

(SANS): **Fibertex** geotextiles are used in building and construction works for separation, filtration, drainage, protection, stabilisation and reinforcement. Fibertex geotextiles are manufactured from virgin polypropylene fibres with added UV stabiliser. The basic strength of the Fibertex geotextiles is obtained by needle punching the polypropylene fibres, which provides strong elastic bonding. Fibertex is highly durable and resistant to all natural occurring soil alkalis and acids.

## SPECIFICATIONS

Effective as of: 30.08.2017

			F-22 sa	F-25 sa	F-30 sa	F-32 sa	F-34 sa	F-46 sa	F-50 sa	F-55 sa		
<b>Durability Properties</b>												
<b>UV</b>			To be covered within 1 month after installation.								SANS 12224: 2013	
<b>UV Stability</b>			Min 70% retained strength after 500 hrs								ASTM D4355	
<b>Durability</b>			Predicted to be durable for a service life of 100 years in natural soils with $4 \leq \text{pH} \leq 9$ and soil temperatures $\leq 25^\circ\text{C}$ on the basis of the results of test method EN ISO 13438 procedure A.								EN ISO 13348: 2004	
<b>Physical Properties</b>												
<b>Thickness</b>	At 2 kPa	mm	0.7	0.7	0.8	0.9	1.0	1.2	1.6	1.8	SANS 9863:2013	
<b>Mechanical Properties</b>												
<b>Static Puncture Strength</b>	CBR Test	N	1 500	1 700	2 000	2 100	2 600	3 600	3 900	4 500	SANS 12236:2013	
<b>Elongation at break</b>		%	>45	>45	>45	>45	>45	>45	>45	>45	SANS 12236:2013	
<b>Tensile Strength</b>	MD/CMD	kN/m	8/8	10/10	11/11	12/12	15/15	21/21	23/23	26/26	SANS 1525:2013	
<b>Elongation at Break</b>		%	40-65	40-65	40-65	40-65	40-65	40-75	40-75	40-75	SANS 1525:2013	
<b>Dynamic Cone Drop</b>		mm	28	25	23	20	17	12	12	11	SANS 13433:2013	
<b>Hydraulic Properties</b>												
<b>Water Flow</b>	50mm Water Head	l/s/m <sup>2</sup>	106	77	71	54	54	27	43	25	SANS 11058:2013	
<b>Permeability</b>	50mm Water Head	m/s	0.10	0.07	0.07	0.05	0.05	0.03	0.04	0.02	SANS 11058:2013	
<b>Permittivity</b>	50mm Water Head	sec <sup>-1</sup>	2.13	1.55	1.43	1.08	1.08	0.60	0.87	0.50	SANS 11058:2013	
<b>Pore Size</b>	O <sub>90%</sub>	micron	70	70	70	70	70	70	70	70	SANS 12956:2013	
<b>Roll Dimensions</b>												
<b>Widths</b>	Maximum	m	6.0									
<b>Length</b>	Standard	m	150					100				
<b>Roll Diameter</b>	Approx.	cm	34	36	37	40	43	40	42	44		

An "M" in the Fibertex product code indicates it is needle punched only, and has not undergone thermal treatment.

Fibertex geotextiles are manufactured to ISO 9001:2008 quality management procedures. The above values represent Typical values based on current production test results.

The information contained in this publication is provided in good faith and to the best of our knowledge is true and accurate. Fibertex South Africa reserves the right to make technical modifications to their products without notice.

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• CUSPATED SHEETS • GEOBAGS • GCLs • GEOMEMBRANE

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## SPECIFICATIONS

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			F-400M sa	F-500M sa	F-550M sa	F-750M sa	F-1000M sa	F-1200M sa	
<b>Durability Properties</b>									
<b>UV</b>			To be covered within 1 month after installation.						SANS 12224: 2013
<b>UV Stability</b>			Min 70% retained strength after 500 hrs						ASTM D4355
<b>Durability</b>			Predicted to be durable for a service life of 100 years in natural soils with $4 \leq \text{pH} \leq 9$ and soil temperatures $\leq 25^\circ\text{C}$ on the basis of the results of test method EN ISO 13438 procedure A.						EN ISO 13348: 2004
<b>Physical Properties</b>									
<b>Thickness</b>	At 2 kPa	mm	3.4	4.2	4.4	5.5	6.5	7.0	SANS 9863:2013
<b>Mechanical Properties</b>									
<b>Static Puncture Strength</b>	CBR Test	N	4 500	6 500	7 100	9 800	12 500	14 000	SANS 12236:2013
<b>Elongation at break</b>		%	>55	>55	>55	>55	>55	>55	SANS 12236:2013
<b>Tensile Strength</b>	MD/CMD	kN/m	25.0/28.0	30.0/38.0	40.0/40.0	55.0/60.0	70.0/70.0	75.0/75.0	SANS 1525:2013
<b>Elongation at Break</b>		%	>50	>50	>50	>50	>50	>50	SANS 1525:2013
<b>Dynamic Cone Drop</b>		mm	8	4	3	$\leq 1$	0	0	SANS 13433:2013
<b>Hydraulic Properties</b>									
<b>Water Flow</b>	50mm Water Head	l/s/m <sup>2</sup>	42	38	25	23	16	15	SANS 11058:2013
<b>Permeability</b>	50mm Water Head	m/s	0.04	0.04	0.02	0.02	0.01	0.01	SANS 11058:2013
<b>Permittivity</b>	50mm Water Head	sec <sup>-1</sup>	0.85	0.76	0.50	0.47	0.32	0.29	SANS 11058:2013
<b>Pore Size</b>	O90%	micron	70	70	70	70	70	70	SANS 12956:2013
<b>Roll Dimensions</b>									
<b>Widths</b>	Maximum	m	6.0						
<b>Length</b>	Standard	m	50						
<b>Roll Diameter</b>	Approx.	cm	42	48	50	58	61	65	

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