

Comfort

AW



Tenseo Comfort AW

A thin and flexible sound absorber for innovative acoustic solutions

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).

Timeless colors:

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



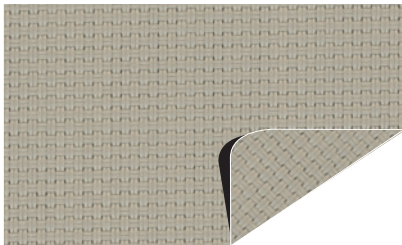
**A unique combination
of acoustic
and lighting comfort**

Tenseo Comfort AW



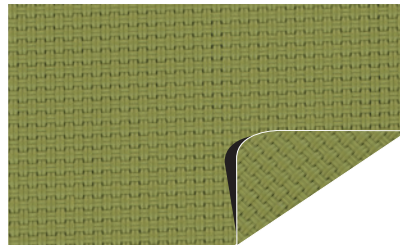
Kilimandjaro

7005-6642



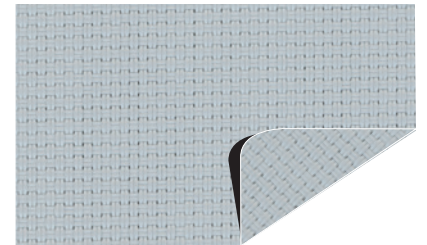
Cotton

7005-50219



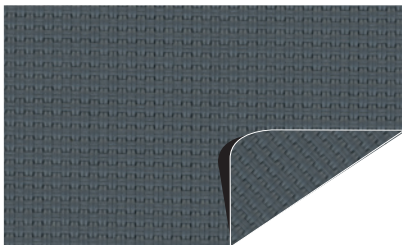
Bamboo

7005-50221



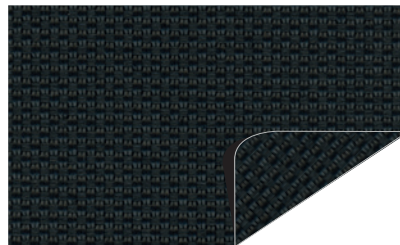
Alaska

7005-6711



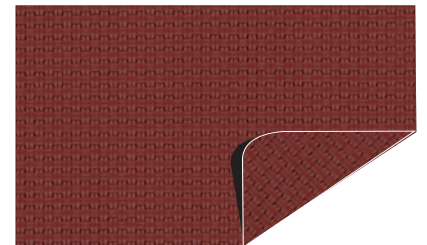
Granite

7005-50222



Odessa

7005-6842



Red

7005-50224



Lux (translucent)

7005-52045

Other colors available on request (consult us)

Smart Yarn technology

The Smart Yarn technology allows us to produce composite yarns with greater flexibility in development, providing a unique advantage when the product is used for certain dynamic markets such as furniture or acoustic inner liner. This technology allows the combination of a central core, providing the desired mechanical properties, and a sheath, providing the desired appearance, finish, toughness and resistance properties.



Optimise acoustic comfort

Tenseo Comfort AW composite material has exceptional acoustic performance.

Practical cases - Tenseo Comfort AW **without additional absorbent**

Reduction in reverberation time after Tenseo Comfort AW treatment (reports available on request)



Ceiling & walls - Vaujany ice rink (FR)



Tensioned ceiling - Sports hall (NZ)



Tensioned ceiling - Aqua centre (CH)



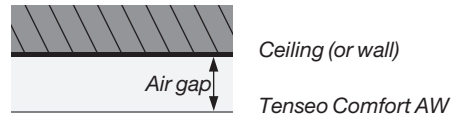
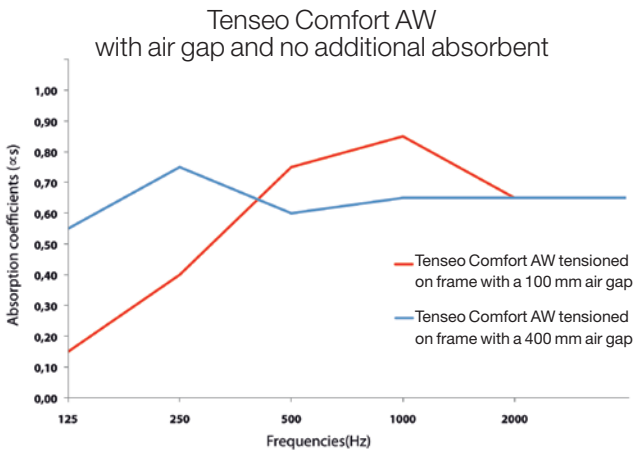
Ceiling & baffles - Restaurant (FR)

	7.7 s	6.9 s	4 s	3.11 s
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 Tenseo Comfort AW

Freely tensioned Tenseo Comfort 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.



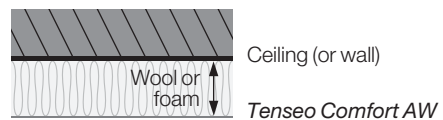
Absorption coefficient (ISO 354)

Freq. (Hz)	Tenseo Comfort AW + 100 mm air layer	Tenseo Comfort 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

Tenseo Comfort AW combined with an absorbent

Tenseo Comfort AW can be combined with a conventional absorbent to meet specific needs absorption requirements.

Tenseo Comfort AW therefore enhances the absorbent's performance and reduces the thickness of the complex.



Freq. (Hz)	Tenseo Comfort AW against 45 mm Rockwool (density 28 to 36 kg/m³)	Tenseo Comfort 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
1,000	1.00	1.00
2,000	0.95	0.95
4,000	0.90	0.90
aw*	1.00	1.00
NRC*	0.95	1.00

aw: Weighted acoustic absorption coefficient

NRC: Noise Reduction Coefficient ASTM C423

Reports on ISO 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 Tenseo Comfort 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



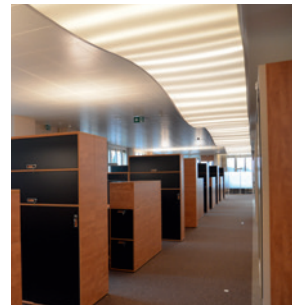
Tensioned ceilings
Large flat or curved, continuous surfaces
Quick installation and removal



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 Tenseo Comfort 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 color rendition

Tenseo Comfort AW

Mechanical properties

Tensile strength (warp/weft) EN ISO 1421	250/220 daN/5 cm • 562/495 lbs/2 in
Tear strength (warp/weft) DIN 53.363	25/25 daN • 56/56 lbs

Reactions to fire

Rating - International fire certificate available, such as*	B-s2,d0 /EN 13501-1 Class A /ASTM E84 Group 1 /AS/NZS 3837 AS/NZS 1530.2 AS/NZS 1530.3 IMO A653
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Dimensions

Weight EN ISO 2286-2	620 g/m ² • 18.3 oz/sq. yd
Width	270 cm • 106.3 in (Kilimandjaro 7005-6642 also available in 135 cm • 53.1 in)
Rolls length	40 lm • 43.74 yd

Complementary information

Impact resistance EN 13964 annex D	Class 1A (Excellent after 36 impacts at 60 km/h)
Micro organism resistance ISO 846-A	Degree 0, excellent

Solar and light properties

	Kilimandjaro (White) 7005-6642	Lux (Translucent) 7005-52045
Visible reflection R _v EN 14501	90%	61%
Visible transmission T _v EN 14501	7%	35%
Internal Solar Factor G _{tot} ⁱ ISO 52022-3 (glazing D)	0.06	0.16

Management systems

Quality: ISO 9001 • **Environment:** ISO 14001 • **Energy:** ISO 50001

Certifications, labels, warranty

Smart Yarn
Technology

10-year warranty
for interior applications



* Contact us for latest certificate updates & validities

¹ Summarizes the group's CSR project focused on human, to align economic performance and positive impact.

Mechanical properties are average values with a +/-5% tolerance, variance of +/-10% for weight given.

The purchaser of our products is responsible for their application or transformation in relation to possible third party rights. The purchaser of our products is responsible for their installation in compliance with the standards, working practices and safety regulations of their destination country. Please refer to our warranty document with regard to contractual liability.

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The colors and textures presented are included for information only.