



VDH FOLIEKASSEN BV

A leading manufacturer  
of plastic greenhouses



# A leading manufacturer of plastic greenhouses

## Our Quality – the key to your success

This company philosophy has already helped Van Der Heide Foliekassen BV in Hazerswoude-Dorp, the Netherlands, to specialize successfully in the construction of plastic greenhouses for more than 25 years.

VDH poly greenhouses are ideal for fruit and vegetable cultivation, for tree and vegetable nurseries, as well as for companies producing young plants. They are also used for flowering plants and bed and border plants, in plant growing operations and garden centers. As a result, crops grown in VDH plastic greenhouses are proven to be generally more hardy with a more compact habit and more intensive coloring.

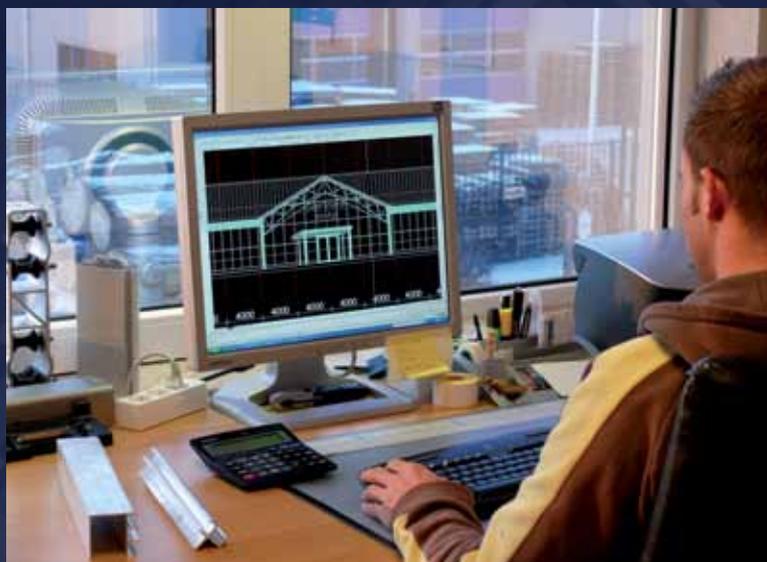
We guarantee first class support, planning, supervision and implementation of your project, before, after and during the construction phase. Whether you are looking for a standard poly greenhouse, or a customized version, we will supply and assemble the product on time and to professional standards – at home and abroad.

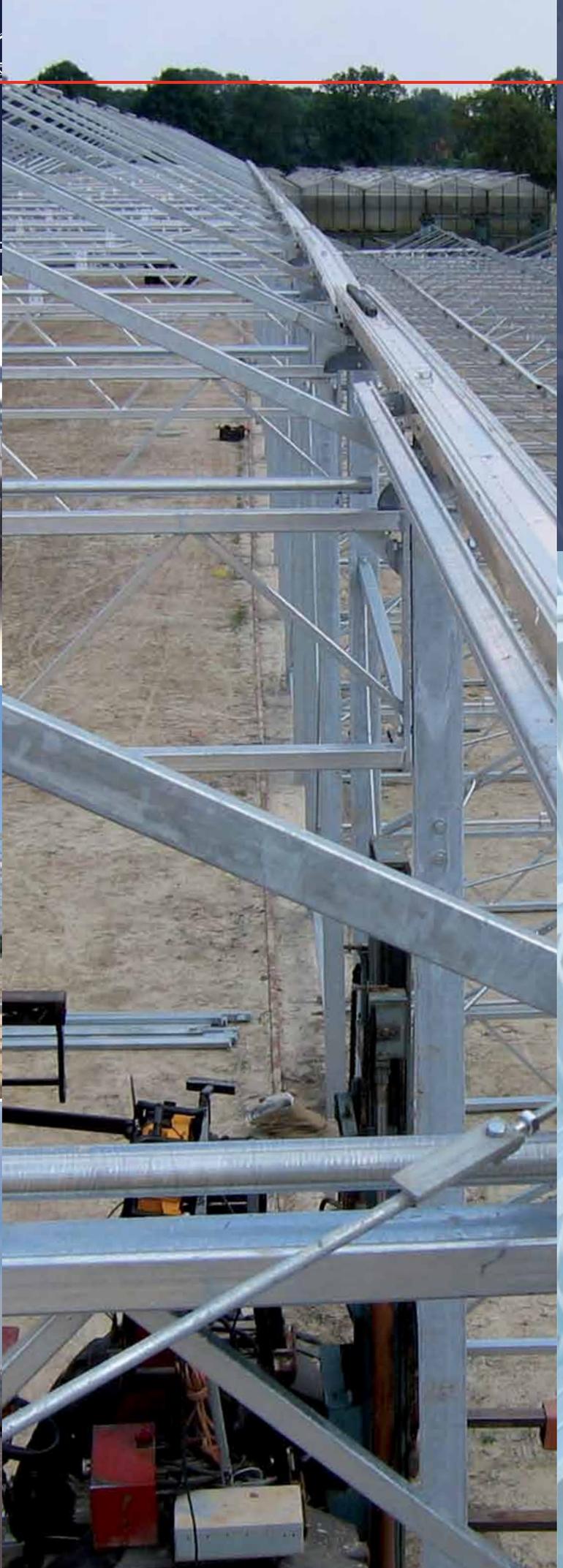
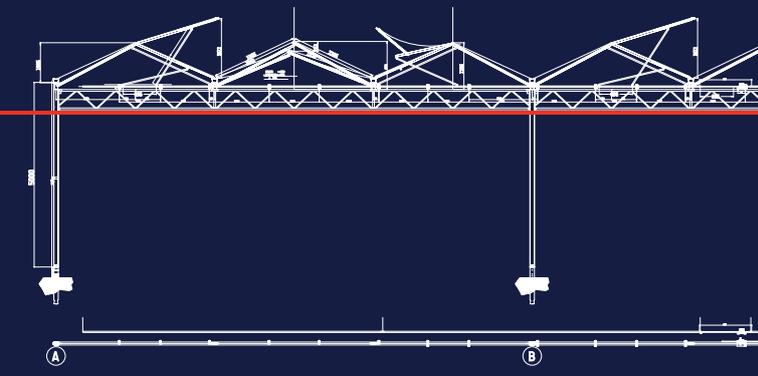
## Plastic Greenhouses

All our greenhouses are manufactured in-house and with only the highest quality materials. We are constantly and innovatively developing our plastic greenhouses and can therefore guarantee they are to the highest standard.

The combination of ideal ventilation conditions and our single or double polythene ensures a perfect environment for the majority of crops.

VDH Foliekassen BV is the first company on the market that has already implemented greenhouses with F-CLEAN double layer film.





# Plastic Covering

We use thermal anti-condensation plastic films from 0.18 mm to 0.22 mm thickness for all our plastic greenhouses. The light transmission percentage for the PE films used is between 88% and 92% depending on the type of film. Which type of film to use is discussed thoroughly with the customer. When doing so we consider the crop and other important requirements, so that the right choice of film can be made to guarantee a perfect growth of the crop.

## UV-stabilisation

UV stabilisers in the film neutralise the negative effects of ultraviolet light so that the lifetime of the film is extended.

## Thermicity

Low thermicity is obtained by adding mineral fillers and/or the use of EVA. These substances act as a barrier to the long wavelength infrared radiation and prevent too much cooling down at night. The lower the thermicity percentage the better.

## Anti-condensation working

Adding special additives to the film causes the condensation to spread and form a thin film of water that can be drained off through the gutters. Our aluminium gutters are designed specially to allow the condensation water to be collected.

## UV-transparent films

UV open films allow a high percentage of the UV-B radiation that is important for hardening, colouring and compact growth to be transmitted. Because ultraviolet radiation is not beneficial for all crops UV blocking films can also be supplied.

## Diffuse films

Diffuse light is very important for plants. The diffusion of the light ensures that there are no cast shadows, the light is more uniform and the bottom leaves also get sufficient light. The more diffuse a film the lower the leaf temperature thus preventing symptoms of direct burning on leaves and flowers.

## Double layer film

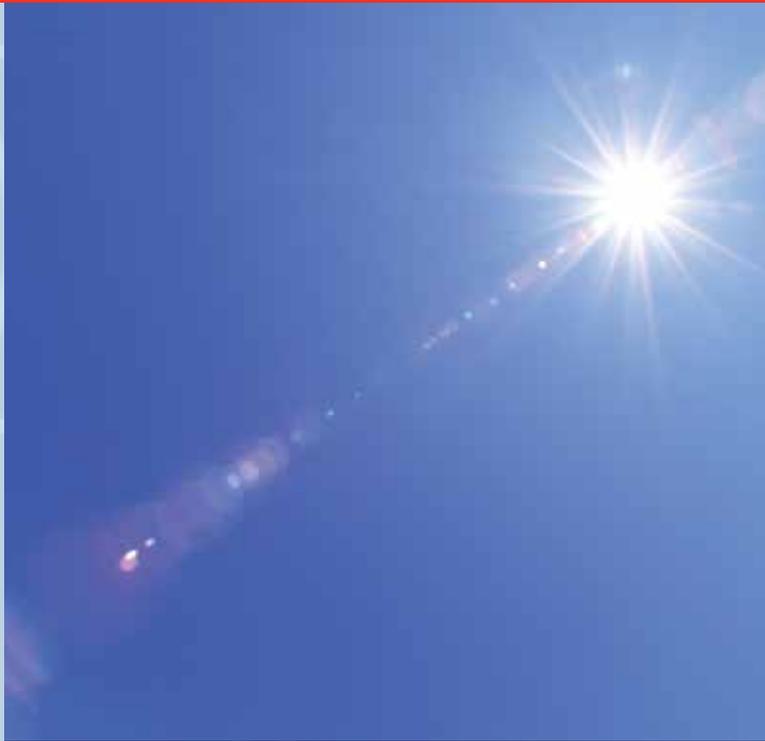
All our plastic greenhouses can be supplied with double-layered film. This has several advantages, the biggest being the energy savings. Up to 40% energy can be saved by using a double-layered plastic film with air between the layers as covering relative to, for example, a greenhouse with single panes of glass.

## Guarantee

We give a 5-year material guarantee on all films supplied and fitted by us.

## ETFE Plastic films (F-Clean)

We can also supply other films, such as F-Clean, on request.

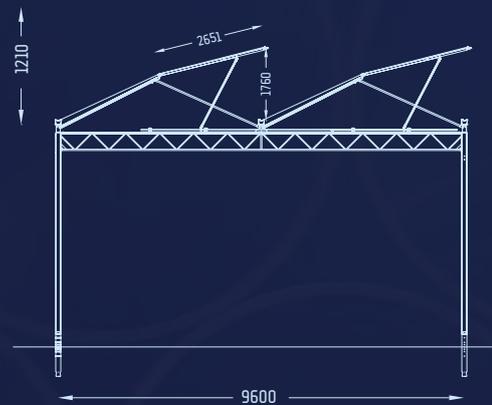


# Venlo greenhouse

*Single or alternating continuous gutter ventilation*

- Single or alternating continuous gutter ventilation
- Optimum ventilation capacity
- Ideal greenhouse climate
- Ventilation drive by means of gear racks
- The ventilation drive is also available with rail mechanism with push-pull tube.

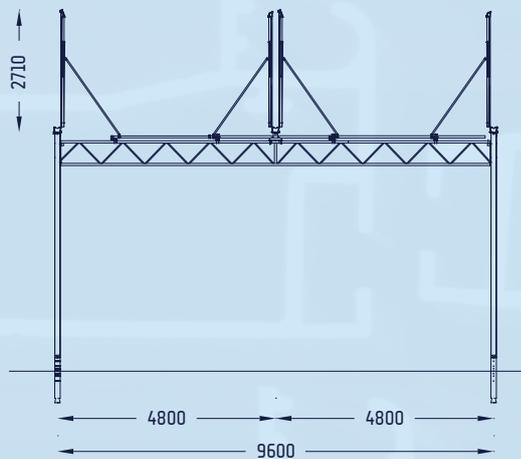
The advantage being: faster closing and opening times, less maintenance, less shadow effect and even better ventilation.



# Air 2000

*Maximum ventilation, which opens from the ridge, ensuring full UV light transmission. This will result in perfect colouring and hardening off of the plants.*

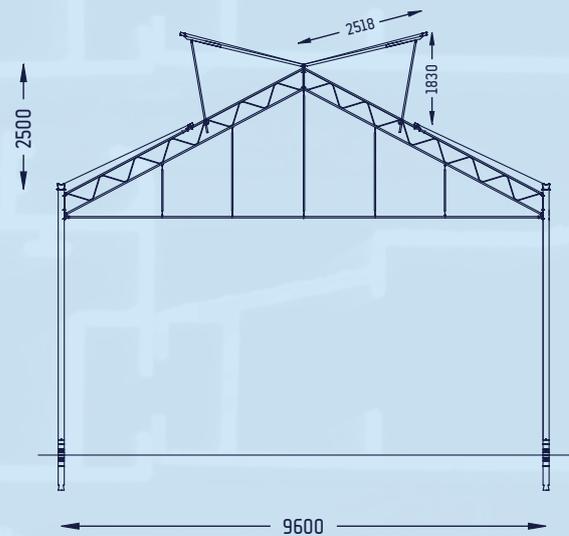
- Full roof opening, allowing each ventilation side to be opened separately
- Tightly fitting rubber seals
- Ventilation during rain possible, by installing an aluminium rain cover
- Ventilation drive by means of rail mechanism with push-pull tube,
- The advantage being: faster closing and opening times, less maintenance, less shadow effect and even better ventilation



# Wide Span

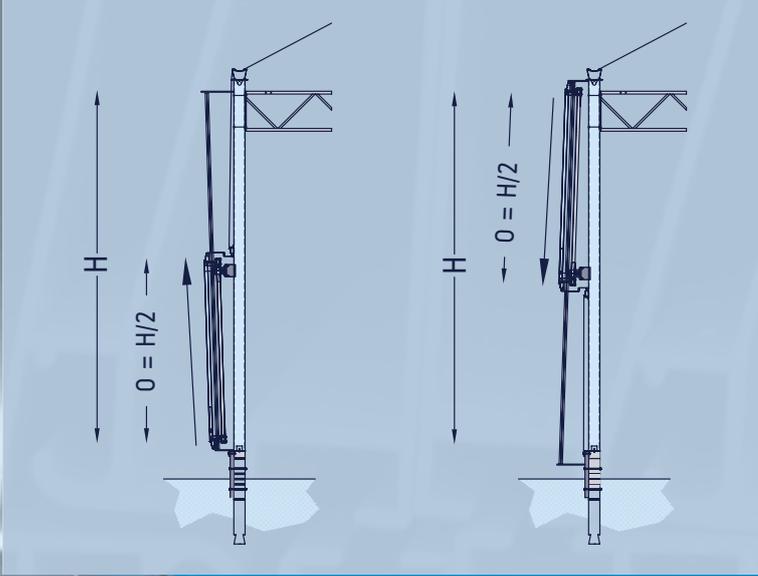
*Single or alternating continuous ridge ventilation.*

- Ideal greenhouse climate
- High light transmission
- Optimum ventilation capacity thanks to very deep ventilation windows
- Ventilation opening of up to 2.20 metres
- Ventilation drive by means of gear racks



# Side Ventilation

Storm-proof and no maintenance due to electric motors driving a rack and pinion system. Guaranteed long lifetime of all components, because the ventilation system in the outside walls moves up or down as a whole in a frame.

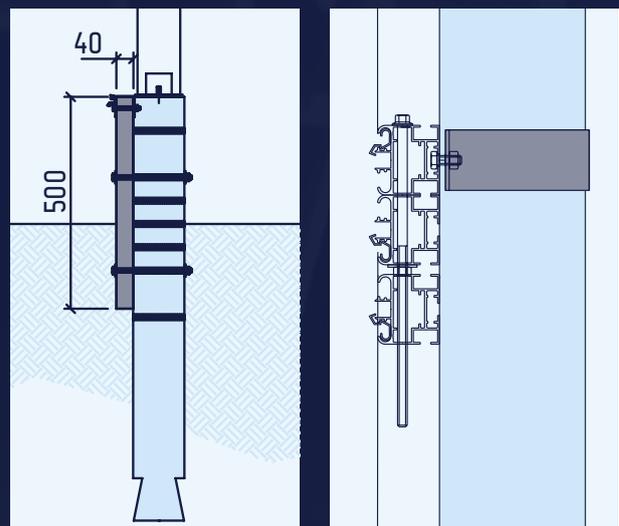




# Exterior wall systems

## Strip foundation

For the strip foundation, we use insulated sandwich panels with perfect-fitting aluminium clamping sections. Apart from the fact that the iso-panels are easy to install, their excellent insulating properties offer many benefits. “Cold bridge” problems, as found in concrete glasshouse foundations, will thus be avoided.



## Foil- Clamping system

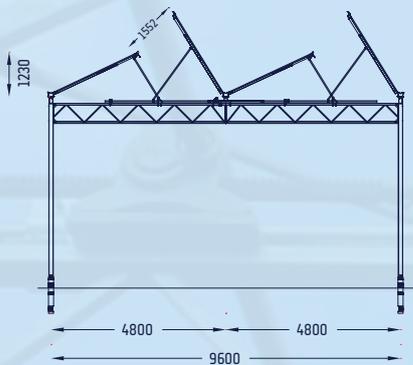
These aluminium sections, which like a zipper are pulled towards each other, ensure an optimum, permanent “tightness” of the foils. Since the foils cannot come into contact with the uprights of the greenhouse, their life is considerably extended.

The exterior walls can also be carried out with single- or double glazing or polycarbonate.

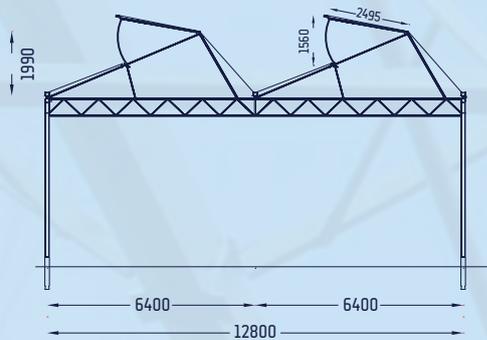
# Custom made

Naturally, some crops make special requirements on our plastic greenhouses. In order to be able to meet these requirements we also build various types of custom-made greenhouses with special ventilation possibilities. Standard sizes are 9.60m, 12.80m and 14.40m. Various widths as required are also possible. Examples of this are:

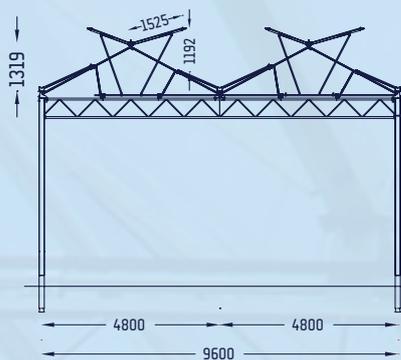
## Open Top



## Asymmetric



## Venlo ridge ventilation



# Standards

All VDH steel constructions and foundations comply with the Dutch standard for the building industry NEN 3859 and Casta programme, version 2.41.

**Widths:** Standard sizes and customised breadths available.

**Lengths:** Greenhouse lengths and compartment sizes variable.

**Post heights:** Post heights up to 7 metres.

**Foundation:** Zeus concrete slabs & ISO sandwich plates or Zeus ISO foot as strip foundation.

**Steel construction:** Hot bath galvanised in accordance with standard NEN-EN-ISO 1461

**Gutters:** Closed aluminium gutters with large water discharge capacity and integrated condensate discharge duct

**Ventilation:** Various methods of ventilation, see specification per type.

**Foil clamping sections:** All sections are made from high-grade aluminium only.

**Doors:** Made from aluminium, any size according to customer specification, available with foil, Plexiglas or double-skin sheets

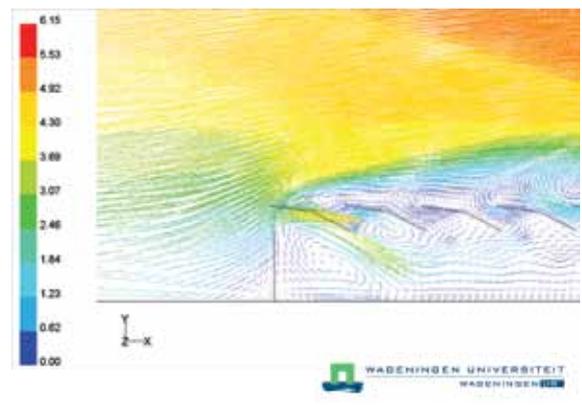
**Also available:** Overhead doors, screen installations and collapsible dividing walls.

- Construction is carried out exclusively by our own personnel who have many years of experience with our plastic greenhouses.
- The unique film spanning system and the fact that the film only comes in contact with the construction in a few places guarantees an exceptionally long lifetime for the film.
- We give 5 years guarantee on materials on our greenhouse constructions, ventilation systems and films.

- Optimum ventilation capacity for every crop on request.
- All types can be supplied as double film for energy savings of up to 40%.
- We guarantee expert advice and easy accessibility during all planning and construction phases, including permanent after sales service.
- All construction elements of VDH Plastic greenhouses are manufactured according to the highest quality standards to give optimum possibilities for use.
- Our list of references is proof of the quality and our customer satisfaction.

Design, construction, project supervision, perfect finish and continual service. With VDH Foliekassen you will be assured of an excellent product, perfect assembly, meticulous planning and long term service.

## CFD berekeningen VDH Foliekassen





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**VDH Foliekassen BV**

Frankrijklaan 9  
2391 PX Hazerswoude-Dorp  
(ITC-Terrein Boskoop)  
Holland

Tel. +31(0)172 - 235 990  
Fax +31(0)172 - 235 995

E [info@foliekassen.com](mailto:info@foliekassen.com)  
W [www.foliekassen.com](http://www.foliekassen.com)

