

PRODUCT DATA SHEET

SikaRoof® VersiCell® Flex

SUB-SURFACE DRAINAGE MODULES FOR DRAINAGE OF LANDSCAPE FEATURES

DESCRIPTION

SikaRoof® VersiCell® Flex is a lightweight, high-strength drainage module manufactured from recycled polypropylene (PP) with cells 30 mm high, providing large internal void volumes for increased drainage discharge capacity. The module is flexible to accommodate curvatures of structural designs. SikaRoof® VersiCell® Flex forms a hollow space between the structural element and the planting media, providing excellent drainage to prevent flooding of the landscape features.

USES

Drainage layer for intensive green roofs, podium landscapes and planter boxes in combination with a suitable geotextile as a filtration layer to prevent planting media from clogging the drainage layer.

CHARACTERISTICS / ADVANTAGES

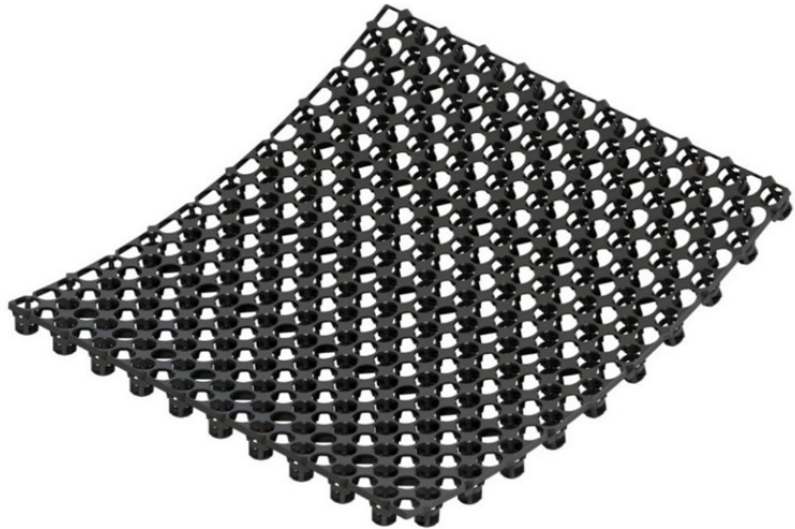
- Flexible to conform with structural design
- High compressive strength
- Smooth base, safe for direct laying onto waterproofing
- Interlocking modular design ensuring continuous drainage
- High discharge capacity
- Small surface perforations to prevent sagging of geotextile
- Resistant to biological attack by moulds and algae
- Chemically resistant to acids, alkalis, oils and soil chemicals
- Operates within a wide service temperature range

APPROVALS / STANDARDS

- Singapore Green Building Product (Leader) Cert. No. SGBP 3258
- Discharge Rate Testing in accordance to EWTCOI methodologies

PRODUCT INFORMATION

Packaging	16 pieces / bundle
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Shelf Life	No expiration date if the product is stored in accordance to the storage conditions as stated in this Product Data Sheet
Storage Conditions	Bundles must be stored in their original packing, laid in a horizontal position, and under cool and dry conditions. The product must be protected from direct sunlight, rain, snow and ice, and any other elements.
Dimensions	500 x 500 x 30 mm
Weight	2.0 kg/m ²

TECHNICAL INFORMATION

Compressive Strength	600 kN/m ²	(ASTM D695-15)
Service Temperature	- 30 °C to 80 °C	
Volume	Surface Void Area	Internal Void Volume
	62 %	95 %
Water flow capacity	Discharge Rate @ 1% Gradient 16.5 L/m·s	
Hole dimension	Perforation Size ≤ 22.5 mm Ø	

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATIONS

- SikaRoof® VersiCell® Flex is not resistant to permanent weathering and UV exposure.
- When used in combination with Sarnafil® or SikaPlan® membranes, a separation/protection layer is recommended.

For more information, please contact Sika Sales Personnel.

ECOLOGY, HEALTH AND SAFETY

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 and sound surface shall have at least a wood float finish. All holes, joints, and cracks and honeycombs in concrete or masonry surfaces shall be filled with an approved grout and allowed to cure. High spots in concrete or masonry surfaces shall be cut off or ground down to prevent damage/puncture to the drainage module.

APPLICATION

SikaRoof® VersiCell® Flex shall be loosely laid and interlocked with adjacent modules connected by proprietary in-built clips to form a continuous drainage layer without any mechanical fixing either on top of the waterproofing membrane or on top of the concrete surface. The installed drainage modules would then be covered with an approved or Sika® geotextile filter fabric before pouring the planting media over the modules.

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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