

About capillary mattings

Why capillary mattings?

A capillary matting distributes and buffers water evenly over pot plants and should be described as the final link between nature and science during cultures.

A functional and efficient operating capillary matting is essential for creating an appropriate end product during cultures.

Using capillary mattings offers several advantages:

- ✓ Water delivery/supply from underneath, which has a positive effect on the development of plant roots in pots.
- ✓ Investments in expensive and complicated pipe systems are unnecessary.
- ✓ Offers flexibility, enables growing of several different types of pot plants on one particular type of capillary matting.
- ✓ Good accessibility; swift and flawless culture changes.
- ✓ Less vaporization of water.
- ✓ Low investment costs.
- ✓ Low system maintenance costs .

Two factors play an important role in the decision making process for capillary mattings:
capillary action and **water capacity**.

The term **capillary action** refers to the degree in which the capillary matting distributes water evenly over the entire surface. **Water capacity** is closely related to the buffer function of a capillary matting, and simply states the amount of water it is capable of holding.

Why choose for capillary mattings from Henofa?

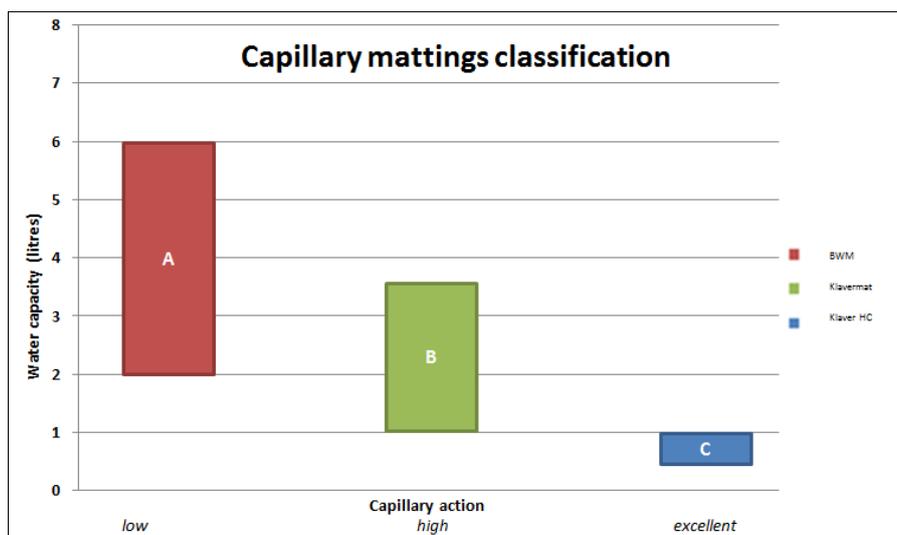
Henofa BV offers a complete product range of different types of capillary mattings, divided into three groups. For every type of culture, Henofa produces and delivers the most suitable capillary matting. Thereby, our experience and craftsmanship enables us to offer suggestions and solutions for all inquiries.

The graph listed below provides an overview of the three different groups/types of capillary mattings from Henofa, based upon two variables, **capillary action** and **water capacity**.

A-group A high water capacity combined with low capillary action

B-group A high water capacity combined with high capillary action

C-group Excellent capillary action combined with a low water capacity



The table listed below provides more information about the graph/classification of the capillary mattings.

	BWM	Klavermat	Klavermat HC
Capillary action	Low	High	Excellent
Water capacity	3,0 – 6,0 liters per square meter	1,5 – 3,5 liters per square meter	0,5 – 1,20 liters per square meter
Material	Recycled synthetic fibres	New synthetic fibres	New synthetic fibres
Additional options	- Anti-algae foil - Ground cover	- Anti-algae foil - Ground cover	Large widths till 480cm
Group classification	A	B	C

BWM capillary mattings

The first group consists of the standard BWM capillary mattings. These type of capillary mattings are being manufactured from 100% recycled synthetic fibres, and do not contain any jute or cotton fibres. Jute and cotton, which are both natural fibres, have some tendency to rot and create mould.

This product offers a high water capacity in combination with low capillary action. For growers changing their culture system each year, the BWM capillary mattings are an excellent choice. It is also used frequently on (selling) tables and Danish trolleys.

BWM 200

Weight: 200 gr/m²
Length: 40 or 50 meter

Width: 8 cm to 250 cm
Water capacity: 3,0 – 4,0 liters per square meter

BWM 300

Weight: 300 gr/m²
Length: 40 or 50 meter

Width: 8 cm to 250 cm
Water capacity: 4,0 – 5,0 liters per square meter

BWM 400

Weight: 400 gr/m²
Length: 40 or 50 meter

Width: 8 cm to 250 cm
Water capacity: 5,0 – 6,0 liters per square meter

* Non standard dimensions available on request



Klavermat capillary mattings

The Klavermat capillary matting is produced from 100% new, high-quality, virgin synthetic fibres and enjoys an excellent reputation in the horticultural sector.

An unique feature of the Klavermat is that each fibre has exactly the same characteristics and structure. The capillary matting thereby distinguishes itself due to its robustness, chemical permanency and consistent operation. This eventually leads to a reproducible and consistent water delivery. The standard colour of the Klavermat is black.

Klavermat 125

Weight: 125 gr/m²

Length: 75 meter

Width: 8 cm to 250 cm

Water capacity: 1,0 – 1,5 liters per square meter

Klavermat 200

Weight: 200 gr./m²

Length: 75 Meter

Width: 8 cm to 250 cm

Water capacity: 2,0 – 2,5 liters per square meter

Klavermat 300

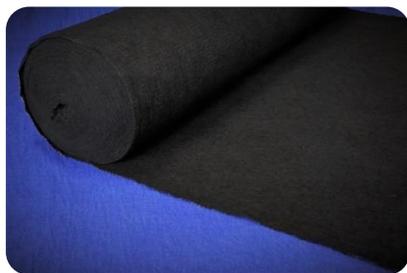
Weight: 300 gr./m²

Length: 75 Meter

Width: 8 cm to 250 cm

Water capacity: 3,0 – 3,5 liters per square meter

* non standard dimensions available on request



Klavermat HC capillary mattings

When looking for an excellent capillary action, the Klavermat HC capillary mattings offer the solution. The mattings are produced from 100% new, high-quality virgin synthetic fibres and the colour is white.

Whereas several competitive and comparable products contain viscose, the Klavermat HC capillary mattings are completely free of viscose. Viscose is biodegradable and could lead to diseases and/or moulds spreading in the water delivery system, leading to failures.

Advantages of the Klavermat HC:

- ✓ Excellent capillary action combined with a low water capacity.
- ✓ The Klavermat HC capillary mattings are capable of eliminating an oversupply of water.
- ✓ Due to its excellent capillary action, it is possible to overcome small differences in heights, for example on small hills.
- ✓ Can be used in all different types of eb and flow systems, that is possible due to the excellent and swift capillary action.

When using a Klavermat HC capillary matting during cultures, it is possible to lower the relative air humidity around plants, as you can provide less water more often. This lowers the chances of moulds, algae and infections.

Klavermat HC 80

Weight: 80 gr/m²
Length: 200 meter

Widths: 10, 12, 100, 120, 150, 160, 180, 200, 220, 330, 480 cm
Water capacity: 0,4 – 0,8 liters per square meter

Klavermat HC 100

Weight: 100 gr/m²
Length: 100 meter

Widths: 100, 120, 150, 160, 170, 180, 200, 220, 330, 480 cm
Water capacity: 0,8 – 1,2 liters per square meter



Cover materials

When making the choice to use capillary mattings, many growers forget the role of cover materials in the functioning of the capillary matting and the water delivery system as a whole. With cover materials, we mean anti-algae foil and groundcover.

The most important functions of cover materials are:

- ✓ Prevention of root growth in the capillary matting, so-called “rooting through”.
- ✓ Prevention of algae growth in the capillary matting.
- ✓ Prevention of unnecessary evaporation.
- ✓ Extends the economic life duration of the capillary matting.
- ✓ Protects the matting against mechanical influences, such as walking, sweeping etc.

When purchasing cover materials and capillary mattings from Henofa, your customer is assured of a high-quality, reliable, efficient and complete water delivery system!

During production, it is possible to equip the capillary matting types Klavermat 125, 200, 300 and BWM 200, 300 and 400 with a groundcover or anti-algae foil. This leads to savings in set-up costs.

Anti-algae foil

Anti-algae foil is available in the colours white, black and symbol foil. The symbol foil consists of different symbols, which are placed fixed distances from each other. This enables the grower to spread pot plants during cultures (more) accurately.

Dots	124 millimeter	74,7 pots per square meter
Circles	142 millimeter	57,7 pots per square meter
Triangles	166 millimeter	42,9 pots per square meter
Squares	199 millimeter	30,2 pots per square meter

Abbreviation

+ BF
+ WF
+ SF
+ BGC

Description

Black **F**oil – black anti-algae foil 30 My
White **F**oil – white anti-algae foil 30 My
Symbol **F**oil – black anti-algae foil with symbols 40 My
Black **G**round **C**over – BGC 100

The description BGC 100 refers to a groundcover with a weight of 100 gr./m². During production, the groundcover is needed directly on the capillary matting, resulting in a strong product and perfect transition between fibres and cover material.

Please note that during production, anti-algae foil is wrapped loose on the roll, whereas groundcover is needed directly on the capillary matting!



Company information

Since being established in 1993, Henofa has grown into an internationally operating producer and supplier of needle felt and nonwovens. In the horticulture sector, a very strong market position has been captured with self-developed, own brand name products, on both at national and international level.

Our products are being sold worldwide, including in the Netherlands, Germany, Belgium, United Kingdom, Italy, Spain, Portugal, Denmark, Sweden, Norway, Finland, Switzerland, Hungary, Estonia, Latvia, Brazil and the United States.

Henofa BV stands for quality, service, reliability and flexibility. Due to the acquired knowledge and experience in the field, we are able to fulfil an advisory role in every step of your (customer) process. That makes us a very complete and effective partner.

In this catalogue you will find an overview of our range of capillary mattings.

If you have any questions and/or remarks, please do not hesitate to contact us.

HENOFA BV

Het Wegdam 13
7496 CB Hengevelde – NL

Tel: +31 (0)547 33 42 49

Fax: +31 (0)547 33 42 53

E-mail: info@henofa.com

