

# SMARTGLASS, AR GLASS WARRANTY



## THE GLASS TERM COVERS:

- **Float glass** – soda lime glass of initial light transmittance 90+
  - **Low-iron glass** – soda lime glass of initial light transmittance 91+
- This guarantee is valid only if the requirements of Smartglass, AR glass handling and precautions instructions are strictly followed
  - DAGLASS guarantees the optical performance in direct light transmission within the PAR range (according to the norm NEN 2675:2018 Greenhouse glass – Determination of optical properties of greenhouse covering materials and screens). The sample choice for testing is defined for the particular glass project in line with NEN 2674.
  - DAGLASS guarantees deterioration of direct light transmittance not higher than 1.0 % of the guaranteed order value of direct light transmittance measured according to the norm NEN2675:2018

Haze	Base glass	Direct Transmittance +/- 0.5 %	Hortiscatter +/- 0.5 %	Direct Transmittance +/- 0.5 %	Hortiscatter +/- 0.5 %
30%	Float glass 90+	90,5%	15	95,5%	15
50%	Float glass 90+	90,5%	30	95,5%	30
70%	Float glass 90+	90,5%	45	95,5%	45
30%	Low-iron glass 91+	91,5%	15	96,5%	15
50%	Low-iron glass 91+	91,5%	30	96,5%	30
70%	Low-iron glass 91+	91,5%	45	96,5%	45

**Table 1.** Guaranteed optical properties; haze, hortiscatter and direct light transmittance are defined as below or described by sale contract.

The deterioration concerns the 10 years period of exposure to natural atmospheric conditions, the transmittance measured according to NEN 2675. The glass has to be properly serviced and maintained according to the Smartglass, AR glass handling and precautions instructions.

The acceptable transmittance deterioration of 1.0 % excludes the loss of the transmittance due to the natural glass ageing process. Glass itself loses also slowly its optical properties, typically 0.5 % within the above mentioned period.



**This concerns also not processed glass. For this reason the measurement should be compared to aged, not processed sample.**

- haze value acceptable change is  $\pm 10\%$  of contracted value
  - hortiscatter acceptable change is  $\pm 10\%$  of contracted value
  - Guarantee claim should be delivered together with the reliable documentation which has to be accepted by DAGLASS; order confirmation, measurements results of randomly chosen samples of number not lower than 0.2% of claimed area of greenhouse measured according to the NEN 2675.
  - The guarantee covers only the above-mentioned light transmission and haze as well as hortiscatter. Any spots and/or color variations on the glass may be visible at certain angles of observation, but they do not affect the optical parameters as specified herein or sale contract and are not covered by this guarantee.
  - Any other costs: measuring costs, replacement costs, disassembling, glazing cost and other claims including loss of production, loss of income, direct costs, indirect costs, etc. are not covered by this guarantee and are not the responsibility or liability of DAGLASS.
  - The warranty does not cover neither broken glass panes nor with cracks.
  - This warranty is valid and transferable in case a customer is provided with a Smartglass, AR glass handling and precautions instructions and this documentation should be signed and send back to DAGLASS latest at the moment when delivery is finished.
  - Before glazing the glass a customer has to check its quality and optical parameters. The glass which is used for glazing is regarded as accepted.
- Responsibility:
    - In case of the transmittance lower than specified in the contract a customer has a right for following:
      - glass reprocessing (a customer has to deliver the glass and cover related costs (e.g. glazing)
- or
- financial discount proportional to the loss of direct light transmittance compared to guaranteed values of AR (antireflective treatment). Discounts calculation base concerns price of AR treatment
- or
- financial discount proportional to the loss of haze/hortiscatter and compared to guaranteed values of haze/hortiscatter. Discounts calculation base concerns haze/hortiscatter service price.