## **Technical Data Sheet**





Soils, Growing Media & Barks

A lightweight, high performance drainage layer with integrated filter geotextile to eliminate clogging for intensive green roofs. gtDeckdrain has been developed to provide high flow capacity and waterproofing. It is durable and sufficiently robust to resist mechanical stresses imposed during installation and throughout its lifespan.

GEOCOMPOSITE PROPER	RTIES					
Thickness at 2kPa	(mm)	52			±10%	EN ISO 9863-1
Mass per unit area	$(g/m^2)$	2 300			approx	EN ISO 9864
Tensile strength MD / CMD	(kN/m)	28 / 28			-10%	EN ISO 10319
Elongation at peak MD / CMD	(%)	25 / 25			nominal	EN ISO 10319
CBR puncture resistance	(N)	4 800			-20%	EN ISO 12236
Perpendicular Water Inflow	(dimple side only)					
Water flow at 50mm head	$(I/m^2 \cdot s)$	72			±30%	EN ISO 11058
At 2kPa permeability (coefficient)	(m/s)	2.8 x 10 <sup>-3</sup>			±30%	EN ISO 11058
Breakthrough head	(mm)	0			nominal	
In-plane water flow MD <sup>3</sup>		HG = 1.0		HG = 0.1		<u>Hydraulic gradient</u>
at 20kPa confining pressure	(l/m·s)	95	estimated	29	estimated	
at 50kPa confining pressure	(l/m·s)	90	estimated	27.5	estimated	
estimated water flow values ba	sed on comp	outational flui	d dynamics mo	delling, see	Note 5	
Resistance to weathering	The geotextile has high UV stabilisation which r exposure up to 12 months depending on locati					EN 12224
Resistance to chemicals		Excellent				EN 14030
Design life	120 years (manufacturer's declaration)					
GEOTEXTILE PROPERTIES	S					
Thickness at 2kPa	(mm)	1.75			±20%	EN ISO 9863-1
Tensile strength MD/CMD	(kN/m)	20 / 20			-13%	EN ISO 10319
Pore size 0 <sub>90</sub>	(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	0.915 m x 2	5 m. Other sizes	s on request			
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## NOTE:

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.



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.

<sup>2.</sup> The tolerance on roll length is  $\pm 1.5\%$  and on roll width is  $\pm 1.0\%$ .

<sup>3.</sup> Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.

 $<sup>{\</sup>it 4. Final \ determination \ of the \ suitability \ of \ any \ information \ is \ the \ sole \ responsibility \ of \ the \ user.}$ 

<sup>5.</sup> DECKDRAIN 5000S is a product primarily developed for the gas venting market and as such has not been tested in accordance with water flow codes. The estimated water flow values given are based on CFD simulation.