



**spelstormwater**  
joy in water

# SPEL Stormchamber®

Modular stormwater storage

## OVERVIEW

The SPEL StormChamber® is an open bottomed, high-density polyethylene infiltration chamber for subsurface retention or detention of storm water runoff, which provides an environmentally progressive and technologically advanced storage and pollutant removal solution – yet it is more cost-effective and requires less maintenance than other types of underground storm water management systems.

## BENEFITS

- Efficient installation
- Design flexibility
- Open infiltrative surface area
- Replicates pre-construction hydrology

## APPLICATIONS

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Commercial

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Industrial

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Residential



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## Benefits over other storage methods

- Helps counter drought conditions by maintaining groundwater base flow to streams.
- Superior load ratings for trafficable areas. Complies with AS5100, W80 wheel loads.
- Maximised volume for efficient storage void ratio.
- The least cost underground alternative.
- The lowest installed cost of any modular storage technology.
- Burial depths up to over 9m.
- Multi-layered installations possible for restricted surface area sites.
- Superior design eliminates costly and complicated header manifold systems.
- Can be utilised for conveyance in remote locations.
- Recycled HDPE construction allows smaller excavation and decreased footprint.



## Domestic example



## Average % Removal Rates

Pollutant Parameter	Infiltration	Wetland	Water Quality Pond	Filtering System	Water Quality Swale
Total Phosphorus	65	51	45.5	45	14.5
Total Nitrogen	82.5	20.9	30	32	10.5
Lead	98	63	66.5	71	50
Zinc	99	53.5	50.5	69	49
Suspended Solids	88.5	78	70	81	66
Organic Carbon	82	28	35	57	23

\* Source: Brown, Whitney, Schueler, Thomas. National Pollutant Removal Performance Database for Stormwater BMPs, August 1997, Center for Watershed Protection, Ellicott City, Maryland.

## StormChamber Features

Standard module = 2.12m<sup>3</sup> (installed)  
 Design storage capacity = 3.26 to 4.56m<sup>3</sup>  
 Length = 2.36m (effective installed length)  
 Width = 1.52m  
 Height = 0.86m