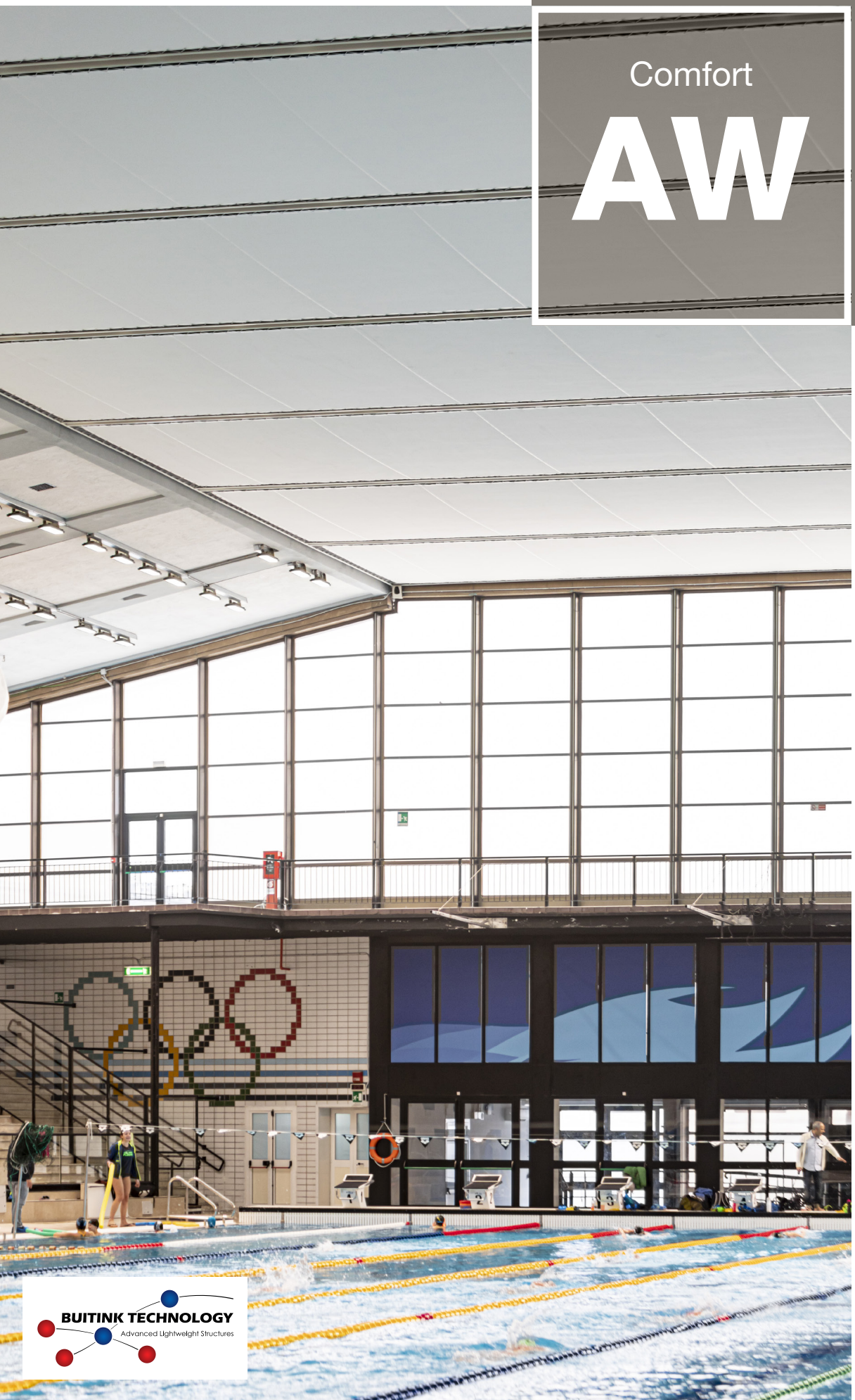
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architecture

# Tenseo

## Comfort

# AW



BUITINK TECHNOLOGY
Advanced Lightweight Structures

# 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).

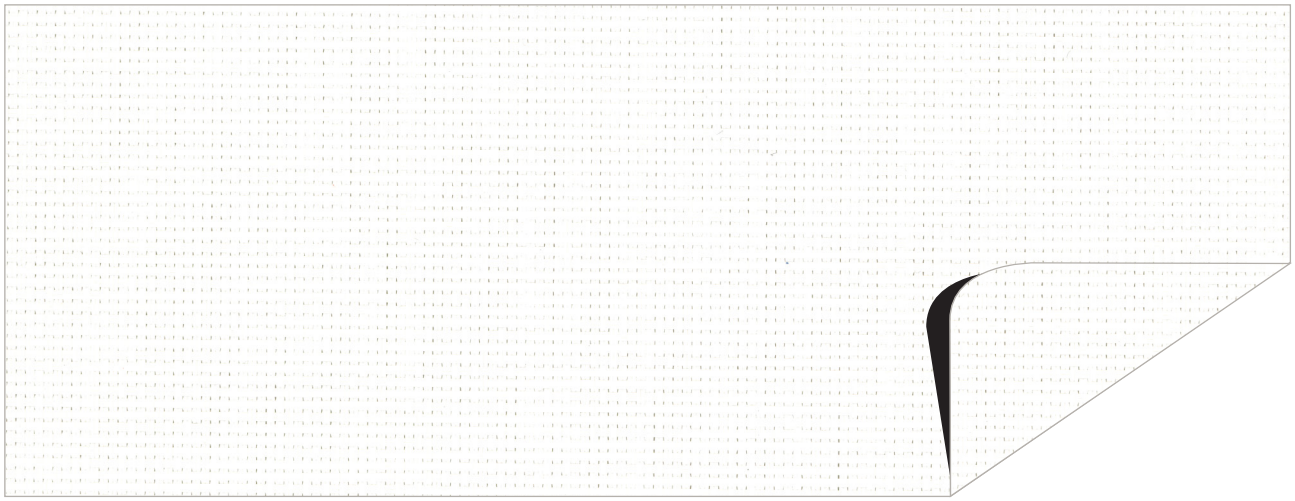
**Timeless colors:**
White reflects and prolongs the light, thereby optimising lighting. As a source of contrast, black absorbs the light and sculptures volumes. Soft and quiet, green and cotton colors evoke architectural materials: stone, concrete, steel, wood. Burst of color express the desire to highlight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





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

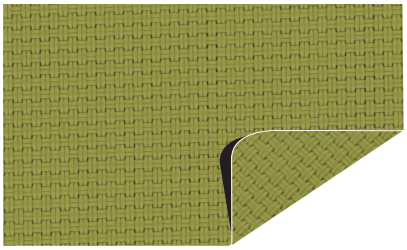
# Tenseo Comfort AW



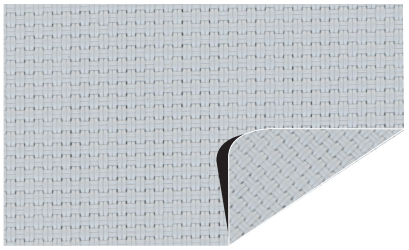
**Kilimandjaro** **7005-6642**



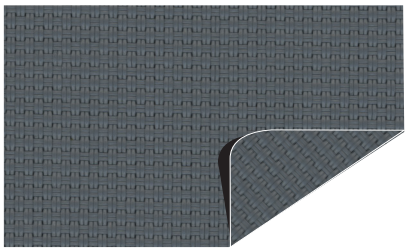
**Cotton** **7005-50219**



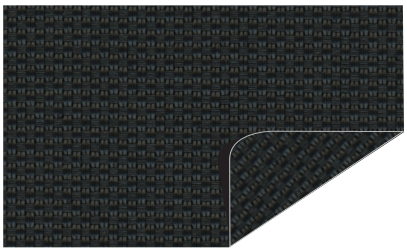
**Bamboo** **7005-50221***



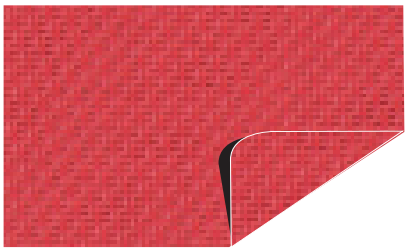
**Alaska** **7005-6711**



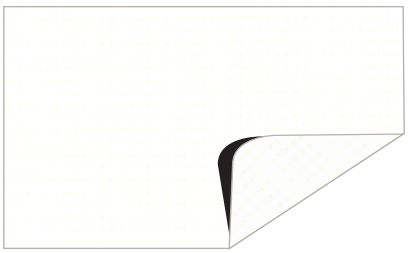
**Granite** **7005-50222**



**Odessa** **7005-6842**



**Cherry** **5011***

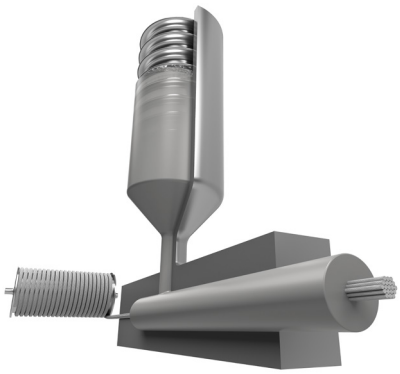


**Lux (translucent)** **7005-52045**

* Consult us for availability and MOQ
Other colors available on request

## 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)



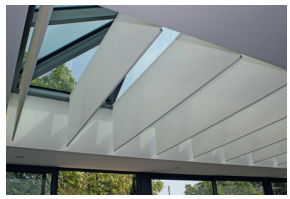
Ceiling & walls - Vaujany ice rink (FR)



Tensioned ceiling - Sports hall (NZ)



Tensioned ceiling - Aqua centre (CH)

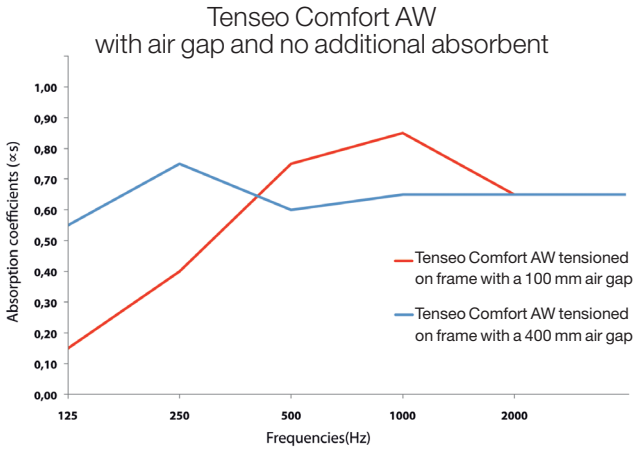


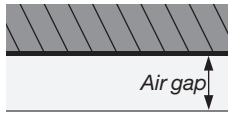
Ceiling & baffles - Restaurant (FR)

| | | | | |
|---|---|---|---|---|
| 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.



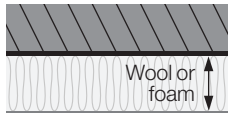

**Absorption coefficient (ISO 354)**

| 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 |
| **αw*** | **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 |
| **αw*** | **1.00** | **1.00** |
| **NRC*** | **0.95** | **1.00** |

αw: 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

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## Choose the installation system best suited to your project

Unlike conventional materials, the unmatched flexibility, lightness and finesse of Tenseo Comfort AW materials allow:

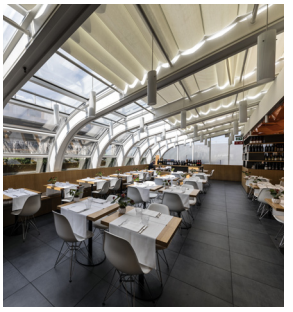
- unrestricted freedom of implementation,
- fulfillment of several needs: acoustic, design, light, solar protection, strength,
- fixed or moving lightweight acoustics for adapting to a need and optimising structural usage.



Tensioned sails

Lightweight, durable architecture

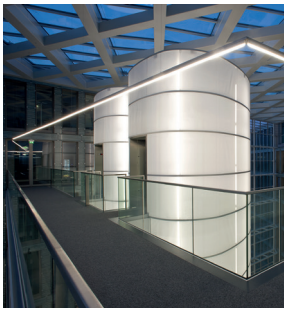
Solar protection under a glass roof



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

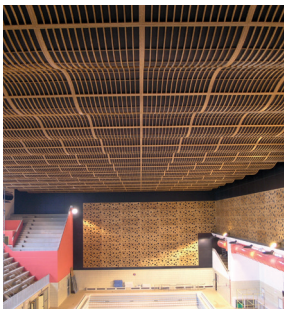
Large flat or curved, continuous surfaces

Quick installation and removal



Wall & ceiling panels

Custom dimensions, shapes and printing



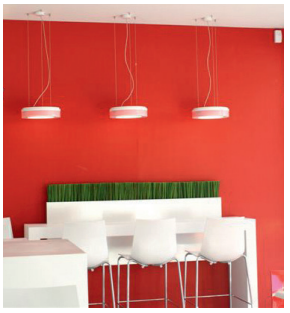
Behind openwork facing

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

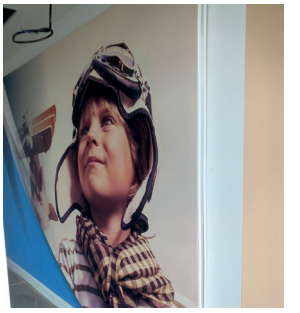
Projection screens



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)<br>EN ISO 1421 | 250/220 daN/5 cm • 285/251 lbs/in |
| Tear strength (warp/weft)<br>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<br>**Class A**/ASTM E84<br>**Method 2**/NFPA 701<br>CSFM **T19**<br>CAN ULC **S102** & **S109**<br>**IMO** A653 |

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

| | Solar and light properties | |
|---|---|---|
| | Kilimandjaro (White) 7005-6642 | Lux (Translucent) 7005-52045 |
| Visible reflection Rv<br>EN 14501 | **90%** | 61% |
| Visible transmission Tv<br>EN 14501 | 7% | **35%** |
| Internal Solar Factor $G_{tot}^{i}$<br>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.

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