

NORTH CAROLINA 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: Roth North America
PO Box 245
Syracuse, NY 13211

For: 1,060, 1,250, and 1,500 Gallon Polyethylene Septic Tanks and 1,000, 1,337, 1,469, and 1,771 Gallon Polyethylene Pump Tanks

Date: March 24, 2026

I. Material

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

- A. CSA B66-21;
- B. IAPMO Guide Criteria 262-2010 Corrugated Thermoplastic Tank; or
- C. IAPMO/ANSI Z1000-2019 Prefabricated Septic Tanks.

The Roth tanks are polyethylene tanks.

II. Design Criteria

- A. Nominal wall thickness: 0.25-inch, minimum
- B. Tank dimensions as shown on the plans

Tank Size	1,000 gallons (PT)	1,060 gallons (ST) 1,337gallons (PT)	1,250 gallons (ST) 1,469 gallons (PT)	1,500 gallons (ST) 1,771 gallons (PT)
	RMT-1000E	RMT-1060	RMT-1250	RMT-1500
Approval Number	PT-2039	STB-2037 PT-2040	STB-2038 PT-2041	STB-2039 PT-2042
Length (outside)	103 inches	133 inches	148 inches	177 inches
Width (outside)	62 inches	62 inches	62 inches	62 inches
Height (outside)	51 inches	51 inches	51 inches	51 inches

III. Tank Sizing

Based on the criteria established in 15A NCAC 18E .0801 and .0802.

IV. Risers

Approved risers for use with Roth tanks are STAR (Septic Tank Access Riser) 24-inch risers, manufactured by Roth.

The septic tank riser will have a bottom ledge with an 18 inch plug in it. The plug will be attached with stainless steel screws to the bottom ledge. The lid will be secured to the riser with stainless steel screws.

The pump tank riser lid will be secured to the riser with stainless steel screws and a deadbolt lock installed in a hole drilled through the lid and riser lip.

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 shall not be installed in areas with saturated soil conditions or indication of a seasonal high-water table, in accordance with 15A NCAC 18E .0504, between the ground surface and the bottom of the proposed tank installation excavation.
- B. Tanks shall not be installed in areas that are to be subject to vehicular loading of any kind.
- C. Tanks shall not be installed in areas that may be subject to exposure to open flame or heat in excess of 180 degrees, Fahrenheit.
- 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 six inches below the finished grade. Maximum burial depth is 36 inches below grade. The riser over the pump (outlet end) must be six inches above finished grade.
- G. Other siting criteria as specified in 15A NCAC 18E and minimum setback distances, as specified in 15A NCAC 18E .0601, shall be met.

VII. Installation and Testing Procedures

- A. Manufacturer's installation instructions for Roth North America tanks shall be adhered to, except as required herein or by 15A NCAC 18E. If there are contradictions between the installation instructions and 15A NCAC 18E, 15A NCAC 18E governs.
- B. Tanks shall be distributed through a network of dealers/distributors authorized by Roth Global Plastics after all personnel involved in the sale of the septic tanks have completed Roth Global Plastics authorized product training. Authorized dealers may only sell tanks to authorized installers in accordance with Roth North America requirements.
- C. Tanks shall be installed by an installer who has been authorized in writing by Roth North America in accordance with Roth North America requirements.

VIII. Operation, maintenance and monitoring requirements

- A. System management entity, inspection/maintenance and reporting frequency requirements shall be in accordance with 15A NCAC 18E .1301, Table XXXII.
- B. Operation, maintenance, and monitoring requirements shall be in accordance with the manufacturer's installation instructions, except as required herein or by 15A NCAC 18E.
- C. The operator in responsible charge, 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 signs of infiltration, leakage, and structural failure. Any problems noted shall be reported to the local health department, Roth North America, and the On-Site Water Protection Branch. Repairs made shall be consistent with the recommendations of Roth North America and the On-Site Water Protection Branch.

