

ROOFDRAIN 25SRXNTg is a geocomposite drainage and water attenuation layer comprising a perforated cusped HDPE (High Density Polyethylene) core with a selected geotextile thermally bonded on the flat upper side. It is primarily intended for use under thin soil layers where the plant roots can reach down to the water in the core reservoirs. The core is perforated to allow excess rainwater to flow into the underside and away through the ROOFDRAIN to the outlets. The geotextile is optimised for drainage performance. Its major application is in extensive roof garden drainage where ROOFDRAIN provides a lightweight drainage layer and water reservoir to sustain plant growth. ROOFDRAIN makes extensive use of recycled polymers in its construction.

Geocomposite Properties					
Thickness at 2kPa	(mm)	26.0	nominal	EN ISO 9863-1	
Tensile strength MD / CMD	(kN/m)	9.5 / 9.5	-10%	EN ISO 10319	
Elongation at peak MD / CMD	(%)	40 / 50	nominal	EN ISO 10319	
Mass per unit area (dry)	(g/m ²)	1 370		EN ISO 9864	
Mass/unit area (saturated)	(g/m ²)	5 670	(indicative)		
Water reservoir volume	(l/m ²)	4.3			
Water flow normal to the plane	(l/m ² -s)	8.0	-15%	EN ISO 11058	
In-plane water flow MD and CMD		10%	3%	1%	Hydraulic gradient
at 20kPa confining pressure	(l/m-s)	4.50	2.10	1.25	EN ISO 12958
with hard contact surfaces to simulate installation on rigid surfaces					
Resistance to weathering		To be covered in 28 days		EN 12224	
Resistance to microbes		Excellent		EN 12225	
Design life		120 years (manufacturer's declaration)			
Geotextile Properties					
Mass per unit area	(g/m ²)	120	-13%	EN ISO 10319	
Breakthrough head	(mm)	0	nominal		
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	0.92 x 50 m. The product is normally rolled with the dimples inward and will require to be turned over during installation.				

Notes

- The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
- 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.
- Final determination of the suitability of any information is the sole responsibility of the user. ABG will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.
- Non-load bearing walls can be built off Roofdrain.