

BIO MICROBICS®

RAINWATER FILTRATION DEVICE

d-Rain Joint®



Satisfy permeable requirements
with pour-in-place concrete



For parking lots, driveways,
& other hardscape environments



Low cost, no maintenance, and durable



**AWARD-WINNING
INTEGRATED WATER
TECHNOLOGY**

**ADVANCED RAINWATER TREATMENT PROCESS
RESIDENTIAL • COMMERCIAL • PUBLIC WORKS**

BETTER WATER. BETTER WORLD.®

www.biomicrobics.com

SIMPLE • LOW

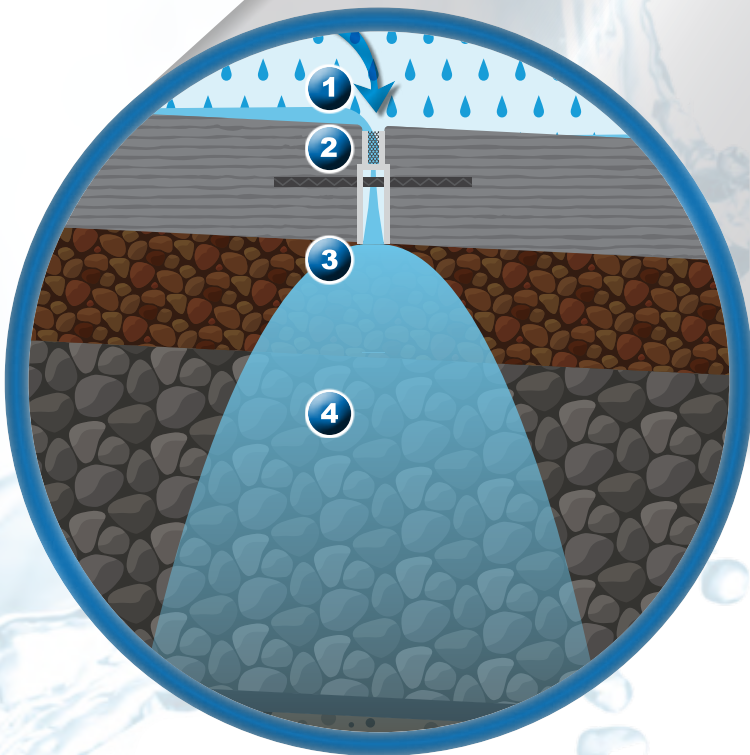
RAINWATER FILTRATION DEVICE d-Rain Joint®

Permeable Drainage Alternative

As a Sustainable Drainage System, the d-Rain Joint® is a simple, low-cost, and robust onsite storm water management alternative compared to other permeable, pervious surface options and can be used wherever a permeable, pervious driveway, parking lot, street or walkway is needed. The use of traditional pavement with the d-Rain Joint® provides both permeability AND filtration at a lower installed cost!

d-Rain Joint® PPIC (Gray Plastic) Filtration Device

Easy to install like a standard expansion joint and virtually undetectable between concrete slabs, the ADA-compliant d-Rain Joint® (flexible plastic) drainage channel system is less than 1" [2.5 cm] wide and available on 8' [2.43 m] lengths. The d-Rain Joint® PPIC Device is stackable to 4" [10.1 cm], 6" [15.2 cm], and 8" [20.3 cm] height for typical patio installations to heavy traffic pavements.



Install d-Rain Joint® systems directly in local concrete and hardscape surfaces.



The channel-inserted filter captures sediment to ensure continued effectiveness of the system at a maximum rate of 2 GPM [7.5 LPM] per linear foot. These devices and systems provide the treatment and filtration of contaminants from runoff, ensuring that your surface has adequate drainage while controlling pollutants from runoff, and recharging groundwater sources instead.

HOW IT WORKS!

- 1 As rainwater washes across impervious surfaces, various pollutants including sediment, oils, debris and other substances flow into the storm drain.
- 2 ADA-compliant (width size: $\frac{13}{16}$ " [0.2 cm] with a $\frac{7}{16}$ " [1.1 cm] opening), the standard height is 4" [10.1 cm] with a standard length of 8' [2.4 m]. Filter media comprises of 10PPI and easily pulls out for replacement.

NOTE: The d-Rain Joint® PPIC Device is stackable from 4" to 6" [10.2 cm to 15.2 cm] and 8" [20.3 cm] height for heavy traffic pavements.

- 3 Surface water is directed to a standard drainage bed under the surface that allows the oxygenation of water at 2 gallons [7.6 liters] per minute per linear foot.
- 4 Through 4" [10 cm] bed of $\frac{3}{8}$ " [0.9 cm] gravel and 12" [30 cm] bed of $\frac{1}{2}$ " [1.2 cm] gravel, the rainwater percolates back into the soil. (Local soil designs may vary.)

COST • ROBUST

Install in any residential or commercial applications:



Residential



Commercial



Public Works

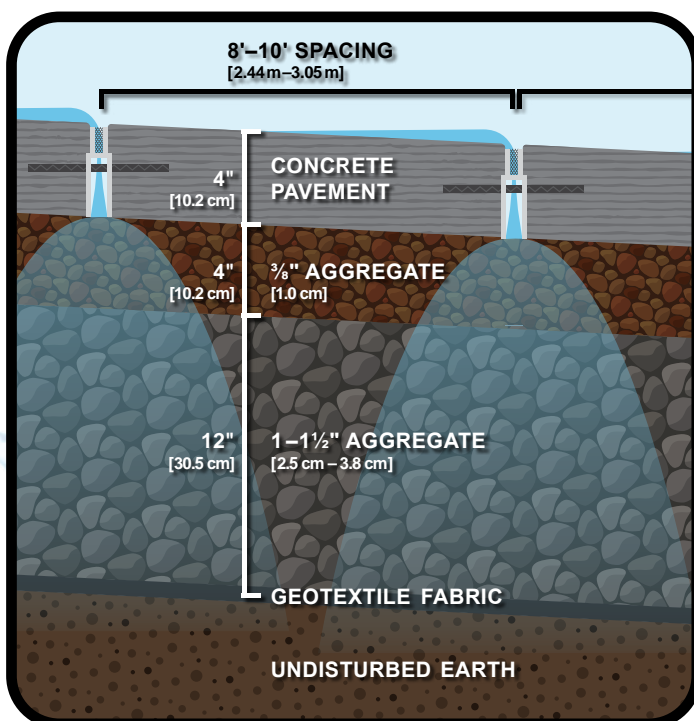
- Driveways
- Pathways
- Parking lots
- Alleys
- Parking Garages
- Storage areas
- Walkways/sidewalks
- ...and more!

Developed to satisfy permeable, pervious driveway requirements, the d-Rain Joint® devices provide stormwater infiltration through an impervious surface. The d-Rain Joint® channel-inserted filter captures sediment to ensure continued effectiveness draining rainwater and stormwater runoff.

Installed in place of a construction joint between the concrete slab(s) and can be used for low traffic roadways and driveways, parking lots and pedestrian walkways, this ADA-compliant (less than 1" [2.5 cm] wide with a 7/16" [1.1 cm] opening) exterior linear drain filter expansion joint puts filtered rainwater in the underneath gravel detention area of the pavement, thus increasing the usable surface and eliminating costly storm water drainage infrastructure.

- Adaptive filtration designs that fit any size catch basin
- Scalable filtration options with flexible media selection to address site-specific needs
- Working in partnership with our customers to help achieve your water quality goals

The product is highly durable and gives stormwater a path to a subsurface drainage bed in a driveways, large patio installations, and public walkways. This "Pavement Rainwater Filtration" device allows for onsite rainwater management and groundwater recharging.



BioMicrobics Stormwater Treatment Systems and Devices are:

- **COST-EFFECTIVE.** Adds nominal costs to standard installation of surface in lieu of a drainage network.
- **EASY INSTALLATION.** Installs using standard practices and equipment.
- **LOW-MAINTENANCE.** Simple to clean, no need to remove any of the components.
- **IMMEDIATE STORAGE CAPACITY.** With aggregate type/depth tailored for local needs.
- **STRENGTH AND DURABILITY.** Safe for heavy vehicles and snow removal.
- **TREATS STORMWATER ONSITE.** Environmentally sound option to contain runoff onsite.



Established in 1996 to focus on water ecology and technology innovation through three companies, BioMicrobics, SeptiTech, and Scienco/FAST are at the forefront of sustainable design and with more than 80,000 installed systems in over 80 countries. Our systems meet the highest performance standards for

treatment of water, greywater, wastewater, stormwater, and more! BioMicrobics has developed a number of innovative products dealing with the treatment of water where centralized infrastructure and drainage are not desired. Our systems are designed and engineered with sustainability and user practicality in mind.

RAINWATER FILTRATION DEVICE
d-Rain Joint

A simple, filtered drain alternative for storm water runoff on hard, impervious surfaces.



INNOVATIVE ONSITE RAINWATER PRODUCTS

www.biomicrobics.com

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