

# Geotextiles for filtration, erosion control and scour protection

## Terrafix®



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### Product description:

Needle-punched staple fibre nonwoven for application in hydraulic engineering according to TLG of the Federal Institute for Waterway Engineering (BAW), Karlsruhe

Property	Test method*	Unit	609	813
Raw material	-	-	polyester/polypropylene coloured	polypropylene coloured / polyester white
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	642	828
Thickness (x-s)**	EN ISO 9863-1	mm	5.3 / ≥ 4.5	6.7 / ≥ 6.0
Max. tensile strength (x-s)**, md / cmd***	EN ISO 10319	kN/m	≥ 12.0 / ≥ 12.0	≥ 12.0 / ≥ 12.0
Elongation at max. tensile strength, md / cmd***	EN ISO 10319	%	70 / 40	70 / 40
Resistance to static puncture loads on soil type 3	RPG of BAW	1200 Nm	yes	yes
Resistance to abrasion load	RPG of BAW	-	yes	yes
Characteristic opening size	EN ISO 12956	mm	0.1	0.08
Water permeability				
- V <sub>I</sub> H <sub>50</sub> -Index	EN ISO 11058	m/s	3.75 x 10 <sup>-2</sup>	3.99 x 10 <sup>-2</sup>
- flow rate <sub>H50</sub>		l/sm <sup>2</sup>	37.5	39.9
- k <sub>10,H50</sub>		m/s	2.86 x 10 <sup>-3</sup>	3.82 x 10 <sup>-3</sup>
Hydraulic filtration efficiency against soil type	RPG of BAW	-	1 / 2 / 3	1 / 2 / 3 / 4
Detector tested	-	-	no	yes
Roll dimensions, width x length	-	m x m	5.80 x 50	5.80 x 50

\*based on, \*\*(x-s) = average value - standard deviation, \*\*\*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.