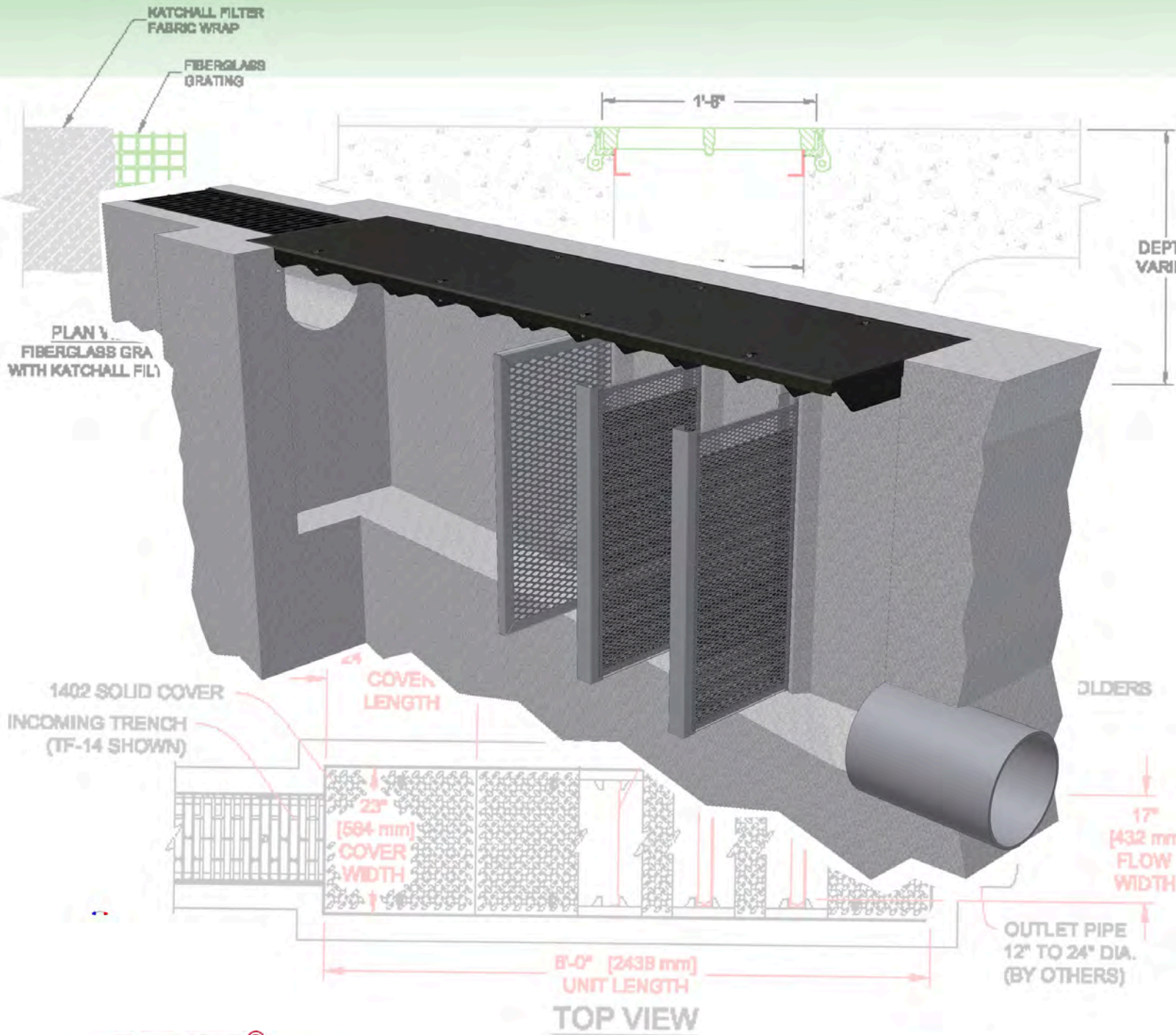


FirstFlush™

A BMP Solution for Storm Water Drainage



ABT, INC.

Advanced Building Technologies

www.abtdrains.com
Today's Hydraulic Solutions



ABT's FirstFlush filtration is custom designed for Clean Water Act compliance

Compliance with Phase Two of the Clean Water Act (CWA), specifically the requirements of the National Pollutant Discharge Elimination System (NPDES) permit program, demands the use of Best Management Practices (BMP). Based on these requirements, ABT offers a family of products called FirstFlush.

Both the private and public sector are now compelled to treat storm water runoff from sites such as:

- Parking lots
- Auto sales and repair lots
- Trucking facilities
- Manufacturing yards
- Waterfront cargo ports
- Container terminals
- Roadways
- Curblines

ABT introduces the FirstFlush Storm Water Filtration Systems

FirstFlush is the perfect solution when seeking a BMP that must handle sheet flow, control vectors, collect debris, treat e-coli bacteria, and capture hydrocarbons—all on the same site. Their range of sizes makes them perfect for sites with limited space for treatment structures.

Our drive to develop innovative BMP technology to address CWA requirements is a logical extension of our efforts to create solutions for the storm water engineer. For more than 20 years, ABT has brought new thinking to surface drainage design. Our family of FirstFlush

products is a perfect example of ABT's approach to problem solving.

We designed FirstFlush for sites under 100 acres where specific pollutants — oils, greases, and other hydrocarbons — must be captured without impeding bypass flow, particularly during the first fifteen minutes of rainfall or "first flush" effect.

Clearly, any given BMP cannot satisfy every application. FirstFlush products address specific "surgical" type applications, and effective BMP's can be developed using FirstFlush treatment structures alone. However, when FirstFlush units are combined with our PolyDrain or MD/HD line drainage systems, the result is a truly comprehensive collection and treatment system.* The combination of a continuous inlet line drain and FirstFlush meets the demands of the civil engineer when sheet flow, allowable spread, and CWA must be considered.

- **Space restricted sites** FirstFlush technology is perfect for sites that lack the necessary area for retention ponds and larger structures.
- **Industrial point sources** where excessive fuel and petroleum product residues are present — automotive operations, transportation hubs, manufacturing facilities, seaports, container transfer terminals — anywhere sheet flow interception is highly critical.
- **Roadway applications** where allowable spread drives the design and hydraulic capacity cannot be limited; curblines, parking lots.
- **Retrofit projects** where a new storm water collection system is cost prohibitive.

Fast and easy maintenance equals maximum BMP effectiveness

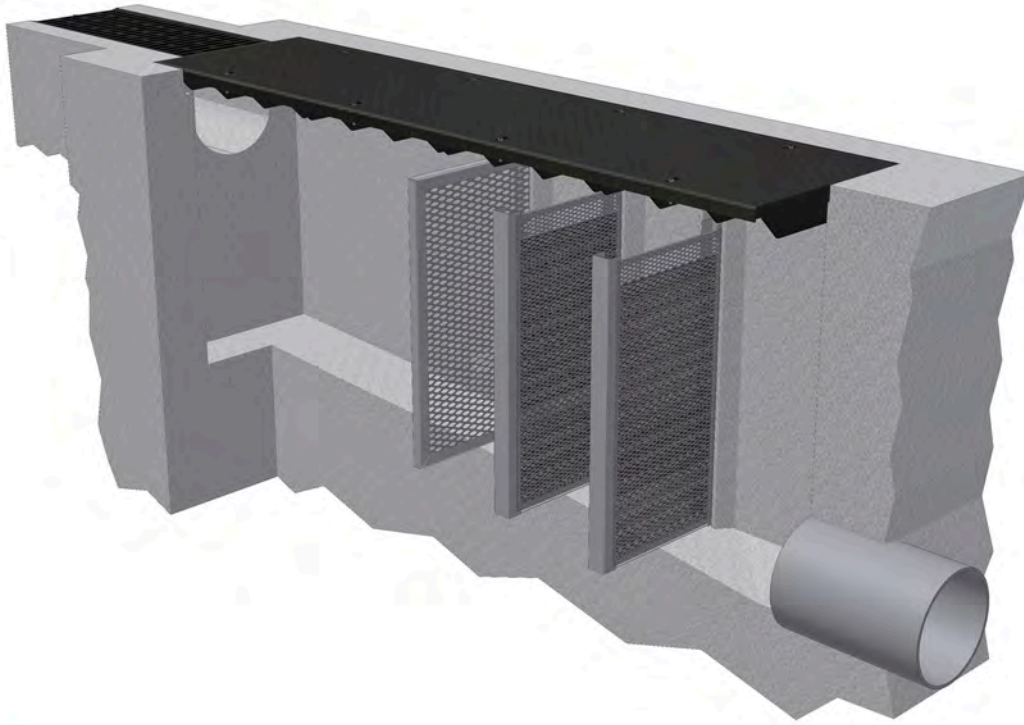
Any system can lose effectiveness quickly without proper maintenance. Ease of installation and maintenance were designed in with highly effective but lightweight screens and filter packages that can be removed and replaced quickly and easily. These products are available in various shapes and sizes, designed to conform to the particular unit; inserts, pillows and filtration packs.

ABT Inc. FirstFlush with Katchall Filter Media

- *Unobstructed flow-rates of .45 CFS per square foot / surface area*
- *Filters fine particulates to <50-microns (diameter of a human hair)*
- *Removes 97%+ of Hydrocarbons, Oils, Greases, Byproducts*
- *Removes 55%+ of Heavy Metals (soluble and non-soluble)*
- *Removes 65%+ of Nutrients*
- *Removes 55% of Phosphorus, Phosphates, Nitrates*
- *Kills 99.99% of any single-cell microorganism, i.e. Bacteria, Viruses, Algae, Mold, Mildew and their associated odors.*
- *Permanently bonded to fabric, does not leach, or diminish over time.*

* Refer to one of the following ABT, Inc. publications:

PolyDrain, Interceptor, MD200/300 and HD200/300.

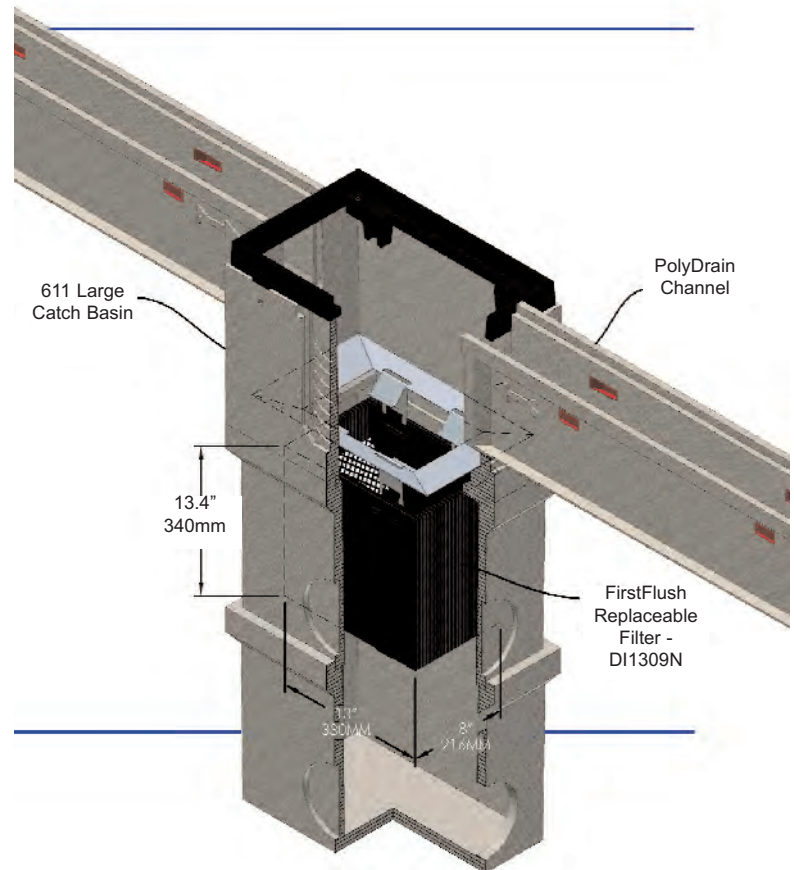
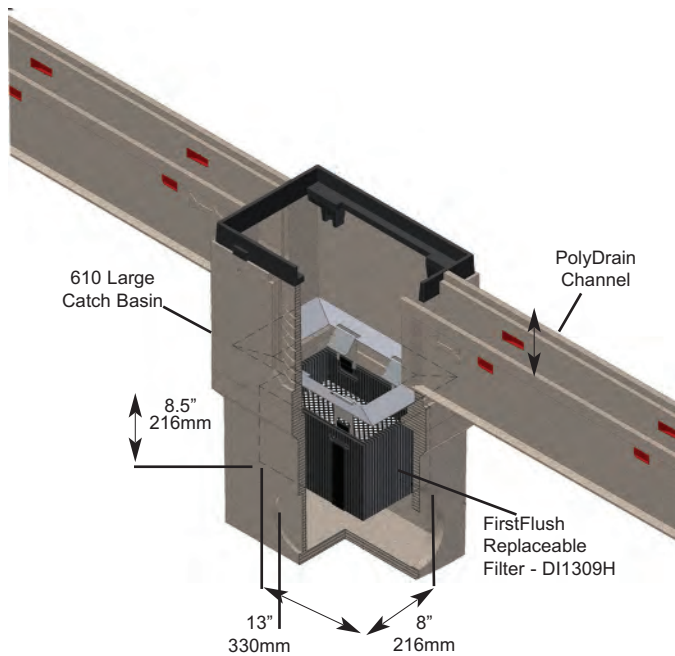


1640FF

The FirstFlush 1640FF, our largest capacity design, uses ABT's patented forming technology to create a highly durable concrete component. As effluent enters, either through an inlet pipe or from a pre-sloped line drain, the first chamber captures solid debris. Stormwater then passes through two removable filter panels before exiting. The pre-sloped bottom eliminates ponding, an excellent feature where vector (mosquito) control is an issue. The 1640FF is provided with solid covers.

2611FF

This three-part, stackable structure is made of polymer concrete and comes with a grated cover. It can be used in conjunction with PolyDrain line drain or as a stand-alone. The basket insert that holds the replaceable filter has built-in overflow relief. Units are easy to inspect and clean. Basket and filter modules can be retrofit to existing PolyDrain 611 catch basins.



2610FF

The 2610FF is similar to the 2611FF in every way but is a shallower unit with only two stackable sections. It includes a smaller basket and filter module.

FirstFlush Q & A

Q: Can I add a FirstFlush unit to my existing line drains or catch basins?

A: Yes you can. If a standard unit does not fit, contact ABT for a custom design fabrication.

Q: What type of maintenance does FirstFlush require?

A: Regular pavement maintenance (vacuum and debris control) is recommended to maximize the interval of filter change.

Q: How often do I need to change the filters?

A: Depending on the pollutant load, several times to once a year. Monitoring the initial installation closely for the first three months is recommended to determine the frequency of changes.

Q: How do I choose the right FirstFlush product for my application?

A: Existing structures will determine the type and size of the units. New units will generally be sized according to the hydraulic load, invert location, outlet size, and pollutant load. Utility conflicts and available land will also factor in the FirstFlush selection.

Put the FirstFlush BMP solution to work for you.

For a complete set of specifications on FirstFlush systems, contact ABT at 1-800-438-6057.
Or email: firstflushinfo@abtdrains.com



ABT, INC.

Other fine products
from ABT Inc.