



Drainage gutter & spacer

for hydroponic greenhouse substrate bags

HydroQuick



i h e l l o !

HydroQuick, the **elevated gutter** for cultivation in substrate bags is an innovative system manufactured by Flome to **optimize and facilitate hydroponic crop installation**. It combines both the drainage channel and the spacer into one.

Our gutter streamlines and speeds up the installation of hydroponic crops, offering a more efficient and cost-effective solution compared to conventional systems. With no clipping system required, it eases the assembly and disassembly of the base without additional tools, simplifying cleaning and maintenance.

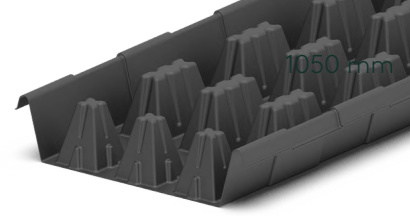
Its unique design directs the water drainage towards the end of the line, preventing water stagnation and the proliferation of pathogens, while ensuring the aeration of the root area, securing an optimal condition for the roots.

HydroQuick offers a series of significant benefits:

- **Simplified installation and maintenance**
- **Flexibility and adaptability to the type of field**
- **Reduced labor required**
- **Improved crop quality**
- **Easy assembly, disassembly, and cleaning**

Achieve a **faster and more **agile** hydroponic installation**

HydroQuick



Easy, simple installation and maintenance

- Quick and simple installation and maintenance, with no need for clipping.
- Less labour required for installation.
- Easy assembly and disassembly, without additional tools.
- Ease of cleaning and maintenance.
- High durability to external factors.

Efficiency in resource use

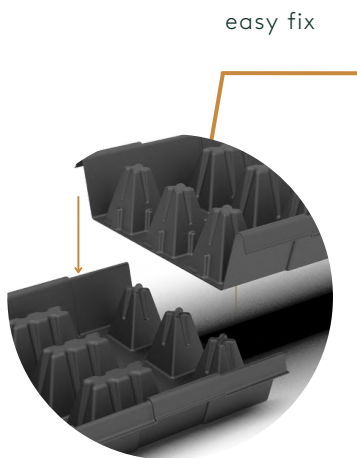
- Enhances and optimizes the reuse of water.
- Savings in installation costs, production, and labour.
- Do not require trenches or gravel for the installation.
- Made with recycled plastic.

Flexible and adaptable

- Adaptable to any space: the gutters connect very easily to achieve the right length.
- Flexible: for small farms or large fields, whether outdoors or in a greenhouse.

Improving crop quality

- Prevents water stagnation and soil deterioration.
- Greater control over crop growth and better production quality.
- Provides a consistent level of moisture at all times, regardless of the weather or growth stage of the crop.
- Boosts air flow in the root area.
- Reduction of soil diseases and improved crop health.



channel and spacer in one

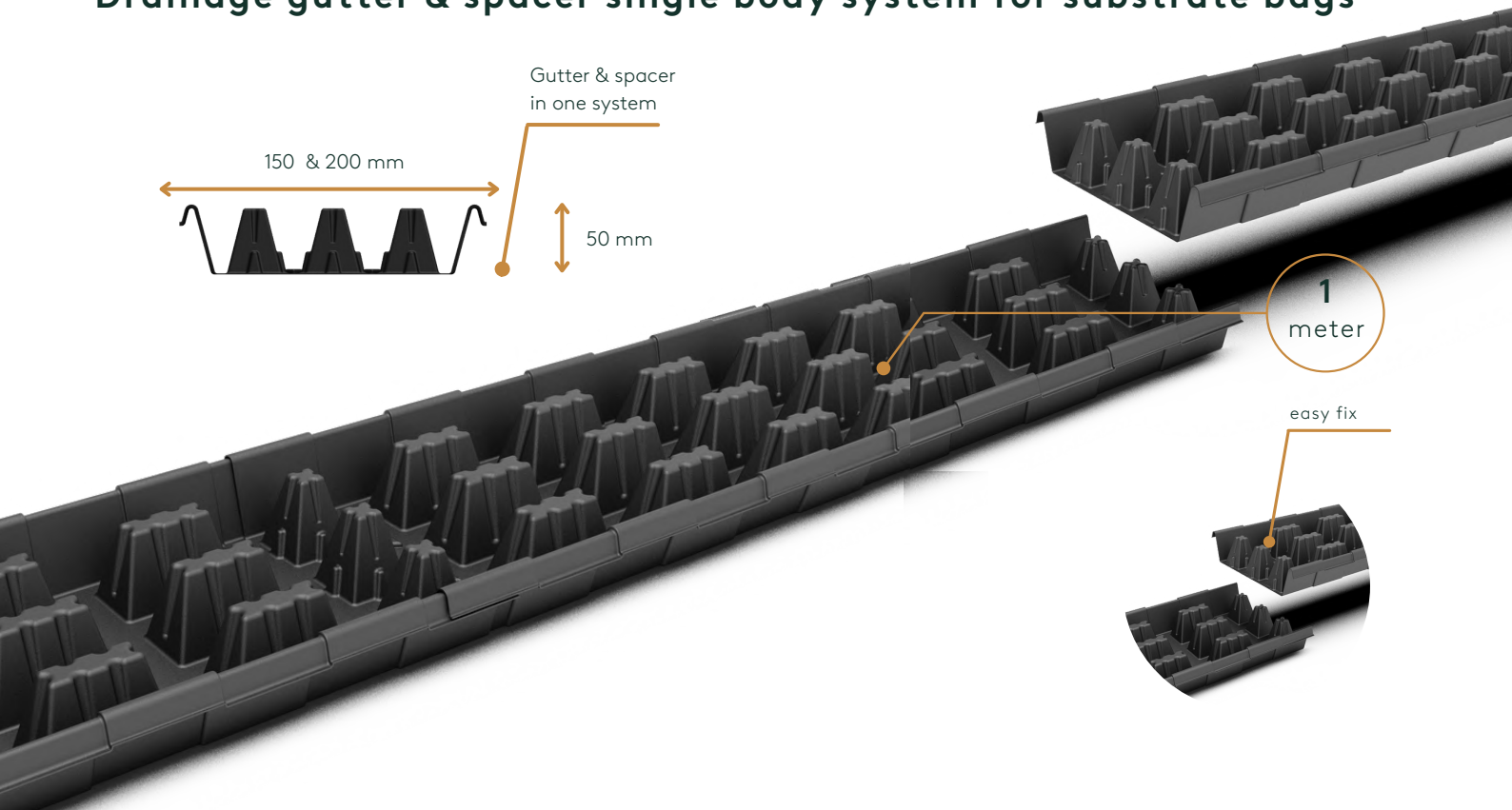
1 meter

Technical Data

HydroQuick



Drainage gutter & spacer single body system for substrate bags



Properties

HydroQuick 150

HydroQuick 200

Material

100% recycled polypropylene

100% recycled polypropylene

Weight

250gr/m

300gr/m

Operational lifespan

7 years*

7 years*

Maximum load

70 Kg/m. With evenly distributed load

80 Kg/m. With evenly distributed load

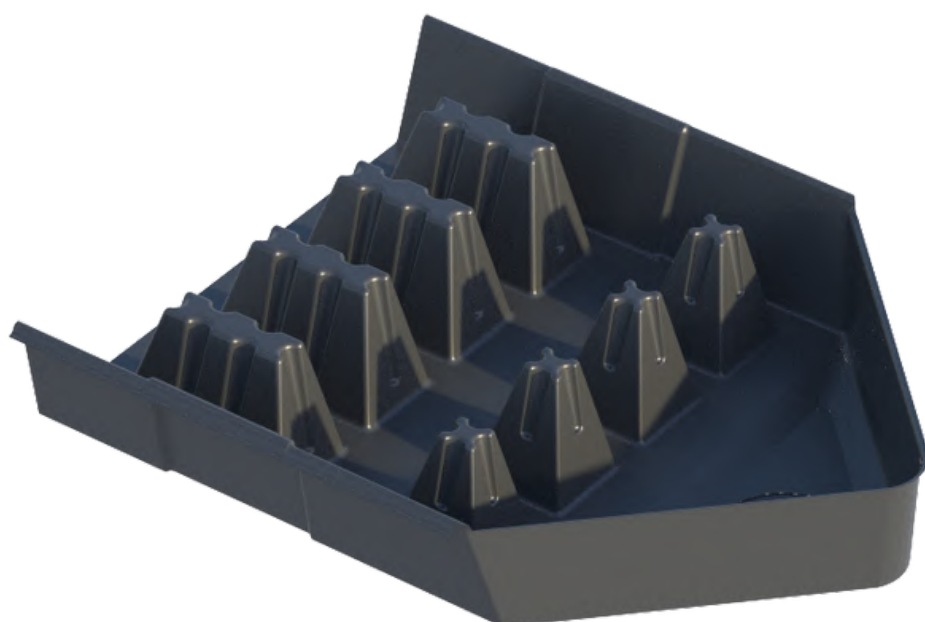
*Estimates made within a greenhouse with temperatures between 18° - 50°C, provided that there are no periods of inactivity and the material is not subjected to unsuitable agrochemical products.

This technical data sheet may be subject to changes due to future updates of the product.

Accessory components

Start/End-of-line drainage system for

HydroQuick



i h e l l o !

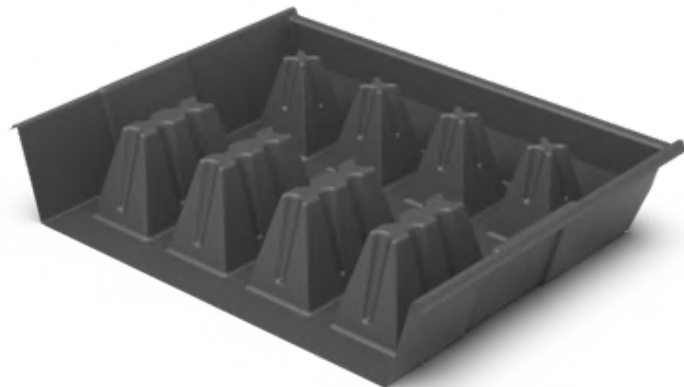
EndCap and StartCap are essential components of the HydroQuick system. The **EndCap drains water** from the cultivation line into the drain pipe, enabling water **recovery**. Meanwhile, the **StartCap** is installed at the beginning of the gutter line to **block dust, dirt, and contaminants**, helping maintain cleaner and more controlled growing conditions.

The **EndCap** offers a series of significant benefits:

- **Recovery of irrigation water**
- **Simplified installation and maintenance**
- **Flexibility and adaptability to the type of field**
- **Reduced labor required**
- **Easy assembly, disassembly, and cleaning**

Achieve a **faster and more
efficient hydroponic
installation**

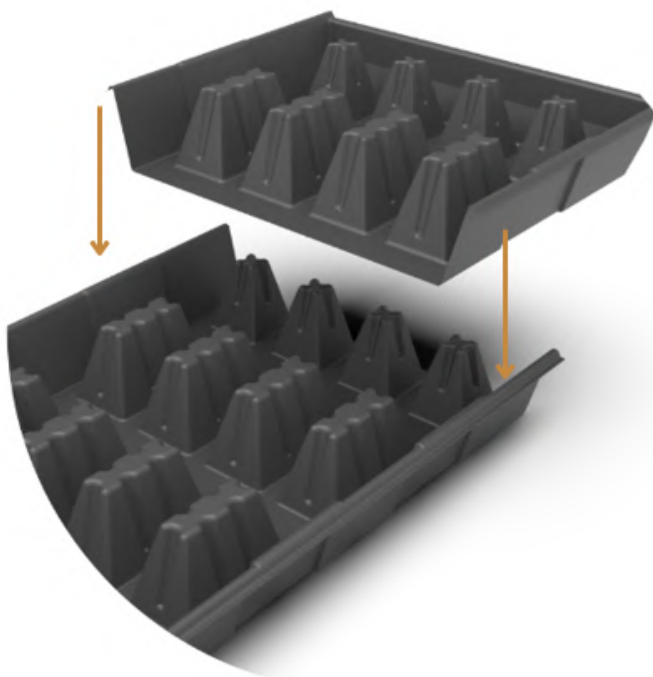
StartCap



System components

StartCap is a one-piece cap that is installed at the start of the HydroQuick gutter line. Its design allows it to be easily assembled, blocking the entry of dust, dirt and other contaminants present in the crops. This helps to keep the growing system conditions cleaner and more controlled.

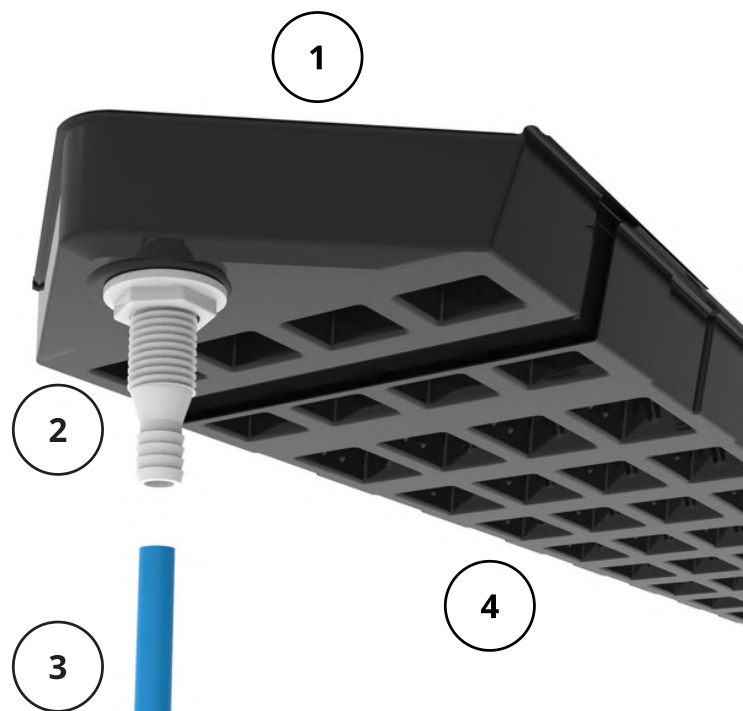
Assembly



EndCap

System components

1. EndCap
2. Bulkhead connector
3. Hose
4. HydroQuick

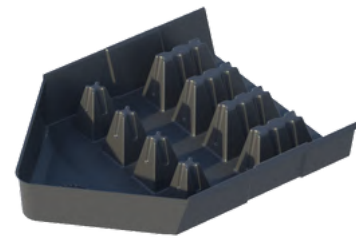


Assembly

1. HydroQuick is positioned above EndCap
2. Fit the bulkhead connector to the EndCap
3. Attach the hose to the bulkhead connector



End Cap



System requirements

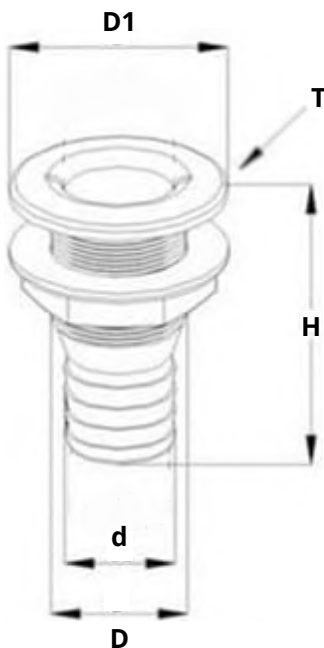
Hose

This is the hose or pipe connected to the water outlet adapter. In Spain and Morocco, there is no specific regulation on the size of the tube, so it is specified according to the flow rate it needs to support. According to our estimates, a tube of between Ø16-25mm would drain the water from more than 300 plants with a consumption of 3L per plant per day.

Bulkhead connector

This is the adapter that allows the hose to be attached to the water outlet. This will be installed in the Ø50 mm hole located in the deepest part.

There are four dimensions to consider for this component:



T - Thickness of top ring

- Recommended thickness: between 1-3,5 mm
- Maximum thickness: 5 mm

D1 - Top ring diameter

- Recommended thickness: between Ø55-75 mm
- Maximum thickness: Ø80 mm

D - Thread thickness

- Single measure: Ø50 mm

d - Size of hose or threaded adapter

- The installer has the freedom to choose a bulkhead connector with an outlet in hose format, or with threaded coupling as required.

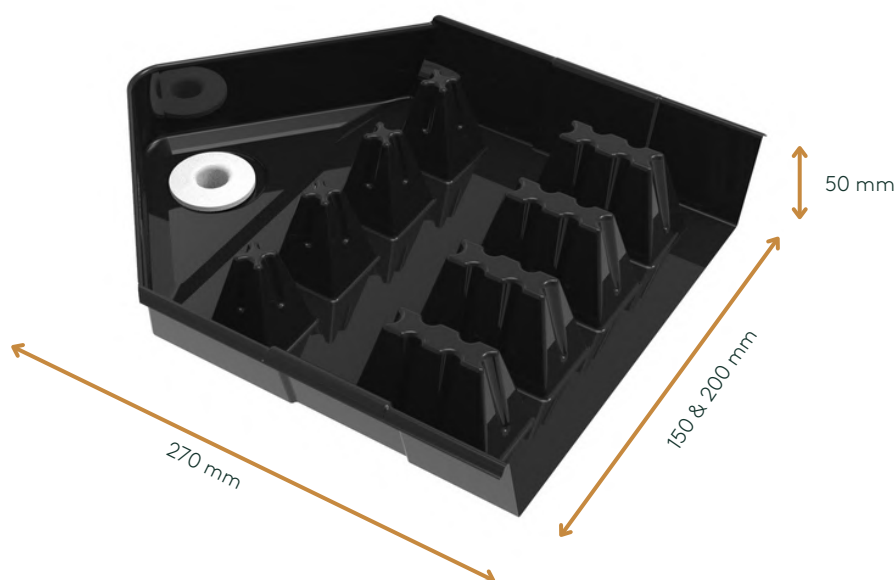


- ✳ If a water outlet for the hose in horizontal direction is required, we recommend the use of bulkhead connectors with elbows that comply with the above-mentioned dimensions.

Technical Data

EndCap

End-of-line drainage system



Properties

Material	100% recycled polypropylene
Weight	250gr/m
Operational lifespan	7 years*
Maximum flow rate	24 L/min.

*Estimates made within a greenhouse with temperatures between 18° - 50°C, provided that there are no periods of inactivity and the material is not subjected to unsuitable agrochemical products.

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