

Indiana Application of 410 IAC 6-8.3-64 and 410 IAC 6-10.1-72: Septic Tank Outlet Filters

The Indiana State Department of Health *Rule 410 IAC 6-8.3, Residential On-site Sewage Systems*, was effective November 18, 2012, and revised on September 28, 2013 and May 9, 2014. Indiana State Department of Health Rule 410 IAC 6-10.1, *Commercial On-site Sewage Systems*, was effective on November 18, 2012, and revised on September 28, 2013, and May 17, 2014. Both rules require that new septic tanks be equipped with a septic tank outlet filter. Section 64 of the residential rule and section 72 of the commercial rule outline the requirements for the septic tank outlet filters. In order to be approved an outlet filter must:

- 1. conform to ANSI/NSF Standard 46-2010a, 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;
- 2. prevent the passage of solids larger than one-eighth (1/8) inch;
- 3. have inlets and outlets of at least four (4) inches in diameter;
- 4. function without a bypass of unfiltered sewage, sludge, or scum, during normal use and during cleaning or exchange;
- 5. be made of a noncorrosive material designed for use in sewage applications;
- 6. maintain structural integrity, not tearing or distorting so as to make it inoperable during normal operation throughout the life of the device;
- 7. have removable outlet filter cartridges;
- 8. be provided with a gas deflection baffle; and
- 9. have an outlet filter housing that provides a minimum scum space of five (5) 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.

The department also recommends 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.

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.

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. The filter must be selected based on the design daily flow through the septic tank and the flow rating of the manufacturer. The flow rating must be equal to or greater than the design daily flow through the tank. 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 6-8.3-64 for residential systems or 410 IAC 6-10.1-72 for commercial systems:

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

Polylok, Inc.:

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

Clarus Environmental:

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

Tuf-Tite, Inc.:

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

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 46-2010a, data and testing for verification of flow capacity, product schematics, and product pictures.

Approved: March 10, 2011 Revised: March 31, 2011 Revised: November 20, 2012 Revised: May 17, 2014

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