



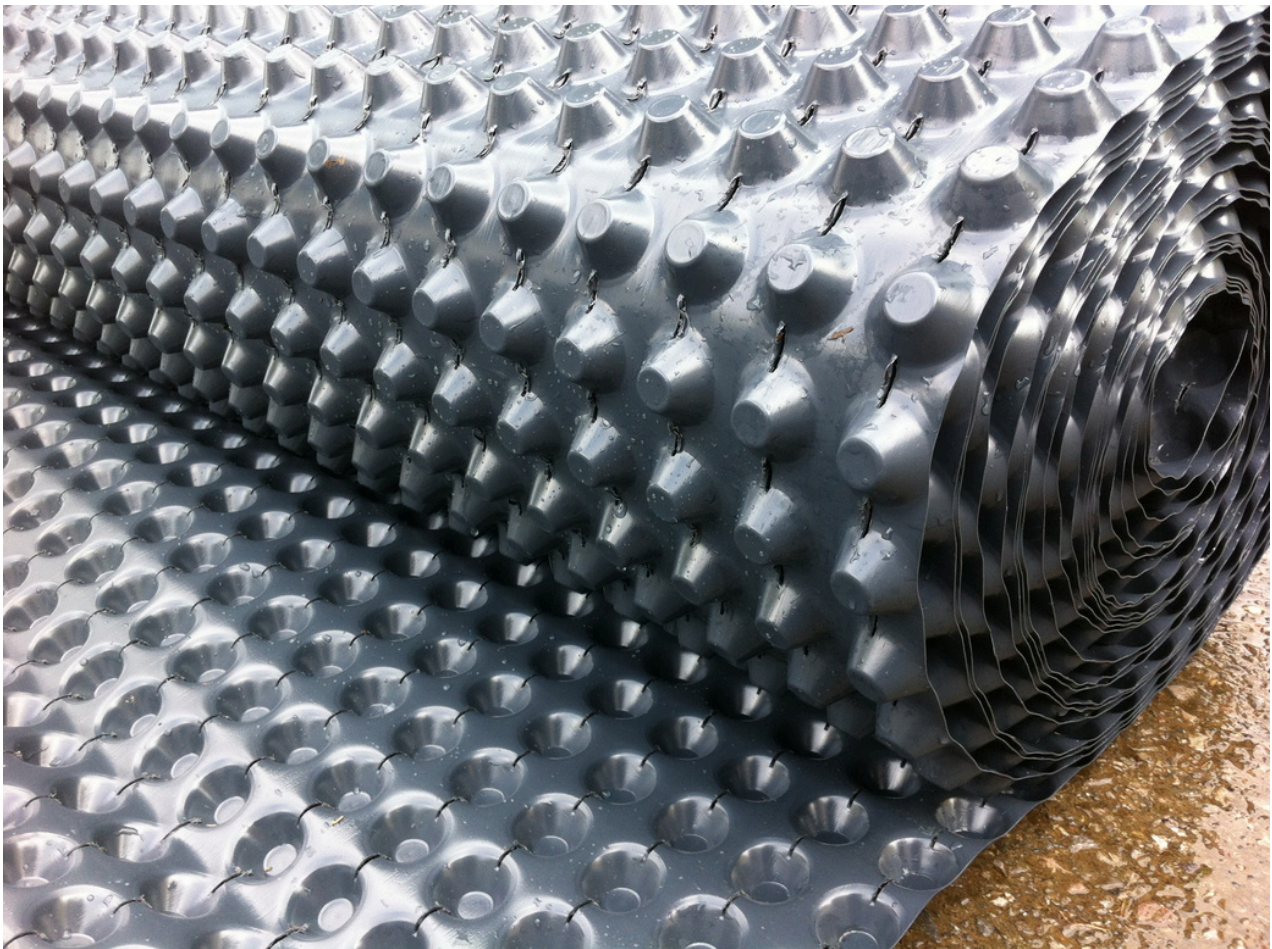
Wallbarn - Technical Datasheet

PD-20P - Protecto Drain 20mm Perforated

Product Description

Wallbarn Protecto-Drain 20P is a water-storing, perforated dimpled membrane and is an ideal solution for extensive and intensive green roofs. The 20 mm dimples have a water storage capacity of approx. 6 l/m². The pressure resistance of approx. 180 kN/m² offers a high level of security, corresponding to a compressive strength of approx. 18 tonnes per m².

The 20 mm dimpled membrane also offers a high drainage capacity of $i = 1.00$; approx. 9.0 l/s·m. It can therefore also be used for very large drainage lengths and/or very low roof slopes. The plant substrate can be applied directly on the dimpled membrane after laying a separate geotextile. Thanks to the perforation, the water-storing drainage membrane 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, and then the pavement or slab covering can be laid on top of it.



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Technical Data

Dimpled membrane	HDPE approx. 1,000 g/m²
Dimple height	approx. 20 mm
Total weight	approx. 1,000 g/m²
Number of dimples	400 dimples/m²
Compressive strength	approx. 180 kN/m²
Colour	Black
Water draining capacity	approx. 9 l/s·m
Water storage	approx. 6.0 l/m²
Roll length	20 m (or on request Roll width 0.5 / 1.0 / 1.5 / 2.0 m)
Air volume between the dimples	approx. 14 l/m²
Temperature resistance	-30 °C to +80 °C
Chem. properties	chemical-resistant
Physiolog. properties	safe for drinking water
Water permeability EN ISO 11058	approx. 100 · 10⁻³ m/s
Fire behaviour	Class E