

PRODUCT DATA SHEET

SikaRoof® VersiCell®

SUB-SURFACE DRAINAGE MODULES FOR DRAINAGE OF LANDSCAPE FEATURES

DESCRIPTION

SikaRoof® VersiCell® is a lightweight, high-strength drainage module manufactured from recycled polypropylene (PP) with cells 20 mm or 30 mm high, providing large internal void volumes for increased drainage discharge capacity.

SikaRoof® VersiCell® 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, planter boxes and retaining wall backfill drainage systems in combination with a suitable geotextile as a filtration layer to prevent planting media from clogging the drainage layer.

CHARACTERISTICS / ADVANTAGES

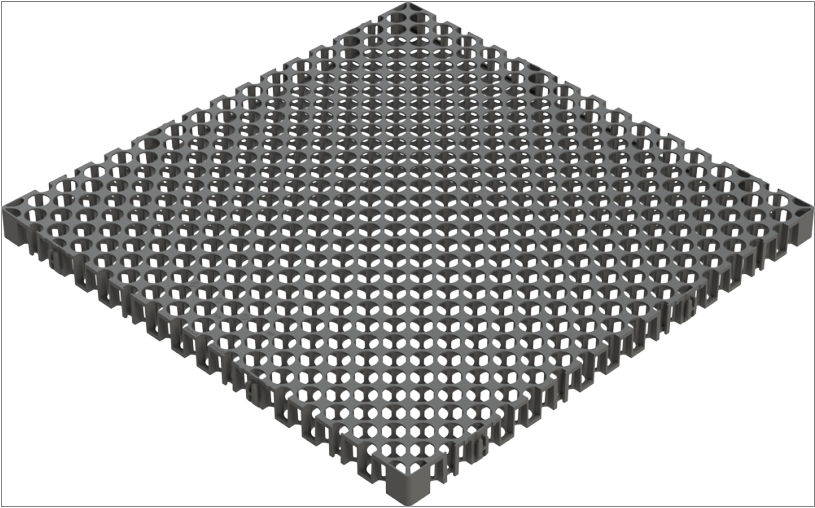
- High compressive strength
- Smooth base, safe for direct laying onto waterproofing
- Interlocking modular design ensuring continuous drainage
- High discharge capacity
- Small surface perforations to prevent sagging of geotextile
- Resistant to biological attack by moulds and algae
- Chemically resistant 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	SikaRoof® VersiCell® 3050	0.5 m x 0.5 m x 0.24 m (8 pcs / bundle)
	SikaRoof® VersiCell® 3025	0.5 m x 0.25 m x 0.48 m (16 pcs / bundle)
	SikaRoof® VersiCell® 2050	0.5 m x 0.25 m x 0.16 m (8 pcs / bundle)



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	SikaRoof® VersiCell® 3050	500 mm x 500 mm x 30 mm / pcs
	SikaRoof® VersiCell® 3025	500 mm x 250 mm x 30 mm / pcs
	SikaRoof® VersiCell® 2050	500 mm x 500 mm x 20 mm / pcs
Weight	SikaRoof® VersiCell® 3050	2.5 kg/m²
	SikaRoof® VersiCell® 3025	2.5 kg/m²
	SikaRoof® VersiCell® 2050	2.0 kg/m²

TECHNICAL INFORMATION

Compressive Strength	800 kN/m²	(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	
	SikaRoof® VersiCell® 3050	16.5 L/m·s
	SikaRoof® VersiCell® 3025	16.5 L/m·s
	SikaRoof® VersiCell® 2050	13.0 L/m·s
Hole dimension	Perforation Size ≤ 20 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® is not resistant to permanent weathering or prolonged UV exposure.
- When used in combination with Sarnafil® or Sika-plan® membranes, a separation layer such as S-Felt or Sika® Geotextile must be installed.
- For more information, please contact the 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 PREPARATION

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® 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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Product Data Sheet

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