

# STORMKLEENER™

CARTRIDGE FILTER SYSTEM

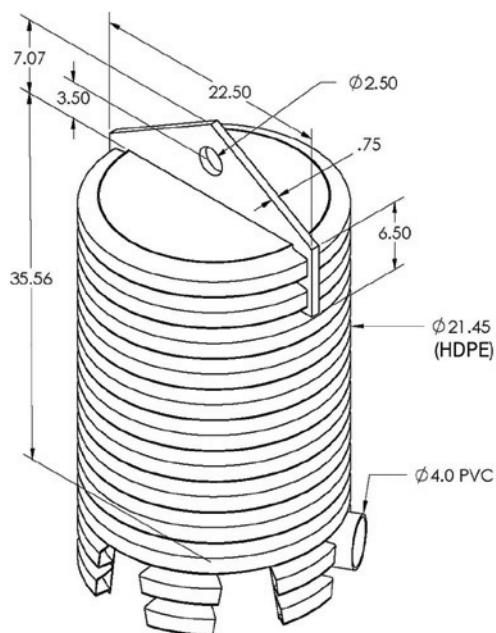
## StormKleener™

The Lane StormKleener™ Filter Cartridge System is a storm water treatment device consisting of one or multiple cylindrical media filled cartridges housed in a containment or carrier vessel. The containment vessel can be constructed from any appropriate material including: corrugated metal pipe, plastic pipe, or a reinforced concrete vault. The Lane StormKleener™ Filter Cartridge System is a passive flow-through filtration system that filters and cleans storm water to provide exceptional pollutant removal during storm events, while providing a naturally occurring backwash to enhance and extend the life of the cartridge.

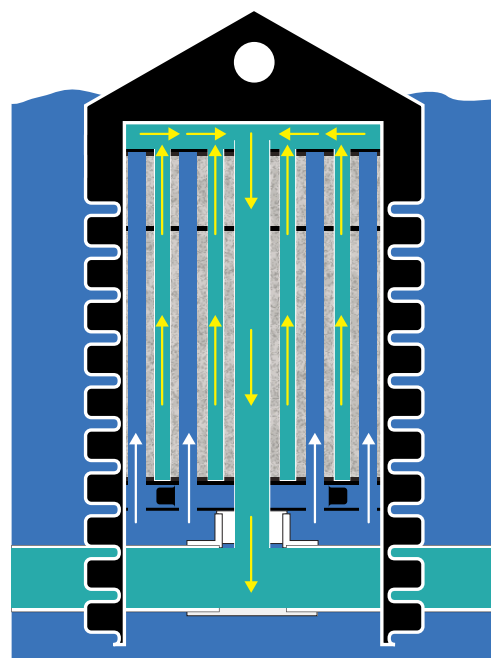
The Lane StormKleener™ Filter Cartridge System has been extensively tested and has completed the New Jersey Corporation for Advanced Technology (NJCAT) testing protocol for filters passing the requirement for over 80% total suspended solid removal.

### StormKleener™ Dimensions

Size Height	36.56"
Total Height	43.63"
Diameter	21.45"
Flow Capacity	30 gpm



- Inlet Water
- Filtered Water
- Filter Media



NOTE: Dimensions are in inches unless otherwise noted.

# StormKleener™ Specifications

## Components

- **Precast Concrete Vault:** Shall be manufactured in accordance with ASTM C478, C858, and C1433. Concrete vault shall be provided by Lane Enterprises or Lane approved supplier.
- **CMP Vault:** Shall be manufactured in accordance with ASTM A760, A762, or B745. CMP vaults shall be provided by Lane Enterprises.
- **If PVC manifold piping is required in the structure, all pipe and fittings will meet ASTM D1785.** Piping shall be provided to the Contractor pre-cut and partially assembled. Instructions and marking for pipe connections will be included.
- **Filter Cartridges:** The cartridge shell shall be manufactured from Lane Enterprises' Corrugated Dual wall HDPE pipe and other HDPE components. Each filter cartridge is capable of a flow capacity of 30gpm.
- **Filter Media:** Filter media shall be Lane Enterprises' Filter media and shall consist of effective particle size of not more than 0.42mm, a hardness of 7, and be 99% silica; with no leaching of nutrients. Media blends may also include perlite, charred wood, activated alumina, and other media as required.

## Performance

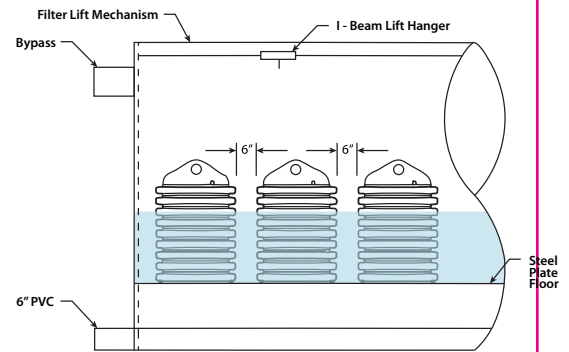
- The Lane StormKleener™ Filter Cartridge System is capable of offline or online treatment and should be designed to treat 100% of the required treatment flow.
- The filter shall have no moving parts.
- The StormKleener™ Filter Cartridge System shall be designed to remove at least 80% of total suspended solids based on testing completed in compliance with the NJCAT Filter testing protocol.
- The StormKleener™ Filter Cartridge System shall be capable of backwashing after storm events to extend the filter life and increase performance. Flow through the filters shall be up flow.

## Installation

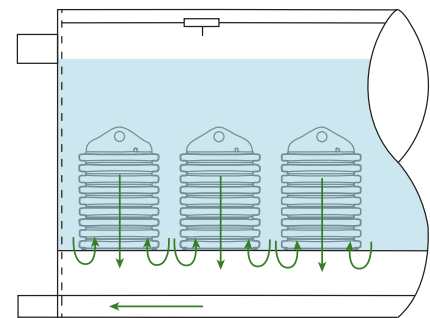
Installation of the StormKleener™ Filter Cartridge System shall be in accordance with Lane Enterprises' installation instructions.

### MANUFACTURER'S WARRANTY

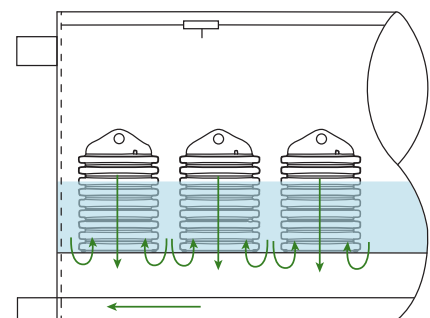
Lane ensures, certifies and documents that StormKleener™ Filter Cartridge System shipped to the job site meets the above claims and standards, and warrants the product is free of any material or workmanship defects.



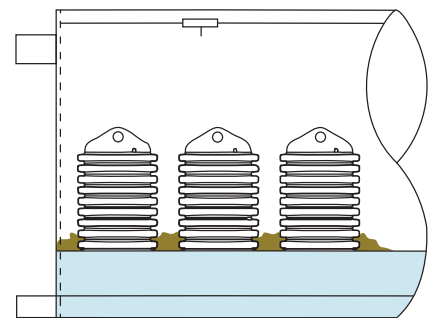
**Charging / Filling Operation**



**Traditional Flow Under Head**



**Siphon Flow**



**Siphon Break and Backwash**

