

ProGlass HT Series



Metcut Research Inc.

PROGLASS, INC WAUNA, WA

Date:09/28/2009

Project: 4453-88857-3

Authorization: J04868

Materials & Structures Fatigue Laboratory

Procedure: 500.7 _____

Proof Load Testing - Fiberglass Trench Covers

All testing is conducted in accordance with the specifications referenced below.
Exceptions to the specifications, if any, are noted in the report.

Material Identity: Proglass Deck Plate

Testing Specification: AASHTO M-306 Section 5.1

Specimen Drawing No.: —

Machining Finish: —

TEST CONDITIONS:

Test Control Mode: Axial Load Control

Test Temperature: 75°F

Dynamic Ratio: —

Test Loading Rate: 5000 lbf/min

Test Station Axis 1: 60303 _____

Load Capacity(lbf): 50000 _____

Test Station Axis 2: _____

Load Capacity(lbf): _____

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The results presented in this report relate only to the items tested.

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Test Procedure

The concentrated bend loading of your supplied Trench Covers in accordance with AASHTO M-306 section 5.1 was conducted as follows.

The Trench covers were assembled to our test bed, set upon S8 I-beams for end support as depicted in Figure I. The load was applied on the top center face through a 9" square loading ram. Deflection was monitored by a LVDT mounted in line with the loading axis. Each of the Trench Covers were loaded at a rate of 5000 lbf / minute to 40,000 lbf, held for 1 minute then the load was released. Cover HT-6049 was additionally loaded to 50,000 lbf. The peak deflection and permanent deflection is listed in Table I for each cover.

The trench covers were disposed of by Metcut after testing.

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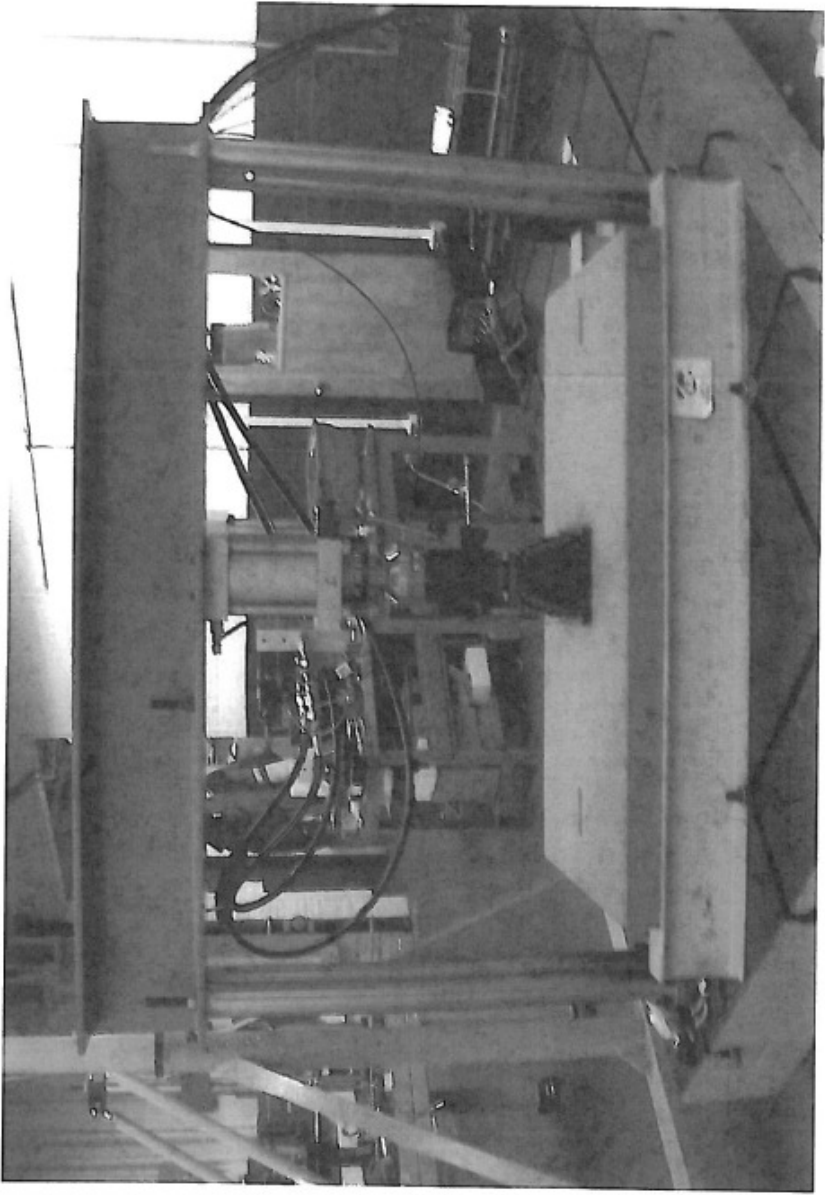


Figure 1
Test Assembly

88857 Test Report 2.xls