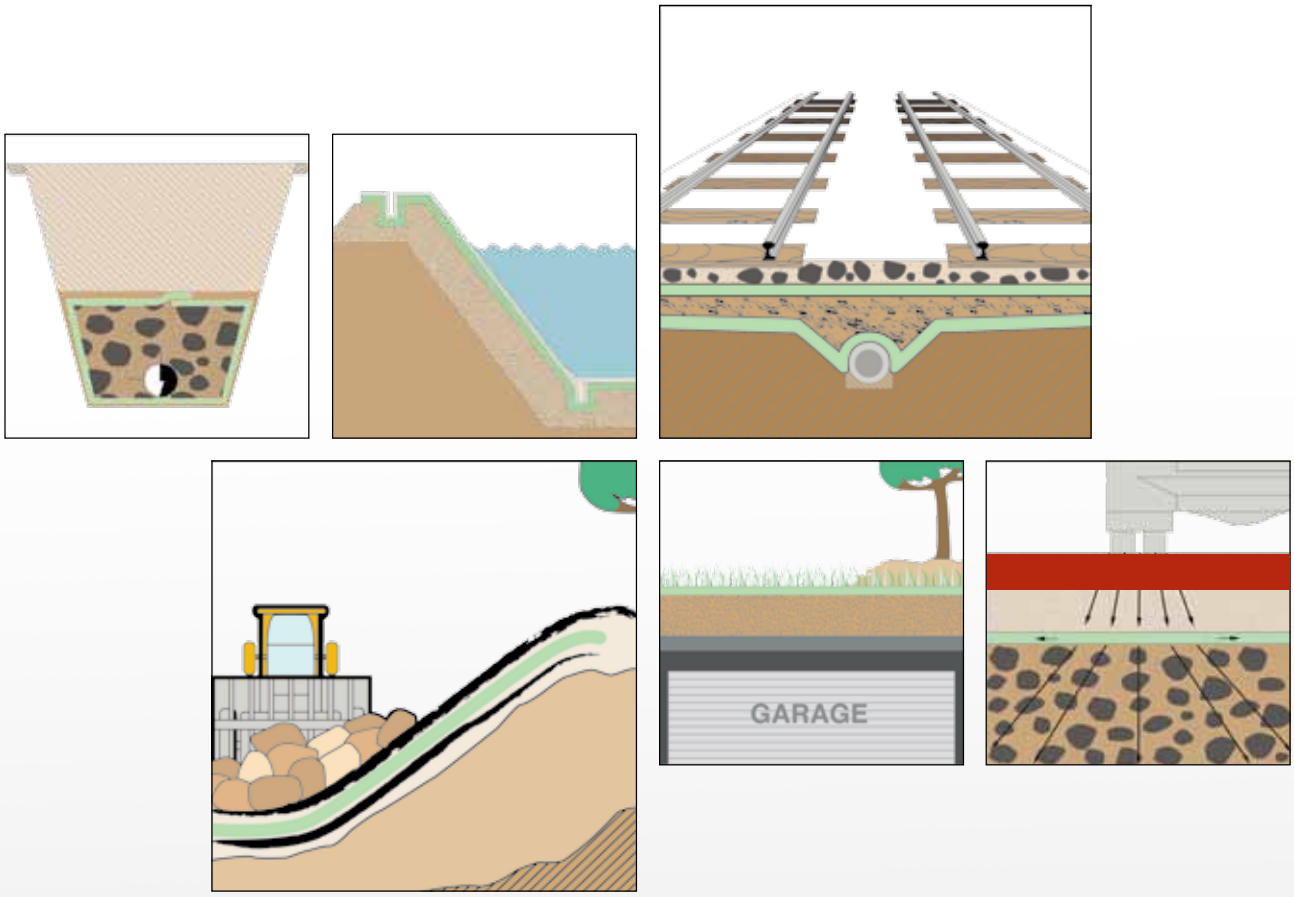
Freudenberg Politex

Building ReEvolution

Drenotex

Geodefence



Geotextiles made of staple polyester fiber, guaranteed by the CE mark, and of spunbond polyester fiber (FC)

- rot-proof
- resistant to mould and rodents
- easy to lay
- resistant to UV rays

Recycled polyester

We build the future by recovering the past

INTRODUCTION

Drenotex has been used for many years in civil and hydraulic engineering and is indispensable for "structuring" the ground to protect against instability and ravelling due to its capacity to redistribute loads, to avoid contamination of layers of various grain sizes and to prevent the erosion caused by water infiltration.

REINFORCEMENT OF ROAD AND RAILWAY BEDS

The critical point is at the base of the embankment where **Drenotex** redistributes mechanical stress and acts as an anti-contaminant.
Drenotex prevents the ground from absorbing the "mix" that makes up the embankment, which would otherwise gradually lose its structure.

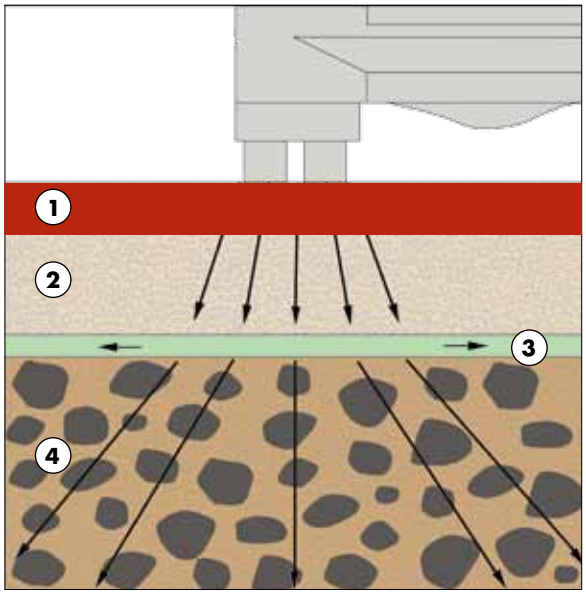


Fig 1.
1. Concrete or bituminous conglomerate
2. Rolled stabilized mix
3. **Drenotex**
4. Sub-base

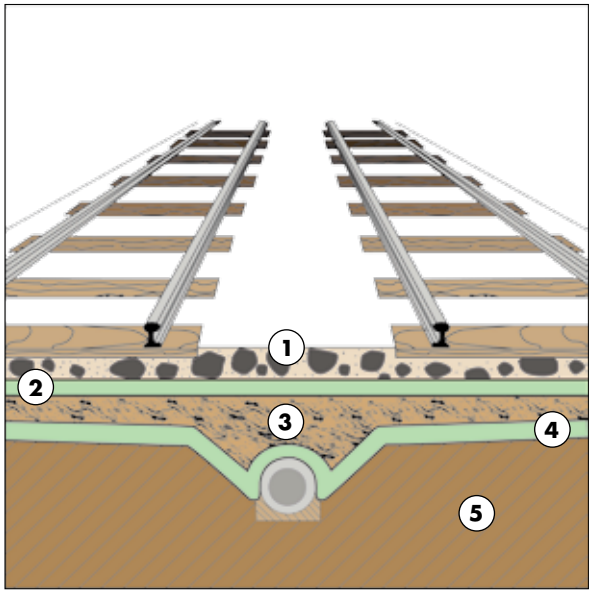
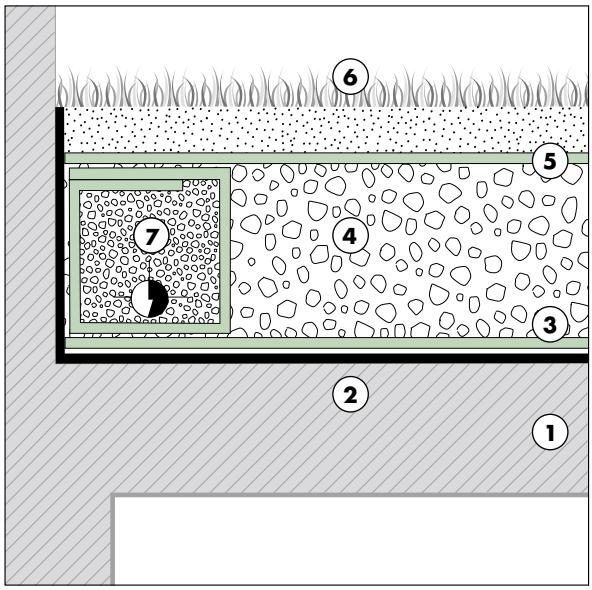


Fig 2.
1. Surface gravel layer
2. **Drenotex**
3. Layer of various grain sizes
4. **Drenotex**
5. Natural ground

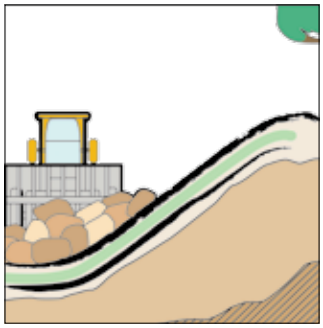
CONSTRUCTION OF UNDERGROUND GARAGES AND ROOF GARDENS

Drenotex offers mechanical protection for waterproof roofs and acts as an anti-contaminant and draining agent to be laid between the gravel layer and the made ground, when the surface is to be used as a garden.



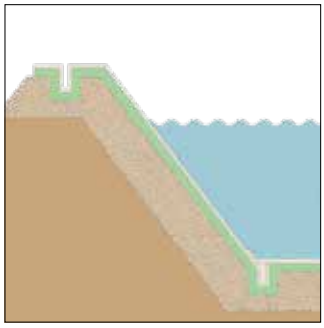
1. Floor slab
2. Waterproofing
3. **Drenotex** with mechanical protection function
4. Draining gravel layer
5. **Drenotex** with anti-contaminating and draining function
6. Ground and grass surface
7. Draining channel

SAFETY OF LANDFILL SITES



Where the excavated area is waterproofed to reduce the risk of contamination. The mechanical function of **Drenotex** protects against the risk of cracks in the waterproofing layer, which would otherwise lead to pollution of the ground by the substances present in the sewage.

REINFORCEMENT OF SLOPES AND HILLSIDES



Excess water in the ground filters through the layers of soil, undermining its compactness. **Drenotex** provides protection, by acting as a filter to prevent the dispersion of loose soil.

LAYING INSTRUCTIONS

Drenotex is extremely easy to lay despite its numerous and diverse applications. Lay the first sheet and proceed with subsequent sheets until the whole area is covered, making sure that the sheets overlap by at least 20-30 cm lengthwise and 50 cm crosswise.

Drenotex FC

TECHNICAL DATASHEET

		Drenotex FC					
		100	**150**	**200**	**250**	**300**	**U. o. M.**
Weight	UNI EN 965	100	150	200	250	300	g/m^2
Density		138					kg/m^3
Composition		Polyester (PET)					
Technology		Needle punched spunbond					
Melting temperature		260					°C
Resistance to UV rays and chemical agents		excellent					
Rot, mould, bacteria and rodent resistance		total					
Humidity regain 20° 65% hum.		0,4					%
Tensile strength at break MD/CD	UNI EN ISO 10319	5	7,5	10	15	18	kN/m
Elongation at break MD/CD	UNI EN ISO 10319	50					%

SUPPLY CHARACTERISTICS

	Drenotex FC					
	100	**150**	**200**	**250**	**300**	**U. o. M.**
Width	300					cm
Length	100					m
Diameter	from 45 to 50					cm
Roll weight	30	45	60	75	90	kg

Recycled polyester

ed. January 2010

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Drenotex

TECHNICAL DATASHEET

		Drenotex CE									
		130	**150**	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**U. o. M.**
Weight	UNI EN 965	130	150	200	300	400	500	600	700	800	g/m^2
Certifications	UNI EN ISO 14001	CE nr. 1488 - CDP - 0019									
Density		138									kg/m^3
Composition		Polyester (PET)									
Technology		Needle punching and thermosetting staple-fiber									
Melting temperature		260									°C
Resistance to UV rays and chemical agents		excellent									
Rot, mould, bacteria and rodent resistance		total									
Permeability	UNI EN ISO 11058	110	100	93	57	37	24	22	20	17	mm/s
Permittivity	CNR B.U. 144	0,70	0,68	0,62	0,45	0,35	0,24	0,20	0,19	0,18	s^{-1}
Porometry	EN ISO 12956	86	85	80	75	70	57	55	50	50	micron
Humidity regain 20° 65% hum.		0,4									%
Tensile strength at break MD/CD	UNI EN ISO 10319	5,5	7	9	14	18	24	28	32	38	kN/m
Elongation at break MD/CD	UNI EN ISO 10319	60									%
CBR puncture test	UNI EN ISO 12236	0,9	1	1,3	2	3	4,4	5	5,8	6,7	kN
Cone drop test	EN 918	33	30	28	12	9,5	8	6,5	4,6	3,5	mm

SUPPLY CHARACTERISTICS

	Drenotex CE									
	130	150	200	300	400	500	600	700	800	**U. o. M.**
Width	up to 600									cm
Length	150		100		70	60	40		30	m
Diameter	from 50 to 70									cm
Roll weight	117	135	120	180	168	180	144	168	144	kg

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Notes

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