

PLANITHERM®

Top performance energy
efficient glass for cooler doors





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PLANITHERM® 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.

Benefits

- **Energy savings**
- **Reduced condensation risk**
- **High transparency**
- **Neutral appearance**

1 Benefits

Once assembled in a double-glazed unit, PLANITHERM® offers the best thermal performance for passive refrigeration.

- Very significant energy savings for cooling
- 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 CO2 emission reduction
- Safety glass available thanks to the “to be tempered” version PLANITHERM® ONE II or “temperable” version PLANITHERM® 1.3 T

Applications

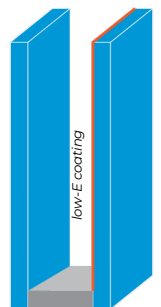
PLANITHERM® Low-E coated glass, can be used in all insulating glass units, for placement in doors of:

- Beverage coolers
- Refrigerated display cases
- Vertical freezers
- Wine cabinets
- It can be incorporated in all types of frames.

2 Processing

PLANITHERM® 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. 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.



Performance

STANDARD VALUES

COATING	Light transmission LT %	Reflection outside LRe %	Reflection inside LRi %	Ug-value W/m2K	Emissivity
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PLANITHERM® in DGU 4 mm (Argon 16 mm) 4 mm with coating on face # 2 according to the standards EN 410 and EN 673 ¹

PLANITHERM® ONE II	71%	23%	22%	1.1	0,03 (±0,01)
PLANITHERM® 1.3T	76%	12%	12%	1.3	0,08 (±0,01)

- 1.DGU values calculated with PLANILUX® as inner pane
- 2.For any inquiry related to the processing of these coatings, please contact ourTSM (Technical Support Manager) and refer to the processing guidelines
- 3.Ug value calculated for the center of the glass. Effects of spacer and frame of the glass door are neglected
- 4.Small variations may occur depending on the production tolerance and the type of instrument used to measure optical properties

Availability

STANDARD THICKNESSES AND DIMENSIONS

THICKNESS	DIMENSIONS (mm)
3.15 mm	3210 x 2200 3210 x 2400
4 mm	3210 x 2400

Other dimensions and thicknesses: Please contact the specification team

Processing

- To be tempered coating (PLANITHERM® ONE II) and temperable coating (PLANITHERM® 1.3T)
- To be assembled in double glazing only
- Edge deletion mandatory
- Enameling not compatible
- Bending



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