ChamberMaxx™

Open bottomed plastic arch soakage chambers

ChamberMaxx is the latest in corrugated, open-bottom plastic arch systems designed to economically collect, detain, retain and infiltrate stormwater runoff. The chambers are injection-molded using structurally-efficient and corrosion-resistant polypropylene resin. With 2.15 m^3 of available storage per chamber (including rock storage), ChamberMaxx is the most cost-efficient of its kind. In soakage applications, the ChamberMaxx system effectively recharges groundwater which can achieve Low Impact Design (LID) reduced discharge objectives. ChamberMaxx's lightweight design has been extensively tested and exceeds New Zealand HN-HO 72 Heavy traffic loading standards.

HOW DOES CHAMBERMAXX WORK?

The open-bottom plastic chamber allows infiltration into surrounding soil, effectively achieving runoff reduction objectives for LID requirements. By utilising subsurface infiltration, space is preserved for development, runoff is reduced or eliminated and groundwater recharge can occur. The ChamberMaxx is ideal when you need to maximise storage capacity in a shallow footprint.

ChamberMaxx is modular and can be configured in various configurations depending on site layout and services. Installation is simple and as the chambers weigh less than 40 Kg each, they can be easily handled on site and dont require heavy lifting equipment. Void space between the chambers is filled with 40/20 crushed rock drainage aggregate providing load bearing capacity, as well as contributing to storage volume.

Detention and rainwater harvesting options are also available with the MaxxTank™ configuration using a heavy duty EPDM liner to surround the chambers and rock.

Structural load testing

CHAMBERMAXX BENEFITS

- Features integral end walls for superior structural integrity, reduced costs, and fewer parts to handle during installation
- Modular configuration means flexible layout options
- Lightweight - each chamber weights approx 40Kg, and can be handlifted into place on site
- Exceeds USA (AASHTO HS-25), Australian and New Zealand (AS 5100.2, AS/NZS 2566 and HN-HO 72) heavy loading standard
- Effectively recharges groundwater which can achieve LID design requirements
- Low profile means it can be used on shallow sites

SOAKAGE

ChamberMaxx is a versatile lightweight plastic arch soakage system. Structural loading exceeds HN-HO 72 heavy traffic loading standard.

Stormwater360®
BETWEEN SKY AND SEA

Pallets of ChamberMaxx™ arches

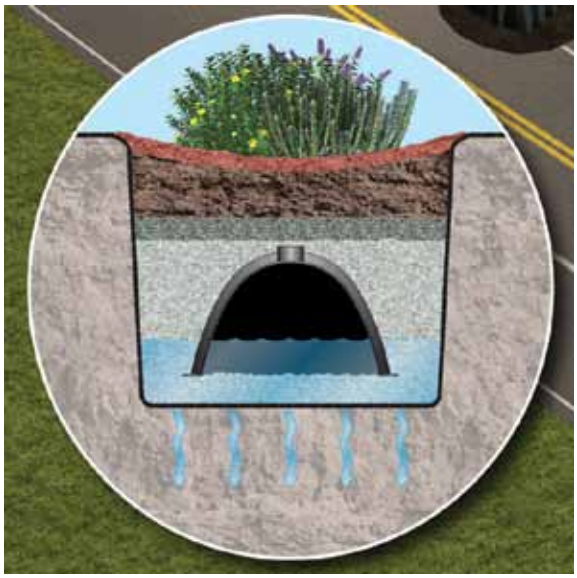
Backfilling chambers with rock

Completed soakage system

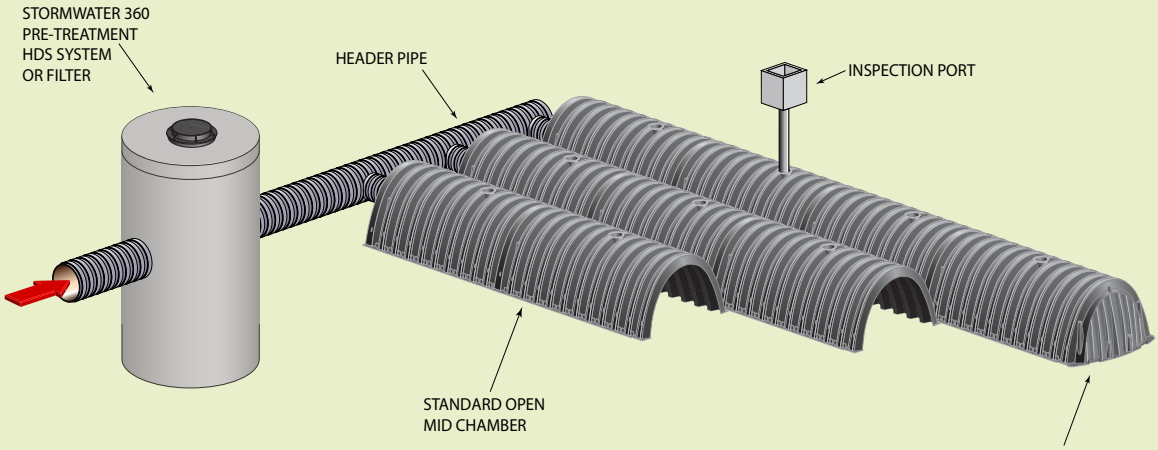
WHY PRE-TREAT CHAMBERMAXX™ ?

Pre-treatment is recommended upstream of any soakage device. Fine sediments, litter and oil can clog soakage surfaces, reducing permeability affecting the rate of discharge. Maintenace of underground soakage systems can be diffcult and costly if required frequently. Correct pre-treatment can reduce overall maintenance costs and increase the quality of the water being recharged back into the groundwater system.

Stormwater360 offer several pre-treatment options depending on your site requirements. From Gross Pollutant Traps (GPT's) to Media or Biofiltration options. Pre-treatment ensures longevity of your soakage system. For more information on pre-treatment, visit our website at www.stormwater360.co.nz



ChamberMaxx soakage below swale



Typical ChamberMaxx Layout