

Cavidrain STD S11U

GEOSYNTHETIC SOLUTIONS **



Fibertex
SOUTH AFRICA

X-Drain Standard S11U consists of a single cusped HDPE (High Density Polyethylene) core. The function of the product is to provide an external drainage layer between underground construction and the ground itself. Alternatively, it may be used as robust drainage layer to collect seepage between a porous or leaking wall, tunnel lining or floor slab and a new render, floor screed or slab. The core is cusped to form a network of drainage channels which allow seepage water to flow on the rear side safely away to outlets. X-Drain S11U can be prefabricated to wider widths.

SPECIFICATIONS

Physical Properties:				
Colour		Black		
Type		Single Cusped (Dimpled)		
Material		HDPE (High Density Polyethylene)		
Carbon black content	(%)	0.8 – 2.5		ASTM D1603
Weight per unit area	(g/m ²)	800		EN ISO 9864
Equivalent sheet thickness	(mm)	0.85	±10%	(Nominal)
Dimple centres	(mm)	17.0	approx.	(Nominal)
Height of dimples	(%)	10.66		EN ISO 9863-1
Surface contact - top	(%)	10		(Nominal)
Surface contact - bottom	(%)	77		(Nominal)
Performance:				
Usable tensile Strength (md/cd)	(kN/m)	8.0 / 5.0		EN ISO 10319
Elongation (md/cd)	(%)	45/30		EN ISO 10319
CBR puncture resistance	(N)	800		EN ISO 12236
Compressive strength	(kPa)	250 (without Screed)		ASTM D1603
<u>In-plane water flow</u>		<u>HG = 1.0</u>	<u>HG = 0.1</u>	<u>Hydraulic Gradient</u>
At 20 kPa pressure	(l/m.sec)	5.0 ±0.15%	1.60 ±0.15%	EN ISO 12958
At 100 kPa pressure	(l/m.sec)	4.8 ±0.15%	1.50 ±0.15%	EN ISO 12958
At 200 kPa pressure	(l/m.sec)	4.5 ±0.15%	1.35 ±0.15%	EN ISO 12958
With hard platen boundary conditions to simulate installation on rigid surfaces				
Design Life		120 years (manufacturers declaration)		
Impact resistance		Excellent (even at low temperature)		
Chemical resistance		Excellent resistance to all common chemicals		
Bacteria / fungi		Does not support growth		
Compatibility with waterproofing		Fully compatible. All components compatible with potable water		
Health, safety, environment		INERT. No known health hazard. No precautions necessary.		
Roll Dimensions:				
Roll Width & Length	(mm)	2.2m x 100m		
Roll weight and diameter	(kg, m)	176kg, 0.83m with 100mm ID tube		
Overlap & Wastage allowance	(%,%)	2%, 1-5% depending on the shape of the area to be covered		

Notes:

- The values given are indicative and correspond to nominal results obtained in the manufacturer's laboratories and testing institutes.
- 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%.
- Final determination of the suitability of any information is the sole responsibility of the user.

The information contained in this publication is provided in good faith and to the best of our knowledge is true and accurate.

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