

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 sculpts 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

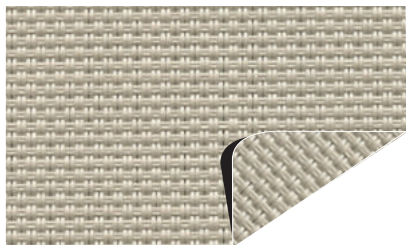


# Tenseo Comfort AW



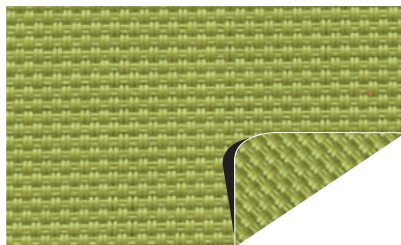
**Kilimandjaro**

**7005-6642**



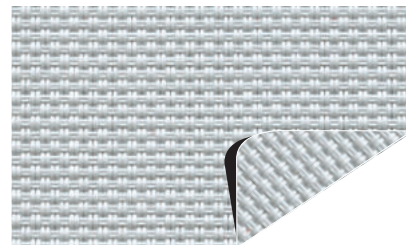
**Cotton**

**7005-50219**



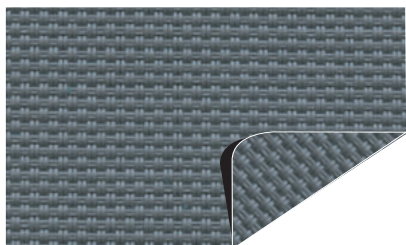
**Bamboo**

**7005-50221**



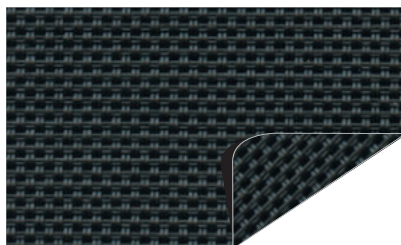
**Alaska**

**7005-6711**



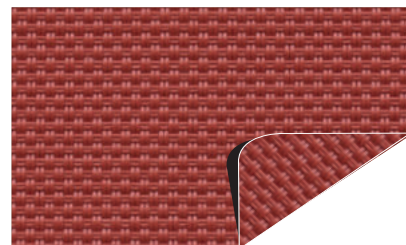
**Granite**

**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)



Tensiioned ceiling - Sports hall (NZ)



Tensiioned ceiling - Aqua centre (CH)

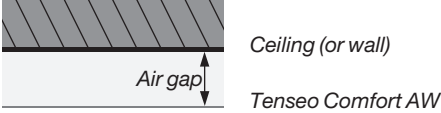
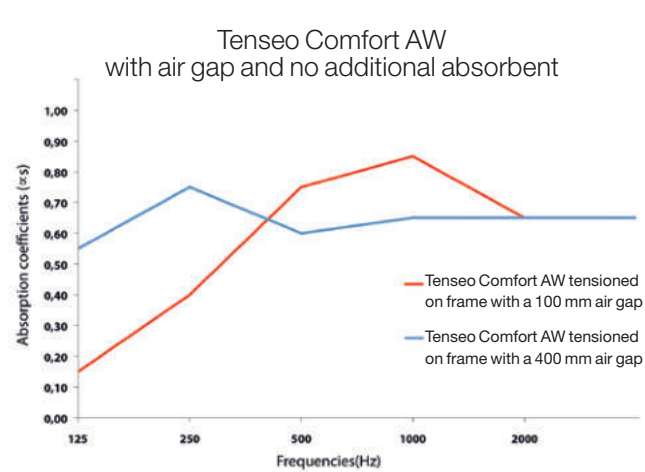


Ceiling & baffles - Restaurant (FR)

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 tensiioned Tenseo Comfort AW

Freely tensiioned 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.

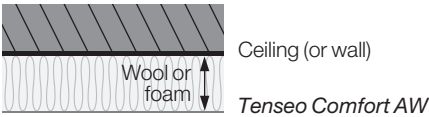


Absorption coefficient (ISO 354)

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.



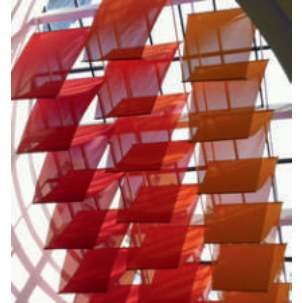
**Tensioned sails**  
Lightweight, durable architecture  
Solar protection under a glass roof



**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



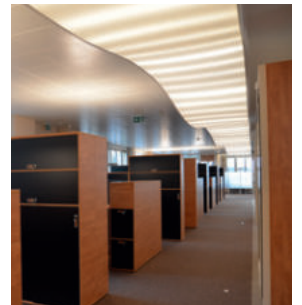
**Tensioned ceilings**  
Large flat or curved, continuous surfaces  
Quick installation and removal



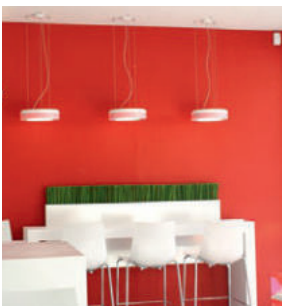
**Wall & ceiling panels**  
Custom dimensions, shapes and printing



**Behind openwork facing**  
Tensioned or stapled behind an openwork element



**Luminous ceilings**  
Acoustic objects for lighting based on Tenseo Comfort AW Lux



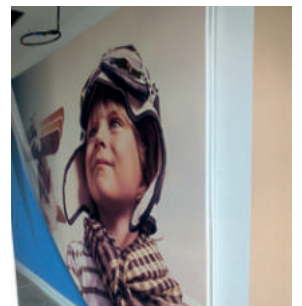
**Tensioned walls**  
Flat or curved, continuous, absorbent surfaces  
Printing or image screening



**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>B-s2,d0</b> /EN 13501-1 <b>B1</b> /DIN 4102-1 BS 7837 <b>Class 1</b> /UNI 9177 <b>Class A</b> /ASTM E84 <b>Group 1</b> /AS/NZS 3837 AS/NZS 1530.2 AS/NZS 1530.3 IMO A653	
Dimensions		
Weight EN ISO 2286-2	620 g/m² • 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 Rv EN 14501	90%	61%
Visible transmission Tv EN 14501	7%	35%
Internal Solar Factor G <sub>tot</sub> <sup>i</sup> 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

<sup>1</sup> 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.

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