

# Filter stable drainage systems

## Secudrain® WD



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### 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

Property	Test method*	Unit	151 WD 451	151 WD 451 151
<b>Total product</b>	-	-		
Water flow rate $q_{(h/h)}$ - at a load of 20 kPa	EN ISO 12958	l/(m x s)	<i>i</i> = 0.1	<i>i</i> = 0.1
- at a load of 50 kPa			$1.5 \times 10^{-1}$	$1.0 \times 10^{-1}$
Water flow rate $q_{(h/h)}$ - at a load of 20 kPa			<i>i</i> = 0.1	<i>i</i> = 0.1
- at a load of 50 kPa			$1.3 \times 10^{-1}$	$9.0 \times 10^{-2}$
Water flow rate $q_{(h/h)}$ - at a load of 20 kPa			<i>i</i> = 0.3	<i>i</i> = 0.3
- at a load of 50 kPa			$3.0 \times 10^{-1}$	$2.0 \times 10^{-1}$
Water flow rate $q_{(h/h)}$ - at a load of 20 kPa	EN ISO 9864	g/m <sup>2</sup>	<i>i</i> = 0.3	<i>i</i> = 0.3
- at a load of 50 kPa			$2.0 \times 10^{-1}$	$1.8 \times 10^{-1}$
Water flow rate $q_{(h/h)}$ - at a load of 20 kPa	EN ISO 9863-1	mm	<i>i</i> = 1.0	<i>i</i> = 1.0
- at a load of 50 kPa			$8.0 \times 10^{-1}$	$5.5 \times 10^{-1}$
Mass per unit area	EN ISO 10319	kN/m	<i>i</i> = 1.0	<i>i</i> = 1.0
Thickness	EN ISO 12236	kN	$6.0 \times 10^{-1}$	$4.5 \times 10^{-1}$
Max. tensile strength, md / cmd**	-	-	600	750
Elongation at max. tensile strength, md / cmd**	EN ISO 10319	%	approx. 7.5	approx. 8.0
Puncture force	EN ISO 10319	%	6.5 / 11.0	12.0 / 18.0
Raw material	EN ISO 12236	kN	1.4	3.0
	-	-	polypropylene	
<b>Geotextiles</b>	<b>151 ( / 151)</b>	-		
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	150	
Thickness	EN ISO 9863-1	mm	1.7	
Characteristic Opening Size	EN ISO 12956	mm	0.13	
Water permeability	EN ISO 11058	m/s	$1.1 \times 10^{-1}$	
- $V_{I_{H50}}$ -Index				
- Flow rate <sub>H50</sub>				
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.