# LABORATORY TEST REPORT



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CLIENT	Proof Load Testing		CLIENT ORDER NO.
Proglass			JD4722
MATERIAL DESCRIPTION	PNL PROJECT NO.	SERVICE ORDER NO	PNL LAB NO.
37" x 60" Trench Cover	26-209037	005	ML808745
MATERIAL SUBMITTED BY	DATE SUBMITTED		REPORT DATE
Proglass	07/01/2009		07/02/2009
SPECIFICATION	QUALITY REQUIREMENTS	PART NO.	#TESTED IN LOT
AASHTO M306-7	40,000 Proof Load	HT 6037	1
	TEST SAMPLE DESC	RIPTION	TO THE OWNER OF THE PARTY OF TH

Foam filled (FRP) stiffeners running across the 37" direction, extra layer of fiberglass over stiffener

### TEST PROCEDURE/DESCRIPTION

The Trench Cover and test frame was set up in the universal press. A 9 in. X 9 in. pad and steel plates were placed on the center of the trench cover. Potentiometers were used to measure displacement on opposite sides of the 9 in. X 9 in. loading area (See Photographs below). Once the test setup was complete, data acquisition was started and the vertical load was applied to the 9 in. X 9 in. area at the center of the cover (See Photographs below). Time, displacement, and load were recorded during the test.

Following client instruction, the cover was loaded to 16,000 lbs and held for 2 minutes then load was increased by 5000 lb increments to a final load of 40,000 lbs. The load was held for a few seconds at each increment to observe any sounds of cracking or other indications of failure. The load at 40,000 lbs was held for a minimum of 3 minutes. The load was removed and the trench cover was removed from the test apparatus.

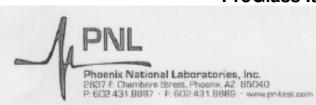
TEST RESULTS							
SPECIMEN NO.	TEST LOAD (lbs)	DURATION (min)	MAX LOAD (lbs)	OBSERVATIONS	REQUIREMENT	RESULTS	
1	40000	3.	47316	No visible failures were found during or after lest.	No cracks. No permanent deformation exceeding 1/8 in.	PASS	

REMARKS:

29365
ALEXANDER
ZURAN III.
Expires 09/30/2010

PNL wurrants that the above services and report were performed under the appropriets standard of cere, including the skill and judge-ment that to reasonably expected from similarly situated technical personnel. No other warranty, guaranty, or representation, other expressed or implied is included or intended.

REVIEWED BY	Alm	Zwan

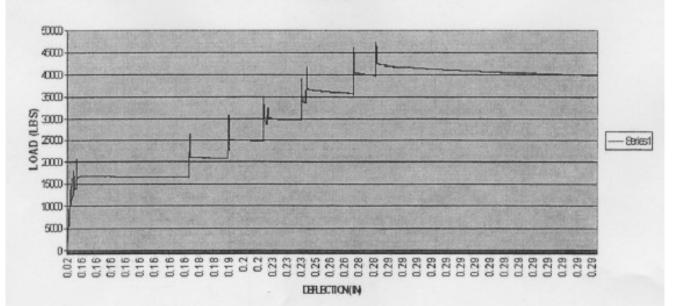


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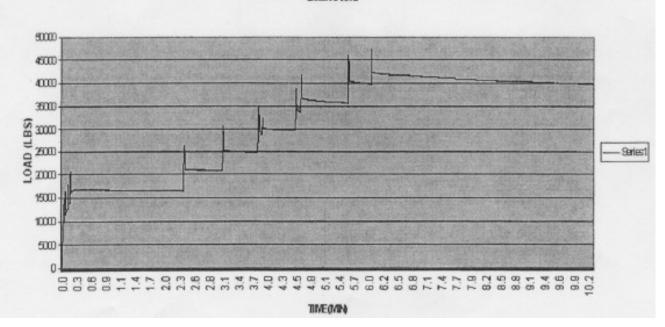
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ATT	00 000000	000	*** *****	

### Load vs Diffection



#### LoadysTime



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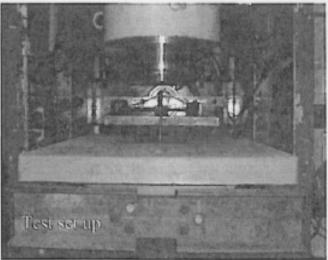
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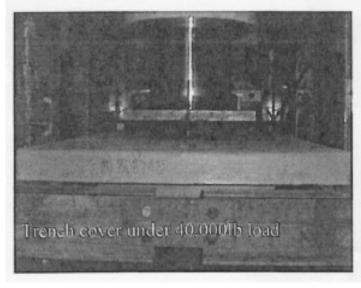
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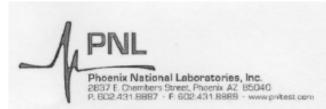
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## PHOTOGRAPHS:









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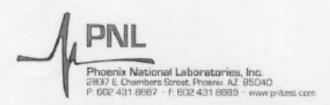
## PHOTOGRAPHS:



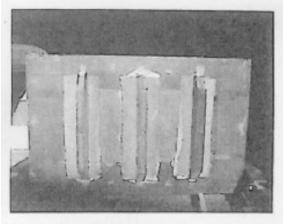




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Original design: Stiffener material not continuous across part



Latest version: stiffener material is continuous across part

