



CONTECH[®]
ENGINEERED SOLUTIONS
A QUIKRETE[®] COMPANY

The Stormwater Management StormFilter[®]



The experts you need to solve your stormwater challenges



Contech is the leader in stormwater solutions, helping engineers, contractors, and owners with infrastructure and land development projects throughout North America.

With our responsive team of stormwater experts, local regulatory expertise and flexible solutions, Contech is the trusted partner you can count on for stormwater management solutions.

Your Contech Team



STORMWATER CONSULTANT

It's my job to recommend the best solution to meet permitting requirements.



STORMWATER DESIGN ENGINEER

I work with consultants to design the best approved solution to meet your project's needs.



REGULATORY MANAGER

I understand the local stormwater regulations and what solutions will be approved.



SALES ENGINEER

I make sure our solutions meet the needs of the contractor during construction.

Contech is your partner in stormwater management solutions



Flexible Stormwater Filtration Technology

An 8' x 24' Stormwater Management StormFilter with 60 cartridges is used to remove pollutants from runoff at Surfers Point Beach in Ventura, California.

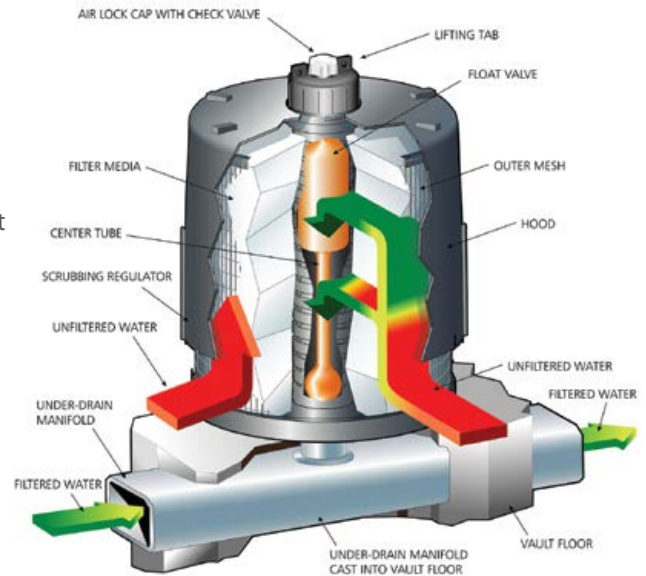
As stormwater quality regulations become more stringent, engineers need a filtration device that can tackle the most challenging pollutants and provide the flexibility to meet the needs of a variety of sites.

The Stormwater Management StormFilter® is an underground stormwater treatment device that houses rechargeable, media-filled cartridges that trap particulates and adsorb pollutants from stormwater runoff such as total suspended solids, hydrocarbons, nutrients, metals, and other common pollutants. With media options to target multiple or specific pollutants and multiple system configurations, the StormFilter provides engineers with a flexible and reliable manufactured treatment technology. Its performance has been verified through field and laboratory testing by some of the most stringent stormwater technology evaluation organizations.

The Stormwater Management
StormFilter®

How the StormFilter Treats Stormwater

- During a storm, runoff passes through the filtration media and fills the cartridge center tube, purging air through a one-way check valve.
- As the water rises, the float releases and establishes a siphon that draws water evenly through the full media bed.
- After the storm, falling water levels maintain the siphon until air enters through the scrubbing regulators.
- The incoming air breaks the siphon and agitates the media surface, causing accumulated sediment to settle to the treatment bay floor and helping extend cartridge life.



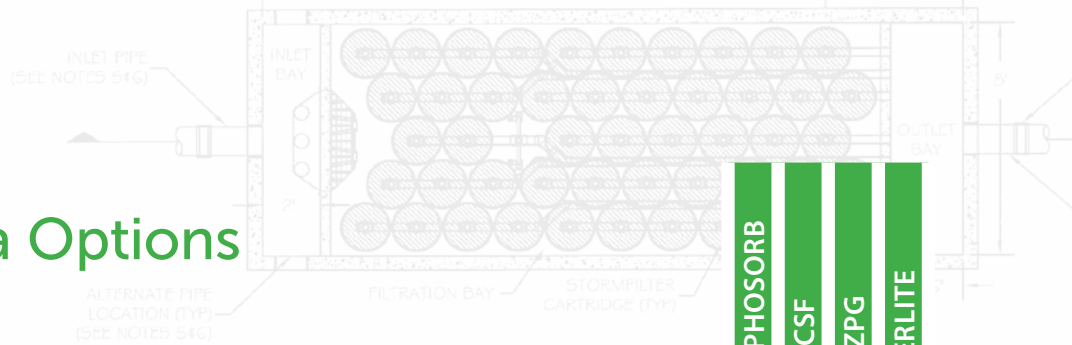
The StormFilter has a 25+ year history of successful installations and over 250,000 cartridges installed worldwide.

Learn More:
www.ContechES.com/stormfilter

FEATURE	BENEFIT
Siphon-actuated, high-surface area media cartridges	Stormwater is drawn evenly through the filter media providing efficient, effective stormwater treatment
Multiple cartridge heights	Flexibility to meet site-specific hydraulic needs and reduce system size and costs
Multiple media options	Ability to target specific pollutants of concern including TSS, phosphorus, and heavy metals
Internal peak bypass and multiple configurations	Design flexibility to meet your unique site requirements
Maintenance intervals of one to five years	Fewer maintenance events and reduced long-term ownership costs
NJDEP Certified and WADOE General Use Level Designation for Basic and Phosphorus Treatment	Certified pollutant capture with confidence
Arrives to the jobsite fully assembled	Factory assembly ensures quality and a simple, fast installation onsite

Design flexibility to meet your unique site requirements

StormFilter Media Options



Flexibility to target site-specific pollutants ...

- PhosphoSorb® is a lightweight media built from a perlite base that removes total phosphorus (TP) by adsorbing dissolved-P and filtering particulate-P simultaneously.
- CSF® Leaf Media is created from deciduous leaves processed into granular, organic media. CSF is most effective for removing soluble metals, TSS, oil and grease, and buffering acid rain.
- ZPG™ - A proprietary blend of zeolite, perlite, and GAC to improve the performance of perlite and target organics, soluble metals, and other pollutants.
- Perlite is naturally occurring puffed volcanic ash. Effective for removing TSS and particulate-bound pollutants.

	PHOSPHOSORB	CSF	ZPG	PERLITE
Sediment	✓	✓	✓	✓
Soluble Metals	✓	✓	✓	
Organics		✓	✓	
Nutrients	✓	✓	✓	
Total Phosphorus	✓			

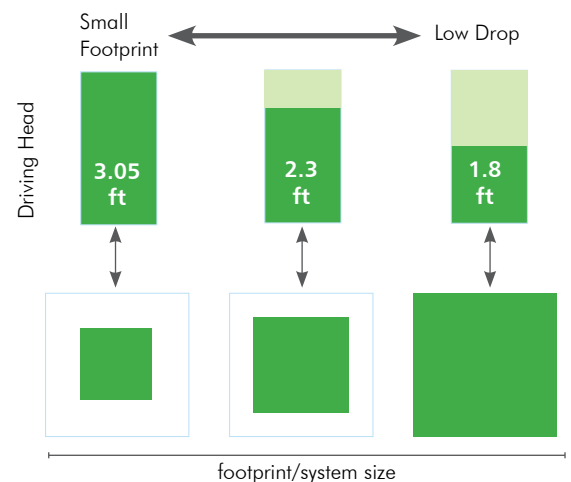
Note: Indicated media are most effective for associated pollutant type. Other media may treat pollutants, but to a lesser degree.

Cartridge Options

Flexibility to reduce size and costs ...

Every site is different, and one size does not fit all. Multiple cartridge heights provide the flexibility to configure the StormFilter specifically for your site and reduce system costs for the owner.

- 27" cartridge – Capitalizes on sites with at least 3.05 feet of available driving head, media surface area is maximized to allow the greatest treatment rate per cartridge; best for sites with footprint constraints.
- 18" cartridge – Provides a middle ground and operates with 2.3 feet of driving head.
- Low Drop (LD) – Provides filtration treatment with only 1.8 feet of headloss; best for sites limited by hydraulic constraints.



CARTRIDGE FLOW RATES			
Cartridge Height	2 gpm/ft ²	1.67* gpm/ft ²	1 gpm/ft ²
12" LD	10 gpm	8.35 gpm	5 gpm
18"	15 gpm	12.53 gpm	7.5 gpm
27"	22.5 gpm	18.79 gpm	11.25 gpm

* For use with Phosphosorb media as per WA DOE GULD approval.

MASS LOAD CAPACITY			
Cartridge Height	2 gpm/ft ²	1.67* gpm/ft ²	1 gpm/ft ²
12" LD	15 lbs	18 lbs	24 lbs
18"	22.5 lbs	27 lbs	36 lbs
27"	33.8 lbs	40.45 lbs	54 lbs

* For use with Phosphosorb media as per WA DOE GULD approval.

Configurations

Flexibility to accommodate flows, project footprints, and hydraulics ...

Standard configurations include catch basin, manhole, vault, curb inlet, peak diversion, and cast-in-place.

- **The Peak Diversion StormFilter** provides treatment and high-flow bypass in one precast vault, eliminating the need for an external bypass or junction structures.
- **The Cast-in-Place StormFilter** structures allow the highest degree of flexibility and are available for installations within buildings or other areas where precast structures cannot be accommodated. On-site contractor assistance is provided to ensure the finished product meets Contech's standards for fit and function.



Select StormFilter Approvals

The StormFilter has been verified by some of the most stringent stormwater technology evaluation organizations in North America, including:

- Washington State Department of Ecology (TAPE) GULD – Basic, Phosphorus
- New Jersey Department of Environmental Protection (NJ DEP)
- Canada ISO 14034 Environmental Management – Environmental Technology Verified (ETV)
- North Carolina Department of Environmental Quality (NC DEQ)
- Maryland Department of the Environment (MD DOE)
- Texas Commission on Environmental Quality (TCEQ)
- Virginia Department of Environmental Quality (VA DEQ)
- Maine Department of Environmental Protection (ME DEP)
- St. Louis Metropolitan Sewer District
- Sacramento Stormwater Quality Partnership (SSQP)

Verified by some of the most stringent organizations

StormFilter Maintenance



APPLICATION TIPS

- Clogging is a major factor in the failure of filter systems. Look for systems that offer mechanisms that prevent clogging, extend service life, and reduce life-cycle cost.
- A compact design reduces construction, installation, and life-cycle cost, so look for systems that offer the most flexibility in design and construction.
- All media filters will eventually need to be replaced. Look for filters that have lightweight cartridges and provide easy access for maintenance.



An easy-to-access treatment system can make all the difference in maintenance expenses.

The StormFilter is designed for simple, predictable maintenance that helps reduce long-term operating costs. All StormFilter structures provide easy access for inspection, media replacement, and cleaning.

StormFilter maintenance typically includes:

- Removing accumulated sediment and debris from the treatment bay.
- Inspecting cartridges and replacing media as needed, typically every 1–5 years depending on site conditions.
- Cleaning the structure and confirming that inlet, outlet, and drainage components are clear.
- Replacing cartridges as needed. Replacement cartridges can be shipped to the site ready to install, with used cartridges returned for refurbishment.
- Using Contech Certified Maintenance Providers for inspection, cleaning, and cartridge replacement, if desired.

A partner you can rely on



PIPE
SOLUTIONS



STORMWATER
SOLUTIONS



STRUCTURE
SOLUTIONS

Few companies offer the wide range of high-quality stormwater resources you can find with us — state-of-the-art products, decades of expertise, and all the maintenance support you need to operate your system cost-effectively.

MANUFACTURING AMERICA'S INFRASTRUCTURE™

We manufacture engineered solutions for complex civil infrastructure challenges and create lasting value for project stakeholders through unrivaled expertise, support and workmanship.

To us, it's about being a trusted partner for project owners, engineers and customers while doing meaningful work that helps build our communities.

TAKE THE NEXT STEP

For more information: www.ContechES.com

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