

Technical Data Sheet

gtDECKDRAIN 2540S/NW20XUV



**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 PROPERTIES

Thickness at 2kPa	(mm)	26.9		±10%		EN ISO 9863-1
Mass per unit area	(g/m ²)	2 500		approx		EN ISO 9864
Tensile strength MD / CMD	(kN/m)	20 / 20		-13%		EN ISO 10319
Elongation at peak MD / CMD	(%)	45 / 55		nominal		EN ISO 10319
CBR puncture resistance	(N)	5 600		-20%		EN ISO 12236
Perpendicular Water Inflow	(dimple side only)					
Water flow at 50mm head	(l/m ² ·s)	75		±30%		EN ISO 11058
At 2kPa permeability (coefficient)	(m/s)	2.8 x 10 ⁻³		±30%		EN ISO 11058
Breakthrough head	(mm)	0		nominal		
In-plane water flow MD ²			HG = 1.0		HG = 0.1	Hydraulic gradient
at 20kPa confining pressure	(l/m·s)	11.75	-20%	4.05	-20%	EN ISO 12958
at 100kPa confining pressure	(l/m·s)	9.15	-20%	2.85	-20%	EN ISO 12958
at 200kPa confining pressure	(l/m·s)	7.95	-20%	2.35	-20%	EN ISO 12958
with soft foam contact surfaces to simulate textile intrusion into the core due to soil pressure. 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 14030
Design life		120 years (manufacturer's declaration)				

GEOTEXTILE PROPERTIES

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_{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	0.915 m x 50 m. Other sizes on request.					
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NOTES

- 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.
- Final determination of the suitability of any information is the sole responsibility of the user.
- The tolerance on roll length is ±1.5% and on roll width is ±1.0%.
- Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.

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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