

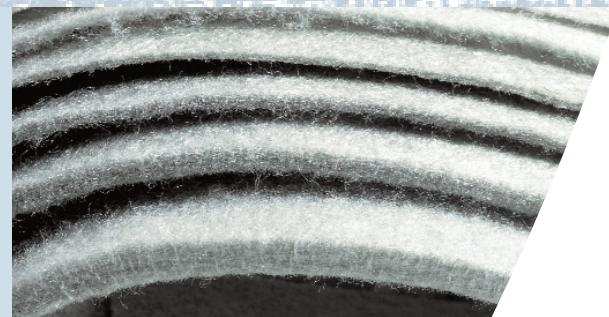
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Common Arrangement R12

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## Nonwoven Polypropylene Geotextile



**Geosynthetics**

# Fibertex™

Nonwoven Polypropylene Geotextile



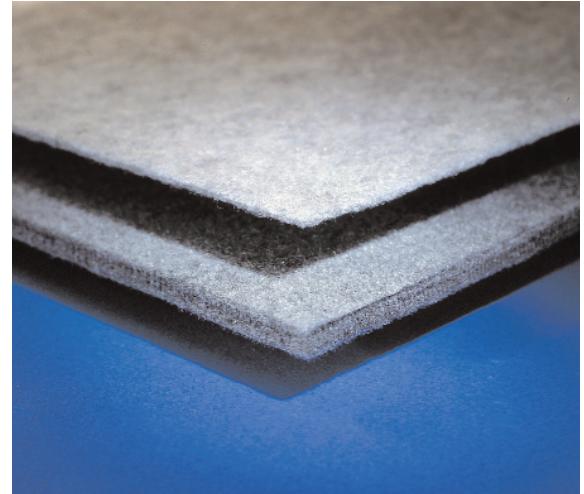
**Manufactured from polypropylene staple fibres, Fibertex geotextiles are resistant to all naturally occurring soil alkalis and acids and fungal attack. As well as this Fibertex geotextiles are UV stabilised and will not rot.**

Using the latest heat bonding processes and intensive needling ensures that the fibres are fixed vertically resulting in an incredibly strong 3-dimensional geotextile. No hazardous chemicals are used during production and when incinerated forms carbon dioxide and water – both completely harmless.

Within the range there are two distinct styles of geotextile: pure needle punched and needle punched with thermal bonding.

**Fibertex is a range of high performance nonwoven geotextiles specified by civil engineers for a wide variety of applications:**

- Separation
- Protection
- Filtration
- Drainage
- Reinforcement
- Stress relieving



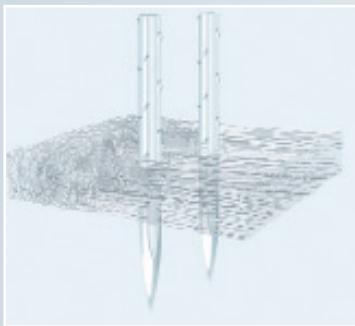
Needle punched nonwoven fabrics are characterised by high porosity, elongation and energy absorption properties which makes them ideal for a wide range of applications including subsurface drainage, filtration, separation, and protection of liners.

Thermal bonding treatment imparts additional strength to the fabric which is particularly beneficial to ground reinforcement and separation applications.

**Reliable and easy to use, Fibertex provides you with these superior properties:**

- Uniformity
- High strength and elongation
- Superior wearing and abrasion resistant properties
- Unique hydraulic capability
- No delamination

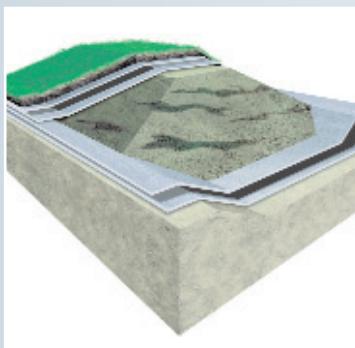
# Product features



Needle punch



Separation



Protection

## The advantages of Fibertex

Using Fibertex between different construction layers avoids the mixing of these layers giving increased bearing capacity as well as significant savings on time and materials.

What's more the high water flow and excellent filter properties combined with its exceptional mechanical properties, ensures that fine grained particles are retained at the same time as allowing the free movement of water. In this way stability is improved and the life of the construction is considerably prolonged.

## Use Fibertex for impressive results on the following applications:

### Separation

Strong and flexible, Fibertex prevents the sub-base mixing with the sub-grade maintaining the integrity of the construction. This increases the load-bearing capability and provides long term stability of the foundation layers.

### Protection

The excellent puncture resistance and thickness of Fibertex geotextiles makes them ideal for protecting impermeable membranes. Fibertex protection geotextiles are laid below and/or above the membrane, forming a protective layer and preventing puncture of the liner.

**Geosynthetics Ltd** is a leading dis-

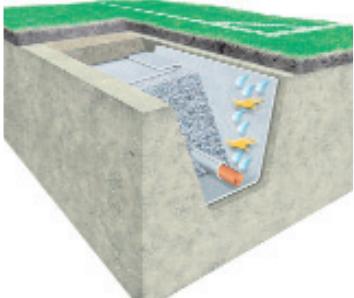
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product  
range

Large  
stock  
holding

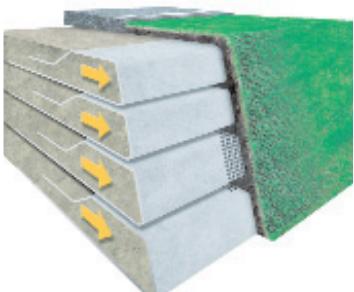
Next day  
delivery



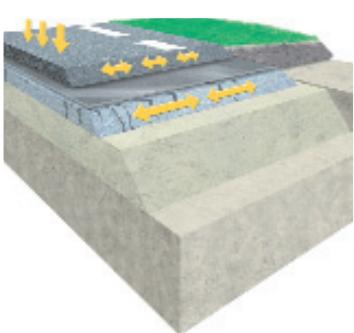
Filtration



Drainage



Reinforcement



Stress relieving

### Filtration

The pore structure of Fibertex geotextiles is designed to retain particles whilst allowing the free movement of water making it possible to separate two layers during intense hydraulic activity. This avoids the migration of layers, which could reduce load bearing capacity, and maintains water flow with minimum loss of pressure.

### Drainage

Fibertex enables excess water to be drained away from the construction – not by passing through the fabric but by flowing in the plane of the fabric away from the construction. This ensures reliable ongoing drainage of fluids with minimum loss of pressure.

### Reinforcement

The mechanical properties of Fibertex and Fibertex HS, make them ideal for reinforcing slopes and other soil structures. Reinforcing with the appropriate Fibertex product prevents vertical soil walls and steep slopes from collapsing, increasing the lifespan of these types of construction.

### Stress Relieving

Fibertex offers a flexible, precompressed, nonwoven solution designed especially for stress relieving. Paving fabric is ideal for both new road construction and road maintenance as it absorbs differential movements in the road layers, preventing reflective cracking. The bitumen saturated paving fabric also forms a waterproof interlayer, protecting the subsoil from water intrusion and thereby avoiding the loss of bearing capacity.

## Distributor of geosynthetic materials in the UK

Design  
service

Onsite  
support

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online at  
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# Quality assurance and service

## Certified quality

Fibertex geotextiles are manufactured under a quality management system which is certified in accordance with the most comprehensive standards set by the International Organisation for Standardisation; namely ISO 9001.

This has been implemented throughout the business to give customers greater reliability and improved quality.

Fibertex were also among the first in the nonwoven industry to obtain the ISO 14001 environmental management system certificate demonstrates their ongoing commitment to the environment.



## Accreditation

Fibertex geotextiles are CE marked in accordance with The Construction Products Directive (CPD 89/106/EEC). CE marking demonstrates conformity to The Construction Products Directive (CPD 89/106/EEC) and indicates the stringent testing and certification of Factory Production Control (FPC) that Fibertex geotextiles have gone through to meet the highest European standards.

## Our Service Commitment

We're committed to offering you the most comprehensive range of Geosynthetic products from stock with next day delivery as standard. We're also constantly seeking to improve our service levels to you and proud of our record so far.

Call 01455 617 139 for expert technical advice from our fully trained staff.

**Geosynthetics Ltd is committed to offering the best solutions for soil stabilisation, erosion control, drainage and environmental protection problems.**

Well trained staff are always available to discuss which materials are best suited to any particular application.

## Fibertex Geotextiles

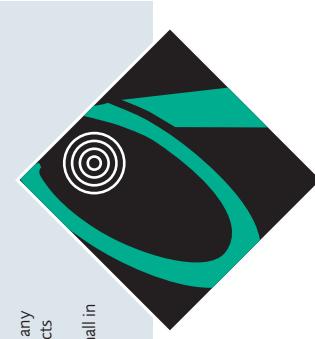
### Needle punched/thermally bonded products

	F-10	F-20	F-22	F-32	F-35	F-40	F-500	F-32M	F-4M	F-400M	F-45M	F-600M	F-650M	F-800M	F-1000M	F-1200M	
<b>Physical properties</b>	Test standard	Units															
Weight	EN ISO 9864	g/m <sup>2</sup>	85	100	120	175	225	255	370	190	320	400	500	600	650	800	1000
Thickness at 2kPa	EN ISO 9863-1	mm	0.6	0.6	0.7	0.9	1.1	1.4	2.2	2.5	3.2	4	3.2	5	5	6	7
<b>Mechanical properties</b>																	
Static puncture (CBR-test)	EN ISO 12236	N	1000	1100	1500	2250	2750	3250	4000	1750	3150	4300	5200	6000	6000	8000	10000
Elongation	EN ISO 12236	%	50	50	50	50	50	50	50	60	60	60	65	65	65	65	75
Tensile strength (length)	EN ISO 10319	kN/m	6	7	8	13	17	18	25	10	17.5	23	26	32	32	30	34
Tensile strength (width)	EN ISO 10319	kN/m	6	7	8	13	17	18	25	11	19	25	36	40	40	60	75
Elongation at break	EN ISO 10319	%	40/58	40/55	40/55	40/50	43/55	50/55	50/50	65/80	65/70	70/65	67/60	90/65	90/65	100/60	110/60
Dynamic cone drop	EN 918	mm	>50	35	35	28	22	20	15	20	16	11	9	6	6	0	0
<b>Hydraulic properties</b>																	
Permeability	EN ISO 11058	m/sec	0.1	0.07	0.07	0.04	0.03	0.04	0.04	0.085	0.06	0.06	0.04	0.03	0.03	0.03	0.025
Permittivity	EN ISO 11058	sec <sup>-1</sup>	2	1.4	1.4	1	0.6	0.8	0.8	2.4	1.2	1.3	0.8	0.6	0.6	0.5	0.3
Water flow	EN ISO 11058	l/sec/m <sup>2</sup>	100	70	70	50	30	40	40	120	60	65	45	30	30	25	15
Transmissivity	EN ISO 12958	10 m <sup>2</sup> /sec	0.1	0.3	0.6	0.8	0.7	1	2.5	2.9	5.6	5.3	4.3	5.7	5.7	15	20
Water flow capacity at 20 kPa	EN ISO 12958	l/hour/m	0.5	1	2	3	3	4	1	1	2	2	1.5	2	2	5	7
Pore size Ø	EN ISO 12956	micron	100	95	100	85	70	70	70	100	80	80	70	70	70	70	60

### Roll sizes

Width	m	4.5	4.5	4.5	5	5	5	5	5	5	5	5	5	5.5	5.5	5.5
Length	m	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50
Roll weight	kg	40	46	55	88	113	128	195	100	165	210	255	310	370	240	265

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