

# SUNMAX RANGE

Low-iron float glass  
for horticulture application



## All you need is light!

**SunMax Premium** is exclusively produced in a float glass process. Its smooth surface ensures a consistently high hemispheric transmission in every season. Combined with our double-sided, ultra-durable antireflective coating, **SunMax Helios** is the product of choice for the cultivation of lettuce. The high permeability of UV radiation leads to improved plant growth, a better taste and more intensive colors.

### SunMax Horizon

Cost-efficient low-iron float glass. Thermally toughening is optional.

### SunMax Meridian

Ultra low-iron float glass with optimized optical properties and higher transmittance in the UV range. Thermally toughening is optional.

### SunMax Zenith

Thermally toughened ultra low-iron float glass, performed with a single-side ultra-durable antireflection coating.

### SunMax Helios

The top-quality product of our horticulture glass family. Thermally toughened and performed with a double-side ultra-durable antireflection coating, which enhances the light transmission considerably.



## Performance

### Optical properties

	Normal transmittance $T_n^{(1)}$	Hemispherical transmittance $T_{Hem}^{(3), (4)}$	Normal transmittance UV <sup>(4), (5)</sup>	Normal transmittance @ 320 nm <sup>(4)</sup>
Method	WUR-TNO	WUR-TNO		
Standard	NEN 2675+C1:2018 nl	NEN 2675	EN 410	
<b>SunMax Horizon</b>	90.5 % - 0.5 / + 1.0 %	83 %	67 %	22 %
<b>SunMax Meridian</b>	91.5 % ± 0.5 %	84 %	85 %	71 %
<b>SunMax Zenith</b>	94.0 % ± 1.0 % <sup>(2)</sup>	87.0 %	88 %	74 %
<b>SunMax Helios</b>	96.5 % ± 1.0 % <sup>(2)</sup>	89.5 %	90 %	76 %

(1) Photosynthetically Active Radiation (T normal) standardized to 4 mm thickness.

(2) Measured after a purification- and tempering process.

(3) Photosynthetically Active Radiation (T hemispherical) standardized to 4 mm thickness.

(4) Typically values standardized to 4 mm thickness.

(5) Ultraviolet radiation standardized to 4 mm thickness.

Report optical lab Wageningen UR Greenhouse Horticulture is available on request.

## Glass properties

	Cut	Thermally toughened	Antireflection coated
Density (at 18°C)	2500 kg / m <sup>3</sup>		
Thickness	4 mm ± 0.2 mm and 5 mm ± 0.2 mm		
Thermally toughened	No	Yes	Yes
Mechanical strength	≥ 45 x 10 <sup>6</sup> Pa	≥ 120 x 10 <sup>6</sup> Pa	
Maximum dimension	2600 mm x 2200 mm	2600 mm x 1500 mm	
Tolerance	Length of edge: ± 1 mm		
Rectangularity	Difference between diagonals: ≤ 3 mm		
Edge	Cut edge	Ground edge RK2 (C-edge)	
Local warp	n/a	0.5 mm / 300 mm	
Global warp	n/a	3 mm / m	
Longitudinal bubbles (core size)	≤ 3 mm: Unlimited > 3 mm to 10 mm: Maximum 4 per sheet > 10 mm: Not allowed		
Other point blemishes	≤ 0.5 mm: Unlimited > 0.5 mm to 2.0 mm: Maximum 2 per sheet > 2.0 mm: Not allowed		
Chips (l x w x d)	n/a	Maximum 10 mm x 2.5 mm x 1 mm	

## Conformity

The products described comply with the most recent version of DIN EN 572-2 - Glass in building - Basic soda lime silicate glass products - Part 2: Float glass.

The thermally toughened products described comply with the most recent version of DIN EN 12150 - Glass in building - Thermally toughened soda lime silicate safety glass.

The coated products described comply with the most recent version of DIN EN 1096 - Glass in building - Coated glass.



### AGC GLASS EUROPE, A EUROPEAN LEADER IN FLAT GLASS

Based in Louvain-la-Neuve (Belgium), AGC Glass Europe produces, processes and markets flat glass for the construction industry (external glazing and interior decoration), car manufacture and other industrial sectors (transport, solar power and high-tech). It is the European branch of AGC, a world leader in flat glass. It has over 100 sites throughout Europe, from Spain to Russia. AGC Glass Europe has representatives worldwide - More info on [www.agc-glass.eu](http://www.agc-glass.eu).

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