

MODULAR STORMWATER INFILTRATION TANK AND PUMP STATION HELP MAJESTIC PLUMBING DRIVE EFFICIENCIES AND LOWER COSTS

Client Profile

Majestic Plumbing is a full-service plumbing and gas maintenance provider with 40 years' experience in commercial, industrial, and residential plumbing. From high-rise construction to major civil works, Majestic has built a reputation in Western Australia for excellence in all areas of the plumbing industry.

The Problem

For a major infrastructure project in the Perth suburb of Malaga, head contractor Majestic Plumbing needed an alternative solution, one that could be installed underground with an infiltration tank and pump system that could effectively minimise stormwater run-off.

Due to the nature of the project, the stormwater management system had to be cost-effective, quick and easy to install, and adhere to considerations around restricted land usage and the environment.

The Solution

The Flo-Vault® structural lightweight modular tank system chosen for this project had a water storage capacity of approximately 220 cubic metres and was constructed for use in a sub-surface pit. Featuring a best-in-class compressive strength of 40 t/m² and high infiltrate rate, the modular system allows four people to assemble 300m³/day.

Aside from the Flo-Vault® tanks, the engineered pump station was key to the optimised functioning of the stormwater system. Positioned two metres below the surface and level with the inlets, the pump station integrated dual Tsurumi pumps, a pump controller, and a time encased bolt pump sprayer. If one pump fails, the other one will kick-in, and the alarm will sound to alert onsite personnel.



Summary

Location
Crocker Dr,
Malaga, WA 6090



Client
Majestic Plumbing



Products Used
Modular Tank System Flo-Vault®
& Custom Pump Pit System



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Coerco's Flo-Vault® modular tank system delivered significant time and cost savings through a streamlined product design and quick installation.