



Stormwater Management:

A simple solution to a complex problem



Introducing The Bio-Aquifer Storm

The Problem

Urban development may symbolize progress and prosperity, but it also promotes excessive stormwater runoff that contributes pollution to our environment. As developers work on new building and expansion projects, they often find that their sites are subject to the latest federal regulations under the Clean Water Act targeted to reduce non-point source pollution. When stormwater or melting snow runs over impervious surfaces, it becomes a form of non-point source pollution with the potential to damage local water quality and harm aquatic life in streams that flow through urban areas.

Given these regulations, owners and developers are then faced with a tough decision. Obviously, they must comply with the regulatory requirements for stormwater management. But compliance frequently means using precious real estate to build a retention pond – and taking a bite out of the bottom line. It's a complex problem, and a solution to meet both the environmental and the business needs of the developer simply didn't exist. Until now.

The Solution

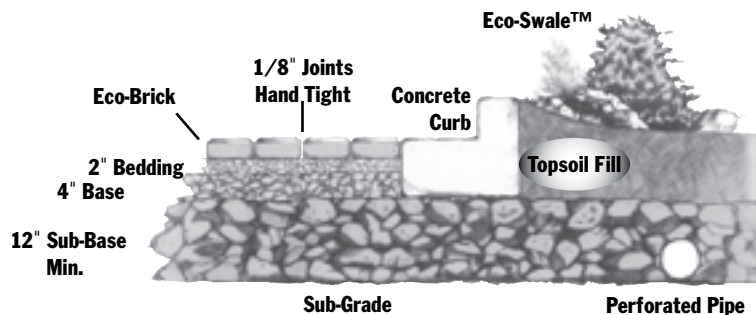
The Bio-Aquifer Storm System (BASS™) is the perfect solution to support stormwater management and business growth. BASS™ is a proprietary pavement system developed exclusively by Advanced Pavement Technology that allows for natural stormwater drainage and groundwater recharge, making it ecologically sound and economically smart.

Ecologically Sound.

A parking lot, sidewalk or street created with BASS™ uses permeable components that allow water to flow through, retaining water runoff and directing it through a series of natural filtration systems before it enters nearby streams or rivers. In fact, Advanced Pavement Technology's BASS™ method is an acceptable structural Best Management Practice (BMP) used to meet the federal stormwater management requirements. By using BASS™ to comply with these regulations, owners and developers are eliminating the need for space-wasting retention ponds while gaining these environmental benefits:

- Superior control of short-duration stormwater runoff (to near 100%)
- Reduced downstream flows and minimized potential for bank erosion
- Critical improvement of water quality using natural filtration methodology
- Valuable cooling effect during first runoff capture
- Flexible capacity for detaining water under road or parking surface

Bio-Aquifer Storm System.



1 Providing a 12" minimum sub-base for drainage and storage.



2 Creating an environmentally friendly ECO-SWALE.™



3 Screeding a 2" bedding course.



4 Using mechanical equipment to place the Eco-Swale™.



System

Economically Smart.

By reclaiming the land slated for retention ponds, owners and developers using BASS™ can make more efficient use of their real estate. Plus, the BASS™ method simply produces a superior pavement surface. The efficient mechanical installation of the system decreases the total man-hours required to complete the job. Pavement constructed using BASS™ outperforms other systems in harsh climates with freeze/thaw cycles. In addition, the system and its components deliver maximum strength to handle heavy vehicular traffic. Combining all of these factors, projects using BASS™ consistently show outstanding results on a 30-year life-cycle cost analysis. Add in its remarkable curb appeal and convenient maintenance access, and BASS™ clearly provides a strong investment value with solid business benefits:

- Enhanced land planning through the potential elimination of required retention/detention ponds
- Significant savings by reducing or eliminating conventional storm sewers and catch basins
- Reduced maintenance costs for pavement repair, sealing and replacement
- Minimized stormwater hook-up fees
- Decreased liability to owners through the elimination of open wet areas

The Team

As the exclusive source for BASS,™ Advanced Pavement Technology is uniquely qualified to meet your stormwater management needs with more than 30 years of experience. As a nationally recognized design/build paving consultant, Advanced Pavement Technology has an impressive track record of proven performance with the installation of flexible paving systems. Only the pavement system leaders at Advanced Pavement Technology have the personnel, experience and technology to provide these unsurpassed services:

- Comprehensive consultation from experienced paving experts
- Customized engineering featuring the proprietary BASS™ program
- Thorough construction support from highly trained professionals
- Cost-effective production from the leaders in mechanical installation
- Superb project management and attention to detail

Ecologically sound. Economically smart. And exclusively from Advanced Pavement Technology.

The BASS™ program truly is a simple solution to a complex problem. For more information about BASS,™ please contact Advanced Pavement Technology toll-free at (877) 551-4200 or visit our Web site:

www.advancedpavement.com.

mechanical installation to
earing course.



5 Filling joints and voids with
rock chips.



6 Compacting the permeable system.



7 Enjoying the finished system.



Get the revolutionary paving solution that's
good for the environment
and good for business
 The Bio-Aquifer Storm System

Featuring

Eco-Brick™ Permeable Pavers



Manufactured by:



Farmington Hills

22005 Gill Rd. P.O. Box 418
 Farmington Hills, MI 48332-0418
 (248) 474-3211
 Fax (248) 474-8110
www.fendtproducts.com

Ann Arbor

3285 W. Liberty
 Ann Arbor, MI 48103-9795
 (734) 663-4277
 Fax (734) 663-6515
www.fendtproducts.com

PRODUCT INFORMATION

Full Brick

4 1/2" x 9" x 3 1/8"
 .272 sq. ft. per unit
 3.68 units per sq. ft.
 36 units/layer, 252/cube

Half Brick

4 1/2" x 4 1/2" x 3 1/8"
 .136 sq. ft. per unit
 7.35 units per sq. ft.
 8 units/layer, 56/cube

10.9 sq. ft. per layer
 76.30 sq. ft. per cube