

Installation Instructions for EZflow Systems in West Virginia



The West Virginia Department of Health and Human Resources has issued approval for the use of **EZflow** 1201P and 1203H Drainfield Systems for household sewage systems in West Virginia.

All piping in each system shall meet or exceed the ASTM Standard F-405.

All sites shall meet the Construction and Installation Requirements in: Title 64, WV DOH Legislative Rules, Series 9 (5-1-98), Sewer Systems, Sewage Treatment Systems, & Sewage Tank Cleaners & Sewage Treatment, Collection System Design Standards, 64 CSR 47 & Design Standards for Individual & Onsite Sewage Systems, Section 64-47-61, (7-1-2003).

Prior to installation, Infiltrator Systems Inc. must certify installers in writing as having passed **EZflow** Certification Training.

Materials and Equipment needed

- **EZflow** Bundles
- **EZflow** Barrier Paper
- **EZflow** Internal Pipe Couplers
- Pipe for Header and Inlet
- Backhoe
- Laser, Transit, or Level
- Shovel & Rake

Installation Instructions

The instructions for installation of **EZflow** products are given below. This product must be installed in accordance with state rules cited above, as well as the local health department's rules.

1. After the local health department has determined sizing, configuration, and layout for **EZflow** systems, stake or mark with paint the location of trenches and lines. Be careful to set correct tank, invert pipe, header line or distribution box, and trench bottom elevations before installation of pipe bundles.
2. The proper elevation of solid PVC effluent pipe going to each trench should be determined to ensure compliance with the required maximum trench bottom depth as shown on the approved permit. This height may vary dependent on system height and configuration that is used.
3. The installation of the absorption field shall be so that the invert of the absorption field is a minimum of eight (8) inches lower than the invert of the sewage tank outlet.
4. The construction of standard soil absorption field is allowed for either level or sloping topography.
5. Excavate trench to permitted depth. Trench widths, by product, are shown in drawings below.
6. The **EZflow** 1203H Drainfield Systems should be installed in a minimum width of 36" and at a depth of 18 to 36 inches.

The **EZflow** 1201P Drainfield Systems should be installed in a minimum width of 12" and at a depth of 18 to 36 inches.

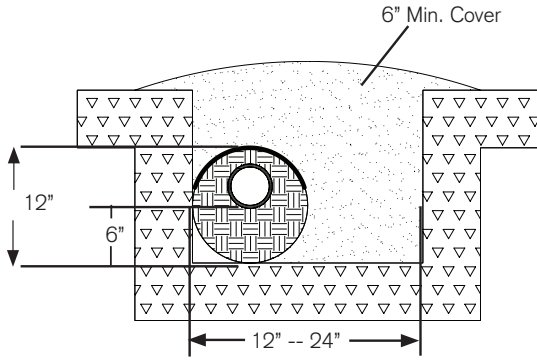
7. Trench systems shall have a minimum separation distance of 6 feet on center of undisturbed earth between trench sidewall.

8. **EZflow** EPS bundles are flexible and can fit in curved trenches as may be necessary to avoid trees, boulders, or other obstacles.
9. The construction of the bottom of each trench and its distribution line shall be level.
10. Construction of trenches shall be consistent with the topography and in such a manner so as to minimize the compaction or smearing of the sides and bottoms.
11. Trench construction shall not take place if the soil is so wet that it forms a "wire" instead of breaking apart when rolled between the hands. Excavation shall not take place during rain or inclement weather that may interfere with or preclude correct construction procedures.
12. Remove plastic **EZflow** shipping wrap prior to placing bundles in the trench(es). Remove any plastic wrap in the trench before system is covered.
13. Place **EZflow** bundle(s) in the **EZflow** configuration approved by system design permit specified for the particular site. The top or center-most bundles containing pipe are joined end to end with an internal pipe coupler. Any additional aggregate only bundles that may be required, should be butted against the other aggregate-only bundles and do not require any type of connection.
14. Effluent distribution pipe from septic tank or drop box, distribution box will be connected to top or center-most pipe bundle in each trench or inserted into the pipe.
15. Soil backfill within 12 inches of the cylinders, in trenches, shall be loosely placed and not compacted.
16. Performing the backfilling of the absorption field shall be in such a manner as to minimize compaction.
17. All EPS bundles should be covered across the top only with a barrier of building paper or other approved cover material.
18. A minimum of 6 inches of suitable backfill cover shall be placed over the **EZflow** bundles.
19. There shall be a mound of backfill over the system to allow for settling and to promote run-off from the system. There shall be no grading to the absorption field construction are after backfilling. There shall be no backfilling if the ground is frozen.

Repeat steps 1 thru 19 for each required trench.

Approved EZflow Products

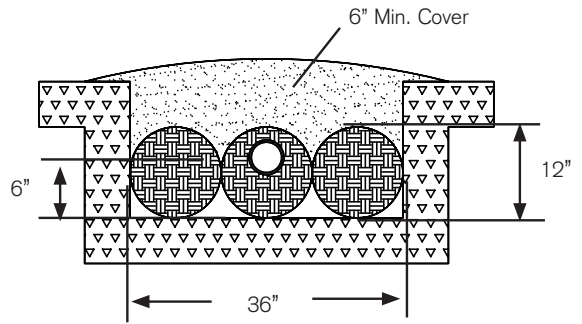
EZflow 1201P/1201P-GEO LPP



Properties and Specifications

Overall System Height	12"
Invert Height	6"
Trench Width	12-24"
Trench Depth	18"

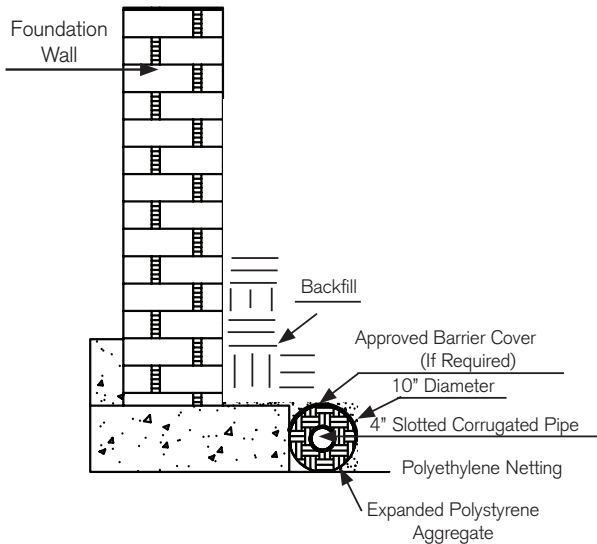
EZflow 1203H/1203H-GEO



Properties and Specifications

Overall System Height	12"
Invert Height	6"
Trench Width	36"
Trench Depth	24"

Foundation Drain Detail



EZflow 1201 Foot for Foot

This system was designed to replace the conventional method. The stone and pipe are replaced with a one piece unit, consisting of a 12" diameter aggregate bundle containing a 4" corrugated pipe. The pipe is situated so that there is 6" of aggregate below the pipe and 2" of aggregate above the pipe.

This system may be used to run your low pressure PVC pipe, enhancing uniform effluent flow and distribution..



INFILTRATOR[®]
systems inc.

6 Business Park Road • Old Saybrook, CT 06475 • 800.689.7759