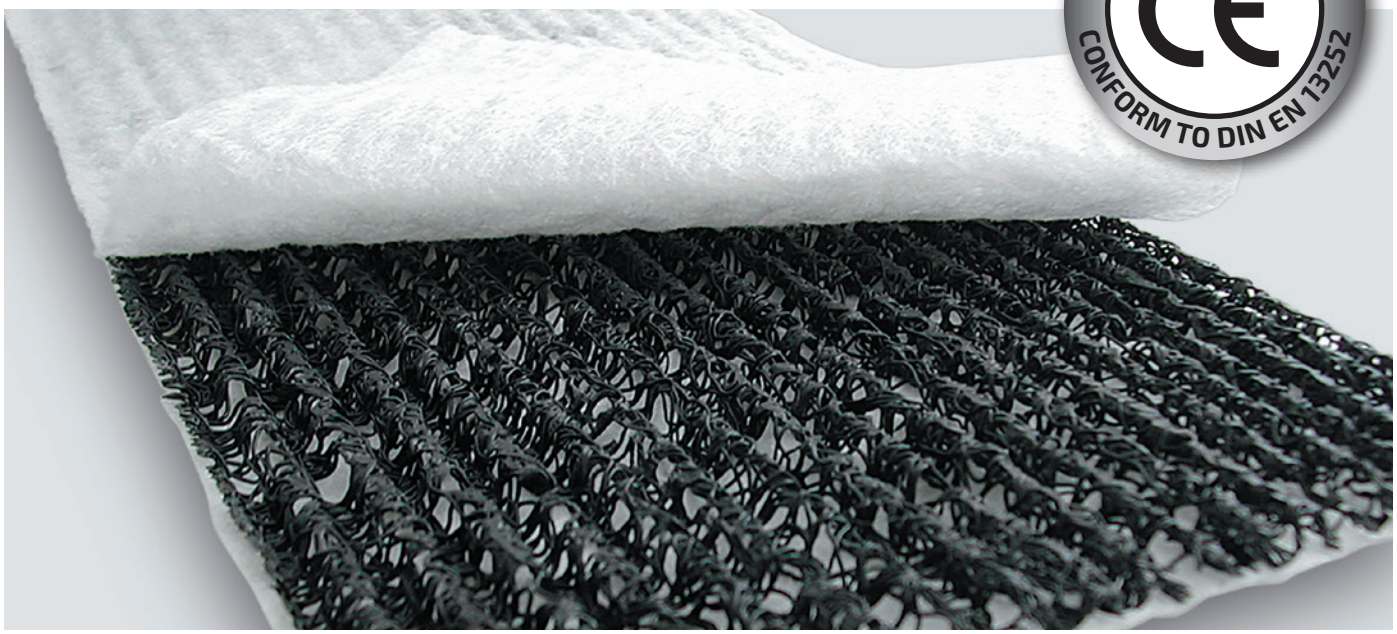
Technical Data Sheet

BREAKTHROUGH FLEXIBILITY

# PM 3D-GEOTEX W8

CONFORM TO DIN EN 13252



PM 3D-GEOTEX W8 is a strong 8 mm high three-dimensional composite with an exceptionally high drainage capacity. The core consists of robust polypropylene monofilaments with a high void ratio and is combined with a nonwoven geotextile filter on both sides.

The monofilaments have a W-shaped structure for high compressive strength and good drainage capacity. As "soft" drainage, the geosynthetic adapts optimally to the substrate. Ideal for foundation and retaining walls, drainage as permanent formwork on diaphragm walls, extensively and intensively green roofs and underground car park ceilings.

## Technical Data

**Properties of the composite material**

| PP monofilaments with two PP geotextiles | | |
|---|---|---|
| Basis weight | approx. 885 g/m² | ± 10 % |
| Thickness at 2 kPa | approx. 8 mm | ± 10 % |
| Tensile strength MD | approx. 18.5 kN/m | - 3 % |
| Water drainage capacity in the plain,<br>soft – soft; i = 1.0<br>hard – soft, i = 1.0<br>hard – soft, i = 1.0<br>hard – soft, i = 0.03<br>hard – soft, i = 0.03<br>hard – soft, i = 0.03 | <br>approx. 2.50 l/s·m² at 20 kPa<br>approx. 2.60 l/s·m² at 20 kPa<br>approx. 1.75 l/s·m² at 100 kPa<br>approx. 1.25 l/s·m² at 200 kPa<br>approx. 0.38 l/s·m² at 20 kPa<br>approx. 0.25 l/s·m² at 100 kPa<br>approx. 0.15 l/s·m² at 200 kPa | ± 30 % |

**Properties of the geotextile**

| Polypropylene | | |
|---|---|---|
| Weight | approx. 120 g/m² | ± 12 % |
| Thickness at 2 kPa | approx. 0.75 mm | ± 11 % |
| Tensile strength MD/CD | approx. 8.1 kN/m | - 1,2 % |
| Static puncture resistance | 1.380 N | - 18 % |
| Dynamic puncture resistance | 31 mm | + 15 % |
| Water permeability normal to the plane | 110 l/s·m² | - 25 % |
| Characteristic opening size $O_{90}$ | 105 µm | ± 45 % |

**Properties of the monofilament core**

| Three-dimensional random filament made from UV-stabilised PP monofilaments | |
|---|---|
| Weight per unit | approx. 645 g/m² |

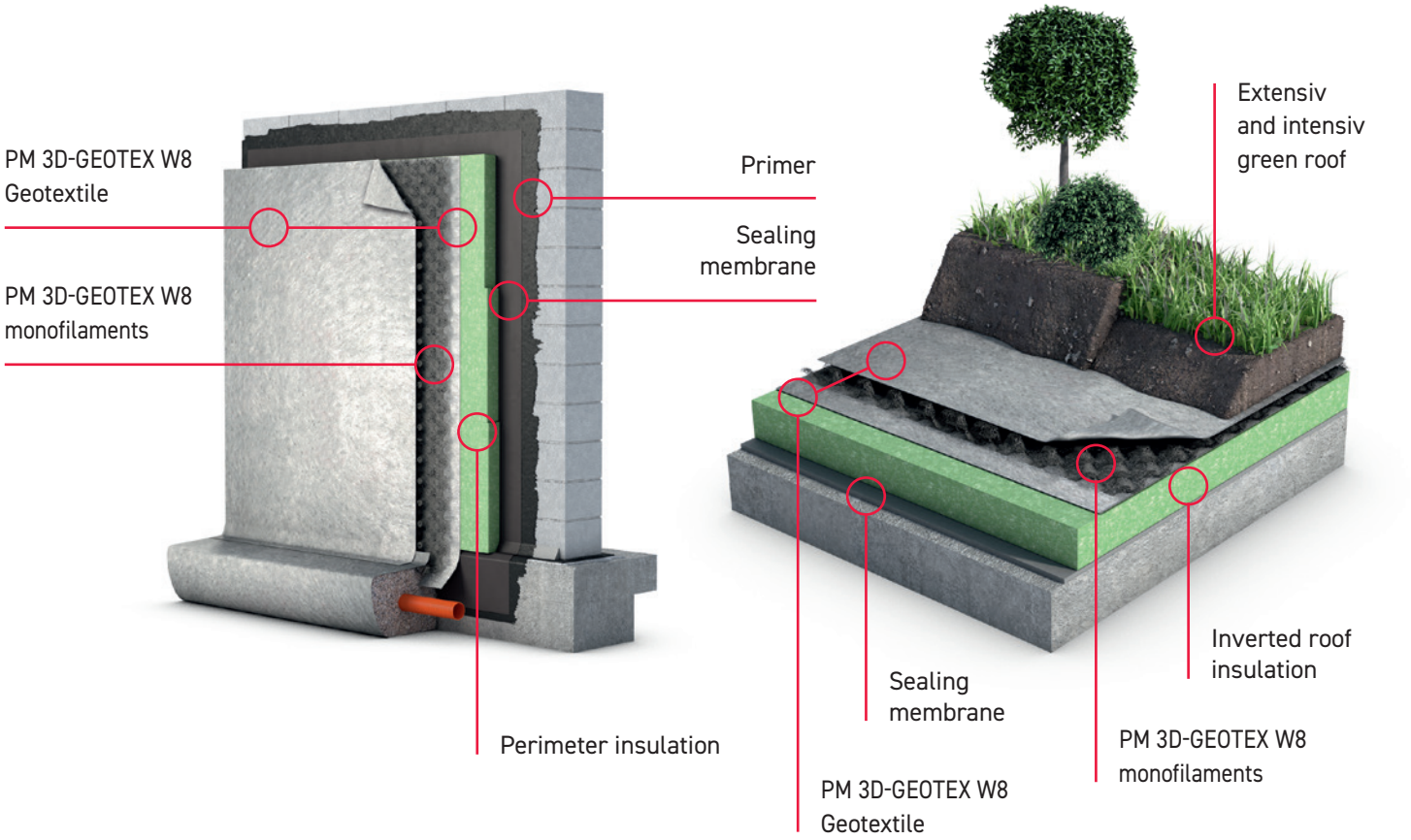
**Dimension of the composite material**

| PP monofilaments with two PP geotextiles | |
|---|---|
| Roll dimension | approx. 2 m x 35 m |

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

PM 3D-GEOTEX W8

# INSTALLATION INSTRUCTIONS




**Vertical installation**
The PM 3D-GEOTEX W8 geocomposites are laid side by side and covered with the geotextile overhang on the side. The upper edge of the sheets should always be around 15 cm above the waterproofing. The membrane is secured temporarily (e.g. with wooden battens), as the drainage membrane is held in place by the earth pressure after backfilling. The final sheet is overlapped with the initial sheet by at least 30 cm at the end. The lower end rests on the ring drainage, which is then surrounded by at least 15 cm of filter-stable gravel. Then fill with soil, taking care to compact the soil appropriately and not to damage the PM 3D-GEOTEX composite when backfilling the soil.

Pay attention to the filling material: pointed or large stones with a diameter of more than 25 mm can damage the drainage material. The product must be covered within 14 days of installation.

**Horizontal installation**
The PM 3D-GEOTEX W8 geocomposites are laid next to each other and covered with the lateral geotextile overlap, i.e. no additional material needs to be included for the overlap. The product is easily cut to size with a blade knife or scissors.

**Accessories:**
PM MOUNTING SCREW for XPS perimeter insulation | PM EDGE FINISHING PROFILE made of plastic or metal in black or brown | PM BUTYL ADHESIVE TAPE | PM POWER FIX cartridge adhesive

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