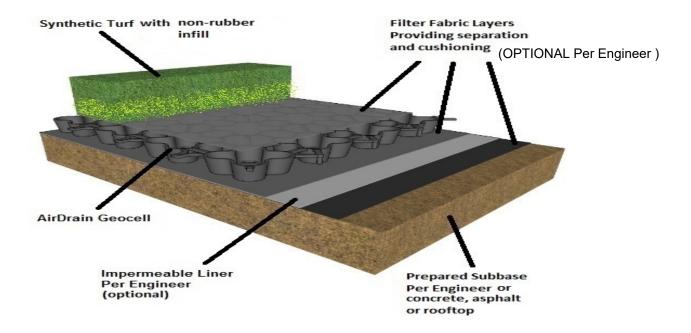
AirDrain What drains better than Air?

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)

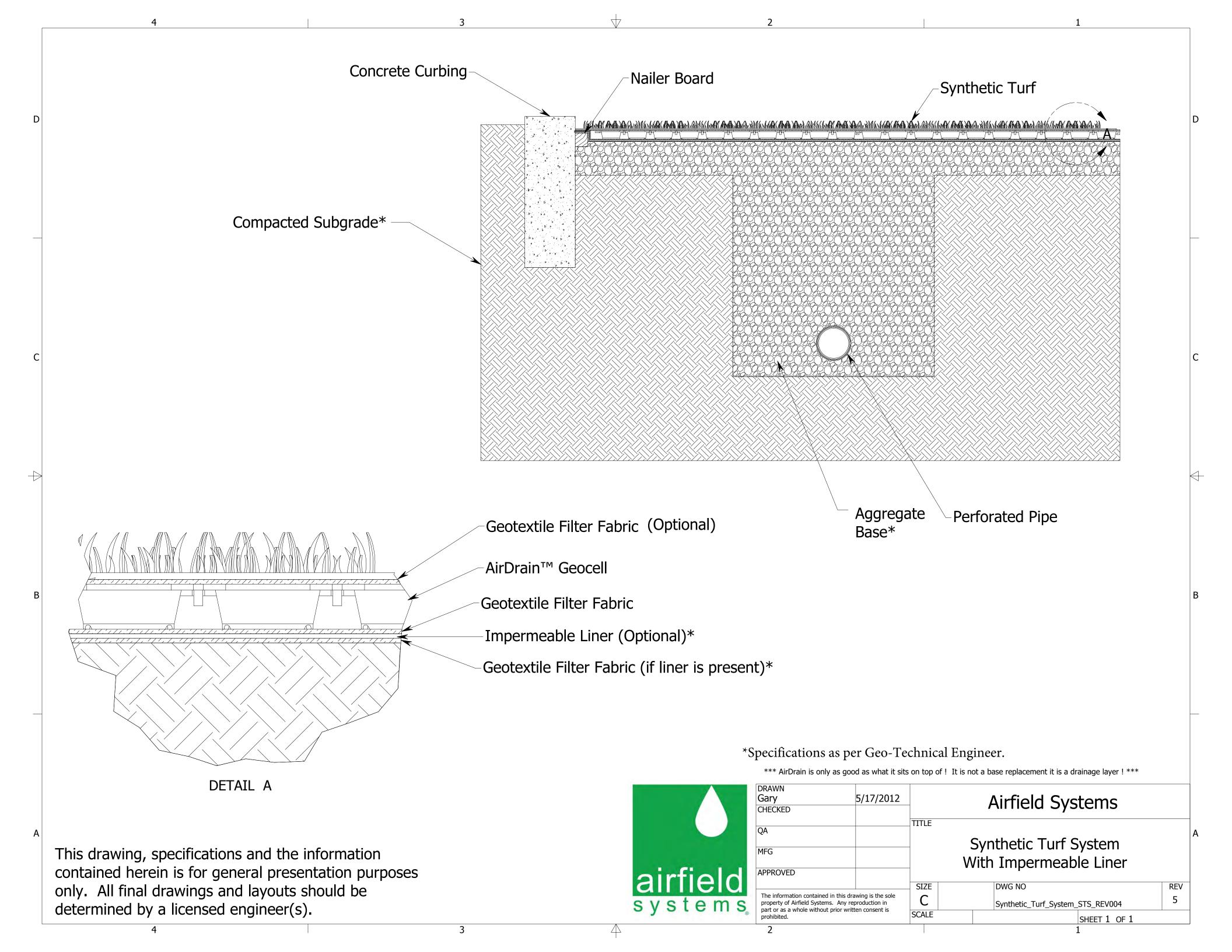
18.9% on a gravel subbase

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

^{*}This drawing, specifications and the information contained herein is for general presentation purposes only. All final drawings and layouts should be determined by a licensed engineer(s). HIC & Gmax testing are measured in a lab setting and are not site specific.

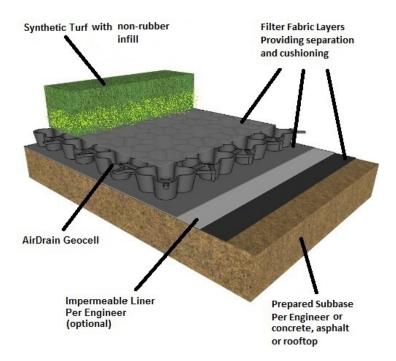


AirDrain What drains better than Air?

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.

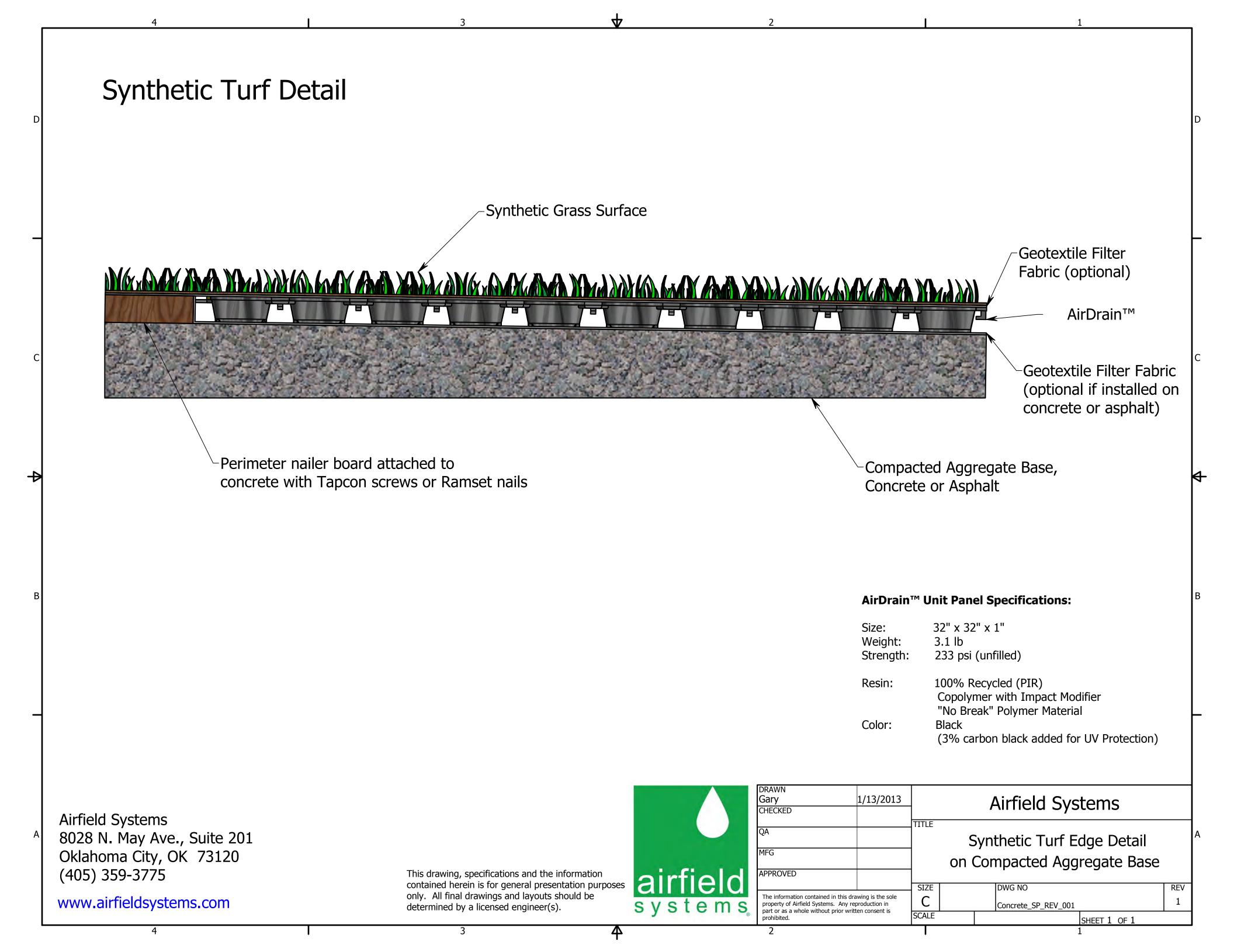
A **Rubber-Free Synthetic Turf Solutions** provided for Multi-Purpose Fields, Play Areas and general-purpose use reduces maintenance, upkeep and cleaning the surrounding area of rubber pieces that tend to find their way off the field.



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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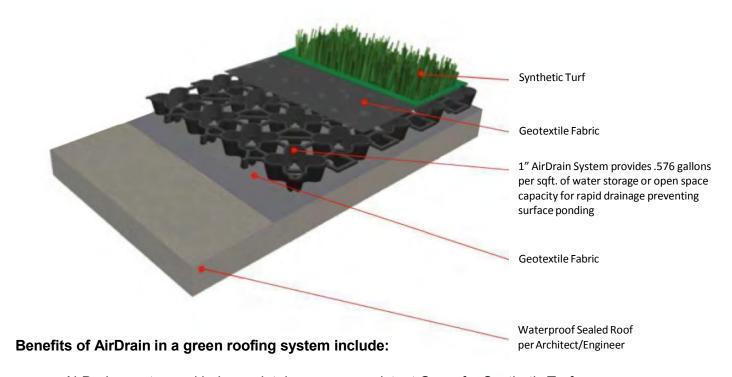


Green Roofing - Synthetic Turf

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.



- 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 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" E-108 Class A Rated Parts Zero Spread of Flame

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Synthetic Turf Rooftop

Synthetic Grass Surface Geotextile Filter MY AND MANNEY AND MANN Fabric (4oz) -AirDrain™ Geotextile Filter Fabric (10oz) -Perimeter nailer board attached to Weather Proofed Rooftop rooftop and weather proofed

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

AirDrain™ Unit Panel Specifications:

32" x 32" x 1" Size: 3.1 lb Weight:

233 psi (unfilled) Strength:

6747 psi (filled) 100% Recycled (PIR)

Copolymer with Impact Modifier

"No Break" Polymer Material

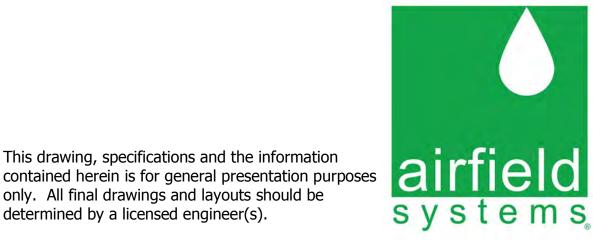
Color: Black

Resin:

(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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CHECKED		TITLE					
QA			Synthetic turf Edge Detail				
MFG		on Roof Top					
APPROVED			•				
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only. All final drawings and layouts should be

determined by a licensed engineer(s).

AirDrain

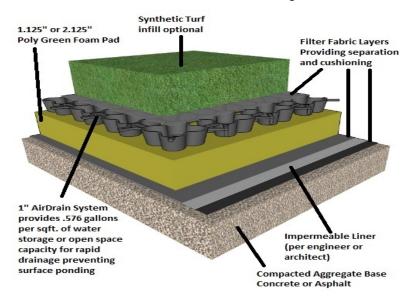
- What drains better than Air?

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" 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 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

Synthetic Grass Surface

Fabric -AirDrain™

4.0 oz Geotextile Filter

2.125" or 1.125" Polygreen Foam Playground Pad

Geotextile Fabric (recommended if not included on pad)

Perimeter nailer board attached to base with typical screws or nails

> Concrete, Asphalt or Aggregate base as specified by project engineer

AirDrain™ Unit Panel Specifications:

32" x 32" x 1" Size: 3.1 lb Weight:

8% material, 92% air void Volume:

Strength: 233 psi (unfilled)

100% Recycled (PIR) Resin:

> Copolymer with Impact Modifier "No Break" Polymer Material

Color: Black (3% carbon black added for UV Protection)

airfield systems

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QA		TITLE			Α					
QA		AirDrain Application with Pad								
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For K9 Areas: Pet Playgrounds, Dog Runs, Kennels and More.....

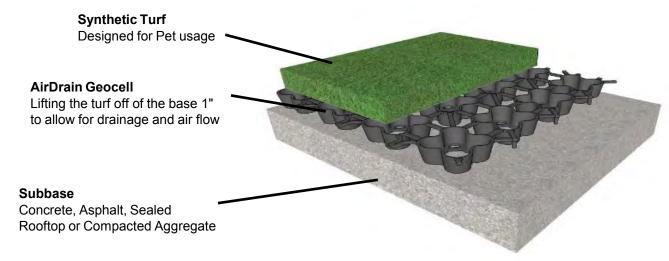
AirDrain is a 17+ year proven success! With over 800+ K9 areas installed, <u>AirDrain K9 Drainage by AirField Systems</u>.

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 wont 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)

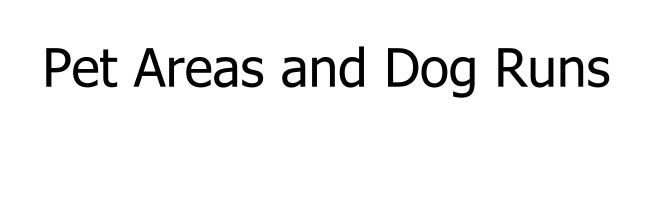
The AirDrain Drainage System addresses all 3 of the above issues better than any other product on the market. Period!!!



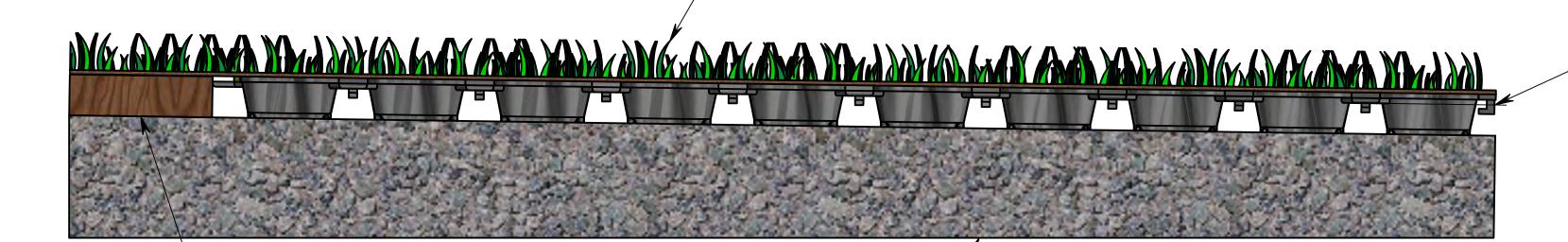
Benefits of an AirDrain K9 Drainage System area include:

- 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 effeciently!

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-Synthetic Grass Surface



Perimeter nailer board attached to Subbase

Subbase
Concrete, Asphalt, Sealed
Rooftop or Compacted Aggregate

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)

·AirDrain™

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	QA								
Į	MFG		Edge Detail on Pet Areas						
	APPROVED								
			SIZE			DWG NO		REV	
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®			SCALE				SHEET 1 OF 1		

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 <u>ASTM D 4716 Hydraulic Transmissivity Standard Test</u> <u>Method</u>. 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!



White Paper on the Gaps in the AirDrain Cups

Whenever you lay artificial turf on top of AirDrain it's the same principle as installing carpet. It is stretched and attached to the perimeter boarder, similar to carpet installation. The turf, typically has a 50-80 ounce polyurethane backer.

You will be adding between 1.5 - 3 lbs. of infill for ballast. Given that scenario, you'll never feel what's below the turf because the depth of the infill will not transfer down to the grid below the turf.

Since 2002, Airfield Systems has thousands of installs, to this date Airfield Systems has not received one call with a "gap" issue.

AirDrain's 8% solid is unmatched don't let'em kid ya! AirDrain is the only way to go Period! Don't forget about a 15-20 % reduction in GMAX. I'll put AirDrain up against any 1" pad in the industry any day of the week in 3rd party testing bring it! AirDrain brings a massive 233 psi

Don't get sold a bill of goods that doesn't come close to performance of AirDrain made in the USA!

If you have any questions or concerns whatsoever do not hesitate to call me at 405-361-2287

Michael T. Bean

Director of Sales

Airfield Systems, LLC

Cell: (405) 361-2887

airfieldsystems.com