PLUVITEC

Accessory Items

EVOFELT

NON - WOVEN GEOTEXTILE

Technical data sheet

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.

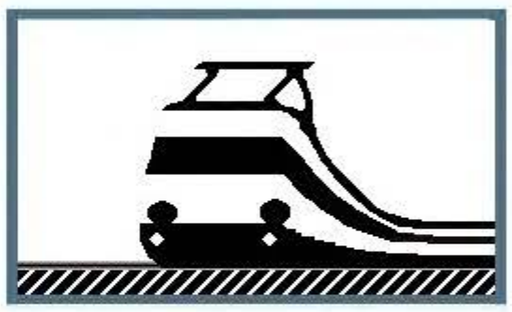
The earliest known attempt by man to control and stabilize earth has been by the Mesopotamians in using natural fascines for constructing ziggurats: ancient temples of learning. Today, EVOFELT geotextiles are used in projects world wide to offer durable and economical solutions to civil engineering problems.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

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

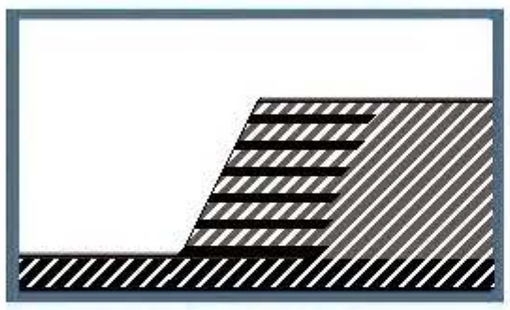
EVOFELT offers both polypropylene and polyester Geotextiles which find use in roofing water proofing membrane reinforcements: separation and reinforcement application in roads, railways, stockyards and hardstandages; protection systems in landfills, evaporation pondsand and containments: filtration and drainage applications in sub-surface drains basal, retaining walls, water conveyance systems; ground stabilization for embarkments; erosion prevention in waterfront structures; slope erosion prevention in embarkments; temporary retaining walls, asphaltic overlays; landscaping fabrics; silt fences; shoe linings/insoles; carpet backing dust filters

APPLICATION

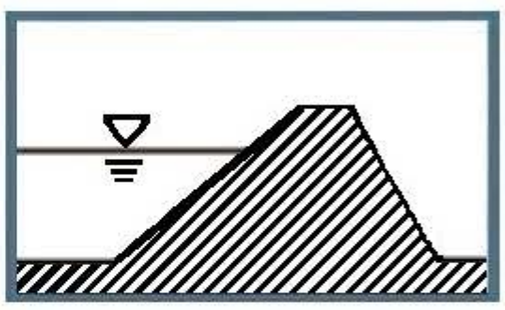
Roads



Railroads



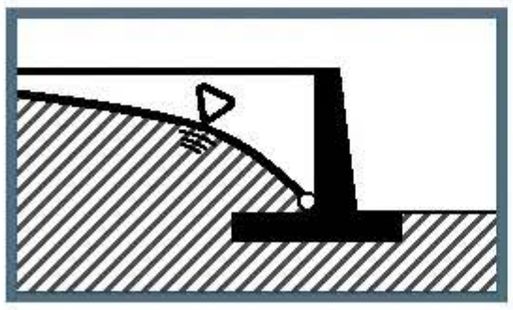
Retaining walls



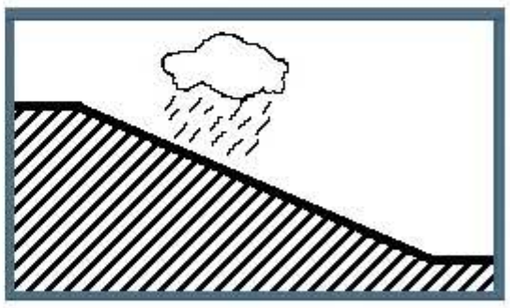
Reservoirs, dams

Liquid waste

Solid waste



Drainage systems



Erosion protection

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TECHNICAL DATA
NON - WOVEN GEOTEXTILE

CE

EVOFELT

	Properties	Test Method	Unit	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Functional	CBR Puncture	EN ISO 12236	N	1000	1200	1400	1800	2000	2500	2800	3200	3500	4000	4500	5100	6100	8100	10000
	Puncture Strength	ASTM D 4833	N	180	220	260	360	420	2500	550	700	850	950	1100	1200	1500	2000	2400
	Dynamic Puncture	EN 918	mm	30	26	22	19	18	14	14	12	9	8	7	5	0	0	0
	Mullen Burst	ASTM D 3786	PSI	130	160	185	290	300	360	400	450	530	630	700	770	900	1100	1300
	Elongation at 30 % Load	EN 29073-3	%	30	30	30	30	30	30	30	30	30	30	35	35	35	35	35
	Flow Rate (10cm Head)	BS 6905 Part 3	1/m2/s	240	200	190	120	100	95	90	85	75	55	50	45	40	35	30
	Permeability	ASTM D 4491	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
	Transmissively (2kN/ms)	ASTM D 4716	l/m/h	100	120	140	160	170	185	190	200	200	220	240	300	340	380	420
	Opening Size (095)	ASTM D 4751	micron	106	106	106	75	75	75	75	75	75	75	75	75	75	75	75
Index	Tensile - 5cm Strip (CD)	EN 29073-3	N	200	280	340	630	700	900	1100	1200	1500	1800	2000	2100	2800	3100	3800
	Tensile - 5cm Strip (MD)	EN 29073-3	N	170	235	280	380	420	520	600	700	820	850	1050	1100	1300	1700	2000
	Minimum Elongation	EN 29073-3	%	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Grab Strength (CD)	ASTM D 4632	N	215	290	340	520	700	900	1100	1180	1500	1750	2000	2100	3000	3200	3500
	Grab Strength (MD)	ASTM D 4632	N	190	250	300	400	470	600	700	800	930	1000	1150	1200	1500	1800	2100
	Min. Grab Elongation	ASTM D 4632	%	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	Trapezoidal Tear (CD)	ASTM D 4533	N	110	140	160	250	340	430	500	530	580	900	900	1000	1200	1500	1800
	Trapezoidal Tear (MD)	ASTM D 4533	N	100	120	140	180	200	250	280	300	350	400	450	500	350	800	1000
Physical	Thickness (2kN/M2)	ASTM D 5199	mm	1.4	16	1.8	2.2	2.5	2.7	3.0	3.2	3.5	3.8	4.2	4.7	5.2	7.0	8.5
	Mass Per Unit Area	ASTM D 5261	g/m2	100	120	140	180	200	250	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 100

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