

## INSPECTION REPORT

Mr. Paul Keblish  
 CWR Holdings, LLC  
 1615 Cross Highway  
 Fairfield, CT 06824

Report #: 1  
 PO #: 090103  
 Lab #: 091915  
 Date Received: 12/04/09  
 Date Tested: 12/07/09

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Date: December 7, 2009

Work Order: G5368

On December 4, 2009, Non-Destructive Testing Services, Inc.'s Physical Testing Department received a Lifespan System® for proof load testing.

The Lifespan System® is a high performance "structural rubber" manhole frame and grade adjustment system integrated with a locking cast iron cover. The Lifespan System® received for testing consists of one (1) Lifespan manhole frame, two (2) Lifespan tapered grade adjustment rings and one (1) cast iron cover with cam locks.

We were requested to perform compression proof load testing to verify AASHTO H-20/HS-20, as tested in accordance with AASHTO M306 (Standard Specification for Drainage, Sewer, Utility, and Related Castings), which requires a 40,000 pound proof load concentrated on a 9" x 9" square area and held for one minute without experiencing any cracks or permanent deformation.


The following test sequence was requested and completed for the Lifespan System® that was received. In each case, two tapered grade adjustment rings were used and the cover was secured to the frame with the cam bolts.

1. 40,000 lbs. with cam locks – hold time one (1) minute
2. 40,000 lbs. with cam locks – hold time one (1) minute

Following are the results.

Load Sequence	Loading Area – inch x inch	Hold Time – min.	Load – lbs.	Comments
1 w/cam lock	9" x 9"	1	40,000	No cracks, permanent deformation or visible damage
1 w/cam lock	9" x 9"	1	40,000	No cracks, permanent deformation or visible damage

Respectfully submitted,



Scott Robertson  
 Mechanical Laboratory Supervisor  
 Non-Destructive Testing Services, Inc.

Testing was performed in accordance with accepted industry practice as well as the test methods referenced. Non-Destructive Testing Services, Inc. has no direct knowledge of the origin, sampling procedure, nor condition of the samples, and makes no claims as to the suitability nor final use of the material. This test report applies only to those items tested. This report shall not be reproduced except in full without the written consent of Non-Destructive Testing Services, Inc.