

February 19, 2010

ORENCO SYSTEMS
NICHOLAS NOBLE
814 AIRWAY AVE
SUTHERLIN OR 97479

Re: Description: SEWAGE TANKS, FIBERGLASS
Manufacturer: ORENCO SYSTEMS
Product Name: SEPTIC, HOLDING, PUMP OR SIPHON
Model Number(s): 1500
(51 IN. L.L., 48 IN. MAX. DEPTH OF BURY, 748 G.P.D. WHEN USED AS A SEPTIC TANK BASED ON A 3 YR. SERVICE INTERVAL FOR RESIDENTIAL WASTEWATER;
SEE STIPUALTIONS BELOW FOR GALS./IN. IN ONE-INCH INCREMENTS; TANK DIMENSIONS = 116.8 IN. L X 70 IN. W X 51 IN. H)
Product File No: 20100010

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 DECEMBER 2015.**

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.
- When this product receives wastewater from dwellings and is used as a septic tank, 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, or greater than 30 mg/L or less than or equal to 150 mg/L TSS, and F.O.G. of less than 30 mg/L.
- This product is approved to be used with the following:
 - Baffle wall, which have two 3 inch vent holes and four 3 inch diameter pass-through holes. The vent holes are located 60 inches above the bottom of the tank. The pass through holes are located 32 inches above the bottom of the tank.
 - The location of the baffle wall must be installed in the first or second rib from the outlet of the tank.
 - Orenco pipe grommets for sealing openings through tank and riser.
 - Orenco fiberglass lid, with or without air vent or lid installation option.
 - Orenco Perma-Loc, Ultra Rib, or Kor flo access risers.
- Installation of this tank must include water tightness testing performed in accordance with the manufacturer's printed instructions as noted in Orenco Fiberglass Tank Installation Instructions for Injection-Molded FRP Tanks publication NIN-TNK-1 Rev. 3.3, copyright 12/04.
- The riser lid must be attached to the riser by using tamper proof lid bolts provided by Orenco.

- The gallon capacity per inch of the Orenco 1000 gallon dose tank is shown in the table below.

Height from tank bottom	Gallons capacity	Height from tank bottom	Gallons capacity	Height from tank bottom	Gallons capacity
4	35	20	460	36	1052
5	52	21	495	37	1089
6	70	22	530	38	1126
7	91	23	566	39	1162
8	113	24	602	40	1198
9	136	25	638	41	1234
10	160	26	674	42	1270
11	185	27	711	43	1305
12	211	28	748	44	1340
13	239	29	785	45	1374
14	268	30	823	46	1407
15	298	31	861	47	1439
16	329	32	900	48	1471
17	361	33	939	49	1502
18	393	34	977	50	1532
19	426	35	1015	51	1561

- Tank weight is approximately 470 pounds for a tank without baffle wall and 500 pounds for a tank with baffle wall.
- 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.**

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20090319.

This approval supersedes the approval issued on 09/01/2009 under product file number 20090319.

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,

Jean M. MacCubbin, CST
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