



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF WATER STANDARDS AND FACILITY REGULATION

April 28, 2011

Ms. Marie-Christine Belanger
Technological Development Director
Premier Tech Aqua
1881 West North Temple
Salt Lake City, Utah 84116

Dear Ms. Belanger:

In accordance with Title 25, Chapter 73, Section 73.72, DEP has classified the Premier Tech Ecoflo[®] Biofilter vessel (Ecoflo vessel) (Model #STB-570P, #STB-570PR, #STB-650B-H1, and #STB-650BR Series only) for use as an alternate onlot sewage treatment component in the Commonwealth of Pennsylvania.

The Ecoflo vessel is either a polyethylene or concrete tank which combines the packed bed filter unit and an integrated dosing pump/chamber into a single vessel. The Ecoflo vessel has been certified by NSF as meeting the requirements of NSF Standard 40.

This classification permits the use of the Ecoflo vessel as a component used for the specific purposes of reducing BOD and TSS in the sewage prior to discharge to an absorption area. This component has demonstrated that it can produce an effluent equal to or better than 10 mg/L BOD5/CBOD5 and 10 mg/L TSS as monthly averages. Combined with ultraviolet disinfection, the Ecoflo vessel can also reduce fecal coliform concentrations to less than 200 cfu/100 ml on a monthly average basis.

The onlot system must be designed such that the following design requirements are adhered:

1. The Ecoflo vessels classified for use are the following Models: #STB-570P, #STB-570PR, #STB-650B-H1, and #STB-650BR Series only;
2. The Ecoflo vessel must be installed by an Ecoflo authorized installer;
3. A minimum of 31.5 inches deep of peat must be evenly distributed in the filter unit;
4. The maximum daily hydraulic loading that can be applied on the filtering media surface must not exceed 8.75 gal/ft²-day;
5. Dosing to the absorption area must conform with Section 73.45(2) and 73.45(3);
6. Installation of the Ecoflo vessel must meet the requirements described in the Alternate Peat Based System Options of the Alternate Systems Guidance (ASG) (February 6, 2004 edition) unless specified otherwise in this letter.

DEP Alternate Classification Listing
Ecoflo Biofilter Vessel
Classification #A2011-0008-0001
Classification Date: April 28, 2011

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If you have any questions regarding this information, please contact this office at (717) 787-8184.

Sincerely,



John R. Diehl, P.G.
Chief, Act 537 Management
Division of Permitting and Planning



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

December 10, 2012

Mr. Mike Kaub
Regional Supervisor
Premier Tech Aqua
123 Ledgeview Drive
Hawley, PA 18428

Re: Ecoflo Biofilter Vessel
Classification #A2012-0011-0001

Dear Mr. Kaub:

In accordance with Title 25, Chapter 73, Section 73.72, DEP has classified the Premier Tech Ecoflo[®] Biofilter vessel (Ecoflo vessel) (Model #STB-650P, #STB-650PR, #STB-730P, and #STB-730PR only) for use as an alternate onlot sewage treatment component in the Commonwealth of Pennsylvania.

The Ecoflo vessels are polyethylene tanks which utilize a packed bed comprised of peat in the main tank. Model numbers with the "P" extension signifies that that the vessel is polyethylene and the vessel is to be utilized for gravity distribution. Model numbers with the "PR" extension signifies that the vessel is polyethylene and the vessel incorporates an integrated dosing pump/chamber as part of the main tank to be used for pressure distribution. The Ecoflo vessel has been certified by NSF as meeting the requirements of NSF Standard 40.

This classification permits the use of the Ecoflo vessel as a component used for the specific purposes of reducing CBOD and TSS in the sewage prior to discharge to an absorption area. This component has demonstrated that it can produce an effluent which shall not exceed 10 mg/L CBOD5 and 10 mg/L TSS as monthly averages. Combined with ultraviolet disinfection, the Ecoflo vessel can also reduce fecal coliform to treatment levels which shall not exceed 200 cfu/100 ml on a monthly average basis.

The onlot system must be designed such that the following design requirements are adhered:

1. The Ecoflo vessels classified for use are the following models: #STB-650P, #STB-650PR, #STB-730P, and #STB-730PR only;
2. The Ecoflo vessel must be installed by an Ecoflo authorized installer;
3. A minimum of 31.5 inches deep of peat must be evenly distributed in the filter unit;
4. The maximum daily hydraulic loading that can be applied on the filtering media surface must not exceed 8.75 gal/ft²-day;
5. Dosing to the absorption area must conform with Section 73.45(2) and 73.45(3);
6. Installation of the Ecoflo vessel must meet the requirements described in the Alternate Peat Based System Options of the Alternate Systems Guidance (ASG) (February 6, 2004 edition) unless specified otherwise in this letter.

If you have any questions regarding this information, please contact this office at (717) 787-8184.

Sincerely,



John R. Diehl, P.G.
Chief, Act 537 Management
Division of Permitting and Planning