

CHAMBERMAXX™

Retention, detention or
underground reuse tank

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 m³ 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 stormwater 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 don't 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.



Structural load testing

CHAMBERMAXX™ BENEFITS

- Tool for meeting retention & detention objectives
- Exceeds New Zealand Heavy Traffic Loading (HN-HO-72) standards
- Ideal for under carparks & roads, where space is at a premium
- Low-cost solution for large detention requirements
- Low profile means it can be used on shallow sites

CONTACT DETAILS

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Pallets of ChamberMaxx™ arches



Backfilling chambers with rock

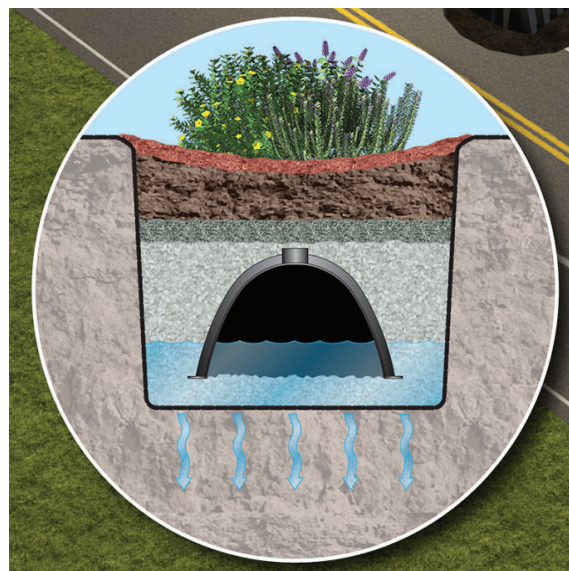


Completed soakage system

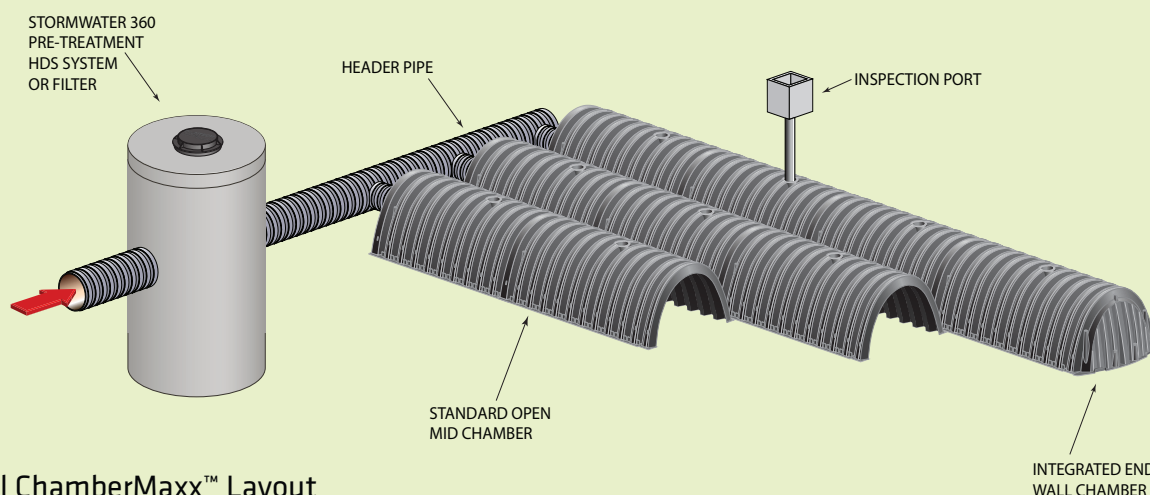
WHY PRE-TREAT CHAMBERMAXX™ ?

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. Maintenance of underground soakage systems can be difficult 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