

DA||GLASS



BEO GLASS

**PREMIUM QUALITY
GREENHOUSE GLASS
FOR PREMIUM QUALITY PLANTS**



**Over 30 years
of experience in
craftsmanship of
highly advanced
glass technology**

DAGLASS patented technologies are changing the morphology of the nanostructure of the glass



BEO GLASS

BEO Haze

BEOGLASS produced by two stage chemical glass processing. In the first stage we change the morphology of a glass microstructure and we create diffused layers at both sides of the glass.

In the second stage one creates antireflective properties at both sides of a glass pane. Thanks to the DAGLASS technology the SMARTGLASS offers increased light transmittance and perfectly equal light spread.



BEO Haze

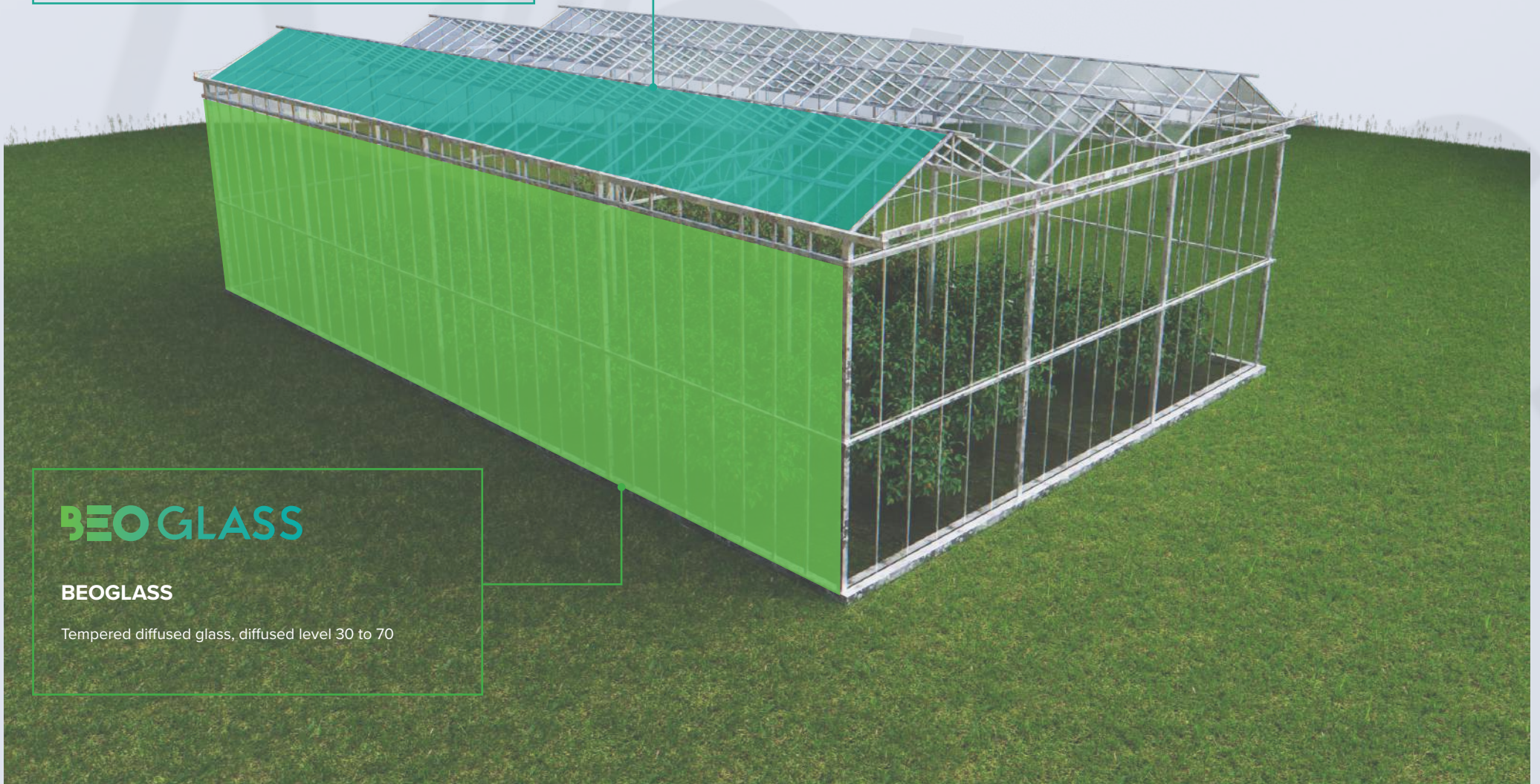
BEOHAZE

Tempered diffused glass, diffused level 30 to 70, adjusted to a crop and climate conditions. Glass direct light transmission from 90% up to 98% thank to the double sided Antireflective feature.

BEO GLASS

BEOGLASS

Tempered diffused glass, diffused level 30 to 70



DIFFUSED GLASS

BEO Haze

BEOHAZE TECHNOLOGY

Even light distribution

- The interior of a greenhouse covered with diffused glass produced by DAGLASS provides no shadows, it evenly illuminates the plants at all levels.

Better thermal conditions in a greenhouse

- DAGLASS diffused glass lowers temperature inside the greenhouse during periods of high solar radiation.

True productivity increase

- **Up to 12 % greater** density of plantings and plant shoots and 10-15% increased crop yield.
- **Up to 97% more light amount on cloudy and rainy days** thanks to increased light transmission of wet diffused glass.



Haze 0%



Haze 15%



Haze 30%



Haze 45%



Haze 60%



Haze 70%



ANTI-REFLECTIVE GLASS

BEOGLASS TECHNOLOGY



ANTIREFLECTIVE GLASS (AR) is made according to a unique, patented technology. Due to company’s own designed chemical process a morphology of glass surface is modified. The changes in morphology of the glass give unique properties to a glass as increased light transmission and reduced sparkling effect.

Because of the fact, that antireflective treatment interferes in a glass structure the function of the glass remains constant, what results in a very high durability in comparison with standard coatings, wherein an additional layer is deposited on a glass surface.

HAZE	GLASS	DIFFUSED			DIFFUSED +ANTIREFLECTIVE		
		Direct transmittance	Hemispherical	Hortiscatter	Direct transmittance	Hemi-spherical transmittance	Horti-scatter
30%	90+	90,6%	81,5%	15	95,5%	86,2%	15
50%	90+	90,5%	80,4%	32	95,8%	85,4%	33
70%	90+	90,5%	79,6%	44	95,4%	84,0%	46
30%	91+	91,4%	82,4%	14	96,8%	87,5%	14
50%	91+	91,5%	81,5%	31	97,1%	87,0%	29
70%	91+	91,5%	80,6%	48	97,3%	85,9%	46

Fig.1. Comparison of direct transmittance value of regular float glass And low iron glass before and after AR treatment.





BEO GLASS

BEO Haze

Benefits

DAGLASS BEOGLASS™

BENEFITS OF BEOGLASS USE



Even light distribution

- Reduction of light reflection losses, this brings much higher light transmittance and much higher crop yield.
- Anti-reflective and diffused layers are an integral part of the glass thus high durability and ageing resistant is provided.
- BEOGLASS allows to scatter the light without its transmittance loss.
- Even distribution of light throughout the entire area of greenhouse.
- Reduction of shaded spots.
- Elimination of the spot plants overheating effect, and consequently reduction of the water stress effect.
- Reduced condensation of water vapor on the inside of the roof leads to a reduced amount of condensation water, which is the source of plant pathogens.
- Glass available with various haze adjusted to the crop type and the greenhouse location
- BEOGLASS due to the applied diffused microstructure under the influence of moisture increases its transparency, that results in glass extra light transmittance gain of 3-4 %.
- Thanks to microstructure, glass surface prevents from dirt molecules adhesion, glass surface has self-cleaning properties. One can easily clean glass by wind or just water.

	Tomatoes	Paprica	Green salad	Cucumber
Yield increase	+3%	+3%	+6%	+4%
Return on investment	44 months	24 months	24 months	33 months

Fig.2. BEOGLASS™ benefits and return on investment in numbers

Contact

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