

Technical Data Sheet

gtDECKDRAIN 400S/NW8



**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)	4.6		±10%	EN ISO 9863-1	
Mass per unit area	(g/m ²)	590		approx	EN ISO 9864	
Tensile strength MD / CMD	(kN/m)	9.5 / 9.5		-13%	EN ISO 10319	
Elongation at peak MD / CMD	(%)	40 / 50		nominal	EN ISO 10319	
CBR puncture resistance	(N)	2 150		-20%	EN ISO 12236	
Perpendicular Water Inflow	(dimple side only)					
Water flow at 50mm head	(l/m ² -s)	101		±30%	EN ISO 11058	
At 2kPa permeability (coefficient)	(m/s)	2.6 x 10 ⁻³		±30%	EN ISO 11058	
Breakthrough head	(mm)	0		nominal		
In-plane water flow MD ³		HG = 1.0		HG = 0.1	Hydraulic gradient	
at 20kPa confining pressure	(l/m-s)	0.85	±0.15	0.25	±0.07	EN ISO 12958
at 100kPa confining pressure	(l/m-s)	0.65	±0.15	0.20	±0.05	EN ISO 12958
at 200kPa confining pressure	(l/m-s)	0.55	±0.15	0.15	±0.05	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)	1.2		±20%	EN ISO 9863-1
Tensile strength MD/CMD	(kN/m)	9.5 / 9.5		-13%	EN ISO 10319
Pore size O ₉₀	(µm)	120		±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	1.1 m x 50 m or 2.2 m x 25 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.
- CMD flow is typically 80% of the value in the MD.
- 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.