

Technical Data Sheet

gtROOFDRAIN 20SRXSSG



**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)	22.2	nominal	EN ISO 9863-1
Tensile strength MD / CMD	(kN/m)	19 / 19	approx	EN ISO 10319
Elongation at peak MD / CMD	(%)	40 / 50	nominal	EN ISO 10319
Mass per unit area (dry)	(g/m ²)	1 540		EN ISO 9864
Mass/unit area (saturated)	(g/m ²)	7 040	(indicative)	
Water reservoir volume	(l/m ²)	5.5		
Water flow normal to the plane	(l/m ² -s)	2.5	-15%	EN ISO 11058
In-plane water flow MD and CMD				
		<u>10%</u>	<u>3%</u>	<u>1%</u>
at 20kPa confining pressure	(l/m-s)	3.95	1.88	0.85
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 28 days			EN 12224
Resistance to chemicals	Excellent			EN 12225
Design life	120 years (manufacturer's declaration)			

GEOTEXTILE PROPERTIES

Thickness at 2kPa	(g/m ²)	120	-13%	EN ISO 9863-1
Tensile strength MD/CMD	(mm)	0	nominal	EN ISO 10319
Pore size O_{90}	(μ m)	120	$\pm 30\%$	EN ISO 12956
CBR puncture resistance	(N)	1 600	-20%	EN ISO 12236
Dynamic perforation cone drop	(mm)	32	+20%	EN ISO 13433
Type and material	Non-woven needle-punched and heat-treated long staple fibre polypropylene			

PRODUCT DIMENSIONS

Standard roll dimensions	0.915 m x 50 m. Other sizes on request. The product is normally rolled with the lower textile inward and will require to be turned over during installation.
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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. Final determination of the suitability of any information is the sole responsibility of the user.
3. The tolerance on roll length is $\pm 1.5\%$ and on roll width is $\pm 1.0\%$.
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.
6. The hydraulic performance of the lower face textile does not influence overall product performance.

Green-tech endeavour to ensure that the information given on this technical data sheet is accurate but accept no liability for its use or suitability for particular application.

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