



January 17, 2012

BORD NA MONA  
ENVIRONMENTAL PRODUCTS U.S. INC.  
COLIN BISHOP, R.S.  
PO BOX 77457  
GREENSBORO NC 27417

Re: Description: SEWAGE TREATMENT SYSTEM, SINGLE PASS PEAT FILTER  
Manufacturer: BORD NA MONA  
Product Name: PURAFLO® PEAT FIBER BIOFILTER  
Model Number(s): OPEN-BOTTOM MODULES  
Model(s)-- P150N\*3A; P150N\*4A; P150N\*5A; P150N\*6A; P150N\*7A; P150N\*8A;  
P150N\*9A; and P150N\*10A; P150N\*3B; P150N\*4B; P150N\*5B; P150N\*6B; P150N\*7B;  
P150N\*8B; P150N\*9B; and P150N\*10B; and including sampling module.

(The number preceding A or B compares to the number of modules in the design, based on 150 gpd/module; the 3A is three modules and sized for max. DWF of 450 gpd. All model A modules have blue or green coded covers; the module with the attached sampling chamber has a green coded cover; all model B modules have white coded covers.)

DESCRIPTION: Open-bottom modules containing proprietary bio-fibrous peat media (Puraflo® fiber) downstream of septic/pump or siphon tanks as secondary treatment for residential strength wastewater. A models that have 10 or 20 weep holes are used for in-ground pad designs; B models have threaded insert holes and are used when effluent is collected and piped for mounded pad system designs.

[MODULE DIMENSIONS = 7.08 FT. L X 4.5 FT. W X 2.5 FT. H; MAX. DWF 150 GPD/module; MAX. 0.3755 BOD5 lbs./day per module]

**Product File No: 20100492**

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

**The Department hereby issues an alternate approval to s. SPS 383 soil application rates, Table 83.44-1,-2, -3 based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of January 2017.**

This alternate approval is contingent upon compliance with the following stipulation(s):

- Approval is issued for this product because the design of the product meets the intent of s. SPS 383.44, Wis. Adm. Code that requires sewage treatment components be constructed in accordance with s. SPS 384.25, Wis. Adm. Code. The intent of the code is met since this product provides an acceptable means of treating wastewater when it is installed in accordance with this approval.
- ALTERNATE APPROVAL: To meet the intent of the code, effluent from this product must be discharged to an acceptable POWTS treatment and dispersal component that complies with ch. SPS 383 of the Wisconsin Administrative Code.

- **INDIVIDUAL SITE DESIGN:** Each POWTS design utilizing open bottom modules and the mounded pad design or in-ground pad designed according to the Puraflo® Peat Fiber Biofilter Design and Installation Manual for Wisconsin (ver. 1.0), must be submitted to the department as an Individual Site Design (ISD). (For forms and fees, see: <http://dsps.wi.gov/SB/docs/SB-FormPlumbingProductApp7966.pdf>). Plan review for the installation of this product must be obtained from the department in accordance with s. SPS 382.20 (1) of the Wis. Adm. Code.
- **INDIVIDUAL SITE DESIGN AND INSTALLATION:**
  1. Any POWTS plans that include this product/device as a treatment component must be submitted to the Department for approval as an Individual Site Design (ISD).
  2. Each POWTS design utilizing open bottom models and mounded pad design or the in-ground pad soil dispersal design using the Puraflo® Peat Fiber Biofilter Design and Installation Manual for Wisconsin (ver. 1.0), must be submitted to the department as an Individual Site Design (ISD). (For forms and fees, see: <http://dsps.wi.gov/SB/docs/SB-FormPlumbingProductApp7966.pdf>).
  3. Plan review for the installation of this product must be obtained from the department in accordance with s. SPS 382.20 (1) of the Wis. Adm. Code.
  4. The installation of this product/device requires a properly licensed person to perform the installation and requires issuance of a state Sanitary Permit by the governmental unit (county) prior to the installation taking place.
- This product must not receive wastewater that has had septic tank additives introduced into the wastewater.
- **BEDDING:** The pad and/or trench bottom must be level. Fill and level the excavated area (also referred to as the foot-print area) with clean, No. 5 (3/4 to 1 inch) stone to a minimum depth of 6 inches.
- **DESCRIPTION:** Pre-treatment and dispersal system for domestic wastewater using time-dose into "open bottom" modules containing Puraflo® peat fiber media for in-ground pad soil dispersal systems or piped mound pad soil dispersal system designs.
- **DESIGN AND DISPERSAL METHODS:** The site-specific design will detail the final effluent dispersal method; each plan submittal must be an Individual Site Design (ISD). Effluent may be either discharged directly to a piped-outlet mounded pad installation into an in-ground pad, pressure system or other effluent dispersal methods, as applicable. The model numbers are identified as A for an in-ground pad design installations and B for piped-outlet mounded pad installation.
- **MANUAL:** See Puraflo® Peat Fiber Biofilter Design and Installation Manual for Wisconsin (ver. 1.0).
- **PEAT AND PROPER DISPOSAL:** Any changes to the Puraflo® Peat Fiber Biofilter Design Package (ver. 1.0) must be submitted to the department as a revision for review and approval. Proper disposal is required of any spent peat.
- **LOCKING:** Ensure that the Puraflo® module lids are securely fastened. The opening for each module must be at least 4 inches above finish grade and insulated for the site conditions.
- **LABELING:** Models specified with an A are specified for in-ground pad designs having the green and blue coded covers and 10 and 20 weep holes, respectively. Models specified with a B are specified for mounded pad designs having the white coded covers and threaded insert holes.
- The design and installation of this product must comply with the following conditions:
  1. Any changes to the Puraflo® bio-fibrous peat media must be submitted to the department as a revision for review and approval.
  2. The peat, interior piping and other treatment components of the module must be supplied by the manufacturer.
  3. The wastewater influent strength must be residential strength. The design wastewater flow to each module must not exceed 150 gallons per day; the flow must be equalized by use of a flow splitter manifold as recommended by the manufacturer.
  4. The influent directed to the modules must be time-dosed by the means of pressure distribution or siphon. The influent flow must be between 7 and 15 gallons per minute per module.
  5. Maximum particle size of the influent distributed to the modules must not exceed 1/32 inch.

6. All upstream tanks must be department approved and the system must include a department-approved effluent filter installed in accordance with the product approval for the filter including properly sized and located with an access opening adequately sized for service and maintenance.
7. The effluent from each module must be discharged to a mounded pad or in-ground pad treatment/dispersal cell by the use of pressure distribution or siphon preceding the modules meeting the sizing-specification results of the MS Excel worksheet available from the manufacturer as the Puraflo® Peat Fiber Biofilter Design Package; SEND A REQUEST TO:  
INFO@ANUA-US.COM .
8. Proper frost protection must be provided for any above-ground module lids.
9. The forcemain diameter is based upon the number of modules per design. Use a 2-inch diameter force main for designs using 1-6 modules; use a 4-inch diameter forcemain for designs using 7-10 modules.

TABLE 1  
INSPECTION, MAINTENANCE AND PUMPING  
PRODUCT/ (Models): BORD NA MONA PURAFLO®  
Type A and B, open bottom modules

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Initial/Startup Inspection/ Maintenance: serviced by manufacturer's representative or so trained credentialed person  
Routine Inspection/Maintenance: replace Puraflo® bio-fibrous peat media every 15 years depending on use and service agreement  
Ongoing Pumping Cycle And/Or Requirements: N/A  
Upstream-stream Effluent Filter: See stipulations herein  
Back-Wash Cycle: N/A  
Effluent Performance Levels: CLASS I NSF-40 LISTED  
BOD5 Credit For Downsizing Distribution Area: YES \*  
Fecal Credit For Reduction Of Vertical Separation: YES\*\*  
Additional Comments: NONE

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\* Proper function based on domestic wastewater or flows with similar wastewater characteristics.

\*\* **No additional vertical separation credit is provided for designs where the dispersal is collected and directed to a soil distribution area, or for the mound-pad design.**

- Soil Application Rates Based Upon Morphological Soil Evaluation (in gals./sq. ft./day):
  - . To design according to Excel spreadsheet utilizing a modified Tyler table in Puraflo® Type A Dispersal Design Sheet, SEND A REQUEST TO: INFO@ANUA-US.COM.
  - . This product is being approved as an "Alternate plumbing product", meaning that this device/product meets the intent of the code; however it does not meet the letter of the code. The design criterion relies on a "modified" Tyler table for system sizing. This product is now approved statewide for all installation that complies with this approval and companion plan approval as an Individual Site Design (ISD).
  - . The intent of the code is met since this product provides an acceptable means of treating wastewater when it is installed in accordance with its approval.
- Attachments: Bord na Mona's Install Checklist; Operation and Maintenance, Owner's Manual and Example of Mounded Pad Design. Additional information is included as attachment(s) to this letter; see attachment A, B, C and D..

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,