The modular UrbanGreen BioFilter combines biological and engineered media filtration to create the perfect balance for the removal of pollutants. Using Treepit or Raingarden configurations, Stormwater360’s UrbanGreen BioFilter is ARC TP10 compliant and treats your site while enhancing your sites aesthetics with NZ native or exotic planting options. Stormwater360’s engineered UrbanGreen BioMedia uses a tailored blend of New Zealand sourced materials to balance hydraulic performance and plant growth and optimise your treatment solution.

**How does the UrbanGreen BioFilter work?**

The UrbanGreen BioFilter is a precast hybrid design that can be configured as either an open top raingarden or with a lid and tree grate as a treepit design. Initial flow enters the filter from the curb (or rooftop drainage or area drain in carparks) and is directed into the biofiltration chamber where biofiltration is achieved using an engineered soil mixture. Soil components are designed for high permeability while maintaining moisture content for plant growth. The soilmix has a documented ability to remove fine sediments, metals, nutrients, hydrocarbons and other common pollutants found in stormwater. Native vegetation provides nutrient uptake, evapotranspiration and sequesters heavy metals. Multiple vegetation options are available for all geographies in New Zealand. Once the biofiltration bay has reached its capacity, the residual flow is treated by StormFilter™ media cartridges. Media options include Perlite or Zeolite/Perlite/Granular carbon (ZPG™) mix. High flow is placed offline of the treatment chambers via an internal bypass.

**UrbanGreen BioFilter Benefits**

- Bioretention and media filtration in one system. Two well known and accepted practices provide the benefit of two technologies in one system.
- ARC TP10 compliant.
- Easy installation - Delivered to site with all internal components installed (except tree or other vegetation) - ready to lift and place by Hi-AB.
- Internal bypass - Eliminates the need and cost of installing an external bypass and enables the system to be placed anywhere on a site.
- Aesthetic landscape solution.
- Standard treatment capacity means simple sizing and design.
- System discharge can be combined with other Stormwater360 infiltration products.
COMBINE WITH CHAMBERMAXX™ FOR SOAKAGE

The UrbanGreen BioFilter can be combined with other Stormwater360 products to further reduce your site's impact. If your site has adequate soakage, you can connect directly to the ChamberMaxx™ underground plastic arch infiltration system. ChamberMaxx is a shallow profile open bottom arch system capable of withstanding highway loadings, meaning it can be located below your roadway or paved parking areas.

Alternatively, the UrbanGreen BioFilter can be used to pre-treat your runoff prior to stormwater harvesting for re-use on your site. MaxxTank™ rainwater harvesting systems combine ChamberMaxx arches with an EPDM liner to capture and store your runoff prior to pumping for irrigation or other water requirements. Combining biofiltration with soakage or water re-use can mean you get zero runoff from your hardstand area.

MAINTENANCE:

Stormwater360 offer complete support for the UrbanGreen BioFilter throughout design, installation and ongoing maintenance of the device. Loadings vary depending on site usage. Stormwater360 recommends inspection and minor maintenance (removal of litter and debris from the biofiltration bay) annually depending on local regulations and maintenance of the StormFilter cartridges approximately three yearly. Full maintenance details are provided in the product Operations and Maintenance manual.