BUITINK TECHNOLOGY
Advanced Lightweight Structures

BATYLINE

Aw & Aw Lux

Serge Ferrari

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Advanced Lightweight Structures

MAIN FEATURES

- Improves acoustic comfort
- Flexible, thin and lightweight
- Durable and robust
- Allows infinite creativity
- Conserves air quality
- 100% recyclable through Texyloop®

APPLICATIONS

For all types of building in new construction and renovation:

- Offices & retail
- Sports & leisure
- Health care & education
- Hotels & restaurants
- Industry, etc.

Adapted to bring comfort to public buildings

Acoustic efficiency, optimum well-being

Batyline Aw offers unique acoustic absorption performance for such a thin, lightweight material:

- reduces reverberation effect up to four-fold,
- contributes to a comfortable environment, improves hearing and reduces stress,
- Batyline Aw Lux translucent version combines acoustic comfort and natural light.

Structural and aesthetic durability: a high return on investment

Reliable and durable, no maintenance required

- Resistance to deformation, tearing, impacts and abrasion: > 4 t/ml,
- Ability to withstand moist and chlorine environments,
- Suitable for structures in seismic areas
- Clean and rapid installation, damage-free removal,
- Easy upkeep: does not attract dust and is easy to clean.

Lightness and shape control

To materialise every design

- Small elements or large unsupported spans; simple or complex shapes,
- Custom design: matt textured aspect, 8 colours including a translucent version,
- Digitally printed customization.

For eco-designed, healthy structures

Health & Environment

- Air quality conserved: Greenguard Gold and A + Certification,
- No fibre or particle emission to the atmosphere,
- 100% recyclable at end of life through Texyloop®,
- Low environmental impact: Life Cycle Assessments and Safety Datasheets available on request.

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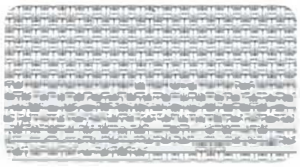
Timeless colours

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 colours evoke architectural materials: stone, concrete, steel, wood. Burst of colour express the desire to highlight the space.


Kilimandjaro 7005 - 6642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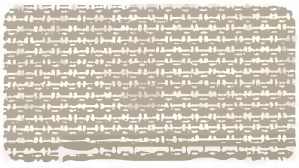
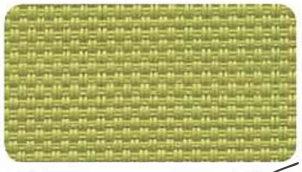
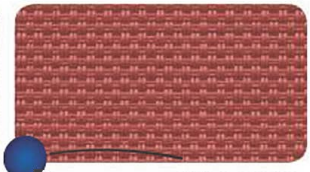
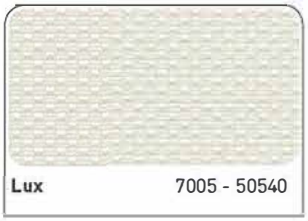
Granite 7005 - 50222


Odessa 7005 - 6842


Cotton 7005 - 50219


Bamboo 7005 - 50221


Red 7005 - 50224


Lux 7005 - 50540

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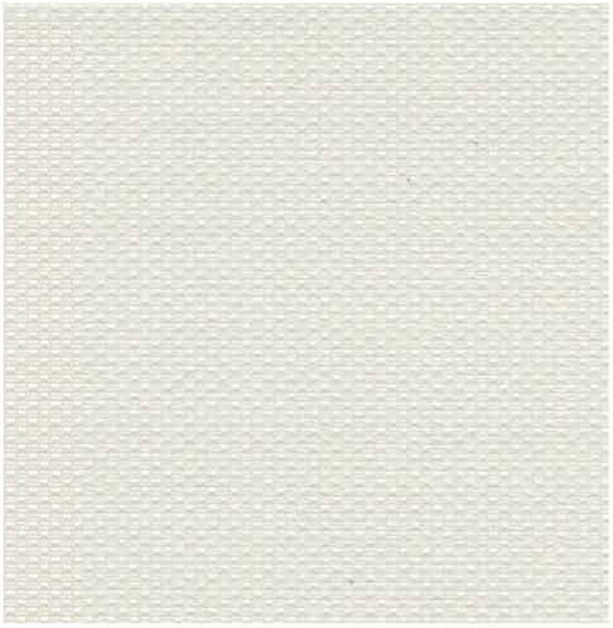
Other colours available on request (consult us)

> Place this page in front of a light so[illegible]e to witness Batyli[illegible]Aw's translucence and whiteness.


Kilimandjaro 7005 - 6642


Lux 7005 - 50540

NEW Batyline 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

Batyline Aw flexible, composite material has exceptional acoustic absorption performance characteristics.

Practical cases - Batyline Aw without additional absorbent

Reduction in reverberation time after Batyline Aw treatment
(Reports available on request)

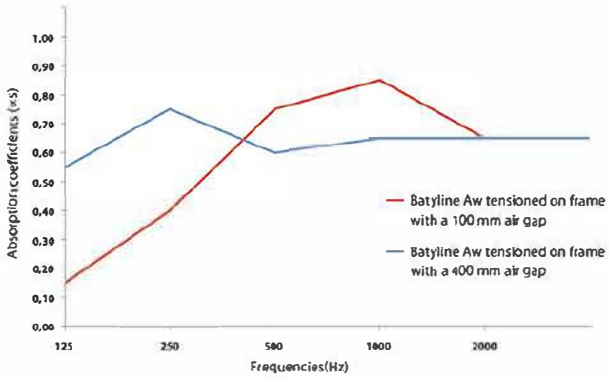
	Ceiling and walls Vaujany ice rink (FR)	Tensioned ceiling Sports hall (NZ)	Tensioned ceiling Aqua centre (CH)	Ceiling and baffles Restaurant (FR)
				
Before	7,7 s	6,9 s	4 s	3,11 s
After	1,8 s	2,5 s	1,6 s	0,87 s
Gain	**76,6 %**	**63,7 %**	**60 %**	**72 %**

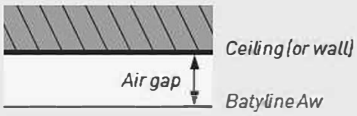
Simply tensioned Batyline Aw

Freely tensioned Batyline 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.

Batyline Aw with air gap and no additional absorbent



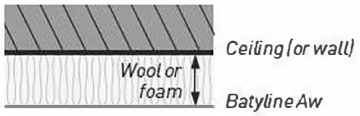


Absorption coefficient (ISO 354)

Freq. (Hz)	Batyline Aw + 100 mm air layer	Batyline 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**

Batyline Aw combined with an absorbent

- Batyline Aw can be combined with a conventional absorbent to meet specific needs absorption requirements.
- Batyline Aw therefore enhances the absorbent's performance and reduces the thickness of the complex.



Freq. (Hz)	Batyline Aw against 45 mm Rockwool (density 28 to 36 kg/m³)	Batyline 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
αw*	**1.00**	**1.00**
NRC*	**0.95**	**1.00**

αw: Weighted acoustic absorption coefficient
NRC: Noise reduction coefficient ASTM C243-90a
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 Batyline 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 velums

- 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 Batyline 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.

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Technical properties	BatylineAw		Standards
Weight	600 g/m²		EN ISO 2286-2
Width	270 cm (Kilimandjaro 6642 in 270 cm & 135 cm)		
Physical properties			
Tensile strength (warp/weft)	250/220 daN/5 cm		EN ISO 1421
Tear strength (warp/weft)	25/25 daN		DIN 53.363
Micro organism resistance	Degree 0, excellent		ISO 846 Method A
Extreme working temperatures	-30°C / +70°C		in static position
Flame retardancy			
Rating	**B1**/DIN 4102-1 • BS 7837 • **Class A**/ASTM E84 • AS-NZS 3837 • AS-NZS 1530.2 & 3 • IMO A653		
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	8 %	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, guarantees, recycling			

Batyline Aw has met the highest levels of Greenguard Gold and A+ certification, vouching for its very low volatile organic compound (VOC) emission level and thereby conserving excellent indoor air quality.

CE Marking compliance (EN 14716) tensioned ceilings

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 anytime. The buyer of our products is responsible for checking the validity of the above data.

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  www.sergeferrari.com

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- A quantified response to combat depletion of natural resources

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