

Installation Instructions for EZflow Systems in New Hampshire



The New Hampshire Department of Environmental Services approves Infiltrator Systems Inc. **EZflow** branded products 1201P, 1201P-GEO, 1202H, 1202H-GEO, 1203H, and 1203H-GEO for use as part of a subsurface wastewater disposal system approved under the Wastewater System and Potable Water Supply Rules, effective January 1, 2005 (Rules). The wastewater disposal systems must be designed, installed and operated in accordance with the Rules and as described in the information packet submitted on November 29, 2006.

EZflow systems must be installed with the inlet invert of the distribution piping at least 6 inches above the infiltrative surface of the absorption trench or bed. Sizing of wastewater disposal systems which incorporate the **EZflow** systems shall be in accordance with §1-511, §1-512, §1-517, and §1-520.

Pressure distribution is required for the use of **EZflow** systems in all mound wastewater disposal systems (§1-517) and filtrate effluent disposal systems (§1-520). No reduction in system size or separation to seasonal high groundwater or bedrock may be taken for use of **EZflow** systems.

Materials and Equipment needed

- **EZflow** Bundles
- **EZflow** Barrier Paper (if not using GEO)
- **EZflow** Internal Pipe Couplers
- **EZflow** Versa Couplers
- Pipe for Header and Inlet

Installation Instructions

The instructions for installation of **EZflow** products are given below. This product must be installed in accordance with Wastewater System and Potable Water Supply Rules, effective January 1, 2005 (Rules), as well as the local health department's current design manual.

1. The **EZflow** 1201P product is 12 inches in diameter by 5 or 10 feet long, containing a 4-inch perforated pipe surrounded by EPS aggregate. .
2. The **EZflow** 1202H product is 12 inches in diameter by 5 or 10 feet long. One of the polyethylene net bundles contains expanded polystyrene aggregate only and one contains a four-inch pipe surrounded by EPS aggregate.
3. The **EZflow** 1203H product is 12 inches in diameter 5 or by 10 feet long. Two of the polyethylene net bundles contain expanded polystyrene aggregate only and one contains a four-inch pipe surrounded by EPS aggregate.

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

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. 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 solid PVC effluent pipe going to each trench should be determined to ensure compliance with the required maximum trench bottom depth as shown on the approved permit. This height may vary dependent on system height and configuration used.
4. Remove **EZflow** stretch wrap prior to placing bundles in the trench(es). Remove any stretch wrap in the trench before system is covered.
5. 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.
6. The top of each 1201P-GEO, 1202H-GEO, and 1203H-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 and is in contact with the fabric contained in the adjacent cylinder before backfilling.
7. If not using a GEO product, **EZflow** 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 **EZflow** Drainfield Systems should be installed in a level trench in all directions (both across and along the trench bottom) and should follow the contour of the ground surface elevation (uniform depth), with all continuous adjoining 10-foot cylindrical bundles placed end to end, with the central bundle distribution pipe interconnected, without any dams, stepdowns or other water stops.
10. When surface slopes are greater than two percent, the bottom of the nitrification trenches shall follow the contour of the ground. An engineer's level or equivalent shall be used for installation and inspection.
11. **EZflow** EPS bundles are flexible and can fit in curved trenches as may be necessary to avoid trees, boulders, or other obstacles.
12. The soil cover over the nitrification field should be to a depth of at least six inches.
13. The finished grade over the nitrification field should be landscaped to prevent the ponding of surface water.

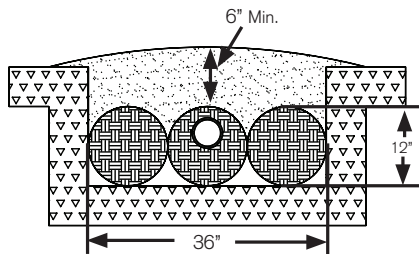
14. Soil cover above the original grade should be placed at a uniform depth over the entire nitrification field, except as required to prevent the ponding of surface water.

15. The soil cover should be placed over nitrification field after proper preparation of the original ground surface.

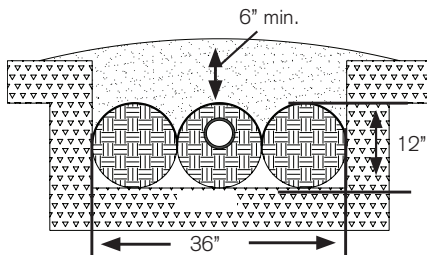
Repeat steps 1 thru 15 for each required trench.

Approved EZflow Products

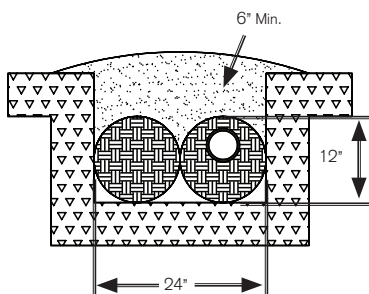
EZflow 1203H



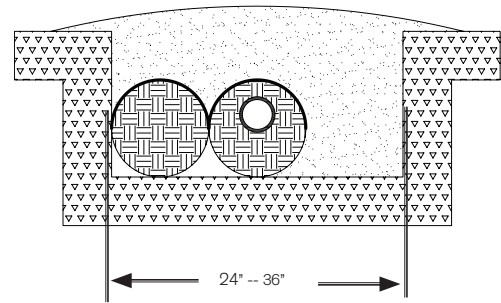
EZflow 1203H-GEO



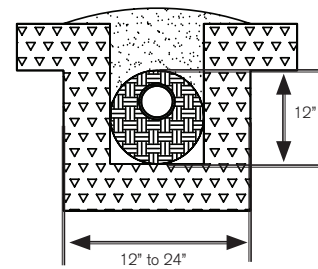
EZflow 1202H



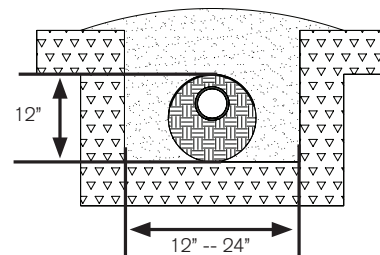
EZflow 1202H-GEO



EZflow 1201P



EZflow 1201P-GEO



EZ_{flow} Sizing

Single-Family and Duplex - Number of Bedrooms Up to 10					Commercial
Percolation Rate in Minutes Per Inch	2 (300 GPD)	3 (450 GPD)	4 (600 GPD)	Each Add' BR (+250 GPD)	Per 100 GPD
2	240	336	450	113	125
4	255	370	495	126	140
6	270	405	540	140	155
8	300	450	600	153	170
10	330	495	660	167	185
12	360	540	720	180	200
14	382	573	765	191	213
16	405	606	810	203	225
18	427	639	855	214	237
20	450	672	900	225	250
22	465	695	930	232	258
24	480	718	960	240	266
26	495	740	990	247	274
28	510	763	1020	255	282
30	525	786	1050	262	290
32	540	809	1080	269	298
34	555	832	1110	277	306
36	570	854	1140	285	314
38	585	877	1170	293	322
40	600	900	1200	300	330
42	630	945	1260	315	347
44	660	990	1320	330	364
46	690	1035	1380	345	381
48	720	1080	1440	360	398
50	750	1125	1500	375	415
52	780	1170	1560	390	432
54	810	1215	1620	405	449
56	840	1260	1680	420	466
58	870	1305	1740	435	483
60	900	1350	1800	450	500



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