



May 22, 2014

AQUASHIELD, INC.
MARK MILLER
2733 KANASITA DR, STE 111
HIXON TN 37343

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: AQUASHIELD, INC.
Product Name: AQUA-SWIRL STORMWATER TREATMENT SYSTEMS
Model Number(s): AS-2, AS-3, AS-4, AS-5, AS-6, AS-7, AS-8, AS-9, AS-10, AS-11, AS-12 AND AS-13
Product File No: 20140092

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 approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of May 2019.**

This approval supersedes the approval issued on 2/02/2009 under product file number 20080552.

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

- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. DSPS 382.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- The review undertaken by department staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1.
- When this product is installed, the installation must be in accordance with the manufacturer's printed design installation instructions, ch. DSPS 382, plan approval under s. DSPS 382.20, and any product approval stipulations. When there is a conflict between manufacturer's installation instructions and plan approval conditions or product approval stipulations, the plan approval conditions or product approval stipulations will take precedence.
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- Any plumbing plans that include this device(s) and submitted to the department (or its agents) shall be accompanied by an acceptable modeling method, such as outlined in Method for Predicting the Efficiency of Proprietary Storm Water Sedimentation Devices (1006) for the specific site where the installation of this device(s) is planned. The submitted calculations, based on site-specific inputs, shall predict the removal efficiencies by concentration and percentage. For particle size distribution, in SLAMM use file: NURP.cpz.

For a copy of this standard, see:

http://dnr.wi.gov/runoff/pdf/stormwater/techstds/prop_devices_std_v2_051408.pdf

- Any plumbing plans that include this device(s) and submitted to the department (or its agents) shall be accompanied by an acceptable modeling analysis for the specific site where the installation of this device(s) is planned. The submitted calculations, based on site-specific inputs, shall predict the removal efficiencies by concentration and percentage for both TSS and O&G. For particle size distribution, use the EPA-NURP (National Urban Runoff Program] distribution.
- Labeling: Each product shall have an AquaShield metal label permanently affixed which includes at least the following information: U.S. Patent No., Aqua-Squirrel System (model no./size) and contact information for the manufacturer; see sample in Attachment A.

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,

Glen Jones, M.S.
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