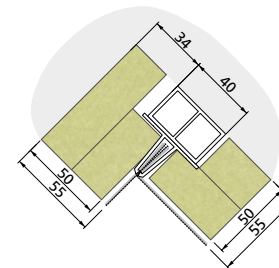
Clad visible edge option



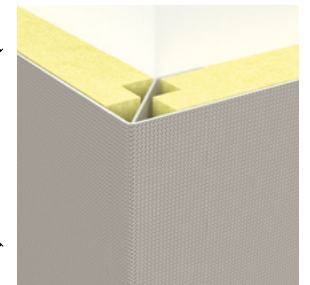
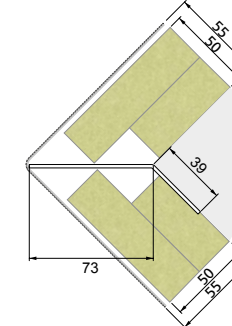
Clad visible edge option – oak



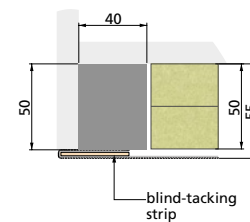
Inside corner



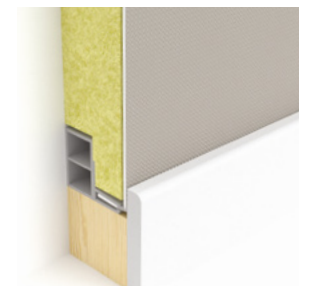
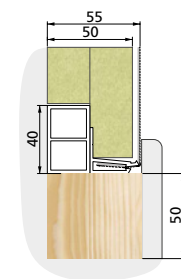
Outside corner



Thin visible edge



Skirting



Technical characteristics: Vibrasto “évolution

Definition	Vibrasto 15	Vibrasto 30	Vibrasto 55
Fitting	stretch and anchor	stretch and anchor	stretch and anchor
Absorbent material / thickness	black or grey wadding/3 mm AP foam/10 mm	black or grey wadding/3 mm RI panel (black cloth cover)/25 mm	black or grey wadding/3 mm 2 RI panels (black cloth cover)/50 mm
Surface / colours	Aeria* round knit/22 colours Aeria* "Grain de Riz"/3 colours	Aeria* round knit/22 colours Aeria* "Grain de Riz"/3 colours	Aeria* round knit/22 colours Aeria* "Grain de Riz"/3 colours
Physical properties			
- Weight	covering: 0.51 kg/m ² 10-mm AP foam: 0.1 kg/m ²	covering: 0.51 kg/m ² 25-mm RI panel: 1.6 kg/m ²	covering: 0.51 kg/m ² 25-mm 2 RI panel: 3.2 kg/m ²
- Total thickness / overall size	15 mm +0/-1	30 mm +0/-1	55 mm +0/-1
- Width	1,520 +10/-10**	1,520 +10/-10**	1,520 +10/-10**
- Length	to suit requirements and packaging limitations		
- Formability (length or width)	+3 % - 0 %	+3 % - 0 %	+3 % - 0 %
- Thermal resistance (EN 12667)	covering: 0.09 m ² K/W 10-mm AP foam: 0.29 m ² K/W	covering: 0.09 m ² K/W 25-mm RI panel: 0.75 m ² K/W	covering: 0.09 m ² K/W two, 25-mm RI panels: 1.50 m ² K/W
- Light reflectance (for Pearly white colour, MR 640)	81 %	81 %	81 %
Durability			
Mechanical properties			
- Abrasion resistance (EN 530 – number of rubs)	> 40,000	> 40,000	> 40,000
- Fraying	none	none	none
- Variation in dimensions under normal conditions of T°C and humidity	< 0.1 %	< 0.1 %	< 0.1 %
- Colour fastness ISO 105-B02 (scale from 1 to 8)	≥ 5	≥ 5	≥ 5
- Electrostatic properties (EN 1149-1)	7 10 ¹⁰ Ω	7 10 ¹⁰ Ω	7 10 ¹⁰ Ω
- Hydrophobia and oleophobia AATCC118 and AATCC193 (scale from 1 to 8)	≥ 5	≥ 5	≥ 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		
Health and safety			
Reaction to fire classification	no flaming droplets or particles	no flaming droplets or particles	no flaming droplets or particles
- Europe	complete product: B-s2, d0	covering: B-s1, d0 25-mm RI panel: A2-s1, d0	covering: B-s1, d0 two, 25-mm RI panel: A2-s1, d0
- United Kingdom	Covering: equivalent Class 0	Covering: equivalent Class 0	Covering: equivalent Class 0
- United States	Covering: Class A	Covering: Class A	Covering: Class A
Gross heat of combustion (EN ISO 1716)	covering: 20.22 MJ/kg 10-mm AP foam: 19.92 MJ/kg covering: 10.31 MJ/m ² 10-mm AP foam: 1.99 MJ/m ²	covering: 20.22 MJ/kg 25-mm RI panel: 2.31 MJ/kg covering: 10.31 MJ/m ² 25-mm RI panel: 3.57 MJ/m ²	covering: 20.22 MJ/kg two, 25-mm RI panels: 2.31 MJ/kg covering: 10.31 MJ/m ² two, 25-mm RI panels: 7.14 MJ/m ²
Development of micro-organisms	the materials used reduce the presence of house dust mites and micro-organisms		
Environmental standards			
HQE® High Quality Environmental standard (standard EN 15804)	AFNOR-certified environmental product declaration	AFNOR-certified environmental product declaration	AFNOR-certified environmental product declaration
Emissions of VOC and formaldehyde (ISO 16000) French health labelling / in accordance with German protocol AgBB (May 2010)	A+ / compliant	A+ / compliant	A+ / compliant
Contribution to LEED / BREEAM certification			
- environmental and Health Product Declaration Forms	credit of 4 points	credit of 4 points	credit of 4 points
- air emissions			
- acoustic contribution			
Tensioning battens made from 100 % recycled material	yes	yes	yes
Cleaning			
Method	vacuum clean every one to five years, depending on the conditions of use*** removable	vacuum clean every one to five years, depending on the conditions of use*** removable	vacuum clean every one to five years, depending on the conditions of use*** removable

* Texaa®, international patent Aeria sound transparent fabric

** except "Noir et blanc II" supplied with a width of 1,420 mm

*** refer to the cleaning and maintenance sheets

Cleaning guidelines for Aeria

To protect the true colour of your **Aeria** fabric, we advise you clean it regularly by:

- removing dust with a soft brush or vacuum cleaner,
- using an absorbent cloth to remove spilt liquids,
- cleaning marks or spillages quickly, before they have time to dry and stain the fabric.

Aeria is treated with a durable water repellent fluoropolymer, so it is usually enough to remove any spillages or dirt by gently dabbing the marked fabric. Never rub the fabric.

If a stain proves harder to remove, please follow the following instructions.

For water-based liquids (tea, coffee, soft drinks, wine, etc.)

If the liquids have penetrated the fabric, use a vacuum cleaner to remove any dust from the stained 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 cloth. If the stain persists, renew 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 colorant-based stains (marker pen, biro, ink etc.)

Dab the stain gently 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.

In order to avoid the formation of rings, please clean stains and marks from the outside towards the middle, and then use a hair-dryer to speed up the drying process.

Texaa® is an independent company with a staff of fifty-five which designs, manufactures and distributes acoustic materials. Our products all comprise a sound-absorbing foam within a layer of **Aeria***, a sound-transparent fabric available in two knit styles: round knit (22 colours) and rice grain knit (3 colours) – all the manufacturing processes from fabric knitting through to assembly take place in our workshops near Bordeaux in France.

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 and easy to clean. Our panels and objects may be repaired and returned to use. Their textile covers are removable and machine washable. 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 textile with an exclusive **Texaa®** patent.

Texaa®
textile, acoustics, architecture

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