



Wallbarn - Technical Datasheet

PD-40P - Protecto Drain 40mm Perforated

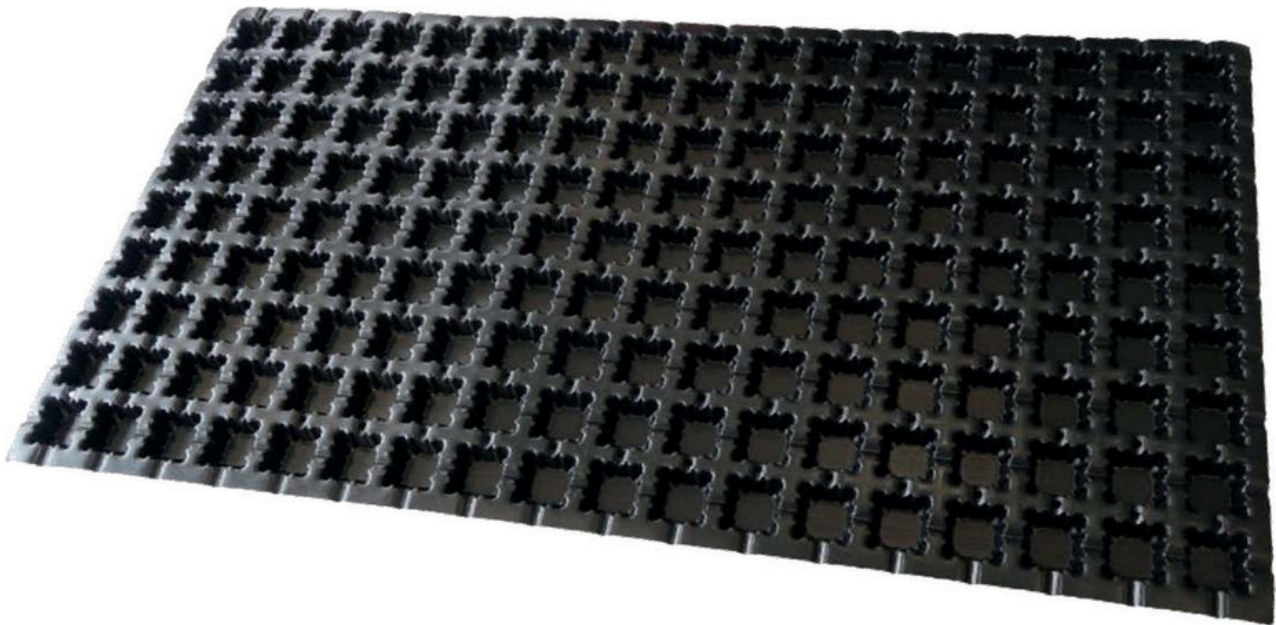
Product Description

Wallbarn Protecto-Drain 40P is a water-storing, perforated dimpled membrane in sheet form and is recommended as an ideal solution for intensive green roofs. Compared to conventional green roof products, it offers effective drainage and water storage capacity and assumes the function of an extremely high-performance drainage and water storage layer in intensive green roofs.

The 40 mm high dimples have a water storage capacity of approx. 15 l/m². This allows the optimal installation of green areas designed to do without irrigation for extended periods. The pressure resistance of approx. 200 kN/m² boasts a striking level of security, thereby corresponding to a compressive strength of approx. 20 tonnes per m².

The dimpled membrane has a unusually high drainage capacity of $i = 0.10$; approx. 3.78 l/s·m, allowing it to be used for very large drainage lengths and/or very low roof slopes. Protecto-Drain 40P is available as a 1.00 x 2.00 m dimpled sheet. The plant substrate can be applied directly on the dimpled membrane after laying a separate geotextile. Thanks to the perforation, the water-storing drainage element is permeable and can also be used for inverted roofs; this prevents a film of water from forming on the inverted roof insulation.

In walkable areas without vegetation, no geotextile is used. The base layer and the bedding material can then be applied directly on the dimpled membrane without changing the material. Then the pavement or slab covering can be laid on top of it.



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IMS.T.1038.v2

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Technical Data

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|---|---|
| Dimpled membrane | HDPE approx. 2,200 g/m² |
| Dimple height | approx. 40 mm |
| Material Thickness | approx. 1.50 mm |
| Total weight | approx. 2.20 kg/m² |
| Number of dimples | 164 dimples/m² |
| Compressive strength | approx. 200 kN/m² |
| Colour | Black |
| Water draining capacity i = 1.00 | approx. 4.30 l/s-m |
| Water draining capacity i = 0.10 | approx. 3.78 l/s-m |
| Water storage | approx. 15 l/m² |
| Sheet Length | 2.00 metre |
| Sheet Width | 1.00 metre |
| Temperature resistance | -30 °C to +80 °C |
| Chem. properties | chemical-resistant |
| Physiolog. properties | safe for drinking water |
| Fire behaviour | Class E |