gt Roofdrain 60mm

gtRoofdrain 60mm is a geocomposite drainage and water attenuation layer comprising a perforated cuspated HDPE (High Density Polyethylene) core. After installation gtRoofdrain 60mm 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 gtRoofdrain 60mm to the outlets. Its major application is in extensive roof garden drainage where gtRoofdrain 60mm provides a lightweight drainage layer and water reservoir to sustain plant growth. gtRoofdrain 60mm makes extensive use of recycled polymers in its construction.

Geocomposite Properties	Unit	Value	Tolerance	Test
Thickness at 2kPa	(mm)	60	nominal	EN ISO 9863-1
Tensile strength MD/CMD	(kN/m)	20	-10%	EN ISO 10319
Elongation at Peak MD/CMD	(%)	75	nominal	EN ISO 10319
Mass per unit area (dry)	(g/m^2)	2200		EN ISO 9864
Mass per unit area (saturated)	(g/m^2)	26,000	(indicative)	
Water reservoir volume	(l/m^2)	11 (when filled with lightweight drainage aggregate)		
Water flow normal to the plane	($l/m^2.s$)	0.55	-15%	EN ISO 11058
Resistance to weathering		To be covered in 14 days		EN 12224
Resistance to microbes		Excellent		EN 12225
Design Life		120 years (manufacturer's declaration)		

Rabbit Hill Business Park, Great North Road, Arkendale, Knaresborough HG5 0FF

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In plane water flow MD & CMD		10%	3%	1%	Hydraulic gradient
at 20kPa confining pressure	(l/m.s)	12.5	5.5	2.5	EN ISO 12958
with hard contact surfaces to simulate installation on rigid surfaces					

Geotextile Properties Terrex NW8	**Unit**	**Terrex NW8**		**Tolerance**	**Test**
Mass per unit area	(g/m^2)	100		-13%	EN ISO 10319
Breakthrough Load	(mm)	0			BS 6906 pt 3
Pore size O_{90}	(µm)	130		±30%	EN ISO 12956
CBR puncture resistance	(N)	1400		-20%	EN ISO 12236
Dynamic perforation cone drop	(mm)	34		+20%	EN ISO 13433
Type & Material	Non-woven needle-punched & heat-treated long staple fibre polypropylene				

Standard Roll Dimensions:
0.92 x 15.2 m. The product is normally rolled with the lower textile inward and will require to be turned over during installation.

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. Green-tech 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 Roofdrain.
6. The hydraulic performance of the lower face textile does not influence overall product performance.
7. A COSHH certificate is available on request.

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