Michigan

Michigan local health departments must approve the use of proprietary products in accordance with the requirements of their individual sanitary codes. However, Michigan Department of Environmental Quality (MDEQ) has reviewed EZflow for compliance with Criteria for Subsurface Sewage Disposal (04/94), and has agreed that EZflow products can be sized on a 1:1 basis with aggregate trench or absorption bed systems with the following comments for the specific product configurations:

1201P: This configuration is a single 12-inch diameter product. MI DEQ does not object to its application at an equivalent one square foot of bottom area per lineal foot.

1202V: This configuration consists of two 12 inch diameter units stacked vertically, intended to compare with a deep trench system as allowed for under Section C 10 Criteria. MI DEQ does not object to its application at 3 square feet per lineal foot for deep trench installation.

1203H: This configuration consists of three 12" diameter units installed side by side horizontally. MI DEQ does not object to its application equivalent to a 3 foot wide gravel trench on a lineal foot to lineal foot basis. This configuraion can also be replicated in a bed configuration with each lineal foot being equivalent to three square feet of required bottom area.

A single pipe bundle contains a four inch perforated pipe surrounded by EPS aggregate and is held together with polyethylene netting. A single aggregate bundle contains aggregate only and is held together with polyethylene netting..

Materials & Equipment Needed

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

EZflow by INFILTRATOR

January 2023

Installation Instructions for EZflow Systems in Michigan

Installation Instructions

The instructions for installation of EZflow products are given below. All sites must meet the Site & Soil Conditions & Location & Isolation distances as noted in the Criteria or County Code as applicable.

1. After the local health department has determined sizing, configuration, and layout for the 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. Construction should not be undertaken when soils are saturated from heavy rains or snow melt, or when soils are frozen, unless specific approval is granted by the reviewing agency.

3. Excavate trench to approved depth. Smearing of sidewall and bottom surfaces during construction is to be avoided. Smeared soil surface should be raked to remove glazing.

4. Remove plastic EZflow stretch wrap prior to placing bundles in the trench(es). Remove any plastic wrap in the trench before system is covered.

5. The bottom of each absorption system trench should be laid as close to level as possible but not to exceed a grade of two inches fall in 100 feet per Criteria or County Code as applicable.

6. 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.

7. Soil within 12" of the cylinders, in trenches, shall be loosely placed and not compacted.

NOTE: EZflow EPS bundles are flexible and can fit in curved trenches as may be necessary to avoid trees, boulders, or other obstacles.

8. Trench Systems shall have a minimum of 4' of undisturbed earth between trench walls. For Bed Systems, a maximum of 6' on center may be provided between laterals.

9. The EZflow Drainfield Systems should be installed with 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, or other water stops.

NOTE: Check with local health department, prior to covering, for required inspections.

10. Check with local health department, prior to covering, for required inspections.

11. A minimum of 6" and a maximum of 48" of suitable earth cover shall be placed over the EZflow EPS bundles (or per Code).

12. The trench top shall be graded such that water will not pond and compacted to the maximum degree possible with a backhoe bucket. Backfill should be seeded or sodded immediately afte completion to reduce erosion.

Repeat steps 1 through 12 as needed.

Reserve Area

Sufficient suitable area shall be available and reserved to provide for a minimum of one replacement system without utilization or disruption of the initial installation.

Inspection

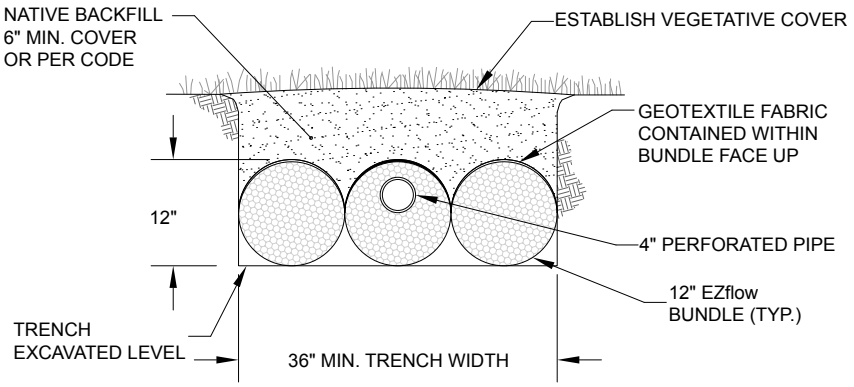
An inspection by the county or district health department may be required after the sewage disposal system has been completed but before any portion of the system has been covered or placed in operation. It is the responsibility of the contractor, homeowner, or installer to notify the local health jurisdiction that the sewage disposal system is ready for inspection.

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

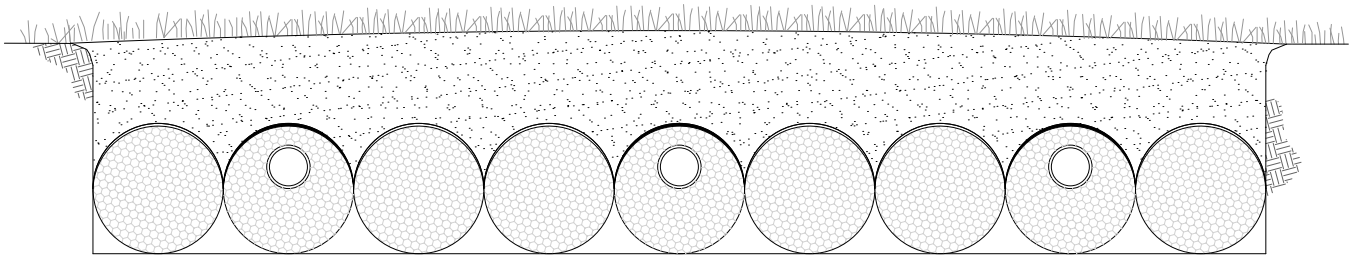
Sizing

The Absorption area (SF) necessary for a given site shall be sized based on maximum daily sewage flow (GPD) and the Permeability for the site. The total length of the trench required shall be determined by dividing the total absorption area (SF) required by the SF/FT of the product configuration being installed

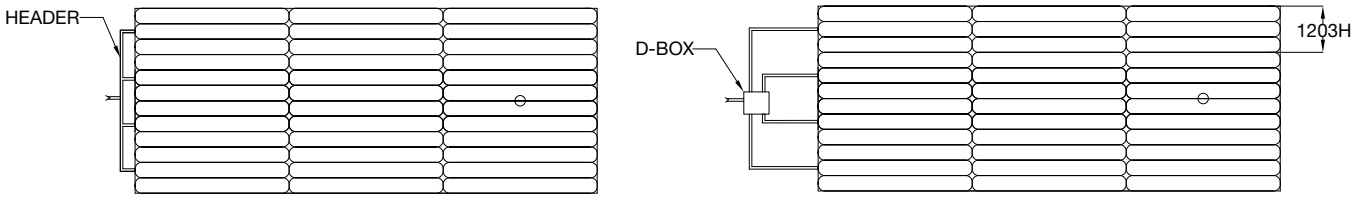
1203H Trench System



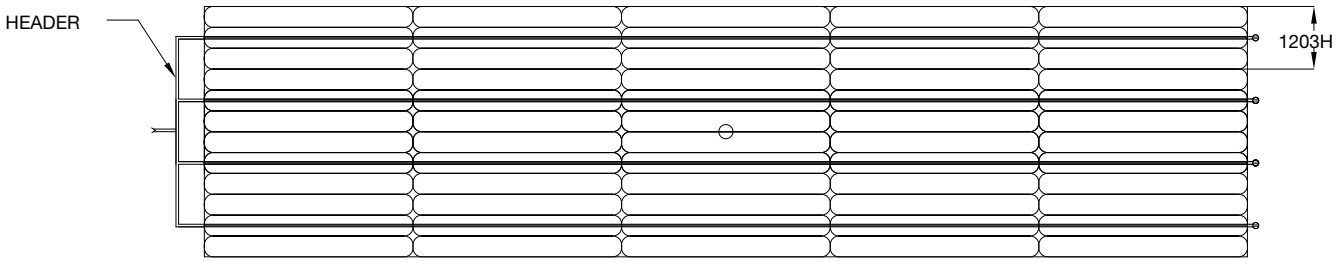
1203H Bed System



1203H Gravity Plan



1203H Pressure Plan



OTHER CONFIGURATIONS OF PRESSURIZED SYSTEMS CAN BE UTILIZED

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The top of configurations with the suffix **"GEO"** contain 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 and is in contact with the fabric contained in the adjacent cylinder before backfilling. If not utilizing a **GEO** product, installer should use untreated building paper. Other barrier material may be used as approved by the state's DEC and manufacturer.

U.S. Patents: 8322948; 8337119; 8297880; 7914230; 7008138. Other patents pending. Infiltrator, Quick4 and EZflow are registered trademarks of Infiltrator Water Technologies. Infiltrator Water Technologies is a wholly owned subsidiary of Advanced Drainage Systems, Inc. (ADS).

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Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436