

# Hydrodrain FC6



DWR-FC6 is a geocomposite drainage layer comprising of a high performance single cusped HDPE (High Density Polyethylene) core with a geotextile filter thermally bonded to one side. The textile filter has a flap that extends beyond the core on one edge. The product is practically impermeable one side. It is used as an engineered drainage layer in structural applications, its major area of use being on roof decks and subsurface works.

## Geotextiles

Type	Upper	Non-woven needle punched & heat treated long staple fibre.	
Material		Polypropylene	
Thickness at 2kPa	(mm)	1.2	EN ISO9863-1
Tensile strength (MD/CD)	(kN/m)	9.5 / 9.5	EN ISO 10319
Pore size $O_{90}$	( $\mu$ m)	120	EN ISO 12956
CBR puncture resistance	(N)	1 600	EN ISO 12236
Dynamic perforation cone drop	(mm)	32	EN ISO 13433

## Drainage layer

Thickness at 2kPa	(mm)	6.1	EN ISO9863-1	
Mass/unit area	( $g/m^2$ )	0 670	EN ISO 9864	
Tensile strength (MD/CMD)	(kN/m)	13 / 13	EN ISO 10319	
Elongation (MD/CMD)	(%)	45 / 45	EN ISO 10319	
CBR puncture resistance	(N)	2 250	EN ISO 12236	
Water flow at 50mm head	( $l/m^2.s$ )	103	EN ISO 11058	
At 2kPa permeability	(m/s)	$2.5 \times 10^{-3}$	EN ISO 11058	
In plane water flow MD and CMD		HG=1.0	HG=0.1	
At 20kPa confining pressure	( $l/m.s$ )	1.60	0.48	EN ISO 12958
Life expectancy	(yrs)	120 years (manufacturers declaration)		
Resistance to chemicals		Excellent	EN 14030	
Resistance to weathering		To be covered in 14 days	EN 12224	

## Product Dimensions

Standard roll dimension 1.1m x 50 m or 2.2 m x 25 m

## Notes

- (1) The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. The above figures have been obtained from statistical interpretation of test results. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
- (2) The tolerance on roll length is 1.5% and on roll width is 1.0%
- (3) Final determination of the suitability of any information is the sole responsibility of the user. Blackdown will be pleased to discuss the use of this or any other product but responsibility for selection of material and its application in any specific project remains with the user.

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