

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

**PIPE PENETRATION SEAL CONDITIONAL APPROVAL**

**SEPTIC TANK PIPE PENETRATION SEAL CONDITIONAL APPROVAL: PS-12R**

**ISSUED TO:** Mr. Thomas Karvasale  
Director Marketing & Technical  
A-LOK Products, Inc.  
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**FOR:** Pipe penetration seal Models "Z-Lok" and "A-Lok" flexible connectors

**DATE:** January 7, 1999

In accordance with North Carolina General Statute 130A-335, 130A-335.1, and 15A NCAC 18A .1954, an application by Thomas Karvasale of A-LOK Products, Inc. for approval of septic tank pipe penetration seals has been reviewed. This penetration seals "Z-Lok" and "A-Lok" flexible connectors have been found to meet the requirements established by statute and rule when properly incorporated into the design of premanufactured septic tanks, when the following conditions for use, installation, operation and maintenance are met:

**I. Description:**

"Z-Lok" and "A-Lok" flexible connectors 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 or modifications to the approved seals prior to use in septic tank systems.

**II. Use:**

A septic tank manufacturer may propose to use "Z-Lok" and "A-Lok" flexible connector pipe penetration seals in one or more their septic tanks. "Z-Lok" flexible connectors are available in sizes designed to fit a four-inch or a three-inch outlet pipe. "A-Lok" flexible connectors are designed to fit a four-inch outlet pipe. 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 seals showing any modifications to the approved

tank plans which may be necessary to utilize the proposed seals.

III. Installation:

The seals must be cast in place for concrete septic tanks. "Z-Lok" flexible connectors require a stainless steel band provided by the seal manufacturer to secure the seal to the outlet pipe. For septic tanks made with other material such as Plastics a specific installation procedure and detail must be proposed by the Septic Tank Manufacturer.

IV. Maintaining conditional approval status:

The approval status is governed by Rule .1954(e). The approval status shall also be revised as part of the permanent rule making process for rules 15A NCAC 18A .1952 through .1954.

V. Applicability

This Conditional Approval supersedes previous approval PS-12.

Approved by:\_\_\_\_ Signed by Ishwar C.. Devkota\_\_\_\_\_

Date:\_\_\_\_\_January 7, 1999\_\_\_\_\_