

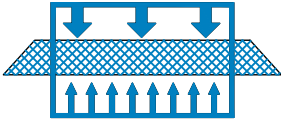
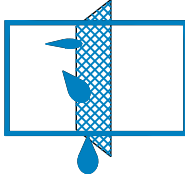
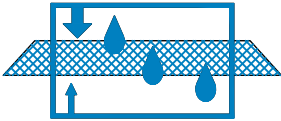
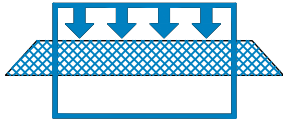
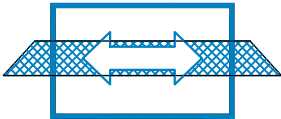
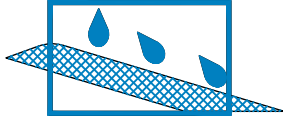
Specification & Technical Data

Non-woven geotextile fabric is made from 100% needle punched polypropylene for high filtration and penetration applications. It has durable life in gabion works in harsh environments, where require extra strength, high UV resistance and high rot prevention.

Popular Specification and Technical Data of Geotextile in Gabion Construction

Item	Unit	100 g/m ²	150 g/m ²	200 g/m ²	250 g/m ²	300 g/m ²	350 g/m ²	400 g/m ²	450 g/m ²	500 g/m ²	600 g/m ²	800 g/m ²
Unit Weight Variation	%	-8	-8	-8	-8	-7	-7	-7	-7	-6	-6	-6
Thickness	mm ≥	0.9	1.3	1.7	2.1	2.4	2.7	3.0	3.3	3.6	4.1	5.0
Width Variation	%	-5%										
Breaking Strength (MD/CD)	kN/m ≥	2.5	4.5	6.5	8.0	9.5	11.0	12.5	14.0	16.0	19	25
Breaking Elongation (MD/CD)	%	25-100										
CBR Burst Strength	kN ≥	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.2	4.0
Sieve Size	mm	0.07-0.2										
Vertical Permeability Coefficient	cm/s	$K \times (10^{-1} - 10^{-3})$ $K = 1.0-9.9$										
Tear Strength (MD/CD)	kN ≥	0.08	0.12	0.16	0.2	0.24	0.28	0.33	0.38	0.42	0.46	0.6

Application

	<p>Separation</p> <p>The use of a geotextile to prevent the intermixing of dissimilar soil layers.</p>		<p>Drainage</p> <p>The use of a geotextile layer is to collect and transport fluids within its own thickness.</p>
	<p>Filtration</p> <p>Allow fluid passage (commonly water) while prevent the uncontrolled soil particles passage.</p>		<p>Protection</p> <p>As a stress reduction layer to prevent or reduce damage to an adjacent surface or layer.</p>
	<p>Reinforcement</p> <p>The use of the tensile properties of geotextile is to resist stresses structures.</p>		<p>Erosion control</p> <p>The use of geotextile is to prevent loss of soil particles from water erosion.</p>