

Filter stable drainage systems

Secudrain® WD

Product description

Double- or three-layered, three-dimensional, filter stable and high compression resistance drainage systems consisting of an extruded wave-shaped monofilament core and a needle-punched nonwoven fully bonded at least on one side



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Property	Test method*	Unit	201 WD 601	201 WD 601 201
Total product	-	-		
Water flow rate $q_{(h/h)}$ - at a load of 20 kPa - at a load of 50 kPa	EN ISO 12958	l/(m x s)	$i = 0.1$ $1.3 \times 10^{+0}$ $i = 0.1$ $1.0 \times 10^{+0}$	$i = 0.1$ 5.0×10^{-1} $i = 0.1$ 4.0×10^{-1}
Water flow rate $q_{(h/h)}$ - at a load of 20 kPa - at a load of 50 kPa			$i = 0.3$ $2.5 \times 10^{+0}$ $i = 0.3$ $2.0 \times 10^{+0}$	$i = 0.3$ 9.0×10^{-1} $i = 0.3$ 8.0×10^{-1}
Water flow rate $q_{(h/h)}$ - at a load of 20 kPa - at a load of 50 kPa			$i = 1.0$ $5.0 \times 10^{+0}$ $i = 1.0$ $4.0 \times 10^{+0}$	$i = 1.0$ $1.5 \times 10^{+0}$ $i = 1.0$ $1.0 \times 10^{+0}$
Mass per unit area	EN ISO 9864	g/m ²	800	1,000
Thickness	EN ISO 9863-1	mm	approx. 11.0	approx. 11.5
Max. tensile strength, md / cmd**	EN ISO 10319	kN/m	12.0 / 16.0	22.0 / 28.0
Elongation at max. tensile strength, md / cmd**	EN ISO 10319	%	50 / 40	50 / 40
Puncture force	EN ISO 12236	kN	2.3	4.8
Raw material	-	-	polypropylene	
Geotextiles	201 (/ 201)	-		
Mass per unit area	EN ISO 9864	g/m ²	200	
Thickness	EN ISO 9863-1	mm	2.5	
Characteristic Opening Size	EN ISO 12956	mm	0.12	
Water permeability - $V_{I_{H50}}$ -Index - Flow rate _{H50}	EN ISO 11058	m/s l/sm ²	1.0×10^{-1} 100	
Roll dimension, width x length	-	m x m	3.80 / 1.90 x 35	

*based on, **md = machine direction, cmd = cross machine direction

The listed technical values are guiding values, achieved in our laboratories and/or independent testing institutes. Our products are subject to changes without prior notice.