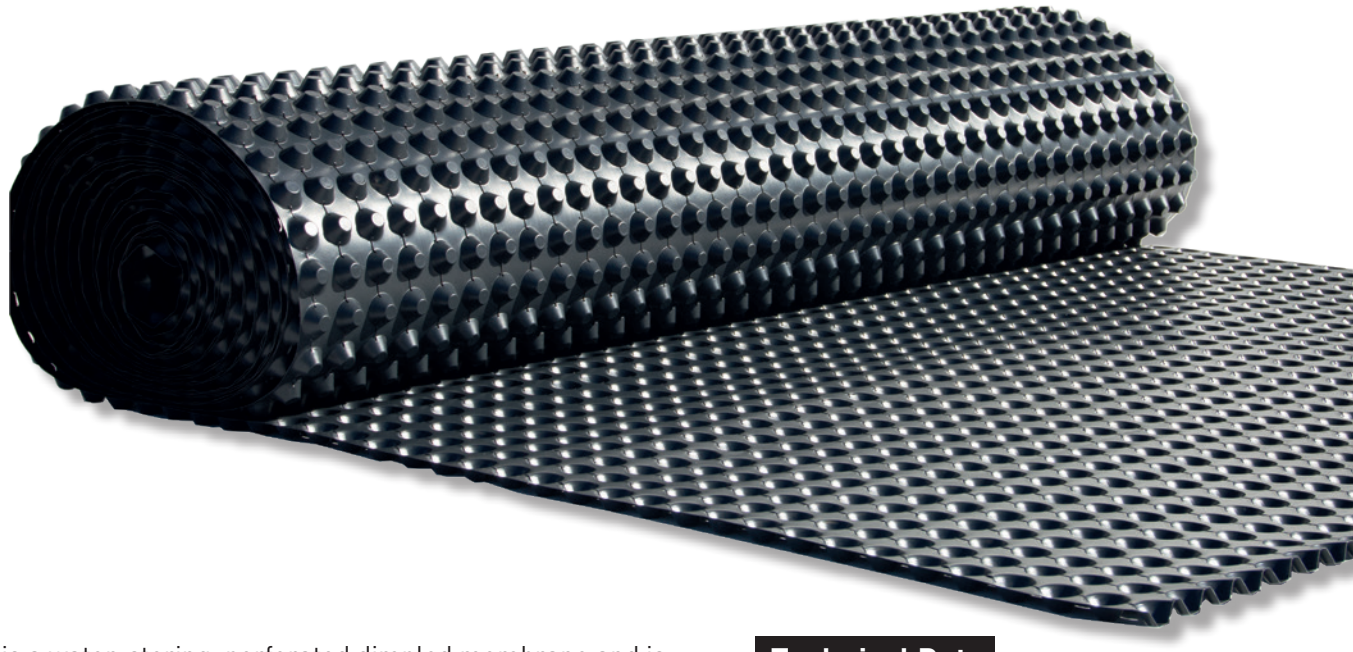
Technical Data Sheet

BREAKTHROUGH FLEXIBILITY

PM P-20



PM P-20 is a water-storing, perforated dimpled membrane and is regarded as an ideal solution for extensive and intensive roof greening. Compared to normal dimpled membranes, PM P-20 offers many times the drainage and water storage capacity and assumes the function of a protective and water storage layer in 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 unusually 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.

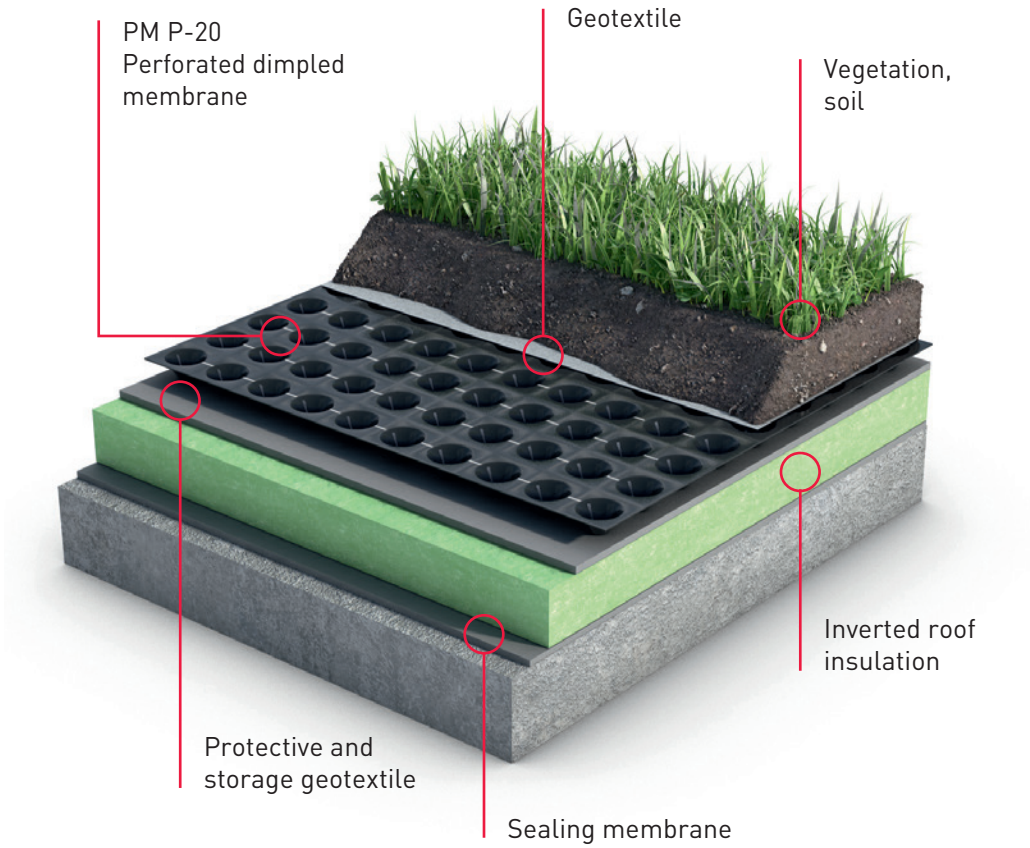
Technical Data

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

For more information, visit **www.pmi-plast.de**

PM P-20

INSTALLATION INSTRUCTIONS



Installation

The waterproofed surface must thoroughly cleaned so that no damage can occur to the waterproofing after laying the drainage membrane. The waterproofing must be root-resistant according to the German FLL Green Roof Guide-line or protected by a root protection membrane. Lay a geotextile as a protective and separating layer with at least 300 g/m² (according to the FLL guideline) on the water-proofing.
PM P-20 is laid horizontally with the dimples to the surface by rolling it out, with the dimple openings facing upwards. The dimpled membranes are overlapped by 10 cm (two rows of dimples). The dimpled membrane can be cut to the required length with a knife, but do not damage the water-proofing. If the laid membranes have to be extended, the connecting membrane is pushed under at least 20 cm from below. The horizontal overlaps must be shingle-like in the direction of the water flow. On rising components, the PM P-20 dimpled membrane should be raised at least 10 cm (2 rows of dimples).
The dimpled membranes are laid step by step. Then install a geotextile as a filter layer over the entire laid surface. The plant substrate can then be applied directly. Professionally install round gravel strips with a width of 30 cm at the roof edges and 20 cm around the roof inlets.

Accessories:
PM EDGE FINISHING PROFILE made of black metal (in 20 mm) | PM BUTYL ADHESIVE TAPE | PM POWER FIX cartridge adhesive

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