

# PLANITHERM LUX

HIGH PERFORMANCE  
ENERGY-EFFICIENT GLASS



GLASS EXPROVER



SAINT-GOBAIN

# PLANITHERM LUX PLANITHERM LUX II (Tempered Version)

THE BEST NATURAL LIGHT AND ENERGY EFFICIENCY

## APPLICATIONS

PLANITHERM LUX is designed for double and triple glazed windows that are neutral, very transparent and energy efficient.

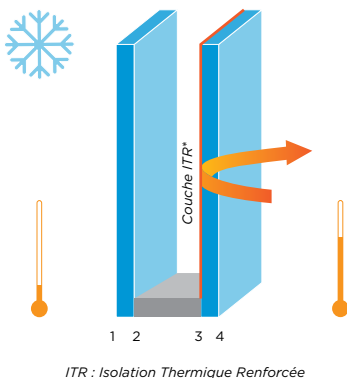
It is intended for the new construction and renovation:

- Windows for single and multi-family dwellings;
- Large sliding glass doors;
- Facades, interior glass frames, displays and storefronts of commercial buildings (office buildings, public buildings, etc.).

## DESCRIPTION

PLANITHERM LUX is one of the best performing, low emissivity (low-e) glasses on the market and optimizes the energy efficiency of windows through double and triple glazed panes.

PLANITHERM LUX II is the "tempered version" version of PLANITHERM LUX. This glass must be tempered to acquire the solar and thermal characteristics identical to those of PLANITHERM LUX. For tempered glass: Consult the Technical Department of Saint-Gobain Glass.



Double glazing for PLANITHERM LUX  
U<sub>g</sub> value: 1.5 W/(m<sup>2</sup>.K) with argon

## BENEFITS

### Energy Efficiency



By its thermal insulation performance, PLANITHERM LUX minimizes thermal losses. In addition, through its very high solar factor, it transmits a high proportion of solar radiation, which contributes significantly to the building heating. The beneficial combination of these two effects generates a significant energy savings and, therefore, a reduction in CO<sub>2</sub> emissions.

PLANITHERM LUX is perfectly suited for the **Energy Star certification**.

### Visual Comfort and Transparency



PLANITHERM LUX creates a new standard for natural lighting, improves visual comfort and reduces artificial light consumption. PLANITHERM LUX reaches the highest level of light transmission: up to 82% in double glazing and up to 74% in triple glazing.

### Esthetics



PLANITHERM LUX presents a very neutral esthetic and a very high color rendering through transmission and reflection.

### Comfort in Winter



The low U<sub>g</sub> value of glass reduces thermal losses to a minimum and maintains the inner glass pane near room temperature.

Consequently, even in the middle of winter, the ambient temperature remains pleasant in the immediate vicinity of the window.

## COMBINATIONS

PLANITHERM LUX can be combined with other glazing to provide additional functionality:

**BIOCLEAN** for an easy maintenance glazing

**STADIP SILENCE** for improving acoustic comfort

**STADIP PROTECT** for safety glass

## PRODUCT LINE

PLANITHERM LUX is available in stock.

- PLF and DLF format: 6,000 x 3,210 mm; 2,250 x 3,210 mm, custom sizes available on request
- Thicknesses: 3, 4, 5, 6 mm
- Laminated glass: PLANITHERM LUX is available in standard PLF and DLF compositions.

## PERFORMANCE

### Double glazing with PLANITHERM LUX

| Composition (mm) | Gas-filled | U <sub>g</sub> value W/(m <sup>2</sup> .K) | Light transmission (%) | SHGC Solar factor | Light reflection (%) |
|------------------|------------|--|------------------------|-------------------|----------------------|
| 3/12/*3          | Argon      | 1.5  | 82                     | 0.74              | 13                   |

\* Values calculated according to the NFRC 200/300 2010 standards. IGBD ID No. 21450

\* Glazing compounds for PLANITHERM LUX or PLANITHERM LUX II

\* Position of the layer