CONVERGENT
WATER TECHNOLOGIES

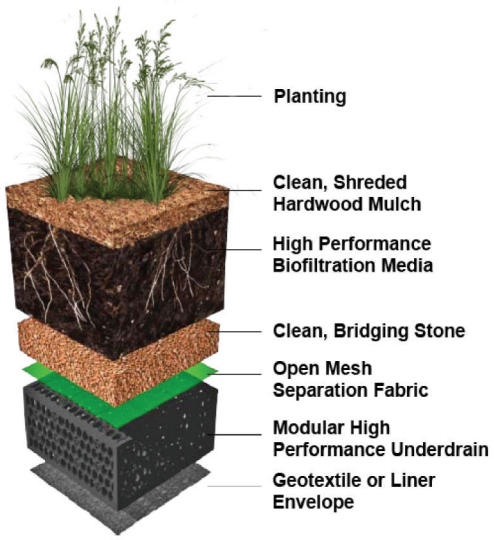
Next Generation Bioretention

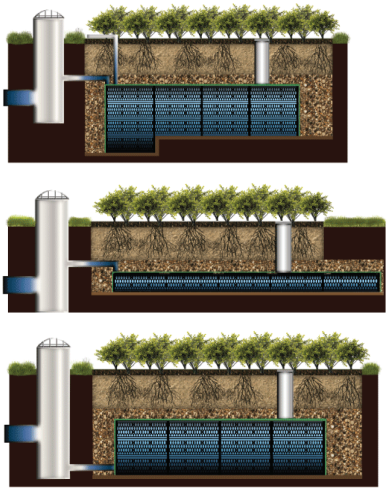
HIGH PERFORMANCE MODULAR BIOFILTRATION SYSTEMS

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. Convergent guarantees it, and we prove it, through post-installation and annual onsite verification testing.





FLEXIBLE MODULAR UNDRAIN

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

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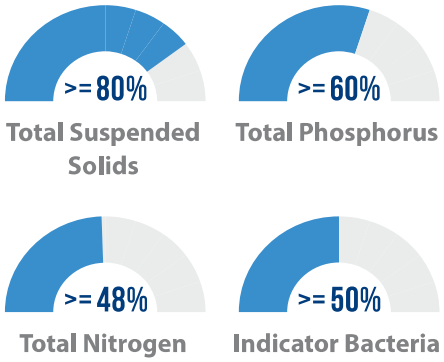
FocalPoint
BIOFILTRATION SYSTEMS

FLEXIBLE. RELIABLE. ECONOMICAL.

POLLUTANT REMOVAL EFFICIENCY

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 has numerous agencies' approvals that meet state water quality standards for post construction BMPs.



'CAP AND SEAL' PROTECTION

Protecting any biofiltration/bioretention system prior to drainage area stabilization is of the utmost importance. 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. Solving this problem removes one of the most problematic issues in bioretention. 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.

PERFORMANCE GUARANTEED & 1-YEAR FREE MAINENTANCE

This hydraulic conductivity test procedure measures the entire media profile under saturated conditions to produce a reliable and accurate result.

To ensure the highest level of effectiveness, Convergent specifies that the FocalPoint HPMBS be tested after commissioning and we recommend the system be tested annually thereafter, as part of a lifecycle maintenance program, to provide ongoing quality assurance.

The first year's maintenance is included, at no additional cost, in all FocalPoint HPMBS installations to ensure high performance. Low-cost annual maintenance contracts are available.

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