



Foundation Technologies, Inc.  
PO Box 491718  
Lawrenceville, GA 30049  
Toll-Free: 800-773-2368  
Local Phone: 678-407-4640 Fax: 678-407-4645  
info@foundationtechnologies.com

**Foundation  
Technologies, Inc.®**

## INTRODUCTION

HJ3 conducted testing to demonstrate the performance of its carbon fiber composite system when applied to an actual damaged pipe section which has been removed from service due to corrosion.

The pipe section had 20% to 100% wall thickness lost. There were areas with multiple holes and one large hole approximately 2 inches by 4 inches.

To conduct the test, two flanges were welded to the ends of a 24 inch diameter damaged pipe section and end caps were bolted in place. One of the caps contained both a fill valve and pressure gauge.



## PROCEDURE

Three layers of the HJ3 Carbon Composite System were applied to the exterior of the pipe section.

Once cured the test pipe section was suspended and attached to the hydraulic pressure pump.

Water was pumped into the 24" test pipe until reaching a pressure of 200 psi. The pressure was maintained at 200 psi for 48 consecutive hours.



## RESULTS

The HJ3 Carbon Fiber Composite System showed no signs of damage or leaking after the completion of the 48 hour test period.

The HJ3 Composite System has proven to be a highly effective repair on severely damaged pipe.

