



alcomij
horticulture solutions

Greenhouse horticulture solutions



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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

since 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 constructions;
- aluminium greenhouse roof systems;
- aluminium greenhouse gable systems;

- aluminium greenhouse heating systems;
- aluminium (flower) trolleys;
- aluminium mobile benches and roller 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 live up to our promises and work together to build long-term relationships. We are your reliable greenhouse horticulture partner. We operate globally from the heart of Dutch horticulture industry.



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 constructions, smart aluminium greenhouse roof, gable and heating systems, trolleys and growing 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 Optinova™ greenhouse roof system, perfect for breeding locations characterised by extreme geographical conditions;
- the Slimline greenhouse gable system, equipped with our gable lift vent system;
- the semi-closed greenhouse system;
- the lightweight aluminium flower trolley, mobile bench, roller bench and the steel (foldable) stacking crate.



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 constructions. 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 calculated, engineered and

manufactured in-house 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 along 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 constructions

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

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

versions according to the customer's requirements. The entire construction 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 constructions 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 along with you and your customer in a focused way to select the most comprehensive and optimal system. We use the program

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

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

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

Greenhouse gable system

The Alcomij 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 our 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 16mm polycarbonate plates. The gables for garden centres and commercial spaces can be equipped with so-called insulation gables.

The advantages of our gable system:

- 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 16mm glass; 16mm polycarbonate plates and 2 x 4mm glass
- Satisfies the latest greenhouse construction 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

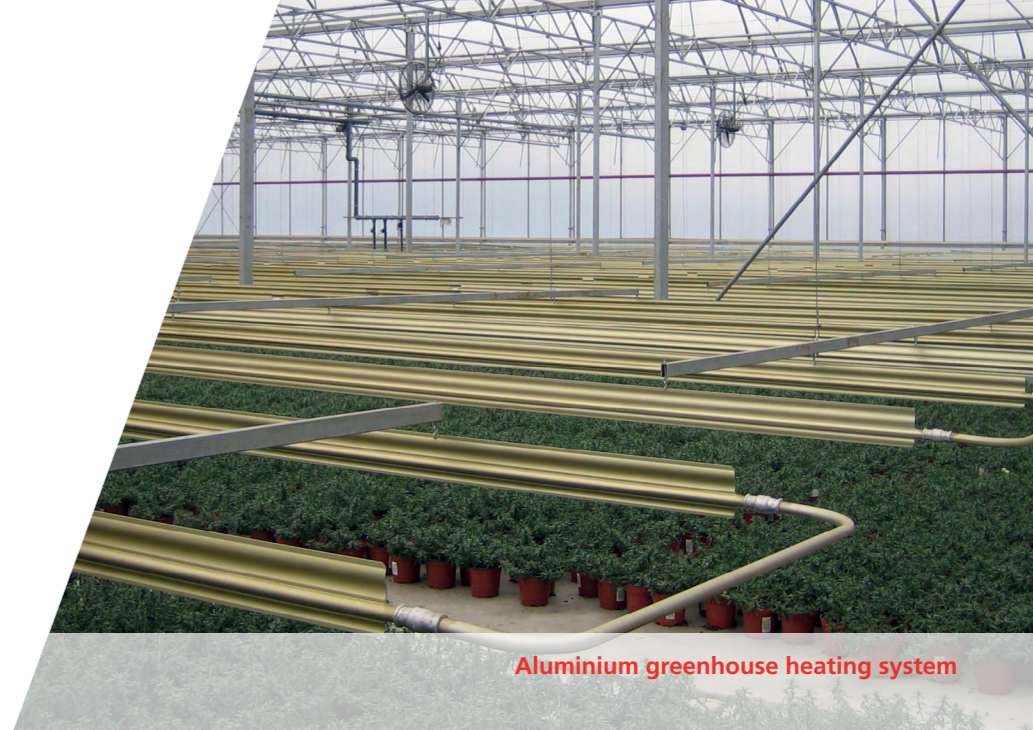
Modern horticulture is characterised by its high degree of automation. Alcomij has been involved in the automated horticulture industry for many years. We produce aluminium benches, smart flower trolleys and steel crates. The knowledge and experience obtained following an intensive development and test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

Aluminium growing benches

Our aluminium mobile benches help your customer to utilise the growing surface as efficiently as possible. For each project, we customise the mobile benches to the specific wishes and requirements concerning health & safety, hygiene, productivity, loads and available space. We are also actively involved in specific cultivation developments. This means that we have a customised system for every nursery.

These sleek and robust designed mobile benches are fully tailored

to your customer's specific requirements and manufactured by us in-house. These aluminium benches can also be delivered in parts. There are some restrictions to assembling these benches on site, however, due to the welding smoke, the required process controls and the expertise needed for welding these benches. For the export we therefore also offer a fully patented screwed mobile bench design. One that due to the smart screw connections and accompanying installation template can easily be assembled locally without specific knowledge.



Aluminium greenhouse heating system



Aluminium mobile bench

Roller benches

The Alcomij roller bench is essentially a fixed growing bench, however the smart design allows the bench to manoeuvre from left to right easily without compromising its stability. This enables the grower to organise the cultivation area as efficiently as possible while retaining the effective working space between the roller bench.

The bench comes as a construction kit, complete with a galvanised steel support structure and crop-specific base. Thanks to the easy-to-understand

instructions, prefab parts with smart connection techniques, accessories and corner pieces, it is easy to assemble the roller bench on site

Aluminium trolleys

Since 1985 we have been developing and producing trolleys. We were involved in the development of the flower trolley for FloraHolland. This resulted in all our lightweight aluminium 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 flower trolleys.

Advantages of our 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

Our multifunctional and fully dismantlable steel crates have been used for many years within the food industry for the storage and distribution of plastic packaging.

Our steel crates are hot-dip galvanised and are seamlessly tailored to the specific wishes and demands with respect to food safety, permitted loads, and health & safety. The crates are stackable and can be easily dismantled or even folded.

Ideal for when not in use and less storage or transport volume is available.

The stackable crates can be equipped with a dividable top rack, so that employees can easily reach the bottom of the crate. Due to our smart stackable racks, the steel crates can be divided into two layers. This means that the crates can be loaded to their maximum capacity without damaging the lower product layer. Ideal for making optimum use of the loading capacity of your lorries.



Aluminium trolleys

Steel crates

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