

SGG PLANICLEAR®

A new standard in clear glass

SGG PLANICLEAR

Normal Clear Glass

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A strong relationship with



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General description

Since years, Saint-Gobain Glass proposed **sgg PLANILUX®** as high quality clear Glass to its customers. Continuing its leadership, Saint-Gobain Glass now brings to its customers a new standard in Clear glass : **sgg PLANICLEAR®**. This Glass, with lower iron content, will be launched in September across Europe (all SGG Floats are normalized). Its improved Aesthetics/Optics bringstrue advantages on all segments of the market.

Performance comparison of uncoated products.

| SGG PLANICLEAR® | | | | | | | | | | | |
|-----------------------------|----|------|------|------|------|------|------|------|------|------|------|
| Thickness | mm | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 15 | 19 |
| Visible Parameters | | | | | | | | | | | |
| TL | % | 91 | 91 | 91 | 90 | 90 | 89 | 89 | 88 | 87 | 86 |
| Energetic Parameters | | | | | | | | | | | |
| TE | % | 89 | 88 | 87 | 86 | 85 | 83 | 81 | 79 | 77 | 73 |
| AE | % | 3 | 4 | 5 | 6 | 7 | 10 | 12 | 14 | 16 | 20 |
| Solar Factor g | | 0,90 | 0,89 | 0,88 | 0,87 | 0,87 | 0,85 | 0,84 | 0,82 | 0,80 | 0,78 |

| SGG PLANILUX® | | | | | | | | | | | |
|-----------------------------|----|------|------|------|------|------|------|------|------|------|------|
| Thickness | mm | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 15 | 19 |
| Visible Parameters | | | | | | | | | | | |
| TL | % | 91 | 90 | 90 | 90 | 89 | 88 | 88 | 87 | 86 | 83 |
| Energetic Parameters | | | | | | | | | | | |
| TE | % | 88 | 86 | 85 | 83 | 82 | 79 | 76 | 72 | 69 | 62 |
| AE | % | 4 | 6 | 7 | 9 | 11 | 14 | 17 | 21 | 24 | 32 |
| Solar Factor g | | 0,89 | 0,88 | 0,87 | 0,85 | 0,84 | 0,82 | 0,80 | 0,77 | 0,75 | 0,70 |

Residential

Windows provide for an energy balanced housing with better daylight and better aesthetic.



sgg PLANICLEAR® offers a new lever to match with the current and the future energy balanced houses. When combined with **sgg PLANITHERM®** product range, **sgg PLANICLEAR®** allows the windows to provide excellent thermal insulation (Ug) whilst improving solar heat gains (g) to reduce heating costs.



sgg PLANICLEAR® also contributes to push up the level of Light Transmission (LT) in windows to favor natural daylight resulting in increasing comfort while reducing artificial lighting needs.



The more neutral color of **sgg PLANICLEAR®** helps to better integrate windows in today houses. The view outside is more natural and the yellowish aspect from exterior is limited.



The table below illustrates the Glazing performances for typical configurations with **sgg PLANICLEAR®** as glass Panes

| Composition (mm) | | 4-16-4 | 4-16-4 | 4-14-4-14-4 |
|-------------------|----------|--------------------|-------------------------|--------------------|
| External Pane | | sgg PLANICLEAR® | sgg PLANICLEAR® | sgg PLANICLEAR® |
| Central Pane | | | | sgg Planitherm® XN |
| Internal Pane | | sgg Planitherm® XN | sgg Planitherm® Total + | sgg Planitherm® XN |
| Luminous Factors | TL | 82% | 81% | 74% |
| | RL Text | 12% | 12% | 16% |
| Solar Factors | g | 0,65 | 0,73 | 0,56 |
| Coef. Ug (Ar 90%) | W/(m².k) | 1,1 | 1,2 | 0,6 |

Values calculated according EN410-2011 & EN673-2011 Standards with 90% Argon gas filling

Façade

Since a number of years there is a clear trend in design of commercial façades for transparency, clarity and more neutral colored glazing solutions.

Saint-Gobain Glass is paying tribute to this increasing market demand for a clearer substrate in making the new **sgg PLANICLEAR®** the standard substrate for high selective, high performance and all classic solar control coatings such as **sgg COOL-LITE® XTREME, SKN, KNT** and **ST** ranges or **SGG ANTELIO**.

The clear advantages coming with this new clear substrate are obvious : more daylight, more neutral colors and reduced absorption.

Interior

Improved transparency

With higher light transmission than traditional glass, Planiclear helps create bright interiors, especially when glass is used as a partition. The high clarity of Planiclear is very noticeable in thick applications – whether monolithic or laminated: partitions, interior doors, shower enclosures, shop windows, etc.



A slightly bluish tint

Its very slightly bluish tint highlights the visible decorative elements on board: table tops, shelves, or counters for example.



Better colour rendering

Its increased transmission neutrality offers good colour rendering, which is highly valued for creating shop windows (commerce, museography, furniture, etc.).



Planiclear is ideal for applying lacquers, enamels, or designs in white and pastel colours, as it will not distort the colours.

Product Range

sgg PLANICLEAR® is available and in stock September 2014:

- Jumbo size (PLF) 6 000 x 3 210 mm , DLF 2250 x 3210 mm , DLF 2000 x 3210 mm...
- Thicknesses: 2.9 / 3.9 / 5.9 / 8 / 10 / 12 / 15 / 19...mm
- All transformed product range available (Coated, Laminate, sand Blasted, tempered, etc..)

Characteristics and Performances of SGG product Range with **sgg PLANICLEAR®** are available with CALUMEN II (certified software) version 1.2.9

Certification& CE Marking

Certification of SGG Product range with **sgg PLANICLEAR®** by IFT Rosenheim and UBAtc.

DoP can be downloaded from CE marking website after Sept 1st: <http://www.saint-gobain-glass.com/ce>