

# Cavidrain STD S11U

## PRODUCT DATA SHEET



**X-Drain Standard S11U** consists of a single cuspated 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 cuspated 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.

### PHYSICAL PROPERTIES

Colour	Black			
Type	Single Cuspated (Dimpled)			
Material	HDPE (High Density Polyethylene)			
Carbon black content	(%)	0.8 – 2.5		ASTM D1603
Weight per unit area	(g/m <sup>2</sup> )	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

In-plane water flow		HG = 1.0	HG = 0.1	Hydraulic Gradient
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.

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