

# ICC-ES Report

# PMG-1133

ICC-ES | (800) 423-6587 | (562) 699-0543 | [www.icc-es.org](http://www.icc-es.org)

Reissued 04/2017  
This report is subject to renewal 04/2018

EVALUATION SUBJECT:

## EZFLOW AND EZ-DRAIN SEPTIC LEACH DISPOSAL, PERIMETER DRAIN, FOUNDATION DRAIN OR FRENCH DRAIN

**DIVISION:**

07 00 00—THERMAL AND MOISTURE PROTECTION

**SECTION:**

07 11 00—DAMP PROOFING

**DIVISION:**

22 00 00—PLUMBING

**SECTION:**

22 30 00—PLUMBING EQUIPMENT

22 14 13—FACILITY STORM DRAINAGE PIPING

Report Holder:

**EZFLOW L.P.**

**A WHOLLY OWNED SUBSIDIARY OF INFILTRATOR WATER TECHNOLOGIES, LLC**

4 BUSINESS PARK ROAD  
PO BOX 768  
OLD SAYBROOK, CT 06475



Look for the ICC-ES marks of Conformity!



## ICC-ES PMG Product Certificate

**PMG-1133**

Effective Date: April 2017

This listing is subject to re-examination in one year.



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A Subsidiary of the International Code Council®

CSI: DIVISION: 07 00 00 — THERMAL AND MOISTURE PROTECTION  
Section: 07 11 00 — Damp Proofing

DIVISION: 22 00 00 — PLUMBING  
Section: 22 30 00 — Plumbing Equipment  
22 14 13 — Facility Storm Drainage Piping

### Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: EZflow and EZ-Drain Septic Leach Disposal, Perimeter Drain, Foundation Drain or French Drain

Listee: EZflow L.P.  
A Wholly Owned Subsidiary of Infiltrator Water Technologies, LLC  
4 Business Park Road  
P.O. Box 768  
Old Saybrook, Connecticut, 06475

### Compliance with the following codes:

2015, 2012 and 2009 *International Plumbing Code*® (IPC)  
2015, 2012 and 2009 *International Residential Code*® (IRC)  
2015, 2012 and 2009 *International Private Sewage Disposal Code*® (IPSDC)  
2015, 2012 and 2009 *International Building Code*® (IBC)  
2015, 2012, 2009 and 2006 *National Standard Plumbing Code*  
*2014 and 2010 Florida Building Code*  
2012 *International Green Construction Code*® (IgCC)  
2013 and 2010 *National Building Code of Canada, Part 5, as applicable*  
2012 *British Columbia Building Code, Division B – Part 9, as applicable*  
2012 and 2006 *Ontario Building Code, Part 5 and Part 8, as applicable*  
2015, 2012 and 2009 *Uniform Plumbing Code*® (UPC)\*  
2016 *California Plumbing Code*® (CPC)\*

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### Compliance with the following standards:

IAPMO IGC 276-2011, Bundled Expanded Polystyrene Synthetic Aggregate Units  
CSA B182.8-2015, Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings

## Identification:

All packaging shall bear the manufacturer's name and/or trademark, model number and the ICC-ES PMG listing mark.

## Installation:

**General:** Manufacturer's published installation instructions shall be strictly adhered to and a copy of these instructions shall be available at all times on the jobsite during installation.

**Foundation Drain:** Drainage systems shall be provided around all foundations that retain earth and enclose habitable or usable spaces located below grade. Approved systems shall be installed at or below the area to be protected and discharged by gravity or mechanical means into an approved drainage system as prescribed in Section R405 of IRC, Section 306.0 and 1111.1 of IPC, Section 1805 of IBC, Section 314.0 of UPC, Section 314.0 and 1101.6 of CPC, Section 904.3 of IgCC and Section 1805 of the Florida Building Code.

The 0700 series of model is installed on foundation walls that are up to 20 concrete masonry units high [170 inches (4318 mm)].

The 0800 and 1000 series of models are installed on foundation walls that are up to 20 concrete masonry units high [170 inches (4318 mm)].

The 1200 and 1500 series of models are installed on foundation walls that are greater than 20 concrete masonry units high [170 inches (4318 mm)].

In Canada, the product serves as a substitute for pipe, mineral aggregate/gravel, and filter membrane (where manufactured with a filter membrane outer encasement). Integrated PE pipe used for the conveyance of perimeter drain, foundation drain or French drain water in gravity-flow systems shall be installed as prescribed in Sections 1-4, 5.3.1, 6.3.2, 6.4.1, 6.4.3, and 7.1 of CSA B182.11-15; Division B – Part 9 Sections 9.14.3.2, 9.14.3.3(1), 9.14.4.2, and 9.14.4.3 of the British Columbia Building Code; applicable sections of Part 5 of the Building Code of Canada; or applicable sections of Part 8 of the Ontario Building Code, as applicable.

**Septic Tank Drain Lines:** Effluent from septic tanks and other approved treatment tanks shall be disposed of by soil absorption or an approved manner as prescribed in Section 602 of IPSDC, Section H301.0 of UPC, Section H301.0 and H601.0 of CPC and Chapter 16 of the National Standard Plumbing Code.

See the manufacturer's installation instructions to determine the required diameter, configuration and length of units for the applicable installation.

In areas where the UPC is implemented, Section H601.2 permits for this product to be used in lieu of pipe and filter material.

In Canada, the product serves as a substitute for pipe, mineral aggregate/gravel, and geotextile or kraft paper (where manufactured with a pre-inserted geotextile) in a septic tank drain line. Integrated PE pipe used for the conveyance of sanitary effluent in gravity-flow systems shall be installed as prescribed in the Sections 1-4, 5.3.1, 6.3.2, 6.4.1, 6.4.3, and 7.1 of CSA B182.11-15 and/or the applicable sections of Part 8 of the Ontario Building Code, as applicable .

## Models:

**EZflow and EZ-Drain Septic Leach Disposal, Perimeter Drain, Foundation Drain or French Drain** – The product consists of cylindrically shaped, prefabricated bundled expanded polystyrene (EPS) synthetic aggregate units for use as a septic leach disposal system, perimeter drain, foundation drain or French drain. The product is used in lieu of stone aggregated and pipe in septic leach disposal systems, perimeter drains, foundation drains and French drains, thereby eliminating the need for stone aggregate and pipe. The external permeable outer containment layer forms a circumference, and consists of a tubular plastic open encasement comprised of netting, drainage mesh or a combination of netting and geotextile capable of transmitting water in or out of the product. Bundled EPS synthetic aggregate units may or may not include an integrated internal pipe,

depending upon the application. The product is supplied in 5-foot (1.5 m) and 10-foot (3 m) long sections.

Non-Traffic Area Only Models:

Model Series Number	Description
0700	7- inch (178 mm) diameter bundle
0800	8- inch (203 mm) diameter bundle
0900	9- inch (229 mm) diameter bundle
1000	10- inch (254 mm) diameter bundle
1200	12- inch (305 mm) diameter bundle
1300	13- inch (330 mm) diameter bundle
1400	14- inch (356 mm) diameter bundle
1500	15- inch (381 mm) diameter bundle
1800	18- inch (457 mm) diameter bundle

Note: Within each series, the model nomenclature represents the bundle diameter, the number of bundles and geometry of the product. For example, model 0701F-MESH represents one 7-inch (178 mm) diameter bundle with an integrated 3-inch (76 mm) diameter pipe and drainage mesh on the outside circumference. Model 1203H-GEO represents three 12-inch (305 mm) diameter side-by-side bundles with the center bundle containing an integrated 4-inch (102 mm) diameter pipe and all bundles having a pre-inserted geotextile beneath the netting on the outside circumference of the bundle.

Conditions of listing:

1. If the product is manufactured without a drainage mesh outer encasement, an approved filter membrane shall be used with foundation drain systems in accordance with the code.
2. If the product is manufactured without a pre-inserted geotextile, an untreated 60 lb kraft paper or minimum 0.5 oz non-woven geotextile shall be used with septic tank drain line systems.
3. Calculations shall be submitted to the authority having jurisdiction showing that the septic tank drain line system provides the required drainage field area when applying for permit.
4. The product is manufactured by EZflow L.P. with locations in Salisbury, North Carolina, Phenix City, Alabama, Monticello, Illinois, Dallas, Texas, and Portland, Oregon; under quality control programs with annual inspections conducted at the Salisbury, North Carolina and Phenix City, Alabama by ICC-ES.

