BUILDING TRUST CONSTRUIRE LA CONFIANCE



PRODUCT DATA SHEET

Edition 07.2018/v1 CSC Master FormatTM 07 10 00 DAMPPROOFING AND WATERPROOFING

Sika® Drainage Mat 420/720/1000/GRS

PREFABRICATED DRAINAGE COMPOSITES

Description

Sika[®] Drainage Mat composites are available in both high flow dimpled core and high crush resistant geonet constructions. They perform a multi-faceted role by providing protection for the Sikalastic[®] RoofPro and Sikalastic[®]-320 membranes as well as a means of collecting and conveying excess water in plaza decks, split slabs, planters, roof gardens and other roofing and waterproofing applications.

Sika[®] Drainage Mat 420 & 720

Impermeable high flow dimpled polypropylene drainage core heat-bonded to a layer of nonwoven polypropylene (420) or woven polypropylene (720) filtre fabric on the top side and a polyethylene membrane protection film on the bottom side. The filtre fabric retains soil or sand particles as well as freshly placed concrete or grout, allowing filtered water to pass into the drainage core. Use the nonwoven filtre fabric with soil, sand or stone ballast; use the woven filtre fabric with freshly placed concrete or grout.

Sika[®] Drainage Mat 1000

High density polyethylene geonet drainage core with its ridges heat-fused to a layer of nonwoven polypropylene filtre fabric on the top side and a heavy duty nonwoven polypropylene membrane protection fabric on the bottom side. The filtre fabric retains soil or sand particles as well as freshly placed concrete or grout, allowing filtered water to pass through to the core. The bottom protection fabric provides cushioning for the waterproofing membrane. The geonet core is highly crush resistant yet flexible enough to conform to irregular surfaces. Sika® Drainage Mat 1000 is suitable for heavy loads and split slabs exposed to vehicular traffic.

Sika[®] Drainage Mat GRS

Sika[®] Drainage Mat GRS for vegetated roof assemblies consists of an impermeable dimpled polystyrene drainage core. The core is perforated, then bonded to a root resistant nonwoven polypropylene filtre fabric on the top side and nonwoven polypropylene membrane protection fabric on the bottom side. The filtre fabric helps prevent roots from affecting the efficiency of the drainage/aeration layer as well as retaining soil or other fine particles from being washed away and allows water to pass into the drainage core. The bottom protection fabric provides cushioning for the waterproofing membrane. The core is installed dimpled side down to allow water retention within the cups. Excess water is collected and conveyed to a proper collection system, helping to control drainage flow.

Where to Use	 Plaza decks
	Split slabs
	 Planters
	 Ballasted roofs
	 Green roofs
	Foundation walls
Advantages	 Variable flow and compressive strength configurations
	 High crush resistant configurations for vehicular traffic
	 Pre-assembled filtration and membrane protection layers
	 Conformable to irregular surfaces
	 Mildew and rot resistant

	Technical Data					
	Packaging	1.2 x 15.24 m (4 x 50 ft) rolls (Individual rolls packaged in plastic bags) Note: Sika Drainage Mat 420 is also available in 1.98 x 15.24 m (6.5 x 50 ft) rolls (Individual rolls packaged in plastic bags) Indefinite. Store properly in original, unopened, undamaged sealed packaging in dry conditions, flat and wrinkle-free at temperatures between 4 and 35 °C (40 and 95 °F)				
	Shelf Life					
	Typical Technical Properties Core		Sika® Drainage Mat 720		Sika [®] Drainage Mat GRS	
	Compressive Strength (ASTM D1621) Thickness (ASTM D1777) Flow (ASTM D4716, Hydraulic Gradient =1	718 KN (15,000 psf) 10 mm (0.40 in) 261 L/min/m (21 US gal/min/ft)	1005 KN (21,000 psf) 10 mm (0.40 in) 286 L/min/m (23 US gal/min/ft)	1915 KN (40,000 psf) 6 mm (0.25 in) 106 L/min/m (9 US gal/min/ft)	455 KN (9,500 psf) 25.4 mm (1 in) 372 L/min/m (30 US gal/min/ft)	
	Filtre Fabric Water Flow Rate (ASTM D4491) Puncture (ASTM 6241)	5,704 L/min/m² (140 US gal/min/ft²) 1.11 KN (250 lb)	2,460 L/min/m² (60 US gal/min/ft²) 3.78 KN (850 lb)	4,481 L/min/m ² (110 US gal/min/ft ²) 1.83 KN (410 lb)	10,186 L/min/m ² (250 US gal/min/ft ²) 1.06 KN (238 lb)	
	Apparent Opening Size Grab Tensile (ASTM D4632)	0.21 mm (70 US Sieve) 0.45 KN (100 lb)	0.43 mm (40 US Sieve) 1.64 KN (310 lb)	0.21 mm (70 US Sieve) 0.71 KN (160 lb)	0.21 mm (70 US Sieve) 0.34 KN (75 lb)	
	Water Retention Weight VOC Content Chemical Resistance	N-A 18.60 kg (41 lb) N/A Consult Sika Canada	N-A 22.68 kg (50 lb)	N-A 24.95 kg (55 lb)	4.07 L/m ² (1.1 gal/10 ft ²) 39.91 kg (88 lb)	
	Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment preparation, application, curing and test methods.					
HOW TO USE						
Surface Preparation	Surface must free of loose debris	and objects that may	damage the Sika® Dra	inage Mat.		
	and membrane protection layer down and in the direction of maximum slope. Attach mat to membrane surface wi approved Sikaflex [®] sealant or SikaBond [®] adhesive as necessary to keep in position. At edge overlaps, place adjace panels so the cores abut and secure the fabric at 900 - 1500 mm (3 - 5 ft) intervals with Sikaflex [®] or SikaBond [®] . At m ends and abutments without overlaps, peel back fabric and remove 100 mm (4 in) of core then secure overlap. All co joints and terminations must be covered by fabric overlay.					
Limitations	 Do not expose Sika[®] Drainage Mats to direct sunlight for extended periods of time. Do not expose to aromatic hydrocarbons (i.e., jet fuel, diesel fuel, kerosene, etc.) 					
Health and Safety Information	Sika [®] Drainage Mat are manufactured articles/finished goods that do not require Safety Data Sheets to be markete transported or applied at the jobsite. Based on our current knowledge, these products are not classified as dangerou and do not contain any hazardous materials. Always wear personal protective equipment (including safety goggles ar gloves) to manipulate and install Sika [®] products. KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY					
	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, within their shelflife. In practice, the differences in materials, substrates and actua 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the product from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sala 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 or may be downloaded from our website at: www.sika.ca SIKA CANADA INC.					
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