



# SGG PLANITHERM® XN SGG PLANITHERM® XN II

*Get the best of  
Energy Efficiency  
and Light*



February 2014. Design: www.niyati.com; Image Credits: BAUMANN Wintergarten GmbH, Stockheim (Photo: Stefan Diller);  
Image Credits shutterstock: photobank.ch

Your personal contact



A strong relationship with



**SAINT-GOBAIN GLASS FRANCE**  
Département Marketing  
BP 30102  
60777 Thourotte cedex

[www.saint-gobain-glass.com](http://www.saint-gobain-glass.com)  
[Glassinfo.fr@saint-gobain.com](mailto:Glassinfo.fr@saint-gobain.com)

Saint-Gobain Glass Climate

The future of habitat. Since 1665.

# SGG PLANITHERM® XN

# SGG PLANITHERM® XN II

Get the best of Energy Efficiency and Light

## Highlights

### Energy Efficiency



Energy costs raise continuously and with them the importance of energy-efficient building design. The new SGG PLANITHERM® XN is the perfect solution because it combines highest level of energy efficiency and transparency.

On one hand it reduces noticeable the energy consumption, heating costs and as a consequence the CO<sub>2</sub> emissions. On the other hand, it provides a comfortable indoor climate even in winter, thanks to the effective use of sunlight.

### Daylight Comfort



SGG PLANITHERM® XN creates a new standard for the daylighting and improves the well-being and lower the demand for artificial light.

Simply, SGG PLANITHERM® XN reaches the highest level of light transmission in a triple glazing unit up to 74%, and, up to 82 % in double glazing.

### Aesthetics



SGG PLANITHERM® XN has a highly neutral aesthetic appearance; the colour rendering in transmission and reflection is very high.

### Winter Comfort



The very low Ug-value of up to 0.5 W/m<sup>2</sup>K reduces the losses of heat to a minimum. Therefore, even in winter and close to the glazing, the temperature is always comfortable.

### Possible Combinations:



SGG PLANITHERM® XN can be combines with others functionalities, namely

- SGG BIOCLEAN to get an easy maintenance glazing



- SGG STADIP SILENCE to improve the acoustic comfort



- SGG STADIP PROTECT to get a safety/security glazing

To complete the offer, a 'to be tempered' version SGG PLANITHERM® XN II is also available, with the same level of performances.

## Applications

New SGG PLANITHERM® XN has been developed for a residential market in order to be glazed in a window.

It is the best LowE product on the market and it improves the energy efficiency of DGU and TGU windows.

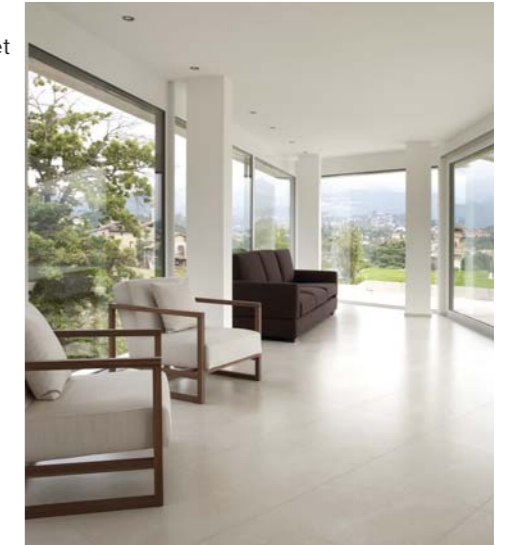
SGG PLANITHERM® XN is ideal for all windows where neutrality and high energy efficiency are needed. For instance following applications:

### Residential

- Windows for both Renovation and new Building
- Large area sliding bay windows

### Commercial

- Facades where low Ug Values are required without use of TGU (Weight issues for Façade structure)



## Product Range

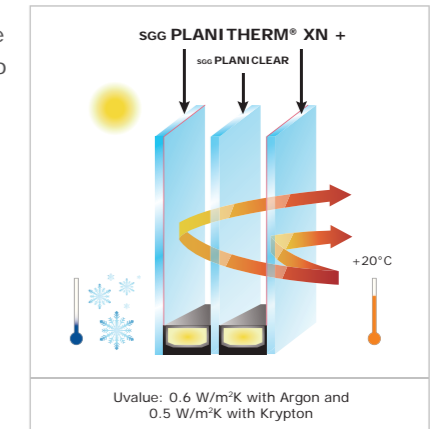
SGG PLANITHERM® XN and SGG PLANITHERM® XN II are available and in stock:

- Jumbo size (PLF): 6 000 x 3 210 mm
- DLF size: 3 210 x 2 250 mm
- Thicknesses: 3 / 4 / 5 / 6 / 8 / 10 mm
- Laminated glass: standard compositions and Jumbo size for SGG PLANITHERM® XN

## Processing & Performances

SGG PLANITHERM® XN must be used for insulating glazing in double or triple glazing units. The transformation of SGG PLANITHERM® XN is comparable to the SGG PLANITHERM® product range. It can be used only annealed. SGG PLANITHERM® XN II must be tempered before being assembling in an insulating glazing.

Moreover, thanks to a very low level of absorption, SGG PLANITHERM® XN can be put on a middle pane of the triple glazing **without any risk of thermal breakage** (for standard TGU configuration such as 4/14/4/14/4 together with good window frame. For more specific glazing configuration or the use of bad frame a thermal calculation is requested). **This glazing configuration leads to outstanding performances!**



### Performances

Composition (mm)	Gas Filling	Ug Value W/(m <sup>2</sup> K)	Transmission of light (%)	g-value (%)	Reflexion of light (%)
4/16/*4	Argon > 90 %	1.1	82	65	12
4/10/*4	Krypton > 90 %	1.0	82	65	12
4*/14/4/14/*4	Argon > 90 %	0.6	74	54	16
4*/12/4/12/*4	Krypton > 90 %	0.5	74	54	16
4/14/*4/14/*4	Argon > 90 %	0.6	74	56	16
4/12/*4/12/*4	Krypton > 90 %	0.5	74	56	16

- Values calculated according EN410-2011 & EN673-2011 Standards.
- Glazing configuration with SGG PLANICLEAR and SGG PLANITHERM® XN
- \* position of the coating