

## **Electrochromic Glass a breakthrough in energy-saving and “green” building**

In cooperation with Sage Glass IP Glass Technology introduces a technology without forcing architects to make a choice between a building design that maximizes visible light transmission and a design that minimizes the harmful effects of solar heat gain.

On the east and west elevations of buildings exterior sun shades don't work, and really what you are left with is using an interior blind/shade to block the glare (and block the view – which was the reason that the window was installed in the first place), whilst letting the heat into the building. SageGlass® electronically tintable glass provides a simple clean looking solution to heat and light control on all elevations, but especially the east and west, without losing your view to the outside.

SageGlass technology has undergone rigorous performance and durability testing both in-house and through independent third parties including the U.S. Department of Energy (DOE) and leaders in the glass fabricating and OEM skylight industry. SageGlass IGUs were the first and only products to pass the ASTM E-2141-06 (Standard Test Methods for Assessing the Durability of Absorptive Electrochromic Coatings on Sealed Insulating Glass Units).

### **How does the cost compare to low-e insulated glass?**

Because in most installations, SageGlass products eliminate the need for interior and exterior blinds and shading systems, glass-to-glass price comparisons are not appropriate. The reduction of other costs must also be considered given the unprecedented benefits provided by the SageGlass product. Until now, glass and its necessary solar control devices were two different things. With SageGlass products, the glass IS the solar control device. Moreover, SageGlass products conserve energy and reduce first costs (smaller HVAC systems, for instance, can be used in many situations). Building maintenance costs are also lower because HVAC systems run less often, and there is no need to replace or repair shades and blinds. Thus, when the higher initial cost of SageGlass glazing is balanced with the reduced facilities and operating costs, the result can be a neutral impact on the project budget and in some cases could create cost savings.

SageGlass units have been sold for residential and commercial applications in VELUX skylights since 2003. There are also a rapidly growing number of commercial projects where SageGlass products are installed.

In fact Sage Glass products are suitable for any type of building, however some applications are extremely favourable for Sage Glass, such as:

- Green or LEED buildings
- Owner occupied office space
- Museums and libraries
- Health care
- Atrium, skylights, and overhead glazings
- High-technology or image buildings
- Aviation facilities