



A Guide to Smart Windows

What are Smart Windows?

SageGlass smart windows automatically tint and clear to control light and heat while maximizing daylight and views. When the sun is shining, SageGlass responds by tinting. When the sun isn't shining anymore, the glass clears.

Maximize Daylight & Views

Research shows that access to daylight and views of the outdoors offer significant health & productivity benefits including¹:

- 6.5%** Less Sick Leave
- 15%** Decrease in Absenteeism
- 10%** Increase in Cognitive Function
- 46** More Minutes of Sleep per Night

Thermal & Visual Comfort

Smart Windows keep occupants cool and comfortable all day without blocking views with traditional shading solutions.



Improve Thermal Comfort by Eliminating 91% of Solar Heat Gain



Reduce Glare without Mechanical Shading Solutions

Workplaces with smart windows promote increased happiness and well-being compared to "traditional" spaces with roller shades².



51% Decrease in Eye Strain



77% Decrease of Feeling Depressed

Energy Savings & Sustainability

Highlight your commitment to innovation and sustainability by reducing energy bills with energy savings up to 20%.

How does SageGlass Work?

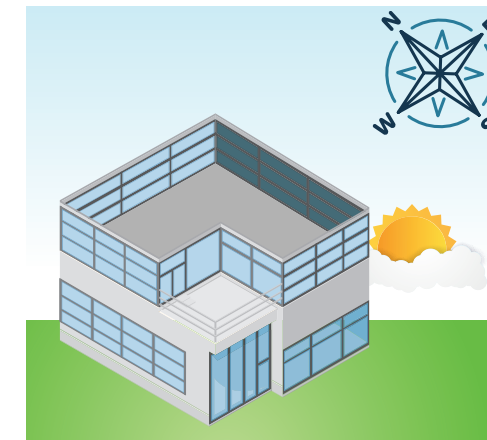
The glass is controlled by intelligent software that understands the weather, the position of the sun, building orientation, and other factors like occupancy and time of day, to maximize daylight and to ensure occupants stay comfortable year-round.

Your space may include SageGlass Classic, with 4 uniform tint modes ranging from Clear to Full Tint, or SageGlass Harmony®, which has 8 tint options including 4 unique “gradient” states.



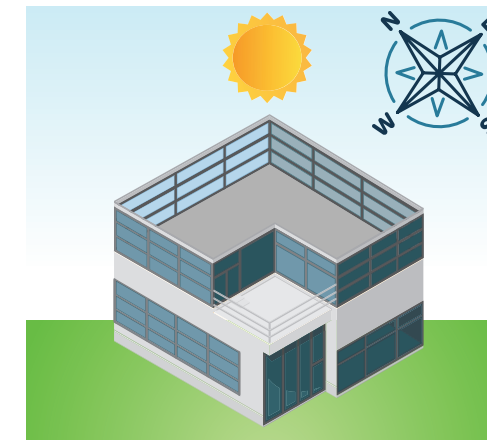
Experience a Day of SageGlass

While every building is unique, below is a generalized representation of how your SageGlass system will behave over the course of a typical, sunny day.



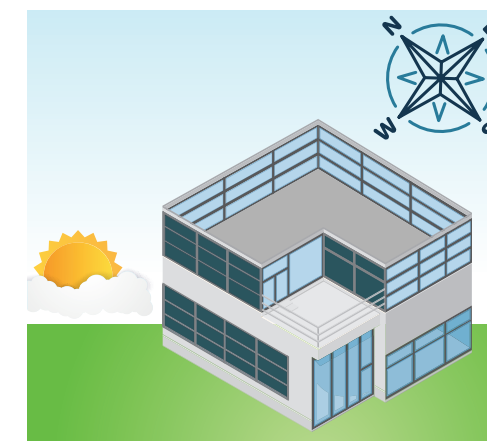
Sunrise

During the early morning hours, the sun's low position on the horizon can create significant glare on the east side of a building. SageGlass responds by fully tinting the east-facing windows, while the rest of the building remains clear or in a light tint state to maximize daylight harvesting.



Afternoon

As the sun passes overhead, windows facing east, south and west will respond based on real-time inputs and pre-defined system automations. Typically, south-facing windows are set to fully tint in order to provide maximum glare and heat control, while the east- and west-facing windows are set to intermediate tint states, allowing moderate glare and heat control while still allowing sunlight to enter.



Sunset

As the sun prepares to set, occupants seated near the west facade are subject to strong glare conditions. Typically, the west-facing windows are set to fully tint, while the rest of the building remains clear or in a light tint state to maximize daylight harvesting.



Frequently Asked Questions

Q. Why do I see different tint states in the same space?

A. For spaces that span 2 or more sides of a building, such as open offices or corner conference rooms, you may notice different tint levels. The system is designed to respond this way. For example, in the afternoon, the western side of a building will receive the most direct sunlight, while the North and East sides don't require as much solar and glare control.

Q. How do tint transitions work?

A. When the windows are transitioning between tint levels, you may notice the glass beginning to tint or clear from the edges, moving inward, until the pane is uniformly tinted or completely clear. There are a number of factors that influence the transition time such as size of window, exterior temperature and direct sun. On a cold winter day, the glass may take up to 25 minutes to transition.

Q. What are "zones" and how are they defined?

A. Each room has 1 or more "zones" which are predefined rows of individual windows. Each space, and its zones, are customized based on the needs of occupants in that room. For example, people working with monitors in an open office, need different levels of light and glare control than those meeting in a conference room.

Personal Control

Occupants can manually adjust the glass at any time to suit their individual needs via a wall-mounted touch panel or the SageGlass Mobile App. Check with your building manager for more information on the controls available in your space.

