

## EvaDrain D 6mm

### G E O C O M P O S I T E D R A I N A G E L A Y E R

**EvaDrain D 6mm** consists of a geotextile filter, thermally bonded on one side of a cuspated HDPE (High Density Polyethylene) core. Overall thickness is 6 mm. It is used as drainage and protection layer in intensive roof gardens and below paving.

#### GEOTEXTILE

Type		Non woven continuous filament needle punched and heat treated	
Material		Polypropylene	
Mass/unit area	(g/m <sup>2</sup> )	140	BSEN 965:1995
Thickness at 2kPa	(mm)	1.2	BSEN 964-1:1995
U.V. resistance		Excellent	
Tensile strength long/cross	(kN/m)	7/9	BSEN ISO 10319:1996
Elongation at break long/cross (%)		80/35	BSEN ISO 10319:1996
Pore size $O_{90}$	(micron)	100-150	BS 6906 (2)
Water flow at 100mm	(l/m <sup>2</sup> /s)150		BS 6906 (3)
Breakthrough head	(mm)	0	BS 6906 (3)
Puncture resistance	(N)	1400	BSEN ISO 12236:1996
Tear resistance	(N)	200	ASTM D4533-85
Chemical resistance		Highly resistant to all common chemicals	

#### CORE

Carbon black content(%)	0.8-2.5	ASTM D1603:94	
Type		Single Cuspated (Dimpled)	
Material		prime HDPE (High Density Polyethylene)	
Mass/unit area	(g/m <sup>2</sup> )	510	BSEN 965:1995
U.V. resistance		Excellent	
Impact resistance		Excellent (even at low temperatures)	
Chemical resistance		Highly resistant to all common chemicals	

#### COMPOSITE

In plane Water Flow at 100kPa	(l/m/sec)	<u>HG1.0</u>	<u>HG0.1</u>	BS 6906(7)(MOD)
at 240kPa		0.95	0.30	
at 500kPa		0.80	0.24	
with soft foam		0.65	0.19	
Flow reduction after 1,000,000 hours	(%)	<6		DTp CI514
Thickness at 2kPa	(mm)	5.5		BS EN 964-1:1995
Tensile strength long/cross	(kN/m)	15/15		BS EN ISO 10319:1996
Elongation long/cross	(%)	80/40		BS EN ISO 10319:1996
CBR puncture resistance	(N)	2,500		BS EN ISO 12236:1996
Life expectancy	(yrs)	120		
Working temperature	(°C)	-20 to 80		
Chemical resistance		Excellent resistance to all common chemicals		
Bacteria/fungi		Does not support growth		
Compatibility with waterproofing membranes		Fully compatible. All components compatible with potable water		
Health, safety, environment		INERT. No known health hazard. No precautions necessary		

#### NOTE

- (1) The geotextile is bonded to the core to prevent intrusion into and blockage of the drainage passage under the action of pressure of backfill material.
- (2) The core has a flat side in contact with the waterproofing to reduce contact stresses to a minimum.
- (3) The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. The right is reserved to make changes without notice at any time.
- (4) Allowable tolerances are +/- 10% of the typical value.
- (5) Refer to separate sheets for fixing instructions and packing dimensions.