

Subject: BOA Tape Test Report

Objective: Hydrostatic pressure qualification of Boa-Tape[™] Sealing System to 13 psig as specified by ASTM C877-08, "Standard Specification for External Sealing Bands for Concrete Pipe, Manholes, and Precast Box Sections."

Test Equipment:

- 1) 6" pipe ends with a .063" gap between the ends (See Figures 1 and 2)
- 2) Vacuum pump
- 3) Vacuum/pressure gage
- 4) Boa-TapeTM 6" wide

Procedure: Boa-Tape applied to the fixture with 2" of overlap and smoothed with a heavy steel shaft. A vacuum of 15 inches of mercury (7.4psig) was applied to the inside of the fixture to ensure the tape was sealing well. After a period of two minutes of leak free performance (no drop in vacuum) the vacuum was increased to 26 inches of mercury (approx. 13 psi). The pressure was held for over 6 hours with no drop in vacuum. See Figure 3, tape wrapped around the test fixture and Figure 4 of the gauge after 6 hours at the 13 psi vacuum level.

Conclusion: This test indicates that Boa-Tape[™] should seal a concrete joint of good surface quality, free of deep pores or rough surfaces at an outside (OD) pressure of 13 psi.

Dan Naugle – Engineering Manager, Garlock Sealing Technologies 3/29/12









Figure 1: BOA tape fixture







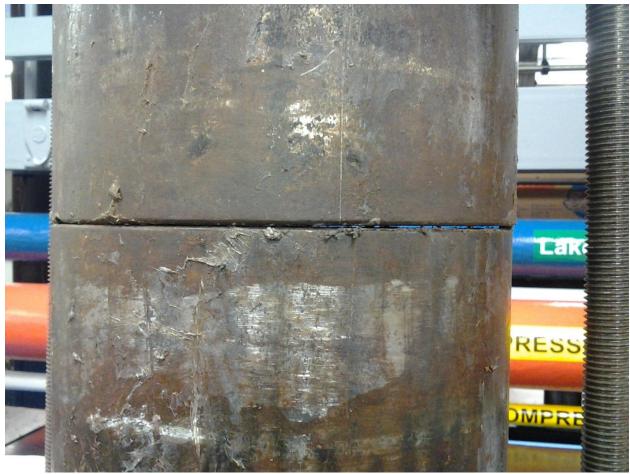


Figure 2: Test fixture gap









Figure 3: Fixture with tape applied









Figure 4: Vacuum pump gauge

