

INNOVATION IN GLAZING

**NEW**

# iplus Low-E<sup>2</sup>

The innovative product range from Interpane

**iplus SE**

super energy glazing

**iplus sun**

climate glazing

 **INTERPANE**



## iplus Low-E<sup>2</sup> – innovative coating technology

In recent years Interpane has initiated numerous innovations. Thus the Low-E<sup>2</sup> products presented here are not just simple modifications to the proven iplus S range but are the result of a completely redesigned product line. The multi-layer coatings with the Low-E<sup>2</sup> double-silver coating technology have a much more complex structure and decisively improve the visible, solar and thermal properties of the glazing products. This opens up completely new possibilities, particularly for private builders.

### **Indoor comfort with Low-E<sup>2</sup>**

Modern glazing systems combine lower U<sub>g</sub>-values with high g-values to allow as much “free heating energy” into the home as possible. However, what is advantageous in winter can sometimes become a problem in summer: sunlit spaces such as conservatories, bay windows and attic studios heat up.

With the newly designed Low-E<sup>2</sup> product range, Interpane has launched two insulating glazing types onto the market, which are tailored to the private housing sector and perfectly suited for large-scale use in sunny locations.

**iplus SE** – super energy glazing

**iplus sun** – climate glazing

Both types of glazing feature improved thermal insulation with high light transmittance. What distinguishes iplus SE and iplus sun are their different technical characteristics: whereas iplus SE is designed to have a relatively high g-value as thermally insulating glazing, iplus sun combines good thermal insulation with overheating protection, having a g-value of only 43%! Thus iplus SE and iplus sun offer pinpoint solutions for different performance requirements.



# iplus SE and iplus sun: Light, pleasant indoor conditions

## iplus SE – super energy glazing

With an excellent  $U_g$ -value of only 1.1 W/m<sup>2</sup>K in accordance with EN 673, iplus SE undercuts the current standard value for insulating glazing units (1.2 W/m<sup>2</sup>K). As the  $U_w$ -value generally also decreases by 0.1 W/m<sup>2</sup>K, this means that the thermal properties of a window with iplus SE are also enhanced. The excellent insulating performance is achieved with only one sophisticated multi-layer coating. The intermediate cavity between the panes is filled with standard argon gas.

Using iplus SE means:

- **low heating costs**
- **little environmental pollution**
- **cosy warmth in winter**

However, iplus SE can do a lot more, especially during the winter months. With its excellent light transmittance ( $\tau_L = 74\%$ ), iplus SE allows optimal daylight inside the house.

The result:

- **spaces flooded with light**
- **improved quality of life**

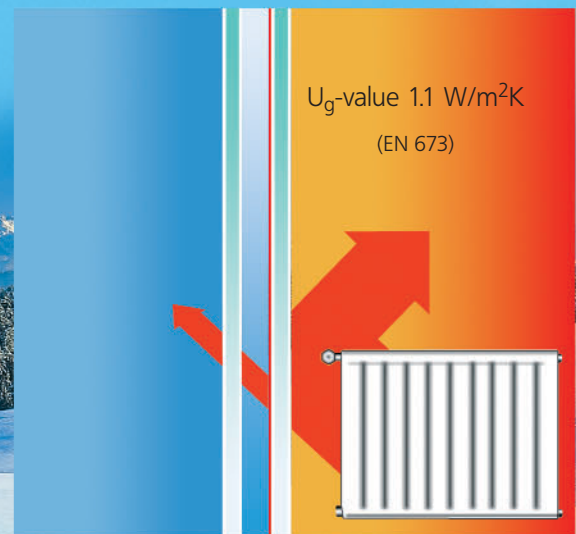
## iplus sun – climate glazing

Is there anything more wonderful than enjoying the light, air and sun in a generously glazed attic studio, bay windowed room or conservatory? But what happens when the conservatory becomes too warm in summer? Thanks to iplus sun, private builders now hold all the trumps. The reduced g-value of 43% provides effective overheating protection in summer.

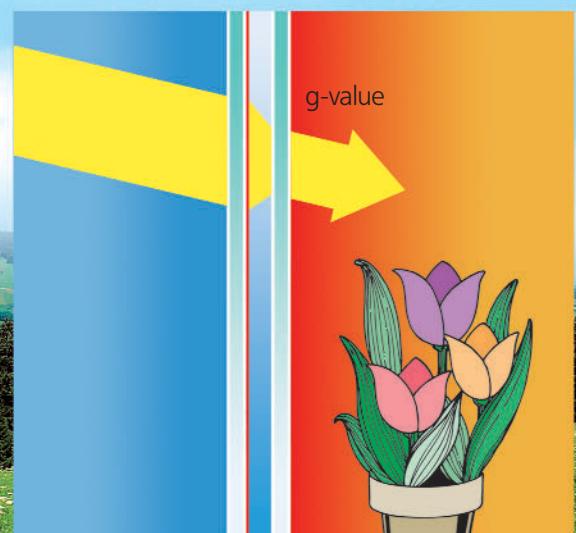
That means:

- **lower indoor temperatures**
- **greater comfort in summer**
- **greater flexibility in designing spaces**

Of course, with a  $U_g$ -value of 1.1 W/m<sup>2</sup>K in accordance with EN 673, iplus sun also ensures lower heat losses in winter.

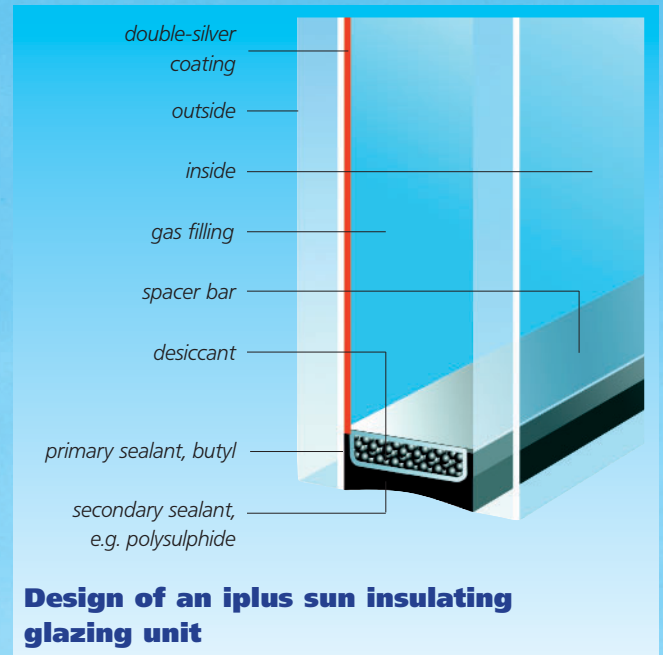
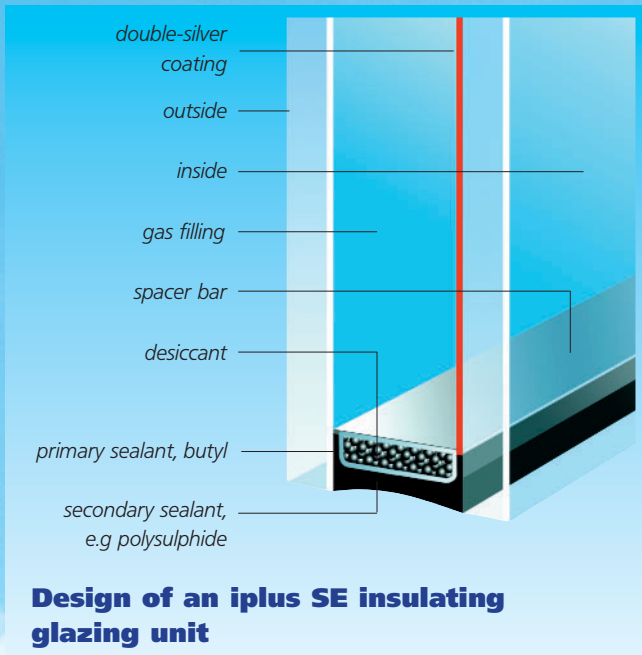


**Protection against heat loss in winter**



**Protection against overheating in summer**

# iplus Low-E<sup>2</sup> – Glazing technology at its best



The top performing iplus Low-E<sup>2</sup> product range ensures a completely new quality of living: pleasant conditions in summer and light, warm rooms in winter – with extremely low energy costs!

## Characteristic values

### iplus SE

U<sub>g</sub>-value = 1.1 W/m<sup>2</sup>K (in accordance with EN 673)

g-value = 55 % (in accordance with EN 410)

τ<sub>L</sub>-value = 74 % (in accordance with EN 410)

### iplus sun

U<sub>g</sub>-value = 1.1 W/m<sup>2</sup>K (in accordance with EN 673)

g-value = 43 % (in accordance with EN 410)

τ<sub>L</sub>-value = 71 % (in accordance with EN 410)

As one of the largest flat glass processors in Europe, **Interpane Glas Industrie AG** is renowned not just for its coating technology but also for its quality and reliability. Interpane offers a complete range of advanced products of the highest technical standard. Sophisticated environmental management ensures that the production meets the highest ecological criteria.

You can obtain the new Low-E<sup>2</sup> products directly from Interpane or from high-capacity processors of coated basic glass. Together with its partners, Interpane will continue in future to make good products even better.

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