

Platon – The Original from the Inventor



Millions of square metres of green roofs

Green roofs have a long tradition in Norway. In the extreme climate, they have continued to show outstanding performance up until the present day.

On many green roofs, not just in Scandinavia, the Platon system of studded mats acts as underlay for flat and sloping green roofs. Several million square metres are a positive indication of trust in our products among leading green roof suppliers and installers.

More than 50 years of quality

As the inventor of the studded membrane, Isola can show years of experience with the Platon system. A range of applications for floors, foundations, internal walls and other technical installation, not just in the area of green roofs, prove the reliability and durability of our products.

Valuable raw materials for lasting quality

Isola relies on high quality raw materials in order to achieve a long service life under the strain of climatic influences. Alongside virgin raw materials, internally recycled plastic from our own production lines is also used.



Obvious benefits for drainage mats

You get all the benefits with a Platon drainage and storage mat from Isola. These solutions have distinct advantages, compared with traditional constructions using bulk materials.

- Much lighter
- Large water storage capacity up to 10 l/m²
- The smooth contact surface prevents damage to the roof waterproofing in contrast to sharp edged bulk materials
- Drainage and storage mat acts as a separation layer
- Less work due to fast and simple laying



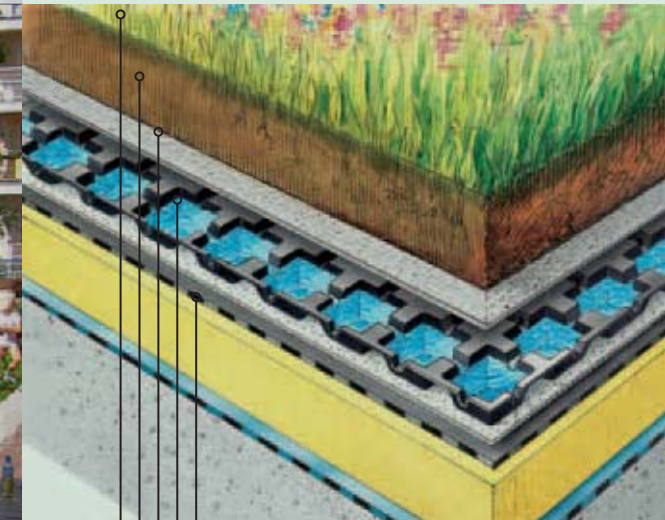
Two different requirements; two perfect solutions

Depending on the general climatic conditions, rainfall and the plants used, the storage requirements and the drainage performance of a green roof can vary greatly. With two storage and drainage mats, Isola offers perfect solutions for safe and compatible green roofs.

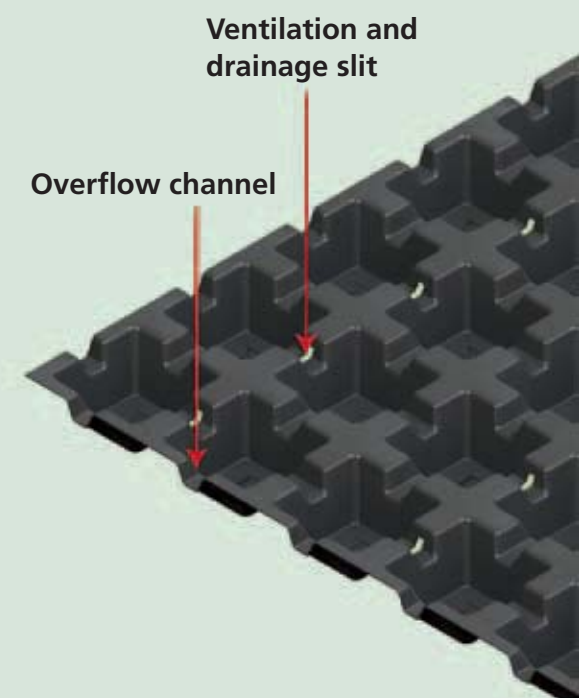
- Platon DE 40/500 – The storage giant
- Platon DE 25 – The universal product



Typical structure of a green roof



- Roof structure with insulation, roof waterproofing and root protection layer
- Platon® DE 25 / DE 40/500
- Non-woven filter fabric
- Substrate
- Vegetation



Platon DE 40/500 – The Pressure-Resistant Storage Giant



With a water storage volume of 10 l/m² and a stud height of 40 mm, the Platon DE 40/500 is the storage giant among green roof elements.

Platon DE 40/500 is capable of storing large volumes of water and discharging it over a period of time. The linked chambers ensure the optimal distribution of water and nutrients.

On extensive green roofs, it allows the use of plants with a low level of resistance to dry periods and extends the intervals between necessary watering.

Outstanding drainage performance

On the underside of the mat, studs form a drainage layer that provides high drainage. Excess water may be safely drained without any problems.

With a drainage capacity of 3.85 l/(m·s) at 2% slope, the Platon DE 40/500 is clearly ahead of the competition.

Simple and fast processing

Platon DE 40/500 is supplied in sheets 1.29 x 2.23 m. This size ensures fast and rational installation. The product is packed flat, for easy handling on site.



Effective irrigation

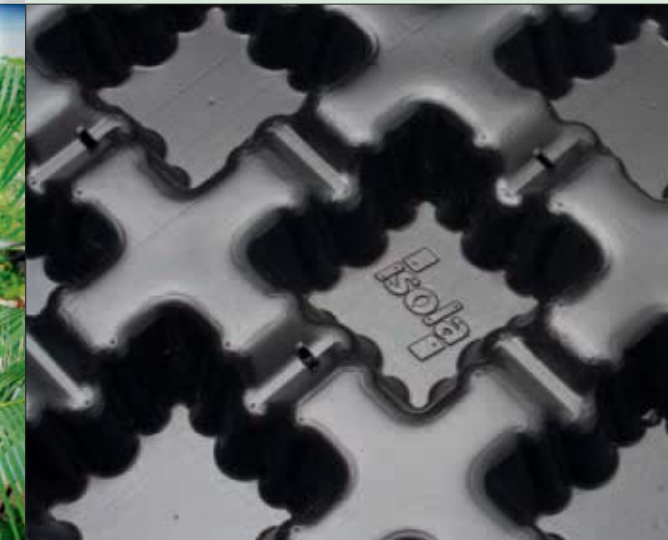
The integrated channels of the DE 40/500 allow simple installation of irrigation systems. The chambers are thereby filled directly, ensuring effective irrigation with less water consumption.

High pressureresistance

Very high pressureresistance and stability is achieved due to the special design of the chambers.

This means that the load is distributed evenly over the whole surface, allowing roof structures with a higher applied loading.

As a permanent form in the construction, the DE 40/500 ensures continuous drainage over the whole roof surface.



Functions

- High performance water storage and drainage element
- Performs as a permanent form in constructions with foot or light traffic

Advantages

- Up to 10 l/m² water storage
- High pressureresistance of 615 kN/m² (filled)
- Suitable for intensive and extensive green roofs
- Free choice of vegetation layer
- May be integrated into different systems
- Compatible with drinking water
- Neutral to the environment
- Quick and simple to process