

## Indiana Application of 410 IAC 6-8.2-59(p): Septic Tank Outlet Filters

The Indiana State Department of Health Rule 410 IAC 6-8.2, *Residential Onsite Sewage Systems*, effective on January 1, 2011, requires that new septic tanks be equipped with a septic tank outlet filter. The outlet filters must:

- (A) conform to ANSI/NSF Standard 46, *Evaluation of Components and Devices Used in Wastewater Treatment Systems*, maintain a current product listing with an ANSI accredited third-party certifier, and bear a listing mark; and
- (B) be rated by the manufacturer with a daily flow rate of one and one-half (1 1/2) times the total required septic tank capacity; or
- (C) be approved by the department.

ANSI/NSF, under Standard 46, lists septic tank outlet filters that have a rated flow capacity of 400 to 1,500 gallons per day which meets its testing protocol. That listing is available at <http://www.nsf.org/Certified/Wastewater/Listings.asp?TradeName=&Standard=046>. In accordance with the provisions of the rule, any septic tank outlet filter with which meets the four items listed below may be used for onsite sewage systems without further review by the Indiana State Department of Health (department).

The septic tank outlet filter must have:

1. a rated flow capacity of 400 to 1,500 gpd,
2. a current product listing showing conformance with Standard 46,
3. a gas deflection baffle,
4. an outlet filter housing that provides a minimum scum space of six (6) inches, and that extends below the liquid level at least ten (10) inches, but not more than forty percent (40%) of the tank liquid depth, and
5. a daily flow capacity of at least 1 ½ times the required septic tank capacity.

We also recommend that all filters be equipped with an alarm system, and that existing tanks be retrofitted with a filter when the soil absorption field is replaced.

Because the rule requires a daily flow rate of 1 ½ times the total required septic tank capacity, Table 1, below, shows the septic tank outlet filter rating requirement (in gallons) for the various septic tank sizes specified in the rule. Septic tank outlet filters listed by ANSI/NSF as conforming to Standard 46 may be used in tandem to achieve the required filter flow capacity of each tank capacity.

Table 1		
Required Minimum Capacities for Septic Tanks		
Number of Bedrooms in Dwelling	Capacity of Tank(s) in Gallons	Minimum required daily flow capacity of the septic tank outlet filter
2 or less	750	1,125
3	1,000	1,500
4	1,250	1,875
5	1,500	2,250
5 +	1,500 plus 150 multiplied by the number of bedrooms over 5	Capacity of tank(s) in gallons multiplied by 1.5

In addition, many manufacturers provide septic tank outlet filters with rated flow capacities greater than those tested by ANSI/NSF under Standard 46. Those filters with the higher rated flow capacities are listed by the department for use in Indiana. The flow ratings listed are determined by the filter manufacturers based on their own calculations/test data and their field experience with maintenance intervals. As of this date, the department has reviewed the following septic tank outlet filters with flow ratings greater than 1,500 gpd based on documentation provided by the manufacturer and have no objection to their use in Indiana in accordance with the provisions of 410 IAC 6-8.2-59(p),:

Bear Onsite, LLC:

- ML3-910, flow rating of 3,350 gpd
- ML3-916, flow rating of 2,750 gpd
- ML3-925, flow rating of 2,750 gpd
- ML3-932, flow rating of 2,750 gpd

Clarus Environmental:

- #5000-0007, Model WW4, flow rating of 4,000 gpd

Polylok, Inc.:

- PI-122, flow rating of 3,000
- PI-525, flow rating of 10,000 gpd
- PI-625, flow rating of 8,000 gpd

Tuf-Tite, Inc.:

- Model EF-6 Combo, flow rating of 3,000 gpd

Zabel Environmental Technology, Inc.:

- A100 8x18 VC, flow rating of 3,000 gpd
- A100 8x26 VC, flow rating of 3,800 gpd
- A100 8x32 VC, flow rating of 5,100 gpd
- A100 12x20 VC, flow rating of 5,700 gpd
- A100 12x28 VC, flow rating of 8,600 gpd
- A100 12x36 VC, flow rating of 10,000 gpd
- A300 8x18 VC, flow rating of 1,700 gpd
- A300 8x26 VC, flow rating of 2,600 gpd
- A300 8x32 VC, flow rating of 3,500 gpd
- A300 12x20 VC, flow rating of 3,900 gpd
- A300 12x28 VC, flow rating of 5,900 gpd
- A300 12x36 VC, flow rating of 7,900 gpd

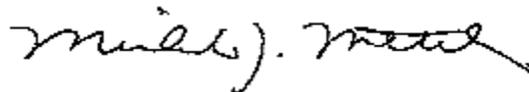
Each of these filters must also comply with items 2 through 4 on the first page of this document.

Additional filters with rated flow capacities greater than 1,500 gpd may be listed upon written request of the manufacturer. The request must clearly include the name of the manufacturer, address, contact information, product number, verification of ANSI/NSF certification under Standard 46, data and testing for verification of flow capacity, product schematics, and product pictures.

Approved: March 10, 2011

Revised: March 31, 2011

Effective: March 31, 2011

A handwritten signature in black ink, appearing to read "Mettler, Rehs". The signature is written in a cursive style with a large initial "M" and a long horizontal stroke at the end.

MICHAEL METTLER, REHS, DIRECTOR  
ENVIRONMENTAL PUBLIC HEALTH DIVISION