Alabama

January 2023

Installation Instructions for EZflow Systems in Alabama



In accordance with and subject to the provisions of the Alabama Public Health Laws of Alabama and Chapter 420-3-1, Onsite Sewage Disposal and Subdivision-Onsite Sewage Systems, Water Supplies and Solid Waste Management, and subject to terms and conditions of permit ALM0000033, Infiltrator Water Technologies. is authorized to distribute the products described in these instructions.

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

Materials & Equipment Needed

- EZflow Bundles
- EZflow Internal Pipe Couplers
- Pipe for Header and Inlet
- 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 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. Care should be taken to maintain the required vertical separation of at least 24-inches to the seasonal groundwater table.

2. To prevent smearing or compaction of soil, drainfields are not to be installed in soils with textures finer than sand, loamy sand or sandy loam, or where the soil moisture content is above the point at which the soil changes from semi-solid to plastic. If smearing or glazing of trench sidewalls and bottom has occurred in clay soils, it is recommended that these soil surfaces be raked or scarified.

3. The proper elevation of each trench's header pipe should be determined to ensure compliance with the trench bottom depth shown on the approved permit.

4. The drainfield shall receive effluent from a distribution box or header pipe as specified in 64E-6.014, Construction Standards for Drainfield Systems.

5. The minimum distance between trench sidewalls shall be 24-inches, per 64E-6.014(5)(a), FAC. In bed systems, EZflow configurations shall be placed side by side, with no space between bundles.

6. Remove the plastic stretch wrap from the EZflow bundles prior to placing them in the trench(es). Remove any stretch wrap in the trench or bed before the system is covered.

7. Place the EZflow bundle(s) in the approved configuration. The center-most bundles containing pipe are joined end to end with an internal pipe coupler. The aggregate-only bundles should be butted against the other aggregate-only bundles and do not require any type of connection.

8. The top of each GEO cylinder contains a pre-manufactured filter fabric between the netting and aggregate. The installer shall ensure that the fabric is on top and is in contact with the fabric contained in the adjacent cylinder before backfilling. The span of fabric at each sidewall shall not exceed 180 degree reach (i.e. 9 o'clock to 3 o'clock).

9. Header/effluent lines from the distribution box or device will be connected to the center-most pipe bundle in each trench or each line in a bed.

10. In beds or mounds, pipes shall be "looped" (connected) with an end manifold. For trench systems, looping ends are not required. If looping ends are not in the design, then the end lines shall be capped.

11. The trench bottom shall be level or with a downward slope not exceeding one (1) inch per ten (10) feet.

12. EZflow EPS 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 EPS bundles shall be loosely placed and not compacted.

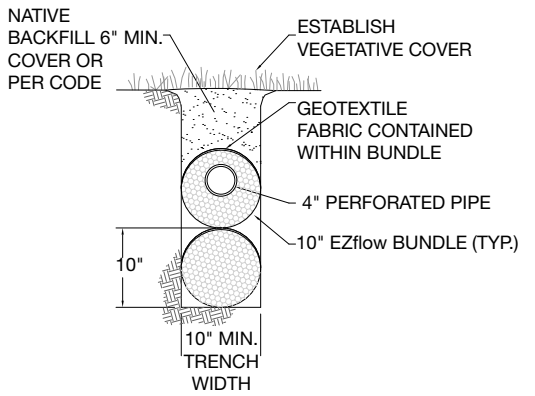
Inspection

Before covering the system, it shall be inspected by the department, per 64E-6.003(2). 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.

Sod, 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.

Approved EZflow Products

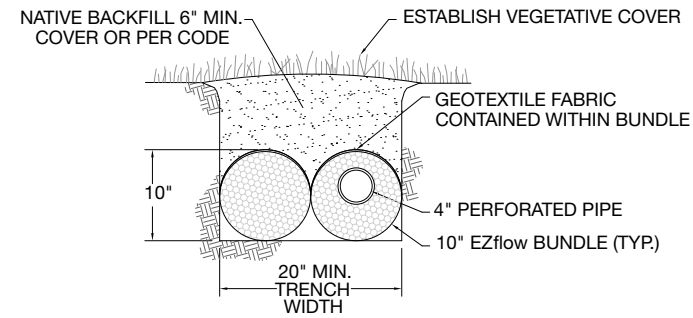
1002V/ 1002V-GEO



SIZING EXAMPLE: 300 sq ft required. 300 X 0.25 = 75 lft required.

PROPERTIES AND SPECIFICATIONS			
Overall System Height	20”	Trench Width	12”-36”
Invert Height	13”	Trench Depth	26”
		Trench Modification	25%

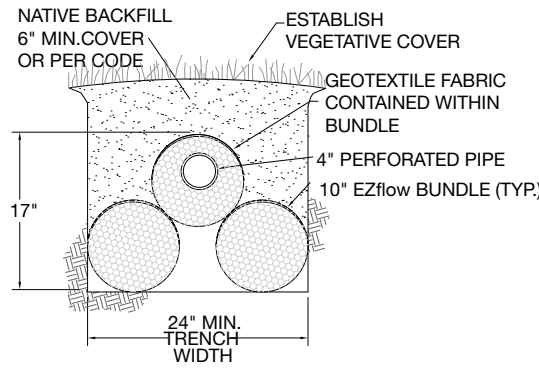
1002H/ 1002H-GEO



SIZING EXAMPLE: 300 sq ft required. 300 X 0.30 = 90 lft required.

PROPERTIES AND SPECIFICATIONS			
Overall System Height	10”	Trench Width	20”-36”
Invert Height	3”	Trench Depth	16”
		Trench Modification	10%

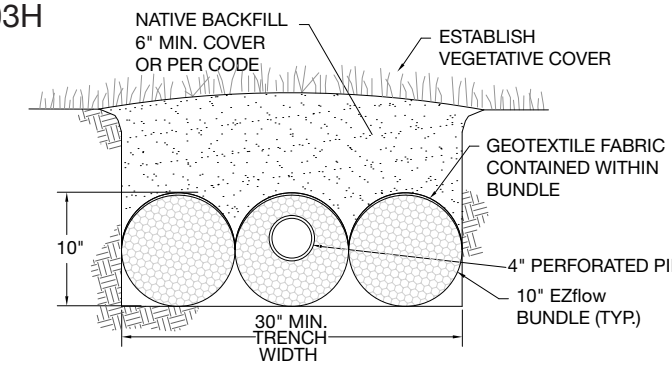
1003T/ 1003T-GEO



SIZING EXAMPLE: 300 sq ft required. 300 X 0.20 = 60 lft required.

PROPERTIES AND SPECIFICATIONS			
Overall System Height	17”	Trench Width	24”
Invert Height	10”	Trench Depth	23”
		Trench Modification	40%

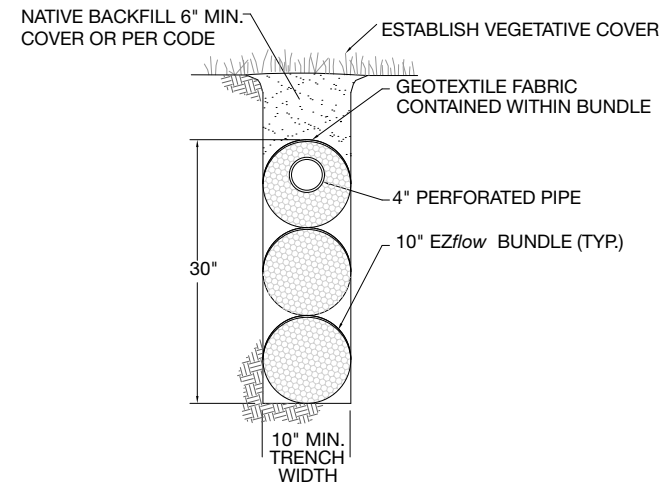
1003H-GEO/ 1003H



SIZING EXAMPLE: 300 sq ft required. 300 X 0.24 = 72 lft required.

PROPERTIES AND SPECIFICATIONS			
Overall System Height	10”	Trench Width	30”-36”
Invert Height	3”	Trench Depth	16”
		Trench Modification	25%

1003V/ 1003V-GEO

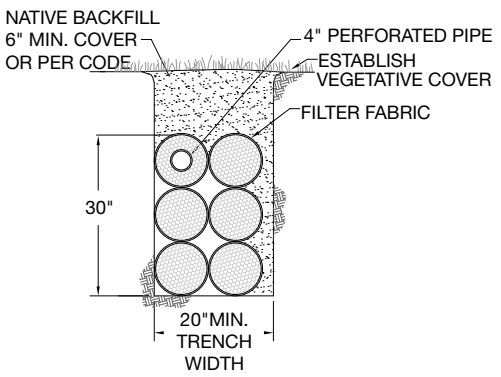


SIZING EXAMPLE: 300 sq ft required. 300 X 0.16 = 48 lft required

PROPERTIES AND SPECIFICATIONS			
Overall System Height	30”	Trench Width	12”-36”
Invert Height	23”	Trench Depth	36”
		Trench Modification	52%

Approved EZflow Products

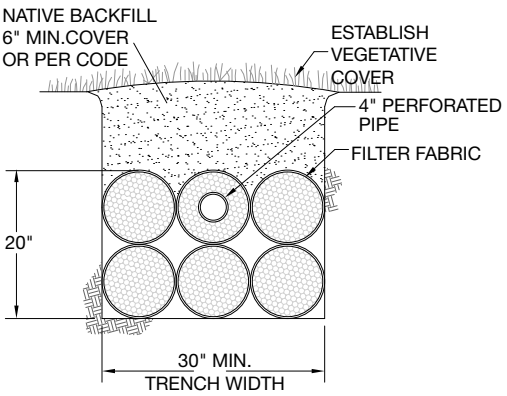
1006V/ 1006V-GEO



SIZING EXAMPLE: 300 sq ft required. 300 X 0.10 = 30 lft required.

PROPERTIES AND SPECIFICATIONS			
Overall System Height	30”	Trench Width	20”-24”
Invert Height	23”	Trench Depth	36”
		Trench Modification	70%

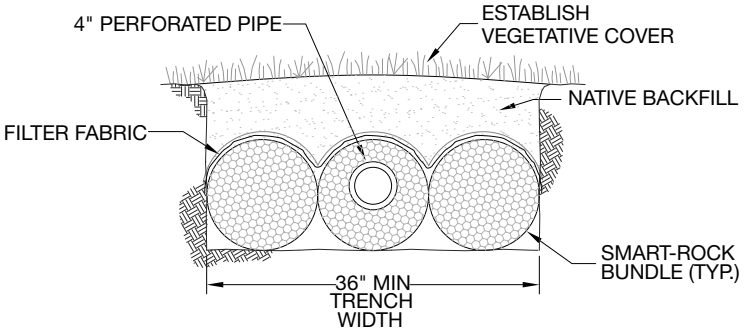
1006H/ 1006H-GEO



SIZING EXAMPLE: 300 sq ft required. 300 X 0.17 = 51 lft required.

PROPERTIES AND SPECIFICATIONS			
Overall System Height	20”	Trench Width	30”-36”
Invert Height	13”	Trench Depth	26”
		Trench Modification	49%

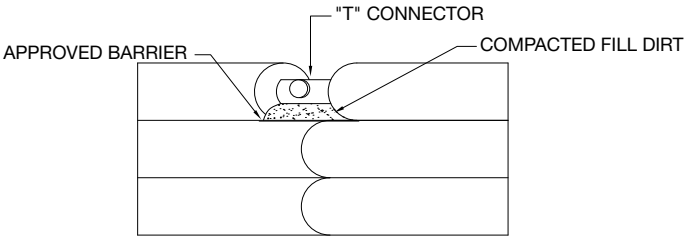
1203H/ 1203H-GEO

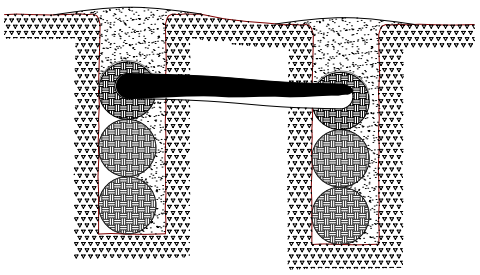


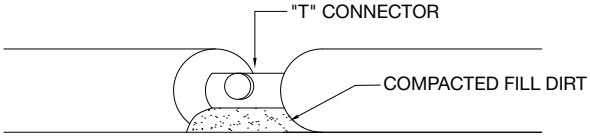
SIZING EXAMPLE: 300 sq ft required. 300 X 0.23 = 69 lft required.

PROPERTIES AND SPECIFICATIONS			
Overall System Height	12”	Trench Width	36”
Invert Height	6”	Trench Depth	24”
		Trench Modification	31%

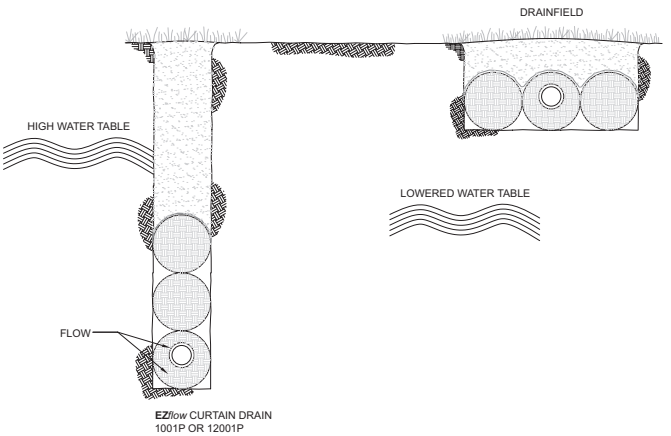
Tee and Crossover Installation



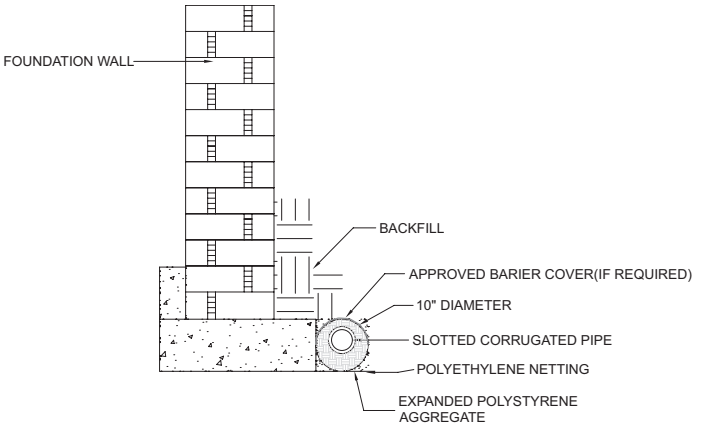




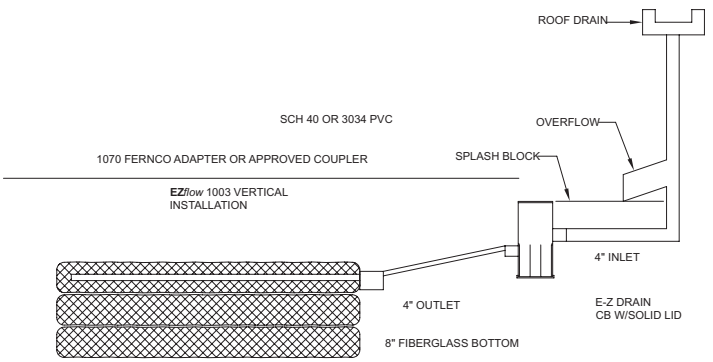
Perimeter Drain Detail



Foundation Drain Detail



Roof Drain System



NOTE: The EZflow system requires only a 12" cover or cap in the state of Alabama. Contact local county inspector for specific requirements.

Analytical Methods for Sizing

Sizing is based on the conventional gravel system in each state. The Pankow formula calculates each EZflow configuration's equivalency and gives that configuration a factor number. The factor number is multiplied by the number of square feet required for the conventional system as permitted. Each configuration was developed for a limited condition on site (i.e. limited space, high water table, etc.). Be sure to review all configurations for the best system to meet the site conditions.

Formula for Sizing

Conventional system's sq. footage on permit	**x**	EZflow configuration number factor on sizing chart	**=**	EZflow linear footage for that configured system's length

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.

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