

System Platon[®] *DE 25 Green Roofs*



Drainage and water storage system

Platon DE 25: Providing water where it is needed.

Whoever chooses a green roof is not only very wise, but also realises that it is the best way to contribute to an environmental friendly way of life while also succeeding in creating a wonderful 'natural' comfortable environment.

Green roofs contribute to an environmental friendly life-style throughout the year. In summer the room temperature is regulated by the thermal insulation cooling function of the roof. In winter the green roofing element serves as a protective layer to maintain a constant temperature.



In comparison to the traditional roofing elements, green roofing guarantees a longer life duration. Unlike other roofing elements, green roofs succeed to maintain a constant temperature regulation function which prevents temperature fluctuations that can cause damage. This relieves the complete base of the roofing element causing less wear and tear to the complete roof over a long period of time.



A household water System

DE 25 provides the optimal conditions for long term water supply of roof vegetation. The high water storage capacity offers an excellent solution to maintaining various water based vegetation. This offers freedom of choice when deciding which sort of vegetation layer you would like.





Everything is possible

Platon DE 25 is renowned for its high compressive strength. Due to its impact and tear resistance, a unique performance and almost unlimited application enables any special requirement or individual specifications to be fulfilled.



As you can see: it is not just the natural flair that makes green roofs so appealing. It is the logical understanding that also supports this system. So, if you dream of having a beautiful natural green roof to admire and enjoy, then our DE 25 System is the ideal solution for an environmentally neutral, rot proof roof you have been longing for. A decision that you will never regret!

A water storage capacity that makes a difference.

The special stud design of this membrane provides an excellent function that combines drainage and water tanking as one efficient system. (two directional water distribution). The tanking/storage capacity is approximately 6,1 litres /m² Excess water flooding the membrane drains away quick and efficiently by means of diversion.



Functions

*Water storage:
Two directional water distribution in flat roofs*

*High drainage capacity:
Both horizontally and vertically*

Wide choice of vegetation layer

Advantages

Integration possible in different systems

High compression strength

Impact and tear resistant

Drinking water safe

Environmentally neutral

Rot proof

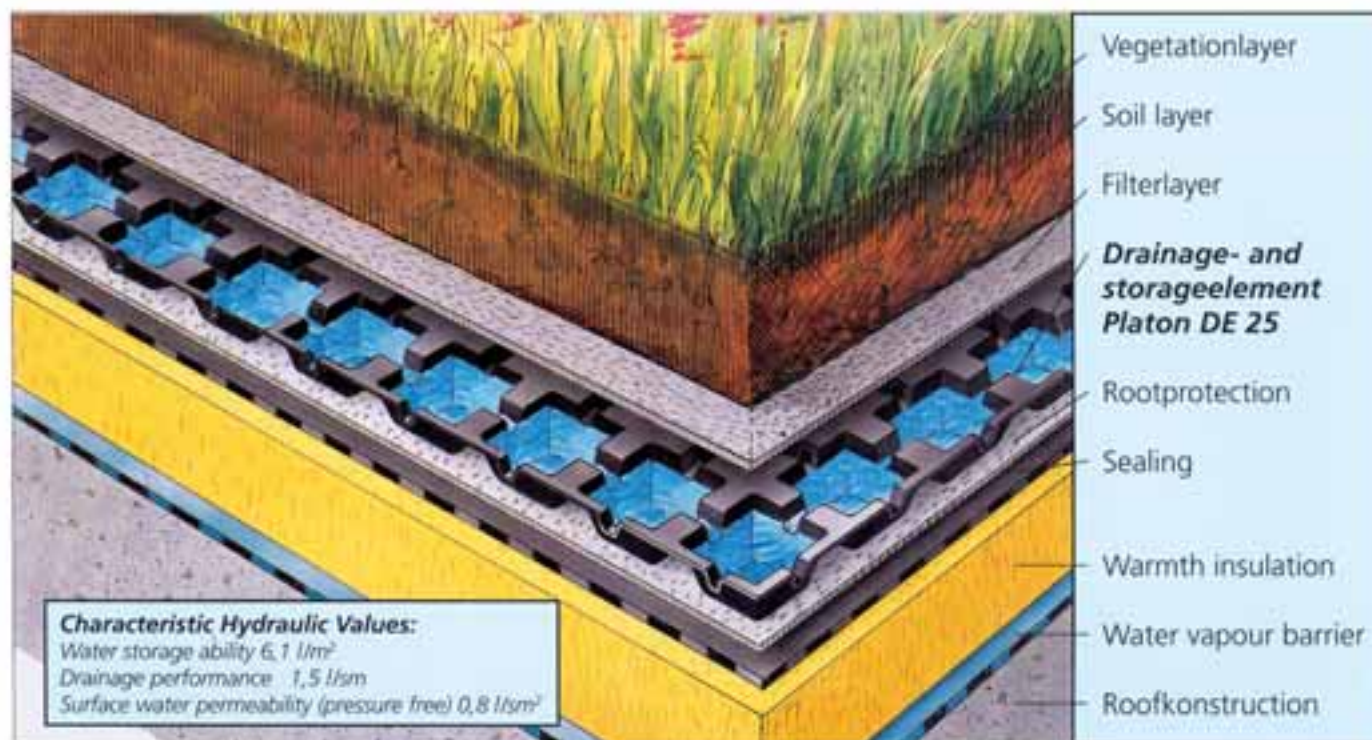
Climatic improvement by use of rain water



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Platon DE 25:

Complete Solutions for green roofs



Technical Data

Membrane material	high density polyethylene
Colour	black
Stud height	23 mm
Membrane thickness	1 mm
Weight	0,96 Kg/m ²
Roll size / dimensions	2,22 x 1,33 m
Packaging	170 plates/palett = 501,94 m ²
Compression strength with 5%	
Compression strength over 50 years	50 KN/m ²
Fire rating	B2
Water storage capacity	6,1 l/m ²
Transmission	bei 3% 1,5 l/sm
(Abteilung parallel zur Fläche)	bei 2% 1,2 l/sm
Permissibility	0,8 l/sm ²
(flächige Wasserdurchlässigkeit ohne Substratvernaessung)	
Life duration	> 50 Years

Further Characteristics

- Impact, tear and abrasion resistant
- Elasticity approx. 65%
- Drinking water safe and environmentally neutral
- Resistant to all chemicals in normal buildings, but not strong oxidation agents
- Resistance to biological attack
- Does not rot or support growth
- Temperature resistance from 50° - 80° C
- Rot proof

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Dry and healthy buildings