

Hydro StormScape™

Green Infrastructure Filter



Flow entering the system is directed around the outer treatment chamber where trash and debris are captured.

Flow seeps through the perforated baffle wall into the inner treatment chamber where finer particles and pollutants are captured before passing through engineered media and infiltrating into the surrounding native soil.

Benefits

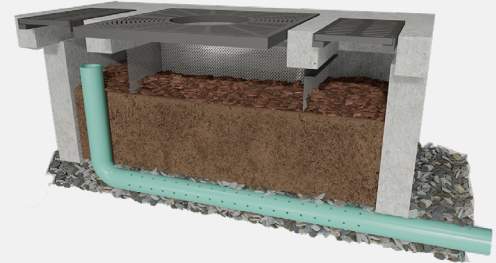
Flexible Filtration and Infiltration

Hydro StormScape green infrastructure filter allows you to filter and infiltrate stormwater, combining pollutant removal and runoff reduction into one biofilter system. Other great features and benefits include:

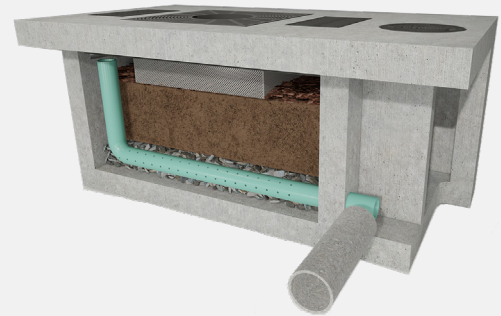
- » An open base won't restrict root growth so vegetation thrives quicker and lives longer
- » Runoff is kept on site which reduces quantity of stormwater that is discharged
- » Optional internal bypass for conveyance of high flows
- » Flexible design for use in a variety of streetscapes and drainage system configurations

Product Summary

Hydro StormScape is a sophisticated departure from other "tree-in-a-box" bio filters because it's not actually in a box. An open base is not only better for vegetation, it also allows you to keep more runoff on site for longer.



Hydro StormScape™ with open bottom



Hydro StormScape™ with Internal Bypass

Applications

- » Sites where runoff reduction is a regulatory objective
- » Removal of total suspended solids (TSS), floatable trash, metals and nutrients from stormwater runoff
- » Integrating stormwater treatment and management into landscape architecture
- » Low Impact Development (LID) or green infrastructure projects
- » LEED® development projects



Stormwater Solutions

→ hydro-int.com/stormscape

Performance & Sizing Data

Hydro StormScape green infrastructure filter reduces pollutant loads in stormwater, including total suspended solids, nutrients and metals. Results were independently tested and verified according to standard protocols.

Standard Sizes ¹	
(ft)	(m)
4 x 4	1.2 x 1.2
4 x 6	1.2 x 1.8
4 x 8	1.2 x 2.4
4 x 12	1.2 x 3.6
6 x 6	1.8 x 1.8
6 x 8	1.8 x 2.4
6 x 12	1.8 x 3.6
8 x 6	2.4 x 1.8
8 x 8	2.4 x 2.4
8 x 12	2.4 x 3.6
8 x 16	2.4 x 4.6
8 x 18	2.4 x 5.6

StormScape™ Internal Bypass	
4 x 8	1.2 x 2.4
4 x 10	1.2 x 3.6
6 x 6	1.8 x 1.8
6 x 8	1.8 x 2.4
6 x 10	1.8 x 3.6
8 x 8	2.4 x 2.4
8 x 10	2.4 x 3.6
8 x 18	2.4 x 5.6


Typical Pollutant Removal ²	
TSS ³	90%
Phosphorus ⁴	50%
Nitrogen	20%
Copper	40%
Zinc	80%

²Median removal efficiencies of paired data from over 500 sand filters with similar dimensions. Data submitted by independent researchers to International BMP Database. Retrieved from <http://www.bmpdatabase.org> on 10/23/17

³Data from New Jersey Corporation for Advanced Technology (NJCAT)

⁴Phosphorus Removal estimate does not include results from compost filters

Treated Pollutants

-  Metals (zinc, cadmium, lead)
-  Nutrients (phosphorus, nitrogen)
-  Very fine particles
-  Oil & hydrocarbons
-  Trash & floatable debris

¹Contact Hydro International to confirm availability in your area.



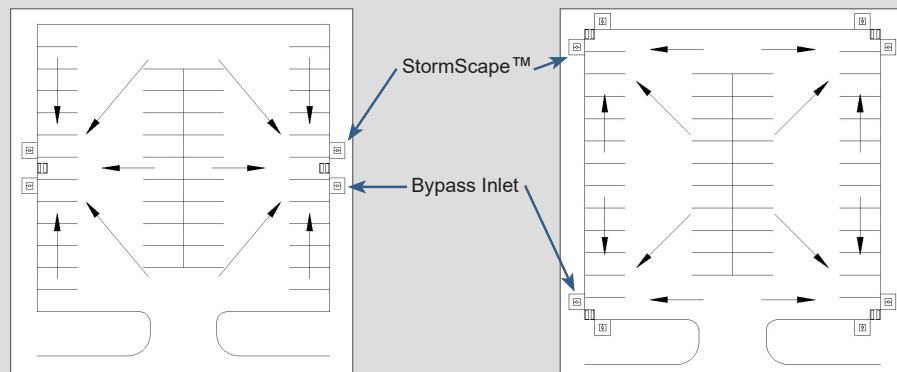
Hydro StormScape™ with curb inlet



Hydro StormScape™ with Internal Bypass

Site Design for Surface Gradation

The slope and camber of the road or parking lot should be set to encourage flows into the StormScape™. Where required, a diversion inlet may be incorporated into the system design to divert extreme flows to a separate bypass inlet using conventional hydraulic design criteria for flow over paved surfaces. The surface flow path should be designed to encourage cross linear flow along the curb line in front of the StormScape™ inlet.



Low points at sides.

Low points at corners.



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StormScape_SS_D_2206

Download Drawings

→ hydro-int.com/stormscapedrawings

Access the Operation & Maintenance Manual

→ hydro-int.com/stormscapeOM