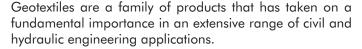
# Let's talk about geotextiles

**Protection for** the Building Industry

# **Protection for** the Building Industry

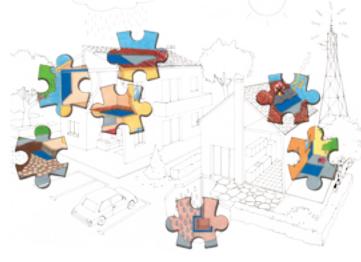


Fibrous materials – such as straw, coconut husks, fascines, and others - have been used in engineering works since ancient times. With the advent of synthetic fibres there was a great development of applications. Thanks to properties of inalterability and resistance to moulds, mildew, bacteria, and rodents, possibility of optimizing their basic technical parameters, notable resistance to UVA and UVB radiation, ease of installation, and also low cost, geotextiles offer innumerable solutions to problems in civil and hydraulic engineering. Today the most commonly used geotextiles are nonwovens (spunbond or staple-fibre) manufactured with different polymers: polyester, polyamide, polypropylene, or polyethylene.

Freudenberg Politex offers a broad range of polyester geotextiles, available in different weights, to satisfy every requirement in the different fields of application. Drenotex is CE certified.

### **Applications:**

- Road, highway, bridge, and railway construction;
- River and seashore banks;
- Separation layers of differing granulometries;
- Landfill construction;
- Sports fields and equestrian centres;
- Drainage systems;
- Protection for waterproofing membranes;
- Installation of self-locking surfacing;
- Hardstands, paths, bicycle paths, paving stones;
- Gardens and rooftop gardens;
- Hydraulic works;
- Sunken pools.



Acoustic and Thermal Insulation



PhonoPAR

Floor underlayment



External walls and liquid waterproofing

Reflective underslating



Waterproofing



Breathable underslating





## Geotextile

Polyester nonwovens used for drainage, filtration, load distribution, mechanical protection and anticontamination.







The Freudenberg Politex Group Italy, France, Poland, U.S.A., Russia bm@politex.it - www.freudenbergpolitex.com

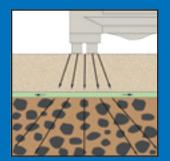


**Freudenberg Politex** 











Cone drop test (EN 918)

Permittivity (CNR B.U. 144)

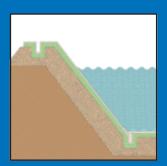
**Dimensions - length** 

**Dimensions - height** 

Opening size (EN ISO 12956)

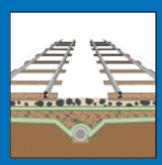
Normal permeability (EN ISO 11058)

#### **Filtration**



Coastline defence

#### **Anti-contamination**



Railway beds

33

110

0,70

86

150

mm

mm/s

micron

m

30

100

0,68

85

150

28

93

0,62

80

100

12

0,45

75

100

9,5

37

0,35

70

70

up to 6

8,0

24

0,24

57

60

6,5

22

0,20

40

4,6

20

0,19

50

40

3,5

17

0,18

50

30

#### Drainage



**Drainage channels** 

#### **Mechanical protection**



Landfill construction

Protection for waterproofing anti-contamination



Rooftop gardens

N/A

N/A

N/A

N/A

100

3



| 0 |
|---|
| 3 |
| 0 |
|   |
| 8 |