

ROOFDRAIN 60S+RX is a geocomposite drainage and water attenuation layer comprising a perforated cusped HDPE (High Density Polyethylene) core. After installation ROOFDRAIN 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. The core is perforated to allow excess rainwater to flow into the underside and away through the ROOFDRAIN to the outlets. Its major application is in extensive roof garden drainage where ROOFDRAIN provides a lightweight drainage layer and water reservoir to sustain plant growth. ROOFDRAIN makes extensive use of recycled polymers in its construction.

Core Properties				
Thickness at 2kPa	(mm)	60	nominal	EN ISO 9863-1
Tensile strength MD / CMD	(kN/m)	11.5 / 11.5	-20%	EN ISO 10319
Elongation at peak MD / CMD	(%)	57 / 57	nominal	EN ISO 10319
Mass per unit area (dry)	(g/m²)	2 200		EN ISO 9864
Mass/unit area (saturated)	(g/m²)	26 000	(indicative)	
Water reservoir volume	(l/m²)	23		
Water reservoir volume	(l/m²)	11	(when filled with lightweight drainage aggregate)	
Water flow normal to the plane	(l/m²·s)	0.55	-15%	EN ISO 11058
<u>In-plane water flow MD and CMD</u>		<u>10%</u>	<u>3%</u>	<u>1%</u>
at 20kPa confining pressure	(l/m·s)	12.5	5.5	2.5
with hard contact surfaces to simulate installation on rigid surfaces. The confining pressures of the flow rates shown above are all equal to or less than the long-term compressive strength of the product.				
Resistance to weathering		To be covered in 14 days		EN 12224
Resistance to chemicals		Excellent		EN 12225
Design life		120 years (manufacturer's declaration)		
Geotextile Properties		Terrex NW9 (Geotextile supplied separately)		
Mass per unit area	(g/m²)	110	-13%	EN ISO 10319
Breakthrough head	(mm)	0	nominal	
Pore size O ₉₀	(µm)	115	±30%	EN ISO 12956
CBR puncture resistance	(N)	1 500	-20%	EN ISO 12236
Dynamic perforation cone drop	(mm)	30	+20%	EN ISO 13433
Type and material	Non-woven needle-punched and heat-treated long staple fibre polypropylene			
Product Dimensions				
Standard roll dimensions	0.92 x 15.2 m. The product is rolled with the dimples inward and will require to be turned over during installation. Geotextile is supplied separately in rolls 4.5 m x 100 m.			

- 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 Final determination of the suitability of any information is the sole responsibility of the user. ABG 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.
- 3 The tolerance on roll length is ±1.5% and on roll width is ±1.0%.
- 4 Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.
- 5 Non-load bearing walls can be built off Roofdrain.