



Quality Accuracy Assurance

Fenestration Testing Laboratory, Inc.

8148 N.W. 74th Avenue Medley, FL 33166 Phone: (305) 885-3328 Fax: (305) 885-3329 (888) 819-7877

e-mail: clientservices@fenlab.com www.ftl-inc.com

June 15, 2013

Petersen Aluminum Corporation
102 Northpoint Parkway, Bldg. 106
Acworth, GA 30102

Dear Mr. Delfino,

Thank you for providing Fenestration Testing Laboratory with the opportunity to be of service to you. It is my sincere hope that you are completely satisfied with the service which was provided to you and will avail yourself of our expertise again in the future.

We are always interested in suggestions that would allow us to improve upon our already high standards and encourage you to submit your thoughts.

Thank you for your confidence in our ability to serve you. We welcome the opportunity to assist you in your business and look forward to a continuing relationship which will be profitable to all concerned.

Our staff is always available to assist you. Should the need arise, please give us a call at (305) 885-3328 and ask for client services.

Sincerely,

Fenestration Testing Laboratory, Inc.

Leigh B. Sanchez



Petersen Aluminum Corporation

Series: PAC-150 Roof System

Client Package

Fenestration Testing Laboratory
8148 N.W. 74th Avenue
Medley, Florida 33166
Phone: (305) 885-3328
Fax: (305) 885-3329
Toll: (888) 819-7877

Remote Offices:
Tampa, FL (813) 200-5886

Schaumburg, Illinois (312) 253-7203
Pensacola, FL (850) 454-1734

Las Vegas, NV (702) 922-7142
Houston, TX (281) 763-0401

Test Report and Drawings



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Cert No. 13-0306.01
Report Date: 6/11/2013
Completion Date: 6/7/2013
Expiration Date: 6/7/2023
Auth. No: FTL-13035
File Number: 13-852
Lab Number: 7412
Project Number: 13-4450

OFFICIAL TEST REPORT

Manufacture: Petersen Aluminum Corporation **Specifications:** Florida Building Code
TAS 100-95, ASTM E8-11
Address: 102 Northpoint Parkway, Bldg. 106 **Project:** Miami Dade County
Acworth, GA 30102

DESCRIPTION OF SAMPLE	
Model Designation:	Series: PAC-150 Roof System
Roof Panels:	0.032" thick by 12" wide aluminum panels
Sample A-1	
Test Deck: Test deck was constructed by Fenestration Testing Laboratory to accommodate an 8' by 10' metal roof panel system. The deck consisted of APA 32/16 span rated sheathing of 15/32" thickness installed over 2" by 6" perimeter supports and 2" by 6" intermediate supports spaced 24" apart. One valley was constructed located at the front edge of the test desk. The sheathing was attached using 8d common nails at 6" on centers at panel edges and 12" on centers at intermediate supports. The test deck had a test slope of 2/12.	
Underlayment: The underlayment used on test deck consisted of a 30lb ASTM D226, type II anchor sheet. The anchor sheet was mechanically attached to the wood sheathing using 12 gauge roofing nails and 1 5/8" tin caps, in a 12" grid pattern staggered in two rolls in the field and 6" on center attachment at any laps.	
Roof System Installation: The prefabricated PAC-150 aluminum panels have a SingleLock (90°) seam and are installed over a test deck measuring 96" wide by 120" long. The panels are installed using a One-Piece 24 gauge steel clip spaced 12" on center and fastened to deck using two No. 10 by 1 1/2" sharp point pancake head screws. The valley flashing was installed to the test deck using a single row No. 10 by 1 1/2" sharp point pancake head screws spaced 12" on center. A gable flashing and bullnose eave was installed using a single row No. 10 by 1 1/2" sharp point pancake head screws spaced 12" on center.	
Method of Conditioning: The roof deck was conditioned for 3 days exposure to outside environment conditions. The roof deck temperature was verified each day with a thermocouple and was maintained above 135F for six hours each day.	
Additional Information: There were no sealants used in the seams for installation	

TAS 100-95 Results			
Interval #	Wind Speed (mph)	Time (min)	Results
1	35	15	No water penetration nor panel movement
2	0	10	No water penetration nor panel movement
3	70	15	No water penetration nor panel movement
4	0	10	No water penetration nor panel movement
5	90	15	No water penetration nor panel movement
6	0	10	No water penetration nor panel movement
7	110	5	No water penetration nor panel movement
8	0	10	No water penetration nor panel movement



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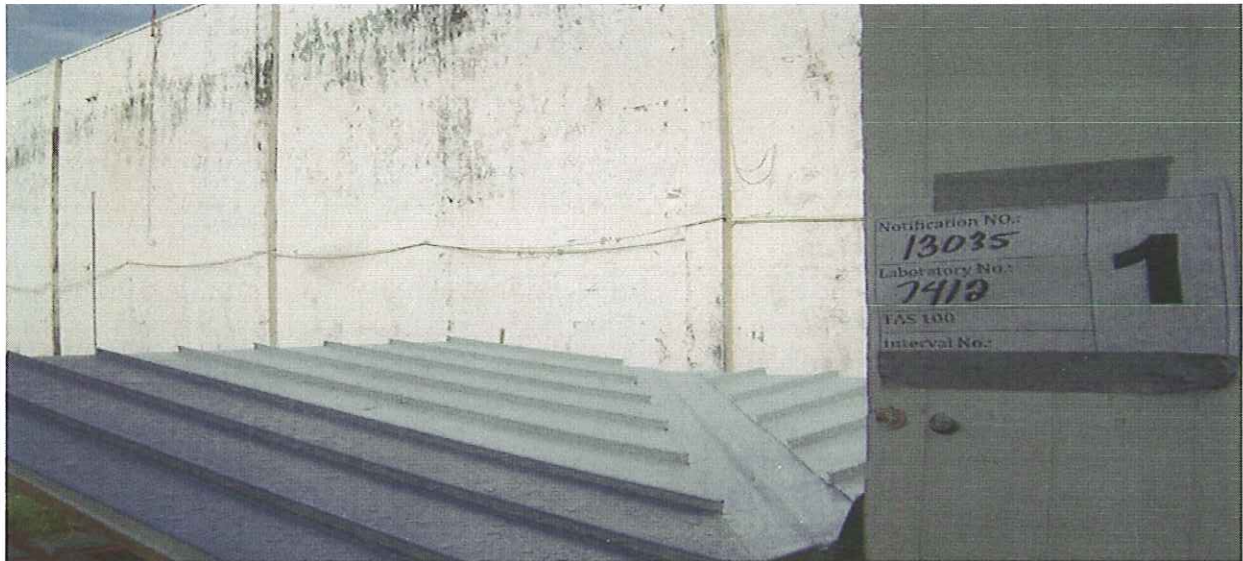
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OFFICIAL TEST REPORT

Immediately after commencement of interval 1 top side



Immediately after commencement of interval 1 bottom side





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30 seconds prior to completion of interval 1 top side



30 seconds prior to completion of interval 1 bottom side





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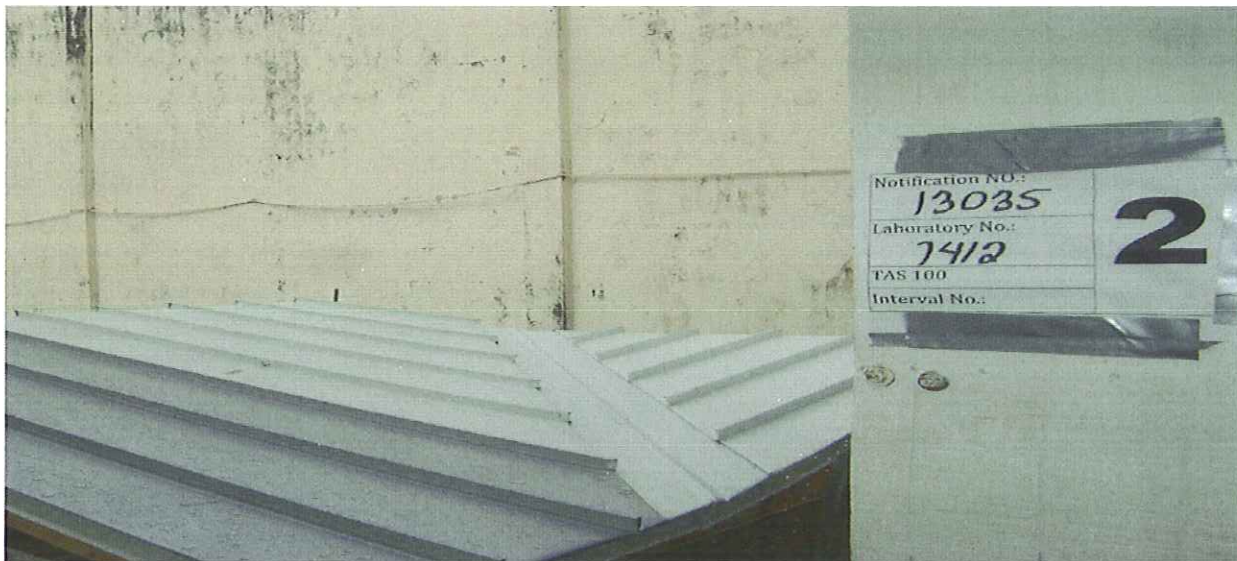
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Immediately after commencement of interval 2 top side



Immediately after commencement of interval 2 bottom side





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30 seconds prior to completion of interval 2 top side



30 seconds prior to completion of interval 2 bottom side





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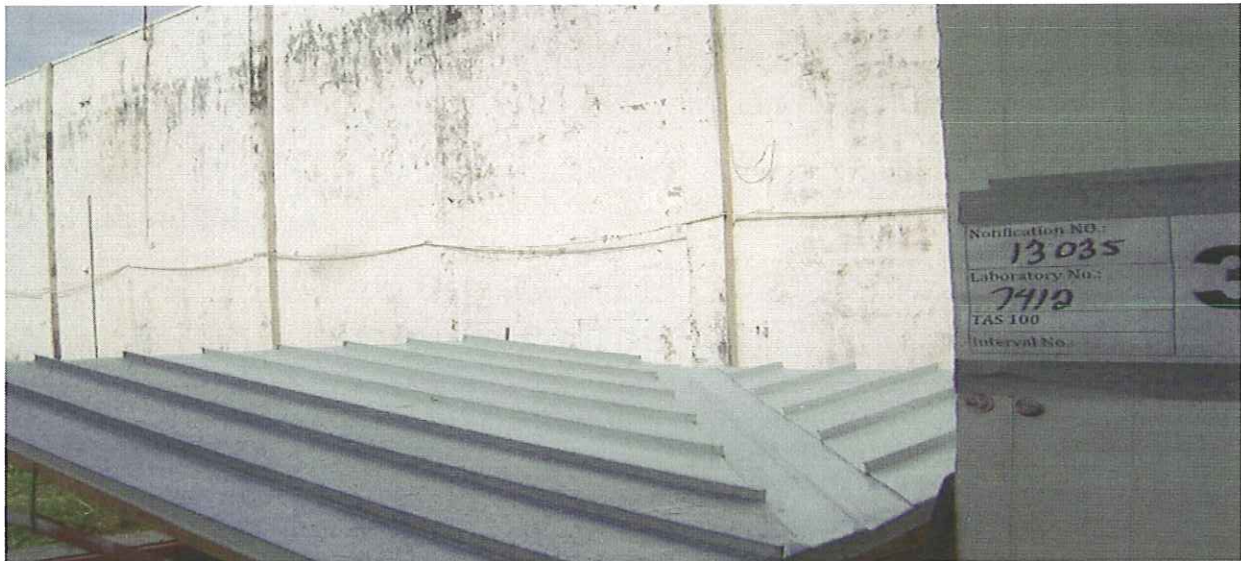
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OFFICIAL TEST REPORT

Immediately after commencement of interval 3 top side



Immediately after commencement of interval 3 bottom side





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30 seconds prior to completion of interval 3 top side



30 seconds prior to completion of interval 3 bottom side





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OFFICIAL TEST REPORT

Immediately after commencement of interval 4 top side



Immediately after commencement of interval 4 bottom side





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30 seconds prior to completion of interval 4 top side



30 seconds prior to completion of interval 4 bottom side





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OFFICIAL TEST REPORT

Immediately after commencement of interval 5 top side



Immediately after commencement of interval 5 bottom side





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30 seconds prior to completion of interval 5 top side



30 seconds prior to completion of interval 5 bottom side





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OFFICIAL TEST REPORT

Immediately after commencement of interval 6 top side



Immediately after commencement of interval 6 bottom side





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30 seconds prior to completion of interval 6 top side



30 seconds prior to completion of interval 6 bottom side





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OFFICIAL TEST REPORT

Immediately after commencement of interval 7 top side



Immediately after commencement of interval 7 bottom side





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30 seconds prior to completion of interval 7 top side



30 seconds prior to completion of interval 7 bottom side





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OFFICIAL TEST REPORT

Immediately after commencement of interval 8 top side



Immediately after commencement of interval 8 bottom side





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OFFICIAL TEST REPORT

30 seconds prior to completion of interval 8 top side



30 seconds prior to completion of interval 8 bottom side





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OFFICIAL TEST REPORT

Test Method Description: American Society for Testing and Materials (ASTM E8), These test methods cover the tension testing of metallic materials in any form at room temperature, specifically, the methods of determination of yield strengths, yield point elongation, tensile strength, elongation and reduction of area.

Tensile Test Report								
Material Designation:		Aluminum						
Specimen Type:		Flat Reduced Section						
Laboratory Comment:		Tested as per ASTM E 8-11						
Sample Number	Thickness (in.)	Width (in)	Area (sq.in.)	Ultimate Load (lbs.)	Yield Load (lbs.)	Ultimate Stress (psi)	Yield Stress (psi)	Elongation % in 2 in.
1	0.032"	0.500"	0.016"	438	386	27,350	24,152	6.85%
2	0.032"	0.500"	0.016"	436	382	27,256	23,884	6.35%
3	0.032"	0.500"	0.016"	426	338	26,594	21,120	6.50%



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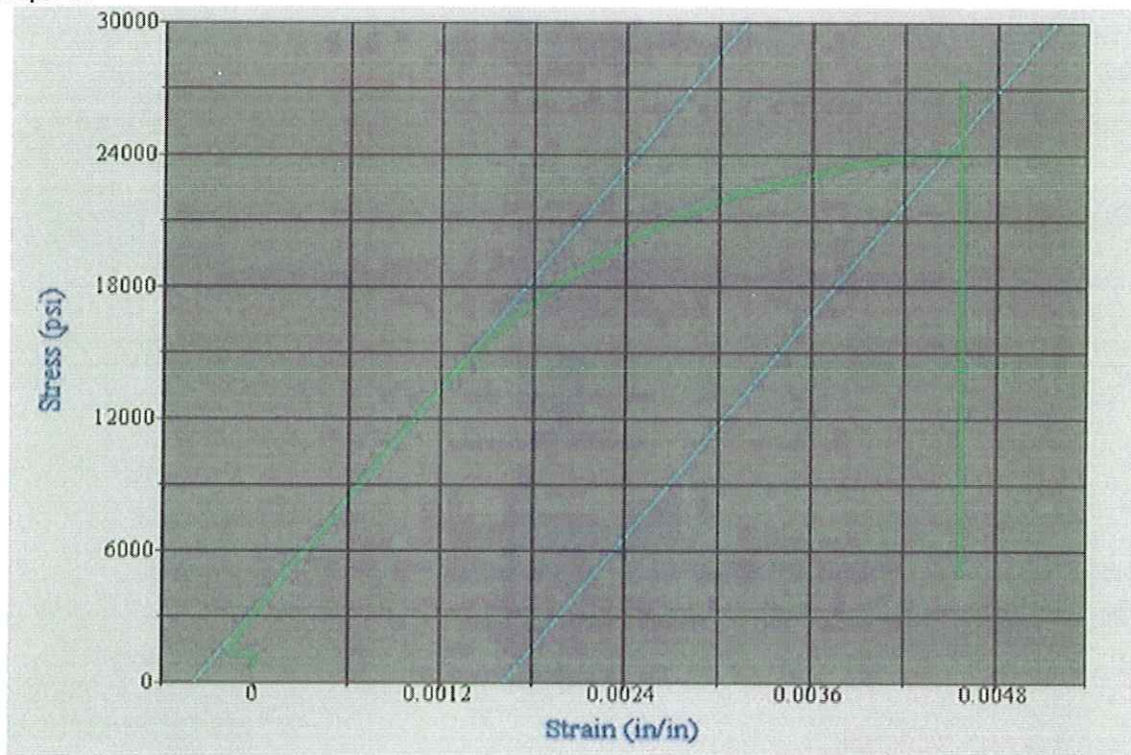
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OFFICIAL TEST REPORT

Sample 1:



Test Summary

Counter: 878
Elapsed Time: 00:01:19
Procedure Name: tensile with extensometer
Start Date: 6/12/2013
Start Time: 11:49:57 AM
End Date: 6/12/2013
End Time: 11:51:16 AM
Workstation: Fenestration Testing Lab
Tested By: Default
Material: Aluminum
Sample: 7412 A-1

Test Results

Width: 0.5000 in
Thickness: 0.0320 in
Area: 0.0160 in²
Young's Modulus: 8423264 psi
Ultimate Yield: 24152 psi
Total Elongation: 6.85 %
Pretest Punch Length: 2 in
Posttest Punch Length: 2.137 in
Ultimate Stress: 27350 psi
Ultimate Load: 438 lbf
Yield load: 386 lbf



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OFFICIAL TEST REPORT

Sample 1 continued:





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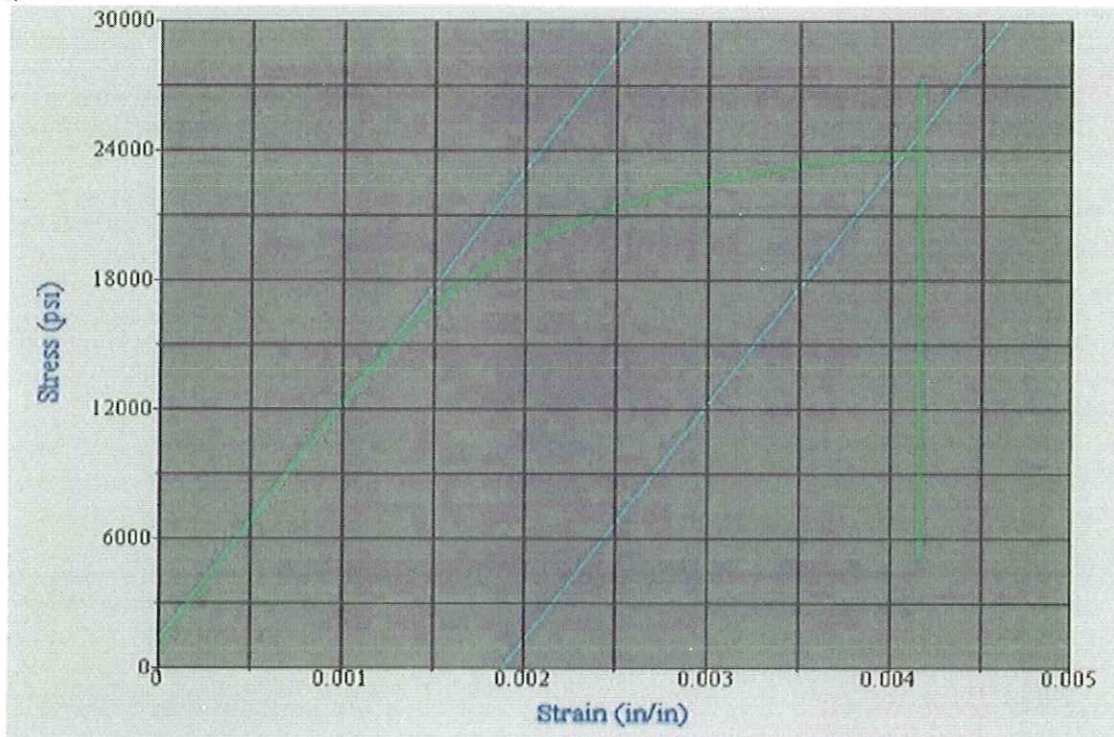
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OFFICIAL TEST REPORT

Sample 2:



Test Summary

Counter:	881
Elapsed Time:	00:01:16
Procedure Name:	tensile with extensometer
Start Date:	6/12/2013
Start Time:	11:59:27 AM
End Date:	6/12/2013
End Time:	12:00:43 PM
Workstation:	Fenestration Testing Lab
Tested By:	Default
Material:	Aluminum
Sample:	7412 A-2

Test Results

Width:	0.5000 in
Thickness:	0.0320 in
Area:	0.0160 in ²
Young's Modulus:	10890991 psi
Ultimate Yield:	23884 psi
Total Elongation:	6.35 %
Pretest Punch Length:	2 in
Posttest Punch Length:	2.127 in
Ultimate Stress:	27256 psi
Ultimate Load:	436 lbf
Yield load:	382 lbf



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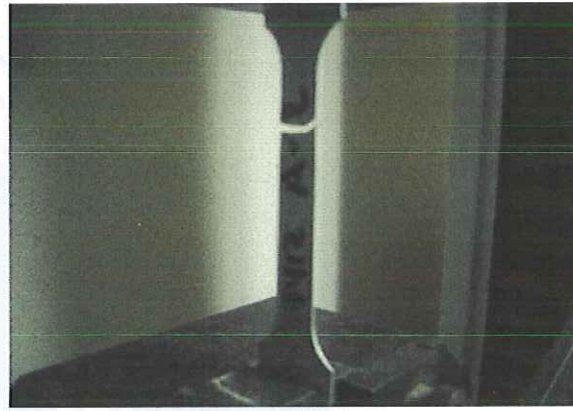
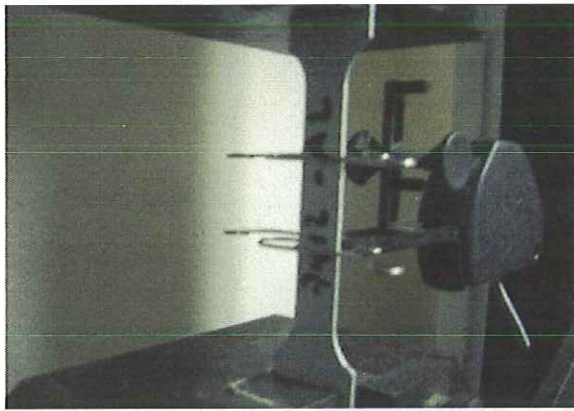
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Sample 2 continued:





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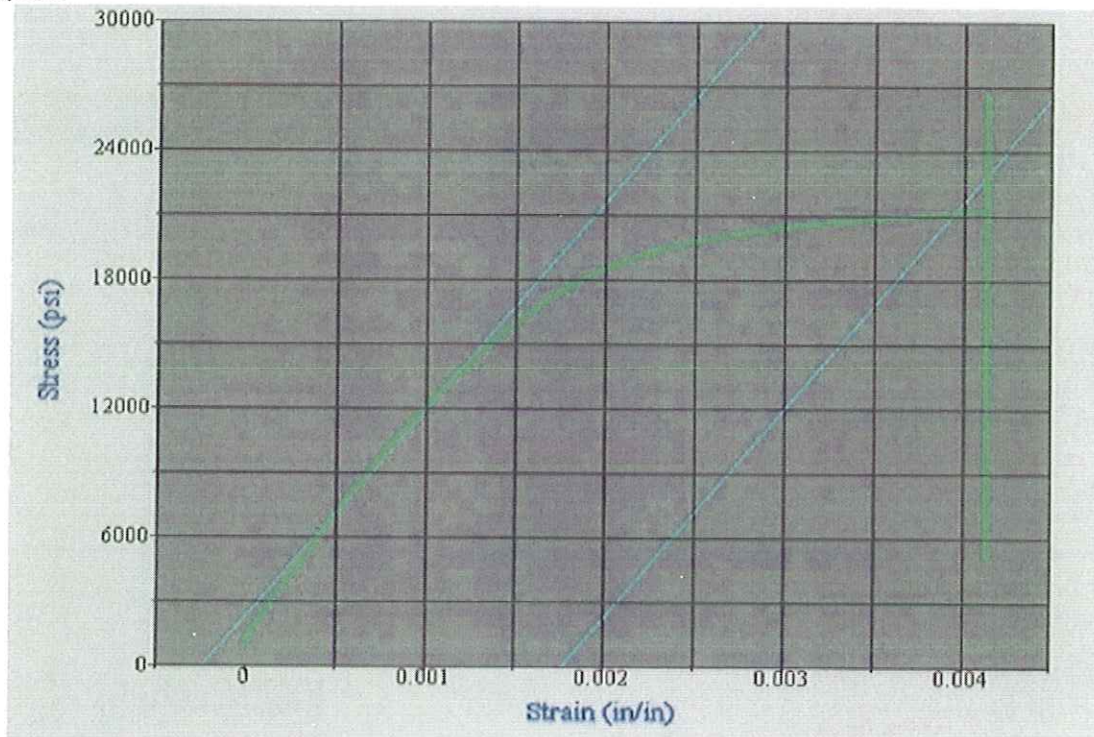
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OFFICIAL TEST REPORT

Sample 3:



Test Summary

Counter:	882
Elapsed Time:	00:01:10
Procedure Name:	tensile with extensometer
Start Date:	6/12/2013
Start Time:	12:04:35 PM
End Date:	6/12/2013
End Time:	12:05:45 PM
Workstation:	Fenestration Testing Lab
Tested By:	Default
Material:	Aluminum
Sample:	7412 A-3

Test Results

Width:	0.5000 in
Thickness:	0.0320 in
Area:	0.0160 in ²
Young's Modulus:	9652405 psi
Ultimate Yield:	21120 psi
Total Elongation:	6.50 %
Pretest Punch Length:	2 in
Posttest Punch Length:	2.130 in
Ultimate Stress:	26594 psi
Ultimate Load:	426 lbf
Yield load:	338 lbf



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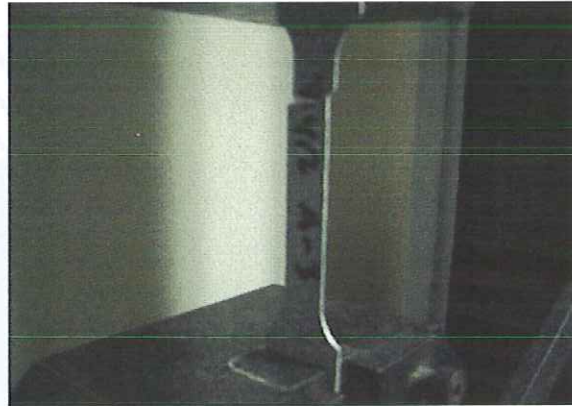
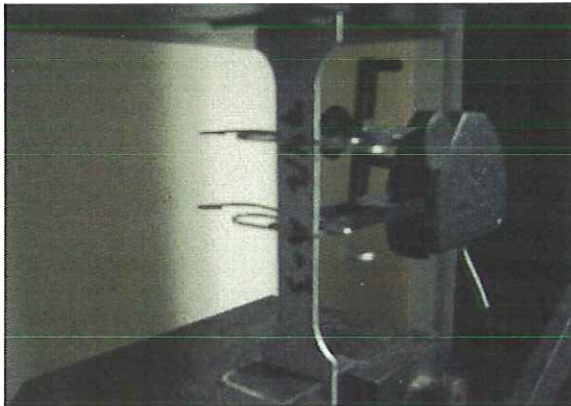
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Sample 3 continued:





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Revision	Description	Author of Report	Effective Date
0	Initial Release	Ms. Iliana Sanchez	6/11/2013

NOTES

At conclusion of above tests, there were no loose panels or water penetration through the test deck. See appendix A for the calibration records as indicated in TAS 100-95.

REMARKS

Representative samples of the test specimens will be retained by Fenestration Testing Laboratory for a period of five years from the original test date, and test report for a period of ten years. This product was tested in accordance with the Florida Building Code (2010) TAS 100-95, with no deviations. This material was tested in accordance with ASTM E 8-11 with no deviations. Test results obtained represent the actual value of the tested specimens and do not constitute opinion, endorsement or certification by this laboratory. This test report is considered the exclusive property of the client named herein and is applicable to the sample tested. This report may not be reproduced without the approval of Fenestration Testing Laboratory, Inc.

Witnessed by:
Mr. Jorge A. Naya, Jr., P.E.

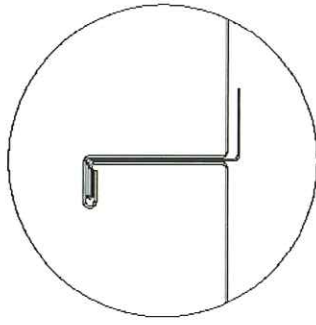
FENESTRATION TESTING LABORATORY, INC.

Technician:
Mr. Harold Anacona

Mr. Manny Sanchez
Chief Executive Officer

Appendix A- Calibration records

Only items checked in red have been
verified by laboratory



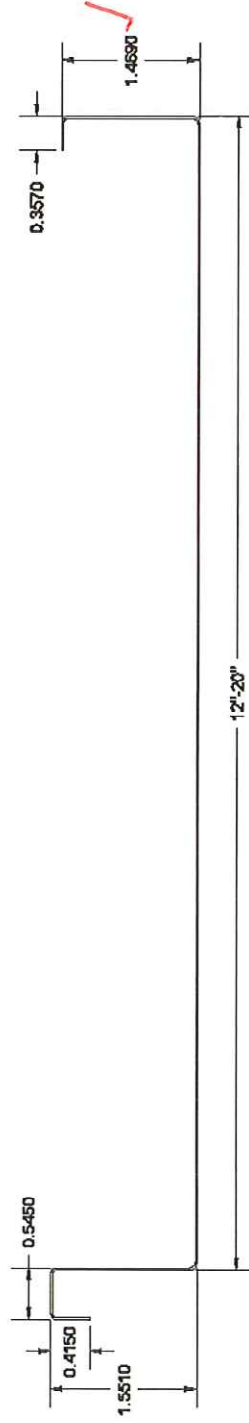
SINGLE-LOCK BEAM 80°

FENESTRATION TESTING LAB, INC

LAB # 7412

DATE: 6-13-13

DRAWING VERIFIED BY: TS



STIFFENING RIBS & STRIATIONS OPTIONAL

All Dimensional Tolerances are $\pm 0.030"$ and/or $\pm 3^\circ$

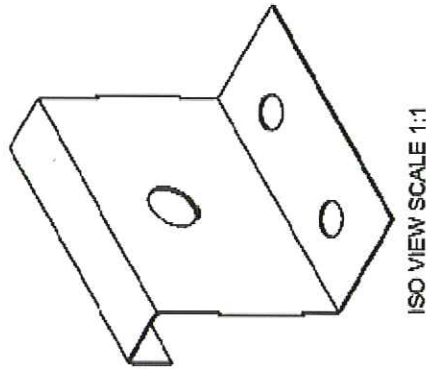
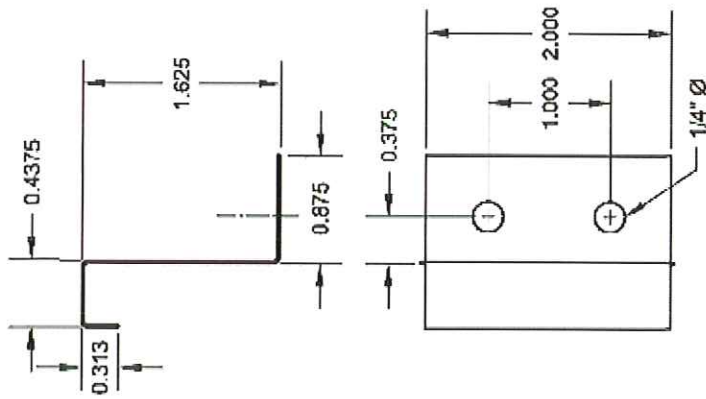
PAC-150 PANEL PROFILE

SPECIFY GAUGE:

SPECIFY MATERIAL:

SCALE 1:1

Rev. 05/13



ALL DIMENSIONS ARE
DECIMAL INCHES

TOLERANCE: 0.030±

Only items checked in red have been
verified by laboratory

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LAB # 7412

DATE: 6-13-13

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PAC-150 PANEL CLIP

SPECIFY GAUGE:

SPECIFY MATERIAL:

SCALE 1:1

Rev. 05/13

Use Joggle Cleat
both sides: 4" - 6"
from valley center

1.00

10.0 min.

Match Roof Pitch

Only items checked in red have been
verified by laboratory

FENESTRATION TESTING LAB, INC

LAB # 7412

DATE: 6-13-13

DRAWING VERIFIED BY: JS

VALLEY FLASHING

SPECIFY GAUGE:

SPECIFY MATERIAL:

SCALE NTS

Rev. 05/13

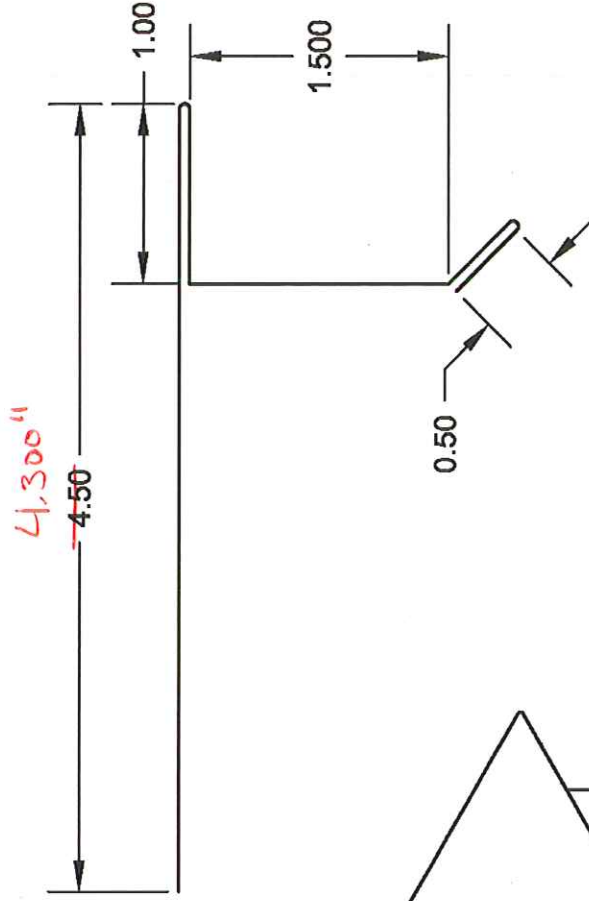
FENESTRATION TESTING LAB, INC

LAB # 7412

DATE: 6-13-13

DRAWING VERIFIED BY: JS

Only items checked in red have been
verified by laboratory



Only items checked in red have been
verified by laboratory

GABLE FLASHING

SPECIFY GAUGE:

SPECIFY MATERIAL:

SCALE 1:1

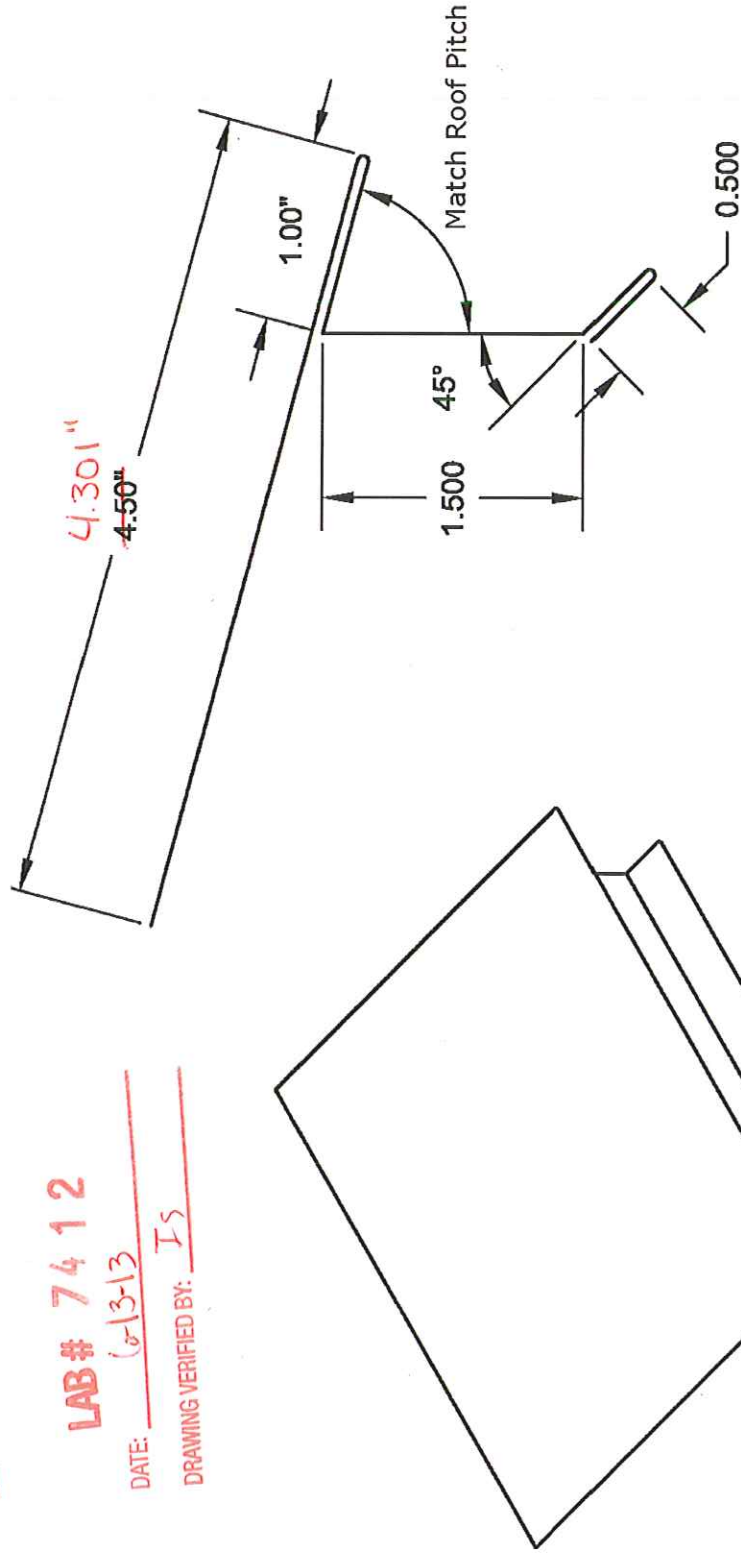
Rev. 05/13

FENESTRATION TESTING LAB, INC

LAB # 7412

DATE: 6-13-13

DRAWING VERIFIED BY: IS



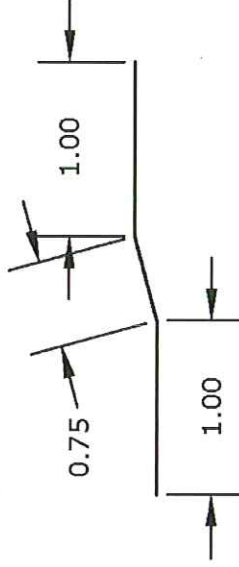
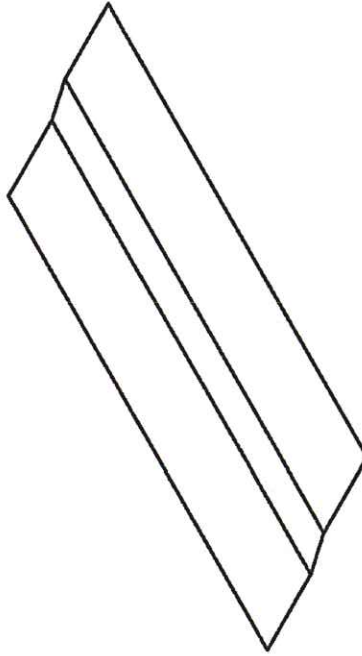
BULLNOSE EAVE

SPECIFY GAUGE:

SPECIFY MATERIAL:

SCALE 1:1

Rev. 05/13



FENESTRATION TESTING LAB, INC

LAB # 7412

DATE: 6-13-13

DRAWING VERIFIED BY: JS

JOGGLE CLEAT

SPECIFY GAUGE:

SPECIFY MATERIAL:

SCALE NTS

Rev. 05/13