

POZIDRAIN 7D240D/NW8 is a geocomposite drainage layer comprising a double cusped HDPE (High Density Polyethylene) core with geotextile filters thermally bonded on both sides. Each textile filter has a flap extending beyond the core on opposite edges. The product is permeable on both sides. The major application is its use instead of stone drainage and gas venting layers in landfill containment systems.

Geocomposite Properties							
Thickness at 2kPa	(mm)	8.6		±10%	EN ISO 9863-1		
Mass per unit area	(g/m ²)	890		approx	EN ISO 9864		
Tensile strength MD / CMD	(kN/m)	19 / 19		-13%	EN ISO 10319		
Elongation at peak MD / CMD	(%)	40 / 50		nominal	EN ISO 10319		
CBR puncture resistance	(N)	4 300		-20%	EN ISO 12236		
Perpendicular Water Inflow							
Water flow at 50mm head	(l/m ² ·s)	104		±30%	EN ISO 11058		
At 2kPa permeability (<i>coefficient</i>)	(m/s)	2.6 x 10 ⁻³		±30%	EN ISO 11058		
Breakthrough head	(mm)	0		nominal			
In-plane water flow MD and CMD		HG = 1.0		HG = 0.1		Hydraulic gradient	
at 20kPa confining pressure	(l/m·s)	1.75	±0.35	0.50	±0.10	EN ISO 12958	
at 50kPa confining pressure	(l/m·s)	1.50	±0.30	0.45	±0.09	EN ISO 12958	
at 100kPa confining pressure	(l/m·s)	1.25	±0.25	0.35	±0.07	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 staple fibre polypropylene						
Product Dimensions							
Standard roll dimensions	1.1, 2.2 or 4.4 m width. Roll lengths on request						

- 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.
- Final determination of the suitability of any information is the sole responsibility of the user. ABG would 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.
- The tolerance on roll length is ±1.5% and on roll width is ±1.0%; in multi-core products this may manifest itself between core elements.
- Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.

