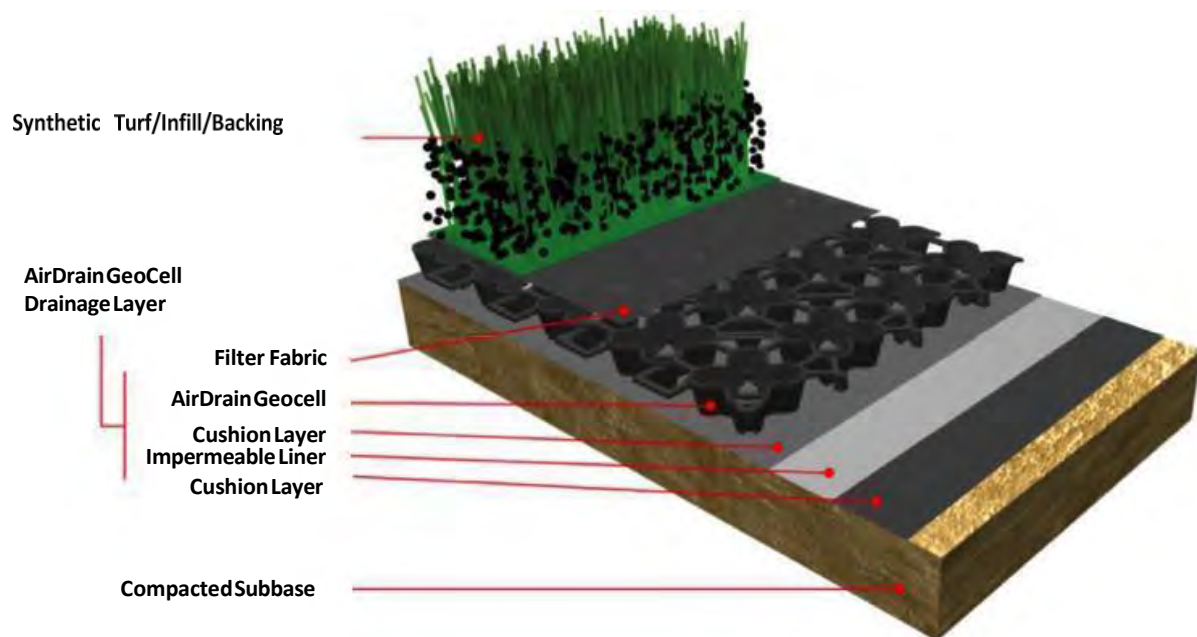


AirDrain – What drains better than Air?

For Synthetic Turf/Artificial Grass

The consistent Shock Attenuation properties of the **AirDrain** system are major contributors to the safety of players and the reduction of concussions. Unlike traditional shock pads or e-layers, **AirDrain** is 1" high, has 92% air void and 100% vertical drainage. **AirDrain's** performance cannot be matched by any other product in the industry.



AirDrain reduces Shock Attenuation / GMAX by Approximately:

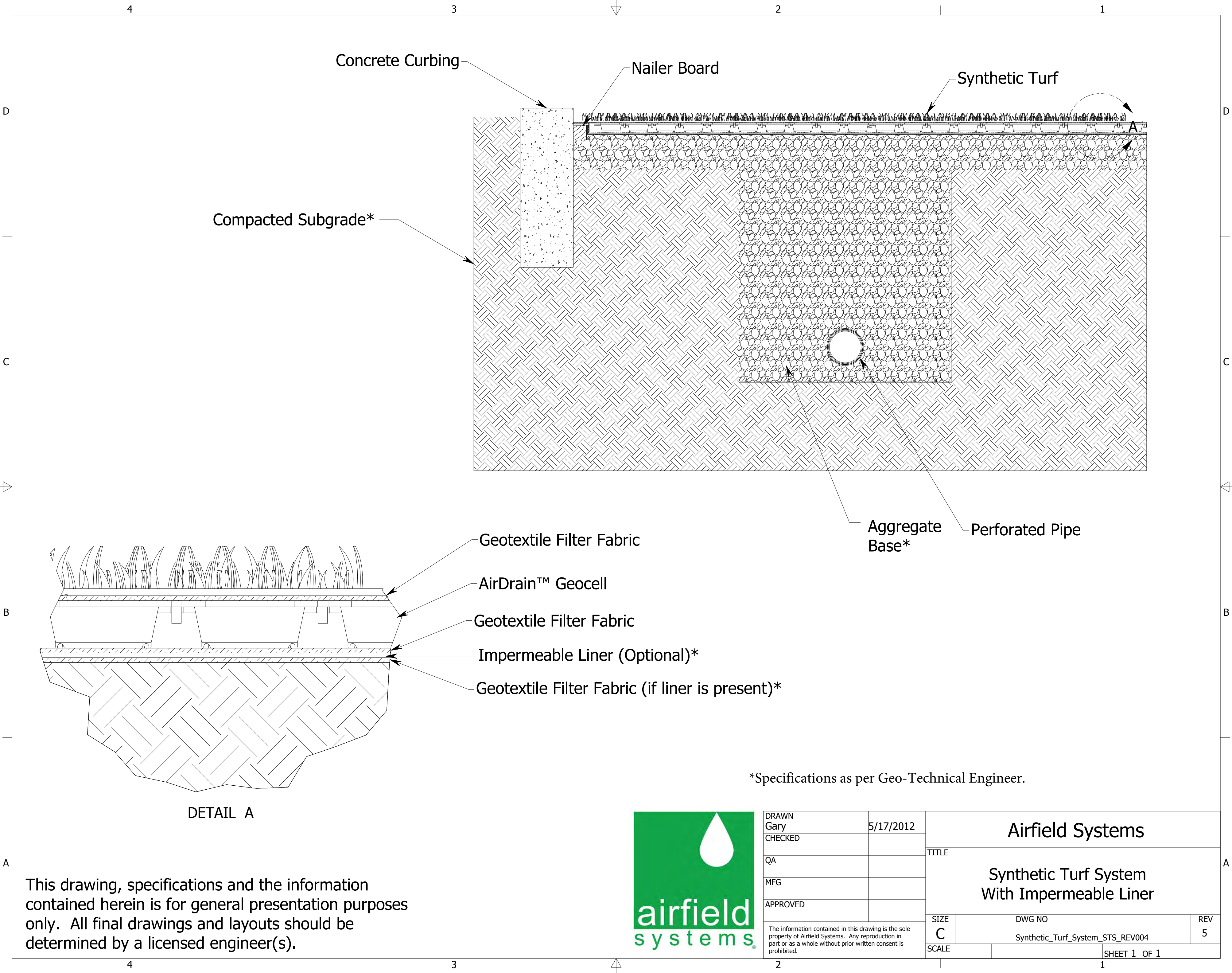
(per Architect/Engineer)

- 18.9% on a gravel subbase
- 14.7% on a concrete subbase

Some of the Benefits of an AirField Synthetic Turf Drainage System include:

- AirDrain creates and helps maintain a constant and consistent Shock Attenuation for Synthetic Turf
- ASTM testing proves AirDrain's shock absorption properties reduces **Shock Attenuation**
- Only needs a **.25% slope** for effective drainage
- Patented expansion and contraction built into every part which keeps the grid from buckling
- AirDrain is only limited by the drainage capacities of the profile above and the exit drains below
- AirDrain can be reused multiple times when the synthetic turf must be replaced

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Concrete Curbing

Nailer Board

Synthetic Turf

Compacted Subgrade*

Geotextile Filter Fabric

AirDrain™ Geocell

Geotextile Filter Fabric

Impermeable Liner (Optional)*

Geotextile Filter Fabric (if liner is present)*

Aggregate Base*

Perforated Pipe

DETAIL A

*Specifications as per Geo-Technical Engineer.

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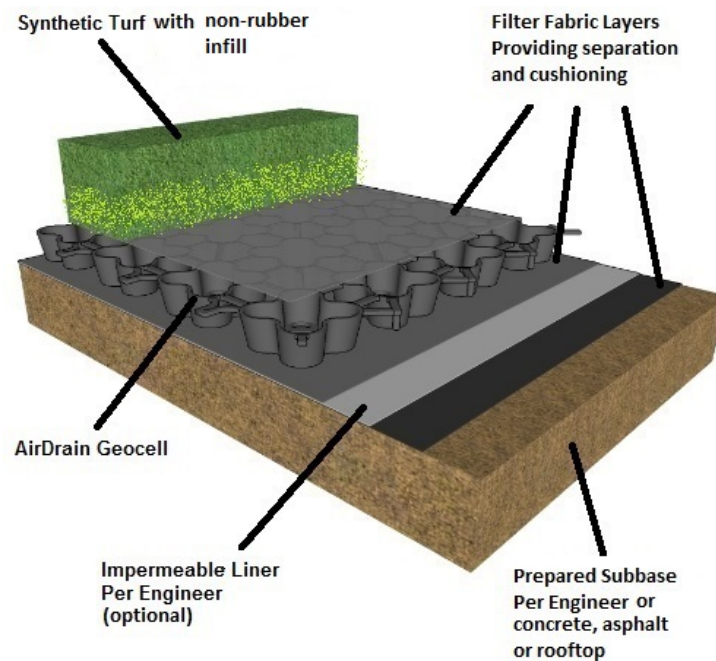
DRAWN Gary	5/17/2012	Airfield Systems			
CHECKED		TITLE Synthetic Turf System With Impermeable Liner			
QA					
MFG					
APPROVED					
The information contained in this drawing is the sole property of Airfield Systems. Any reproduction in part or as a whole without prior written consent is prohibited.		SIZE C		DWG NO Synthetic_Turf_System_STS_REV004	REV 5
		SCALE			SHEET 1 OF 1

AirDrain – What drains better than Air?

For Rubber-Free Synthetic Turf Solutions Using Non-Rubber Infill

The consistent Shock Attenuation properties of the **AirDrain** system are major contributors to the safety of players and the reduction of concussions. Unlike traditional shock pads or e-layers, **AirDrain** is 1" high, has 92% air void and 100% vertical drainage. **AirDrain's** performance cannot be matched by any other product in the industry. The **AirDrain** system works on any type of prepared subbase (Compacted Aggregate, Concrete or Asphalt) or rooftop.

A **Rubber-Free Synthetic Turf Solutions** provided for Multi-Purpose Fields, Play Areas and general-purpose use reduces maintenance, upkeep and cleaning the surrounding area of rubber pieces that tend to find their way off the field.

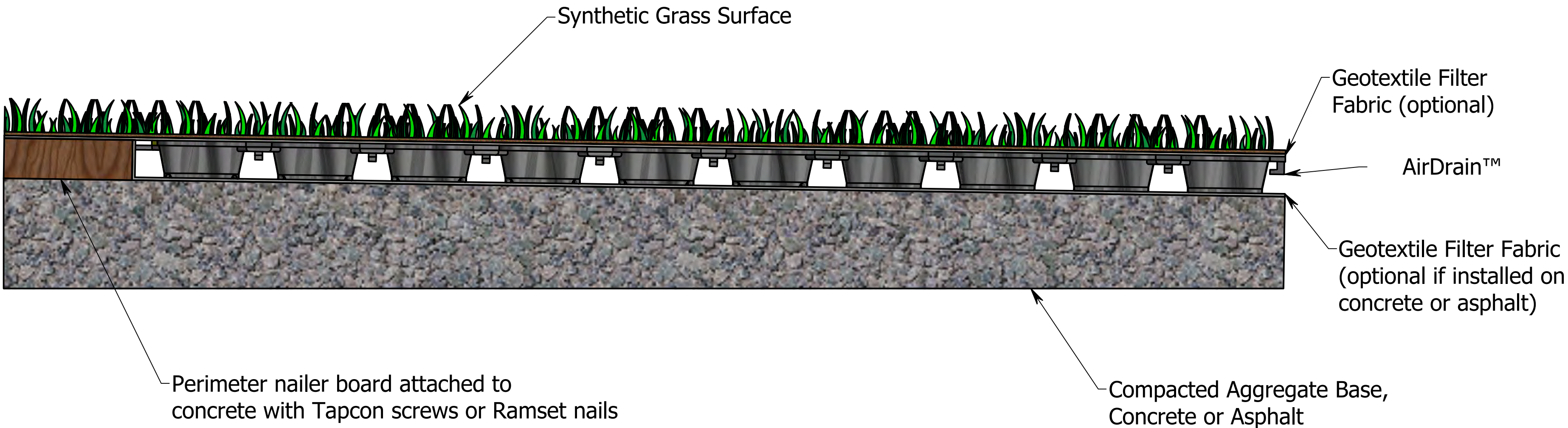


Some of the Benefits of an AirField Synthetic Turf Drainage System include:

- AirDrain creates and helps maintain a constant Shock Attenuation for Synthetic Turf
- ASTM testing proves AirDrain's shock absorption properties reduces Shock Attenuation
- AirDrain creates a 1" air void allowing for 100% vertical drainage over the whole installation
- Patented expansion and contraction built into every part which keeps the grid from buckling
- AirDrain is only limited by the drainage capacities of the profile above and the exit drains below
- AirDrain can be reused multiple times when the synthetic turf must be replaced

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Synthetic Turf Detail



AirDrain™ Unit Panel Specifications:

- Size: 32" x 32" x 1"
Weight: 3.1 lb
Strength: 233 psi (unfilled)
- Resin: 100% Recycled (PIR)
Copolymer with Impact Modifier
"No Break" Polymer Material
- Color: Black
(3% carbon black added for UV Protection)

Airfield Systems
8028 N. May Ave., Suite 201
Oklahoma City, OK 73120
(405) 359-3775
www.airfieldsystems.com

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DRAWN Gary	1/13/2013	Airfield Systems		
CHECKED		TITLE Synthetic Turf Edge Detail on Compacted Aggregate Base		
QA				
MFG				
APPROVED				
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		SCALE	SHEET 1 OF 1	

AirDrain

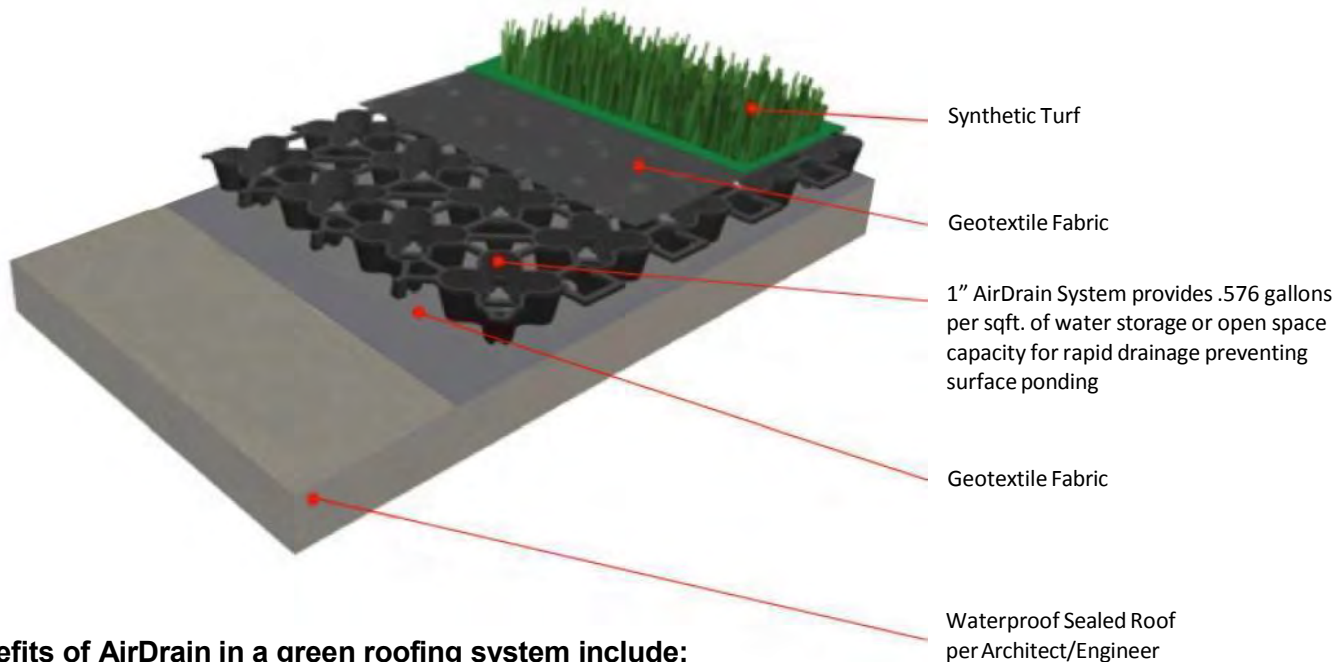
– What drains better than Air?

Green Roofing - Synthetic Turf

With limited space on campus, both high schools and colleges are turning to rooftop sports surfaces to create multi-use green areas. Building a rooftop sports field with an AirField System provides drainage under 100% of the playing surface, prevents ponding, and moves water efficiently for reuse elsewhere on campus.

Over 3,000,000 square feet and counting of AirDrain rooftop drainage system has been installed.

LACC “[LA Community College](#)” 95,000 sqft., MSOE “[Milwaukee School of Engineering](#)” 100,000 sqft., UCSD “[University of California in San Diego](#)” 80,000 sqft., WPI “[Worcester Polytechnics Institute](#)” 174,000 sqft. and [Binghamton High School](#) 47,000 sqft.



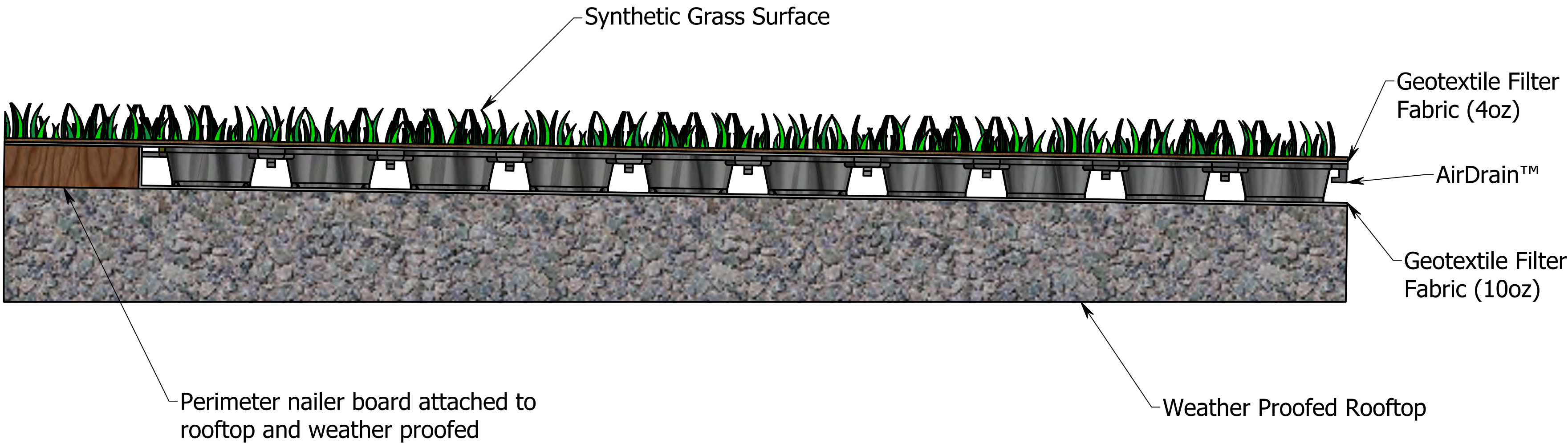
Benefits of AirDrain in a green roofing system include:

- AirDrain creates and helps maintain a more consistent Gmax for Synthetic Turf
- ASTM testing proves AirDrain's shock absorption properties reduces Gmax
- AirDrain can be reused when the Synthetic Turf must be replaced
- Can help qualify for **LEED™** and other green building credits
- Pallets can be taken up to the roof in an elevator (32"x32"x48" and 392lbs.)
- Water harvesting reclamation and reuse is easy
- AirDrain creates a 1" air barrier on the rooftop which increases the insulating properties.
- AirDrain is a 100% recycled copolymer which has the impact modifier “metallocene” added to it for qualification as a “No Break” plastic, making it able to withstand extreme heat and cold and still maintain performance

Now Available "AirDrain FR" passed the ASTM E108-17 Standard Test Methods for Fire Tests of Roof Coverings, Class A Spread of Flame Testing with ZERO SPREAD of FLAME!!!

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Synthetic Turf Rooftop



**Now Available "AirDrain FR" E-108 Class A Rated
ZERO SPREAD of FLAME**

AirDrain™ Unit Panel Specifications:

- Size: 32" x 32" x 1"
- Weight: 3.1 lb
- Strength: 233 psi (unfilled)
6747 psi (filled)
- Resin: 100% Recycled (PIR)
Copolymer with Impact Modifier
"No Break" Polymer Material
- Color: Black
(3% carbon black added for UV Protection)

Airfield Systems
8028 N. May Ave., Suite 201
Oklahoma City, OK 73120
(405) 359-3775
www.airfieldsystems.com

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DRAWN Gary	1/13/2013	AirField Systems			
CHECKED		TITLE Synthetic turf Edge Detail on Roof Top			
QA					
MFG					
APPROVED					
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		SCALE		SHEET 1 OF 1	

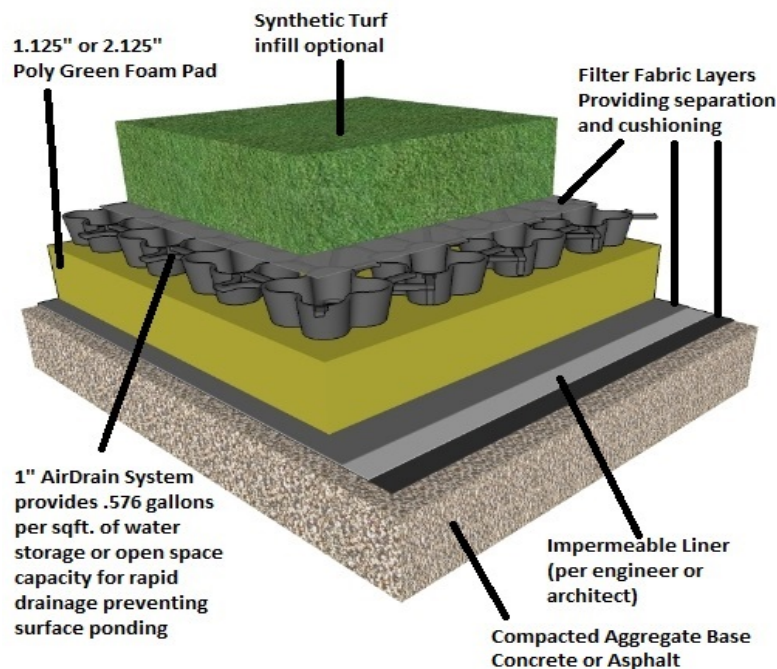
AirDrain – What drains better than Air?

Playground Drainage for Synthetic Turf/Artificial Grass

Not all drainage is created equal! AirDrain offers 100% vertical drainage and has 92% air void. This combination effectively collects and redirects water easily. Additionally, AirDrain raises the entire profile a full 1", letting gravity drain the entire playground quickly and efficiently. The combined effect of AirDrain is a more stable surface area, reduced expenses for repairs and more play time.

A drainage system should allow for water to quickly drain away from the surface and be directed to exit drains, thus allowing a shorter turnaround time for the continuation of play. AirDrain provides drainage which is unmatched in the industry – up to 40gpm/sf – allowing the surface to be free of water. AirDrain is only limited by the drainage capacity of the profile above and the capacity of the exit drains.

For playgrounds constructed with AirDrain the grid is installed on top of a 1.125" or 2.125" poly green foam pad which is placed directly onto the properly prepared subbase of concrete, asphalt or compacted aggregate. This creates a 1" air void and allows for maximum drainage.

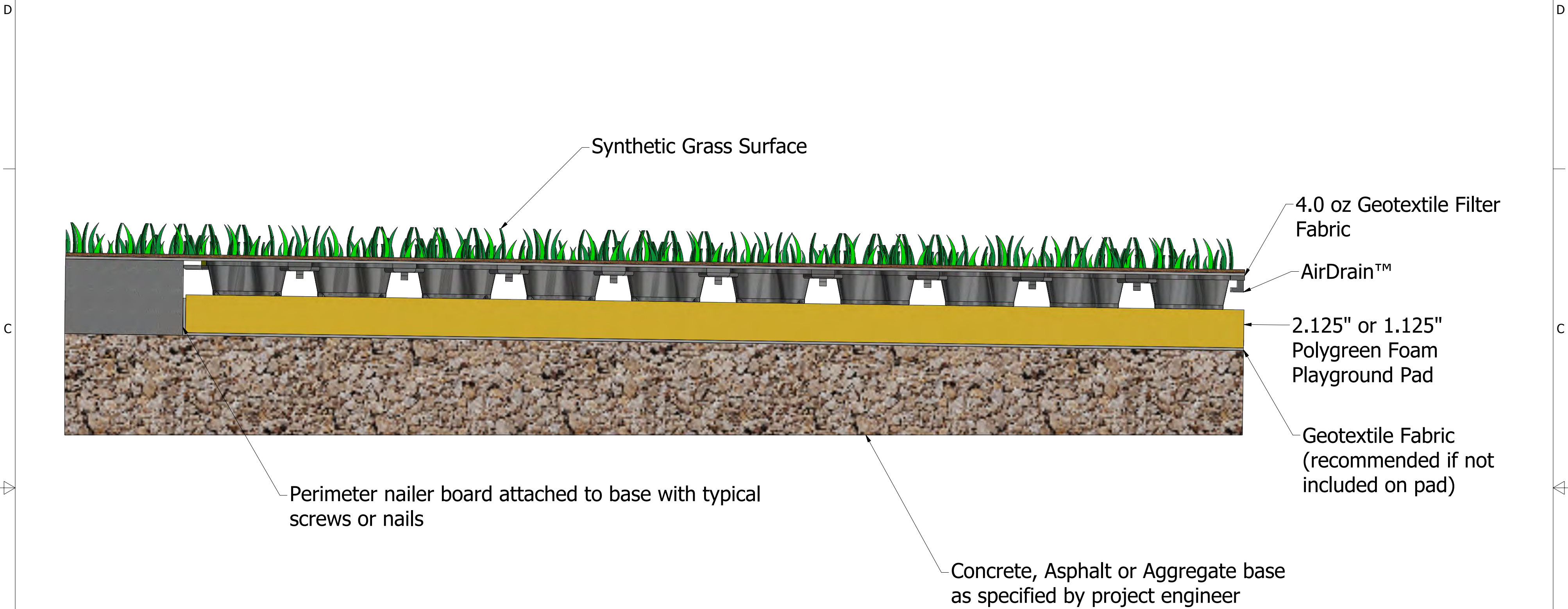


Benefits of an AirDrain playground drainage system include:

- AirDrain raises the entire profile 1" off the subbase and brings gravity into play
- AirDrain's 92% air-void space allows for fast and easy water removal
- Consistent fall height and shock attenuation for the life of the project provides a safe play area
- AirDrain is a 100% recycled copolymer which has the impact modifier "metallocene" added to it for qualification as a "No Break" plastic, making it able to withstand extreme heat and cold and still maintain performance
- AirDrain's quick snap connectors allows for effortless installation
- Minimal site disturbance, excavation and disposal
- Compact shipping reduces transportation costs

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AirDrain Application with Pad Below AirDrain



- AirDrain™ Unit Panel Specifications:**
- Size: 32" x 32" x 1"
 - Weight: 3.1 lb
 - Volume: 8% material, 92% air void
 - Strength: 233 psi (unfilled)
 - Resin: 100% Recycled (PIR)
Copolymer with Impact Modifier
"No Break" Polymer Material
 - Color: Black (3% carbon black added for UV Protection)



DRAWN G. Abdo	2/22/2015	AirField Systems		
CHECKED		TITLE AirDrain Application with Pad Below AirDrain		
QA				
MFG				
APPROVED		SIZE C	DWG NO Playground_AFS_SP_Under	REV REV_001
		SCALE	SHEET 1 OF 1	

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AirDrain – What drains better than Air?

For K9 Areas: Pet Playgrounds, Dog Runs, Kennels and More.....

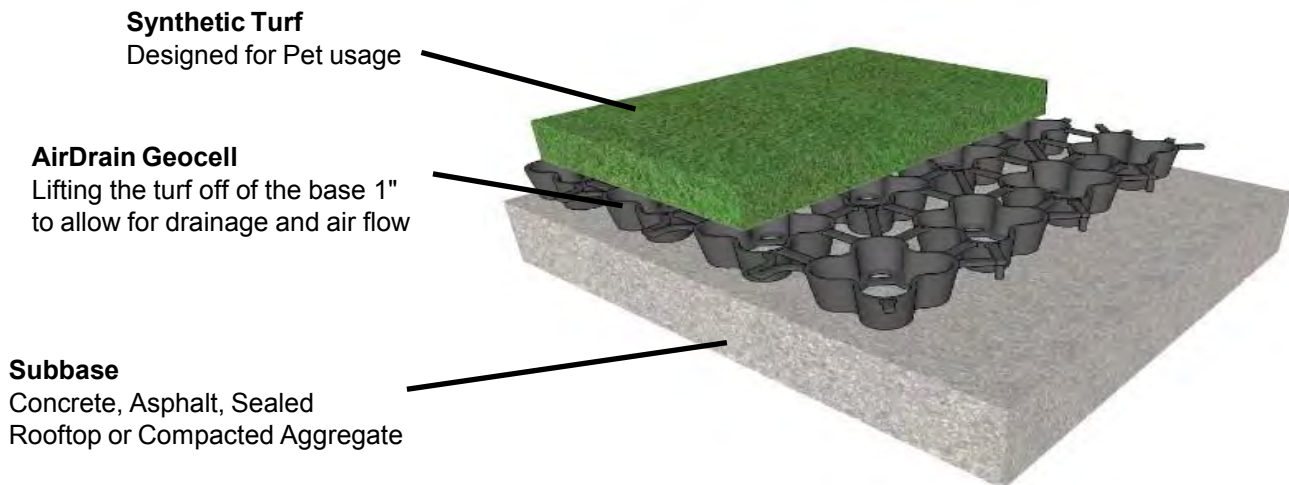
AirDrain is a 15+ year proven success! With over 500+ K9 areas installed, [AirDrain K9 Drainage by AirField Systems](#).

AirDrain is made with the highest quality 100% post manufactured industrial recycled content. Due to 92% air void underneath the turf, unwanted waste can be washed away quickly by using an easily installed flushing system. This flushing system attaches to any water source and uses inexpensive PVC piping around the perimeter of the grid. Low cost, easy to install, do it yourself drainage.

Dog Run Drainage Performance is divided into 3 parts:

1. How fast can the urine drain through the synthetic turf? This can be very problematic with many drainage products. The urine must pass through a small hole in the turf backing that is often sitting on other products flat surface. This forces the urine to squeeze horizontally through the small gap between the turf backing and the drainage surface. The urine won't drain until it finds a place to fall vertically.
2. The vertical drainage how fast can the urine pass all the way into the underlayment
3. Horizontal Drainage how fast can the urine be moved to the exit drain (AirDrain is 92% air)

The AirDrain Drainage System addresses all 3 of the above issues better than any other product on the market. Period!!!

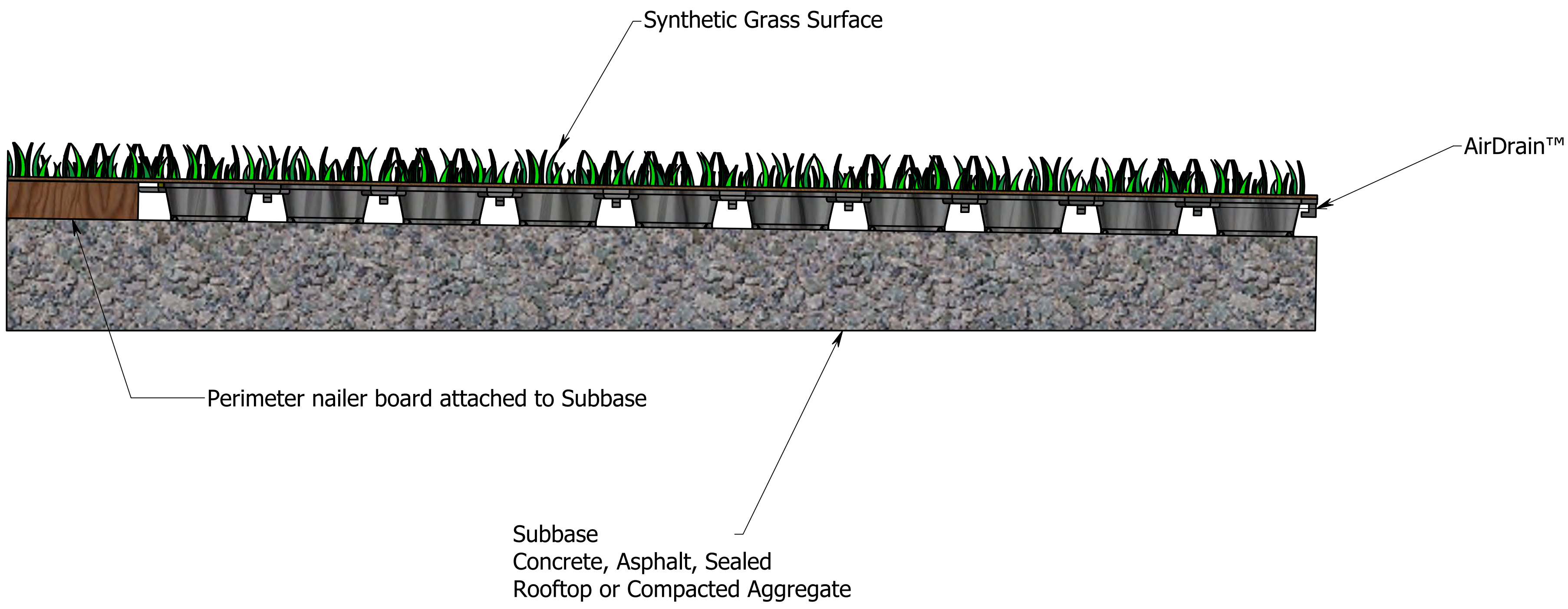


Benefits of an AirDrain K9 Drainage System area include:

- 92% air-void for fast and easy waste removal
- Ability to flush the area daily
- AirDrain's quick snap connectors allows for effortless installation
- Greatly reducing transportation costs going straight to the bottom line! No other product comes close to shipping as efficiently!

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Pet Areas and Dog Runs



- AirDrain™ Unit Panel Specifications:**
- Size: 32" x 32" x 1"
 - Weight: 3.1 lb
 - Strength: 233 psi (unfilled)
 - Resin: 100% Recycled (PIR)
Copolymer with Impact Modifier
"No Break" Polymer Material
 - Color: Black
(3% carbon black added for UV Protection)

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DRAWN Gary	8/6/2012	Airfield Systems		
CHECKED				
QA		Edge Detail on Pet Areas		
MFG				
APPROVED		SIZE C	DWG NO Concrete_Airpave_002	REV
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[AirDrain Drainage ASTM D4716 Synthetic Grass and Natural Grass Testing](#)

What drains better than air!

If your field floats, has ponding or infill migration (which is an extreme player safety and owner liability issue) and you can't figure out why, maybe because they said it would drain XX amount per hour when in reality, it doesn't and never will.

Those issues don't get better they get worse! Countless hours in maintenance and grooming, adding materials etc. etc. what's the cost of that every month?

In a Cost Value Performance scenario, no product comes close to AirDrain!

Over the years, many architects and engineers have asked us just how fast will the AirDrain grid drain. Our reply has always been that the AirDrain is only limited by what is above it and the exit drains due to the fact that the area of an AirDrain part is 1" inch high and has a 92% air void.

Recently, our AirDrain grid was tested using the [ASTM D 4716 Hydraulic Transmissivity Standard Test Method](#). The testing was done using plates on top and bottom of the AirDrain part, setting them to the required slope and adding water from one end down the slope. AirDrain was draining so fast they had to modify their testing equipment to accommodate the volume of water AirDrain could move.

As it turns out there is practically no resistance to drainage using the AirDrain grid? The most important factor to consider is the percentage of slope that the AirDrain is sitting on.

To put this in perspective of rainfall, AirDrain can handle anything that Mother Nature throws at it. On a nearly completely flat surface (1/2% of 1% slope) AirDrain will drain 2.85 inches of rainfall in one minute.

For example, it could rain over 171 inches in an hour and AirDrain could drain it. AirDrain can hold .576 gallons of water per sqft. if needed until it can evacuate to the perimeter exit drains.

AirDrain has been used in specs and projects where the city or county has limited the water that can be introduced into the sewer system or has limited the size or volume of the exit drains on a roof top. AirDrain's capability to hold water .576 gallons of water per sqft. in the grid until the exit drains can evacuate it is another plus for the AirDrain System.

No other product on the market comes close to AirDrain's ability to drain a project, it's not even close.

So when you see the claims of manufacturers rainfall per hour drainage, ask them if they have the test that really shows a products drainage capability.

**Now you know!
Nothing Drains Better Than Air!**

AirDrain