Technical Data Sheet

gtROOFDRAIN 40S1RXTH

Soils, Growing Media & Barks

Gtroofdrain is a lightweight and consistent drainage layer that collects and stores water to irrigate plants during low rainfall periods. The core acts as a water reservoir for plant roots to access in dry periods.

GEOCOMPOSITE PROPERTIES						
Thickness at 2kPa	(mm)	43			nominal	EN ISO 9863-1
Tensile strength MD / CMD	(kN/m)	37 / 34			-10%	EN ISO 10319
Elongation at peak MD / CMD	(%)	50 / 50			nominal	EN ISO 10319
Mass per unit area (dry)	(g/m^2)	2 200				EN ISO 9864
Mass/unit area (saturated)	(g/m^2)	16 200			(indicative)	
Water reservoir volume	(l/m^2)	14				
Water flow normal to the plane	($l/m^2 \cdot s$)	1.4			-15%	EN ISO 11058
In-plane water flow MD and CMD		10%	3%	1%		Hydraulic gradient
at 20kPa confining pressure	(l/m·s)	10.1	4.5	2.0		EN ISO 12958
with **hard** contact surfaces to simulate installation on rigid surfaces						
Resistance to weathering		The geotextile has high UV stabilisation which may allow exposure up to 12 months depending on location				EN 12224
Resistance to chemicals		Excellent				EN 12225
Design life		120 years (manufacturer's declaration)				

GEOTEXTILE PROPERTIES				
Thickness at 2kPa	(g/m^2)	250	-13%	EN ISO 10319
Tensile strength MD/CMD	(mm)	0	nominal	
Pore size O_{90}	(µm)	70	±30%	EN ISO 12956
CBR puncture resistance	(N)	3 400	-20%	EN ISO 12236
Dynamic perforation cone drop	(mm)	17	+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 20 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 laboratories and testing institutes. In line with policies 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.
5. Non-load bearing walls can be built off Roofdrain.

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