

Product Data Sheet
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Sika® Drain-850 Geo

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Dimpled drainage and protection sheet with filtration layer

Product Description

Sika® Drain-850 Geo is a heavy duty drainage and protection sheet produced from high density polyethylene (HDPE) with dimples 10 mm high and a filtration layer of geotextile (PP) bonded on the top.

Uses

As a protection and drainage sheet for preformed sheet membrane waterproofing systems, liquid applied membranes and with the Sika® White Box concept for waterproofing retaining walls and heavy duty roofs/podiums.

Characteristics / Advantages

- High drainage capacity
- High mechanical/impact resistance
- Integral filtration layer
- Resistant to all natural aggressive mediums in ground water and soil
- Suitable for contact with soft water (aggressive to concrete)
- Can be installed on damp and wet substrates
- Sika® Drain-850 Geo forms a drainage channel in the space between the structural elements and the backfilling/soil/substrate to allow water to be drained away

Tests

Approval / Standards EN 13252

Product Data

Form

Appearance / Colours Black HDPE sheet with 10mm deep dimples and a black geotextile filtration layer bonded on the top.



Packaging

Roll size: 2.44 x 12.50 m
Weight: 975 g/m²



Construction

Storage Conditions/ Shelf life	The product does not expire during correct storage. Rolls must be stored in their original packaging and in cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice, etc.	
Thickness	10.0 (+/- 1.0) mm	(EN ISO 9863-1)
Unit Weight	850 (+/- 5%) g/m ² (Dimpled Sheet) 125 (+/- 20%) g/m ² (Geotextile)	(EN 9864)

Technical Data

Resistance to Dynamic Perforation	24 (+/- 2.4) mm (geotextile, cone drop test)	(EN 13433)
Compression Resistance	400 (+/- 80) kPa (short term)	
Long Term Protection Efficiency	94% residual thickness after long time compression at 70 kPa	
Tensile Strength	12/12 (- 2.4) kN/m (machine and cross direction)	(EN 10319)
Elongation	60 (+/- 15) % (cross and machine direction)	(EN 10319)
Ambient Maximum Temperature of Liquids	+ 32°C (water)	
Drain Flow Capacity	Horizontal application at 20 kPa (S/R, i= 0.04) 0.60 l/(m*s) - 20% Vertical application at 20 kPa (S/R, i= 1) 3.5 l/(m*s) - 20%	(EN 12958)

Application Information

Ambient Air Temperature - 10°C min. to + 55°C max.

Application Instructions

Substrate Quality	Clean, sound and dry, homogeneous, free from oils and grease, dust and loose or friable particles.	
Application Method / Tools	Installation method: Loose laid and mechanically fastened in accordance with the relevant Sika® application manual and installation instructions.	
Limitations	Sika® Drain-850 Geo is not resistant against exposure to permanent weathering and UV-light. When used in combination with PVC membranes, a separation (geotextile) must be used between the materials. Maximum installation depth: 10m.	

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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