

Installation Instructions for EZflow Systems in Ontario, Canada



The Ontario Building Materials Evaluation Commission (BMEC) granted authorization #1-19-271 and 1-18-270 to Infiltrator Systems Inc. for EZflow Drainage Systems.

The EZflow 1401-P is 355 mm (14") in diameter by 3.0 meters (10') long. A single pipe bundle contains a four inch perforated pipe surrounded by EPS aggregate and is held together with polyethylene netting. The 1401-P is used in lieu of pipe and stone in absorption trenches, and in shallow buried trench systems.

For use in raised bed applications, the EZflow 1203 is a bundle of 3 pieces each of 300mm (12") in diameter by 3.0 meters (10') long. EZflow 1203 is used in lieu of pipe and stone in filter beds.

For use in raised bed applications, the EZflow 1202 is a bundle of 2 pieces each of 300mm (12") in diameter by 3.0 meters (10') long. The EZflow 1202 is used in trench applications.

Materials and Equipment needed

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

Installation Instructions

The instructions for installation of EZflow products are given below. This product must be installed in accordance with the Ontario Building Code.

In cases where linear footage required is not in multiples of 10, installer may (a) reduce the product to needed length and refasten netting to the pipe or, (b) use an additional 10 feet of product to exceed the required trench length.

Absorption Trench

The EZflow 1003T, 1202H, and 1401-P systems can be used in absorption trenches.

1. The 1003T system is to be installed in a triangular configuration, with two solid aggregate fill cylindrical bundles (without pipe) side by side on the bottom, and an aggregate and drainage tile cylindrical bundle (with pipe) which shall be placed on top of the two cylindrical aggregate bundles to form a triangle, in a 600 mm (24") wide trench.
2. The 1202H system is to be installed Side by side, in a 600 mm (24") wide trench, one cylindrical bundle shall be of solid aggregate fill (without pipe) and the other cylindrical bundle (with pipe) shall be of aggregate and drainage tile.
3. The 1401-P system is to be installed in a 350 mm (14") wide trench to a maximum of 600 mm (24") wide trench.

4. Linear length of leaching bed absorption trench installed with these three products must equal the required lengths of distribution pipe specified in Part 8 including Article 8.7.3.1 OBC Code
5. When used in **gravity fed, shallow buried pressure system and dosing trench system**, the EZflow Drainage System shall be:
 - a. Installed such that all joints between EZflow components and other pipes are to be securely connected with approved connectors.
 - b. Free of structural damage.
6. Disposal field trenches shall follow the ground surface contours so that variations in trench depth will be minimized.
7. The minimum clearance distances required by Article 8.2.1.6 for distribution piping shall be met by these Drainage Systems. Determine the permitted location and excavate the absorption trenches.
8. Construction of absorption trenches shall comply with Article 8.7.3.2. If smearing or glazing of trench sidewalls and bottom has occurred, it is recommended that these soil surfaces be raked or scarified.
9. Remove plastic EZflow stretch wrap prior to placing bundles in the trench(es). Remove any stretch wrap in the trench before system is covered.
10. Place first EZflow bundle(s) in the trench. The next bundle(s) with pipe are joined end to end with approved internal pipe couplings. Connect and place additional EPS bundles with pipe in trenches until the required linear footage has been obtained and cap ends.
11. If installing an EZflow product that contains a pre-inserted geotextile between the netting and aggregate, an exterior barrier cover material is not required. If installing an EZflow product that does not contain a pre-inserted geotextile, then a barrier cover shall be placed over the top of these products prior to backfilling, and the barrier cover shall be a permeable filtration fabric or Kraft paper of the type recommended by the manufacturer.
12. These products shall be covered with a minimum of 150 mm (6") of backfill. The 1401P bundles are flexible and can fit in curved trenches as may be necessary to avoid trees, boulders or other obstacles.
13. The trench top shall be shaped or mounded to ensure surface water runoff.
14. Obtain any required inspections by local or county health department before covering system.

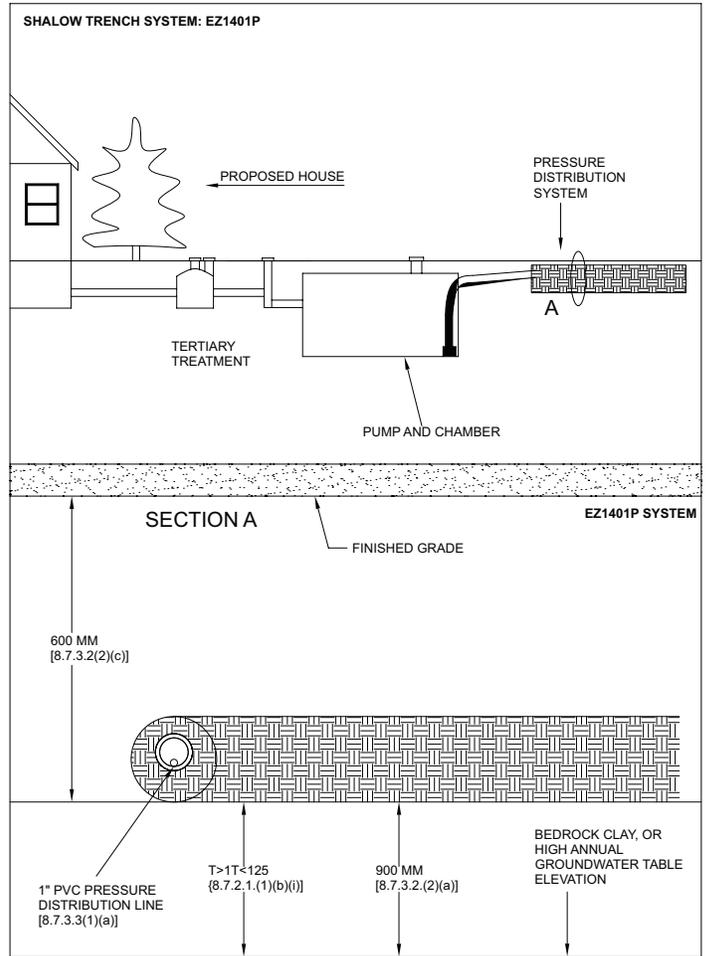
Repeat steps 1 thru 14 for each required trench.

Filter Beds

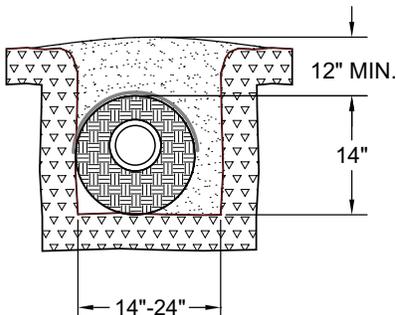
1. When installed in lieu of distribution piping and stone in **filter beds**, the cylindrical bundles of the **EZflow** 1203 Drainage System shall be placed to cover the surface of the filter medium to which the sewage effluent is applied, and the maximum spacing between the cylindrical bundles (with pipe) shall not be greater than 1.2 m (4'). The leaching beds using **EZflow** 1203 must satisfy the general construction requirements specified in *Article 8.7.2*. Where the sewage effluent is “**dosed**” to the leaching bed by pumps or a siphon, the **EZflow** 1203 Drainage System shall:
 - a. Pump the effluent into a header line or distribution box to achieve uniform distribution over the entire absorption bed or trenches.
 - b. Comply with the requirements of Sentence 8.6.1.3.(4) of the OBC.

Shallow Buried Trench

1. When installed in lieu of 1/2 round corrugated pipe or chambers, in **Shallow Buried Trench Systems**, the 1” Perforated PVC Pressure Distribution Line is inserted into the 4” perforated leachfield pipe within the 1401P Bundle. This fully supports the 1” PVC perforated pressure pipe.
2. The perforations in the 1” pressure pipe shall face up.
3. Compliance with *Articles 8.7.3.1 and 8.7.6* is required.
4. The total trench depth to this finished grade is not greater than 600 m (24”).
5. To be installed in a 350 mm to a max of 500 mm wide trench.

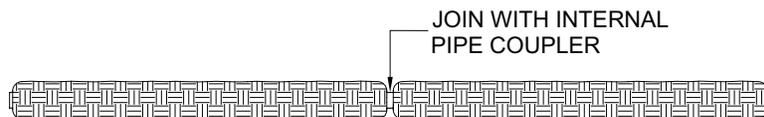


EZflow 1401-P



Other Applications Include:

- Foundation Drains
- French Drains
- Interceptor Drains
- Landscaping Drains
- Roof Run-Off Drains
- Septic Systems
- Golf Courses
- Sports Fields



The area of the disposal field shall not be used for vehicular traffic, parking, or underground utilities, to include water lines. Dozers, trucks, and other heavy vehicles shall not be allowed to run over the septic tank, field lines or other parts of the system.

Sod or seed the drainfield area to control erosion, as may be required by Permit or local policy.

Maintenance

It is the property owner's responsibility to maintain the system in a safe and sanitary manner per the Ontario Building Code or local regulations.

EZ_{flow} Inspection

As required by local or county regulations, be sure to obtain proper installation inspection and authorization 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 provincial 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 shall consist of Kraft paper or permeable filtration fabric of a type recommended by the manufacturer or local authority.



INFILTRATOR[®]
systems inc.

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