

# SGG PLANITHERM® ONE

LOW-E GLASS FOR TOP PERFORMANCE  
ENERGY EFFICIENT DOORS OF COOLERS



BUILDING GLASS EUROPE

  
SAINT-GOBAIN



# sgg PLANITHERM® ONE

## TOP PERFORMANCE ENERGY EFFICIENT GLASS FOR COOLERS DOORS

### APPLICATIONS

sgg PLANITHERM ONE, low-E coated glass, can be used in all insulating glass units, for placement in doors of:

- Beverage coolers
- Refrigerated display cases
- Vertical freezers
- Wine cabinets
- ...

It can be incorporated in all types of frames.

### DESCRIPTION

sgg PLANITHERM ONE is a high performance low-E coated glass, to be processed into an insulating glass unit. It is made of a clear float glass on which a thin transparent coating has been deposited by magnetron sputtering under vacuum. The coating exhibits the lowest emissivity industrially accessible; it reflects the far infrared radiation thus cutting most of the heat transfer by radiation.

### PRODUCT RANGE

- Standard thickness range: 3mm - 4mm
- Other thickness on request: 6mm - 8mm - 10mm
- Substrate: Clear float sgg PLANICLEAR
- Size: Stock sizes and Jumbo size (6000 mm x 3210 mm)
- To be tempered version: sgg PLANITHERM ONE II. Once tempered, this glass has the same thermal performance and appearance as the annealed sgg PLANITHERM ONE.

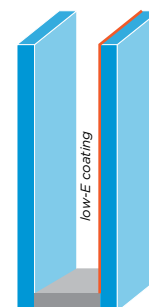
### BENEFITS

Once assembled in a double-glazed unit, sgg PLANITHERM ONE offers the best thermal insulation in the world for a double glazed unit.

- Very significant energy savings for cooling compared to conventional low-E glass products (upto 20%)
- Much reduced condensation risk
- High transparency allowing excellent view of goods through the glass
- Very neutral appearance
- Can be used in triple glazed unit
- Environmentally friendly thanks to the CO<sub>2</sub> emission reduction
- Safety glass available thanks to the "to be tempered" version sgg PLANITHERM ONE II.

### PROCESSING

sgg PLANITHERM ONE has to be processed into an insulating glass unit. The coating along the edges is removed then placed inside the cavity, on face 2 or 3. sgg PLANITHERM ONE II must be tempered prior to IGU assembly. Use of the SWISSPACER warm-edge spacer is recommended to achieve the best insulation at the IGU edges.



### PERFORMANCES

Performances and quality of sgg PLANITHERM ONE and ONE II comply with the requirements of the standard EN 1096 and are **CE** marked. ([www.saint-gobain-glass.com/ce](http://www.saint-gobain-glass.com/ce)).

IGU composition mm	LT %	Ug-value W/m <sup>2</sup> .K
3 / 16 / 3	72	1.0
4 / 16 / 4	71	1.0
3 / 12 / 3	72	1.2
4 / 12 / 4	71	1.2
3 / 12 / 3 / 12 / 3	64	0,7

Argon gas filled cavity. Average values given according to EN norms

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