

DATA SHEET: BLACKDOWN 60MM DRAINAGE LAYER
PRODUCT CODES: 60+RS

60+RS consists of a perforated, single cusped HDPE (High Density Polyethylene) core with water retention reservoirs. After installation on site 60+RS is filled with light weight drainage aggregate and over-laid with a non-woven geotextile.

Rainwater escapes through the perforations in the sheets of 60+RS to flow into and along the underside channels of the 60+RS and away to the outlets. Its major application is in intensive roof garden drainage where 60+RS provides a lightweight drainage layer and water reservoir to sustain plant growth. 60+RS makes extensive use of recycled polymers in its construction.

60+RS 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	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		

In-plane water flow MD and CMD	10%	3%	1%	Hydraulic gradient
at 20kPa confining pressure (l/m·s)	12.5	5.5	2.5	EN ISO 12958

Thickness at 2kPa	(mm)	60	EN ISO 9863-1
Tensile strength	(kN/m)	20	EN ISO 10319
Water reservoir volume	(l/m ²)	23	(empty)
Water reservoir volume	(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
Compressive Strength filled	(kPa)	250	
Compressive Strength unfilled	(kPa)	50	
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. 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. Non-load bearing walls can be built off 60+RS.
6. Please refer to separate sheets for fixing instructions. A COSHH certificate is available on request.

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Blackdown Greenroofs

Address: Street Ash Nursery, Lisieux Way, Combe St Nicholas, Chard, St Nicholas, Chard, Somerset TA20 3HZ

Tel: 01460 234 582 **Email:** enquiries@blackdown.co.uk **Web:** www.blackdown.co.uk

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