AirField Systems

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To discuss your current project, call AirField Systems at (405) 359-3775.
You can also visit our website at www.airfieldsystems.com to view projects and specs.
AirPave

By AirField Systems,

A flexible porous paving and drainage system for grass pave fire lanes, reinforced turf paving and swales. With over 400 installations across the country AirPave for grass pave is 233 psi unfilled, **6,747 psi sand filled** and is made of 100% recycled content which can contribute to LEED™ points.

AirPave always ships with enough for 2 layers of the guaranteed analysis fertilizer needed. One for the sub base to be worked in before compaction and watered. And the other to be added on top of the sand filled grid and watered in before the turf grass is installed. We believe if done properly it will set up the project for the best possible result.

**AirPave can save the owner up to $0.80 per square foot or more over our nearest competitors.**

CSI Master Format #32 12 43, #32 92 00 and #32 14 43.

**6,747psi = 971,568psf**

**Strong enough for Fire Engines weighing more than 75,000 lbs.**

**Exceeding H-20 & H-25 AASHTO requirements**

**Benefits of an AirPave grass paving system include:**

- A 40% or more material cost savings over most competitors
- Up to 45% cost savings on shipping, compared with rolled grass paving systems
- **2 Layers of Sustane Fertilizer with a guaranteed analysis provided with every project.**
- AirPave has been installed in over 400 flexible porous paving projects
- AirPave is made with 100% recycled copolymer polypropylene plastic with an impact modifier added to achieve a (NO-BREAK) plastics classification and a minimum 3% carbon black added for UV protection.
- Loading capability is equal to 233 psi empty and **6,747 psi when filled with clean sharp sand, over an appropriate base depth that provides adequate support for project design loads exceeding H-20 & H-25 requirements.**
- AirPave is shipped on pallets with 114 parts equal to 798 sq. ft. per pallet. Each part is 32"x32"x1", weighs 3.10 lbs and is 8% solid.

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AirDrain – What drains better than Air?

For Natural Turf

It was concluded thru a research project conducted at Texas A&M University that irrigation needs can be reduced by using AirField Systems AirDrain. This five year research project was jointly funded by the United States Golf Association and AirField Systems, and was a collaborative effort between Texas A&M University, AirField Systems and the United States Golf Association. The data from the research showed that the AirField Systems drainage profile provided between 1-3 more days of plant available water than a United States Golf Association recommended gravel and sand profile. Click here for more information about the study titled “A Comparison of Water Drainage and Storage in Putting Greens Built Using Airfield Systems and USGA Methods of Construction”.

The AirDrain System has a unique ability no other system has in that it can flush the profile quickly and efficiently anytime its needed. This practice is particularly common where salt laden irrigation water is used and in areas along the East Coast, Gulf Coast, California coast, and Desert Southwest. Click here to see an article from the USGA on the benefits of flushing the profile.

Benefits of an AirField System Design include:

- Up to 3 more days of plant available water stored in the root zone (depending on climate)
- Significantly reduces daily irrigation needs (as told to us by our customers)
- Healthier turf / stronger root system (as told to us by our customers)
- 100% Vertical Drainage under the entire playing surface
- 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
- Helps eliminate standing water / simplifies maintenance (as told to us by our customers)
- Minimal site disturbance / far less excavation and disposal
- Several installation days are saved over a gravel installation
- Compact shipping which reduces overall storage and transportation costs
- AirDrain System sand profiles create its own perched water table

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AirDrain – What drains better than Air?

For Synthetic Turf

The consistent Gmax and 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 cannot be matched by any other product in the industry.

AirDrain reduces Gmax by:

- 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 Gmax for Synthetic Turf
- ASTM testing proves AirDrain’s shock absorption properties reduces Gmax
- 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 when the synthetic turf must be replaced

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AirDrain – What drains better than Air?

For Rubber-Free Synthetic Turf Solutions Using Non Rubber Infill

The consistent Gmax and 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 Sports 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 Gmax for Synthetic Turf
- ASTM testing proves AirDrain’s shock absorption properties reduces Gmax
- 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 when the synthetic turf must be replaced

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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 2,000,000 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
- A smaller carbon and development footprint with reduced site disturbance
- 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
- Resins can be made to the following specification “Flammability UL 94, Flame Retardant, High Impact Polypropylene Copolymer Resins”

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Green Roofing - Natural Turf

With limited space in urban areas businesses, schools and government buildings are turning to rooftop surfaces to create multi-use green areas. When building a rooftop green space, the AirField System provides drainage under 100% of the surface. An AirField Drainage System will prevent ponding and quickly remove excess water even during torrential rain.

Over 2,000,000 square feet of AirDrain rooftop drainage system installed and counting.

Natural Turf- Chesapeake Energy 74,000 sqft., Chesapeake Building 14 Rooftop Garden 4,000 sqft., Chesapeake Building 14 Courtyard 9,400 sqft.

Benefits of AirDrain in a green roofing system include:

- Up to 3 more days of plant available water stored in the root zone (depending on climate)
- Significantly reduces daily irrigation needs (as told to us by our customers)
- Healthier turf / stronger root system (as told to us by our customers)
- Can help qualify for LEED™ and other green building credits
- A smaller carbon and development footprint with reduced site disturbance
- Reduces Heat Island Effect and makes water harvesting, reclamation and reuse is easy
- AirDrain creates a one inch air barrier on the rooftop increasing the insulating properties. (R-Value)
- 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
- Resins can be made to the following specification “Flammability UL 94, Flame Retardant, High Impact Polypropylene Copolymer Resins”
- Pallets are 32”x32” and can easily fit into an elevator

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AirDrain – What drains better than Air?

Playground Drainage for Synthetic Turf

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 [HIC](#) and [Gmax](#) for the life of the AirDrain 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 – What drains better than Air?

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

AirDrain is a proven success! With over 500+ K9 areas installed, AirDrain K9 Drainage by AirField Systems is the ideal synthetic drainage system used in dog day care facilities, pet playgrounds, airport dog potties and general use common areas for dogs all across America.

AirDrain is made with the highest quality 100% postindustrial 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 makes AirDrain the ideal synthetic drainage system for kennels, dog boarding, pet facilities, dog parks, vet clinics, and even in your own backyard.

K9 areas are installed every day in public and private facilities across the world. Whether you utilize natural or artificial turf, the AirField System is a stress-free way to turn any common space into a fun place for people and their K9 friends. No more worrying about expensive and destructive gravel drainage and no problems with waste being left behind. An AirField System is the easiest and fastest way to install a K9 recreation area.

Benefits of an AirDrain K9 area include:

• 100% post industrial recycled content
• 92% air-void for fast and easy waste removal
• Ability to flush the area daily
• AirDrain’s quick snap connectors allows for effortless installation
• Minimal site disturbance, far less excavation and disposal
• Compact shipping reducing transportation costs

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For Golf- Greens, Bunkers, Tee Boxes and Fairways

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- Several Installation days are saved over a gravel installation
- Compact shipping that reduces overall storage and transportation costs

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