

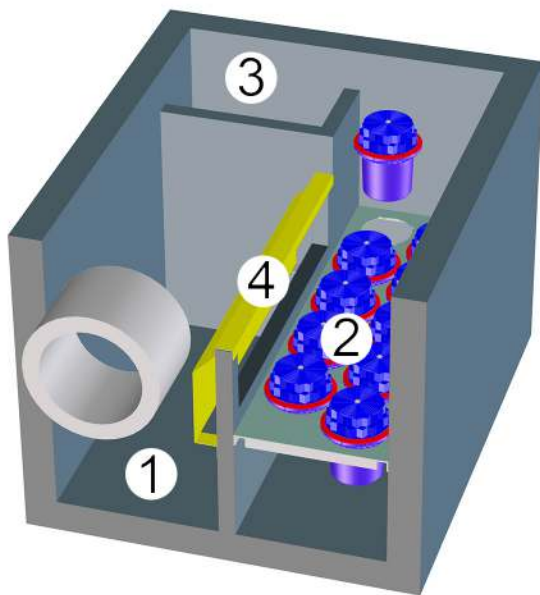


Evolved Stormwater Solutions

STORMSAFE CARTRIDGE BASED STORMWATER FILTER SYSTEM

The StormSafe Filter Cartridge Vault System are ideal for central drainage areas that require stormwater treatment beyond simple gross pollutants and trash removal. By utilizing the same proven filter technology from the StormBasin product line, the StormSafe Cartridge Vault can reduce concentrations of targeted stormwater pollutants in a cost-effective manner. The StormSafe Cartridge Vault is ideal for parking areas, storage areas and maintenance yards that have high concentrations of heavy metals, and oils & grease loads.

The StormSafe Cartridge Vault is a good choice for projects with a treatment flow rate of 3 cubic feet/sec or less. Relative to competitor vault systems, the StormSafe Cartridge Vault is designed to provide a highly effective treatment solution within a small foot print.



Chamber 1: Pretreatment Chamber – Untreated water enters the StormSafe here

Chamber 2: Filtration Chamber – Contains the filter cartridges

Chamber 3: Outlet Chamber – Located behind the Pretreatment and Filtration chambers, the Outlet chamber contains the outfall pipe

Stormwater runoff enters the vault through the Pretreatment chamber where the heaviest sediments begin to separate from the water and drop to the bottom of the chamber. As the runoff fills the chamber the water level rises upwards towards a rectangular opening or weir passing through the wall to the Filtration Chamber.

To protect the Filtration Chamber from the floating trash, debris, and oils/grease in the runoff, the opening/weir connecting the Pretreatment to the Filtration Chamber is equipped with a full length hood (See location 4 in the drawing). This submerged hood, acts like an oil/water separator trapping floating material in the Pretreatment Chamber. This simple process protects the filter cartridges – extending their service life and allowing optimum treatment flow rates.

Water leaving the Pretreatment Chamber enters the Filtration Chamber where it is filtered through Fabco cartridges held in a permanently installed mounting plate. The treated water leaving the cartridges drops down below the mounting plate and flows directly into the Outlet Chamber where it exits the treatment process.

If the inlet hood between the Pretreatment Chamber and the Filtration Chamber becomes blocked or if the total flow rate to the StormSafe exceeds the system treatment capacity, water can bypass the internal dividing walls and into the Outlet Chamber thereby providing additional hydraulic capacity.