

FocalPoint

High-Performance Modular Biofiltration System

WHY FOCALPOINT?

FocalPoint utilizes physical, chemical and biological mechanisms of a soil, plant and microbe complex to achieve pollutant removal rates consistent with traditional bioretention, and the option of increased removal characteristics for specific pollutant targets. Treat the same amount of water in <5% of the area required by traditional bioretention. By decreasing a property's surface storage volume requirements using FocalPoint, you can:



SPEND LESS



BUILD MORE

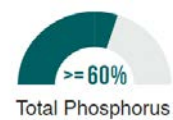
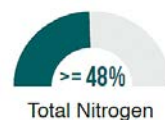
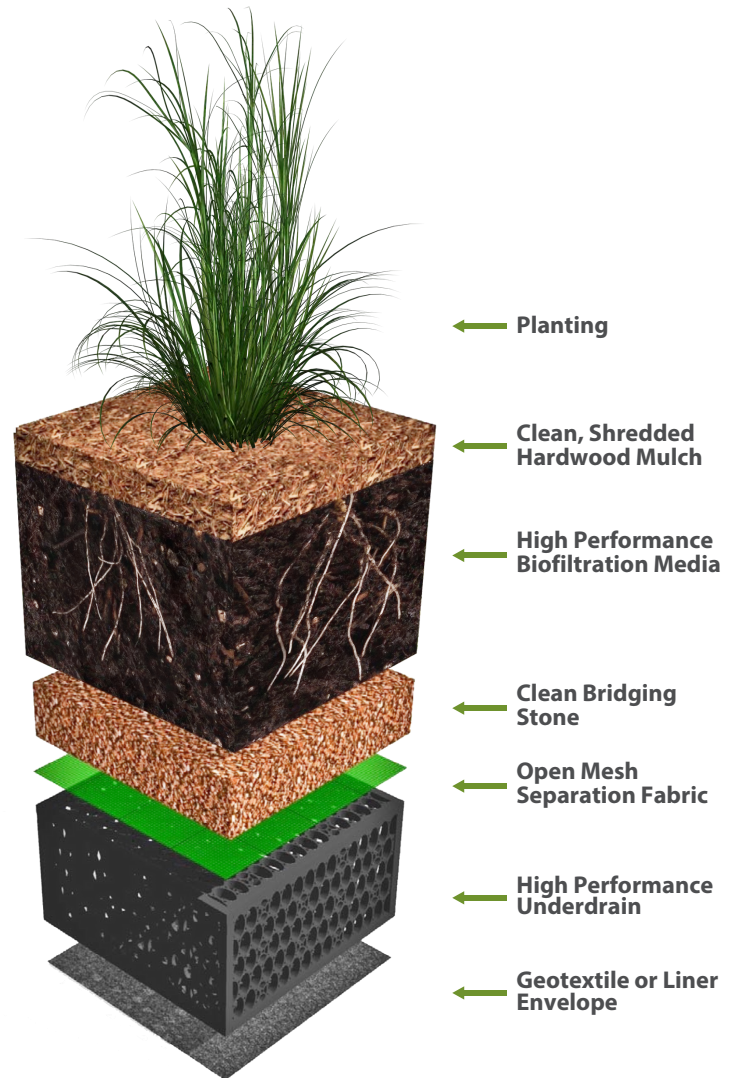


IMPROVE AESTHETICS

NEXT GENERATION COMPONENTS

FocalPoint High Performance Modular Biofiltration Systems (HPMBS) is a scalable biofiltration system which combines the efficiency of high flow rate engineered soils with the durability and modularity of a highly pervious expandable underdrain/storage/infiltration system. The FocalPoint HPMBS is a complete, integrated system with a demanding specification that insures functionality, performance, and maintainability.

FocalPoint's next generation biofiltration media, developed by Larry Coffman, the creator of Low Impact Development, is the key to its high performance. Media flow rate impacts system performance in all aspects, from scale and cost-effectiveness to factors of safety, longevity, and maintenance minimization. Infiltration flow rates for FocalPoint standard media exceed 100" per hour (2540mm/hr). Convergent guarantees it through a performance-based specification.

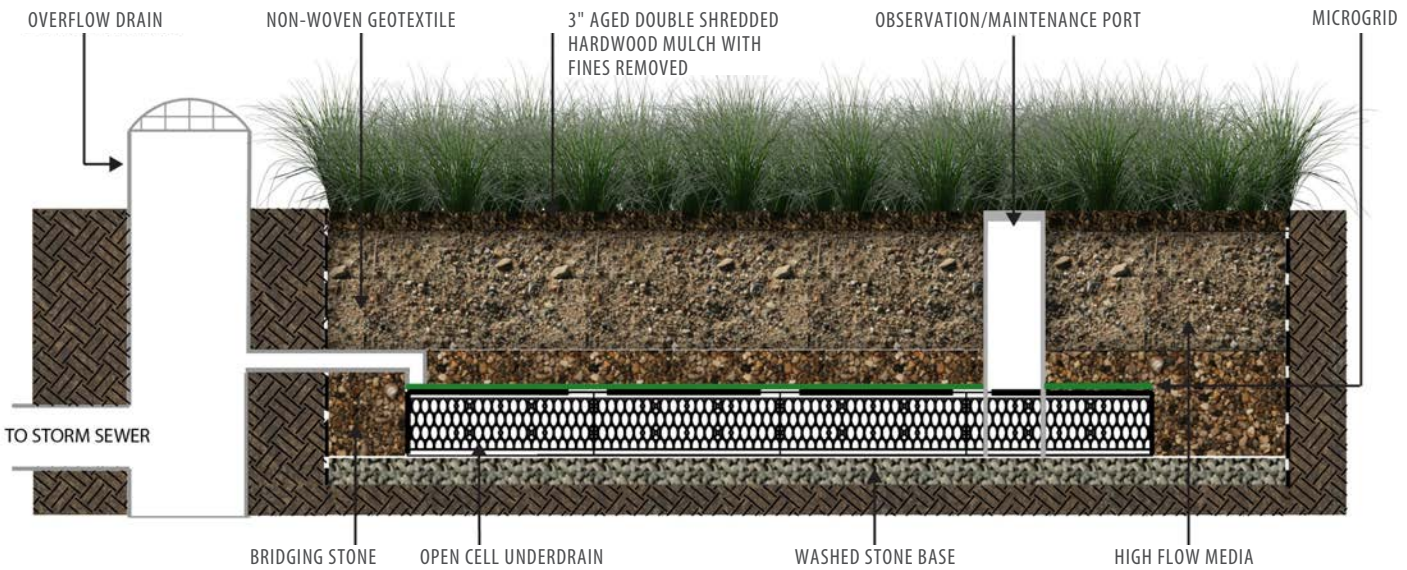


INTEGRATED TREATMENT AND STORAGE

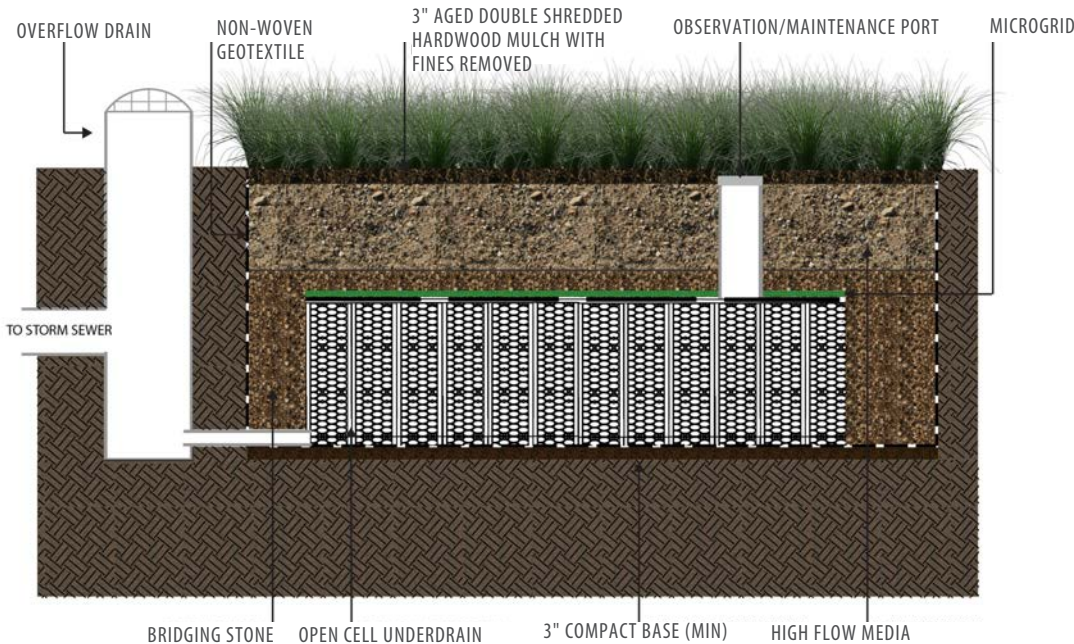
FocalPoint's modular open cell underdrain system, unlike traditional underdrains, not only supports the flow rate of the media, but can be expanded beyond the footprint of the media bed to provide unlimited underground detention, infiltration and/or storage for water reuse.

By combining high flow rates and modularity, FocalPoint can be used in spaces too small to support traditional biofiltration, such as high-density urban redevelopment. Application options for FocalPoint are virtually unlimited. FocalPoint is ideal for:

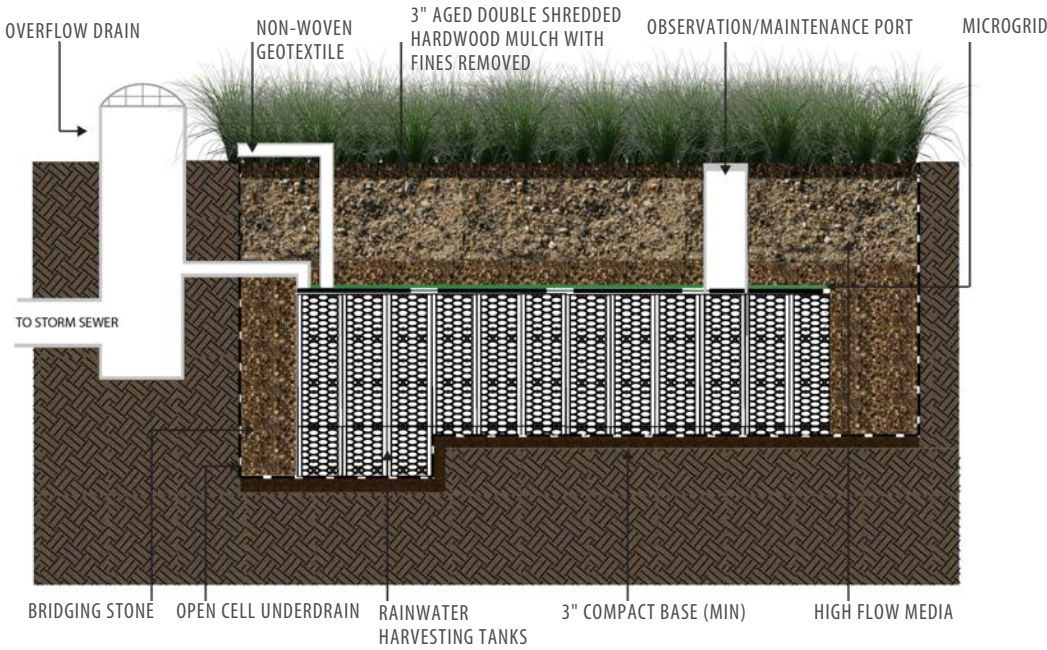
Expanded Detention



Expanded Infiltration



Rainwater Harvesting



PERFORMANCE AND TESTING

FocalPoint utilizes physical, chemical and biological mechanisms of a soil, plant and microbe complex to remove pollutants typically found in urban stormwater runoff. This allows FocalPoint to achieve pollutant removal rates consistent with traditional bioretention, and the option of increased removal characteristics for specific pollutant targets. FocalPoint is 3rd party field tested under TAPE (Technology Assessment Protocol – Ecology), independently field tested by the North Carolina State University, and is NJCAT verified and NJDEP certification.

'CAP AND SEAL' PROTECTION

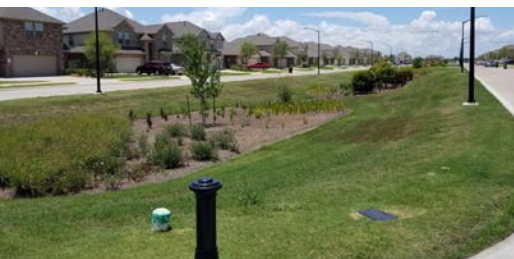
FocalPoint's unique 'Cap & Seal' protection ensures a viable system regardless of the construction sequencing by sealing off the media bed until the contributing drainage area is stabilized. Due to its small scale, typically 20:1 compared to traditional bioretention, FocalPoint HPMBs can be capped and sealed, allowing installation to take place early in the project construction cycle when other site utilities are installed post-stabilization.





DESIGN AND SIZING SUPPORT

FocalPoint HPMBs is typically deployed in a boxless configuration, giving the designer greater flexibility in locating the system in their site development plan. Systems sizing can be either flow or volume based depending on the local regulations. With over 800 installations across 38 states and a decade of design, application and installation, we have the experience and expertise to manage your stormwater efficiently. Please contact Echelon Environmental today for technical support, CAD details and specifications.



ABOUT ECHELON ENVIRONMENTAL

Echelon Environmental strives to do our part for the environment by providing strategically engineered solutions for Stormwater, Rainwater Harvesting and LID technologies. We offer custom designed process equipment and systems for the effective removal of pollutants such as TSS, Hydrocarbons, Phosphorous and Heavy Metals. Our multidisciplinary in-house and field staff not only provides our clients with process technology solutions but also provides strong support for equipment installation, commissioning and after-sales service.

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