

January 13, 2011

ORENCO SYSTEMS
GOVERNMENT RELATIONS
NICHOLAS NOBLE
814 AIRWAY AVE
SUTHERLIN OR 97479

Re: **Description:** **SEWAGE TANK EFFLUENT PUMP SYSTEM (STEP)**
Manufacturer: ORENCO SYSTEMS
Product Name: 1000 GALLON FIBERGLASS TANK
Model Number(s): 1000
[FOR PUMP SETTINGS SEE ATTACHMENT A; GALS. PER INCH IN ONE-INCH INCREMENTS]
Product File No: 20100496

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, 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 MARCH 2016.**

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

- This tank must be designed to withstand the pressures to which it will be subjected.
- The manufacturer must keep at the manufacturing plant a set of plans and specifications bearing the department's stamp of approval. The plans and specifications must be open to inspection by an authorized representative of the department.
- Installation and servicing of this product must be in accordance with the manufacturer's instructions. A copy of the manufacturer's installation and servicing instructions must be given to the owner of the system.
- **A pump rated for effluent use must be used.**
- The discharge rate of the pump must not exceed 40 gallons per minute.
- The capacity and float levels must comply with the follow requirements:
 1. A treatment zone equal to at least 2.088 times the design wastewater flow entering the tank,
 2. A drawdown zone based on the system design, and
 3. A one-day reserve zone above the high water alarm level based on the estimated wastewater flow.
- When this product receives wastewater from dwellings and is used as a septic tank effluent pump system, it will produce an effluent quality with a maximum monthly average value for BOD5 of greater than 30 mg/L and less than or equal to 220 mg/L, TSS of greater than 30 mg/L or less than or equal to 150 mg/L TSS, F.O.G. of less than 30 mg/L and solids of 1/8 inch or less.

- **EFFLUENT FILTER-** A department approved effluent filter must be installed in accordance with the product approval for the filter including a properly sized and located access opening for service and maintenance.
- **BEDDING:** Tanks to be set on a min. 4-in. compacted sand or approved granular bedding overlying a uniform base. Base to be stable and uniform in order to ensure equal bearing across tank bottom.
- **Additional information is included as attachment(s) to this letter; see attachment A.**

This approval supersedes the approval issued on 3/24/2005 under product file number 20050100.

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20050100.

As of May 15, 2008, a copy of a successful water tightness test report for this product must be AVAILABLE FOR INSPECTION AT THE MANUFACTURER'S PLANT prior to this product being used as a POWTS holding or treatment tank in Wisconsin.

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,

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