

DATA SHEET: BLACKDOWN 12MM DRAINAGE LAYER
PRODUCT CODES: FC12

FC12 is a geo-composite drainage layer comprising 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 areas of use being behind retaining structures, on roof decks and in subsurface works.

FC12 makes extensive use of recycled polymers in its construction.

Geotextiles

Type		Non-woven needle punched & heat treated long staple fibre.		
Material		Polypropylene		
Thickness	(mm)	1.2		EN ISO 9863-1
Pore size O_{90}	(μ 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

Hydraulic gradient		<u>1.0</u>	<u>0.1</u>	
In-plane water flow MD & CMD at 20kPa	(l/m.sec)	4.25 -35%	1.25 -35%	EN ISO 12958
Thickness at 2kPa	(mm)	12.0		EN ISO9863-1
Tensile strength (MD/CD)	(kN/m)	18 / 15		EN ISO 10319
Elongation (MD/CD)	(%)	45 / 45		EN ISO 10319
Water reservoir volume ⁽⁷⁾	(l/m ²)	n/a		
Mass/unit area(dry)	(g/m ²)	1,070		EN ISO 9864
Compressive Strength (unfilled)	(kPa)	250		
Life expectancy	(yrs)	120 years in pH 4 to 9 at 25°C		
Chemical resistance		Excellent resistance to common chemicals		EN 14030
Compatibility		Fully compatible. All components compatible with potable water.		
Health, safety, environment		INERT. No known health hazard. No precautions necessary.		

Product Dimensions

Standard roll dimension 1.1m x 50 m

Notes

- (1) The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. 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) Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.
- (4) 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 a material and its application in any specific project remains with the user.
- (5) Please refer to separate sheets for fixing instructions. A COSHH certificate is available on request.

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Blackdown Greenroofs

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