Focal Point
HP Bio-Filtration
Frequently Asked Questions

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Quick Supply Co.

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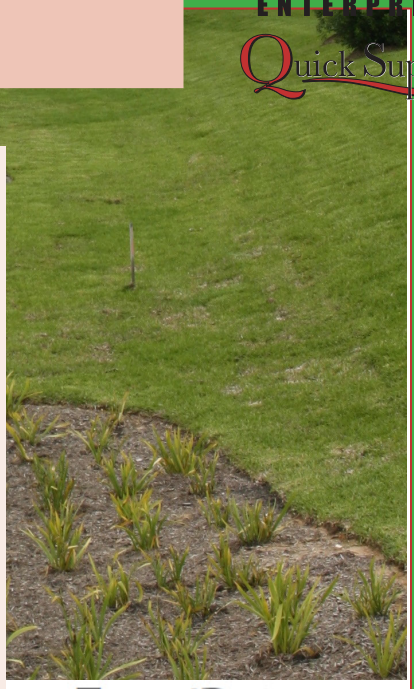

FocalPoint
BIOFILTRATION SYSTEM

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Frequently Asked Qs

Focal Point
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Frequently Asked Questions (continued)

8. What is the life span of a Focal Point system? The Focal Point High Performance Biofiltration system is a relatively new product. Our lifespan would be very similar to normal biofiltration systems as it performs in a similar method and has a sustainable feature the plants taking up the pollutants as nutrients and utilizing them. Due
the smaller size of Focal Point the future replacement of the media, plants and mulch is a fraction of the cost of rebuilding a traditional system.

9. Treatment rate? Based on our specifications, the FocalPoint media is certified at 100 "/hr. This translates to a loading rate of 1 gpm/SF (flow over surface area of media). By the nature of our design, the media flow is restrictive and creates a temporary ponding condition at the surface just as all bioretention\bioswale systems do.

10. Does the FocalPoint require a basin above the FocalPoint system? We can treat the WQV in a small footprint with large bowl (storage above the FocalPoint) or if there is not enough space on-site for the large bowl we can expand the size of the FocalPoint.

11. Pollutant removals?. We treat the same pollutants as any sand based bioretention media system that includes TSS, TP, TN, heavy metals, bacteria and oils and grease. Testing of high flow rate media and our own 3rd party testing has shown >80% TSS, >60% TP and >40% TN removal.

12. What is pretreatment? A pretreatment device manages gross pollutants and coarse sediment, thus protecting the FocalPoint, reducing maintenance and increasing the life and effectiveness of the FocalPoint. Our best pretreat-ment options are a Rain Guardian and a vegetated swale.

13. What are the dimensions of the FocalPoint system, and the different layers? All FocalPoint systems are custom-fit to each site. Input variables for each location determine the surface area and required storage volume for each FocalPoint. All systems have the same cross-section layers (see standard detail) with the option of using deeper tanks as the underdrain. Layer thicknesses are all standard, per detail.

14. Construction/Installation information? Refer to our Bowman Construction Supply installation manual.

15. Accessibility into the FocalPoint (access to the different layers) for repair/maintenance? FocalPoint is not con-tained within a structure. By design the mulch layer is easily accessible for maintenance. The inspection port goes down into the modular box (underdrain) layer to check for standing water and sediment. That inspection port also serves as a clean-out for required maintenance, if necessary. The beehive overflow grate would give you vis-ibility to the underdrain as well.

16. How deep is a FocalPoint system? Unlike a traditional bioretention system FocalPoint is a compact system with a 3 ft vertical profile with 3 layers: mulch, media and underdrain (pea gravel and modular tanks). The layers are uniform and certified to meet spec by Bowman Construction Supply.

17. Besides the modular tank underdrain and micro mesh, how does FocalPoint differ from traditional biofiltration systems? Unlike traditional bioretention media, the FocalPoint media (as detailed in our written specifications) is blended and packaged under controlled conditions. The high-performance biofiltration media must meet the Fo-calPoint specification, which is verified by Bowman Construction Supply during the hydraulic conductivity test upon commissioning and again one year later, as written in our guarantee.

18. Potential maintenance issues? We have tried to alleviate maintenance challenges with traditional bioretention by including the first year of maintenance and hydraulic certification of our system. Clogging concern: The Rain Guardian is a great pretreatment device that will reduce this problem if properly maintained. Even if a Rain Guard-ian is not utilized, the mulch layer performs very well to remove the TSS. Periodic removal and replacement of the mulch can, in most cases eliminate clogging. Overflow during major storm events: You may specify a beehive overflow system with a removable filter inside. Contact your Bowman representative for options.

19. Maintenance Requirements? Refer to the O&M manual. We provide the 1st year of maintenance with the system at no cost to the owner. We can provide training to the owner for future maintenance. Maintenance consists of pulling off the expired mulch and replacing with new mulch. Minimal weeding is needed with a 3" mulch layer. Repair minor erosion areas, pull out any trash and debris, and inspect plants. In addition to the first year of maintenance, part of our guarantee is the hydraulic conductivity test that is performed by Bowman Construction Supply. This test verifies that the FocalPoint system is functioning as designed.

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