

## Technical Data Sheet

# gtROOFDRAIN 40S1RXSSH



**Soils, Growing  
Media & Barks**

Groovedrain 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)	45	nominal	EN ISO 9863-1
Tensile strength MD / CMD	(kN/m)	45 / 40	-10%	EN ISO 10319
Elongation at peak MD / CMD	(%)	45 / 45	nominal	EN ISO 10319
Mass per unit area (dry)	(g/m <sup>2</sup> )	2 500		EN ISO 9864
Mass/unit area (saturated)	(g/m <sup>2</sup> )	16 500	(indicative)	
Water reservoir volume	(l/m <sup>2</sup> )	14		
Water flow normal to the plane	(l/m <sup>2</sup> ·s)	1.4	-15%	EN ISO 11058
In-plane water flow MD and CMD		10%	3%	1%
at 20kPa confining pressure		7.0	3.4	1.8
				Hydraulic gradient
				EN ISO 12958
with <b>hard</b> 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 <sup>2</sup> )	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.
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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. 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.

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.

01423 332100  
sales@green-tech.co.uk  
www.green-tech.co.uk

