



**alcomij**  
horticulture solutions

# Greenhouse horticulture solutions



### Greenhouse horticulture solutions

As reliable, innovative and independent greenhouse horticulture partner, we really understand our sector: cultivating crops and efficient handling of products in the most effective, sustainable and controlled way. This results in continuity, quality and diversity of crops and a high crop yield.

At Alcomij, we want to help you and your customers achieve this. That is why we have been developing and producing smart horticulture solutions and solutions in cultivation logistics

1969. Our long and extensive experience has enabled us to develop a sound market insight, allowing us to work meticulously and diligently to supply the most appropriate and complete systems to you and your customers.

The products we develop and produce in-house include:

- steel greenhouse structures;
- aluminium greenhouse roof systems;
- aluminium greenhouse gable systems;
- aluminium greenhouse heating

- systems;
- aluminium flower trolleys;
- aluminium mobile benches.

As company, we operate in a modern and sound way, grasping all opportunities as soon as these arise. Our in-house research & development and production departments are driven by quality and innovation. They work continuously on improvements to our product range.

Modernising our own steel and aluminium production facilities has ensured that our production capacity is a perfect match for current market demand.

At Alcomij we practise what we preach and work together to build long-term relationships. We are your reliable greenhouse horticulture partner. We operate globally from the heart of Dutch horticulture.



Innovative urban roof farm "De Schilde" in The Hague



Conditioned cultivation

### Active across the world

We work with our greenhouse construction partners to play a key role across the world in the sustainable and controlled cultivation process. Our in-house developed and produced steel greenhouse structures, smart aluminium greenhouse roof, gable and heating systems, flower trolleys and mobile benches are used throughout the world.

All Alcomij solutions are of high quality and contribute to continuity, diversity and high yields in protected cultivation. From vegetables to floriculture!

### Cooperation

The Netherlands is the horticultural heart of the world. The Westland area has enabled our country to develop into the world's second largest food exporter.

As stated earlier, Alcomij plays a key role in the process of sustainable and controlled cultivation by delivering smart horticulture solutions in the form

of greenhouse systems and cultivation logistics. We work in close cooperation with researchers, governmental authorities, breeders, growers, greenhouse producers, greenhouse constructors and other suppliers from across the Netherlands to address global food issues. By combining knowledge and experience, we support the production of healthy and safe food across the globe in the most efficient and sustainable way possible and with the highest possible yields.

### Innovations

At Alcomij, we believe in ongoing innovation and high quality. That is why we work continuously to improve our product range and modernise our own steel and aluminium production facilities. This enables us to offer you the most appropriate solution and ensure that our production capacity is a perfect match for current market demand.

Examples of our successful innovation over the years include:

- the Euronova greenhouse roof system, which is also suitable for solar applications;
- the Slimline greenhouse gable system, equipped with our gable lift vent system;
- the semi-closed greenhouse system;
- the lightweight auction cart and mobile propagation bench as logistics solutions.



Solar greenhouse roof system

### Greenhouse systems

Alcomij offers you the widest range of greenhouse systems available within the horticulture industry. From aluminium greenhouse gables to greenhouse roofing and greenhouse heating system to steel greenhouse structures. We develop and produce the highest quality customised greenhouse systems in-house to safeguard continued cultivation quality and your customer's high crop yields.

All our greenhouse systems are engineered in-house, calculated

and manufactured using the very latest equipment and machines. Our research and development department works continuously to improve our greenhouse systems.

The wide range ensures that we can think with you and your customer. Together we match the greenhouse system to your customer's requirements, always using their specific requirements as starting point. And, as we always take local standards and regulations into account, we are able to achieve the optimal, most comprehensive and high-

quality system to match local climate conditions.

We provide a greenhouse system that enables your customer to cultivate in the most efficient, sustainable and controlled way.

*NB: All our greenhouse systems can be equipped with glass, polycarbonate, insulation and solar panel roof systems.*



Venlo greenhouse roof system



Steel greenhouse structure

### Steel greenhouse structures

At Alcomij, we engineer and produce lightweight steel structures. As well as the sub-structure for commercial greenhouses, at Alcomij we also have the expertise to engineer complex constructions including multiple cultivation layers, internal transport and shed constructions.

All Alcomij structures comply with the latest applicable standards. For global export the structures are modified to comply with local regulations. We can supply trusses in various

versions according to the customer's requirements. The entire structure is galvanised using the hot-dip method and provided with a powder coating, if required.

We use the latest TNO/CASTA version for all our steel calculations. For irregular structure we always use a 'Finite Element Analysis' (FEA).

### Greenhouse roof systems

At Alcomij we have a wide range of in-house engineered greenhouse roof systems, both for Venlo and Widespan types. From solar to Cabrio to semi-closed systems, we supply all conceivable efficient and sustainable greenhouse roof system solutions.

All greenhouse roofs are customised, which means that contact with the customer is vital. We think with you and your customer in a focused way to select the most comprehensive and optimal system. We use a MathCad

program 'Glazenstad', developed especially by TNO, to ensure that your new greenhouse roof system meets all local applicable standards and loads.

To safeguard continuity, quality and efficiency and high cultivation yields, we provide systems that:

- are storm and snow-proof;
- enable rapid fool-proof installation;
- have a high condensation drainage capacity;
- have minimum light interception.

### Greenhouse gable systems

The Alcomij Slimline gable system proves that you can achieve stunning gable solutions based on good cooperation, knowledge and many years' experience. A well-designed gable provides greenhouses with the appearance desired by many growers and local residents.

The sleek design of the Slimline gable has a wide glass support, is flat and is suitable for all common greenhouse types, including Venlo and Widespan greenhouse roof systems. The various

types of gables are easy to install and can be equipped with single glazing, 2 layers of single glazing and 16 mm polycarbonate plates. The gables for garden centres and commercial spaces can be equipped with so-called insulation gables.

The advantages of the Slimline gable:

- Flat and sleek design
- Easy to install
- Gable ventilation can be provided
- Precise connections and seals guarantee waterproofing

- Optimal options to achieve the desired insulation value
- Wide glass support
- Complete series: 4, 6 and 16 mm glass; 16 mm polycarbonate plates and 2 x 4 mm glass
- Meets the latest greenhouse structure standards



Cabrio greenhouse roof system provided with smart gable venting system

### Aluminium greenhouse heating systems

For many years horticulture industry growers have used aluminium heating tubes for hoistable heating. The tubes are lightweight and their unique design enables direct heat delivery. This means: improved crop results for your customer.

At Alcomij we supply aluminium greenhouse heating tubes in various types. We use your heating requirements and greenhouse dimensions to ensure an optimum greenhouse heating system.

### Solutions in cultivation logistics

Modern horticulture is characterised by its high degree of automation. Alcomij has been involved in the automated horticulture industry for many years. We produce aluminium mobile benches, smart flower trolleys and steel crates. The knowledge and experience obtained following an intensive development and test process led to fully patented designs for various solutions in cultivation logistics.

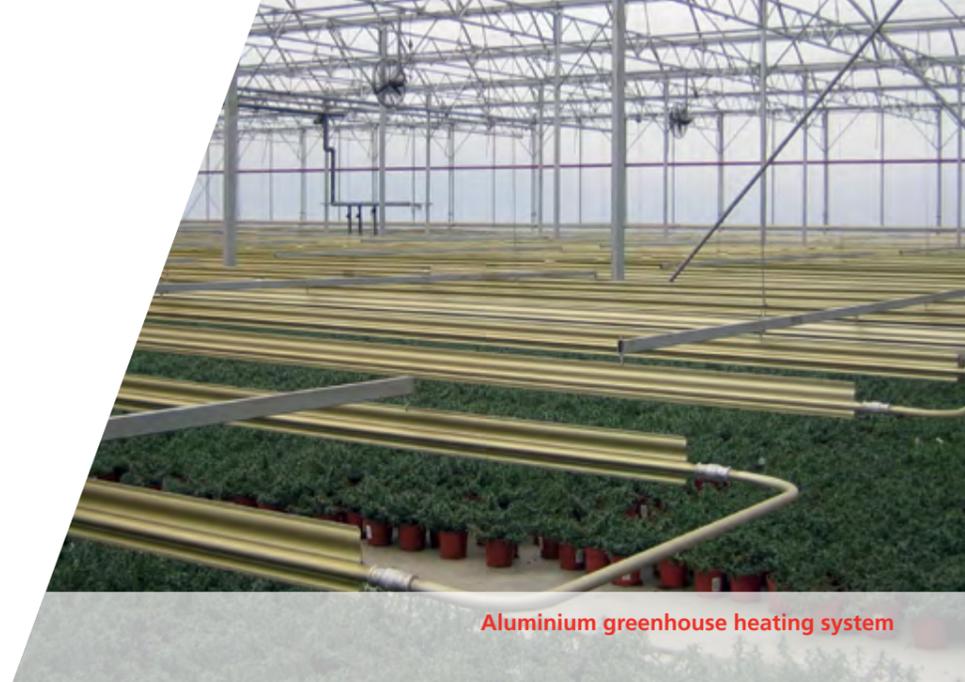
### Mobile Benches

The mobile benches help you and your customer to utilise the growing surface as efficiently as possible. We customise the mobile benches to the specific loads and available space at each project. We are also actively involved in specific cultivation developments. This means that we have a customised system for every nursery.

The knowledge and experience gained over many years following an intensive development and test process resulted in the fully patented and superior

mobile bench: the Moduline bench. This mobile bench is extremely suitable for export. Because of the smart screw connections and accompanying installation template no installers or welders with specific knowledge are needed. The assembly work can be carried out by local people.

As well as the mobile, modular bench system, Alcomij also supplies welded mobile benches. However, the welding of these benches on site is subject to restrictions in connection with welding smoke and the required process



Aluminium greenhouse heating system



Mobile bench

controls. That is why production of bench parts and mobile bench welding involve a real manufacturing process, in which we use high-quality automated production machines, such as welding robots and production lines.

Our mobile benches are of excellent and reproducible quality and have a sleek finish.

### Trolleys

We have been developing and producing trolleys at Alcomij for over 30 years. We were involved in the development of the flower trolley for FloraHolland. This resulted in all our lightweight trolleys being used by all flower and plant auction houses for efficient transport of millions of flowers and plants at these distribution centres. Alcomij is now market leader in aluminium trolleys.

The advantages of aluminium trolleys:

- The trolleys are developed according to the customer's requirements
- Manufactured entirely from aluminium, which makes them extremely lightweight and easy to handle
- Excellent manoeuvrability, durable swivel and fixed castors
- Available with many options, including anti-theft cables, racks and binder clips

### Steel crates

At Alcomij we supply steel crates in various versions and heights. This means that these can be used within the food industry for the storage and distribution of plastic packaging.

The steel crates are hot-dip galvanised, are stackable and can be dismantled easily. They can be equipped with a dividable top rack, enabling your employees to reach easily to the bottom of the crate.

The smart stackable racks, enable the crate to be divided into two layers. This means that the crate can be loaded to the maximum without damaging the bottom product layer. Ideal for your lorries' optimum load factor.



Aluminium trolleys

Steel crates

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