



Farabaugh Engineering and Testing Inc.

Project No. T363-12B
Report Date: December 3, 2012
No. Pages: 8 (inclusive)

TEST REPORT:

Load Testing of One (1) Style Elcoma Metal Fabricating
Model #60/#61 Series Folding shower seat

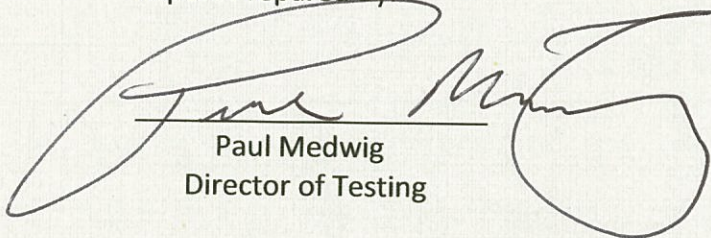
REPORT TO:

Elcoma Metal Fabricating
521 Lawrence Rd. N.E.
Canton, OH 44704

ATTENTION:

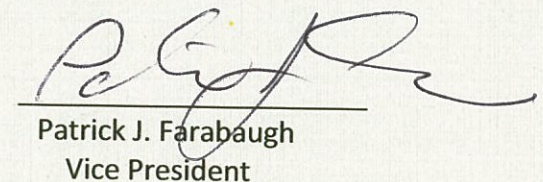
Mr. Charles Robertson

Report Prepared By:

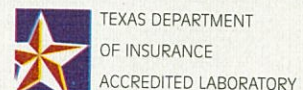


Paul Medwig
Director of Testing

Reviewed and Approved By:



Patrick J. Farabaugh
Vice President



SCOPE OF SERVICES

General

On October 26, 2012, Farabaugh Engineering and Testing Inc. (FET) received one (1) shower seat, identified below; from Elcoma Metal Fabricating for the purpose of load testing. Testing was performed November 27, 2012.

Sample Identification

Elcoma Metal Fabricating, Folding Shower Seat model No. 60-PA-3201
(See attached Appendix I Specification Sheet).

Test Equipment Used

Rice Lake, 0-20,000 LB. Zee Load cell, S/N #A71197
Scale Systems, Digital Readout, S/N #543982
Westward, 24" Digital Calipers, S/N #00289
Fowler, Micrometers, S/N #52-222-001
25' Tape, S/N #FETCTP1

Test Procedure

The Shower seat was installed on a test frame (See attached photos pg.3) and anchored on both ends through 0.250" metal using three (3) ¼" X 1 ¼" stainless steel bolts (See attached photos pg.5). A 15" wide X 15" wide X ½" thick plate was then placed on the center of the seat (See attached photo pg. 5). A hydraulic jack and a load cell were then used to apply the loads, and also to monitor the loads applied (see attached photos pg.3). A load was then applied in 100 Lb. increments until 1,000 Lbs was achieved and then held for a period of ½ hour. The Load was the increased in 100 Lb increments until failure occurred.

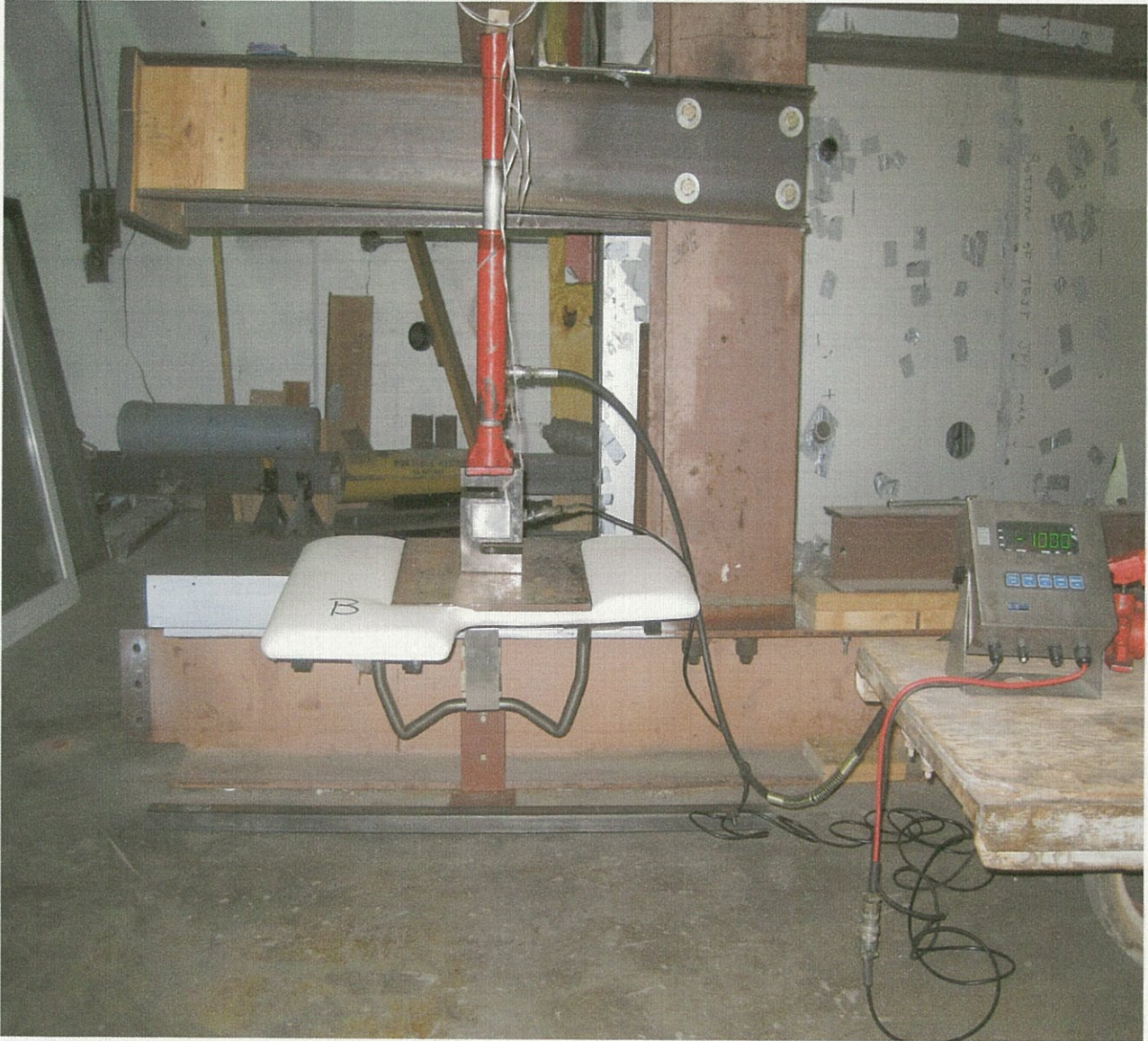
Results

LOADS APPLIED: 1,000Lbs., Held for 30 minutes.

1,100Lbs., Wall Brackets started to bend cylindrical seat support tube
Buckled.(See attached photos pg. 6).



TEST SET-UP



APPLIED LOAD (1,000 lbs)



ANCHORING (1/4" X 1 1/4" Stainless steel bolts)



FAILURE POINT (1,110 Lbs.)

Appendix I Specification Sheet



60/61-1

Configuration 60, 61

Folding Shower Seats

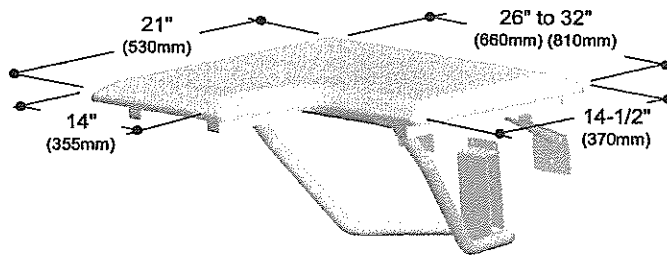
with Padded Surface

Architectural, Commercial,
 Institutional, Residential

PADDED SEAT

SPECIFICATION:

Folding shower seat manufactured by ELCOMA from 1" (25mm) diameter, 18 gauge and 1 1/4" (32mm) X 1 1/4" (32mm), 16 gauge, type 304 stainless steel tubing with #4 satin finish. Two wall mount brackets shall be 12 gauge type 304 stainless steel. The third support bracket shall be 18 gauge type 304 stainless steel. Padded vinyl cushion shall have 1 1/2" (38mm) high density, high resilience foam, covered with fire and mildew resistant, UV inhibited, marine grade naugahyde. Waterproof Seam Cushions shall have no external piping. Seat unit shall comply with all applicable federal and local building and safety codes.



Configuration #60 Shown

Custom sizes are available to suit special requirements.

26" X 21" (660 X 530 mm) seat	White	Model # 60-PA2601	(As Shown)
26" X 21" (660 X 530 mm) seat	Almond	Model # 60-PA2602	(As Shown)
28" X 21" (710 X 530 mm) seat	White	Model # 60-PA2801	(As Shown)
28" X 21" (710 X 530 mm) seat	Almond	Model # 60-PA2802	(As Shown)
30" X 21" (760 X 530 mm) seat	White	Model # 60-PA3001	(As Shown)
30" X 21" (760 X 530 mm) seat	Almond	Model # 60-PA3002	(As Shown)
32" X 21" (810 X 530 mm) seat	White	Model # 60-PA3201	(As Shown)
32" X 21" (810 X 530 mm) seat	Almond	Model # 60-PA3202	(As Shown)

For opposite orientation substitute Model # 60 with Model # 61

Elcoma Shower Seats have been designed and tested to withstand 400lbs. (182kg) * of load capacity when properly installed. This exceeds HUD, FHA, VA, ADA, ANSI, and other federal and local codes. *



Specification questions ? Contact ELCOMA @ Ph: 800-352-6625 Fax: 800-625-5560 Email: orderdesk@elcoma.com
www.elcoma.com