

BETAGUM

BETAFELT GEOTEXTILE



**ENERGY PROJECTS
DEVELOPMENT LTD**

Geotextiles : Permeable textiles of synthetic fibres used in conjunction with soils or rocks as an integral part of a man made project, structure or system.

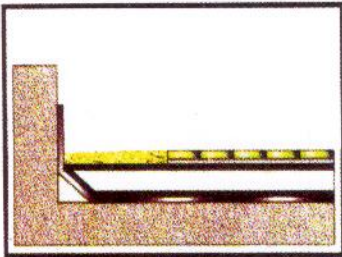
The earliest known attempt by man to control and stabilize earth has been by the Mesopotamians in using natural fascines for constructing ziggurats: ancient temples of learning. Today, BETAFELT geotextiles are used in projects world wide to offer durable and economical solutions to civil engineering problems. Apart from being the largest manufacturer of non-wovens in the world wide BETAFELT, offers a variety of finished products viz. needle punched, thermally stabilized and resinated geo fabrics based on end application need. betafelt geotaxtiles are used for more than 80 applications in civil engineering which can be broadly classified as :

- Separation
- Reinforcement
- Filtration
- Drainage
- Moisture barrier (when impregnated)

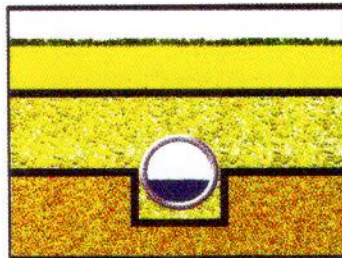
BETAFELT offers both polypropylene and polyester Geotextiles which find use in roofing water proofing membrane reinforcements; separation and reinforcement application in roads, airways, stockyards and hardstandages; protection systems in landfills, evaporation ponds and

containments; filtration and drainage applications in sub-surface drains basal drains, retaining walls, water conveyance systems; ground stabilization for embankments; erosion prevention in waterfront structures; slope erosion prevention in embankments; temporary retaining walls, asphaltic overlays; landscaping fabrics; silt fences; shoe linings/insoles; carpet backing dust filters

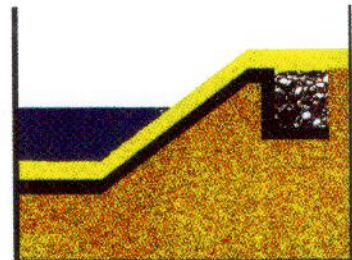
APPLICATION



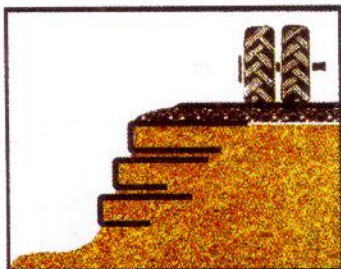
ROOFING SYSTEMS



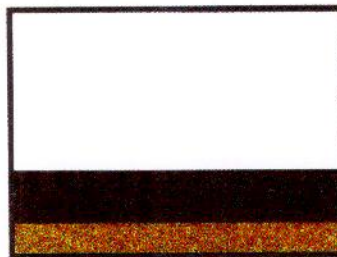
BASAL DRAINS



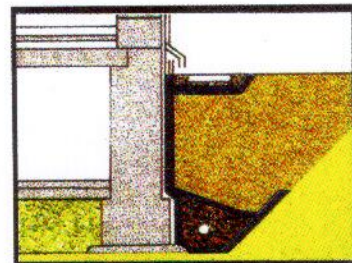
CONTAINMENT SYSTEMS



TEMPORARY RETAINING WALLS



ASPHAL TIC OVERLAYS



FOUNDATION PROTECTION

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Nonwoven Geotextiles Technical Data

Properties	Test Method	Unit	A		C	D	E	F	G	H	I	J	K	L	M	N	O	
Functional	CBR Puncture	N	1000	1200	1400	1800	2000	2500	2800	3200	3500	4000	4500	5100	6100	8100	10000	
	Puncture Strength	N	180	220	260	360	420	2500	550	700	850	950	1100	1200	1500	2000	2400	
	Dynamic Puncture	mm	30	26	22	19	18	14	14	12	9	8	7	5	0	0	0	
	Mullen Burst	PSI	130	160	185	290	300	360	400	450	530	630	700	770	900	1100	1300	
	Elongation at 30 % Load	%	30	30	30	30	30	30	30	30	30	30	30	35	35	35	35	
	Flow Rate (10cm Head)	l/m ² /s	240	200	190	120	100	95	185	190	200	200	220	240	300	340	380	420
	Permeability	sm/s	0.35	0.32	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
	Transmissivity (2kN/ms)	l/m ² /h	100	120	140	160	170	185	190	190	200	200	220	240	300	340	380	420
	Opening Size (095)	micron	106	106	106	75	75	75	75	75	75	75	75	75	75	75	75	75
	Tensile - 5cm Strip (CD)	N	200	280	340	630	700	900	900	1100	1200	1500	1800	2000	2100	2800	3100	3800
	Tensile - 5cm Strip (MD)	N	170	235	280	380	420	520	520	600	700	820	850	1050	1100	1300	1700	2000
	Minimum Elongation	%	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Index	Grab Strength (CD)	N	215	290	340	520	700	900	1100	1180	1500	1750	2000	2100	3000	3200	3500
Grab Strength (MD)		N	190	250	300	400	470	600	700	800	930	1000	1150	1200	1500	1800	2100	
Min. Grab Elongation		%	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
Trapezoidal Tear (CD)		N	110	140	160	250	340	430	500	530	580	900	900	1000	1200	1500	1800	
Trapezoidal Tear (MD)		N	100	120	140	180	200	250	280	300	350	400	450	500	350	800	1000	
Thickness (2kN/M ²)		mm	1.4	16	1.8	2.2	2.5	2.7	3.0	3.0	3.2	3.5	3.8	4.2	4.7	5.2	7.0	8.5
Mass Per Unit Area		g/m ²	100	120	140	180	200	250	280	280	300	350	400	450	500	600	800	10000
Roll Size (W x L)		m	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 50	3 x 50

Values reported in this data sheet are indicative average results obtained in our laboratory and independent testing laboratories. The right is reserved to make changes at any time without notice