

Stormbloc™

Stormwater Storage & Infiltration System

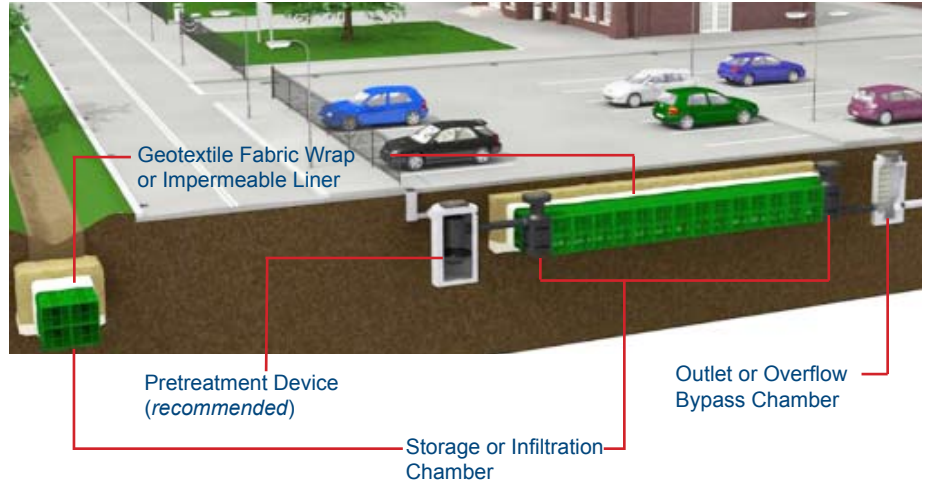
Light, modular stormwater detention media for environmentally designed sites

APPLICATIONS

- Low impact and LEED® development sites
- Stormwater storage & infiltration
- Underneath parking lots, roads, permeable pavers, landscaping and athletic fields
- Irregularly shaped or space constrained sites
- Stormwater harvesting & re-use

ADVANTAGES

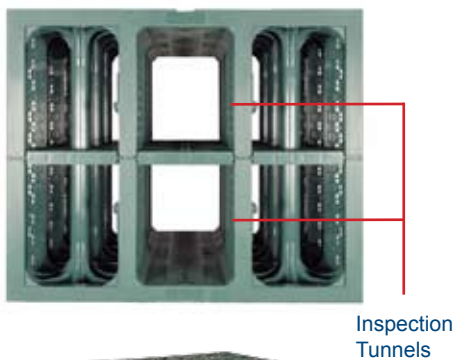
- Space efficient, with a high storage capacity with 95% void ratio
- Stormbloc™ Inspect Chamber provides direct access for maintenance equipment from the surface
- Stormbloc™ Inspect Chamber provides many options for pipework connections
- HS20 load bearing blocks can be installed in excess of 10-ft deep



Stormbloc™ stormwater detention and infiltration systems provide site planners with many design options for low impact, LEED® or ultra-urban development projects. With over 95% void ratio, Stormbloc requires a less disruptive, smaller footprint than pipe and arch chamber systems.

With its high vertical loading strength and its multitude of pipework connection options, Stormbloc allows engineers to easily design rainwater harvesting, detention or infiltration schemes on sites where budget, space and environmental regulations pose significant design constraints.

Stormbloc full-block



Stormbloc half-block



Stormbloc Inspect Chamber

Inspection & Maintenance

Stormbloc is designed to facilitate easy and effective inspection and maintenance.

The Stormbloc Inspect Chamber provides inspection and maintenance equipment with direct access to the detention volume from the surface.

Each Stormbloc has an Inspection Tunnel running through its center. A Stormbloc system is designed with the inspection tunnels situated face-to-face, creating a continuous access tunnel spanning the entire length of the detention volume.



Design Considerations

A **Stormbloc System** can be used for either stormwater storage or infiltration, or combined storage and infiltration, and can fit into irregularly shaped lots where large surface areas are unavailable or too costly.

Stormbloc Systems can be designed to withstand traffic loads making it suitable for many site use conditions, such as parking lots, athletic fields, and driveways.

In general, subsurface storage and infiltration systems require consideration of expected loads, seasonal high groundwater elevations, as well as permeability and stability of surrounding soils. Hydro International's design engineers will provide technical support to simplify the design of every **Stormbloc** storage or infiltration system where possible.

The **Stormbloc Infiltration System** is typically designed with the distribution pipes connecting into a **Stormbloc Inspect Chamber**, although pipework can be connected directly to the Stormblocs via the snap-lock end plates.

Common **Stormbloc** arrangements are shown below.

| Configuration | | Site Use |
|---------------|-------------------------------------|--|
| A | Temporary On-Site Detention Systems | <ul style="list-style-type: none"> - Medium to large stormwater catchments underneath parking lots, athletic fields and landscaped areas - Often sized for the Water Quality Volume - Can be designed as storage or combined storage and infiltration |
| B | Infiltration Bay Systems | <ul style="list-style-type: none"> - Medium to large stormwater catchments underneath parking lots, athletic fields and landscaped areas |
| C | Small Catchment Systems | <ul style="list-style-type: none"> - Small pockets of detention & infiltration distributed across a site - Infiltration or detention for roofdrains and disconnected downspouts |
| D | Rainwater Harvesting & Re-Use | <ul style="list-style-type: none"> - Rainwater capture & detention for landscape irrigation supply - Rainwater capture & re-use for non-potable water needs |

