Leakdrain S3U STD

*GEOSYNTHETIC SOLUTIONS ***

Leakdrain S3U STD consists of a single cuspated HDPE (High Density Polyethylene) high performance core. The core has the necessary compressive strength and in-plane flow capacity required to conduct leachate and other particle leaden liquids without clogging. The core design has flat surfaces to provide protection and minimal stresses on the surrounding surfaces. Its main application is as a leak detection layer between two geomembrane at the base of containment systems.

SPECIFICATIONS

Physical Properties:					
Colour		Black			
Type		Single Cuspated (Dimpled)			
Material		HDPE (High Density Polyethylene)			
Mass per unit area	(g/m^2)	420	approx.		EN ISO 9864
Equivalent sheet thickness	(mm)	0.4	±20%		
Dimple height	(mm)	3.6	±20%		EN ISO 9863-1
Dimple centres	(mm)	6.65			nominal
Height of Flow Path	(mm)	3.2	±20%		
Surface contact - top	(%)	27	±10%		nominal
Surface contact - bottom	(%)	55			nominal
Performance:					
Carbon Black Content	(%)	0.8 – 2.5			ASTM D1603:94
Tensile Strength (MD/CD)	(kN/m)	5/4	-10%		EN ISO 10319
Elongation (MD/CD)	(%)	40/30	±10%		EN ISO 10319
CBR puncture resistance	(N)	600	-20%		EN ISO 12236
Compressive strength	(kPa)	250			ASTM D1621
In-plane water flow		***HG = 1.0***		***HG = 0.1***	***Hydraulic Gradient***
At 20 kPa pressure	(l/m.sec)	1.20	-0.2	0.30 -0.1	EN ISO 12958
At 100 kPa pressure	(l/m.sec)	1.15	-0.2	0.28 -0.1	EN ISO 12958
At 200 kPa pressure	(l/m.sec)	1.10	-0.2	0.25 -0.08	EN ISO 12958
At 500 kPa pressure	(l/m.sec)	0.95	-0.2	0.20 -0.05	EN ISO 12958
With hard platen boundary conditions to simulate installation on rigid surfaces					
Hydraulic Transmissivity	(m^2/sec)	5.0×10^{-3} at hydraulic gradient of 0.01 and 20 kPa			
	(m^2/sec)	2.0×10^{-3} at hydraulic gradient of 0.1 and 500kPa			
Life expectancy	(yrs)	120 (manufacturers declaration)			
Chemical resistance		Excellent resistance to all common chemicals			EN 14030
Resistance to microbes		No significant effect			EN 12225
Slope stability		Data available on request			
Compatibility with geomembranes		Fully compatible. All components compatible with potable water			
Protection efficiency		Data available on request			EN 13719
Health, safety, environment		INERT. No known health hazard. No precautions necessary.			

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Fibertex SOUTH AFRICA

Roll Dimensions:		
Roll Width & Length	(mm)	2.2 x 100
Roll weight and diameter	(kg, m)	100, 0.79
Overlap & Wastage allowance	(%,%)	2%, 1-5% depending on the shape of the area to be covered

Notes:

1. The values given are indicative and correspond to nominal results obtained in the manufacturer's laboratories and testing institutes.
2. Please note soft platen performance eat pressures in excess of 200kPa is outside EN ISO 12958.
3. The product will continue to perform well under short term loading in excess of 500 kPa. Please request details.
4. Unless otherwise stated allowable tolerances are ±10% of the typical value. The tolerance on roll length is 1.5% and on roll width is 1.0%.
5. Final determination of the suitability of any information is the sole responsibility of the user.
6. Refer to separate sheets for fixing instructions and packing dimensions.