SageGlass®

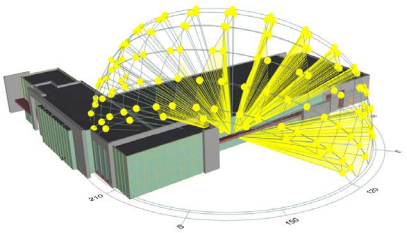
MODELING SERVICES

SageGlass offers a variety of simulation and modeling services that can provide customers critical insights on their projects and how electrochromic glass can improve performance. We do this through the use of leading software programs like Diva-for-Rhino, Grasshopper and Radiance. We also have proprietary capabilities that integrate electrochromic glass into these tools. Finally, we can accurately simulate the local thermal comfort impact of electrochromic glass through the use of UC Berkley's Advanced Thermal Comfort Model.

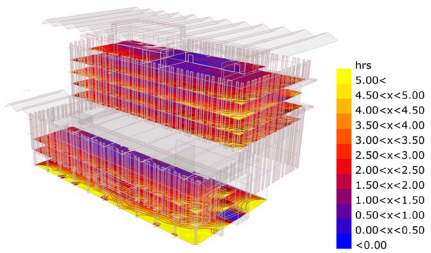
GLARE

We can provide different levels of glare simulation for customers' projects based on specific needs. These simulations can show locations and severity of glare risk that simple orientation-based assessments often miss.

SINGLE LOCATION: Glare risk can be quickly assessed for single viewpoints within a building by evaluating a sun path diagram.



COMPREHENSIVE: A color coded heat map can show both where glare will be present in a building and for how many hours of a typical day, whether looking at a single month or averaged over an entire year.



"Daylight and Glare modeling was helpful for us to determine if SageGlass was the right fit for our project."

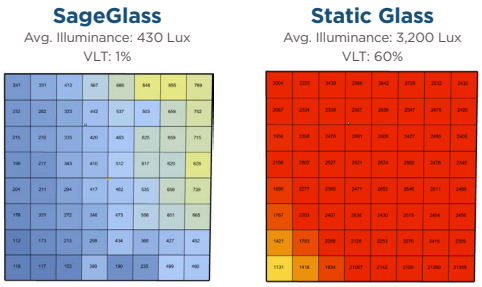
Jason Olive
RA, LEED® AP
ADM Group

SAINT-GOBAIN

DAYLIGHT

We simulate how the dynamic properties of electrochromic glass can help balance daylight in a space. This helps designers understand the impact of daylight on their buildings and occupants.

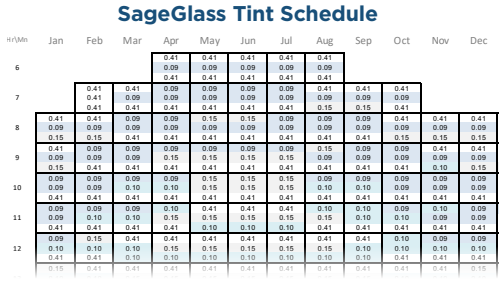
Light levels are depicted for a single room at single point in time with SageGlass at different tint states, showing how its dynamic VLT range can balance light levels based on need.



ENERGY

To help you estimate the potential energy savings SageGlass can deliver, we can support more detailed energy modeling by creating projected tint schedules which can be used as inputs to your calculation programs.

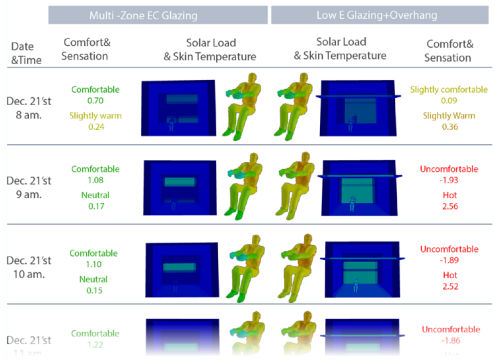
The light transmission and g-value of electrochromic glass are dynamic, so by simulating tint patterns for a calendar year we can derive building-specific light transmission and g-value figures that can help with accurate energy demand simulation.



THERMAL COMFORT

Thermal comfort is typically hard to quantify, but UC Berkley's modeling tool allows us to do exactly that. We can use this simulation program to evaluate the thermal comfort impact of electrochromic glazing vs. traditional glazing solutions. This modeling allows us to visualize, for specific projects, how electrochromic glass can improve occupant comfort in a quantifiable way.

Thermal comfort can be quantified and visualized, with green indicating comfort and yellow, orange and finally red indicating escalating levels of discomfort for building occupants.



READY FOR A PROJECT CONSULTATION?

SageGlass will make its Technical Solutions experts available to help you determine if any of these services are right for your project. Your local SageGlass sales representative will be happy to help you set up this consultation.

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