

enviss™ Sentinel Pit

Stormwater Filtration System



Utilising the latest media filtration technology, the enviss™ Sentinel stormwater treatment system is a complete three-stage WSUD treatment train in a single pit.

The specifically engineered enviss™ filter media effectively removes pollutants such as sediment, nitrogen, phosphorus and heavy metals using a simple, cost-effective design.

The enviss™ Sentinel range of filter pits prevents pollutants being washed off site and allows WSUD principles to be applied within pavements as well as green spaces.

Advantages

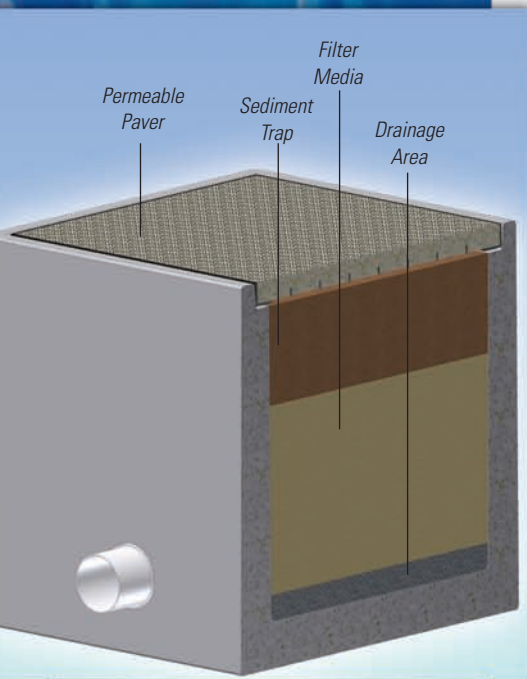
- **Developed and tested by Monash University**
- **High remove rate of nutrients, including nitrogen**
- **High pollutant removal performance from a very small footprint**
- **Withstands long dry periods without damage or leaching of nutrients**
- **Easy application using the envissDT™ simulation software**
- **Simple, planned maintenance, no specialist equipment required**
- **Based on passive filtration, requires no chemicals or energy**
- **Easy installation**
- **Low cost of ownership**

The enviss™ Filter System

Filter Media: Designed to remove dissolved nutrients from stormwater using a physical process. This treatment method results in consistently high levels of nutrient removal and does not produce or leach captured pollutants.

Sediment Trap: The sediment trap module protects the finer filter media from frequent clogging and extends the life of the filter.

WATER QUALITY



enviss™ Filter Media Technology

The enviss™ filter technology is based on a specifically engineered media that removes a high proportion of particulate and dissolved pollutants found in stormwater runoff, before they enter the stormwater system.

enviss™ Sentinel filter pits provide a complete three-stage treatment train by combining a sediment trap and fine filter media with permeable pavers, which exclude gross pollutants. The sediment trap utilises distinct media filter layers to capture coarse and fine sediments. This protects the filter media from frequent clogging, extending filter life and maintaining treatment efficiency between storm events.

Keep it simple

enviss™ Sentinel filter pits are delivered complete, ready to be installed into an excavated hole and connected to stormwater.

WSUD in a pit

Developed by Monash University, the enviss™ filter technology allows WSUD treatment requirements to be achieved within a very small footprint.

Fully tested

The enviss™ filter technology has been extensively tested by Monash University during development in the laboratory and the field to confirm consistent high levels of performance.

Simple to specify

enviss™ systems are easily designed using the custom simulation software, envissDT™. Similar to MUSIC, envissDT™ simulates the hydrology of the catchment and filter to assess performance. The program has storage and demand models that enable optimisation of both filter and tank sizes.

enviss™ Sentinel Filter Pit Performance

Pollutant	ARQ Target	Sentinel Pit Removal Rate
Total Suspended Solids	80%	96%
Total Phosphorous	45%	67%
Total Nitrogen	45%	79%
Heavy Metals	N/A	74%

Applications

enviss™ Sentinel filter pits are suitable for a wide range of applications, including:

- Carparks
- New property developments
- Retro fit into existing systems
- Control of pollution discharge
- Stormwater harvesting
- WSUD
- Industrial developments
- At source surface treatment

For more information about the enviss™ Sentinel filter pit and other stormwater treatment systems from Rocla Water Quality

Call Rocla on
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Or visit our website
www.rocla.com.au



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