Installation Instructions for EZ*flow* Systems in Ohio

The Ohio Department of Health has issued approval for the use of **EZ***flow* 1201-P, 1201-P-GEO, 1202H, and 1202H-GEO Leach Field Systems for household sewage systems in Ohio. Approval is contingent upon a one-to-one (1:1) equivalency sizing ratio with a standard aggregate/pipe leaching trench system as specified in Chapter 3701-29 of the Ohio Administrative Code (Household Sewage Disposal Rules). In addition, a 6' sidewall separation between trenches shall be required to avoid a bed configuration, which is allowed by code.

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

Materials and Equipment needed

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

Installation Instructions

The instructions for installation of **EZ***flow* products are given below. This product must be installed in accordance with state rules defined in Chapter 3701-29 of the Ohio Administrative Code (OAC), as well as the local health department's rules and current design manual.

1. After the local health department has determined sizing, configuration, and layout for **EZ***flow* 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 approved permit. Height may vary dependent on system height and configuration that is used.

3. Remove plastic **EZ***flow* stretch wrap prior to placing bundles in the trench(es). Remove any plastic stretch wrap in the trench before system is covered.

4. If the soil backfill to be used is granular, cohesionless soil (such as fine dry sand), it may be desirable to place a barrier over the assembly to prevent soil from infiltrating the system. This barrier may be of building paper or other approved cover material. Past experience with stone aggregate systems in this soil type should be used as a guide.

5. Place **EZ***flow* bundle(s) in the **EZ***flow* 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.

6. The top of each 1201-P-GEO and 1202H-GEO cylinder contains a filter fabric pre-manufactured in between the netting and aggregate. The fabric is inserted to prevent soil intrusion. The installer shall make sure that the fabric is on top for 1201-P-GEO and for 1202H-GEO product that it is in contact with the fabric contained in the adjacent cylinder before backfilling.

7. If not using a GEO product, **EZ***flow* systems require covering over the top of the system with a biodegradable material approved by the manufacturer.

8. Header or lead lines from distribution box or device will be connected to the top or center-most pipe bundle in each trench or inserted into the pipe.

9. The **EZ***flow* Drainfield Systems should be installed in a level trench, dug to a minimum width of 12" up to a maximum of 36", in all directions (both across and along the trench bottom). It should follow the contour of the ground surface elevation (uniform depth), with all continuous adjoining 10-foot cylindrical bundles placed end to end, with central bundle distribution pipe interconnected, without any dams, stepdowns or other water stops.

10. As with any system intended to transport fluid by gravity, the bed for the system should be at a maximum permissible downward grade in the direction of intended flow. Where runs are short, such as between weep holes in a retaining wall, the bed may be constructed level. For drainfields the bottom of the trench should be level.

11. **EZ***flow* EPS bundles are flexible and can fit in curved trenches as may be necessary to avoid trees, boulders, or other obstacles.

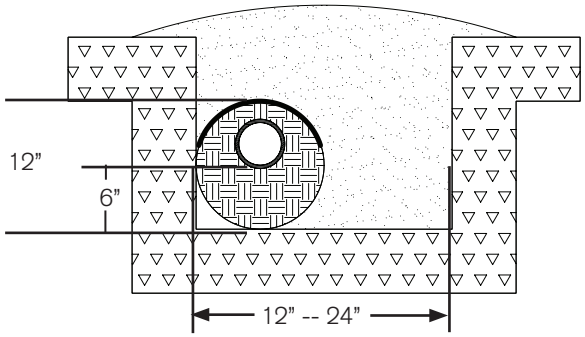
12. When using **EZ***flow* products in a repair or where water is present during installation, care should be taken to keep the water out of the trench during installation. This can be achieved by diverting the water to the side of the trench by digging a hole and allowing the water to drain out of the trench.

13. Final contours and landscaping should be done in a manner to promote surface water runoff.

Repeat steps 1 thru 13 for each required trench.

Approved EZ*flow* Products

EZ*flow* 1201P/1201P-GEO

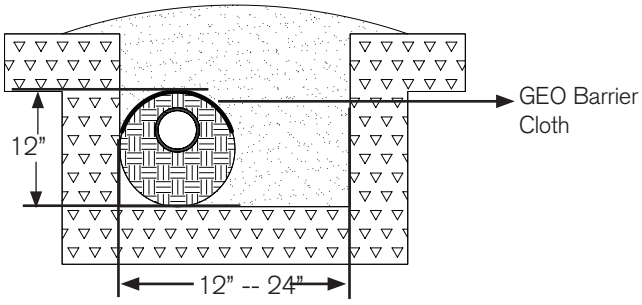


EZ*flow* 1201 Foot for Foot

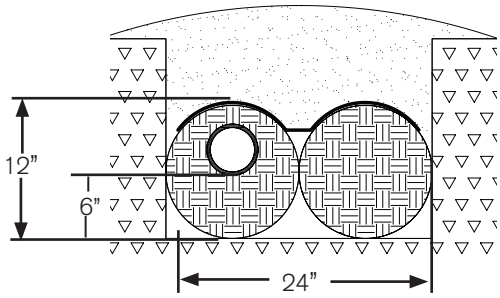
This system was designated to replace the conventional method. The stone and pipe are replaced with a one piece unit, consisting of a 12" diameter aggregate bundle containing a 4" corrugated pipe. The pipe is situated so that there is 6" of aggregate below the pipe and 2" of aggregate above the pipe.

Properties and Specifications

Overall System Height	12"
Invert Height	6"
Trench Width	12-24"
Min. Trench Depth	18"
Soil Interface Area	3.0
Storage Capacity (gal/ft)	4.89



EZ*flow* 1202H/1202H-GEO

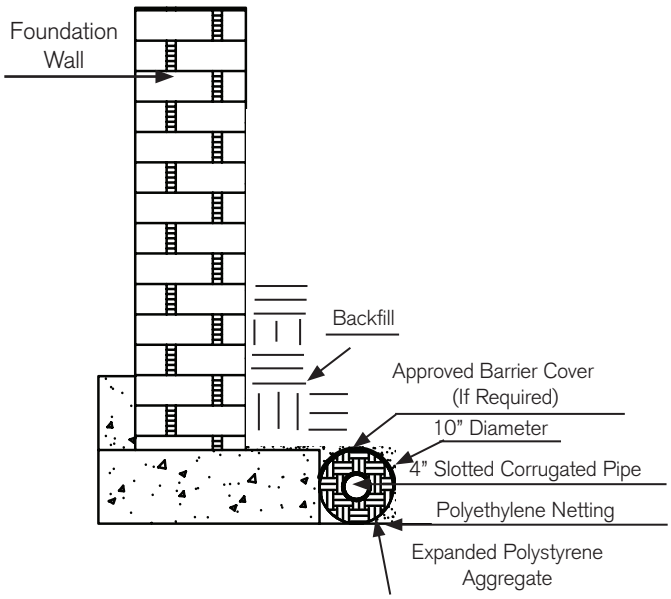


NOTE: Section with pipe may be installed on either side of trench

Properties and Specifications

Overall System Height	12"
Invert Height	6"
Trench Width	24"
Min. Trench Depth	18"
Soil Interface Area	4.0
Storage Capacity (gal/ft)	9.02

Foundation Drain Detail



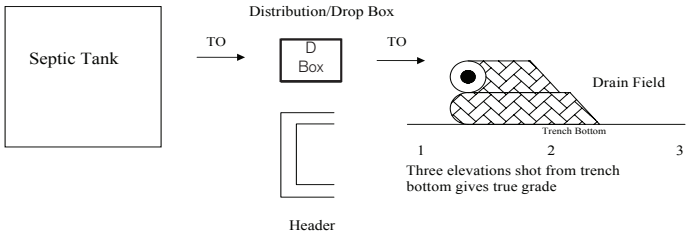
EZ*flow* Inspection

During installation of a golf course, farm drain, ground water interceptor, or french drain, it is suggested to begin from the point of intended discharge (low point), maintaining upward grade while digging back towards the trouble spot in order to ensure that proper drainage will occur.

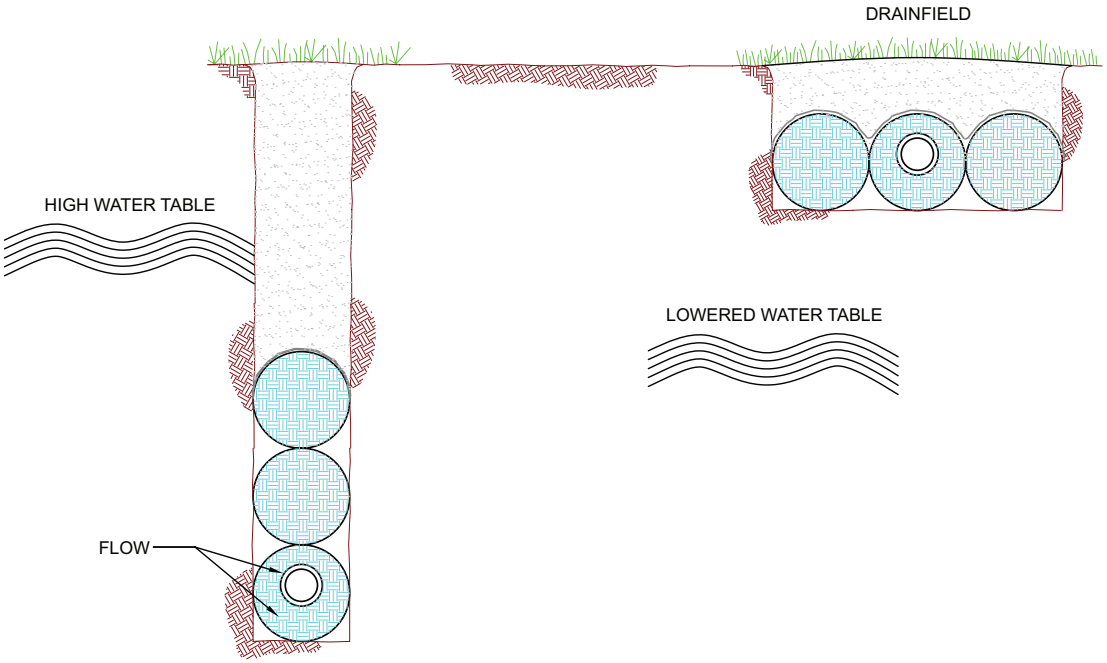
As required by state or local regulations, be sure to obtain proper installation inspection from the health department prior to covering the system.

Septic tank, header pipe or D box, trench bottom, grade, depth, and cover shall be in accordance with state rules and regulations unless otherwise specified.

Four-inch septic pipe units are self leveling. Units are engineered with holes at 12, 4 & 8 o'clock. Barrier over systems, if required, shall be of untreated building paper or manufacturer approved geotextile.



Perimeter Curtain Drain



EZ*flow* CURTAIN DRAIN
1001P OR 12001P

CROSS SECTION OF AN**EZ***flow* PERIMETER CURTAIN DRAIN (FOR LOWERING HIGH WATER TABLE UNDER A SEPTIC SYSTEM DRAIN FIELD).

INFILTRATOR®
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