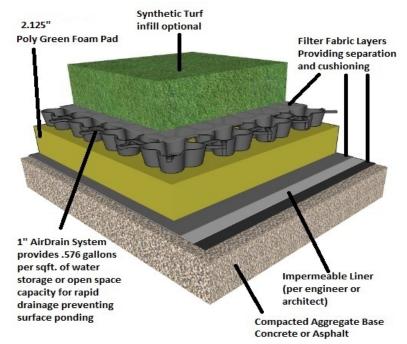
AirDrain _ What drains better than Air?

Playground Drainage for 9 ft Fall Height No Infill

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 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.

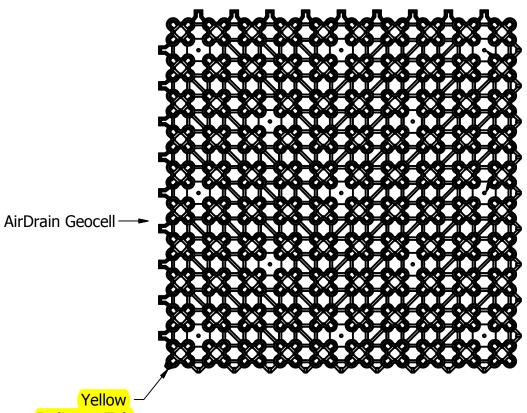


Benefits of an AirDrain playground drainage system include:

- 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

*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.





Indicator Tab

Unit Panel Specifications:

| Size: Weight: | 32" x 32" x 1" 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) |

AirDrain Cross Section

Scale 0.12:1

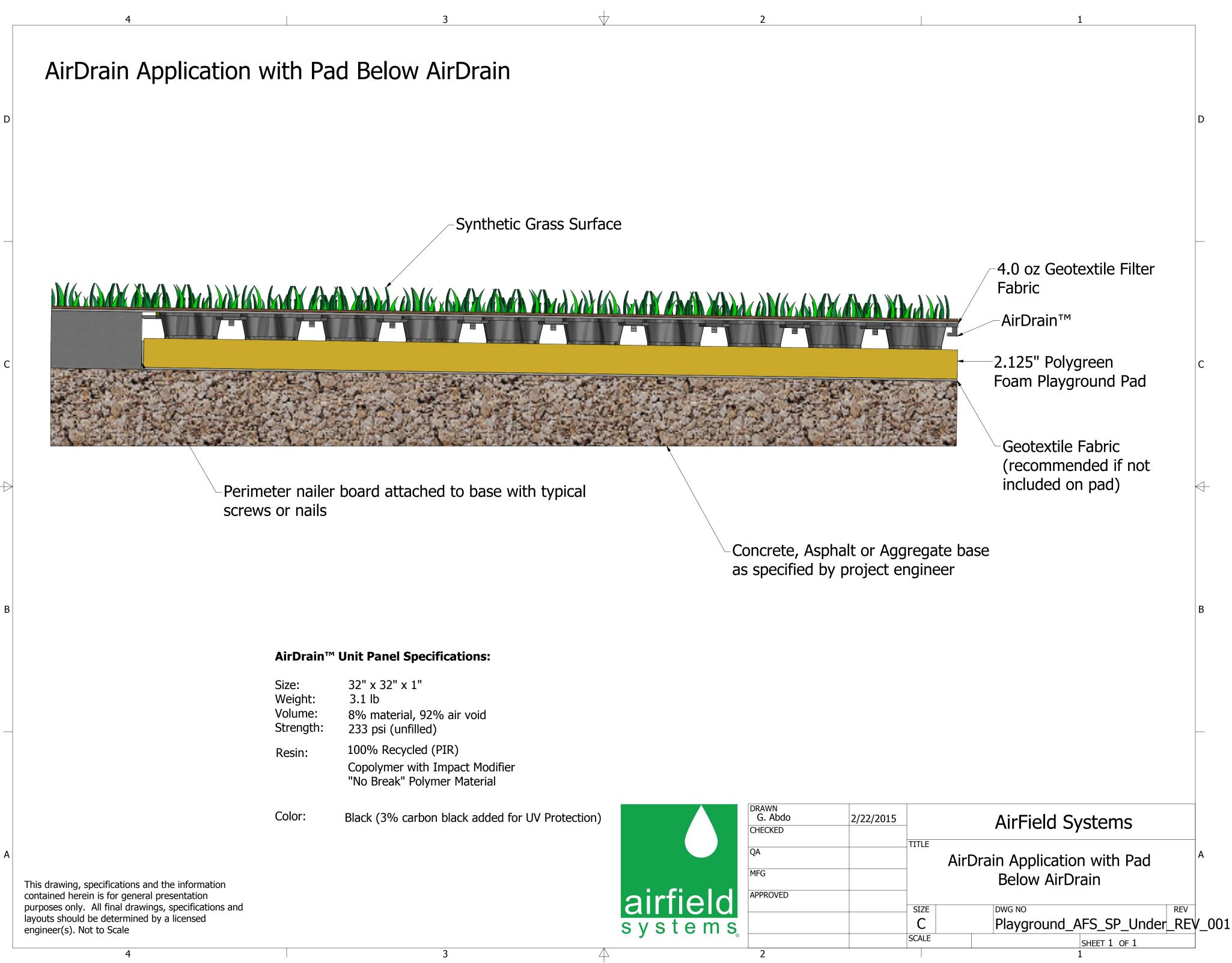
Typical

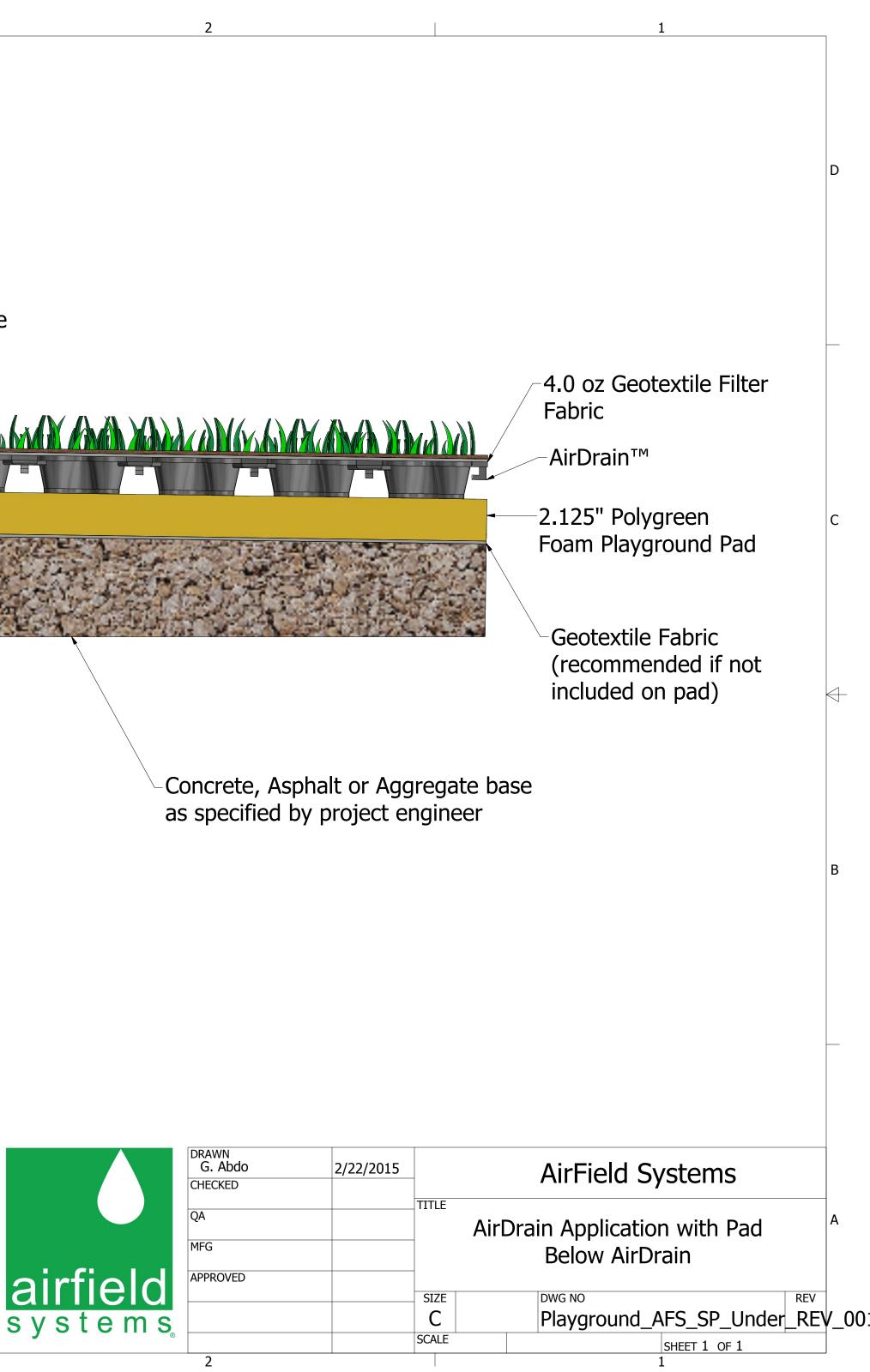
For AirDrain Grass Systems



Airfield Systems, LLC 8028 N May Ave, Suite 201 Oklahoma City, OK 73120 (405) 359-3375

www.airfieldsystems.com







TESTING SERVICES, INC. 817 SHOWALTER AVE., PO BOX 2041 DALTON, GA 30722-2041 PHONE: (706)226-1400 FAX: (706)226-6118



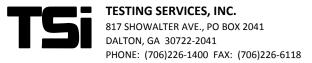
TEST REPORT

| CLIENT: | Airfield Systems | REPORT NUMBER: | 62296 |
|----------------------|---------------------------------|---|--|
| | 8028 North May Avenue Suite 201 | LAB TEST NUMBER: | 2650-1155-1 |
| | Oklahoma City, OK 73120 | DATE: | November 7, 2014 |
| REQUESTED BY: | Michael Bean | PAGE: | 1 of 2 |
| Turf Description | ATS Turf 69sl/st | | Тор |
| Infill System | None | | p |
| Underlayment | 8 oz Filter Fabric | | |
| Grid: | AirDrain | | |
| Pad System: | 2 1/8" Polygreen Foam | | |
| Sub Base | Concrete | | Bottom |
| Tested Dimension: | 3' X 3' | | |
| Impact Location: | Various | | |
| Date of Receipt: | August 9, 2014 | | |
| Testing Period: | September 9-12, 2014 | | |
| Authorization: | Micheal Bean | | |
| Test Procedure: | procedures outlined in AS | | Properties in Accordance with the ication for Impact Attenuation of nt |
| <u>Missle:</u> | Hemispherical (Triaxial Ac | celerometer): Total Drop Asser | nbly Weight (46g) 10 lbs |
| Test Equipment: | Triax 2000 Surface Impact | tor 4/16/2014 by Alpha Automation | (Valid thru 5/16/2015) |
| Sample Pre-Conditi | ion: 50±10 RH, 70F±5F for a r | minimum of 24 hrs piror to testin | g |
| Temperature: | | Maximum Drop Height That G a of 200 or Less and A HIC of 1 | |
| Ambient, 61.7°F 38% | 6 RH | 9' | |
| Hot, 120°F (49°C) | | 9' | |
| Cold, 25°F (-6°C) | | 9' | |
| Critical Fall Height | (CFH): | 9' | |

Prepared and signed by:

Digitally signed by Erfe Miles, Jr. VP Dix: on-Erfe Miles, Jr. VP, o=Testing Services Inc., ou, email=sioffice@windstream.net, c=US Date: 2014.11.07 15:54:18.0500'

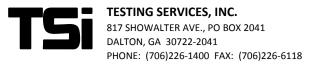
Erle Miles, Jr. VP Testing Services Inc.



Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around Playground Equipment

| Date Tested: 9-Sep-14 Fall Height: 9' Lab # 26 Drop Area: Center of Assembly Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax Gmax <thg< th=""><th></th></thg<> | |
|---|-----------|
| Underlayment: Grid: AirDrain Underlayment: Sub Base:4 oz Filter Fabric AirDrain OncreteBottomConditions: Date Tested:Ambient, 83°F 39% RH 9-Sep-14Report #: Fall Height:62197 9'Page # Lab #2 2 2 26Drop Area:Center of Assembly Velocity ft/secAngle 7Drop Ht/Actual 9'Drop Ht/Theoretical 6 128Gmax 128Drop Area:Center of Assembly Velocity ft/secAngle 7Orop Ht/Actual 9'Drop Ht/Theoretical 8.88Gmax 128Drop Area:Center of Assembly Velocity ft/secOrop Ft/Actual 9'Drop Ht/Theoretical 8.88Gmax 128Drop Area:Center of Assembly Velocity ft/secOrop Ft/Actual 9'Drop Ht/Theoretical 6.888Gmax 128Drop # Velocity ft/secAngle 9'Drop Ht/Actual 9'Drop Ht/Theoretical 8.88Gmax 128Drop # Velocity ft/secAngle 9'Drop Ht/Actual 9'Drop Ht/Theoretical 8.88Gmax 124123.939'8.88134323.919'8.88134323.919'8.88134323.939'8.88132223.939'8.88132223.939'8.88132323.939'8.88132323.939'8.88132323.939'8.88 <td></td> | |
| Grid: Underlayment: Sub Base:AirDrain 2 1/8" PolyGreen Foam ConcreteBottomConditions: Date Tested:Ambient, 83°F 39% RH 9-Sep-14Report #: Fall Height:62197 9'Page # Lab #2 26Drop Area:Center of AssemblyFall Height:9'Lab # Lab #26Drop Area:Center of AssemblyDrop Ht/Actual 1Drop Ht/Actual 23.9Drop Ht/Actual 7Orop Ht/Actual 9'Base128123.979'8.881333333323.909'8.8813233333Quadrant of AssemblyDrop Ht/Actual 1Drop Ht/Theoretical 8.88Gmax123.939'8.88132123.939'8.88134323.919'8.88134323.919'8.88134323.919'8.88141AverageDrop 2, 319'8.88141141616161616Quadrant of AssemblyDrop Ht/Actual 1Drop Ht/Actual 25.9Drop Ht/Theoretical 26.9Gmax1623.9169'8.881321616123.909'8.8813213161616161616161616161616161616161616 <td></td> | |
| Underlayment: Sub Base:2 1/8" PolyGreen Foam ConcreteBottomConditions: Date Tested:Ambient, $83^{\circ}F 39\%$ RH 9-Sep-14Report #: Fall Height: 62197 9'Page # Lab #2 26Drop Area:Center of AssemblyFall Height:9'Lab #26Drop Area:Drop # Velocity fl/secAngle AngleDrop Hl/Actual Orop Hl/ActualDrop Hl/Theoretical GmaxGmax123.979'8.88133323.909'8.88132AverageDrop S 2, 3Drop Hl/ActualDrop Hl/TheoreticalGmax123.939'8.88122223.929'8.88134323.919'8.88141AverageDrops 2, 39'8.88141AverageDrops 2, 3138Dag141AverageDrop 8'8.88132138Duadrant of AssemblyDrop Hl/ActualDrop Hl/TheoreticalGmax123.909'8.88132223.949'8.88132323.939'8.88132323.939'8.88132323.939'8.88132323.939'8.88132323.939'8.88132323.939'8.88 | |
| Sub Base:ConcreteBottomConditions: Date Tested:Ambient, $83^{\circ}F 39\%$ RH 9-Sep-14Report #: Fall Height: 62197 9'Page # Lab #2 26Drop Area:Center of AssemblyFall Height:9'Lab #26Drop Area:Center of AssemblyDrop HU/Actual 23.9Drop HU/Actual 7Drop HU/Theoretical 63.88Gmax123.9798.88133323.909'8.88132AverageDrop #Nop HU/ActualDrop HU/TheoreticalGmax123.939'8.88124223.929'8.88124323.919'8.88124123.939'8.88134323.919'8.88141AverageDrop 2,3138Cuadrant of Assembly138Cuadrant of AssemblyDrop HU/ActualDrop HU/TheoreticalGmax123.909'8.88124323.919'8.88124323.919'8.88124323.919'8.88124323.939'8.88124323.939'8.88124423.939'8.88124523.939'8.88124623.93 | |
| Conditions: Ambient, 83°F 39% RH Report #: 62197 Page # 2 Date Tested: 9-Sep-14 Fall Height: 9' Lab # 26 Drop Area: Center of Assembly Drop # Velocity fil/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 7 9' 8.88 128 2 23.9 0 9' 8.88 133 3 23.9 0 9' 8.88 132 Average Drop # Velocity fil/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 132 Average Drop # Velocity fil/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drops 2, 3 138 Quadrant of Assembly Drop Ht/Actual Drop Ht/Theoretical Gmax | |
| Date Tested: 9-Sep-14 Fall Height: 9' Lab # 26 Drop Area: Center of Assembly Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax Gmax <thg< td=""><td></td></thg<> | |
| Date Tested: 9-Sep-14 Fall Height: 9' Lab # 26 Drop Area: $\overline{Center of Assembly}$ Angle $\overline{Drop Ht/Actual}$ $\overline{Drop Ht/Phoeretical}$ \overline{Amax} <td< td=""><td>of 4</td></td<> | of 4 |
| Drop Area: Center of Assembly Prop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 7 9' 8.88 133 2 23.9 0 9' 8.88 133 3 23.9 0 9' 8.88 132 Average Drops 2, 3 133 132 Quadrant of Assembly Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 132 Quadrant of Assembly Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 134 3 23.9 1 9' 8.88 134 3 23.9 2 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 0 9' | 50-1155-1 |
| Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 7 9' 8.88 128 2 23.9 0 9' 8.88 133 3 23.9 0 9' 8.88 132 Average - Drops 2, 3 133 132 Average Drop # Velocity ft/sec Angle Drop pt/ Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 132 Average - Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 122 2 23.9 1 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drops 2, 3 138 128 132 2 23.9 0 9' 8.88 132 2 23.9 3 <td< td=""><td></td></td<> | |
| 1 23.9 7 9' 8.88 128 2 23.9 0 9' 8.88 133 3 23.9 0 9' 8.88 132 Average Drop 5, 3 133 132 Quadrant of Assembly Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 122 2 23.9 3 9' 8.88 122 2 23.9 3 9' 8.88 124 1 23.9 3 9' 8.88 124 2 23.9 1 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drops 2, 3 138 138 141 Quadrant of Assembly Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 0 9' 8.88 128 2 23.9 3 9' 8.88 132 3 23.9 3 9' 8.8 | |
| 223.909'8.88133323.909'8.88132AverageDrop S 2, 3133Drop # Assembly123.9AngleDrop Ht/ActualDrop Ht/TheoreticalGmax123.939'8.88134223.929'8.88134323.919'8.88141AverageDrop S 2, 3138141Drop #Velocity ft/secAngleDrop Ht/ActualDrop Ht/TheoreticalGmax123.909'8.88128223.949'8.88128223.939'8.88132323.939'8.88137423.939'8.88137323.939'8.8813749'8.88137135Drops 2, 39'339'8.881374YerageDrops 2, 3135 | HIC |
| 323.909'8.88132AverageDrops 2, 3133 Quadrant of Assembly $Drop #$ Velocity ft/secAngleDrop Ht/ActualDrop Ht/TheoreticalGmax123.939'8.88122223.929'8.88134323.919'8.88141AverageTorops 2, 3Torop 14/ActualDrop Ht/TheoreticalGmaxDrop #Velocity ft/secAngleDrop Ht/ActualDrop Ht/TheoreticalGmax123.909'8.88128223.949'8.88132323.939'8.88137323.939'8.881374verage $I3.9$ 39'8.88137 $Average$ $I3.9$ $I3.9$ $I3.9$ $I3.9$ $I3.9$ $I3.9$ $I3.9$ $I3.9$ $I3.9$ $I4.9$ $I3.9$ <td>834</td> | 834 |
| Average Drop # Velocity fl/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 122 2 23.9 2 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drop S 2, 3 133 14 14 3 23.9 1 9' 8.88 141 Average Drop S 2, 3 138 141 Average Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 0 9' 8.88 128 2 23.9 4 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 9' 8.88 135 | 884 |
| Quadrant of Assembly Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9' 8.88 122 2 23.9 2 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drop s2, 3 138 141 Average Drop s2, 3 138 138 Quadrant of Assembly Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 0 9' 8.88 122 Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 0 9' 8.88 128 2 23.9 4 9' 8.88 132 3 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 9' 8.8 | 874 |
| Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 3 9 8.88 122 2 23.9 2 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drop s2, 3 138 141 Average Drops 2, 3 Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 1 9' 8.88 141 Average Drops 2, 3 138 141 Average Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 0 9' 8.88 132 2 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 9' 8.88 135 Quadrant of Assembly Drops 2, 3 135 135 | 879 |
| 1 23.9 3 9' 8.88 122 2 23.9 2 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drop 2, 3 138 Quadrant of Assembly 1 23.9 0 9' 8.88 122 2 23.9 1 Drop 2, 3 138 Quadrant of Assembly 1 23.9 0 9' 8.88 128 2 23.9 4 9' 8.88 132 3 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 9' 8.88 135 Quadrant of Assembly Drops 2, 3 135 | |
| 2 23.9 2 9' 8.88 134 3 23.9 1 9' 8.88 141 Average Drop 2, 3 138 Quadrant of Assembly Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 0 9' 8.88 128 2 23.9 4 9' 8.88 132 3 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 9' 8.88 137 Quadrant of Assembly Drops 2, 3 135 | HIC |
| 3 23.9 1 9' 8.88 141 Average Drop s 2, 3 138 Quadrant of Assembly 1 100 9' 138 1 23.9 0 9' 8.88 128 2 23.9 4 9' 8.88 128 3 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 9' 8.88 137 Quadrant of Assembly Drops 2, 3 135 | 767 |
| AverageDrops 2, 3138Quadrant of AssemblyDrop Ht/ActualDrop Ht/TheoreticalGmax123.909'8.88128223.949'8.88132323.939'8.88137AverageDrops 2, 3135135Quadrant of AssemblyDrops 2, 3135 | 895 |
| Quadrant of AssemblyDrop #Velocity ft/secAngleDrop Ht/ActualDrop Ht/TheoreticalGmax123.909'8.88128223.949'8.88132323.939'8.88137AverageDrops 2, 39'135Quadrant of Assembly | 964 |
| Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax 1 23.9 0 9' 8.88 128 2 23.9 4 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 135 135 | 930 |
| 1 23.9 0 9' 8.88 128 2 23.9 4 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 9' 135 Quadrant of Assembly | |
| 2 23.9 4 9' 8.88 132 3 23.9 3 9' 8.88 137 Average Drops 2, 3 135 Quadrant of Assembly 135 | HIC |
| 3 23.9 3 9' 8.88 137 Average Drops 2, 3 135 Quadrant of Assembly 135 | 845 |
| AverageDrops 2, 3135Quadrant of AssemblyDrops 2, 3135 | 871 |
| Quadrant of Assembly | 919 |
| | 895 |
| Dren # Malasity flass Angle Dren Hild stud Drev Hild Factorial C | |
| Drop # Velocity ft/sec Angle Drop Ht/Actual Drop Ht/Theoretical Gmax | HIC |
| 1 N/A N/A N/A N/A #VALUE! N/A | N/A |
| 2 N/A N/A N/A N/A #VALUE! N/A | N/A |
| 3 N/A N/A N/A N/A #VALUE! N/A | N/A |
| Average Drops 2, 3 #VALUE! | #VALUE! |
| Overall gmax (3 Locations, Three Drons Each Location in Same Spot) | |

Overall gmax (3 Locations, Three Drops Each Location in Same Spot) Overall HIC (3 Locations, Three Drops Each Location in Same Spot) 135 901

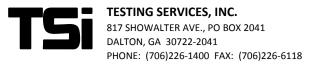


Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around Playground Equipment

| Turf ID | ATS Turf 69 | Əsl/st | | Тор | | | |
|---------------|---------------|------------------------|----------|-------------------|---------------------|--------|-------------|
| Infill | None | | | | | | |
| Underlayment: | 4 oz Filter l | Fabric | | | | | |
| Grid: | AirDrain | | | | | | |
| Underlayment: | | Green Foam | | | | | |
| Sub Base: | Concrete | C iccii i ouiii | | Botto | m | | |
| Sub Buse. | Concrete | | | • 50110 | | | |
| Conditions: | Cold | Min 8hrs @ | 20°F | Report #: | 62296 | Page # | 3 of 4 |
| Date Tested: | 10-Sep-14 | - | | Fall Height: | 9' | Lab # | 2650-1155-1 |
| | | | | | | | |
| Drop Area: | Center of A | Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 24.0 | 6 | 9' | 8.95 | 123 | 799 |
| | 2 | 24.0 | 7 | 9' | 8.95 | 131 | 858 |
| | 3 | 24.0 | 5 | 9' | 8.95 | 136 | 885 |
| | Average | | | Drops 2, 3 | | 134 | 872 |
| | Quadrant o | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 24.0 | 0 | 9' | 8.95 | 133 | 908 |
| | 2 | 24.0 | 3 | 9' | 8.95 | 140 | 972 |
| | 3 | 24.0 | 5 | 9' | 8.95 | 147 | 1020 |
| | Average | | | Drops 2, 3 | | 144 | 996 |
| | Quadrant o | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 24.0 | 7 | 9' | 8.95 | 129 | 859 |
| | 2 | 24.0 | 3 | 9' | 8.95 | 144 | 990 |
| | 3 | 24.0 | 2 | 9' | 8.95 | 150 | 1027 |
| | Average | | | Drops 2, 3 | | 147 | 1009 |
| | Quadrant o | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 23.9 | 7 | 9' | 8.88 | 117 | 726 |
| | 2 | 24.0 | 3 | 9' | 8.95 | 124 | 786 |
| | 3 | 24.0 | 2 | 9' | 8.95 | 132 | 848 |
| | Average | | | Drops 2, 3 | | 128 | 817 |
| | | | | | | | |
| | Overall gm | ax (4 Locatio | ns, Thre | e Drops Each Loca | ation in Same Spo | t) | 138 |

Overall gmax (4 Locations, Three Drops Each Location in Same Spot) Overall HIC (4 Locations, Three Drops Each Location in Same Spot)

923



Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around Playground Equipment

| Turf ID | ATS Turf 6 | 9sl/st | | Тор | | | |
|---------------|-------------|-----------------|--------|----------------|---------------------|----------------|----------------|
| Infill | None | | | | | | |
| Underlayment: | 4 oz Filter | Fabric | | | | | |
| Grid: | AirDrain | | | | | | |
| Underlayment: | 2 1/8" Pol | yGreen Foam | | | | | |
| Sub Base: | Concrete | | | Botto | m | | |
| | | | | • | | | |
| Conditions: | Hot | Min 8 hrs @ | 2120°F | Report #: | 62197 | Page # | 4 of 4 |
| Date Tested: | 11-Sep-14 | | | Fall Height: | 9' | Lab # | 2650-1155-1 |
| | | | | | | | |
| Drop Area: | Center of | Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 24.0 | 7 | 9' | 8.95 | 126 | 815 |
| | 2 | 24.0 | 6 | 9' | 8.95 | 133 | 868 |
| | 3 | 24.1 | 3 | 9' | 9.03 | 129 | 833 |
| | Average | | | Drops 2, 3 | | 131 | 851 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 24.0 | 5 | 9' | 8.95 | 130 | 859 |
| | 2 | 24.0 | 3 | 9' | 8.95 | 134 | 882 |
| | 3 | 24.0 | 0 | 9' | 8.95 | 135 | 895 |
| | Average | | | Drops 2, 3 | | 135 | 889 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 23.9 | 8 | 9' | 8.88 | 120 | 766 |
| | 2 | 24.0 | 8 | 9' | 8.95 | 131 | 862 |
| | 3 | 23.9 | 1 | 9' | 8.88 | 129 | 851 |
| | Average | | | Drops 2, 3 | | 130 | 857 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | N/A | N/A | N/A | #VALUE! | N/A | N/A |
| | 2 | N/A | N/A | N/A | #VALUE! | N/A | N/A |
| | 3 | N/A | N/A | N/A | #VALUE! | N/A | N/A |
| | Average | | | Drops 2, 3 | | #VALUE! | #VALUE! |

Overall gmax (4 Locations, Three Drops Each Location in Same Spot) Overall HIC (4 Locations, Three Drops Each Location in Same Spot) 132 866

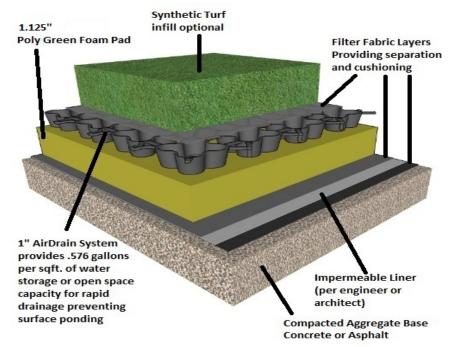
AirDrain_What drains better than Air?

Playground Drainage for 6 ft Fall Height No Infill Solution

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.

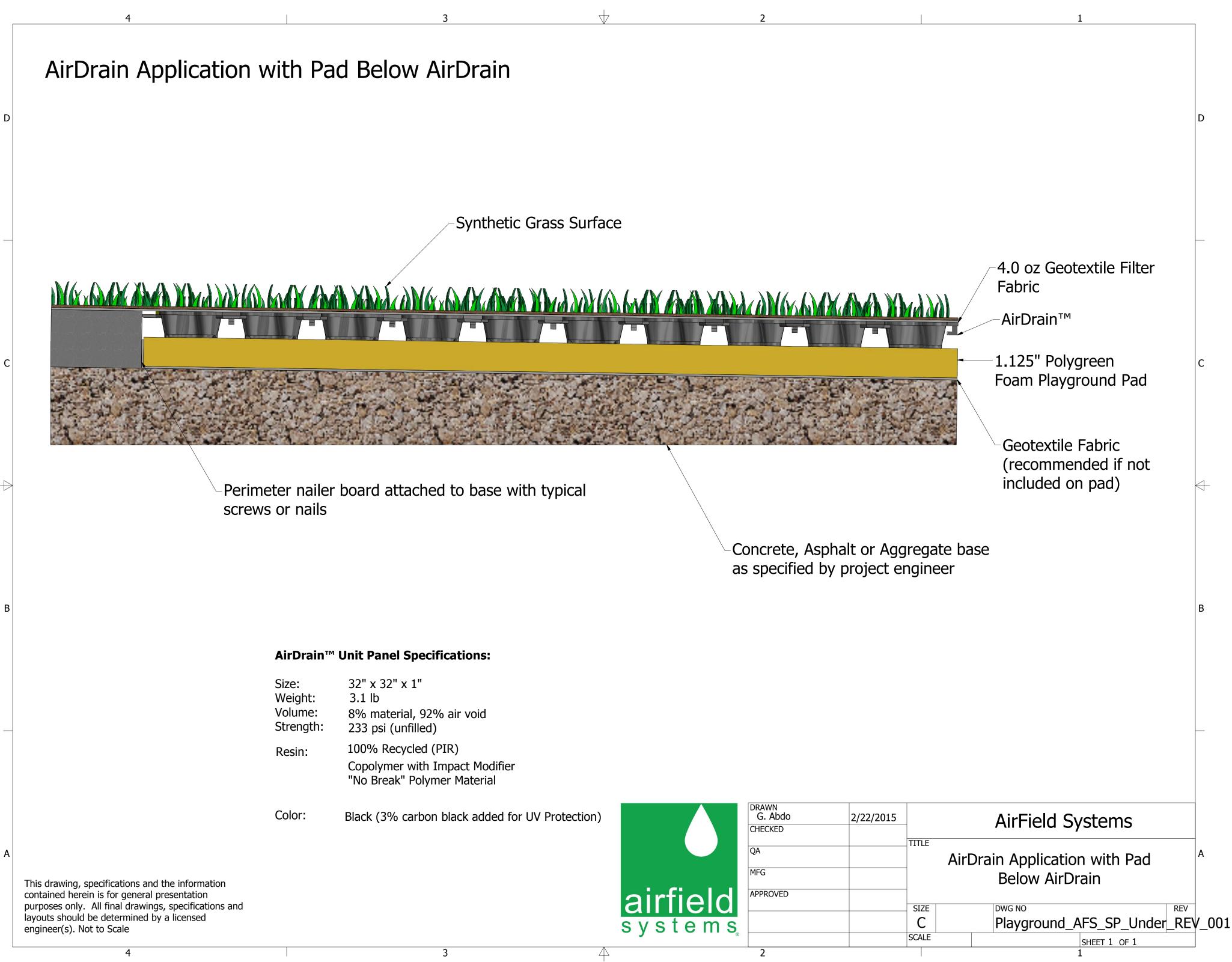
For playgrounds constructed with AirDrain, the grid is installed on top of a 1.125" poly green foam pad which is placed directly onto the properly prepared subbase of concrete, asphalt or compacted aggregate. This creates a 1" air void and allows for maximum drainage.

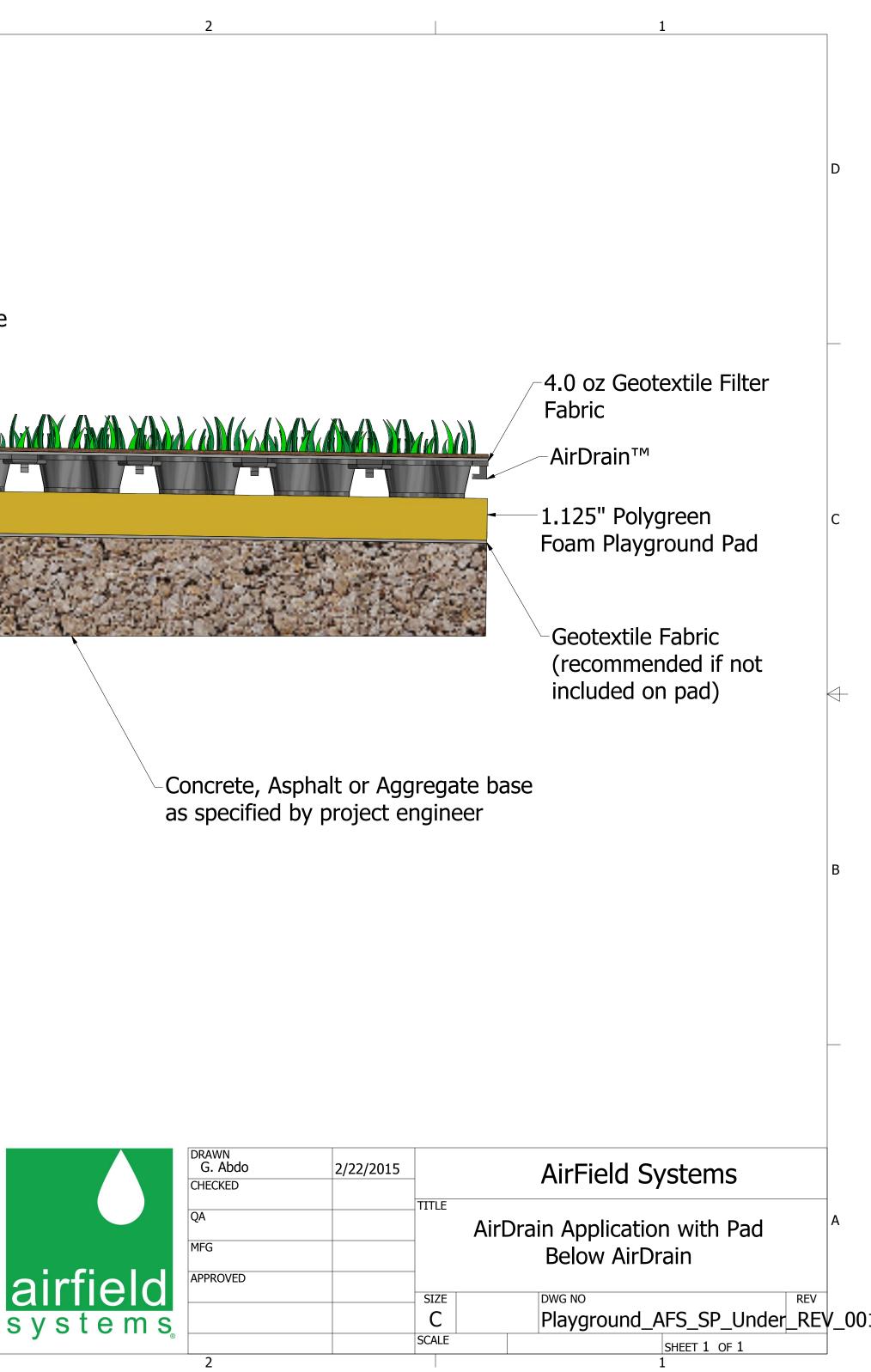


Benefits of an AirDrain playground drainage system include:

- 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

*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.







TESTING SERVICES, INC. 817 SHOWALTER AVE., PO BOX 2041 DALTON, GA 30722-2041 PHONE: (706)226-1400 FAX: (706)226-6118



TEST REPORT

| CLIENT: | Airfield Systems | REPORT NUMBER: | 62531 |
|------------------------|--|---|---|
| | 8028 North May Avenue Suite 201 | LAB TEST NUMBER: | 2669-1901 |
| | Oklahoma City, OK 73120 | DATE: | December 9, 2014 |
| REQUESTED BY: | Michael Bean | PAGE: | 1 of 2 |
| | | | |
| Turf Description | ATS Turf 69sl/st | | Тор |
| Infill System | None | | |
| Underlayment | 4 oz Filter Fabric | | |
| Grid: | AirDrain | | |
| Pad System: | 1 1/8" Polygreen Foam | | Dattern |
| Sub Base | Concrete | | Bottom |
| Tested Dimension: | 3' X 3' | | |
| Impact Location: | Various | | |
| Date of Receipt: | November 18, 2014 | | |
| Testing Period: | December 3-8, 2014 | | |
| Authorization: | Micheal Bean | | |
| Test Procedure: | procedures outlined in AST | | g Properties in Accordance with the ication for Impact Attenuation of ent |
| <u>Missle:</u> | Hemispherical (Triaxial Acc | celerometer): Total Drop Asser | mbly Weight (46g) 10 lbs |
| Test Equipment: | Triax 2000 Surface Impactor Date of Last Calibration: 4 | or //16/2014 by Alpha Automation | (Valid thru 5/16/2015) |
| Sample Pre-Condition | on: 50±10 RH, 70F±5F for a m | ninimum of 24 hrs piror to testir | ng |
| Temperature: | | Aaximum Drop Height That G of 200 or Less and A HIC of 1 | |
| Ambient, 61.7°F 38% | RH | 6' | |
| Hot, 120°F (49°C) | | 6' | |
| Cold, 25°F (-6°C) | | 6' | |
| Critical Fall Height (| CFH): | 6' | |

Prepared and signed by:



Digitally signed by Erle Miles, Jr. VP DN: cn=Erle Miles, Jr. VP, o=Testing Services Inc., ou, email=tsioffice@windstream.net, c=US Date: 2014.12.09 11:43:36 -05'00'

Erle Miles, Jr. VP Testing Services Inc.



Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around Playground Equipment

| Turf ID | ATC T | O ol /ot | | Tan | | | |
|---------------|--|-----------------|----------|-------------------|---------------------|--------|-----------|
| | ATS Turf 6 | 951/51 | | Тор | | | |
| Infill | None | | | | | | |
| Underlayment: | 4 oz Filter | Fabric | | | | | |
| Grid: | AirDrain | | | | | | |
| Underlayment: | 1 1/8" Pol | yGreen Foam | | | | | |
| Sub Base: | Concrete | | | Botto | m | | |
| | | | | · | | | |
| Conditions: | Ambient, 6 | 53°F 47% RH | | Report #: | 62531 | Page # | 2 of 4 |
| Date Tested: | 3-Dec-14 | | | Fall Height: | 6' | Lab # | 2669-1901 |
| | | | | | | | |
| Drop Area: | Center of | Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 4 | 6' | 5.97 | 135 | 705 |
| | 2 | 19.6 | 3 | 6' | 5.97 | 158 | 872 |
| | 3 | 19.7 | 4 | 6' | 6.03 | 170 | 970 |
| | Average | | | Drops 2, 3 | | 164 | 921 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 9 | 6' | 5.97 | 130 | 610 |
| | 2 | 19.6 | 5 | 6' | 5.97 | 158 | 825 |
| | 3 | 19.6 | 2 | 6' | 5.97 | 161 | 881 |
| | Average | | | Drops 2, 3 | | 160 | 853 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 0 | 6' | 5.97 | 145 | 772 |
| | 2 | 19.7 | 2 | 6' | 6.03 | 149 | 804 |
| | 3 | 19.6 | 3 | 6' | 5.97 | 154 | 862 |
| | Average | | | Drops 2, 3 | | 152 | 833 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 8.0 | 6' | 5.97 | 137 | 707 |
| | 2 | 19.7 | 5.0 | 6' | 6.03 | 161 | 884 |
| | 3 | 19.6 | 6.0 | 6' | 5.97 | 163 | 894 |
| | Average | | | Drops 2, 3 | | 162 | 889 |
| | | | | • * | | | |
| | Overall gm | nax (3 Location | ns, Thre | e Drops Each Loca | ntion in Same Spo | t) | 160 |
| | - | - | | • | | , | 874 |
| | Overall HIC (3 Locations, Three Drops Each Location in Same Spot)874 | | | | | | |



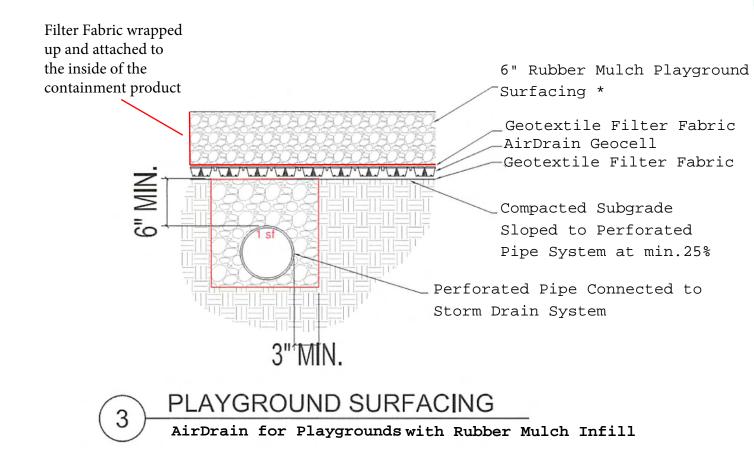
Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around Playground Equipment

| Turf ID | ۸Τς Τε Ο | Ocl/ct | | Tair | | | |
|---------------|---|-----------------|----------|-------------------|---------------------|----------|-----------|
| | ATS Turf 6 | 951/51 | | Тор | | | |
| Infill | None | Falssia | | | | | |
| Underlayment: | 4 oz Filter | Fabric | | | | | |
| Grid: | AirDrain | | | | | | |
| Underlayment: | | yGreen Foam | | | | | |
| Sub Base: | Concrete | | | Botto | m | | |
| | . | | 2005 | 5 | 69594 | . | 2 (4 |
| Conditions: | Cold | Min 8hrs @ | 20°F | Report #: | 62531 | Page # | 3 of 4 |
| Date Tested: | 4-Dec-14 | | | Fall Height: | 6' | Lab # | 2669-1901 |
| Drop Area: | Center of | Assembly | | | | | |
| Drop Area. | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 5 | 6' | 5.97 | 163 | 908 |
| | 2 | 19.7 | 0 | 6' | 6.03 | 169 | 914 |
| | 3 | 19.6 | 7 | 6' | 5.97 | 181 | 1012 |
| | Average | 17.0 | 1 | Drops 2, 3 | 5.77 | 175 | 963 |
| | - | of Assembly | | 51055270 | | 175 | 700 |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.5 | 1 | 6' | 5.91 | 132 | 693 |
| | 2 | 19.6 | 5 | 6' | 5.97 | 142 | 757 |
| | 3 | 19.6 | 6 | 6' | 5.97 | 160 | 852 |
| | Average | | | Drops 2, 3 | | 151 | 805 |
| | - | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.5 | 5 | 6' | 5.91 | 145 | 775 |
| | 2 | 19.6 | 2 | 6' | 5.97 | 165 | 930 |
| | 3 | 19.7 | 1 | 6' | 6.03 | 162 | 882 |
| | Average | | | Drops 2, 3 | | 164 | 906 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.5 | 4 | 6' | 5.91 | 140 | 764 |
| | 2 | 19.6 | 4 | 6' | 5.97 | 162 | 917 |
| | 3 | 19.5 | 8 | 6' | 5.91 | 170 | 964 |
| | Average | | | Drops 2, 3 | | 166 | 941 |
| | Overall gm | ax (4 Locatio | ns. Thre | e Drops Each Loca | tion in Same Spot | t) | 164 |
| | - | - | | • | | -, | 904 |
| | Overall HIC (4 Locations, Three Drops Each Location in Same Spot) 904 | | | | | | |



Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around Playground Equipment

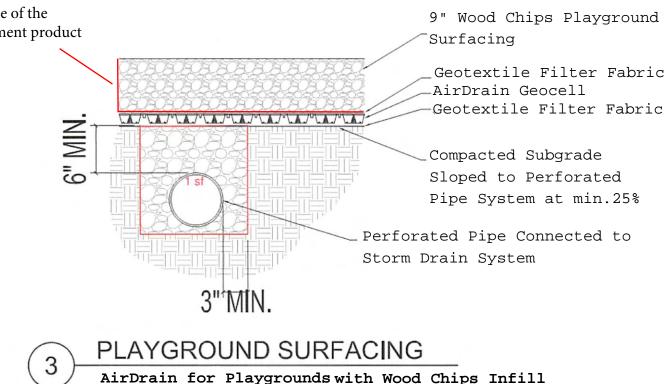
| Turf ID | ATC Turf C | Ocl/ct | | Top | | | |
|---------------|-------------|-----------------|----------|-------------------|---------------------|----------|-----------|
| Infill | ATS Turf 6 | J21/21 | | Тор | | | |
| | None | F . I | | | | | |
| Underlayment: | 4 oz Filter | Fabric | | | | | |
| Grid: | AirDrain | | | | | | |
| Underlayment: | | yGreen Foam | | | | | |
| Sub Base: | Concrete | | | Botto | m | | |
| - 10.1 | | | | | | | |
| Conditions: | Hot | Min 8 hrs @ | 0 120°F | Report #: | 62531 | Page # | 4 of 4 |
| Date Tested: | 8-Dec-14 | | | Fall Height: | 6' | Lab # | 2669-1901 |
| 5 | . | | | | | | |
| Drop Area: | Center of A | | | | | <u> </u> | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 4 | 6' | 5.97 | 127 | 685 |
| | 2 | 19.6 | 5 | 6' | 5.97 | 130 | 687 |
| | 3 | 19.6 | 6 | 6' | 5.97 | 136 | 743 |
| | Average | | | Drops 2, 3 | | 133 | 715 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 6 | 6' | 5.97 | 131 | 699 |
| | 2 | 19.7 | 4 | 6' | 6.03 | 142 | 768 |
| | 3 | 19.6 | 3 | 6' | 5.97 | 139 | 739 |
| | Average | | | Drops 2, 3 | | 141 | 754 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 7 | 6' | 5.97 | 142 | 784 |
| | 2 | 19.7 | 6 | 6' | 6.03 | 129 | 693 |
| | 3 | 19.6 | 4 | 6' | 5.97 | 138 | 762 |
| | Average | | | Drops 2, 3 | | 134 | 728 |
| | Quadrant | of Assembly | | | | | |
| | Drop # | Velocity ft/sec | Angle | Drop Ht/Actual | Drop Ht/Theoretical | Gmax | HIC |
| | 1 | 19.6 | 3 | 6' | 5.97 | 132 | 685 |
| | 2 | 19.7 | 4 | 6' | 6.03 | 137 | 729 |
| | 3 | 19.7 | 3 | 6' | 6.03 | 139 | 756 |
| | Average | | | Drops 2, 3 | | 138 | 743 |
| | | | | | | | |
| | Overall gm | nax (4 Location | ns, Thre | e Drops Each Loca | ition in Same Spot | t) | 137 |
| | Overall HI | C (4 Locations | , Three | Drops Each Locati | on in Same Spot) | | 735 |



** Compacted at 3" and Again at 6" during installation

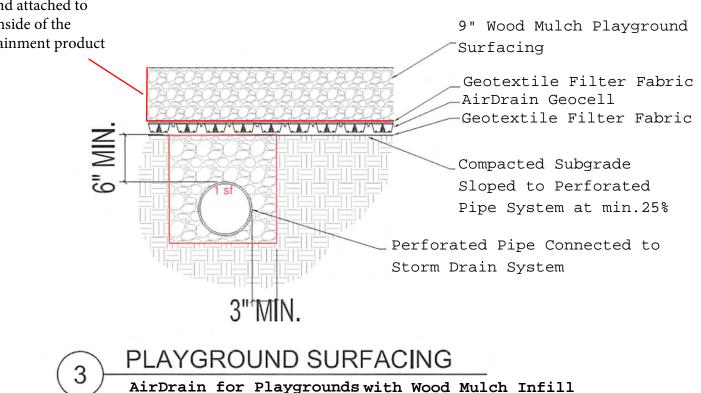
Unit Panel Specifications: Size: 32" x 32" x 1" Weight: 3.1 lb Strength: 233 psi (unfilled) 6747 psi (filled) Resin: 100% Recycled (PIR) Copolymer with Impact Modifier "No Break" Polymer Material Color: Black (3% carbon black added for UV Protection)

AirField Systems, LLC 8028 N May Ave, Suite 201 Oklahoma City, OK 73120 www.AirFieldsystems.com (405)359-3375 Filter Fabric wrapped up and attached to the inside of the containment product



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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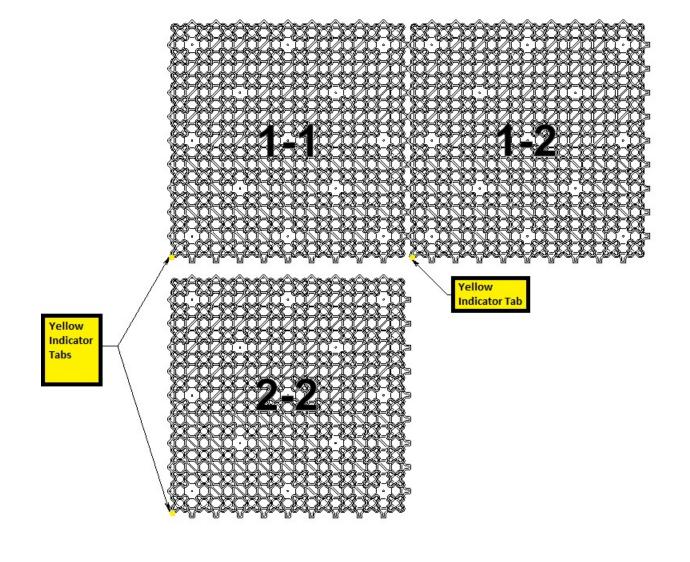
AirField Systems, LLC 8028 N May Ave, Suite 201 Oklahoma City, OK 73120 www.AirFieldsystems.com (405)359 - 3375

Proper Sequencing and Orientation of AirDrain GeoCell Panels for Rapid Installation

Pallet Staging: AirDrain pallets cover approximately 798sqft. per pallet and should be staged accordingly within the installation area so that you minimize the amount of time to stage the AirDrain grid along the install lines across the project. Typically placing the AirDrain every 65 feet across and 15-20 feet back from each other. (Call AirField with questions that you might have about proper staging and installation.)

All Installations must start in the Top Left Corner of the Field and work Left to Right to be installed properly.

1. Orientate the AirDrain GeoCell materials with the integral indicator tab to the panel's bottom left corner (painted yellow). Install the AirDrain units by placing units with the connectors and platforms up creating a flat surface for the profile above. If the male connectors do not fall or drop into the female connectors then the orientation is incorrect, please call AirField Systems Immediately at 405-359-3775.



- 2. Install the AirDrain panels across the field in a rowed pattern. Staggering of rows will allow for multiple row completion by a multi-manned crew.
- 3. Once the first row has progressed across the project, start with a second row. Have a person staging the panels in groups of three snapped together along the row. The crew can then install the left side of the panel while elevating slightly the top portion (so the male and female connectors don't touch each other). Once the left side has been snapped with a pull along the row direction, the top portion should fall into place and with a bottom vertical pull holding the inside of parts 1 & 3 snap all three parts in place.



- 4. AirDrain panels can be shaped to individual field areas as needed with appropriate cutting device. If a typical field is installed correctly there should only be two sides that would need to be trimmed.
 - A. If only a few parts need to be trimmed, use tin snips.
 - B. If many parts require trimming, set up a table and use a circular saw with a no melt, plastic cutting saw blade.

Visit <u>AirField Systems Flickr page</u> to watch a video of a 74,000 sq ft project for Chesapeake Energy illustrating a 3 man crew installation.

DISCLAIMER: The preceding and following drawings and/or general installation guidelines are provided only to show a concept design for installation and are not instructions for any particular installation. These drawings and general instructions are not complete and are provided only to assist a licensed Geo-Technical Engineer, a Landscape Architect and/or Civil Engineer in preparing actual construction and installation plans. These drawings and instructions must be reviewed by a licensed Geo-Technical Engineer, a Landscape Architect and/or Civil Engineer in preparing actual construction and installation plans. These drawings and instructions must be reviewed by a licensed Geo-Technical Engineer, a Landscape Architect and/or Civil Engineer and adapted to the condition of a particular installation site and to comply with all state and local requirements for each installation site. THESE DRAWINGS AND/OR GENERAL INSTRUCTIONS DO NOT MODIFY OR SUPPLEMENT ANY EXPRESS OR IMPLIED WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IF APPLICABLE RELATING TO THE PRODUCT.

| | General Information | | | | | | | | |
|---------------------------------|--|--|-------------|--|--|--|--|--|--|
| General | | | | | | | | | |
| Construction | Injection Molded Copolymer | | | | | | | | |
| Composition | Copolymer Polypropylene Using an Impact Modifier | | | | | | | | |
| Dimensions | 31.784" x 31.880" x 1.000" (7.03 sq ft.) | 31.784" x 31.880" x 1.000" (7.03 sq ft.) | | | | | | | |
| Unit Weight | 3.1 lbs. | | | | | | | | |
| Material Resin Pellets | | | | | | | | | |
| Shipping | | | | | | | | | |
| Parts Per Pallet | 114 | | | | | | | | |
| Pallet Dimensions | 33" x 33" x 48" | | | | | | | | |
| Pallet Weight | 390 lbs. | | | | | | | | |
| Area Coverage Per Pallet | 798 sq. ft. | | | | | | | | |
| Pallets Per Trailer | 114 (3 wide x 2 tall x 19 deep) | | | | | | | | |
| Area Covered Per Trailer | 90,972 sq. ft. | | | | | | | | |
| | ASTM and ISO Prope | erties ¹ | | | | | | | |
| Physical | | Nominal Value | Test Method | | | | | | |
| Specific Gravity | | 0.940 | ASTM D792 | | | | | | |
| Melt Mass-Flow Rate (230°C/2 | .16 kg) | 20 g/10 min | ASTM D1238 | | | | | | |
| Mechanical | | Nominal Value | Test Method | | | | | | |
| Density | | 57.490 lb/ft ³ | ASTM D1505 | | | | | | |
| Tensile Strength (Yield, 73°F) | | 2,145 psi | ASTM D638 | | | | | | |
| Tensile Elongation (Yield, 73°F | ·) | 16% | ASTM D638 | | | | | | |
| Flexural Modulus (73°F) | | 100,175 psi | ASTM D790 | | | | | | |
| Compression Strength (73°F) | | 233 psi unfilled | ASTM D6254 | | | | | | |
| Impact | | Nominal Value | Test Method | | | | | | |
| Notched Izod Impact (73°F, 0.1 | 25 in) | | ASTM D256 | | | | | | |
| Thermal | | Nominal Value | Test Method | | | | | | |
| Deflection Temperature Under | Load 264 psi, Unannealed | 160°F | ASTM D648 | | | | | | |
| | Expansion/Contraction | Index ¹ | | | | | | | |
| Temperature | Humidity | Length | Width | | | | | | |
| 100°F | 98% | 31.881" | 31.817" | | | | | | |
| -5°F | 0% | 31.765" | 31.713" | | | | | | |
| Change | | .116" | .104" | | | | | | |
| Joint Expansion/Contraction Ca | pacity | .420" | .572" | | | | | | |
| Safety Factor | | 362% | 550% | | | | | | |
| | Examples of Usaş | ge | | | | | | | |
| Application | Required Strength | Safety | Factor | | | | | | |
| Auto | 40 psi | x 1 | 68 | | | | | | |
| Truck | 110 psi | x 6 | 1 | | | | | | |
| | | | | | | | | | |

¹ Independent laboratory testing conducted by TRI/Environmental, Inc., TSI/Testing Services, Inc. and Wassenaar.

100% Post Manufactured Content



Recycled

The **AirDrain** GeoGrid is made of 100% post-manufactured material, so you can feel good about helping the planet <u>while adding valuable LEED</u> <u>Points</u> to your project. We also add an impact modifier for incredible strength and superior performance in extreme heat and cold - on top of the already durable **AirDrain** design.

AirDrain Co-Polymer with an Impact Modifier Performance and Temperature Durability

Attached you will find the specification of the resin used to produce both the 32 x 32 and the 32 x 18 Geo cells. This material is a co-polymer polypropylene that is 100% recycled resin. In order to be able to produce a consistent recycled resin a PIR (post industrial resin) is used for the base resin. This is the only way to produce a consistent material as opposed to a PCR (post consumer resin) which is dependent on the consumer to supply a consistent material. Using the PIR as a base resin 3% carbon black is added to insure good UV stabilization and metallocene (an ethylene base material) is used as an impact modifier.

Impact Modifier

The impact modifier is added in an amount to achieve a 10.0 Notched Izod Impact which comfortably qualifies this material as a NO BREAK material (4.0 and greater are normally considered no break material). The **AirDrain** resin offers an advantage over many ethylene and HDPE products since the **AirDrain** resin is often superior when it comes to pliability, warping and internal stress related issues. Referring to the attached specification sheet you will notice that all testing is done to specific ASTM Standards.

Resin Blends

AirDrain's blend of resins gives it the ability to perform in extreme temperatures. **AirDrain** does not need a temperature above 50 degrees Fahrenheit to be installed or warmed in the sun to be pliable on site for install. In addition, **AirDrain's** unique resin blend also helps prevent breakage and cracking in extreme temperatures. Giving it the ability to withstand repeated freeze thaw cycles.

Airfield posts its resin content and performance values with ASTM test methods and guide lines to measure the properties of our grid.