

November 24, 2010

Re: Testing of Polylok's Boot **P/N 3006-OE**

To Whom It May Concern:

This report documents the results of the testing performed on the **Poly II OE 2" Open End Boot seal**, on November 19, 2010, at the Polymold Laboratory in Wallingford, CT. The testing was witnessed and verified by Stonel Associates, Inc.

The testing was performed, in strict accordance to **ASTM C 1644- 06**, *Standard Specification for Resilient Connectors Between Reinforced Concrete On-Site Wastewater Tanks and Pipes*.

The **Poly II OE Boot** pipe seal was tested using one 2-inch diameter **Schedule 40 pipe**.

The **Poly II CE Boot** was molded from EPDM rubber and meets or exceeds all the requirements and specifications detailed in Sections 4 and 7 of **ASTM C 1644-06**. For testing, it was cast, using 3,000 psi concrete, into a 3"x 9"x 9" specimen block that became part of a custom pressure vessel testing unit. The testing unit contained an instrument that accurately measures both hydrostatic infiltration and exfiltration pressures.

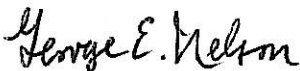
The pipe was placed in the custom testing unit and inserted into the **Poly II OE Boot pipe seal**. The pipe seal was then securely clamped to the pipe. The pipe, while in an alignment position 90° from the testing unit, had the pipe seal tested using an infiltration and exfiltration pressure of 5 psi, taken at the centerline of the pipe's height, for a period of 5 minutes in each condition. The pipe was then axially deflected at least seven degrees and again the boot pipe seal was subjected to an infiltration and exfiltration test pressure of 5 psi for a period of 5 minutes in each condition.

To further test the pipe seal, in accordance with the requirements as detailed in **Section 7.3.3 of ASTM C 1644-06**, a shear load of 100 pounds was placed on the pipe when in a straight position as well as when in the axially deflected position. After each application of the shear load, the pipe seal was subjected to infiltration and exfiltration testing of 5 psi for a period of 5 minutes for each condition.

I can attest that throughout all of the above testing, there was absolutely no leaking and no indication of any sign of moisture.

Should you have any questions regarding this testing, please do not hesitate to contact my office.

Sincerely,



George E. Nelson  
President

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Re: Testing of Polylok's Boot **P/N 3006-OE**

To Whom It May Concern:

This report documents the results of the testing performed on the **Poly II OE 2" Open End Boot seal**, on November 19, 2010, at the Polymold Laboratory in Wallingford, CT. The testing was witnessed and verified by Stonel Associates, Inc.

The testing was performed, in strict accordance to **ASTM C 923- 08**, *Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structure, Pipes, and Laterals*.

The **Poly II OE Boot** pipe seal was tested using one 2-inch diameter **Schedule 40 pipe**.

The **Poly II OE Boot pipe seal** was molded from EPDM rubber and meets or exceeds all the requirements and specifications detailed in Sections 4 and 7 of **ASTM C 923-08**. For testing, it was cast, using 3,000 psi concrete, into a 3"x 9"x 9" specimen block that became part of a custom pressure vessel testing unit. The testing unit contained an instrument that accurately measures hydrostatic pressure.

Each pipe was placed in the custom testing unit and inserted into the **Poly II OE Boot pipe seal**. The pipe seal was then securely clamped to the pipe. To test the integrity of the pipe seal, each pipe, while in a straight position, was subjected to a hydrostatic pressure of 13 psi for a period of over 10 minutes. After the straight position test each pipe was then axially deflected at least seven degrees and subjected to a hydrostatic pressure of 10 psi for a period of over 10 minutes.

To further test the pipe seal, in accordance with the requirements as detailed in **Section 7.2.3 of ASTM C 923-08**, a shear load of 300 pounds was placed on the straight pipe and also when it was axially deflected. After each application of the shear load the pipe seal was subjected to a hydrostatic pressure of 10 psi for a period of 10 minutes.

I can attest that throughout all of the above testing, there was absolutely no leaking and no indication of any sign of moisture.

Should you have any questions regarding this testing, please do not hesitate to contact my office.

Sincerely,



George E. Nelson  
President