

SageGlass®

LEED V4 WITH SAGEGLASS: FOR A SUSTAINABLE HABITAT



*Saint-Gobain Habitat Lab,
Milan, Italy
LEED Platinum certified*



Gain LEED points with SageGlass

Saint-Gobain's dynamic glass SageGlass greatly helps achieving LEEDv4 certification as it influences 5 of the 9 credit categories. Let's discover together how and why.

This brochure is based on the "LEED v4 – Building Design + Construction (BD+C) for New Construction" rating system.



LEED® with SageGlass



SUSTAINABLE SITES

Light pollution reduction

If SageGlass is in its tinted states ($\leq 6\%$ light transmittance) at night, light trespass is dramatically reduced, preserving the sky and all nocturnal animals and plants.

1 point*



ENERGY & ATMOSPHERE

Optimize energy performance

More than 30% of a building's energy goes out the window, literally. Not with SageGlass glazing. By adapting to the external climatic conditions and occupant's needs, SageGlass minimizes energy use by reducing heating loads in winter, air conditioning in summer and electrical lighting all year long.

18 points*



3.0 University Place, Philadelphia, Pennsylvania, U.S.
The world's first commercial office building pre-certified LEED v4 Platinum



MATERIAL & RESOURCES

Building life-cycle impact reduction (Option 4 – whole building LCA)

To follow the stringent environment engagement of its holding company Saint-Gobain, SageGlass has gone through a Life Cycle Assessment process, which results are available under an Environmental Product Declaration (EPD) verified by an independent third party.

3 points*

Building product disclosure and optimization - Environmental Product Declarations

Sharing the ambitions of the Saint-Gobain Group regarding Environmental, Health & Safety topics, SageGlass has gone through a Life Cycle Assessment process, the results of which are available under an Environmental Product Declaration compliant with international standards as required by LEED and verified by an independent third party.

2 points*

Building product disclosure and optimization - Material ingredients

Option 1 – Reporting: SageGlass is covered by a complete Health Product Declaration and a DECLARE® label which provides a transparency reporting of the material ingredients and potential health hazards contained.

2 points*

Option 2 – Optimization: SageGlass does not contain nor release Substances of Very High Concern (SVHC) under the terms of REACH appearing on the list of candidate substances or subject to authorization, in concentrations higher than 0.1% in weight.

* Maximum possible points to which SageGlass can contribute. Note that the number of points achieved by a project is influenced by a variety of other factors, such as building type and size and the configuration of all the other elements of the building, in addition to glass choice.

** Every year, Saint-Gobain also publishes its Corporate Social Responsibility report, which is based on the GRI (Global Reporting Initiative) framework. In this report, Saint-Gobain details its environmental policy, including supply chain subjects.



INDOOR ENVIRONMENTAL QUALITY

Thermal comfort

Through its efficient insulation and dynamic solar control properties, SageGlass contributes to creating thermally comfortable environments both in winter and summer. SageGlass can particularly help to reduce thermal discomfort due to direct sunlight exposure. Note that SageGlass should be mounted in a high performance airtight framing system with good insulation properties. Triple pane configuration options are also available for higher insulation performance.

1 point*

Daylight

By tinting or clearing, SageGlass regulates the level of daylight entering the space as a function of the external light conditions and occupant's needs. SageGlass thus offers the possibility of designing with more glass to meet the daylight autonomy targets, while ensuring that the space also meets the targets for minimizing over-lighting and glare control, in all cases without compromising energy performance.

3 points*

Quality views

SageGlass enables the use of more glass to help achieve a direct line of sight to the outdoors for the occupied spaces, without compromising energy performance and comfort. In addition, SageGlass is always transparent, even in its darkest state, so you can always enjoy the view through the glass and stay connected to the outside.

1 point*

Acoustic performance

Traffic, work, loud music ... all these noises affect the daily quality of life, and even human health. SageGlass can help reduce this exterior noise and brings comfort by combining two panes of glass of different thickness, or adding a special acoustic laminate specifically designed to enhance sound insulation. Note also that the glass should be mounted in a high performance airtight framing system with good acoustic properties. Moreover, SageGlass removes an additional source of noise and disturbance for the occupants, as it replaces blinds and mechanical shades which are usually noisy.

1 point*



INNOVATION

5 points*

SageGlass is a key asset for achieving exemplary level of performance in terms of:

- Improved well-being and comfort for the building's occupants, without energy penalty. The SageGlass system provides designers an advanced tool to simultaneously manage daylight, glare, thermal comfort and energy use. Control can be automated, with the option of manual override and, if desired, integrated into the building management system.
- Reduced cleaning and maintenance, due to the elimination of shading systems and moving parts. The cleaning and maintenance of SageGlass system is the same as standard glass.
- Reduced damage to interior materials (carpets, wall coverings, valuable artwork etc.) and associated lower replacement frequency, due to the fact that in its tinted state SageGlass blocks 99% of the solar radiation that causes fading.
- Reduced environmental footprint, thanks to the elimination of mechanical shading systems, smaller HVAC systems and lower equipment power usage.



University of Miami's Frost School of Music, Miami, Florida, U.S.
LEED Platinum certified

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Saint-Gobain, a key partner for sustainable construction

For many years, Saint-Gobain has been involved in local efforts to promote sustainable buildings by joining Green Building Councils (GBCs). Today we are actively involved, both locally and globally:

- Member of the Corporate Advisory Board of the World GBC,
- Partner of the European Regional Network,
- Platinum member of the US GBC,
- Member of more than 30 national GBCs worldwide.



Disclaimer

This brochure only provides an indication on the possible credits which SageGlass could contribute to in relation to a LEED rating system. It is intended as a guide in the choice of appropriate glazing in relation to the LEED credit rating system and has no binding value. The LEED credit rating of a project is influenced by a variety of factors, such as the type of building, configuration of all the other elements of the building in addition to the glass, final configuration of the glazing itself, etc... The final rating is subject to the performance of a LEED assessment as per the LEED methods and procedures available on their site. It is the user's responsibility to choose the appropriate building environmental assessments methods destined to ensure that the building meets regulatory requirements at national, local or regional level.

Chabot College, Hayward, California, U.S., LEED Platinum certified



*Saint-Gobain North American HQ,
Malvern, Pennsylvania, U.S.
LEED Platinum certified*

Look Again at SageGlass

SageGlass is the pioneer of the world's smartest dynamic glass and is transforming the indoor experience for people by connecting the built and natural environments. Electronically tintable SageGlass tints or clears on demand to control sunlight and prevent heat and glare without the need for blinds or shades. SageGlass dramatically reduces energy demand and the need for HVAC by blocking up to 91 percent of solar heat. 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.

Get in Touch

Connect with us to learn more about the many ways you can receive more information.

SageGlass Europe & Middle East
Vetrotech Saint-Gobain International AG
Switzerland
+41 (0)31 336 81 17
europe@sageglass.com
www.sageglass.com



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