

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
 DIVISION OF PUBLIC HEALTH  
 ENVIRONMENTAL HEALTH SECTION  
 ON-SITE WATER PROTECTION BRANCH

North Carolina Prefabricated Tank Approval

Issued To: Infiltrator Systems Inc.  
 4 Business Park Rd.  
 Old Saybrook, CT 06475

For: Infiltrator IM-1060 (IM Series) Thermoplastic Tank (1,094 gallon septic tank and 1,287 gallon pump tank), Infiltrator IM-1530 (IM Series) Thermoplastic Tank (1,509 gallon septic tank and 1,765 gallon pump tank), and TW Series Polyethylene Tank (1,050, 1,250, and 1,500-gallon septic tanks and 1,055, 1,212, 1,448, and 1,762-gallon pump tanks)

Date: March 14, 2014

I. Material

The tanks shall meet or exceed the requirements in either of the following standards, including any subsequent amendments or editions to the documents:

- A. CSA B66-10;
- B. IAPMO Guide Criteria 262-2010 Corrugated Thermoplastic Tank; or
- C. IAPMO/ANSI Z1000-2013 Prefabricated Septic Tanks.

II. Design Criteria

- A. Nominal wall thickness: 0.2 inches, minimum – IM Series  
 0.7 inches, minimum – TW Series

- B. Tank dimensions as shown on the plans

Tank Size	1055 gallon (PT)	1050 gallon (ST) 1212 gallon (PT)	1250 gallon (ST) 1448 gallon (PT)	1500 gallon (ST) 1762 gallon (PT)	1094 gallon (ST) 1287 gallon (PT)	1509 gallon (ST) 1765 gallon (PT)
	TW-900	TW-1050	TW-1250	TW-1500	IM-1060	IM-1530
Approval Number	PT-2061	STB-2054 PT-2062	STB-2055 PT-2063	STB-2056 PT-2064	STB-2071 PT-2077	STB-3000 PT-2096
Length (outside)	110.4 inches	123.7 inches	143.7 inches	170.1 inches	127 inches	175.6 inches
Width (outside)	66 inches	66 inches	66 inches	66 inches	62.2 inches	61.7 inches
Height (outside)	50.6 inches	50.6 inches	50.6 inches	50.6 inches	54.7 inches	54.5 inches

III. Tank Sizing

Based on the criteria established in 15A NCAC 18A .1952.

IV. Risers

Approved risers for use with Infiltrator tanks are Infiltrator TW Series riser, EZSet riser, Polylok 24-inch risers, Tuf-Tite 24-inch risers, and the 24-inch IPEX Ultra-Rib PVC pipe.

V. Pump Tank Calibration

A calibration chart specific to the pump tank size must be provided to allow the operator to perform a valid pump drawn down test.

#### VI. Siting Criteria

- A. Tanks installed in areas with saturated soil conditions or indication of a seasonal high water table, per 15A NCAC 18A. 1942(a), between the ground surface and the bottom of the proposed tank installation excavation must use anti-buoyancy control measures as per the manufacturer's installation instructions.
- B. Tanks shall not be installed in areas which are to be subject to vehicular loading of any kind.
- C. Tanks shall not be stored or installed in areas which may be subject to exposure to an ignition source.
- D. Tanks shall be located and oriented in such a way that the inlet pipe shall enter the tank through one of the three preformed inlet pipe penetration points located at the inlet end of the tank. Inlet shall be through a gasket provided by the manufacturer.
- E. The tank outlet pipe shall be installed in one of the three preformed outlet pipe penetration points located at the outlet end of the tank. The outlet shall be through a gasket provided or recommended by the manufacturer.
- F. Tank top must be at least 6 inches below the finished grade. Maximum burial depth is 36 inches below grade. The riser over the pump (outlet end) must be 6 inches above finished grade.
- G. Other siting criteria as specified in 15A NCAC 18A .1900, et seq. and minimum setback distances, as specified in 15A NCAC 18A .1950, shall be met.

#### VII. Installation and testing procedures

- A. Manufacturer's installation instructions for Infiltrator Systems Inc. tanks shall be adhered to, except as required herein or by 15A NCAC 18A .1900, et seq.
- B. Tanks shall be distributed through a network of dealers/distributors authorized by Infiltrator Systems, Inc, after all personnel involved in the sale of the septic tanks have completed Infiltrator Systems Inc. authorized product training. Authorized dealers may only sell tanks to authorized installers.
- C. All Infiltrator Systems, Inc approved tanks shall be installed by an installer who has been authorized in writing by Infiltrator Systems, Inc.
- D. Removal and modification of structural bulkheads is prohibited.
- E. Removal of locking clips on the IM-Series mid-seam connection is prohibited.
- F. Standard field soil classification methods shall be used to determine the soil textural class identified in the manufacturer's installation instructions.

#### VIII. Operation, maintenance and monitoring requirements

- A. System management entity, inspection/maintenance and reporting frequency requirements shall be in accordance with 15A NCAC 18A .1961
- B. Operation, maintenance and monitoring requirements shall be in accordance with the manufacturer's installation instructions, except as required herein or by 15A NCAC 18A .1900, et seq.
- C. The operator in responsible charge (ORC), where applicable, during their regular inspection and the local health department, during their regular system review, should remove any access lids and inspect the tanks for sign of infiltration, leakage and structural failure. Any problems noted shall be reported to the local health department, Infiltrator Systems, Inc, and the Environmental Health Section, On-Site Water Protection Branch. Repairs made shall be consistent with the recommendations of Infiltrator Systems, Inc, and the Environmental Health Section, On-Site Water Protection Branch.