GABION BASKETS

we box rocks!

Gabion Geotextile Specifications

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PROPERTIES		UNITS	STANDARD GRADES							TEST METHOD
			A1	A2	A3	A4	A5	A6	A7	
GRAB STRENGTH	Min Strength	N	450	480	665	850	1045	1395	2100	ASTM D4632-86
	Elongation	%	70 - 95							
TRAPEZOIDAL TEAR STRENGTH	Min Strength	N	205	245	330	375	480	645	1050	ASTM D4533-85
PENETRATION LOAD	Penetration Load	kN	1.5	1.7	2.1	2.5	3.6	4.5	6.5	SABS 0221-88
BURST STRENGTH		MPa	1.3	1.5	2.1	2.5	3.0	4.2	6.3	ASTM D4533-86
NORMAL PERMEABILITY	1.0×10^{-3}	m/s	3.9	4.3	4.5	4.9	5.4	5.9	4.8	SABS 0221-88
TRANSMISSIVE THROUGHFLOW	under 20 kPa	L/hr	26	32	37	40	50	59	80	ASTM D4716
POROSITY	under 2 kPa	%	93	93	93	93	93	92	90	GTS
PORE SIZE	$O_{95\ W}$	µm	240	225	205	190	165	145	100	Franzius Institute
	$O_{95\ H}$	µm	195	185	170	155	125	100	70	NF.G 38017

GEOTEXTILE SELECTION

The table below provides an indication of the geotextile grade required for mechanical separation of soil layers, based on international standards and experience within South Africa. Engineering judgement should be used when selecting a geotextile for separation applications.

D_{85} of Fill Material (mm)	Geotextile Grade	
	Subgrade Strength CBR < 3	Subgrade Strength CBR > 3
< 37.5	A 5	A 4
< 75	A 6	A 5
< 200	A 7	A 6
< 400	A10	A 7

Note: This table applies only to geotextiles with a grab elongation of greater than 50%