



July 13, 1999

Project 99-272-10

Mr. Michael R. Miller Press-Seal Gasket Corporation P.O. Box 10482 Fort Wayne, Indiana 46852 1400 Airport North Office Park Suite A Fort Wayne, IN 46825-6715 219/489-2900 FAX 219/489-4159

Report for
Resilient Connector Certification
CAST-A-SEAL Part 452.0450
Press-Seal Gasket Corporation
Fort Wayne, Indiana

Dear Mr. Miller:

GAI Consultants, Inc. (GAI) presents this report to Press-Seal Gasket Corporation (Press-Seal) in followup of my observations and the related information provided on and subsequent to the certification tests conducted on May 28, 1999. The tests were performed on a seal (CAST-A-SEAL flexible connector) manufactured by Press-Seal in the 6935 Lincoln Parkway, Fort Wayne, Indiana facility for conformance with ASTM C923 - 96, Section 7 and with reported conditions for similar acceptance in Canada.

The objective of the test was to demonstrate that the connector would provide a flexible joint connection between a section of 4-inch Schedule 40 PVC pipe and a concrete structure, with the connector installed in general accordance with ASTM C923 - 96, Section 7.1, under the conditions prescribed in ASTM C923 - 96, Section 7.2, and exhibit no leakage as defined in ASTM C923 - 96 sections 7.3 and 7.4.

The seal was also to be tested under the conditions prescribed in ASTM C923 - 96, Section 7.2.1 at a sustained hydrostatic pressure of 13 psi for 10 minutes (the reported Canadian standard).

The seal was randomly selected from those recently manufactured by Press-Seal. The structure in which the seal was integral-cast was a concrete rectangular, wet cast, straight wall catch basin with six (6) inch walls and with exterior dimensions of 3x4x3 (LxWxH) feet. The pipe was a section of 4-inch schedule 40 PVC pipe. The seal was fastened to the pipe with a stainless steel hose clamp provided with the gasket.

TEST SUMMARY TABLE

Test Condition	Test Duration	Test Pressure	Result
Pipe in straight alignment	10 minutes	10 psi	Pass
Pipe deflected 7 degrees	10 minutes	10 psi	Pass
Pipe shear-loaded with 150 lbs/inch pipe diameter	10 minutes	10 psi	Pass
Pipe in straight alignment	10 minutes	13 psi	Pass

In summary, the CAST-A-SEAL Part 452.0450, tested under the prescribed conditions, exhibited no leakage.

The pressure gauge used was a calibrated Ashcroft Duralife, model 250-2990, range 0 - 30 psi, mounted in the top of the structure, approximately 14 inches above the centerline of the pipe. A Malco torpedo level with a cardboard triangle cut to a 7 degree angle were used for the axial deflection test. The calibrated scale used to determine the lateral load weight (618 pounds) was a Kalamazoo packaging Systems, Inc., Model 2000SA, Serial Number 961005.

Sincerely,

GAI Consultants, Inc.

Robert L. Henricks, P.E.

Polet Skennely

Project Manager



