



Wallbarn - Technical Datasheet

PD-60P - Protecto Drain 60mm Perforated

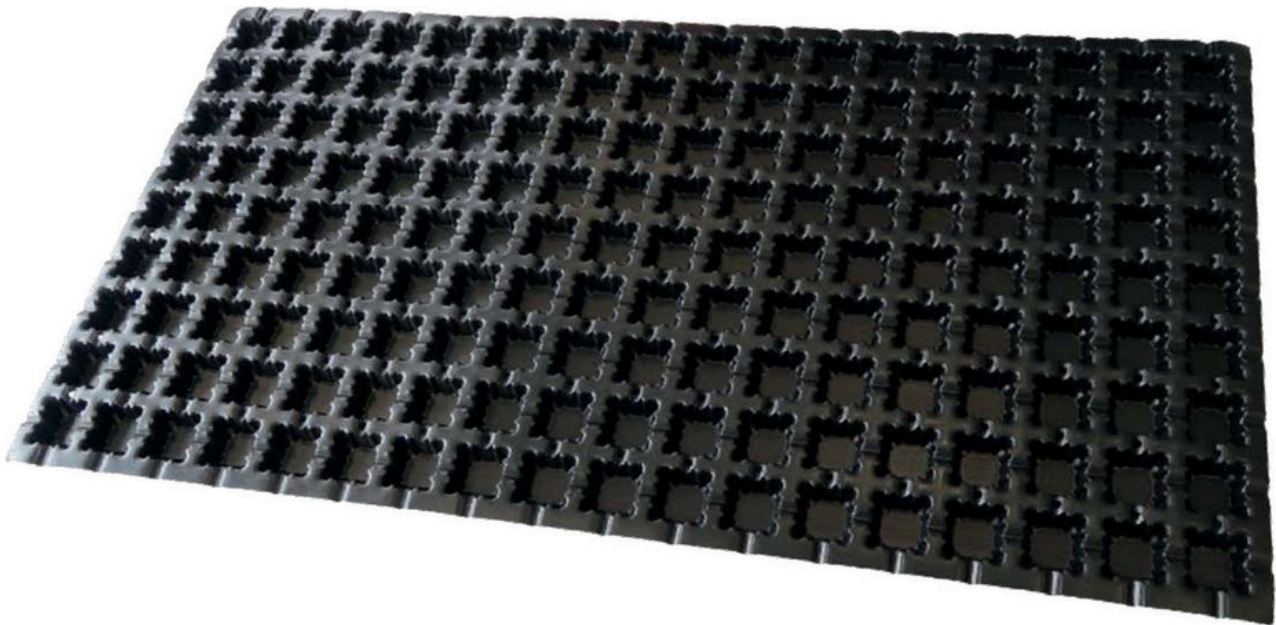
Product Description

Wallbarn Protecto-Drain 60P 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 60 mm high dimples have a water storage capacity of approx. 20 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. 3.86 l/s·m, allowing it to be used for very large drainage lengths and/or very low roof slopes. Protecto-Drain 60P 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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Technical Data

Dimpled membrane	HDPE approx. 2,500 g/m²
Dimple height	approx. 60 mm
Material Thickness	approx. 1.50 mm
Total weight	approx. 2.50 kg/m²
Number of dimples	130 dimples/m²
Compressive strength	approx. 200 kN/m²
Colour	Black
Water draining capacity i = 1.00	approx. 4.48 l/s·m
Water draining capacity i = 0.10	approx. 3.86 l/s·m
Water storage	approx. 20 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