

Phi (Ireland) Ltd.

Unit 8A, Keypoint
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Technical Information

Product description: Double or triple layered, 3-Dimensional, filter stable and high compression resistance drainage system consisting of an extruded wave-shaped monofilament core and a needlepunched nonwoven bonded on at least one side.

Drainage
Geomembrane

Technical data	Test Method (based on)	Unit	R201 WD 601	R151 WD 451 R 151	R151 WD 601 R 151	R201 WD 601 R 201
Water flow q, (h,h) - at a load of 20 kPa - at a load of 50 kPa	DIN EN ISO 12958	l/(m x s)	i=0.1 1.56 x 10 ⁺⁰ i=0.1 1.21 x 10 ⁺⁰		i=0.1 6.55 x 10 ⁻¹ i=0.1 4.46 x 10 ⁻¹	i=0.1 6.55 x 10 ⁻¹ i=0.1 4.46 x 10 ⁻¹
Water flow q, (h,h) - at a load of 20 kPa - at a load of 50 kPa	DIN EN ISO 12958	l/(m x s)	i=0.3 2.93 x 10 ⁺⁰ i=0.3 2.29 x 10 ⁺⁰		i=0.3 1.28 x 10 ⁺⁰ i=0.3 8.91 x 10 ⁻¹	i=0.3 1.28 x 10 ⁺⁰ i=0.3 8.91 x 10 ⁻¹
Water flow q, (h,h) - at a load of 20 kPa - at a load of 50 kPa	DIN EN ISO 12958	l/(m x s)	i=1.0 5.75 x 10 ⁺⁰ i=1.0 4.35 x 10 ⁺⁰	i=1.0 2 x 10 ⁻¹ i=1.0 1 x 10 ⁻¹	i=1.0 2.66 x 10 ⁺⁰ i=1.0 1.87 x 10 ⁺⁰	i=1.0 2.66 x 10 ⁺⁰ i=1.0 1.87 x 10 ⁺⁰
Raw materials	-	-	polypropylene	polypropylene	polypropylene	polypropylene
Mass per unit area (upper geotextile, PP white)	DIN EN 965	g/m ²	200	150	150	200
Thickness (upper geotextile)	DIN EN964-1	mm	2.5	1.7	1.7	2.5
Mass per unit area (drainage core, PP black)	DIN EN 965	g/m ²	600	450	600	600
Thickness (drainage core)	DIN EN964-1	mm	11	7	11	11
Mass per unit area (lower geotextile, PP white)	DIN EN 965	g/m ²	-	150	150	200
Thickness (lower geotextile)	DIN EN964-1	mm	-	1.7	1.7	2.5
Geotextile Properties	R 201					
Tensile strength (md/cmd)	DIN EN ISO 10319	kN/m	8.0/12.0	5/8	5/8	8.0/12.0
Elongation at max. strength (md/cmd)	DIN EN ISO 10319	%	50/40	50/40	50/40	50/40
Characteristic opening size	DIN EN ISO 12956	mm	0.12	0.13	0.13	0.12
Water permeability - V _{IH50} Index	DIN EN ISO 11058	m/s	1.1 x 10 ⁻¹	1.0 x 10 ⁻¹	1.0 x 10 ⁻¹	1.0 x 10 ⁻¹
Water permeability - flow rate _{H50}	DIN EN ISO 11058	l/sm ²	110	100	100	100
Standard roll dimension	-	-	2 x 35	2 x 35	2 x 35	2 x 35

Please contact our office for information regarding geotextiles that are not covered in this chart.

The above technical values are average values over the roll width. These data are guiding values achieved in laboratories and independent testing institutes. Our products can be subject to change without prior notice.

