



# Technical data sheet

## Drainotec D200-V1-400 & D200-V1-240

### EPS PARTICULES

	Test method	Unit	Tolerance	Nominal value
Raw material	Expanded polystyrene (PSE)			
Apprent density		kg/m <sup>3</sup>		15 - 20
Absolute density		kg/m <sup>3</sup>		25 - 30
Void space		%		58
Water absorption in 7 days	NF EN 12087:2013	%		2,00
Water absorption in 21 days	NF EN 12087:2014	%		2,20
Average units per m <sup>3</sup> (and granulometry)		u	20 to 40 mm <sup>3</sup>	1600 ( +/-10%)

### MAIN BAG (GEOGRID)

	Test method	Unit	Tolerance	Nominal value
Raw material	UV stabilized High Density woven Polyethylene (HDPE)			
Mass per unit area	NF EN ISO 12958	g/m <sup>2</sup>		165
Tensile strength	NF EN ISO 10319	kN/m		35
Elongation at maximum load	NF EN ISO 10319	%	+/- 5%	25
Deformation after creep (1 hour @ 50 kPa)	NF EN 1897	%		5,9
Mesh sizes		µm		300
Strand diameter		mm		0,285
Number of strands by cm <sup>2</sup>		u		16
Water flow capacity under 20 kPa	NF EN ISO 12958	l/s/m <sup>2</sup>	+/- 5%	65
UV resistant				Yes

### BLANKET PROTECTION (GEOTEXTILE)

	Test method	Unit	Tolerance	Nominal value
Raw material	Geotextile 100% polypropylene (PP), mechanically continuous filament nonwovens			
Mass per unit area	NF EN ISO 12958	g/m <sup>2</sup>		150
Tensile strength (MD / CD)	NF EN ISO 10319	kN/m		12 / 12
Elongation at maximum load (MD / CD)	NF EN ISO 10319	%		80 / 70
Dynamic perforation	NF EN ISO 13433	mm		25
Puncture resistance	NF G 38-019	kN		0,7
CBR puncture resistance	NF EN ISO 12236	kN		1,75
Water permeability normal to the plane	NF EN ISO 11058	m/s		0,10
Characteristic opening size	NF EN ISO 12956	µm		100
Water flow capacity under 20 kPa	NF EN ISO 12958	10 <sup>-7</sup> m <sup>2</sup> /s		10
Thickness under 2 kPa	NF EN ISO 9863-1	mm		1,05
Durability guaranteed 25 years on natural soils with a pH <4 and a pH >9 and soil temperature >25°C				

### SEWING THREADS & ZIPPER

	Test method	Unit	Tolerance	Nominal value
Raw material	Polyethylene & polypropylene	mm		0,3
Implementation technique				5-thread serged seam (2+3)
Spiral zipper	Not separable	22 mm		Nylon, polyester tape

### MODULE DRAINOTEC

			D200-V1-400	D200-V1-240
Length x width x height		cm	200 x 50 x 40	200 x 40 x 30
Weight		kg	5	2,5
Retention capacity		litres / ml	115	70
Minimum burial depth	Depend on soil	m	0,30 to 0,50	0,30 to 0,50
Maximum burial depth	Depend on soil	m	3,00 to 6,00	3,00 to 6,00