



Sports Pitch Drainage

A guide to the selection and specification of ABG Turfdrain sports pitch drainage system.



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Turfdrain

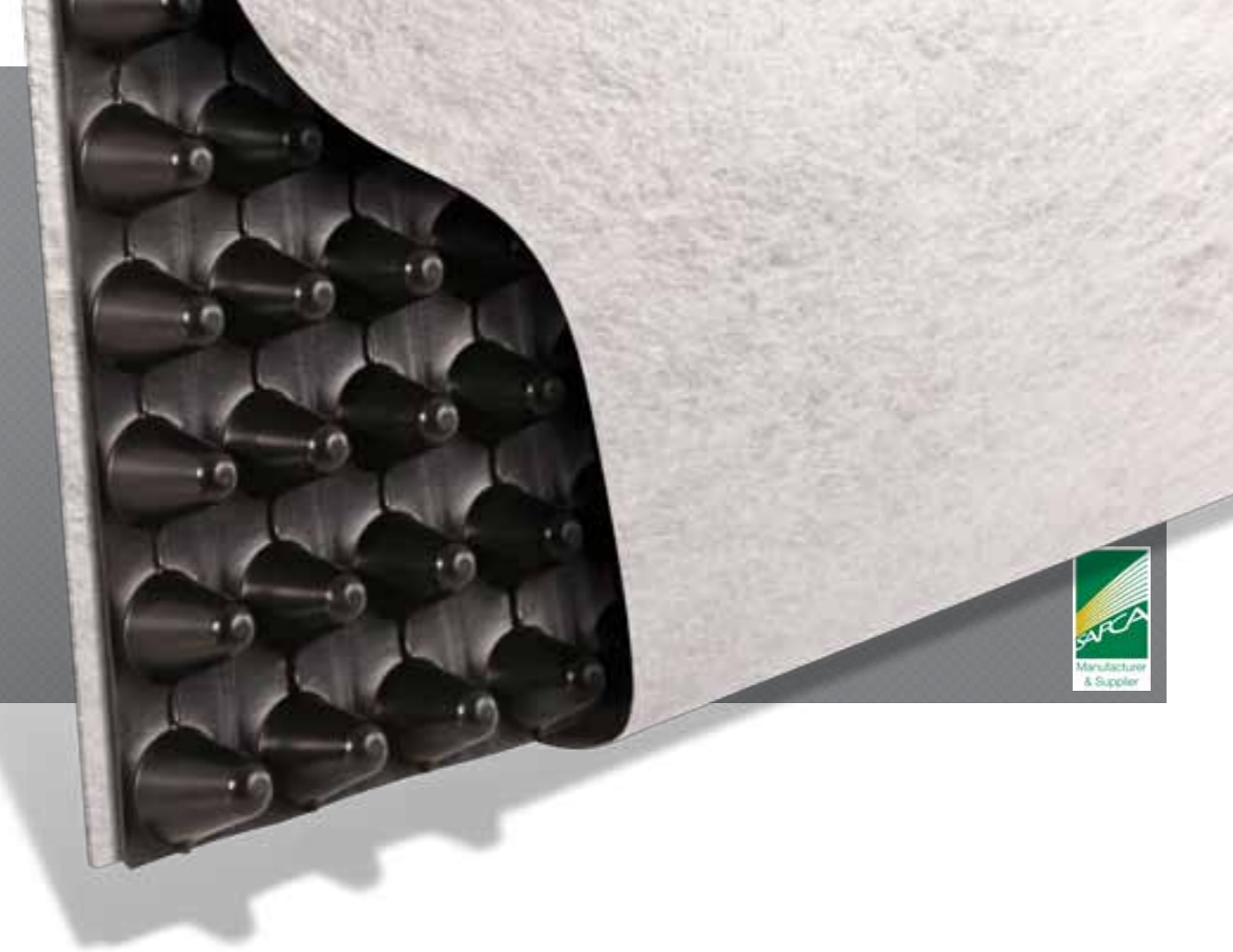
Turfdrain is a high performance drainage system with an outer surface that is totally permeable allowing water to rapidly drain from the playing surface and into the drainage system. The outer textile wrap ensure that fines cannot enter the core and prevents the system from clogging.

It consists a dimple plastic core completely wrapped within a filter fabric and is specifically designed to replace traditional methods used for creating drainage channels which utilise perforated pipe

and filter stone.

Turfdrain is just 25mm wide and can easily be installed in trench just 10mm wider. This results in less disturbance of the playing surface than encountered with laying pipes and gravel and also less materials to remove from the facility. The slit trenches are backfilled with sharp sand and provide long-term drainage performance. This narrow trench installation technique also means that the playing surface can be put back into use immediately after installation.

Turfdrain is suitable for use in all existing grass surfaces including playing fields and amenity areas, football, rugby and cricket pitches, lawns and golf course fairways.



Playing Surface

Installation of drainage strips within narrow trenches means minimum disruption to playing surface allowing immediate reinstatement.

Fildrain

Fildrain collector system collects and transports water away from drainage strips.

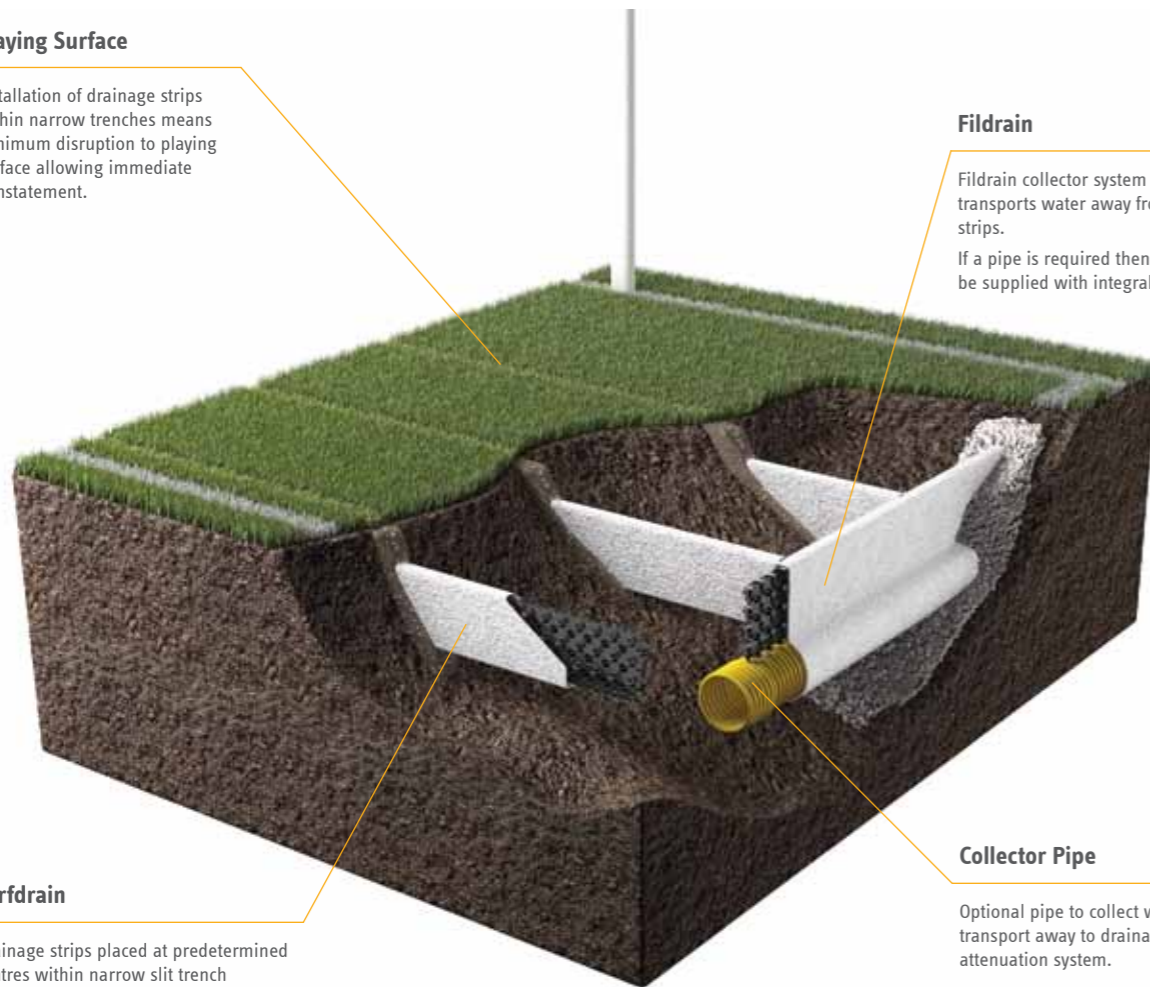
If a pipe is required then Fildrain can be supplied with integral sock.

Collector Pipe

Optional pipe to collect water and transport away to drainage or attenuation system.

Turfdrain

Drainage strips placed at predetermined centres within narrow slit trench backfilled with sharp sand



Benefits

- Turfdrain is compact, lightweight and can be carried by hand allowing access to inaccessible areas and minimising vehicle movements on the playing surface.
- Using Turfdrain greatly reduces material movements both to and from site.
- Playing surfaces can be put back into action almost as soon as installation is complete.
- Turfdrain is quick and simple to install.
- Using Turfdrain gives factory constant performance.
- High crush strength means Turfdrain can be installed in shallow trenches resulting in less disruption and less material to remove from site.
- Turfdrain requires little or no gradient to perform effectively.
- Offers a cost effective solution to the efficient drainage of sports pitches and other amenity areas.

Performance

Material	Perforated Single Cuspate (HDPE)	
• Core		
• Filter textile	Needle-punched Non-woven Polypropylene (PP)	
Pore size	µm	110
Breakthrough head	mm	0
Permeability (@50mm head)	l/m ² ·s	90
Core transmissivity	l/m·s	12
Crush strength	kPa	240

Data contained in this table is indicative only and should not be used for final design. Please contact ABG on 01484 852096 or by email on technical@abgltd.com to discuss your project specific requirements.

About ABG

ABG is a market leader in the design, development, manufacture and technical support of high performance geosynthetic systems for use in a wide range civil engineering, environmental and building projects.

Formed in 1988 and based in Meltham, in the heart of the West Yorkshire Pennines, ABG have developed a reputation for developing quality products and delivering outstanding customer service. The ability for rapid product development ensures that the most innovative, up to date and cost effective solution can be found for many engineering problems.

Technical support on ABG systems is provided by the highly trained technical department, many of whom are Chartered Civil Engineers. The support extends to full design services, design validation, feasibility studies, cost advice and advice on meeting regulatory requirements.

Part of this support includes developing and driving knowledge within our active markets. This includes working with both local and international regulatory bodies on developing guidance and best practices on the use of innovative geosynthetics to solve complex engineering issues.

Contact ABG today to discover how ABG can help deliver a sustainable and cost effective solution to your engineering requirement.

Other ABG Products

A complete range of geosynthetics for use in the development of sports facilities

Pozidrain

Wide width drainage sheet developed for the formation of a high performance capillary break/drainage layer within formation build up.

Abtex

A range of woven geotextiles offering lightweight fabrics for basic separation functions through to high strength products offering cost effective reinforcement of sub base layers.

Abgrid

High performance geogrid for reinforcement of sub base layers and ground stabilisation applications allowing a more stable playing surface

Terrex

A range of needle punched geotextiles designed specifically to offer optimum performance per unit weight in basic separation and filtration applications.

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