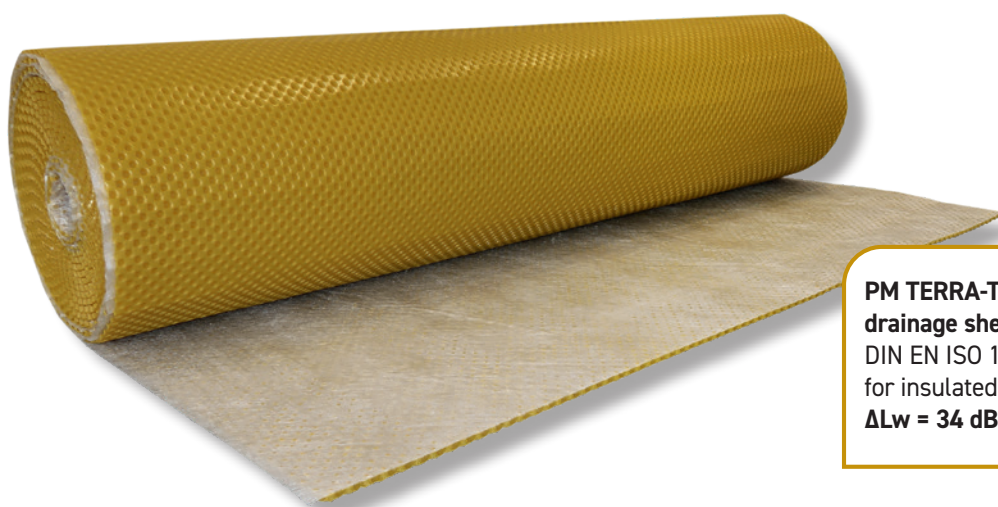


# PM TERRA-TEC



**PM TERRA-TEC is a champion among drainage sheets**, tested and approved to DIN EN ISO 10140 – Impact sound reduction for insulated flat roof structures up to  **$\Delta L_w = 34 \text{ dB}$** .

PM TERRA-TEC is the new champion among the protection and drainage for the product widths 2.00 m, 2.40 m and 2.50 m systems and the best solution for horizontal and vertical surface drainage on all pressure-resistant substrates. PM TERRA-TEC consists of an innovative dimpled sheet with specially reinforced and trowalized dimples for extra high drainage capacity and extreme compressive strength. Due to a particularly large number of dimples and a smooth back the best load distribution and perfect protection on the waterproofing achieved. In addition, a new type of overlapping system according to the push-button principle. This is easy to use and completely regardless of weather conditions for the product widths 2.00 m, 2.40 m and 2.50 m. The laminated high-quality, particularly stable geotextile perfectly rounds off the range of product advantages.

This two-layer system protects the underlying waterproofing safe against mechanical damage, but also against harmful thermal stress.

PM TERRA-TEC has an extreme compressive strength from  $500 \text{ kN/m}^2$ .

The product is available in seven widths from 0.50 to 2.50 m available.

The optimum water drainage capacity is many times higher than required by the drainage standard DIN 4095. PM TERRA-TEC protects external basement walls and underground car park ceilings, Terraces and green flat roofs safe from waterlogging.

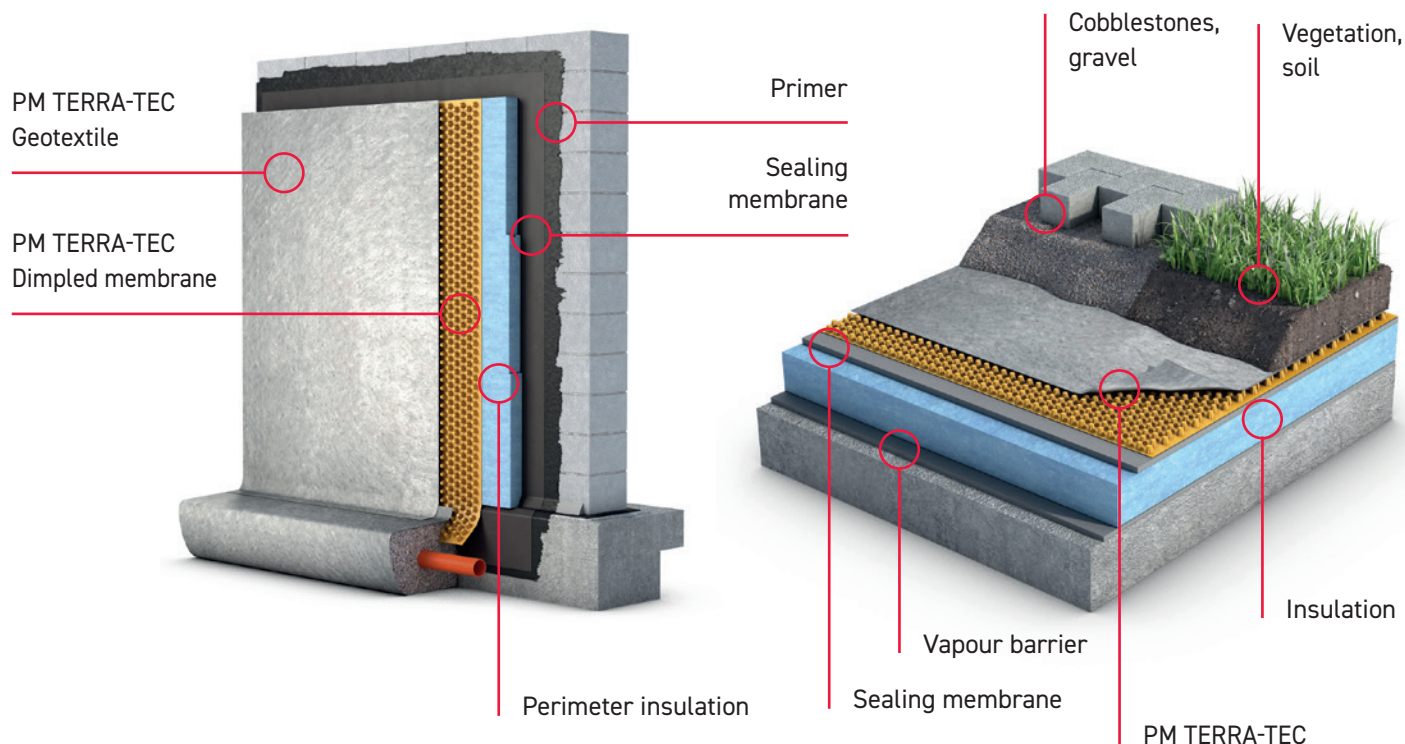
The moisture gets through the geotextile into the dimple channels and is safely discharged there. The geotextile acts like a filter and prevents the nub channels from silting up. The optimal high-performance geotextile has a very high initial strength with minimum deformation under increasing service load.

## Technical Data

Dimpled membrane	HDPE
Geotextile	polypropylene
Dimple height	11 mm
Total weight	approx. $700 \text{ g/m}^2$
Number of dimples	approx. 4,000 dimples/ $\text{m}^2$
Compressive strength	approx. $500 \text{ kN/m}^2 = \text{approx. } 50 \text{ t/m}^2$
Colour	Gelbgold
Water flow capacity in the plane, soft – soft; $i = 1,0$ rigid – soft; $i = 0,01$ rigid – soft; $i = 0,02$ rigid – soft; $i = 0,03$ rigid – soft; $i = 0,05$	approx. $3.15 \text{ l/(s}\cdot\text{m)}$ at 20 kPa approx. $0.24 \text{ l/(s}\cdot\text{m)}$ at 20 kPa approx. $0.35 \text{ l/(s}\cdot\text{m)}$ at 20 kPa approx. $0.45 \text{ l/(s}\cdot\text{m)}$ at 20 kPa approx. $0.60 \text{ l/(s}\cdot\text{m)}$ at 20 kPa
Roll length	12.5 / 15 / 20 m
Roll width	0.5 / 0.75 / 1.0 / 1.5 / 2.0 / 2.4 / 2.5 m
Contact surface to the Substrate	approx. $0.7 \text{ m}^2/\text{m}^2$
Temperature resistance	$-30 \text{ }^\circ\text{C}$ to $+80 \text{ }^\circ\text{C}$
Chem. properties	chemical-resistant
Physiolog. properties	safe for drinking water
Characteristic opening width	approx. $170 \text{ }\mu\text{m}$
Water permeability EN ISO 11058	approx. $100 \cdot 10^{-3} \text{ m/s}$

For more information, visit [www.pmi-plast.de](http://www.pmi-plast.de)

# INSTALLATION INSTRUCTIONS



## Vertical installation

If installed vertically, the width of the PM TERRA-TEC dimpled membrane 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. At corners, it is recommended to fold the membrane along the edge line 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 earth pressure 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 gravel. 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 TERRA-TEC on the sealed surface with the geotextile facing upwards. Ensure that the individual membranes overlap while lifting the geotextile accordingly. With rising building elements, the drainage membrane should be raised at least 15 cm or to the upper edge of the filling. If the laid membranes have to be extended, the connecting membrane is pushed under at least 20 cm from below. With earth-covered ceilings, the laid drainage membrane can be moved directly with a wheelbarrow; with projecting ground filling of at least 20 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