

AirDrain FR

By AirField Systems

**ASTM E108-17, Standard Test Methods for Fire Tests of Roof Coverings,
Class A Spread of Flame Testing**

**AirDrain FR passed the ASTM E108-17 SoF Test Achieving CLASS A Rating
with ZERO SPREAD of FLAME!!!**

AirDrain FR Specs:

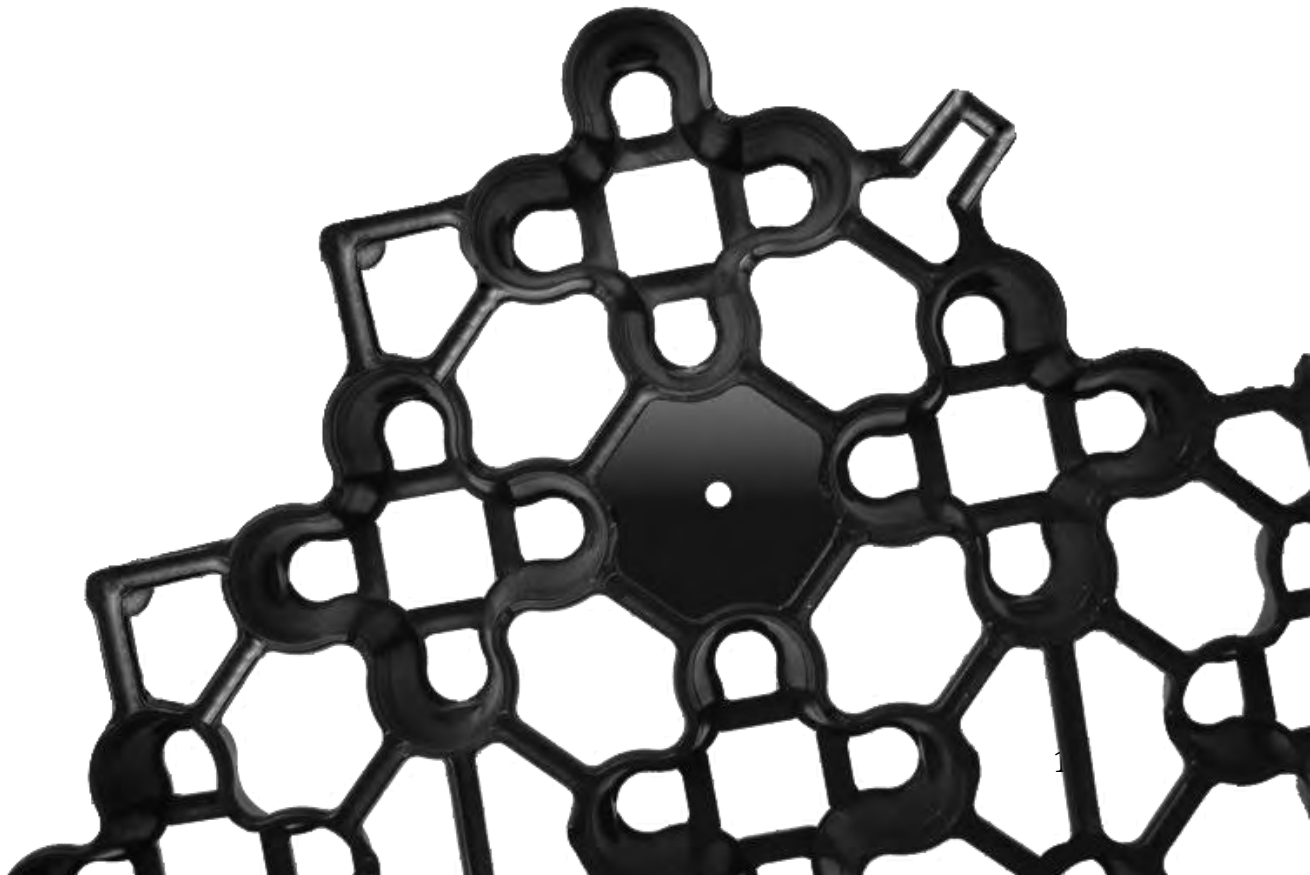
AirDrain FR Dimensions: 32"x32"x1" = 7.1 sqft. per part

AirDrain FR Weight: 3.22 lbs. per part

Pallet Dimensions: 32"x32"x48" = 798 sqft. per pallet

Pallet Weight: 412 lbs.

Truckload 54' Shipping: 114 pallets/12,996 parts = 90,972 sqft.



AirDrain FR

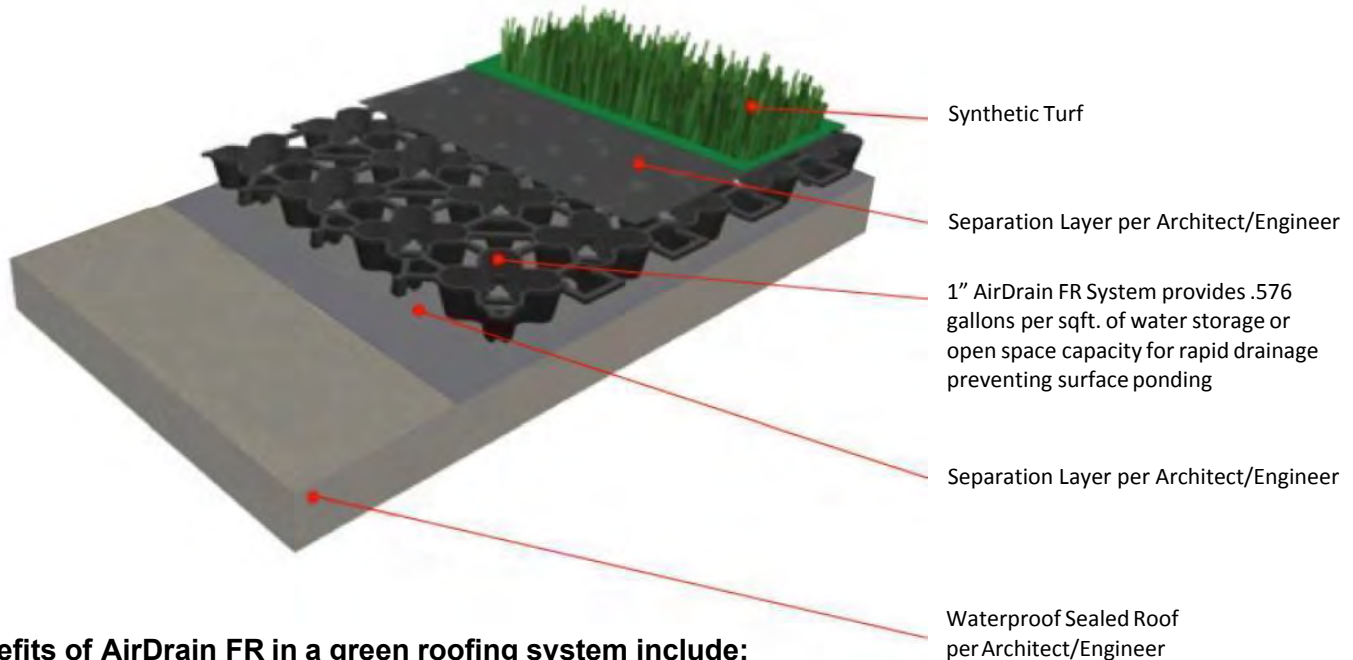
Green Roofing - Synthetic Turf

ZERO SPREAD OF FLAME

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.

AirDrain FR Drainage System can be used for any type of rooftop application. Synthetic Grass, Natural Grass, Planters, Gardens, Paver Stone or any other products that need a drainage layer or 1" Air Void for access.

ZERO SPREAD of FLAME means that with direct flame on the AirDrain FR the grid did not ignite or burn outside of the area the flame touched.

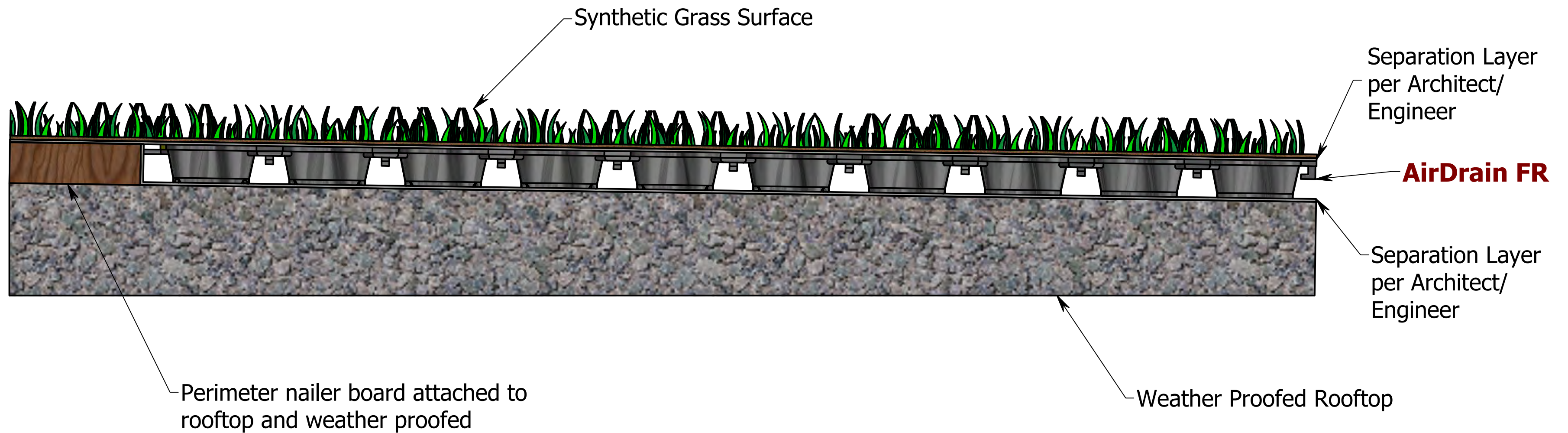


Benefits of AirDrain FR in a green roofing system include:

- AirDrain FR creates and helps maintain a more consistent Gmax for Synthetic Turf
- ASTM testing proves AirDrain FR allowed ZERO SPREAD of FLAME
- AirDrain FR 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 412lbs.)
- Water harvesting reclamation and reuse is easy
- AirDrain FR creates a 1" air barrier on the rooftop which increases the insulating properties.
- AirDrain FR is a Flame Retardant, High Impact Polypropylene Copolymer, Black ASTM D256 No Break Polymer Material UL94 Recognized V-0 Flammability Rating Black (3% carbon black added for UV protection)

**Now Available "AirDrain FR" E-108 Class A Rated Parts
Zero Spread of Flame**

Synthetic Turf Rooftop



**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)

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 Oklahoma City, OK 73120
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www.airfieldsystems.com

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DRAWN Gary	1/13/2013	AirField Systems		
CHECKED				
QA		TITLE Synthetic turf Edge Detail on Roof Top		
MFG		SIZE C	DWG NO Concrete_SP_REV_001	REV 1
APPROVED		SCALE	SHEET 1 OF 1	
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AirDrain FR

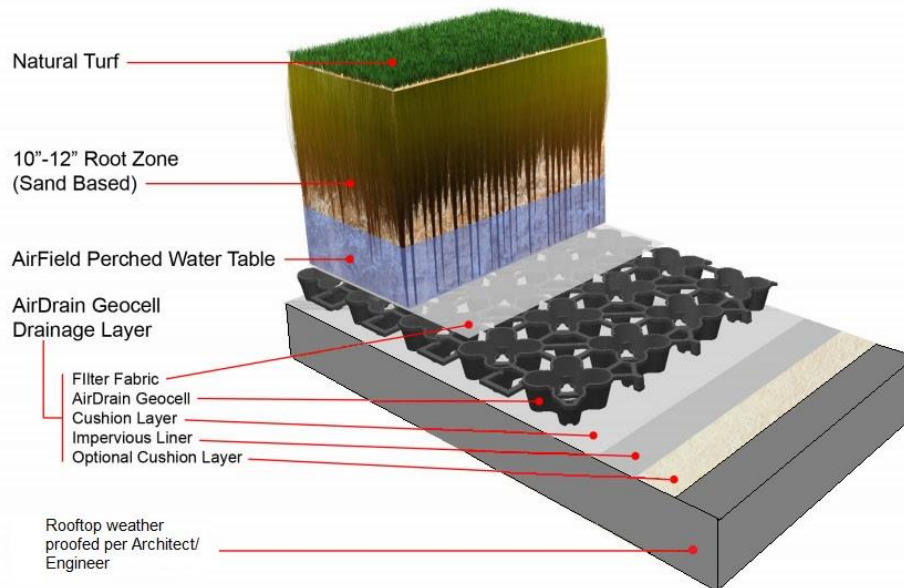
Green Roofing - Natural Turf

ZERO SPREAD of FLAME

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

AirDrain FR Drainage System can be used for any type of rooftop application. Natural Grass, Synthetic Turf, Planters, Gardens, Paver Stone or any other products that need a drainage layer or 1" Air Void for access.

ZERO SPREAD of FLAME means that with direct flame on the AirDrain FR the grid did not ignite or burn outside of the area the flame touched.

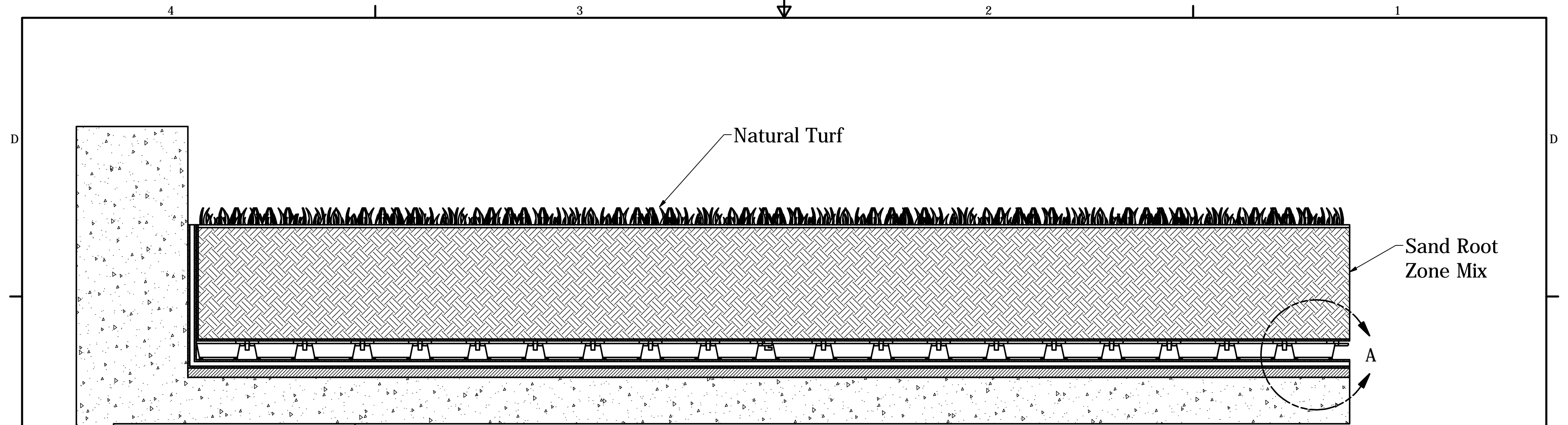


Benefits of AirField in a green roofing system include:

- 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 FR creates a one inch air barrier on the rooftop increasing the insulating properties. (R-Value)
- AirDrain FR is a Flame Retardant, High Impact Polypropylene Copolymer, Black ASTM D256 No Break Polymer Material UL94 Recognized V-0 Flammability Rating Black (3% carbon black added for UV protection)
- Pallets are 32"x32" and can easily fit into an elevator

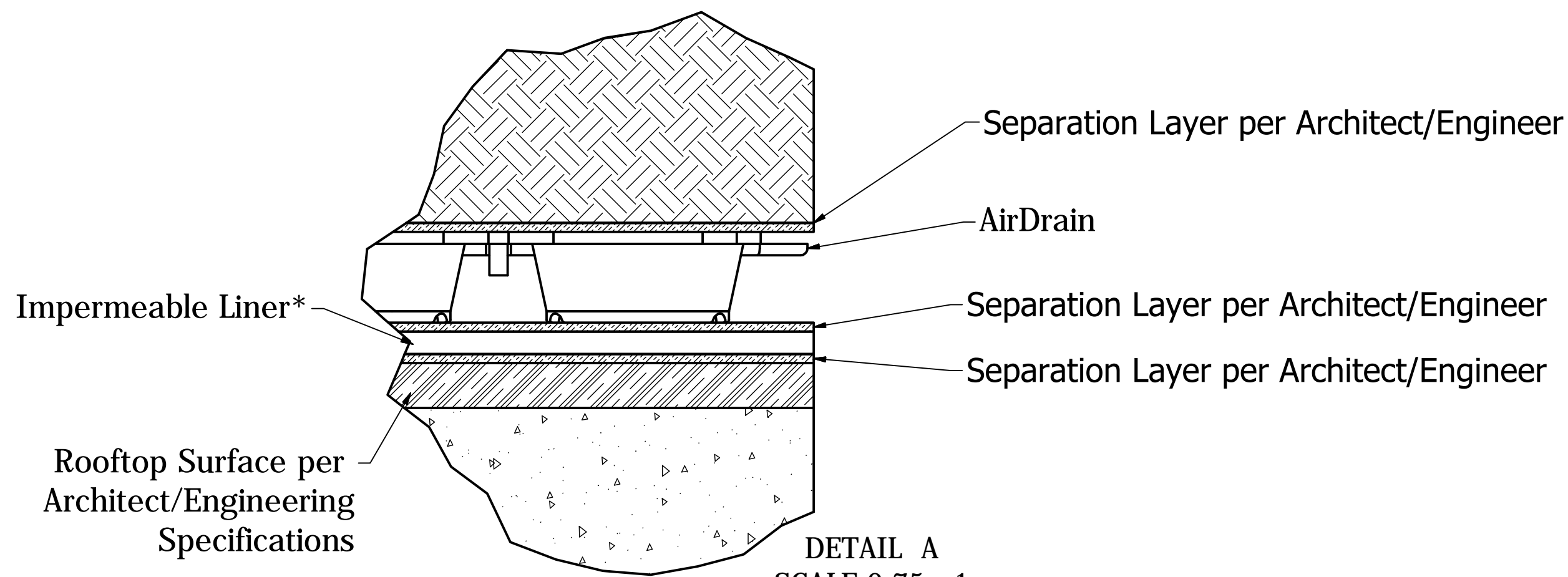
Now Available "AirDrain FR" passed the ASTM E108-17 Standard Test Methods for Fire Tests of Roof Coverings, Class A Spread of Flame Testing with **ZERO SPREAD of FLAME!!!**

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

Roof Top



DETAIL A
SCALE 0.75 : 1

*Impermeable Liner and or other waterproofing must be specified by a qualified engineer.

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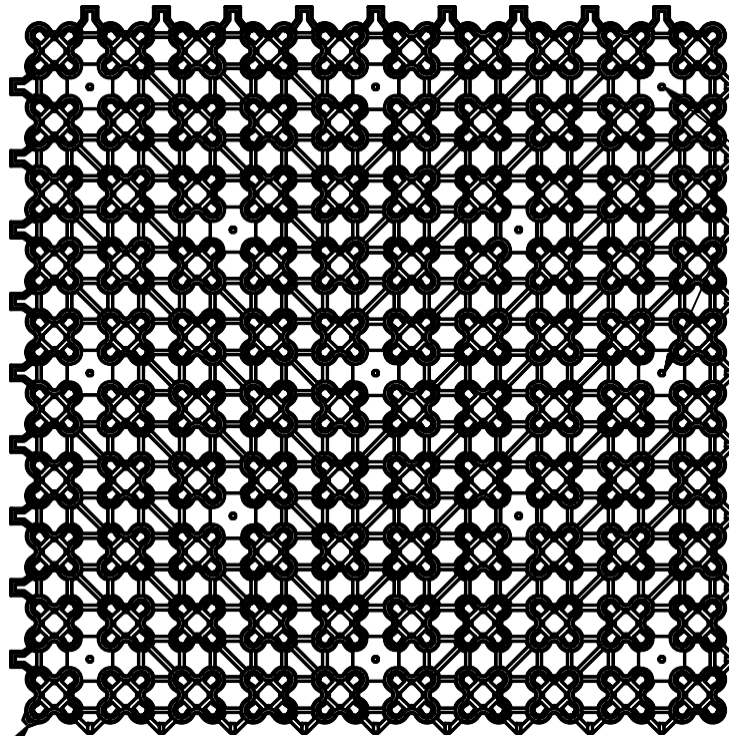
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DRAWN Gary	4/2/2012	AirField Systems	
CHECKED			
QA		TITLE AirDrain FR Natural Turf Rooftop Drainage	
MFG		SIZE C	DWG NO Rooftop Assembly RT_004
APPROVED		SCALE	REV 6
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AirDrain FR Geocell
E-108 Class A Rated
ZERO Spread of Flame



Anchor Platforms (13 Total)

Yellow
Indicator Tab

Unit Panel Specifications:

Size: 32" x 32" x 1"
Weight: 3.22 lbs.
Strength: 233 psi (unfilled)

Resin: Flame Retardant, High Impact Polypropylene
Copolymer "No Break" Polymer Material
ASTM E108-17 Class A SoF Rated

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

AirDrain FR E-108 Class A Rated Cross Section

Scale 0.12:1

Typical

For AirDrain Rooftops



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Drawing No. ADCS002.dwg



PRODUCT DATA SHEET – 14N5006NC

Flame Retardant, High Impact Polypropylene Copolymer, Black

PROPERTY	TYPICAL VALUE	TEST METHOD
MELT FLOW RATE (230°C/2.16kg), g/10min	12	ASTM D1238
SPECIFIC GRAVITY	0.99	ASTM D792
NOTCHED IZOD IMPACT, ft·lb/in	No Break	ASTM D256
GARDNER DART IMPACT, in·lb	160	ASTM D5420
TENSILE STRENGTH, psi	2800	ASTM D638
FLEXURAL MODULUS (tangent), psi	135,000	ASTM D790
HDT @ 66 psi, °F	175	ASTM D648
SHORE D HARDNESS	63	ASTM D2240
FLAMMABILITY, 0.062” minimum thickness	V-0*	UL94*
RTI RATING, °F, 0.062” minimum thickness	230*	UL746*
LINEAR MOLD SHRINKAGE, in/in	0.016-0.022	Matrixx Method

* UL recognized, File E158835

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