

SGG PLANITHERM® ONE
SGG PLANITHERM® ONE II

$U_g = 1.0 \text{ W/m}^2\text{K}$
according to EN 673

*Advanced
low-emissivity glass*



SGG PLANITHERM® ONE / ONE II

Ug = 1.0 W/m²K according to EN 673 in double glazed unit!

Highlights

SGG PLANITHERM® ONE – unique low-emissivity glass with higher thermal insulation which allows to comply with present building regulations.

- **DGU:** advanced thermal insulation of **Ug = 1.0 W/m²K** enables to reach the required parameter of emissivity for the whole window (Uw value), without the use of warmer profiles!
- **TGU:** warmer low-emissivity glass guarantees the supreme parameter of **Ug = 0.5 W/m²K** with 16mm spacer bars (total unit thickness of 44mm).

Applications

SGG PLANITHERM® ONE has been developed for window applications in the residential market.

- The applications are as follows:
- Windows for both renovation and new buildings
 - Large area windows
 - Facades

Advantages

- **Energy savings**
Optimal thermal insulation
Ug = 1.0 W/m²K
- **Lower heating bills**
Significant heat loss reduction
- **Environmentally friendly**
CO₂ emission reduction
- **Great comfort level**
No cold area around windows

Maximal use of living areas

Product Range

- Jumbo size (PLF): 6 000 x 3 210 mm
- DLF size: 3 210 x 2 000 mm
- Thicknesses: 3 / 4 / 5 / 6 / 8 / 10 mm
- Laminated glass: standard product range
- Tempered glass: SGG PLANITHERM® ONE II

Processing & Performances

SGG PLANITHERM® ONE has been designed for both double & triple glazed insulated units. The transformation of this glass is comparable to the **SGG PLANITHERM®** product range. **SGG PLANITHERM® ONE II** must be tempered.

DGU and TGU performances

Composition (mm)		4-16-4	4-16-4-16-4	4-18-4-16-4
IGU Thickness (mm)		24	44	46
Outer Pane	Side 2	SGG PLANICLEAR	SGG PLANITHERM ONE	SGG PLANITHERM XN
Middle Pane TGU Internal Pane DGU	Side 3	SGG PLANITHERM ONE	SGG PLANICLEAR	SGG PLANICLEAR
Internal Pane	Side 5	-	SGG PLANITHERM ONE	SGG PLANITHERM ONE
Luminous Factors	TL	72	59	66
	RL	22	32	24
Solar Factor	g	52	38	46
Coef. Ug	argon 90%	1.0	0.5	0.5

Values calculated according to EN410-2011 & EN673-2011.



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