



INFILTRATOR

water technologies



**EZflow by Infiltrator:
A Highly Adaptable Drainfield Product**



**Trevor Gillespie, Area
Sales Representative for
AZ and Southern
California**

Product Families

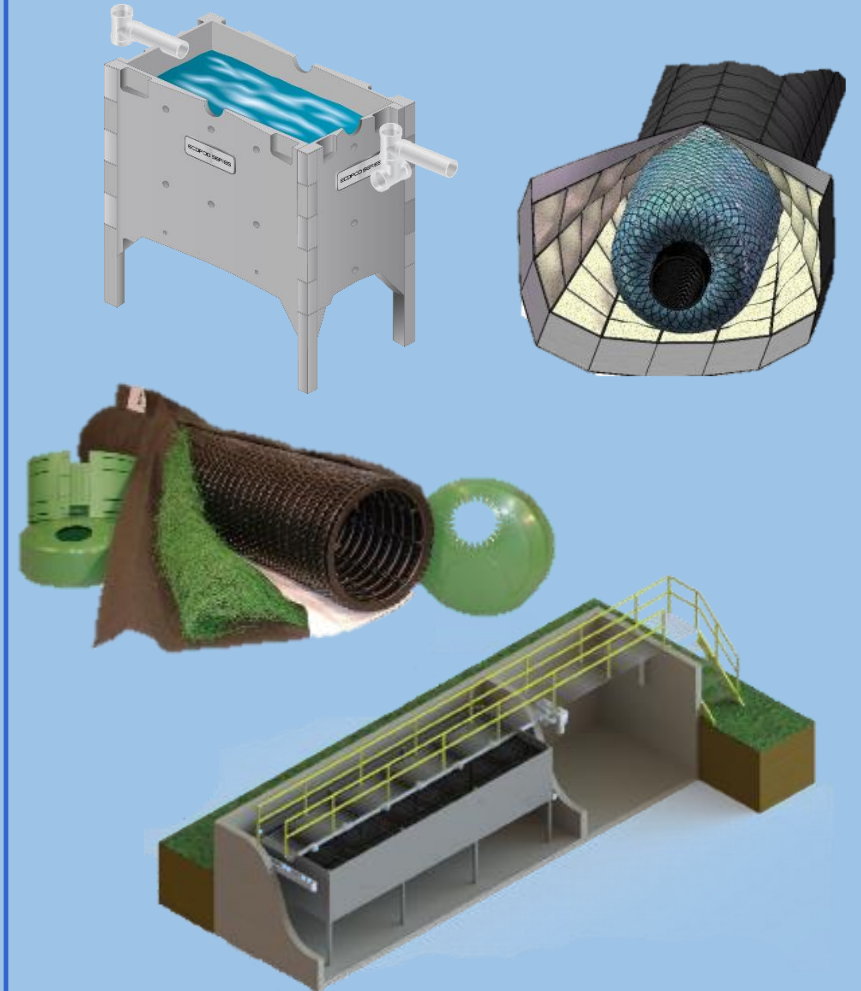
Drainfield Chambers and EZflow



Tanks & Risers




Treatment



What is

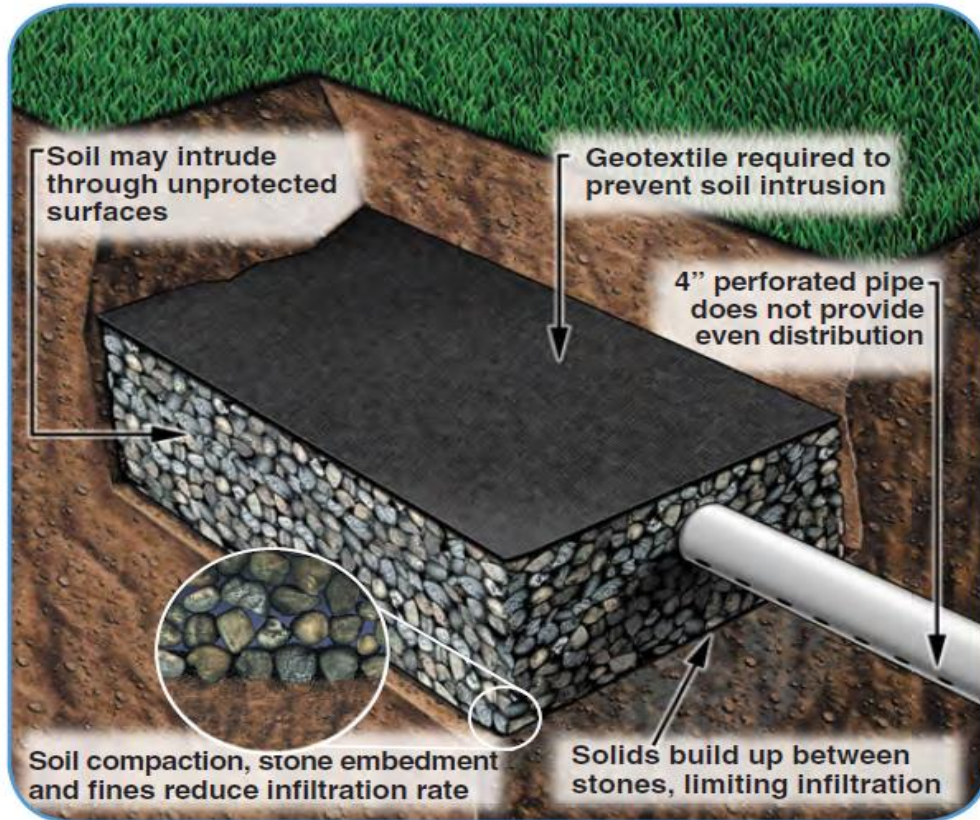
 **EZ** *flow*® ?
by INFILTRATOR



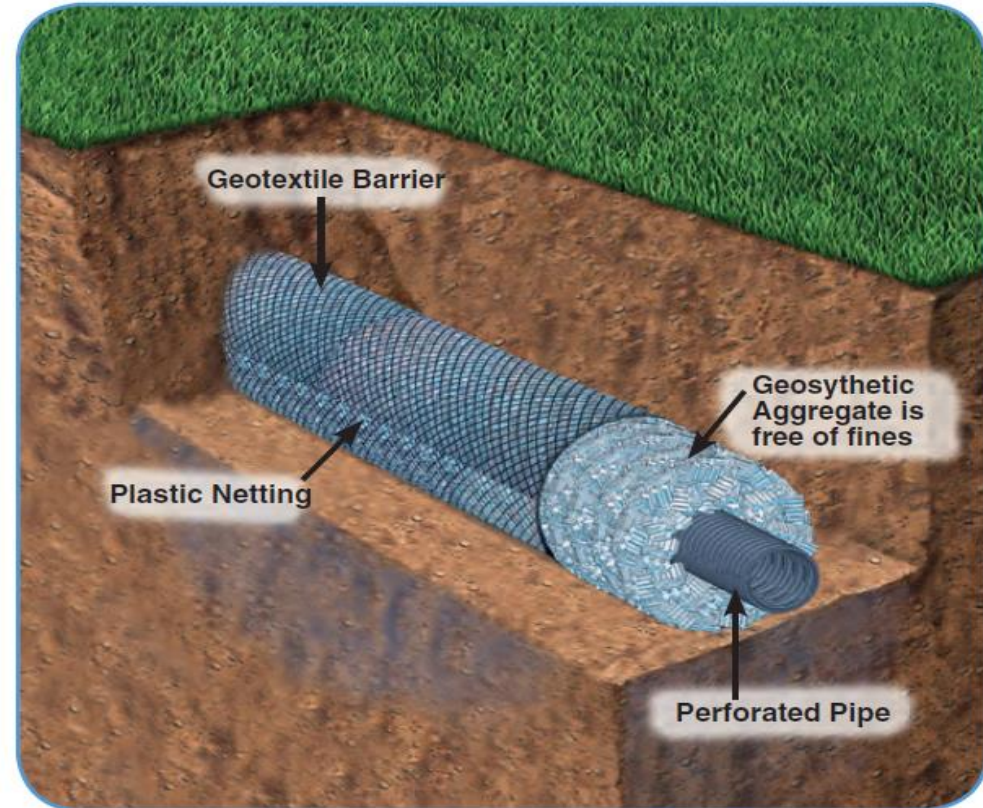
A large pile of blue, bundled geosynthetic aggregate. The aggregate consists of numerous small, rectangular, blue-colored pieces, each with a distinct, raised, grid-like pattern on its top surface. The pieces are densely packed and appear to be made of a flexible, woven material. The overall appearance is that of a large quantity of this specialized material, likely used for erosion control or soil stabilization in construction or landscaping.

Bundled Geosynthetic Aggregate

Compare Systems



Traditional



EZflow

Polystyrene



Mechanically Bonded



Extruded EPS



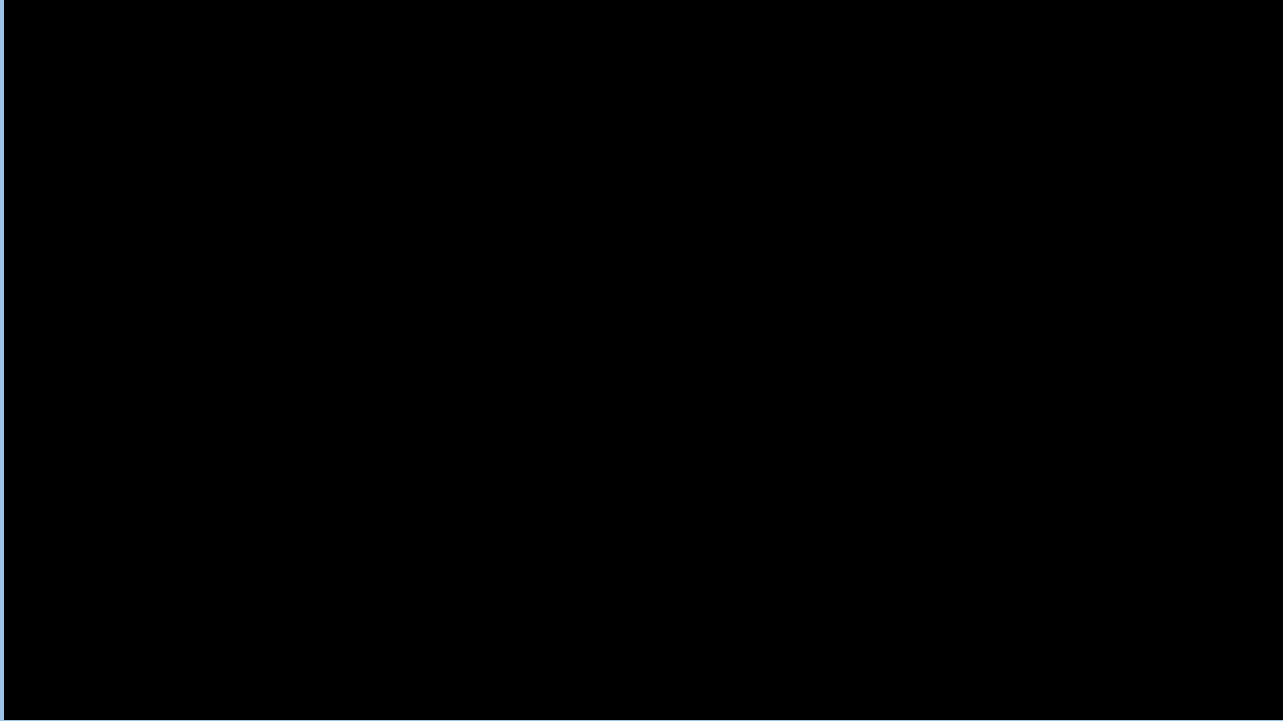
Structural Properties

Structural Properties of EPS



Manufacturing





Delivery



In The Beginning





Pre-Manufactured Geotextile



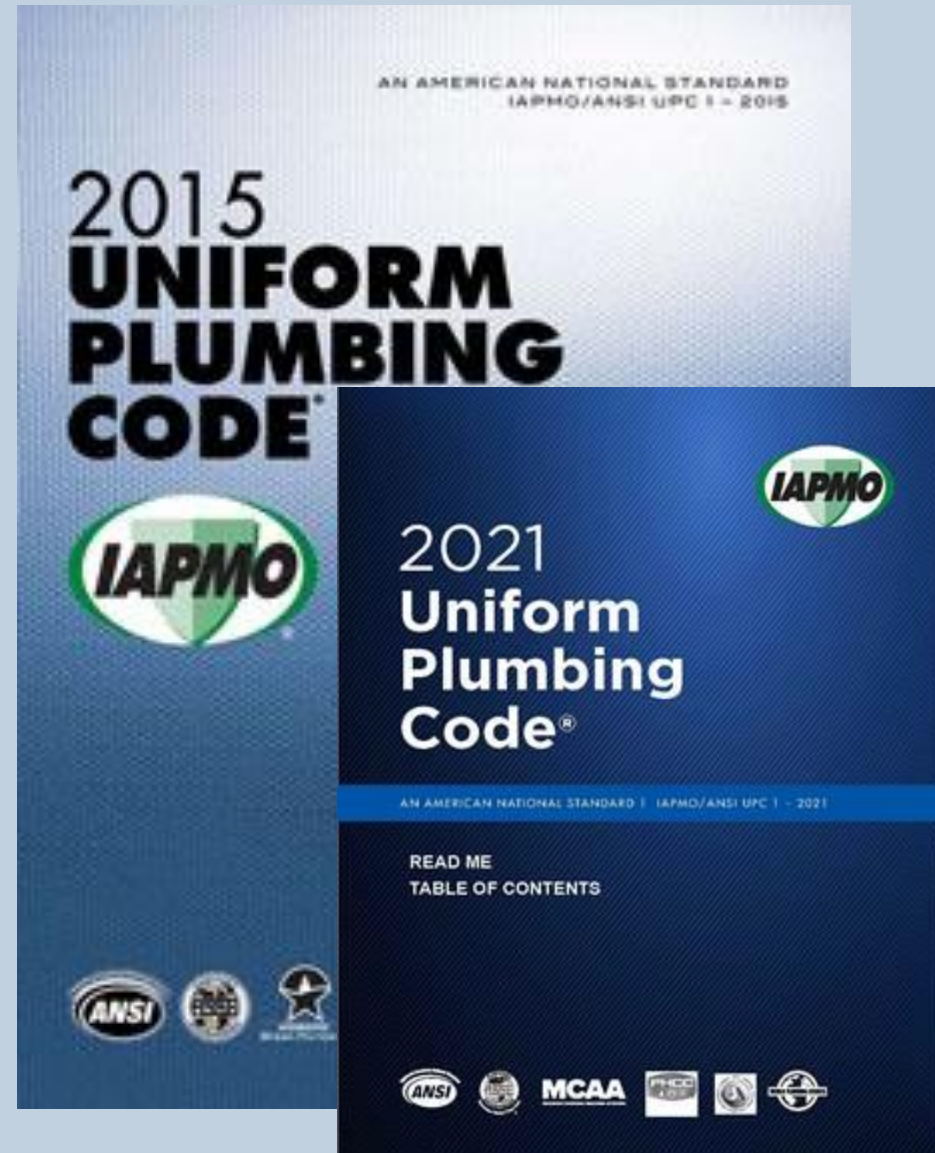
Clean and Free of Fines

Hydraulic Conductivity Columns



2015 Uniform Plumbing Code – Appendix H

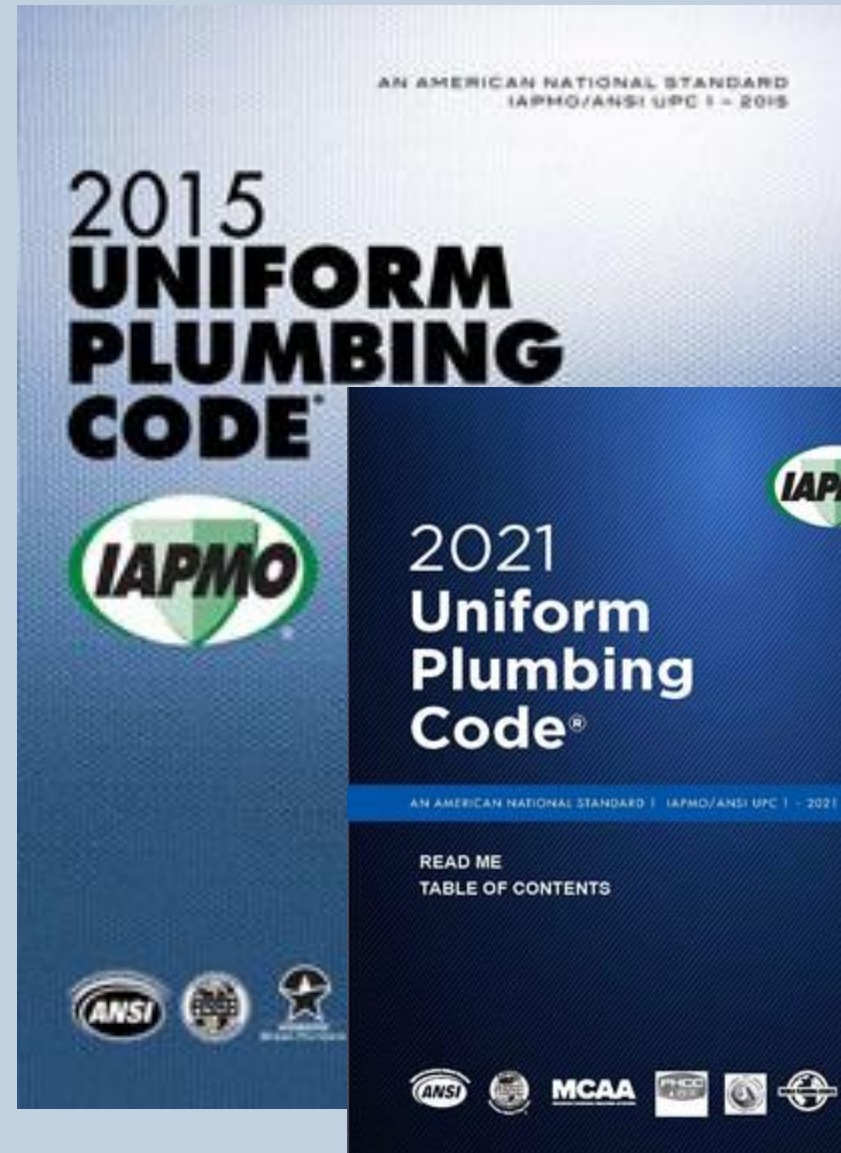
- Chambers at 0.70 sizing for nearly 20 years
- Bundled EPS at 0.70 sizing for first time
- Now allows 0.70 multiplier on trench bottom OR sidewall



2015 Uniform Plumbing Code – Appendix H

Equivalency Sizing

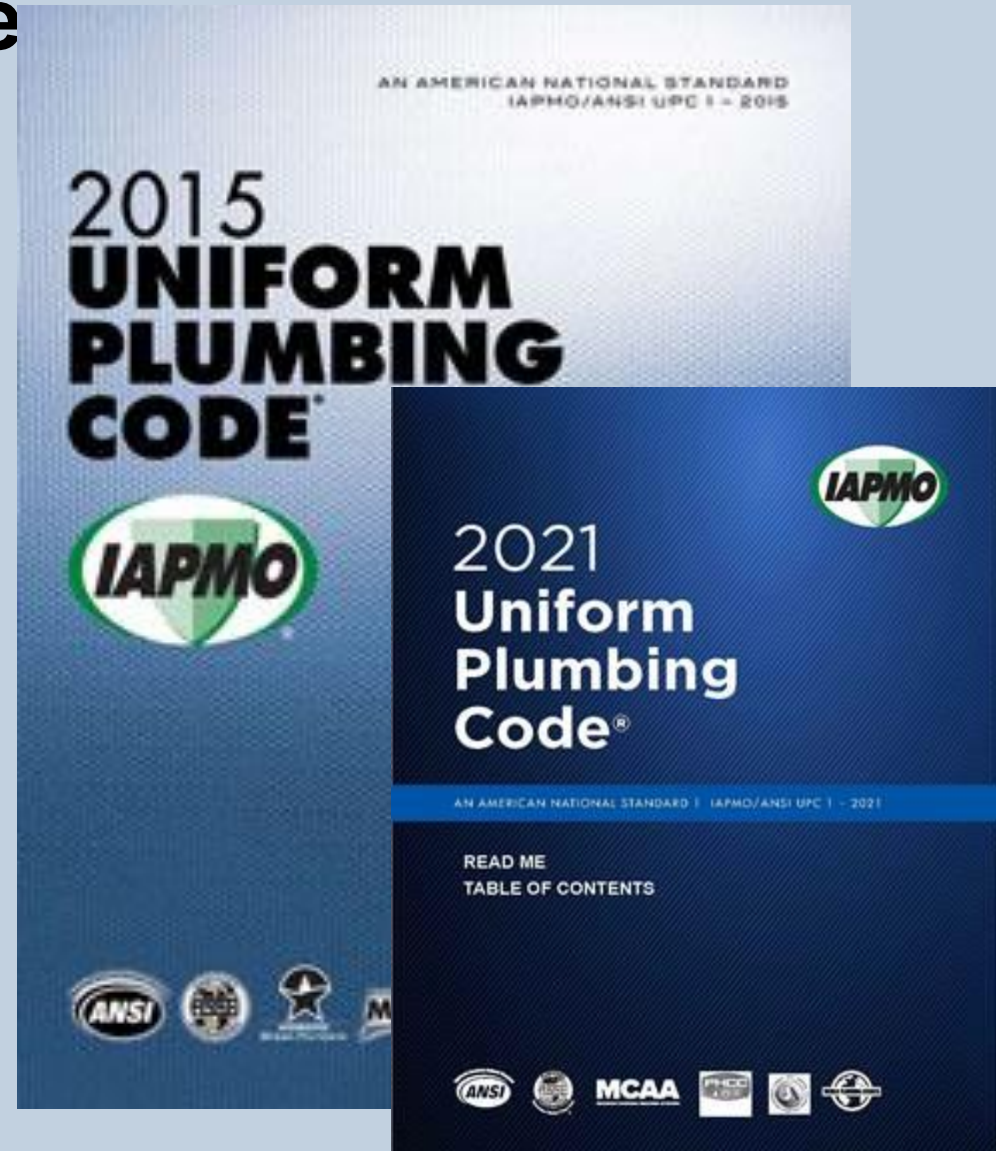
(5) Leaching chambers that comply with IAPMO PS 63 and bundled expanded polystyrene synthetic aggregate units that comply with IAPMO IGC 276 shall be sized using the required area calculated using Table H 201.1(3) with a 0.70 multiplier.



2015 Uniform Plumbing Code – Appendix H

Substitution Allowance

Exception: Listed or approved plastic leaching chambers and bundled expanded polystyrene synthetic aggregate units shall be permitted to be used in lieu of pipe and filter material. Chamber and bundled expanded polystyrene synthetic aggregate unit installations shall follow the rules for disposal fields, where applicable, and shall be in accordance with the manufacturer's instructions.





Over 100 Million Pounds of Plastic Recycled Every Year

**No Stone
Hauling**



State Specific Approvals

ARIZONA

The Arizona Health Department of Environmental Quality has approved the EZflow 12-inch and 18-inch bundles for use in the state of Arizona. The use of EZflow leachfield material shall comply with all applicable requirements of A.A.C. R18-9 and the



JANUARY 2018

Installation Instructions for EZflow Systems in Arizona



SEPT 2017

Installation Instructions for EZflow Systems in New Mexico



New Mexico

The New Mexico Environment Department, Liquid Waste Program has approved EZflow 1204V-GEO with design infiltrative area of 7.0 sf/ft, EZflow 1203V-GEO with design infiltrative area of 6.4 sf/ft, and EZflow 1203H-GEO with design infiltrative area of 5.3 sf/ft. All other relevant design parameters contained in 20.7.3 NMAC must be followed, as well as adherence to the manufacturer's recommendations for installation.

Materials & Equipment Needed

- EZflow Bundles
- EZflow Internal Pipe Couplers
- Endcaps if Needed
- Backhoe
- Laser, Transit or Level
- Shovel and Rake

Installation Instructions

The instructions for EZflow products are given below. This product must be installed in accordance with the appropriate state regulations and codes.

In cases where linear footage required is not in multiples of 10, the installer may (a) reduce the product to needed length and refasten netting to the pipe or, (b) use an additional 5 or 10 feet of product to exceed the minimum required trench length.

1. After the local health department has issued a permit, stake or mark the location of the trenches and lines. Then, set the tank, invert pipe, headerline/distribution box, and trench elevations.
2. The required length of drainfield shall be determined by dividing the required square footage by the state approved product rating.
3. When installed in a trench, the trench should be dug to a minimum width of 12 inches up to a maximum of 36 inches. If trench width exceeds 12 inches, stakes shall be used to maintain the vertical configuration.
4. Remove the plastic wrap from the EZflow bundles prior to placing them in the trench(es). Remove any wrap from the trench before the system is covered.
5. The bottom of each leaching trench shall have a minimum of a level grade to a maximum of 3 in/100 ft. per NMAC 20.7.3.701-J.
6. Before placing EZflow in a prepared excavation, all smeared or compacted surfaces shall be removed from trenches by raking to a depth of one inch and the loose material removed per NMAC 20.7.3.701-D.

7. The top of each GEO bundle contains a pre-manufactured filter fabric between the netting and aggregate to prevent soil intrusion. The installer shall ensure that the fabric is on top.

8. The cylinders containing 4-inch-diameter perforated pipe are joined end-to-end with an internal coupling available from EZflow. The same internal coupler is used to start the trench, as it will slide inside the 4-inch-diameter PVC pipe from the D-box or header.

9. Trench spacing shall be per NMAC 20.7.3.701-K.

10. The trench top shall be shaped to ensure surface runoff. Minimum cover over the EZflow bundles shall be 12 inches.

11. EZflow bundles are flexible and can fit in curved trenches, as needed, to avoid trees or other obstacles.

12. Soil material excavated from trenches, if suitable per code, should be used in backfilling and should be left mounded over the trenches until initial settling has taken place. Soil within 6" of the EZflow bundles shall be loosely placed and not compacted.

Inspection

Before covering the system, it shall be inspected by the state or local regulatory agency, per NMAC 20.7.3.203B. The area of the disposal field shall not be used for vehicular traffic, parking, or underground utilities (i.e. water lines). Dozers, trucks, and other heavy vehicles shall not be allowed to run over the septic tank, drainfield or other parts of the system.

Soil, hay, seed, or approved alternative vegetative cover should be utilized over the drainfield area to control erosion, as may be required by permit or local regulation.

8. The top of each 1201P-GEO bundle contains a pre-manufactured filter fabric between the netting and aggregate. The installer shall ensure that the fabric is on top and contains the distribution pipe.

9. The cylinders containing 4-inch perforated pipe are joined end to end with an internal coupling available from EZflow. The same internal coupler is used to start the trench, as it will slide inside the 4-inch PVC pipe from the dbox or header.

10. Trench spacing shall be a minimum (measured between nearest sidewalls) of 2 times effective depth or five feet, whichever is greater per A.A.C. R18-9. Refer to local county regulations for additional trench spacing requirements.

11. The trench top shall be shaped to ensure surface runoff. Minimum cover over the pipe and aggregate assembly shall be 12 inches.

12. EZflow bundles are flexible and can fit in curved trenches, as needed, to avoid trees or other obstacles.

13. Soil material excavated from trenches, if suitable per code, should be used in backfilling and should be left mounded over the trenches until initial settling has taken place. Soil within 6" of the bundles shall be loosely placed and not compacted.

Inspection

Before covering the system, it shall be inspected by the department, per A.A.C. R18-9. The area of the disposal field shall not be used for vehicular traffic, parking, or underground utilities (i.e. water lines). Dozers, trucks, and other heavy vehicles shall not be allowed to run over the septic tank, drainfield or other parts of the system.

Soil, hay, seed, or approved alternative vegetative cover should be utilized over the drainfield area to control erosion, as may be required by Permit or local policy.

Services Department for assistance at 1-800-221-4438

Before
you begin



MO Installation



Very Cold Day with Snow Coming



A photograph of a deep, narrow trench. The left side of the trench is reinforced with a layer of light-colored gravel and a dark fabric mesh. The right side is a vertical wall of brown soil with several tree roots protruding from it. The bottom of the trench is dark and appears to be filled with soil or debris. The text "DEEP TRENCH" is overlaid in white, bold, sans-serif font across the center of the image.

DEEP TRENCH

Fittings



Versa Coupler

Versa Coupler Connection





Installation

A photograph showing the installation of EZflow in a trench. Three large rolls of blue, woven fabric are laid out in a long trench filled with dark brown soil. The rolls are positioned side-by-side, extending from the foreground into the background. The surrounding area is a mix of dirt and sparse green grass. In the upper left corner, a person is partially visible, and some equipment is on the ground. The text "Installation of EZflow" is overlaid in white, bold font on the right side of the image.

Installation of EZflow



GEO-UP!!



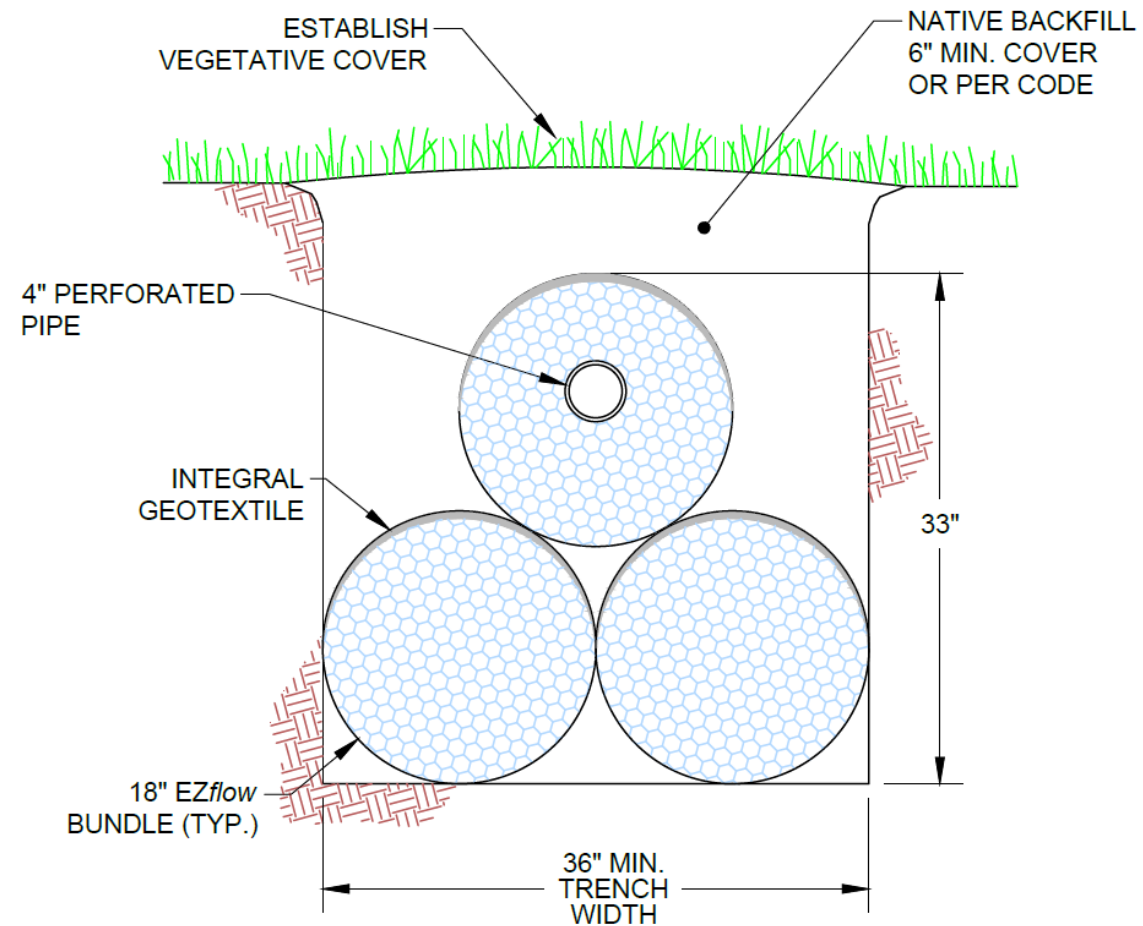
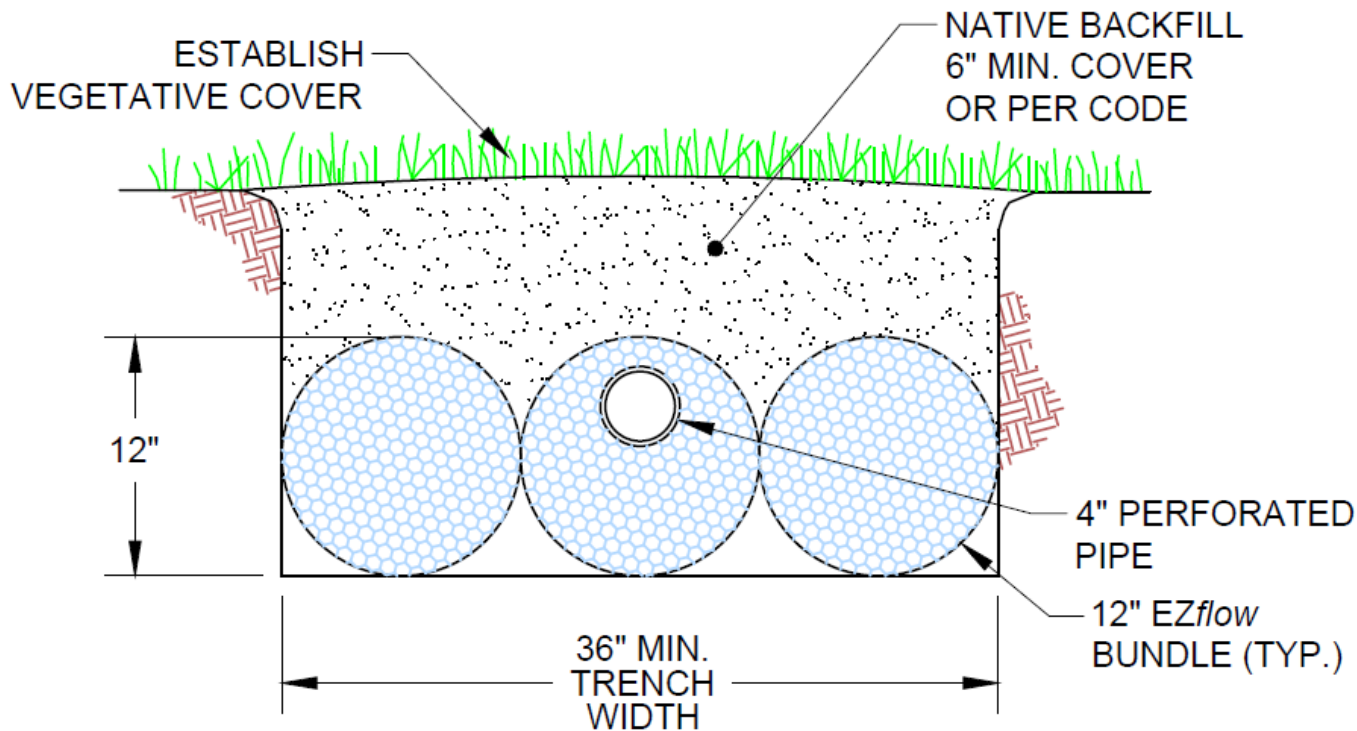
**Let's
Recap!**



standard
details

Septic Systems

3' Wide Trench (TYP)

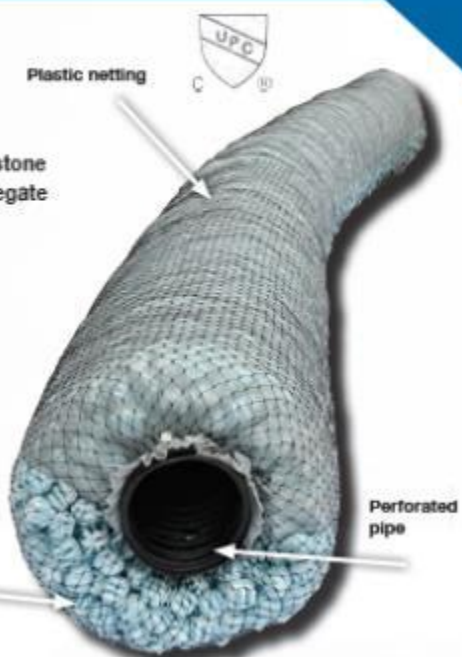




EZflow is an environmentally friendly replacement for old-fashioned stone and pipe in septic drainfields using an engineered geosynthetic aggregate modular design.

Certified by IAPMO and the ICC-ES PMG Listing Program.

An EZflow system is designed to improve infiltrative performance by eliminating fines and reducing compaction and embedment associated with crushed stone. Pre-assembled units include a 4" perforated pipe surrounded by aggregate covered in geotextile and held in place with a durable high-strength netting. Available in easy-to-contour 5' and 10' lengths in diameters of 7", 8" 9", 10", 12", 13", 14" or 18".



**GEOSYNTHETIC
AGGREGATE
TECHNOLOGY**

Supports wheel loads of 16,000 lbs/axle with 12" of cover

Benefits

- Always clean and free of fines.
- Bundles are quick to install, using simple snap internal couplers, saving costs on heavy machinery and labor.
- Modular construction allows configurations to match trench dimensions for most system shapes and sizes.
- Engineered for optimal effluent storage and absorption efficiencies.
- Ability to contour along sloped sites and around trees or landscaping.
- Lightweight, 5' or 10' lengths are perfect for repairs and tight job sites.
- Easier cleanup at job site with the elimination of stone.
- Manufactured from recycled materials rather than mined natural resources.
- Approved in most jurisdictions with an increased efficiency rating, reducing drainfield size.



Lightweight expanded polystyrene construction offers structural integrity and resists compaction. Engineered flow channels increase void space creating improved water flow and greater effluent storage. Extended geotextile barrier eliminates intrusion through unprotected surfaces.

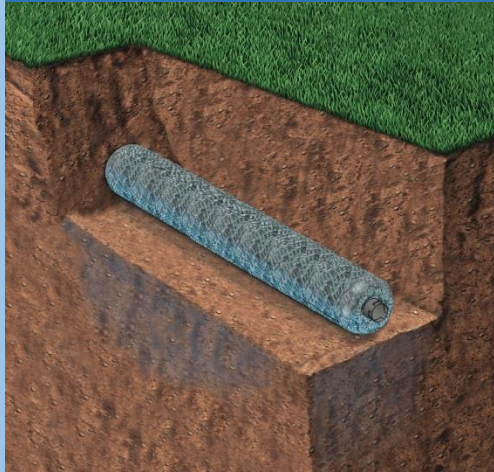
Geosynthetic aggregate is free of fines

EZflow Bundles for Septic Applications				
	Single Bundle System	Two Bundle System	Three Bundle System	Four Bundle System
Diameter				
10'	1001-P-GEO 1001-P	1002-GEO-SEP	1003-GEO-SEP 1003-SEP	1004-GEO-SEP
12'	1201-P-GEO 1201-A-GEO	1202-GEO-SEP	1203-GEO-SEP 1203-SEP	1204-GEO-SEP
13'	-	-	1303-GEO-SEP	-
14'	1401-P-GEO	-	-	-
18'	1801-P-GEO	-	-	-

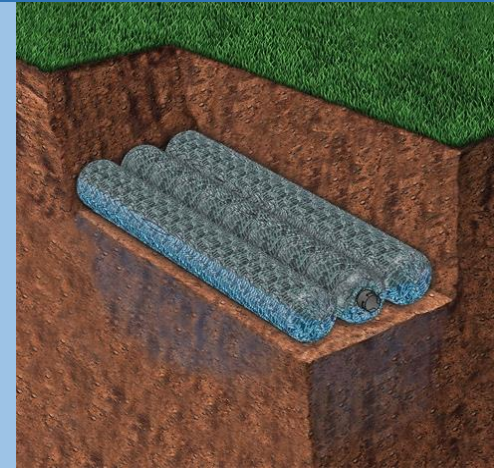
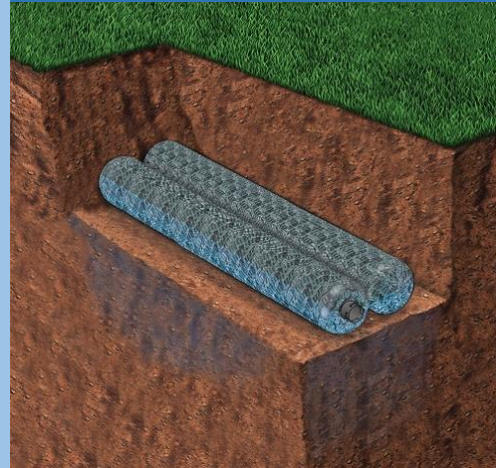
P = Pipe (Corrugated Polyethylene Pipe ASTM F667)
A = Aggregate only bundle
GEO = Geotextile Integrated
SEP = Septic Configuration

Specifications

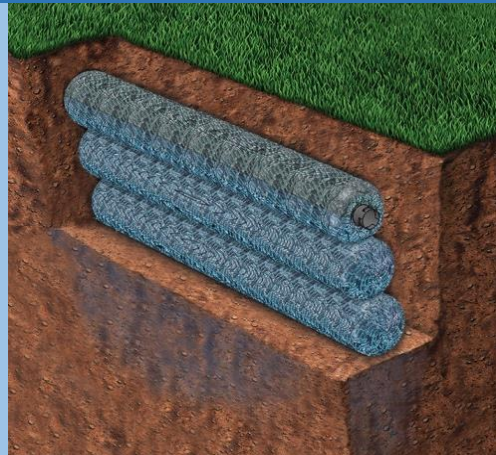
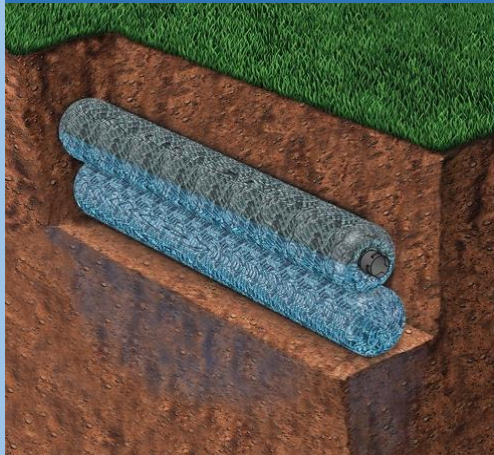
Single Pipe



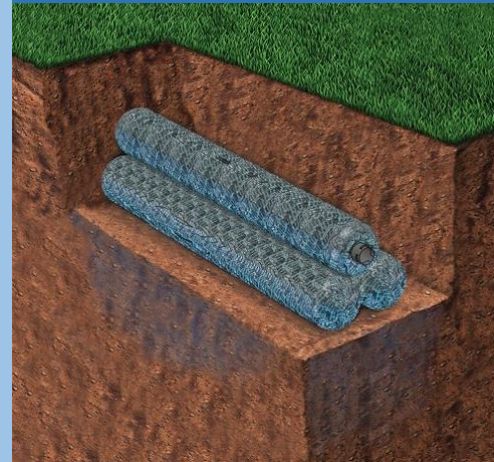
Horizontal Systems



Vertical Systems

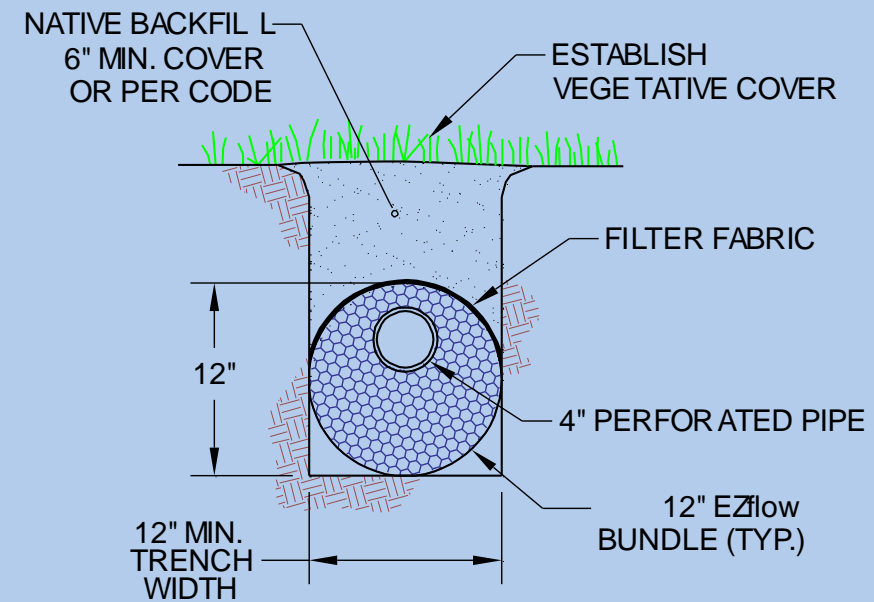


Triangular System



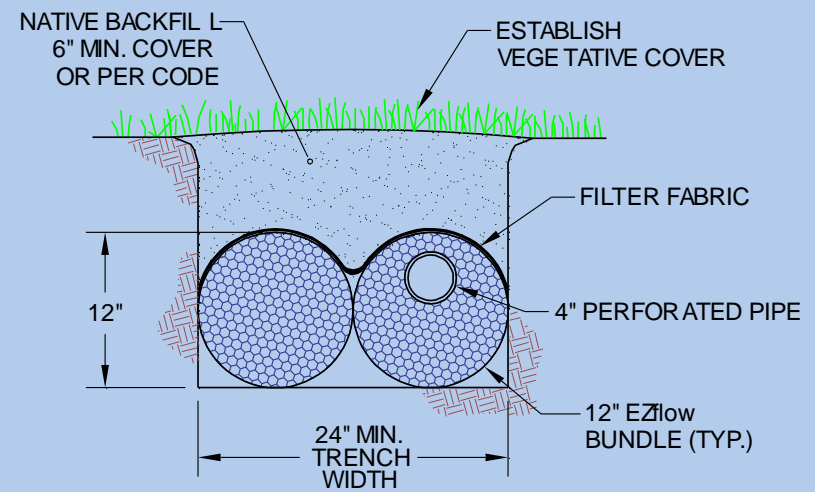


1201-P-GEO



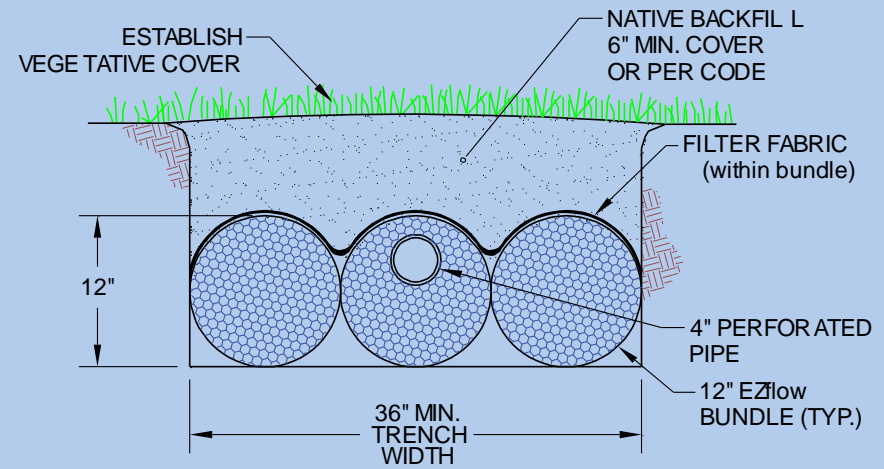


1202-GEO



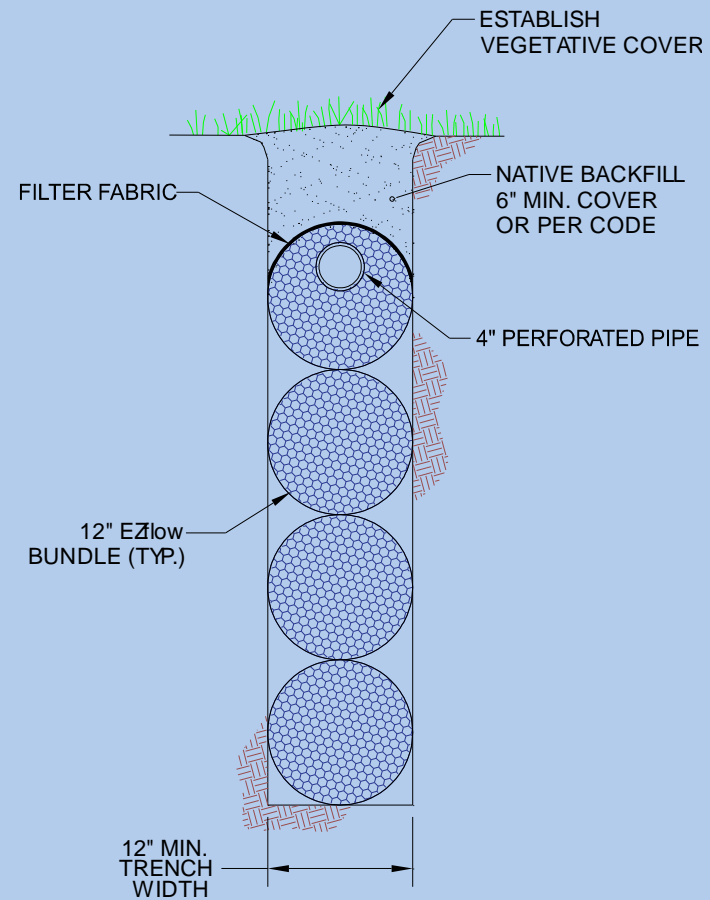


1203-GEO





1204-V-GEO



**Incredible
Flexibility**





Low
Pressure
Pipe



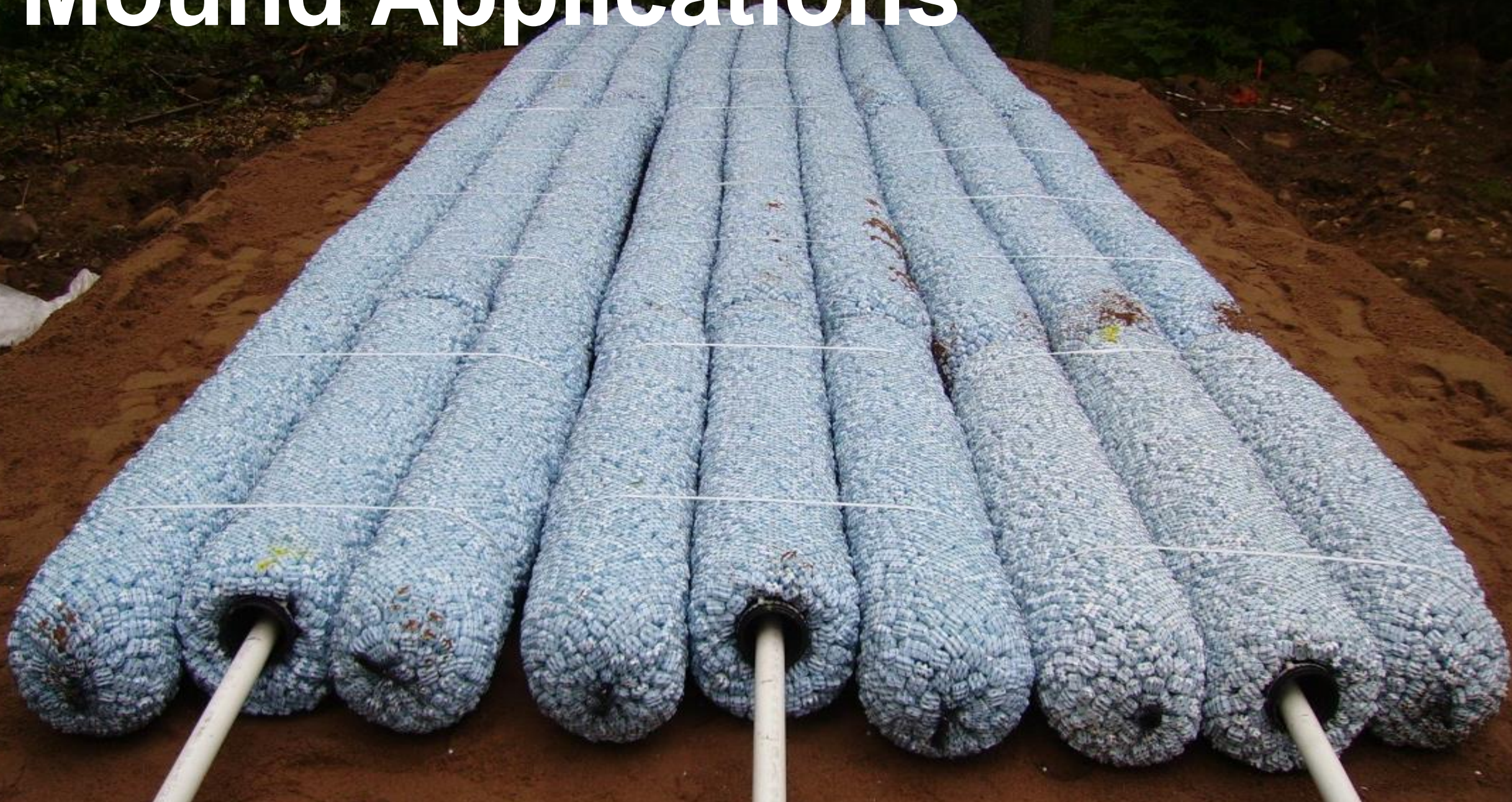
Commercial Application







Mound Applications



Beds and Sand Filters



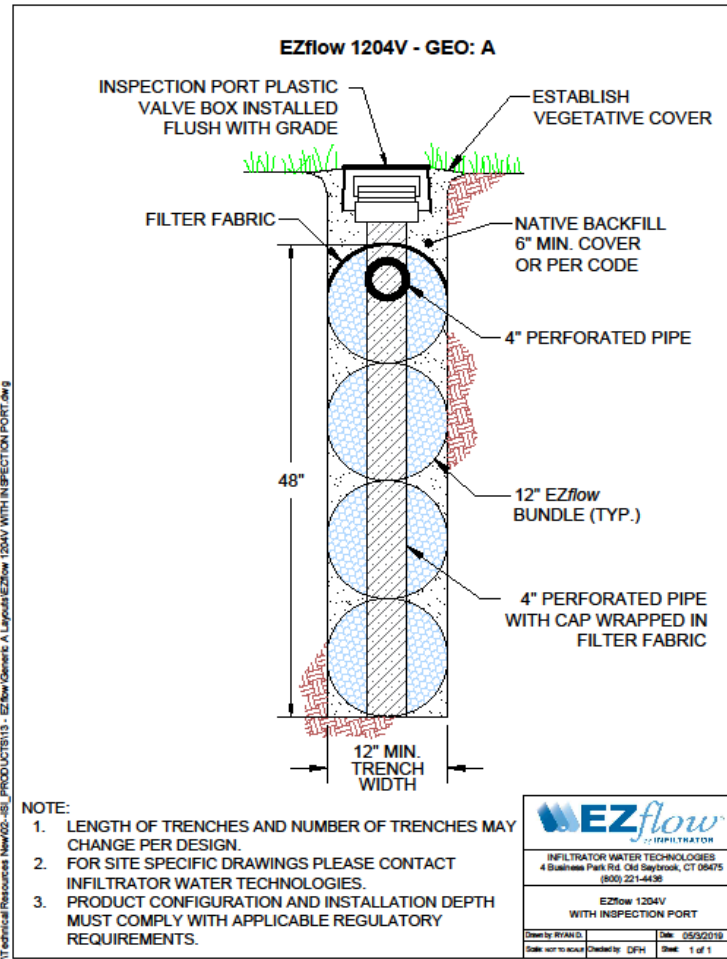
Top of Sand Filter



Infiltrator Leachfield Products



New Mexico Inspection Port



Additional Applications

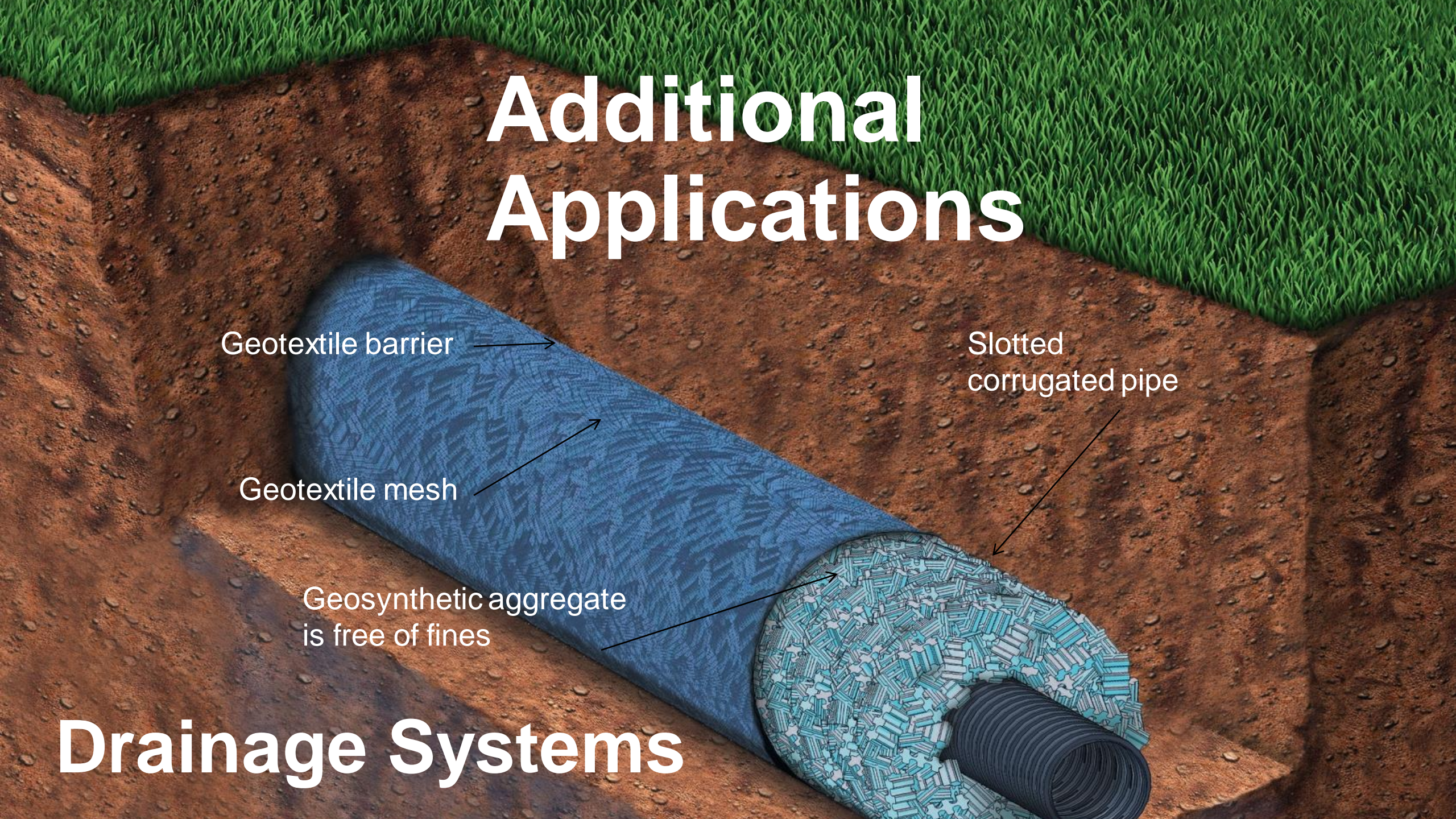
Geotextile barrier

Geotextile mesh

Geosynthetic aggregate
is free of fines

Slotted
corrugated pipe

Drainage Systems



EZflow Drainage Systems





Curtain Drains



OUTSIDE

Foundation Drainage

Don't Flush!



Protect Your System



Contact Us



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@infiltrator water



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