

**VAN DER VALK**



# GreenTop

## Outside screen system



Greenhouse climates can be controlled better if certain weather factors can be 'screened out' outside the greenhouse. Excluding sunlight reduces solar radiation and lowers the temperature, which is especially important for high-quality ornamental plants like orchids and roses. Outside screening also means electricity savings (due to a decreased demand for cooling) and higher CO<sub>2</sub> concentrations (less loss through ventilation). And thanks to its insulating effect, there are significant energy savings in the spring and autumn. The GreenTop outside screen from Van der Valk Horti Systems adds even more benefits to this list.



### Lightweight and compact

**Construction on the ridge of the greenhouse**

- ✓ Freely accessible gutters
- ✓ No accumulation of dirt
- ✓ Slender Valk-Plus push rods
- ✓ Minimal light loss



### Sustainable

**The cheapest cooling method**

- ✓ Less solar radiation, so lower greenhouse temperature
- ✓ Decreased need for cooling
- ✓ Higher CO<sub>2</sub> concentration, less loss through ventilation
- ✓ Can be provided with solar panels, approx. 350 m<sup>2</sup> per ha.



### Calculation program

**Calculation tool**

- ✓ Developed in collaboration with TNO and other partners
- ✓ Calculates the forces exerted on the structure for each project
- ✓ Insurable according to TNO norms

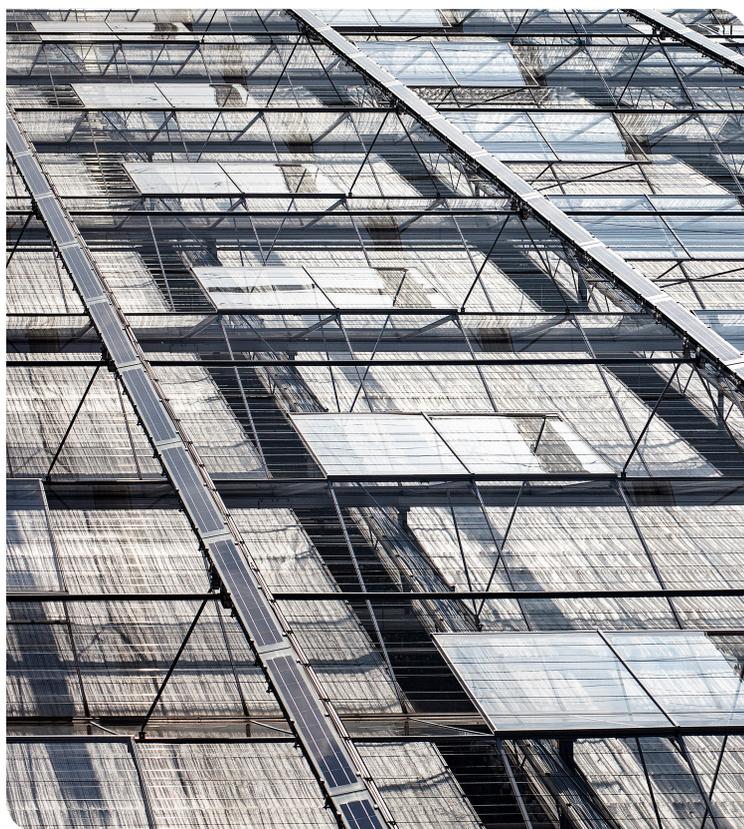
## GreenTop: truly a TOP product

### Hinged construction

The compactness of the construction is primarily due to the use of slender Valk-Plus push rods, which have been the standard for decades in their application in vent-opening systems in greenhouses. With the GreenTop outside screen, they are applied as carriers of the screen trusses, mounted next to the glazing bars as an inverted V on the ridge. The V-carriers are hinged on both the underside and the top. This allows them to absorb lateral movements, preventing additional load from being put on the ridge due to torsion in the structure. The height of the outside screen is of course determined by the length of the V-carriers, which are manufactured entirely to the client's specifications.

### Optional solar panels

GreenTop outside screens are also available with integrated solar panels to generate electricity. A fixed cap is made of solar panels and placed precisely above the screen system so there is no further loss of light. The green electricity generated can be used to meet part of the energy requirements in the greenhouse (air conditioning units, pumps, refrigerating units, etc.) without substantial transmission losses.



## WHY VAN DER VALK HORTI SYSTEMS?

- The only company in the world specialising exclusively in the development and production of ventilation mechanisms and screen systems
- Engineering and production are both in house
- Innovative systems with distinctive benefits for growers
- Quick and reliable deliveries due to our modern machinery and large stocks
- Technical, commercial and project support provided by enthusiastic staff
- Quick and efficient mounting using unique, well designed and high-quality components
- System supplier since 1963

### DEVELOPER AND PRODUCER OF VENTILATION MECHANISMS AND SCREEN SYSTEMS



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Klimax



ValkScreenVision



StabiMax



StabiMaxTwin



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GreenTop



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