

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT,  
HEALTH AND NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL HEALTH  
ON-SITE WASTEWATER SECTION

**SEPTIC TANK RISER ASSEMBLIES CONDITIONAL APPROVAL**

**SEPTIC TANK RISER ASSEMBLIES CONDITIONAL APPROVAL: SR-12**

**ISSUED TO:** John Christensen, Engineer  
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**FOR:** ZEUS™ Septic Tank Access Systems  
26" Risers and Lids Models RB-R- 26x6, RB-R-26x12, RB-L-26  
22" Risers and Lids Models RB-R- 22x6, RB-R-22x12, RB-L-22

**DATE:** October 18, 1999

In accordance with North Carolina General Statute 130A-335, 130A-335.1, and 15A NCAC 18A .1954, an application by John Cristensen of Zabel Environmental Technology for approval of septic tank riser assemblies has been reviewed. These riser assemblies have been found to meet the minimum requirements established by statute and rule, when the following conditions for use, installation, operation and maintenance are met:

- I. Description:
  - a. Riser assemblies and associated accessories shall be designed and manufactured in accordance with plans, specifications and supporting documents provided by the manufacturer in their application for approval submitted to the On-Site Wastewater Section. The On-Site Wastewater Section shall be notified in writing of any new assemblies or modifications to the approved risers assemblies and accessories prior to use in septic tank systems.
  - b. Conditionally approved riser assemblies and other accessories shall meet the specifications outlined in Tables 1 and 2:

**Table 1. Conditionally Approved Risers Model Specifications  
(Zabel)<sup>TM</sup>**

Riser Models	Inside dia. (in.)	Wall thickness (in.)	Description
RB-R-26x6	22.0"	Nom. 0.2 -0.25"	HDPE - 26" Diameter Stackable Riser, 6" tall section
RB-R-26x12	22.0"	Nom. 0.2 -0.25"	HDPE - 26" Diameter Stackable Riser, 12" tall section
RB-R-22x6	18.0"	Nom. 0.2 -0.25"	HDPE - 22" Diameter Stackable Riser, 6" tall section
RB-R-22x12	18.0"	Nom. 0.2 -0.25"	HDPE - 22" Diameter Stackable Riser, 12" tall section

**Table 2. Conditionally Approved Riser Lid Model Specification**

Lid Models	Outside dia. (in)	Wall thickness (in.)	Description
RB-L-26	26"	Nom. 0.2 -0.25"	Lid with interlocking mechanism and tamper-resistant screws
RB-L-22	22"	Nom. 0.2 -0.25"	Lid with interlocking mechanism and tamper-resistant screws

II. Use:

A septic tank manufacturer may propose to use one or more of these conditionally approved riser assemblies in one or more of their septic tanks. The septic tank manufacturer must notify the On-Site Wastewater Section in accordance with Rule .1953 of the tanks in which they propose to utilize any of these conditionally approved risers, showing any modifications to the approved tank plans which may be necessary to utilize the proposed risers.

III. Installation:

- A. The riser assemblies shall be assembled and installed in accordance with the manufacturer's specifications, applicable rules and approval conditions.
- B. For new installations, the Zabel riser assemblies shall be cast into the tank.
- C. Riser retrofit installations may also be approved by the local health department on a case-by-case basis when used with an existing septic tank. Risers shall be attached in a structurally sound, watertight fashion in accordance with the riser manufacturer's specifications.
- D. Riser sections, riser and lid must be sealed together with preformed 3/4"x 3/8" closed cell neoprene or equivalent provided by the riser manufacturer.
- E. The riser lid must be equipped with turn-and-lock mechanism and provided with at least four tamper-resistant stainless steel screws.
- F. In addition to the proposed tamper-resistant stainless steel fasteners provided by the riser manufacturer and the lockable lid mechanism, the septic tank manufacturer should

provide other mechanisms to prevent accidental entry to the tank when using these riser assemblies.

- G. These riser assemblies must not be installed in areas subjected to vehicular traffic, or where the tank shall be buried more than three feet below finished grade.

IV. Literature:

The riser assembly manufacturer shall furnish with each riser assembly (and/or with associated riser assembly components) all pertinent installation and maintenance details.

V. Maintaining approval status:

The approval status is governed by Rule .1954(e).

Approved by: \_\_\_\_\_ ICD \_\_\_\_\_ Date: \_\_\_\_\_ 10/18/99 \_\_\_\_\_