

SageGlass®

# BREEAM WITH SAGEGLASS® FOR A SUSTAINABLE HABITAT



## Gain BREEAM points with SageGlass®

5 of the 10 categories of BREEAM may be boosted by using Saint-Gobain's dynamic glazing SageGlass® in the building design. For some categories, the benefits are quite obvious, but for others you'll be surprised! Let's discover together just how great an asset our dynamic glass can be for this certification.

**BREEAM®**

This brochure is based on the "BREEAM international New Construction 2016" rating system

  
SAINT-GOBAIN

# BREEAM with SageGlass®



HEALTH AND WELL-BEING

13 credits\*

## HEA 01 Visual comfort

The benefits of daylight and external views on human health and well-being have been demonstrated by numerous scientific studies. Thanks to its variable tint, SageGlass® enables to maximize daylight provision under any weather condition while controlling glare, thus ensuring visual comfort without compromising energy performance. SageGlass® also offers a permanent external view as it always remains transparent.

## HEA 04 Thermal comfort

Through its efficient insulation and dynamic solar control properties, SageGlass® contributes to create thermally comfortable indoor 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 airtight framing system with adequate insulation properties. Entire sections of SageGlass® windows, just specific windows, or individual zones within a single pane of SageGlass® can be tinted according to occupants and spaces requirements, through automated or occupant control.

## HEA 05 Acoustic performance

Traffic, work, loud music ... all these noises affect the daily quality of life, and even human health. To help reduce this exterior noise, SageGlass® is available as double or triple glazing. Sound insulation properties can also be enhanced by combining two panes of glass of different thickness or adding a special acoustic laminate. A high quality airtight frame should be used for optimum performances. Moreover, silent SageGlass® replaces blinds and mechanical shades which are an active source of noise.

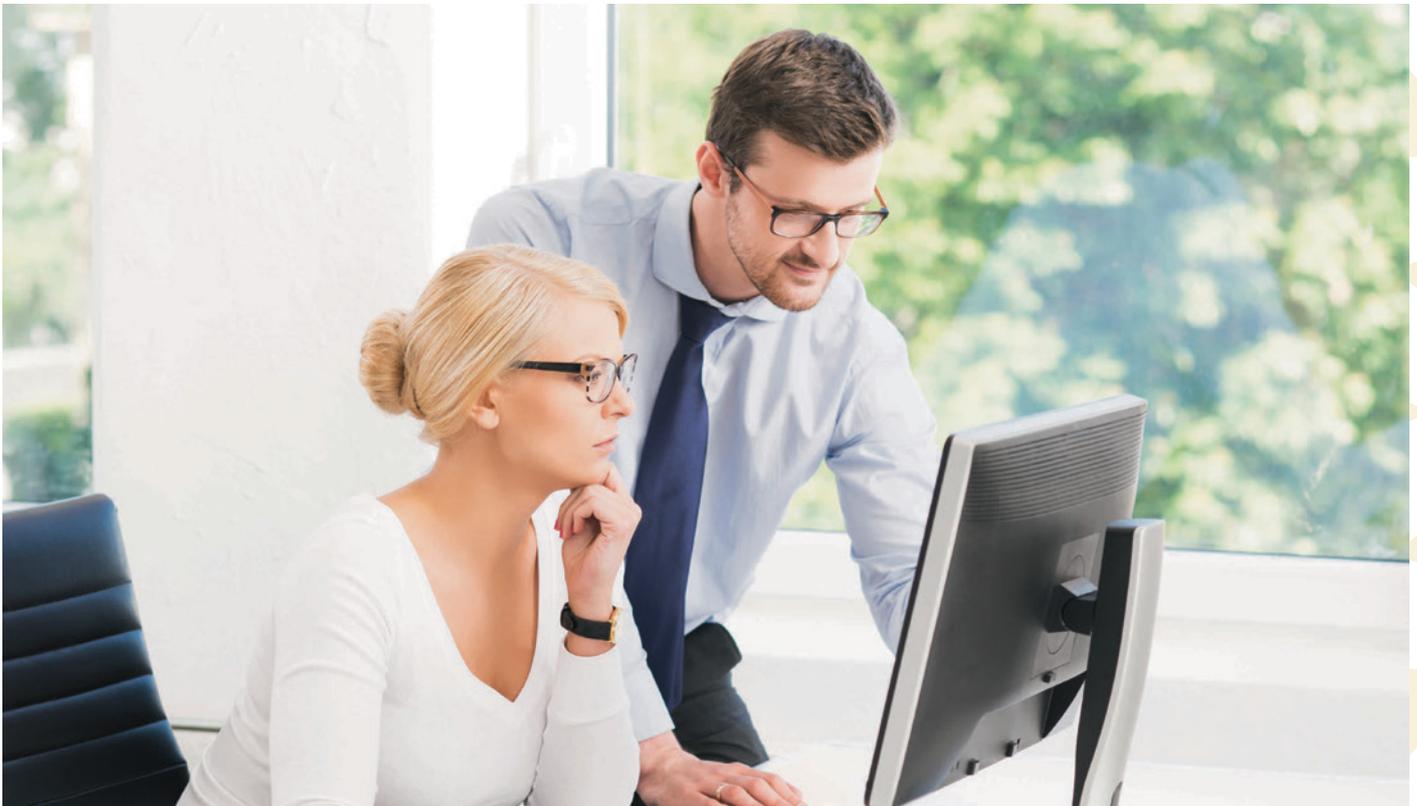


ENERGY

15 credits\*

## ENE 01 Reduction of energy use and carbon emissions

More than 30% of a building's energy goes out the window, literally. Not with SageGlass®. 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.





## MATERIALS

6 credits\*



## INNOVATION

10 credits\*

### MAT 01 Life-cycle impacts

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.

SageGlass® is a key asset to achieve exemplary level of performance in terms of:

- Reduced environmental footprint, thanks to reduced energy needs, smaller HVAC systems required and lower equipment power usage.
- Reduced cleaning and maintenance, due to the absence of shading system and moving part constituting the SageGlass® system.
- Lessened damage to interior materials (carpets, wall coverings, valuable artwork etc.) and associated lower replacement frequency, due to the fact that SageGlass® blocks 98% of the solar radiation that causes fading.
- Improved well-being and comfort brought to building's occupants, without energy penalty. SageGlass® system includes advanced tools to manage daylight, glare, thermal comfort and energy use at the same time. Control can be automated, with the option of manual overrides or fully manual.



## MANAGEMENT

4 credits\*

### MAN02 Life cycle cost and service life planning

When considering the life cycle costs of the building, not only does SageGlass® impact on the construction costs, but it also impacts on the operating and maintenance costs. Indeed, SageGlass® enables to manage daylight and heat, without the need of additional blinds. It allows savings on the building's energy needs, while no special cleaning and maintenance is needed.

In addition, SageGlass® dynamic glazing is a revolutionary technology resulting from more than 20 years of innovative research. It is thus a good candidate for an Approved Innovation Credit.





SageGlass®

## 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.



WORLD GREEN BUILDING COUNCIL



### Disclaimer

*This brochure only provides an indication on the possible credits which SageGlass® could contribute to in relation to a BREEAM rating system. It is intended as a guide in the choice of appropriate glazing in relation to the BREEAM credit rating system and has no binding value. The BREEAM 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 BREEAM assessment as per the BREEAM 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.*



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## 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.

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