



SOLUTIONS MORE SOLID THAN ROCK

*The Smarter,
Greener Alternative
to Pipe and Stone*



AWD
AMERICAN WICK DRAIN
Prefabricated Drainage Products



www.americanwick.com

Focusing Our Sites On Gaining Ground



Why AWD

AWD arms clients with the tools to gain ground in the collection and re-direction of water, leveraging decades of expertise in drainage solutions for various construction applications. We offer a clean, modern system and an innovative product line that combines geotextiles with specially designed drainage cores. From structural walls to perimeter drains, landscape projects to athletic fields, AWD is the trusted name working below the surface to help ensure that your next project stays dry, solid and secure.

Architects, engineers and owners are always looking for ways to reduce initial costs and extend the service life of construction projects. The desired result is a sustainable, high performance product at an affordable price. AWD products provide solutions to help you meet your objectives.



Civil Site & Structure
SOLUTIONS



Transportation
SOLUTIONS

Soil Consolidation
SOLUTIONS



Commercial Building
SOLUTIONS

Sustainable
SOLUTIONS



Athletic Field
SOLUTIONS

Landscape
SOLUTIONS



Residential
SOLUTIONS

AWD Prefabricated Drains



ENGINEERED PRODUCTS

AWD prefabricated drains provide a specific, engineered response to a particular drainage problem - how to collect and redirect water away from a structure or site.

AWD manufactures a full line of products to address drainage requirements for a broad range of construction applications. Our prefabricated drains consist of formed three dimensional polymeric cores that are combined with a geotextile filter fabric. The core offers strength and provides a secure flow channel for collected water. The filter fabric retains soil particles while allowing water to freely enter the drainage core. AWD's sheet, strip, combination and wick drains each provide a specific engineered response to your drainage problem.

AWD Product Classifications



SHEET DRAINS



STRIP DRAINS



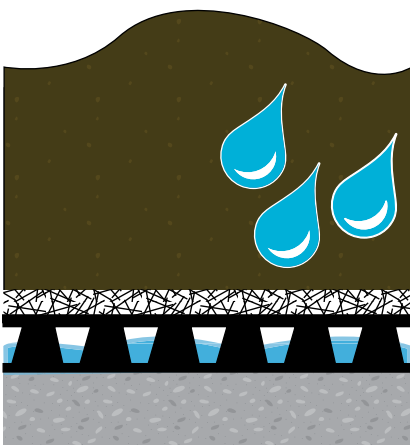
WICK DRAINS



COMBINATION DRAINS

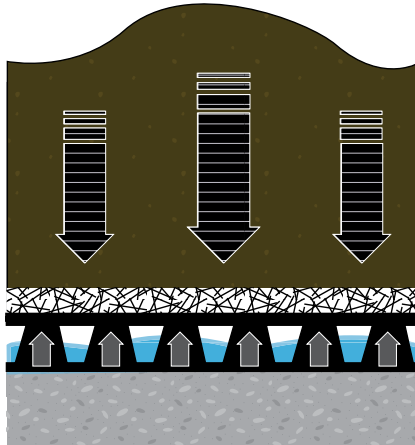
PREDICTABLE PERFORMANCE

Unlike pipe and stone systems, AWD products are manufactured to meet specific physical and mechanical properties that are verified by independent testing laboratories per ASTM standards, ensuring your project will "flow" according to plan. Critical design considerations typically include three basic physical properties - water flow rate, core compressive strength and the fabrics ability to filter soil particles.



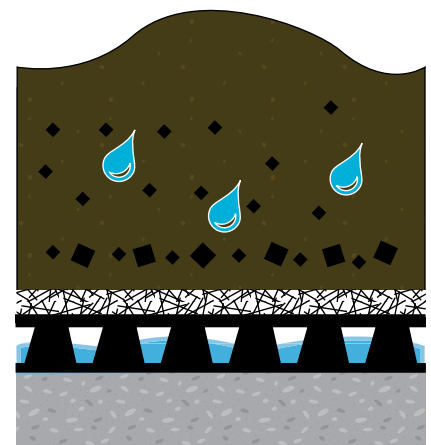
WATER FLOW RATE:

The volume of the fluid that passes through the formed core in a specific amount of time



CORE COMPRESSION:

The maximum compressive stress the formed core can withstand without failure.



FILTER FABRIC:

The mechanical separation of soil particles from the water that enters the core.



Pipe vs. AWD

Pipe and Stone Has Met Its Match

Now It's Time for You to Meet AWD

WHAT:: AWD prefabricated drainage products.

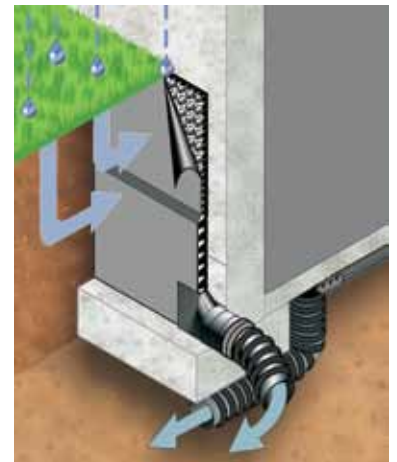
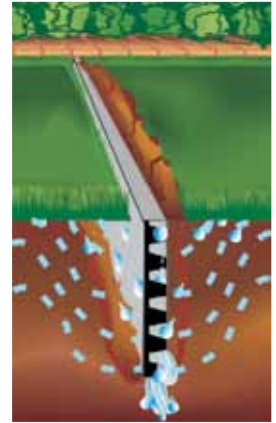
Crafted with geotextile filter fabrics and specially designed drainage cores – a more earth-friendly approach to drainage than traditional pipe and stone systems. Fewer materials are needed to deliver more efficient results.

WHY:: Better performance at a lower cost.

AWD prefabricated drains have a minimum of 12 times more open area to allow for water collection than traditional pipe and stone systems. AWD products eliminate the growing expense of transporting stone, and are lightweight, making them easier to handle and install. No heavy equipment is required, saving you time and money in equipment, materials and manpower. AWD systems are often less than half the installed cost of pipe and stone systems.

WHERE:: Sites & Structures...look for the pipe & stone.

AWD's products are engineered to address strength, flow and filtration issues for a variety of structural and site drainage applications. From reducing hydrostatic pressure against concrete walls to draining fields and lawns, AWD products offer the peace of mind obtained with consistent, predictable performance - the ultimate value for any application.



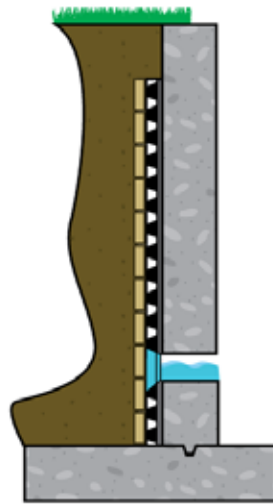
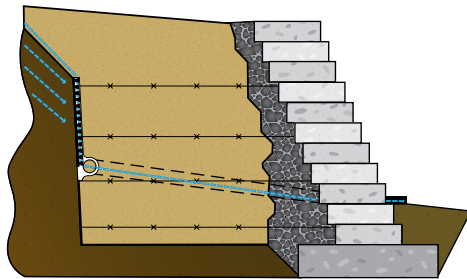
AWD ADVANTAGES

- LOW INSTALLED COST
- EASY TO HANDLE & INSTALL
- REDUCED EXCAVATION COSTS
- STRONG & DURABLE
- SIMPLE INSPECTION
- PREDICTABLE PERFORMANCE
- EARTH FRIENDLY PRODUCTS
- HIGH COLLECTION & FLOW CAPACITY



Civil Site & Structure SOLUTIONS

SITEDRAIN prefabricated drainage products provide engineered solutions for unique soil conditions. Our products are available with a variety of filter fabric options based on your specific site conditions, including those meeting AASHTO Geotextile Class 1, 2 and 3 requirements for sub-surface drainage geotextiles.



SITEDRAIN[™]
Prefabricated Sheet, Strip & Combination Drains

- Embankments
- Tunnel Drains
- Cut-off Drains
- Under Slabs
- Landfill Caps
- Perimeter Drains
- Lagging / Shoring Walls
- Pond & Channel Liners



| MECHANICAL PROPERTIES | SHEET & DS SERIES | | | CHIMNEY SERIES | | STRIP SERIES | HQ SERIES |
|--|-------------------|--------------|--------|-----------------|--------|------------------|-----------------|
| | 90 | 180* | 450 | C-90 | C-180 | 6000 & 9000 | HQS SERIES |
| Core Thickness | 1/4" | 7/16" | 1/4" | 1/4" | 7/16" | 1" | 7/16" - 1" |
| Compression (psf) | 9,000 | 18,000 | 45,000 | 9,000 | 18,000 | 6,000 OR 9,000 | 9,000 |
| Flow (gpm) | 13 | 22 | 14 | 13 | 22 | 21 | 50 |
| Recycled Content | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Roll Width | 4' | 4', 6' or 8' | 4' | 12", 16" & 24" | | 6" - 36" | 12", 18" & 24" |
| Roll Length | 50' | 50' | 50' | 200' | | 150' & 500' | 50' |
| AASHTO M 288-06 Survivability Options | Class 1, 2 or 3 | | | Class 1, 2 or 3 | | Class 1, 2, or 3 | Class 1, 2 or 3 |

*SITEDRAIN SHEET 180 SERIES PRODUCTS ARE AVAILABLE IN 4', 6' or 8' ROLL WIDTHS.



Transportation SOLUTIONS



SITEDRAIN™

Prefabricated Sheet, Strip & Combination Drains



America continues to invest billions of dollars annually for infrastructure projects. Engineers are constantly searching for ways to improve highway and bridge designs to achieve better performance at a lower cost. Extensive studies have shown that excessive water can cause accelerated deterioration of pavement systems and create hydrostatic pressure against concrete structures. AWD offers a complete line of prefabricated sheet, strip and combination drains that are engineered to address these design concerns at a significant cost savings over aggregate designs.

- Bridge Abutments
- Highway Edge Drains
- Soil Consolidation
- Concrete Lined Channels



Soil Consolidation SOLUTIONS

Vertical & Horizontal - It's Settled!

Historically, the design of structures on soft, compressible soils (clays) has created problems for civil engineers. Construction without some sort of soil treatment is usually impractical due to unpredictable long-term settlement. Simple surcharging as a soil consolidation method can take many years.

Soil consolidation using prefabricated vertical drains can reduce settlement time from years to months. Most settlement can occur during construction, keeping post-settlement construction settlements to a minimum.

Vertical drains require a drainage path to receive and transport flow to designated areas. Strip drains provide a cost effective alternative to granular drainage blankets with over ten times the flow capacity of a 36" granular blanket.



WICK DRAINS



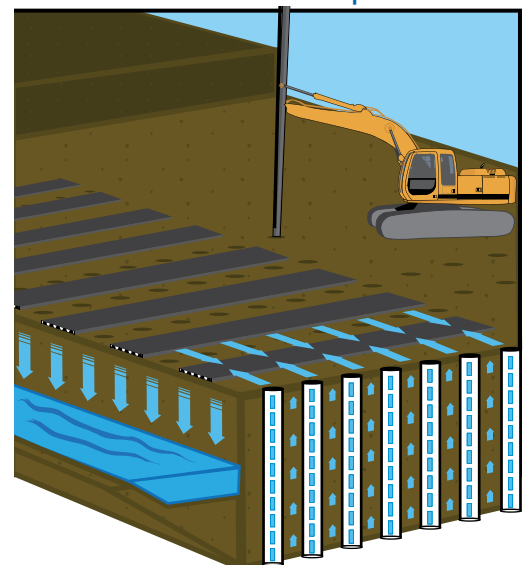
STRIP DRAINS

- Dams
- Mining Wastes
- Bridge Abutments
- Bridge Overpasses
- Seaports & Airports
- Railway Embankments
- Highway Embankments



AMERDRAIN®-W

Prefabricated Wick & Strip Drains





Landscape SOLUTIONS

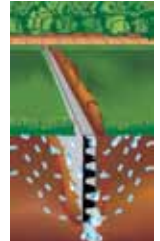


- Playgrounds
- Retaining Walls
- Curb & Edge Drains
- Brick & Stone Patios
- Lawn & Natural Turfs
- French & Trench Drains



SITEDRAIN™

Prefabricated Sheet, Strip & Combination Drains



Why Prefab Drain is Better

| | FRENCH DRAIN | PIPE DRAIN | STRIP DRAIN |
|---------------|---------------|-------------|------------------|
| Pipe | None required | 4" Minimum | Not required |
| Fabric | Yes | Yes | Already on drain |
| Stone or sand | Yes | Yes | Not required |
| Backhoe | Yes | Yes | Not required |
| Trencher | No | No | 2" Trench |
| Dump truck | Yes | Yes | Not required |
| Laborers | 3 Minimum | 3 Minimum | 1 |
| Trench width | 12" Minimum | 12" Minimum | 1.5" Minimum |

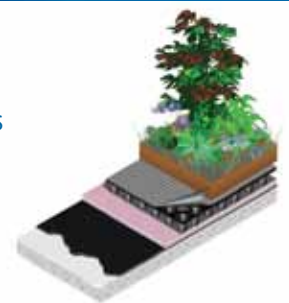
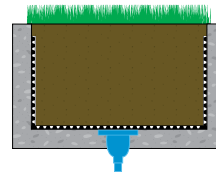


Sustainable SOLUTIONS



AMERGREEN™

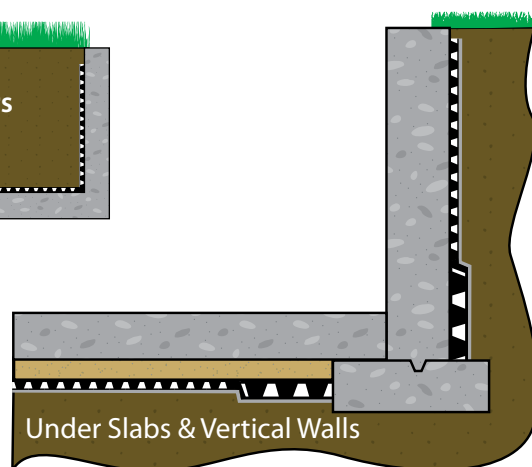
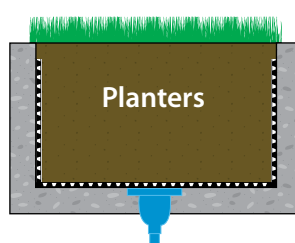
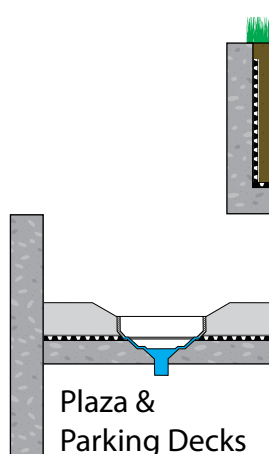
Prefabricated Green Roof & Planter Drains



At AWD, we understand that sometimes less can be more. Our Amergreen prefabricated green roof and planter drains are designed with all the essential drainage elements needed for a successful roof garden. We offer intensive and extensive solutions that provide drainage, water storage, aeration, membrane protection and root barrier protection in an easy to install, lightweight, long-lasting and cost effective package. AWD makes going green simple and affordable. If you need a full warranty system, AWD partners with several industry leading professionals.



Commercial Building SOLUTIONS



Drainage & Waterproofing

Drainage plays a critical role in waterproofing applications. Native soil is typically comprised of multiple layers that determine the ability of water to move through the soil. Low permeability soil layers can trap water and create hydrostatic pressure against below grade walls. Over time, the water may find and exploit imperfections in the waterproofing membrane and ultimately penetrate through pinholes and weak spots causing leaks requiring expensive repairs. AWD prefabricated drains enhance waterproofing systems. By design, we protect the membrane and provide an uninterrupted flow path to bypass the problem soil layers.

- Low Installed Cost
- Green & Sustainable
- Easy To Handle & Install
- Reduced Excavation Costs
- Enhances & Protects Waterproofing



AMERDRAIN®
Prefabricated Sheet & Combination Drains





Residential SOLUTIONS

It's All About Collection Capacity

The most important characteristic of any subsurface drainage system is its ability to collect water from the surrounding soil. Pipe and stone systems have major limitations when compared to prefabricated drain systems. The open area in our prefabricated sheet & strip drains far exceed that of a perforated pipe. The comparison below tells you just how well we stack up against pipe & stone systems.




SITE DRAINTM
Prefabricated Sheet & Strip Drains

SITE DRAIN Sheet Drains are available in 4, 6 or 8' widths.
SITE DRAIN Strip Drains collect and transport water more efficiently than costly perforated pipe & stone perimeter drains.

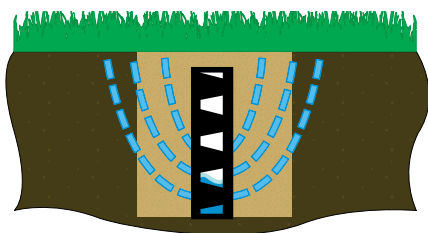
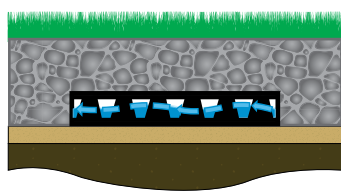
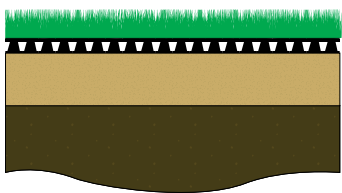
| PERFORMANCE COMPARISON | AWD DRAINS | PIPE DRAINS |
|----------------------------|------------|-------------|
| Water Collection Capacity | 65 - 80 % | 3 - 5% |
| Aggregate Required | No | Yes |
| Elimates protection board | Yes | No |
| Labor Installation Savings | Yes | No |





Athletic Field SOLUTIONS

SYNTHETIC & NATURAL TURF



EXCELDRAIN™
Prefabricated Sheet & Strip Turf Drains



- Significant Cost Savings
- Eliminates 4"-6" of Stone
- Reduced Transportation Costs
- Reduced Excavation
- Superior Rainfall Evacuation
- Enhances Synthetic Turf G-Max

Whether it's natural or synthetic turf, it needs to be dry when the whistle blows and drainage is critical to performance. ExcelDrain's engineered technology makes traditional stone drain systems a design of the past. Prefabricated drains collect and evacuate water faster and more efficiently than aggregate systems. In most field designs, 4 to 6 inches of stone would be necessary to achieve adequate drainage resulting in extra excavation and grading costs. Stone bases are rough, difficult to grade and can actually intrude into the turf over time. It's time to change the game. ExcelDrain is a perfect score against water.





AWD

AMERICAN WICK DRAIN

AWD CORPORATE OFFICE & MANUFACTURING ::

Based in Monroe, North Carolina, AWD has two full line manufacturing locations in the United States, allowing us to respond quickly to orders based on your project location.

East Coast Manufacturing - American Wick Drain - 1209 Airport Rd - Monroe, NC 28110

West Coast Manufacturing - American Wick Drain - 1190 Trademark Dr - Reno, NV 89521

INTERNATIONAL SALES ::

For information regarding International projects, please contact Corporate Office.

AWD DISTRIBUTION PARTNERS ::

AWD has developed strong alliances with both regional and national distributors who specialize in a broad range of market applications. Contact us if you need to locate a local distributor or would like to become a distributor of AWD products.

PRIVATE LABEL MANUFACTURING ::

AWD has a proven track record of developing strategic partnerships with other manufacturers who need a drainage component to compliment their existing product lines. For more information about AWD Private Label programs, please contact our Corporate Office.

SALES SUPPORT ::

Whether your project is in the design phase or bid phase, AWD has a professional team of Regional Sales Managers and Inside Sales personnel ready to assist you with your next project.

TECHNICAL SUPPORT ::

For technical data sheets, CAD drawings, detailed installation instructions or additional information about our products and applications, please visit www.americanwick.com. Our staff of professional engineers also stand ready to provide you technical assistance.

AWD WARRANTY ::

American Wick Drain Corporation (AWD) warrants its products to be free from defects in materials and workmanship under AWD's standard warranty, a copy of which is available upon request. To the best of our knowledge, the information contained in this literature was accurate when compiled.

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