



A Green Revolution in Land Drainage

Aquadyne® offers unique
and spectacular benefits
over traditional drainage
methods

Aquadyne® is a product by

AITKENS
THE GROWING COMPANY



What is it?

An environmental, highly efficient drainage system for use in the Sportsturf environment.

Aquadyne® is a drainage panel made from 100% post use recycled plastics.

The macro-porous / micro-porous noodles used in manufacturing allows water to drain very quickly but vitally retain essential water reserves. A key feature of the design is the micro-pore structure does not allow infiltration of fines therefore preventing it from clogging.



Aquadyne® counters the problems of conventional drainage:

- Trench settlement (Drop)
- Construction compaction
- Pipe Infiltration (Clogging)
- Migration of fines and gravel
- Drying out in summer

Benefits of using Aquadyne®

ECONOMICAL – A saving can be made of up to 25% when compared to conventional pipe systems.

INCREASED PERFORMANCE – The flow rate of water through each panel is up to 10 times that of sand and can increase drainage by 20% compared to gravel.

NO CLOGGING – The micro-pore Aquadyne® panel has a 50% open pore structure compared to perforated drainage pipes which only have 5%.

NO DRAINAGE LINES – Aquadyne® enables water to be retained by micro-pore structure with capillary qualities, therefore drainage lines do not dry out under normal summer conditions.

TEXTILE FREE – No need to use geotextiles or filter fleeces, Aquadyne® performs this task itself.

FAST INSTALLATION – Due to a narrower and shallower trench than traditional systems, up to 1000m can be laid in a single day leading to minimal disruption of play.

STRONG – Aquadyne® is very strong and can withstand over 1000 tonnes compression stress (per m²) while still draining with no loss of performance.

ENVIRONMENTALLY FRIENDLY – For every 200mtr of Aquadyne® manufactured, up to 2 tonne of CO₂ emissions are saved.

REDUCED SETTLEMENT – The solid nature of the Aquadyne® panel means reduced drop and top up of trenches compared to traditional drainage systems.

REDUCED DAMAGE – 40% less material transported to site and 50% reduced excavation leads to reduced traffic and less damage during installation over sand gravel and pipe installations.

Where to use

Aquadyne® can be used in a wide number of situations:-

GOLF

Golf bunkers	Fairway drainage
Greens drainage	Golf greens
Path edging	Tees
Ring drain around greens	

SPORTS PITCHES & OTHER USES

Football	Rugby
Race courses	Schools & college
Ring drains	Cricket outfields
Path edging to stop aggregate washout	

How to use

Aquadyne® can travel water in any direction and the panels can be joined together by simply “butting” them up to each other or overlapping them making installations very simple and the material very forgiving to work with. It can be cut, screwed or nailed together just like wood.

It will not migrate into whatever it is surrounded by unlike sand or gravel. When using Aquadyne® in any application there is no need to use geotextile or filter fleeces, the Aquadyne® performs this task itself.

Drainage examples:-

Golf Bunker

Cut a shallow trench 50mm in the base of bunker subsoil. Place the Aquadyne® horizontally in the trench using a herringbone design and direct the system to the lowest point of the bunker. Here more Aquadyne® or traditional drainage main drain can take the water away. Alternatively, a two-layer system can be used by double stacking the Aquadyne® in a 100mm trench. You can make your own Aquadyne® box section to connect to an outlet pipe if required.



Sportsfield & Fairway Drainage

Aquadyne® is effective at between 2m to 5m spacing depending on soil type. Cut a single width 50mm trench in a herringbone pattern to intersect main drainage or travel to an outfall area.

Or

Cut a double width 100mm main trench with single width 50mm lateral herringbones. Backfill with a good quality rootzone or sand. Maximum 100mm backfill cover above the Aquadyne®.



Ring Drain / Surface Water Cut Off

Use Aquadyne® to eradicate surface water running on to greens.

Cut a single vertical (50mm) or double vertical (100mm) trench along the edge of the green. Place Aquadyne® into the trench vertically. Allow a maximum of 100mm cover above the Aquadyne® using a good rootzone or sand.

Outfall – Take off at the lowest point to an outfall area of rough, or cut into existing main drainage.

Path Edging

Cut a narrow trench 200mm deep and slot in the Aquadyne® vertically so 20mm is left proud of the surface. This will allow water to enter the panels quickly and avoid water running onto paths and washing away the surface.

Aquadyne® Specification:-

Aquadyne® panels are 1m x 230mm x 45mm
Dry weight approx. 6kg per panel.

We supply in two sizes:-


½ Pallet – 76 x Aquadyne® panels
Full Pallet – 152 x Aquadyne® panels

Aquadyne® is available from:

Richard Aitken (Seedsman) Ltd
20 Robert Drive
Glasgow
G51 3HE
Tel: 0141 440 0033

Aitkens Sportsturf Ltd
Aviation Road
Sherburn In Elmet
North Yorkshire
LS25 6NB
Tel: 01977 681155

www.aitkens.co.uk

 @Aquadyne_drains

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