



Protecto-drain G8 (250)

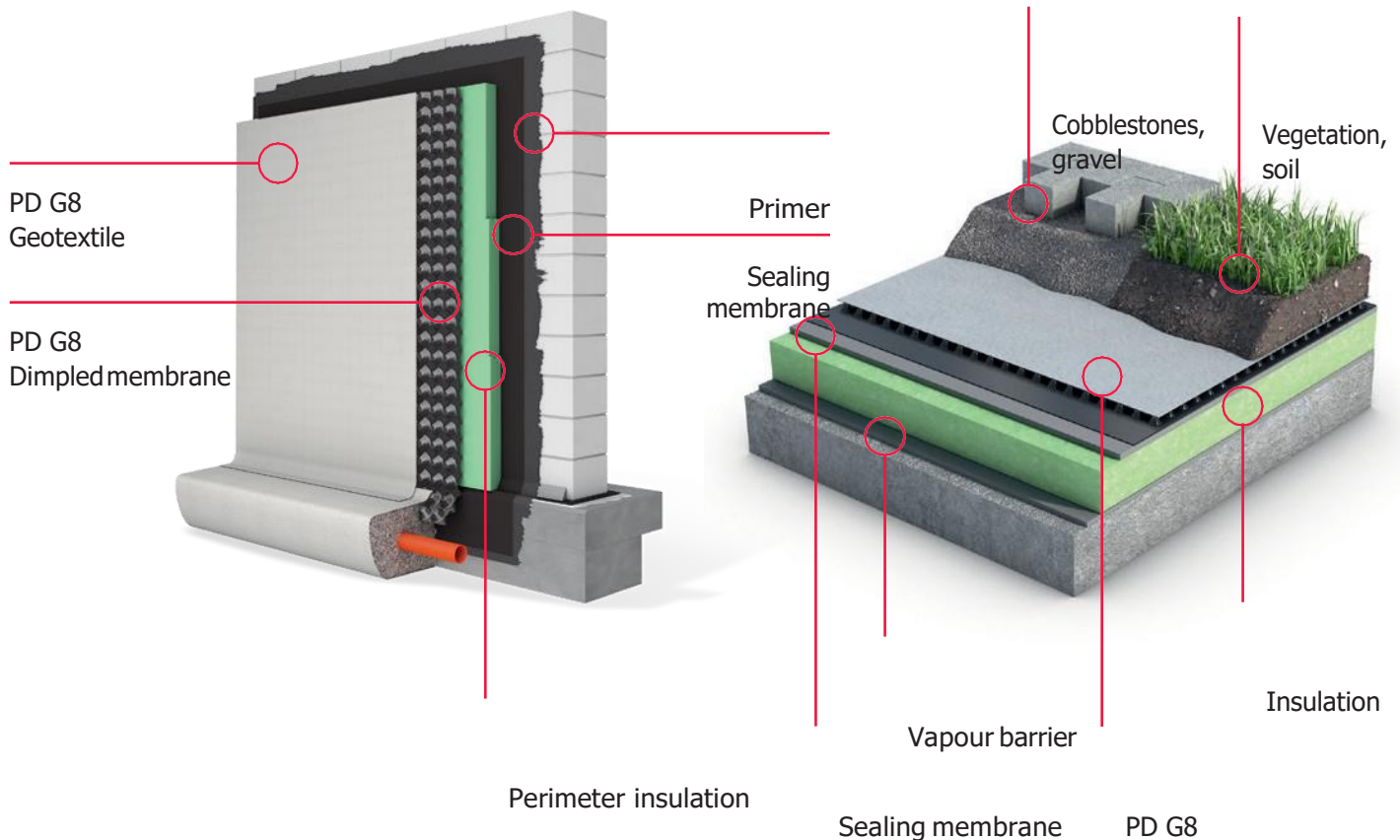


Technical Data

Wallbarn Protecto-Drain G8 250 is a highly effective 8 mm high protection and drainage system designed as a special solution for especially high-performance horizontal and vertical surface drainage on all pressure-resistant surfaces. PD G8 250 consists of a 8 mm high dimpled membrane and a sturdy Tytar geotextile. The smooth back side allows for a uniform and extensive load distribution on the waterproofing. This double-layer system protects the waterproofing below it from mechanical damage and damaging thermal stresses. PD G8 250 has a pressure resistance of 250 kN/m² and is thereby capable of a load of up to 18 tonnes when installed. Its excellent water draining capacity is approx. 30 times higher than required by drainage standard DIN 4095. PD G8 250 protects deep outer basement walls, earth-covered roofs of underground car parks, patios and green flat roofs against waterlogging. 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. The optimal high-performance geotextile boasts very high initial strength with minimum deformation under increasing working load.

| | |
|--|---|
| Dimpled membrane | HDPE |
| Geotextile | polypropylene |
| Dimple height | 8 mm |
| Total weight | approx. 600 g/m ² |
| Number of dimples | 1,710 dimples/m ² |
| Compressive strength | approx. 250 kN/m ² = 25 t/m ² |
| Colour | black |
| Water flow capacity in the plane, soft – soft; i = 1,0 | approx. 2.62 l/s·m at 20 kPa |
| Roll length | 15 / 20 m or on request |
| Roll width | 1.0 / 2.0 m |
| Air volume between the dimples | approx. 5.5 l/m ² |
| Temperature resistance | -30 °C to +80 °C |
| Chem. properties | chemical-resistant |
| Physiolog. properties | safe for drinking water |
| Characteristic opening width | approx. 170 µm |
| Water permeability EN ISO 11058 | approx. 100 · 10 ⁻³ m/s |
| Fire behaviour | class E, |

INSTALLATION INSTRUCTIONS



Vertical installation

With max. waterproofing heights of 1.9 m, the 2 m wide membrane is rolled out on the wall. For other waterproofing heights a 1 m wide roll is also available, particularly useful for large planters. The geotextile always faces outwards towards the ground. Ensure that the sides of the individual membranes overlap while lifting the geotextile accordingly. At corners, fold the membrane along the edge line prior to installation. The upper edges of the membranes must be about 15 cm above the waterproofing 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 all-round by at least 15 cm of filter-stable material. After backfilling, the membrane is cut off at the top edge of the soil.

Horizontal installation

The surface to be drained should have a gradient of at least 2%. Roll out the PD G8 on the waterproofed 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 membrane can be moved directly with a wheelbarrow; with projecting ground filling of at least 20 cm, PD G8 can also be transported using wheel loaders.

Wallbarn Ltd

Unit 16, Capital Business Centre, 22 Carlton Road, South Croydon CR2 0BS

Tel: 020 8916 2222 E: sales@wallbarn.com W: www.wallbarn.com