

Sound absorber



Applications

Ceilings and walls, sails and velums, suspended canopies



- **Acoustic efficiency:** reduces reverberation effect up to four-fold.
- **Durable without maintenance:** thanks to its high resistance to tension, abrasion, impacts and its ability to withstand moist and chlorine environments.
- **Creative design:** flexibility, complex shapes, large spans, printability.
- **Health & environment:** Greenguard gold and french A+ certification for better air quality. Lightweight for lower environmental impact (LCA).

A thin and flexible sound absorber
for innovative acoustic solutions

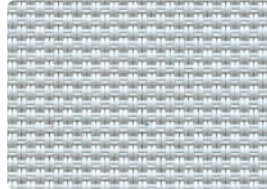


Timeless colours

White reflects and prolongs the light, thereby optimising lighting. As a source of contrast, black absorbs the light and sculpts volumes. Soft and quiet, green and cotton colours evoke architectural materials: stone, concrete, steel, wood. Burst of colour express the desire to highlight the space.



Kilimandjaro 7005-6642



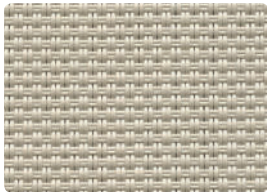
Alaska 7005-6711



Granite 7005-50222



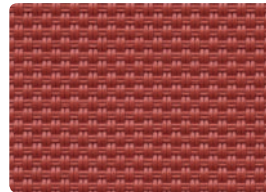
Odessa 7005-6842



Coton 7005-50219



Bamboo 7005-50221



Red 7005-50224



Lux 7005-51045

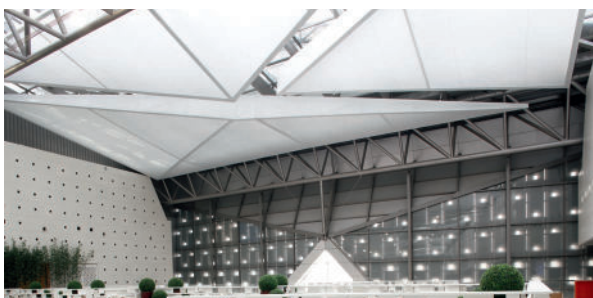
Other colours available on request (consult us)

Place this page in front of a light source to witness Alphalia Silent Aw's translucence and whiteness.



Kilimandjaro 7005-6642

Lux 7005-51045



Alphalia Silent Aw Lux - A unique combination of acoustic and lighting comfort.

- Absorbs 65% of sound and transmits 41% of light.
- Protects from solar heat (-59%) and glare beneath a glass roof or facade.

■ Optimise acoustic comfort

Alphaia Silent Aw composite material has exceptional acoustic performance.

Practical cases - Alphaia Silent Aw **without additional absorbent**
reduction in reverberation time after Alphaia Silent Aw treatment *(reports available on request)*



Ceiling and walls - Vaujany ice rink (FR)



Tensioned ceiling - Sports hall (NZ)



Tensioned ceiling - Aqua centre (CH)



Ceiling and baffles - Restaurant (FR)

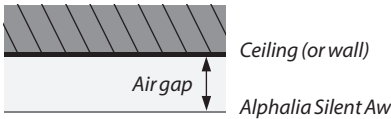
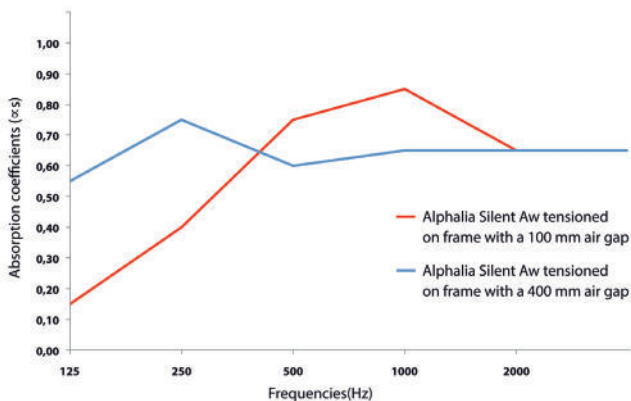
Before	7,7 s	6,9 s	4 s	3,11 s
After	1,8 s	2,5 s	1,6 s	0,87 s
Gain	76,6 %	63,7 %	60 %	72 %

– Simply tensioned Alphaia Silent Aw

Freely tensioned Alphaia Silent Aw with an air gap is a solution that sets itself apart through:

- Avoiding the cost of a foam-, fibre- or wool-type additional absorbent and the drawbacks associated with such products,
- Efficient absorption throughout the sound frequency range, including low frequencies. This performance characteristic enables the requirements of multiple buildings to be met: sports halls, multipurpose halls, etc.

Alphaia Silent Aw with air gap and no additional absorbent



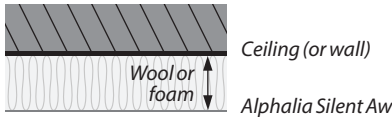
Absorption coefficient (ISO 354)

Freq. (Hz)	Alphaia Silent Aw + 100 mm air layer	Alphaia Silent Aw + 400 mm air layer
125	0.15	0.55
250	0.40	0.75
500	0.75	0.60
1000	0.85	0.65
2000	0.65	0.65
4000	0.65	0.65
aw*	0.65	0.65
NRC*	0.65	0.65

– Alphaia Silent Aw combined with an absorbent

Alphaia Silent Aw can be combined with a conventional absorbent to meet specific needs absorbion requirements.

Alphaia Silent Aw therefore enhances the absorbent's performance and reduces the thickness of the complex.



Freq. (Hz)	Alphaia Silent Aw against 45 mm Rockwool (density 28 to 36 kg/m³)	Alphaia Silent Aw against 100 mm Rockwool (density 28 to 36 kg/m³)
125	0.30	0.80
250	0.80	1.00
500	1.00	1.00
1000	1.00	1.00
2000	0.95	0.95
4000	0.90	0.90
aw*	1.00	1.00
NRC*	0.95	1.00

Yw: Weighted acoustic absorption coefficient
NRC: Noise reduction coefficient ASTM C243-90a
Reports on SO 354 ceiling, suspended panel, curtain and baffle tests are available on request.
*Results subject to slight variations

■ Choose the installation system best suited to your project

Unlike conventional materials, the unmatched flexibility, lightness and finesse of Alphaia Silent Aw materials allow:

- unrestricted freedom of implementation,
- fulfillment of several needs: acoustic, design, light, solar protection, strength,
- fixed or moving lightweight acoustics for adapting to a need and optimising structural usage.



Tensioned sails
Lightweight, durable architecture.
Solar protection under a glass roof.



Fixed or retractable canopies
An alternative to flat surfaces.
In fixed or retractable versions.



Cladding of components
Acoustic envelope adapting to all component or structural shapes.



Baffles
Custom acoustic baffles.
Glass roof blinds for solar protection.



Tensioned ceilings
Large flat or curved, continuous surfaces.
Quick installation and removal.



Wall & ceiling panels
Custom dimensions, shapes and printing.



Behind openwork facing
Tensioned or stapled behind an openwork element.



Luminous ceilings
Acoustic objects for lighting based on Alphaia Silent Aw Lux.



Tensioned walls
Flat or curved, continuous, absorbent surfaces.
Printing or image screening.



Curtains & screens
Easy to install, no heavy operation required.
Projection screens.



Sliding panels
In front of glazing or as separating partition.
Movable to adapt acoustics to room usage.



Printed panels
HD restitution, optimum colour rendition.

Alphalia

Silent Aw

■ Technical properties

Weight	620 g/m ²	Standards
Width	270 cm (Kilimandjaro 6642 in 270 cm & 135 cm)	EN ISO 2286-2

■ Physical properties

Tensile strength (warp/weft)	250/220 daN/ 5 cm	EN ISO 1421
Tear strength (warp / weft)	25/25 daN	DIN 53.363
Impact resistance	Class 1A (Excellent after 36 impacts at 60km/h)	EN 13964 annex D
Micro organism resistance	Degree 0, excellent	ISO 846-A
Extreme working temperatures	-30°C / +70°C	in static position

■ Flame retardancy

Rating	B1 /DIN 4102-1 – BS 7837 – Class 1 / UNI 9177 – Class A /ASTM E84 – Group 1 / AS-NZS 3837 – AS-NZS 1530.2 & 3 – IMO A653 – NFPA 701 Part 2	
Euroclass	B-s2,d0 /EN 13501-1	

■ Solar and light properties

	Kilimandjaro (White)	Lux (Translucent)	
Visible reflection Rv	90%	57%	EN 14501
Visible transmission Tv	7%	41%	EN 14501
Internal Solar Factor G _{tot} ⁱ	0,31	0,41	EN 14501 (glazing C)

■ Management systems

Quality	ISO 9001
Environment	ISO 14001

■ Certifications, labels, warranties



10 year
guarantee

Smart
Yarn

CE Marking compliance
(EN 14716) tensioned ceilings



With **S+** Serge Ferrari goes further than the Standards...(consult us for further information)

■ Tools and services

- Making-up guide & cleaning instructions available on demand
- Special colour production on demand

Material strength characteristics quoted are average values subject to a +/-5% tolerance.

The buyer of our products is fully responsible for their application or their transformation concerning any possible third party. The buyer of our products is responsible for their implementation and installation in compliance with standards, codes of practice and safety regulations in force in destination countries.

To ensure warranty effectiveness, refer to warranty certificate concerned available on demand.

The values quoted above represent results of tests performed in compliance with common design practices and are provided for information only to enable customers to make the best use of our products. Our products are subject to changes prompted by technological developments. We reserve the right to modify their characteristics at any time. The buyer of our products is responsible for checking the validity of the above data.