



For sustainable, comfortable and smart buildings.

Discover SageGlass, the dynamic glass
of Saint-Gobain

 **SageGlass**[®]
SAINT-GOBAIN



ASHFORD CASTLE – CONG, IRELAND



SageGlass® is a dynamic glazing solution combined with an intelligent control system that takes into account occupant and climatic parameters to adapt its tint throughout the day.

SageGlass offers great thermal and visual comfort to the building's occupants, and the possibility to create buildings that are aesthetically pleasing, more respectful of the environment and easier to maintain

Comfort & well-being

The spaces we occupy have a great impact on our health and well-being. This impact is unfortunately often negative. Glare, lack of natural light, inadequate temperature are some examples of problems too often encountered.

With SageGlass, it is easy to **create biophilic designed and comfortable spaces**. Spaces with abundant natural light to maintain our circadian rhythm, that offer the soothing effect of a view of the outdoors, without excessive heat or unpleasant glare.



BOWIE STATE UNIVERSITY – BOWIE, USA

Oppressive glare.
Unbearable heat.
We've all been in rooms like this.
There can be no meetings here, no gatherings for your customers, students or staff. Traditional solutions would force you to use shades, eliminating outdoor views and access to natural light.



The dynamic glass' ability to change tint automatically transforms this space into a room you want to showcase. Now occupants of the Bowie State University (USA) are free to use the space for studying, learning and socializing, and architects can design the space as they see fit.



TOMBOLA HOUSE – SUNDERLAND, UK

“SageGlass met all our ambitions for the building from an aesthetic and biophilic perspective – as well as offering significant performance benefits in terms of energy use and comfort”

Paul Milner
Senior Architect at Ryder Architecture – Tombola House project (Sunderland, UK)



Connecting the built and natural environment

It would be a shame to deprive the customers of the Waves Lounge Bar in Neuchâtel, Switzerland of such a view and the pleasure it brings, by hiding it with blinds or curtains.

Sustainability

Sustainable buildings must meet a number of requirements, with energy savings at the top of the list. Dynamic glass can **reduce energy consumption in buildings** by an average of 20% compared to alternative high-performance façade solutions*.

Environmental labels such as WELL and BREEAM award credits for sustainable design and reduced energy consumption while maintaining occupant comfort, to which SageGlass glazing can contribute.



The Lambeth Civic Centre in London is BREEAM Excellent certified.



“SageGlass is a very energy-efficient solution that helped us obtain the BREEAM ‘Excellent’ certification, which assesses a building’s environmental, social and economic sustainability performance”

David Robert
Project Director, Cartwright Pickard – Lambeth Civic Centre

* Hilson Moran study, 2015. Contact us for more information.

Simplified construction & maintenance

Conventional solar protections generate significant operational costs (cleaning, maintenance) and must be replaced frequently, especially in the case of external protections. With SageGlass, **no particular maintenance is required**, which is especially useful for high buildings and skylight applications.

Designing a building with SageGlass simplifies construction, saves space and **reduces the weight of the façade structures**, since the intelligent glazing replaces interior and exterior solar protection. It also saves a lot of time and money for the implementation.



The 71above restaurant in Los Angeles (USA) is located on the 71st floor of the iconic U.S. Bank Tower and features breathtaking 360-degree views of the city. SageGlass was the solution to block the harsh Californian sunlight and heat to ensure the guests enjoy their meals, while keeping the view.



71ABOVE RESTAURANT - LOS ANGELES, USA



TIPEE - LA ROCHELLE, FRANCE

In La Rochelle (France), the salty atmosphere and the sea wind are causing recurrent damage to the exterior mechanical solar protection. Tipee, the leading technology platform for sustainable building, equipped its glass roof with SageGlass in order to free itself from maintenance.

Design & innovation

SageGlass is a remarkable innovation, protected by over 1000 patents. It offers architects, developers and real estate professionals a differentiating solution: the ability to design a dynamic façade that makes buildings **truly intelligent** and **architecturally distinctive**. No blinds or shading elements distract from the aesthetics of the building, while its comfort is improved. The building and its occupants can take full advantage of the views offered by its location.

Tombola House in Sunderland, UK and Millennium in Switzerland have chosen SageGlass for their elegant, sleekly designed buildings that preserve the view to the outdoors and enhance the comfort of their occupants.



TOMBOLA HOUSE – SUNDERLAND, UK



MILLENNIUM – CRISSIER, SWITZERLAND

“Each product selected for our building is an expression of our commitment to providing only the best. This was especially important for the selection of the glazing, as it is a central and visible element of the building. SageGlass Harmony embodies this commitment and will provide our occupants with an unparalleled level of comfort.”

Martin Schlienger
Millennium project team

Quantifiable effects on occupants' quality of life

A growing body of research points to the benefits of human-centered design in all areas:



- **Learning:** Daylight can improve student performance. For example, test scores can increase by 5-14% and learning is faster by 20-26% ¹.



- **Healing:** Views and daylight are known to aid in the healing process. Hospital stays can be reduced by 8.5% with outdoor views ¹.



- **Workplace Performance:** More than one-third of office workers do not have access to sunlight in the workplace, yet 90% of them express a need for it ². Studies have shown that employees can be 18% more productive with adequate daylight. Environments with ample natural light and outdoor views enhance creativity by improving both mental function and memory by 10-25% ¹.

With SageGlass, you can design buildings with natural light and all-weather views to create **high-value spaces**.

And it's not just theory! Feedback from the occupants of several buildings equipped with SageGlass shows that they are very satisfied with the comfort provided by the intelligent glazing. For example, the results of the survey conducted in 2019 (one year after the installation of SageGlass) on Ubisoft employees in Villeurbanne, France are unequivocal:

More than 85% of employees are satisfied or very satisfied with the positive impact of SageGlass dynamic glazing on their visual and thermal comfort, and 90% believe it contributes positively to their overall appreciation of the workspace ³.



¹ Productivity & Health Benefits. The Business Case for Green Building, World Green Building Council, 2013

² Study conducted by Amplitude Research, Inc. on behalf of SageGlass and Saint-Gobain among 400 employees in the United States between March 22 and April 1, 2016

³ More information is available at: <https://www.sageglass.com/en/visionary-insights/comfort-study-ubisoft>



Our range of dynamic glazing

SageGlass can be installed in **windows, facades, curtain walls** and **skylights** and is **compatible with all types of framing systems**. It is suitable for both new build and renovation projects, for example to bring an historical building up to energy standards without affecting its aesthetics.

To adapt to the specificities of each project, we have developed a complete range of dynamic glazing:



SageGlass®

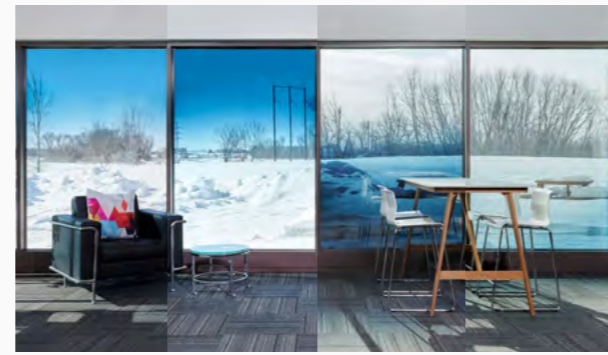
- Glare control without blinds or shutters
- Intelligent daylight management
- Maintain view and connection with the outside environment
- Contribution to environmental labels
- Automatic and manual control



SageGlass LightZone®

ALL BENEFITS OF SAGEGLASS WITH ADDITIONALLY:

- Precise glare and heat control
- Excellent indoor color rendering
- Natural light gain in spaces



SageGlass Harmony®

ALL BENEFITS OF SAGEGLASS AND SAGEGLASS LIGHTZONE WITH ADDITIONALLY:

- Elegant visual experience with smooth, seamless tint transitions
- Sophisticated & subtle gradient effect



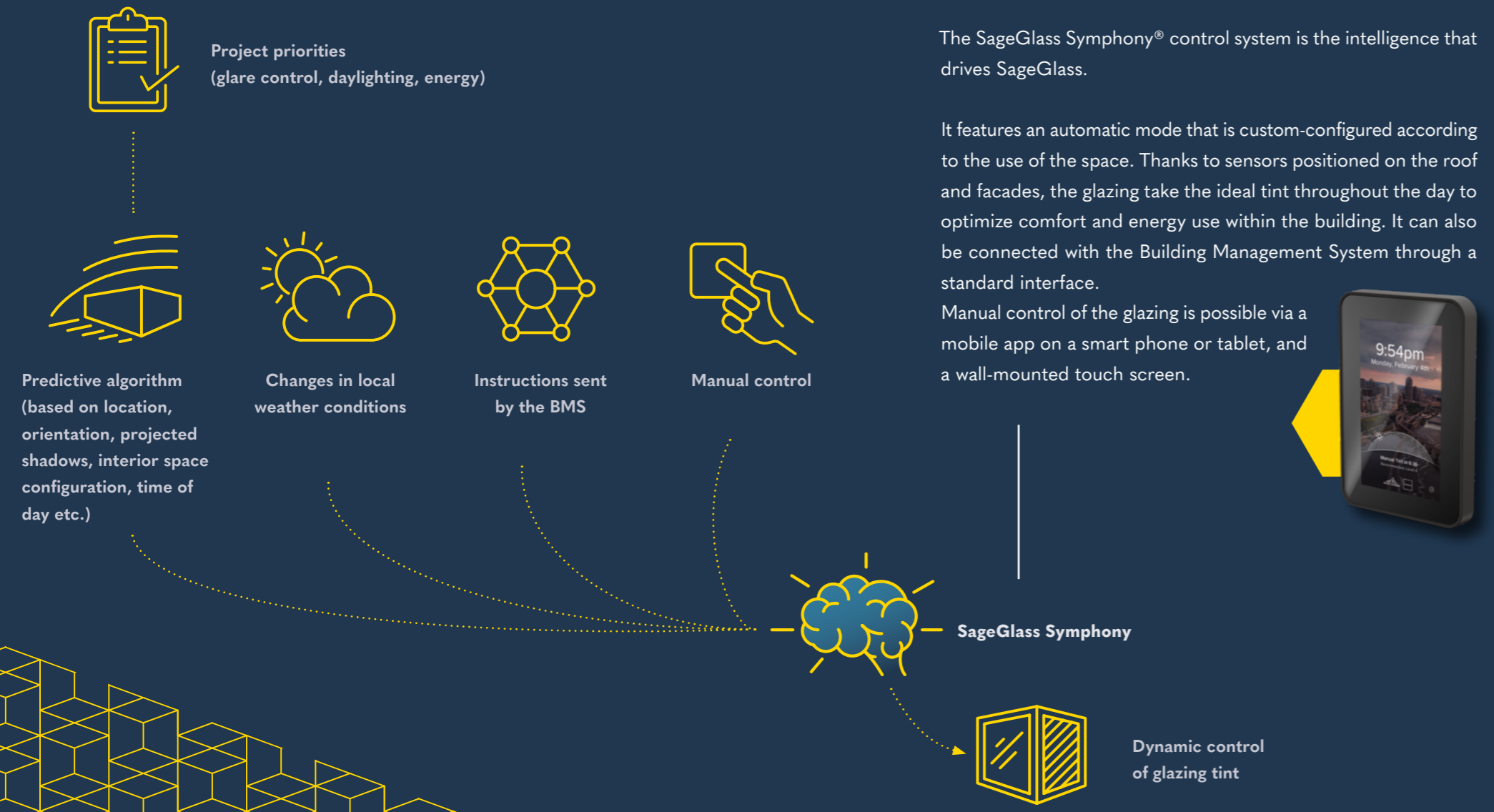
SAMMONS FINANCIAL OFFICES - USA

Our latest innovation, SageGlass Harmony, is capable of gradient tinting to let in just the right amount of light and block out the sun as needed, while maintaining excellent color rendition.



MILLENNIUM OFFICES - SWITZERLAND

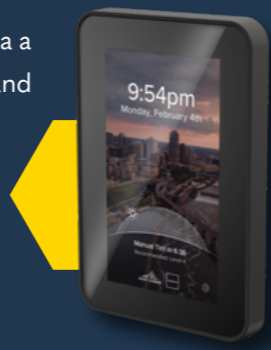
Our control system



The SageGlass Symphony® control system is the intelligence that drives SageGlass.

It features an automatic mode that is custom-configured according to the use of the space. Thanks to sensors positioned on the roof and facades, the glazing take the ideal tint throughout the day to optimize comfort and energy use within the building. It can also be connected with the Building Management System through a standard interface.

Manual control of the glazing is possible via a mobile app on a smart phone or tablet, and a wall-mounted touch screen.



Some technical characteristics

Our technology is compatible with double and triple glazing and can be combined with other glazing enhancements to meet the specific needs of each project in terms of acoustics, colors,, aesthetics and safety.

Our glass is available in many shapes: squares and rectangles, but also trapezoids, parallelograms and triangles.

The standard dimensions are around 1.7 × 3 m.

Light and heat are managed by the glazing thanks to 4 tint levels with the following standard characteristics:

Tint	Light transmission	Solar factor g value	Ug value (W/m².K)
Clear	60 %	0.38	1.1
Light	18 %	0.12	1.1
Mid	6 %	0.07	1.1
Full	< 1 %	0.04	1.1

Calculated values for a standard double glazing SageGlass

Our team will accompany you throughout the complete life cycle of the project, from the design phase to the commissioning of the system, and the training of the occupants.



BELLAVISTA EYE CLINIC – SWITZERLAND

Our clients speak about us

Watch our customer testimonials on YouTube and see how SageGlass helped them achieve their goals.



TOMBOLA



THE LUMINARY



BÜHLER



AMERICAN GEOPHYSICAL UNION

PHOTO CREDITS

- Saint-Gobain HQ: Laurent Kronental • Ashford Castle: Sean Conboy • Tombola: James Newton • Beaulac: E. Fransdonk • Lambeth Civic Centre: John Kees
- Típee: K. Khalfi • Ubisoft, Millennium, Bellavista: Adrien Barakat • Bühler: Faruk Pinjo • The Luminary; Jean Suitt

Why SageGlass?

1 000+
Installations

27+
Countries

1 000+
Patents

SageGlass® is the pioneer of the world's smartest dynamic glass. Electronically tintable SageGlass tints or clears automatically to optimize daylight levels while preventing heat and glare without the need for blinds or shades. SageGlass delivers superior comfort, enhances occupant well-being and saves energy. As part of Saint-Gobain, SageGlass is backed by more than 350 years of building science expertise that only the world leader in sustainable environments can provide.

Learn more about how SageGlass helps customers achieve their goals at [sageglass.com](https://www.sageglass.com).

To find a local product expert in your area, visit:

[sageglass.com/contact](https://www.sageglass.com/contact)



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