

DATA SHEET: BLACKDOWN 60MM DRAINAGE LAYER & FILTER FLEECE
PRODUCT CODES: 60+RS NW8

BHC 60+FS consists of a perforated, single cusped HDPE (High Density Polyethylene) core with water retention reservoirs. After installation on site BHC 60+FS is filled with light weight drainage aggregate and over-laid with a non-woven geotextile. It is primarily intended for use under thin soil layers where the plant roots can reach down to the water in the core reservoirs. Excess rainwater escapes through the perforations in the sheets of BHC 60+FS to flow into and along the underside channels of the BHC 60+FS and away to the outlets. Its major application is in intensive roof garden drainage where BHC 60+FS provides a lightweight drainage layer and water reservoir to sustain plant growth and contribute to SUDS attenuation of rainfall run-off.

BHC 60+FS makes extensive use of recycled polymers in its construction.

BHC 60DWR is supplied in rolls of a dimension 0.92 x 15.2m.

Geotextile

A range of geotextiles may be used in conjunction with the core. The standard geotextile, which is supplied separately in rolls 4.5 m by 100m, has the following properties. This textile is water and root permeable. (Root impermeable, water permeable textile is also available)

Type	Terrex NW8 Non-woven long staple fibre needle punched & heat treated		
Material	Polypropylene		
Mass / unit area	(g/ m ²)	100	EN ISO 9864
Water flow at 50mm head	(l/m ² /s)	110	EN ISO 11058
Breakthrough head	(mm)	0	BS 6906 (3)
Pore size O90	(µm)	130	EN ISO 12956
Static puncture resist CBR	(N)	1400	EN ISO 12236
Chemical resistance	Highly resistant to all common chemicals		

BHC 60+FS DWR

In-plane water flow at 20kPa pressure and HG = 1.0	(l/m.sec)	38	EN ISO 12958
Thickness at 2kPa	(mm)	60	EN ISO 9863-1
Tensile strength	(kN/m)	20	EN ISO 10319
Elongation	(%)	50	EN ISO 10319
Water reservoir volume (5)	(l/m ²)	23	
Water reservoir volume (5)	(l/m ²)	11	(when filled with lightweight drainage aggregate)
Mass/unit area (dry)	(g/m ²)	2,200	EN ISO 9864
Mass/unit area (saturated)	(g/m ²)	26,000	EN ISO 9864
Life expectancy	(yrs)	120 years in pH 4 to 9 at 25°C	
Chemical resistance	Excellent resistance to common chemicals		EN 14030
Resistance to microbes	No significant effect		EN 12225
Compatibility with membranes	Fully compatible. All components compatible with potable waterproofing		
Health, safety, environment	INERT. No known health hazard. No precautions necessary		

Note

- (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) Unless otherwise stated allowable tolerances are $\pm 10\%$ of the typical value. The tolerance on roll length is 1.5% and on roll width is 1%.
- (3) Non-load bearing walls can be built off BHC 60+FS
- (4) The above figures have been obtained from statistical interpretation of test results.
- (5) Water retention within the soil 20 – 40 litres (dependent on thickness of soil)
- (6) Final determination of the suitability of any information is the sole responsibility of the user. BHC 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.
- (7) Refer to separate sheets for fixing instructions and packing dimensions.

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