

PRODUCT DATA SHEET

Sika® Drain-850 Geo

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 back-filling/soil/substrate to allow water to be drained away

APPROVALS / STANDARDS

'Geotextiles and geotextile-related products - Characteristics required for use in drainage systems' according to EN 13252, Declaration of Performance Nr. 58467411 certified by notified factory production control certification body 1213 and provided with the CE marking.

PRODUCT INFORMATION

Packaging	Roll size	2.44 x 12.50 m
Appearance / Colour	Black HDPE sheet with 10 mm deep dimples and a black geotextile filtration layer bonded on the top.	
		
Shelf Life	5 years from date of production if stored properly in undamaged, unopened, original packaging	
Storage Conditions	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	Dimpled Sheet	850 (±5 %) g/m ² (EN 9864)
	Geotextile	125 (±20 %) g/m ²

TECHNICAL INFORMATION

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 % (EN 12958)
	Vertical application at 20 kPa (S/R, i= 1)	3.5 l/(m·s) - 20 %

APPLICATION INFORMATION

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

For general use as a protection/drainage layer on a waterproofing membrane, the dimpled surface should face the membrane and the geotextile should face outwards.

LIMITATIONS

- Sika®Drain-850 Geo is not resistant against exposure to permanent weathering and sunlight.
- 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.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

LEGAL NOTES

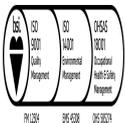
The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. 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.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

SIKA IRELAND LIMITED

Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland



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