

PRODUCT DATA SHEET

SikaRoof® Drainage Sheet 20

Dimpled sheet with holes for drainage of green roofs

PRODUCT DESCRIPTION

SikaRoof® Drainage Sheet 20 is a drainage and retention sheet on base of premium grade high density polyethylene (HDPE) with dimples 20 mm high and holes for drainage.

SikaRoof® Drainage Sheet 20 forms a hollow space between the structural element and the soil, providing both drainage and water retaining properties.

USES

Drainage and retention layer for green roofs, in combination with a suitable geotextile on top as filtration layer.

CHARACTERISTICS / ADVANTAGES

- High drainage capacity
- High water retaining capacity $\sim 5.8 \text{ l/m}^2$
- High mechanical resistance (Compression resistance $150 \pm 20 \text{ kN/m}^2$. Tested to ISO 25619-2)
- Suitable for extensive and intensive green roofs
- 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

APPROVALS / STANDARDS

'Geotextiles and geotextile-related products – Characteristics required for use in drainage systems' according to EN 13252

PRODUCT INFORMATION

Packaging	2.00 m x 20.00 m roll
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Appearance / Colour	Dimpled, black HDPE sheets
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Shelf Life	No expiration date if product is stored under storage conditions stated in this Product Data Sheet
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Storage Conditions	Rolls must be stored in their original package, in horizontal position and under cool and dry conditions. SikaRoof® Drainage Sheet 20 must be protected from direct sunlight, rain, snow and ice, etc.		
Length	20.00 m		
Width	2.00 m		
Thickness	Foil thickness	1 ± 0.2 mm	
Weight	1 000 ± 50 g/m ²	(EN 9864)	
Height	20 ± 2 mm	(EN 9863-1)	

TECHNICAL INFORMATION

Tensile Strength	7–9 kN/m				(EN ISO 10319)
Elongation at Break	20 ± 5 %				(EN ISO 10319)
Water flow capacity	Contact	Load	Hydraulic gradient	Plane flow capacity	(EN ISO 12958)
	S/R	20 kPa	i = 0.04	2.50 l/(m.s) ± 20 %	
	S/R	20 kPa	i = 0.10	4.30 l/(m.s) ± 20 %	
	S/R	20 kPa	i = 1.0	10.0 l/(m.s) ± 20 %	
S/R = Soft/Rigid Hydraulic gradient, i = h _L /L					

APPLICATION INFORMATION

Ambient Air Temperature	+32 °C max.
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VALUE BASE

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

LIMITATIONS

SikaRoof® Drainage Sheet 20 is not resistant to permanent weathering and UV-light, when exposed. A separation layer like S-Felt or Sika® Geotextile is required in combination with Sarnafil® PVC membrane. (For more information, please contact Sika Technical Department).

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).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Clean, sound and well compacted. Remove high spots that may damage/puncture the drainage sheet.

APPLICATION

Loosely laid and/or mechanically fastened in accordance with relevant Sika® application manual and installation instructions. To be covered with a suitable geotextile layer before laying with soil.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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