



# DYNAMIC GLASS — FOR A — DYNAMIC WORLD



CLEAR  
TINT

LIGHT  
TINT

MID  
TINT

FULL  
TINT



SageGlass® changes tint automatically based on exterior conditions. But the real change isn't what the product does, but how it benefits you -- the **freedom** to design beautiful spaces, unconstrained by the sun; the ability to **innovate**; the opportunity to create better, more sustainable spaces for people to learn, create, heal and work. Keep reading to learn more about how dynamic glass improves the way people conceive, design and **experience** buildings.



# COMFORT & WELLBEING

The spaces we occupy have a great impact on us, and unfortunately that impact is often negative. The room you never want to be in because it's too hot or too cold. That moment at your desk when the glare hurts your eyes and distracts you from your purpose. However, spaces have the potential to create a positive impact. Spaces that invite us in, whenever we approach. Spaces that support our purpose for being there, instead of undermining it. Spaces with **ample natural light** and **outdoor views**, undisturbed by heat or glare. This is what SageGlass helps deliver.



Most tables are empty, with students huddled around the few tables that are undisturbed by excessive heat and glare.



With SageGlass, students are now able to sit where they wish, receiving all the benefits of natural light without the negative side effects of heat and glare. Students can now utilize the space according to its **design intention**.



**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 are free to use the space for studying, learning and socializing, and architects can design the space as they see fit.

BOWIE STATE UNIVERSITY  
MARYLAND, USA

BIBLIOTHÈQUE UNIVERSITAIRE  
LA ROCHELLE, FRANCE



There is **no substitute** for a view like this. It deserves to be seen all the time. Blinds or shades deprive people of **outstanding views**, and the enjoyment they provide, which disregards the design intent of the space.

# CUTTING-EDGE & BEAUTIFUL

Designers and owners alike want beautiful glass that complements their desired **design aesthetic**. SageGlass delivers this while also providing architects with something totally new: the ability to design with dynamic façade technology. This innovation **challenges designers** to think of novel ways they can innovate to set themselves, and their customers, apart.

The design fully capitalizes on the tremendous views afforded by the location. A striking modern aesthetic with dynamic technology tells the world the building, and the organization it houses, is **cutting-edge**.

**BELLAVISTA**  
SPEICHER, SWITZERLAND

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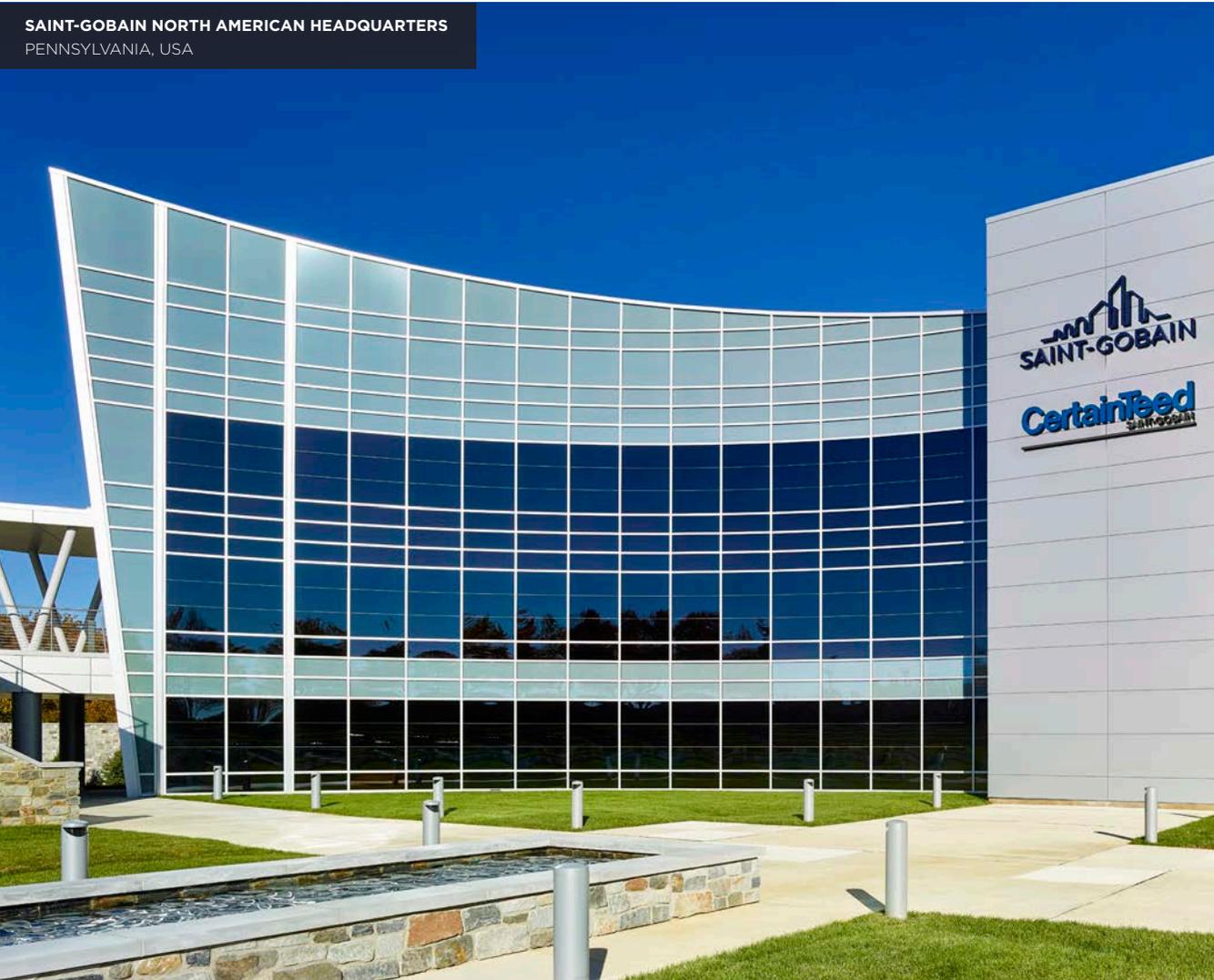
Dynamic glass opens new avenues of expression. Whether you want to celebrate the start of a new season, or support your brand, the possibilities are limited only by your creativity.



# SUSTAINABILITY

Sustainable buildings need to meet a number of requirements, but energy savings is near the top of the list. Dynamic glass can reduce building energy costs by **20% or more**. However, green labeling programs like LEED and BREEAM also provide credit for other features supported by dynamic glass, such as daylight and access to outdoor views. Sustainability goals are made more achievable by the use of dynamic glass.

SAINT-GOBAIN NORTH AMERICAN HEADQUARTERS  
PENNSYLVANIA, USA



Saint-Gobain's North American Headquarters incorporated SageGlass to help **reduce energy use by 30%** compared to typical code-built structures and to achieve LEED Platinum certification. This modern office was built as a 'Living Lab' to showcase the benefits of the Saint-Gobain family of companies' sustainable building materials, including SageGlass.

## IMPACTS YOU CAN MEASURE

The benefits of people-centric design can be seen in a large and growing collection of research. These data points tell a story of how spaces built for comfort and wellbeing make us better.



**LEARN:** Daylight and views of the outdoors can improve student performance. Test scores can increase from 5%-14% and learning happens 20%-26% faster<sup>2</sup>. More and more educational facilities recognize this link and see dynamic glass as an investment in their core mission.



**CREATE:** For universities and companies alike, ideas are currency. Environments with ample daylighting and outside views support creativity by improving both mental function and memory 10%-25%<sup>3</sup>. From Aristotle<sup>4</sup> to Steve Jobs<sup>5</sup>, great innovators have known that a connection to the natural world supports the creative process.



**HEAL:** Views and daylight have long been known to aid in the healing process. Florence Nightingale wrote 'aspect, view and sunlight, matters of first importance to the sick'<sup>6</sup>. Modern research has proven her right, showing hospital stays can be reduced 8.5% as a result of outside views<sup>7</sup>.



**WORK:** Today's workplaces suffer from a daylight deficit. More than one-third of office workers have no access to sunlight at their workspace, yet 90% want it<sup>8</sup>. Data has shown workers can be 18% more productive with proper daylight<sup>9</sup>. Unfortunately, blinds and shades tend to block at least 50% of total window area<sup>10</sup> for significant portions of the workday. Blinds and shades undermine the purpose of having windows to begin with, and workers suffer as a result. A new solution is needed that can allow daylight while controlling glare and heat simultaneously.



SageGlass®

# THE GLOBAL DYNAMIC GLASS TECHNOLOGY LEADER

The pioneer of the world's smartest electrochromic glass, SageGlass® is the ultimate connector between the built and natural environments. SageGlass tints on demand to optimize daylight, reduce glare and manage heat – all while maintaining unobstructed views of the outdoors. With SageGlass, architects and building owners can improve occupant comfort and reduce energy demand in buildings. As a wholly owned subsidiary of Saint-Gobain, SageGlass is backed by more than 350 years of building science expertise.

Learn more about how SageGlass helps customers achieve their organizational goals at [sageglass.com](http://sageglass.com). To find a local product expert in your area, visit [sageglass.com/contact](http://sageglass.com/contact).



**SWISS INTERNATIONAL SCHOOL**  
DUBAI, UAE



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<sup>1</sup> [livinglaboratory.com/downloads/SGNA-HQ-LEED-CERT-press-release.pdf](http://livinglaboratory.com/downloads/SGNA-HQ-LEED-CERT-press-release.pdf)

<sup>2</sup> Productivity & Health Benefits. The Business Case for Green Building, World Green Building Council, 2013

<sup>3</sup> Ibid

<sup>4</sup> Based on the quote attributed to Aristotle that "technology imitates nature" [www.joachimschummer.net/jslit/aristot.htm](http://www.joachimschummer.net/jslit/aristot.htm)

<sup>5</sup> Jobs was known to prefer to have meetings and brainstorming sessions while walking outdoors

<sup>6</sup> [www.inc.com/carmine-gallo/steve-jobs-practiced-this-1-habit-that-triggers-creative-ideas-according-to-neur.html](http://www.inc.com/carmine-gallo/steve-jobs-practiced-this-1-habit-that-triggers-creative-ideas-according-to-neur.html)

<sup>7</sup> Florence Nightingale's Notes on Nursing & Notes on Nursing for the Labouring Class, Victor Skretkovic, 2010

<sup>8</sup> Ibid

<sup>9</sup> Saint-Gobain and SageGlass commissioned Amplitude Research, Inc. to survey 400 team members across the U.S. between March 22 and April 1, 2016

<sup>10</sup> Ibid

<sup>11</sup> Based on OFEN project, Estia SA, Lausanne Switzerland 2014 and USGBC study of 55 buildings in Manhattan in 2013