Technical Data Sheet

BREAKTHROUGH FLEXIBILITY

PM 2SW-GEOTEX 170

PM 2SW-GEOTEX 170 is an effective protection and drainage system, and the universal solution for both horizontal and vertical surface drainage on all pressure-resistant substrates. PM 2SW-GEOTEX 170 consists of a dimpled membrane and a rugged geotextile. The smooth back side ensures an even load distribution across the waterproofing. This two-layer system protects the waterproofing beneath against mechanical damage and harmful thermal stress. PM 2SW-GEOTEX 170 has a compressive strength of 170 kN/m². The drainage sheet is available in many different length and width variations. The high water draining capacity is multiple times higher than required by drainage standard DIN 4095.

PM 2SW-GEOTEX 170 protects exterior basement walls, roofs of underground car parks that are covered in soil, patios and green flat roofs against becoming waterlogged. The moisture penetrates the geotextile and enters the ducts of the dimpled membrane, where it is securely drained. In the process, the geotextile acts as a filter and prevents the ducts from getting clogged up.

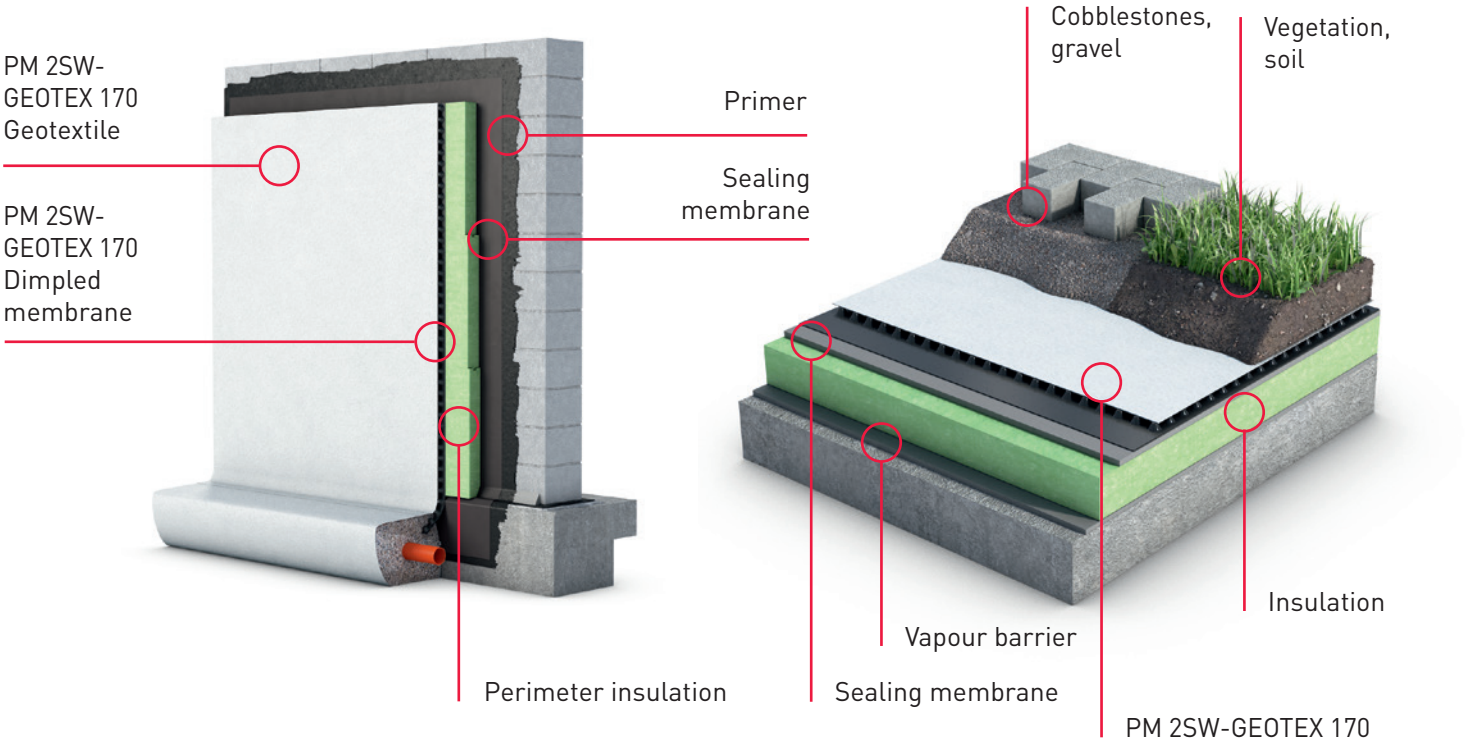
Technical Data

Dimpled membrane	HDPE
Geotextile	polypropylene
Total weight	approx. 550 g/m²
Dimple height	8 mm
Number of dimples	1,840 dimples/m²
Compressive strength	approx. 170 kN/m² = 17 t/m²
Colour	black
Water flow capacity in the plane, rigid – soft; i = 1.0 rigid – soft, i = 0.01 rigid – soft, i = 0.02 rigid – soft, i = 0.03	 approx. 2.24 l/s·m at 20 kPa approx. 0.11 l/s·m at 20 kPa approx. 0.18 l/s·m at 20 kPa approx. 0.28 l/s·m at 20 kPa
Roll width	0.5 / 0.75 / 1.0 / 1.5 / 2.0 / 2.5 m
Roll length	12.5 / 15 / 20 m
Air volume between the dimples	approx. 5.5 l/m²
Temperature resistance	-30 °C to +80 °C
Chem. properties	chemical-resistant
Biolog. properties	resistant to bacteria and fungi, rot-resistant, root-proof
Physiolog. properties	safe for drinking water
Characteristic opening width	approx. 80 µm
Fire behaviour	class E

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

PM 2SW-GEOTEX 170

INSTALLATION INSTRUCTIONS



Vertical installation
In vertical installation, the width of the PM 2SW-GEOTEX 170 dimpled sheet must be adjusted to the sealing height: Up to a height of 1.90 m, the 2 m wide membrane is unrolled on the wall, up to a height of 2.40 m the 2.50 m wide membrane; for all other heights, both membrane widths can be used. The membranes are cut diagonally to the roll to the correct length and laid lengthwise from top to bottom: The geotextile always faces outwards – towards the ground. It is important to ensure that the sides of the individual membranes overlap while lifting the geotextile accordingly. It is recommended to fold the membrane along the edge line at the corners prior to installation. The upper edges of the membranes must be about 15 cm above the sealing at all times. The membrane is first attached temporarily (e.g. with wooden battens) because the drainage membrane is held by the pressure of the earth after backfilling. The final membrane is finally overlapped with the starting membrane over a width of at least 30 cm. The lower end rests on the circumferential drainage. The circumferential drainage is enclosed with at least 15 cm of filter-stable material. After backfilling, simply cut off the membrane at the top edge of the soil.

Horizontal installation
The surface to be drained should have a gradient of at least 2 %. Proceed as follows: Roll out the PM 2SW-GEOTEX 170 on the sealed surface with the geotextile facing upwards. Ensure that the individual membranes overlap correctly, and lift the geotextile accordingly. On rising building components, the drainage membrane should continue up at least 15 cm or to the top edge of the fill. If the installed membranes need to be extended push the connecting membrane underneath at least 20 cm from the bottom. With earth-covered ceilings, the laid drainage membrane can be moved directly with a wheelbarrow; with projecting ground filling of at least 30 cm, this can also be achieved with wheel loaders.

Accessories:
PM MOUNTING BUTTON with specially hardened steel nails | PM EDGE FINISHING PROFILE made of plastic or metal in black or brown | PM BUTYL ADHESIVE TAPE | PM POWER FIX cartridge adhesive

PMI-Plast GmbH | Gewerbegebiet Hülsdonk-Nord | Bullermannshof 10 | 47441 Moers
Telephone: 0049 (0) 2841 880 69-0 | info@pmi-plast.de | www.pmi-plast.de