

TAS 202 TEST REPORT

Report No.: D7097.01-109-18

Rendered to:

AMERIMAX EXTERIOR HOME PRODUCTS
Lancaster, Pennsylvania

PRODUCT TYPE: Louver System (Aluminum)
SERIES/MODEL: Equinox

This report contains in its entirety:

Cover Page: 1 page
Report Body: 9 pages
Load Data: 2 pages
Tensile Test Data: 3 pages
Sketch: 1 page
Photographs: 2 pages
Drawings: 4 pages

Test Start Date:	7/29/2014
Test End Date:	7/31/2014
Revision 2:	10/28/2014
Report Date:	9/24/2014
Test Record Retention End Date:	7/31/2024
Miami-Dade County Notification No.:	ATI 14014

1.0 Client Identification:

1.1 Report Issued To: Amerimax Exterior Home Products
P.O. Box 4515
450 Richardson Drive
Lancaster, Pennsylvania 17603

1.2 Contact Person: Vincent Kehs

2.0 Laboratory Identification:

2.1 Test Laboratory: Architectural Testing, Inc.
130 Derry Court
York, Pennsylvania 17406-8405

2.2 Laboratory Phone Number: 717-764-7700

3.0 Project Summary:

3.1 Introduction: Architectural Testing, Inc. was contracted by Amerimax Exterior Home Products to conduct TAS 202 testing on their Equinox, Louver System (Aluminum) in accordance with Florida Building Code for High Velocity Hurricane Zone and Miami-Dade County requirements. The three specimen(s) tested met the performance requirements set forth in the protocols. The results are summarized in Table 1.

Table 1: Summary of Test Results

Specimen #	Test Protocol	Design Pressure
1	TAS 202	+30.00 / -85.00 psf
2	TAS 202	+30.00 / -40.00 psf
3	Gravity load testing per Chapter 16 of FBC	+5 psf
3	TAS 202	+30.00 / -17.50 psf

3.2 Product Type: Louver System (Aluminum)

3.3 Series/Model: Equinox

3.4 Miami-Dade County Notification No.: ATI 14014

3.5 Test Dates: 7/29/2014 - 7/31/2014

3.6 Test Record Retention End Date: 7/31/2024

3.7 Test Location: Architectural Testing, Inc. test facility in York, Pennsylvania.

3.0 Project Summary: (Continued)

3.8 Test Specimen Source: The test specimen(s) were provided by the client. Representative samples of the test specimen(s) will be retained by Architectural Testing for a minimum of ten years from the test completion date.

3.9 Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix E. Any deviations are documented herein and on the drawings.

3.10 List of Official Observers:

<u>Name</u>	<u>Company</u>
Vincent Kehs	Amerimax Exterior Home Products
Michael D. Stremmel, P.E.	Architectural Testing, Inc.
Stephen R. Fowler	Architectural Testing, Inc.

4.0 Test Protocol(s):

TAS 202-94, *Criteria for Testing Impact & Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure*

5.0 Test Specimen Description:

5.1 Product Sizes: Table 2 provides product sizes for the overall test specimen(s).

Table 2: Overall Specimen

Test Specimen #1:

Overall Area: 24.9 ft ²	Width (in.)	Length (in.)
Overall size	37-1/2	95-1/2
Individual blade size (4)	8-5/8	91

Test Specimen #2:

Overall Area: 47.7 ft ²	Width (in.)	Length (in.)
Overall size	48	143
Individual blade size (5)	8-5/8	138-1/2

5.0 Test Specimen Description: (Continued)

5.1 Product Sizes: (Continued)

Test Specimen #3:

Overall Area: 55.7 ft ²	Width (in.)	Length (in.)
Overall size	48	167
Individual blade size (5)	8-5/8	162-1/2

5.2 Louver Blade Description: The louver blades were constructed from extruded aluminum. The end of each blade utilized a cast aluminum end cap, secured to the blade with two #12 x 1-1/4" long flat head screws.

5.3 Frame Description: The louver system utilized a four piece aluminum box beam, (Reference Detail F2, Drawing #EquinoxPlansFBC_FPA.dwg) frame. An aluminum beam clip was secured to the side beams with four #14 x 3/4" self-drilling screws. The end beams were notched then slipped over the beam clip and secured to the beam clip with eight #14 x 3/4" self-drilling screws, (four on the interior and four on the exterior).

5.4 Assembly Description: Aluminum pivot strips, (Reference Detail F3, Drawing #EquinoxPlansFBC_FPA.dwg) were secured to the side frame beam with #14 x 3/4" self-drilling screws, spaced 8" on center. An electric operator motor assembly was attached to the center of the side frame beams with four #14 x 3/4" self-drilling screws. Aluminum louvers with end caps were set into the pivot strips and connected with an aluminum link bar. The link bar was secured to the louver end caps with a push-on retainer washer at each louver. The operator motor was secured to the link bar with one 5/16" x 1" bolt with washers and lock nut.

6.0 Test Results: The temperature during TAS 202 testing was 74°F. Results are tabulated as follows:

6.1 Protocol TAS 202-94, Static Air Pressure

Table 3 provides the results for positive and negative uniform static load test.

Table 3: Test Specimen #1 TAS 202, Positive Load Test Results

Load (psf)	Indicator Location	Deflection (in.)		Permanent Set (in.)	
		Measured	Allowed	Measured	Allowed
+22.50 75% of Design Pressure	#1	0.31	N/A	<0.01	N/A
+30.00 Design Pressure	#1	0.42	N/A	<0.01	N/A
+60.00 Test Pressure	#1	0.85	N/A	<0.01	0.18

Table 4 provides the results for negative uniform static load test.

Table 4: Test Specimen #1 TAS 202, Negative Load Test Results

Load (psf)	Indicator Location	Deflection (in.)		Permanent Set (in.)	
		Measured	Allowed	Measured	Allowed
-63.75 75% of Design Pressure*	#1	0.95	N/A	0.01	N/A
-85.00 Design Pressure**	#1	1.21	N/A	0.01	N/A
-170.00 Test Pressure	#1	2.26	N/A	0.03	0.18

*Data obtained during -70.00 psf load step.

**Data obtained during -90.00 psf load step.

Note: Reference tables #1 and #2 in Appendix A for complete test data.

6.0 Test Results: (Continued)

6.1 Protocol TAS 202-94, *Static Air Pressure*

Table 5 provides the results for positive and negative uniform static load test.

Table 5: Test Specimen #2 TAS 202, Positive Load Test Results

Load (psf)	Indicator Location	Deflection (in.)		Permanent Set (in.)	
		Measured	Allowed	Measured	Allowed
+22.50 75% of Design Pressure	#1	1.71	N/A	<0.01	N/A
+30.00 Design Pressure	#1	2.07	N/A	<0.01	N/A
+60.00 Test Pressure	#1	3.32	N/A	<0.01	0.28

Table 6 provides the results for negative uniform static load test.

Table 6: Test Specimen #2 TAS 202, Negative Load Test Results

Load (psf)	Indicator Location	Deflection (in.)		Permanent Set (in.)	
		Measured	Allowed	Measured	Allowed
-30.00 75% of Design Pressure	#1	2.02	N/A	0.01	N/A
-40.00 Design Pressure	#1	2.62	N/A	0.01	N/A
-80.00 Test Pressure	#1	4.62	N/A	0.02	0.28

Note: Reference tables #3 and #4 in Appendix A for complete test data.

6.0 Test Results: (Continued)

6.1 Protocol TAS 202-94, *Static Air Pressure*

Table 7 provides the results for positive and negative uniform static load test.

Table 7: Test Specimen #3 TAS 202, Positive Load Test Results

Load (psf)	Indicator Location	Deflection (in.)		Permanent Set (in.)	
		Measured	Allowed	Measured	Allowed
+22.50 75% of Design Pressure	#1	2.51	N/A	0.01	N/A
+30.00 Design Pressure	#1	3.12	N/A	0.02	N/A
+60.00 Test Pressure	#1	4.69	N/A	0.02	0.33

Table 8 provides the results for negative uniform static load test.

Table 8: Test Specimen #3 TAS 202, Negative Load Test Results

Load (psf)	Indicator Location	Deflection (in.)		Permanent Set (in.)	
		Measured	Allowed	Measured	Allowed
-13.13 75% of Design Pressure*	#1	2.14	N/A	0.01	N/A
-17.50 Design Pressure**	#1	2.75	N/A	0.01	N/A
-35.00 Test Pressure	#1	4.27	N/A	0.02	0.33

Note: See Architectural Testing Sketches #1 and #2 in Appendix C for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Conclusion: Architectural Testing observed no signs of failure in any area of the test specimen during the TAS 202 testing; as such, the test specimens satisfy the requirements of TAS 202.

*Data obtained during -15.00 psf load step.

**Data obtained during -20.00 psf load step.

Note: Reference tables #5 and #6 in Appendix A for complete test data.

7.0 Gravity Load Test Results:

7.1 Test Method: A uniform gravity load was applied to Test Specimen #3 in accordance with the requirements of Florida Building Code 2010, Chapter 16. The gravity load test was applied to the specimen by applying 10 lb sand bags uniformly over the surface of the test specimen. A 10 psf gravity load was applied to the specimen, which was based on the Code that required a gravity load of 5 psf and a 2.0 safety factor. The 10 psf gravity load was applied to the specimen via the sand bags and maintained on the specimen for a period of 24 hours. At the completion of the 24 hour test, the sand bags were removed and the specimen was inspected for any signs of damage.

7.2 Test Results: The specimen tested successfully completed the 24 hour gravity load of 5 psf uniform load and a 24 hour gravity load of 10 psf (2.0 safety factor applied to the design load) without any permanent damage.

8.0 ASTM E 8 Test Results:

8.1 Test Method: The test specimens were evaluated in accordance with ASTM E 8-08, *Standard Test Methods for Tensile Testing of Metallic Materials*. The test specimens were machined and sized in compliance with section 6.0 of the standard. The specimens were tested using a Satec 50UD Universal Machine with a cross head speed of 0.2 in/min.

8.2 Test Results: The test results for the louver blade are shown on the test logs in Appendix B and summarized in the following table.

Table 9: Louver Blade Test Results

Specimen	Yield Strength (psi)	Tensile Load (lbf)	Tensile Strength (psi)	Elongation (%)	Area Reduction (%)
1	29,802	853	33,639	14.3	8.0
2	29,672	980	34,816	16.1	10.0
3	29,862	1088	34,803	14.5	10.0
4	31,610	850	34,410	14.8	5.0
5	30,307	959	35,536	17.5	9.0
Average	30,251	946	34,641	15.4	8.4

The average Modulus of Elasticity for the tested specimens was 9.86×10^6 psi.

9.0 Test Equipment:

Deflection Measuring Device: Linear transducers

10.0 Laboratory Compliance Statements: The following are provided as required by the protocols for the testing reported herein.

Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building.

Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

Stephen R. Fowler
Technician

Michael D. Stremmel, P.E.
Senior Project Engineer

SRF:asm

Attachments (pages): This report is complete only when all attachments listed are included.

- Appendix A: Load Data (2)
- Appendix B: Tensile Test Data (3)
- Appendix C: Sketch (1)
- Appendix D: Photographs (2)
- Appendix E: Drawings (4)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
1	10/17/14	Page 3	<p>5.3 Frame Description: Added Detail F2 to Drawing #EquinoxPlansFBC_FPA.dwg reference</p> <p>5.4 Assembly Description: Added Detail F3 and changed drawing reference from Drawing #Pivot Strip.dwg to #EquinoxPlansFBC_FPA.dwg</p> <p>Appendix-A: Load Data Changed data in Table #4 to reflect datasheets</p> <p>Appendix-C: Sketch Updated sketch</p> <p>Appendix-E: Drawings Updated drawings packet</p>
2	10/28/14	Appendix-E: Drawings	Updated drawings packet

Appendix A

Load Data

Table #1: Test Specimen #1 Positive Load Data

Pressure (psf)	Deflection				Permanent Set			
	Left	Center	Right	Net	Left	Center	Right	Net
+22.5	0.05	0.37	0.06	0.32	<0.01	<0.01	<0.01	<0.01
+30.0	0.07	0.50	0.08	0.43	<0.01	<0.01	<0.01	<0.01
+60.0	0.14	1.00	0.15	0.86	<0.01	<0.01	<0.01	<0.01

Table #2: Test Specimen #1 Negative Load Data

Pressure (psf)	Deflection				Permanent Set			
	Left	Center	Right	Net	Left	Center	Right	Net
-10.0	0.02	0.17	0.02	0.15	<0.01	<0.01	<0.01	<0.01
-20.0	0.05	0.33	0.04	0.29	<0.01	0.01	<0.01	0.01
-30.0	0.07	0.49	0.06	0.43	0.01	0.01	<0.01	<0.01
-40.0	0.11	0.65	0.09	0.55	0.01	0.01	0.01	<0.01
-50.0	0.15	0.82	0.10	0.70	0.01	0.01	0.01	<0.01
-60.0	0.18	0.98	0.13	0.83	0.01	0.02	0.01	0.01
-70.0	0.22	1.13	0.15	0.95	0.01	0.02	0.01	0.01
-80.0	0.24	1.29	0.17	1.09	0.02	0.02	0.01	0.01
-90.0	0.27	1.44	0.19	1.21	0.02	0.03	0.02	0.01
-100.0	0.30	1.59	0.22	1.33	0.03	0.03	0.02	0.01
-110.0	0.33	1.75	0.24	1.47	0.03	0.04	0.02	0.02
-120.0	0.36	1.90	0.26	1.59	0.03	0.04	0.03	0.01
-130.0	0.40	2.06	0.30	1.71	0.04	0.05	0.03	0.02
-140.0	0.46	2.24	0.33	1.85	0.04	0.06	0.03	0.03
-150.0	0.50	2.40	0.36	1.97	0.04	0.07	0.04	0.03
-160.0	0.56	2.62	0.41	2.14	0.08	0.09	0.03	0.04
-170.0	0.63	2.80	0.45	2.26	0.17	0.17	0.11	0.03
-180.0	Louver blades pulled out of the pivot strip							

Table #3: Test Specimen #2 Positive Load Data

Pressure (psf)	Deflection				Permanent Set			
	Left	Center	Right	Net	Left	Center	Right	Net
+22.5	0.13	1.86	0.17	1.71	<0.01	0.02	0.02	<0.01
+30.0	0.16	2.25	0.21	0.16	<0.01	0.02	0.02	<0.01
+60.0	0.27	3.63	0.35	3.32	0.01	0.03	0.05	<0.01

Table #4: Test Specimen #2 Negative Load Data

Pressure (psf)	Deflection				Permanent Set			
	Left	Center	Right	Net	Left	Center	Right	Net
-10.0	0.06	0.77	0.05	0.72	<0.01	0.02	0.01	0.01
-20.0	0.13	1.52	0.12	1.40	0.01	0.02	0.01	0.01
-30.0	0.19	2.20	0.18	2.02	0.01	0.03	0.02	0.02
-35.0	0.21	2.53	0.21	2.32	0.01	0.03	0.02	0.02
-40.0	0.24	2.85	0.23	2.62	0.01	0.03	0.02	0.02
-45.0	0.26	3.11	0.26	2.85	0.02	0.03	0.02	0.01
-50.0	0.29	3.43	0.28	3.15	0.02	0.03	0.02	0.01
-55.0	0.32	3.75	0.31	3.44	0.03	0.03	0.02	0.01
-60.0	0.34	4.01	0.32	3.68	0.03	0.04	0.02	0.02
-65.0	0.36	4.24	0.34	3.89	0.03	0.04	0.03	0.01
-70.0	0.38	4.49	0.37	4.12	0.04	0.05	0.04	0.01
-75.0	0.40	4.73	0.40	4.33	0.04	0.05	0.04	0.01
-80.0	0.42	5.04	0.42	4.62	0.04	0.06	0.04	0.02
-85.0	Pivot pin retainer on the end cap broke during application of the test load							

Table #5: Test Specimen #3 Positive Load Data

Pressure (psf)	Deflection				Permanent Set			
	Left	Center	Right	Net	Left	Center	Right	Net
+22.5	0.18	2.69	0.18	2.51	0.02	0.02	<0.01	0.01
+30.0	0.23	3.34	0.22	3.11	0.02	0.03	<0.01	0.02
+60.0	0.40	5.03	0.29	4.68	0.03	0.01	0.03	0.02

Table #6: Test Specimen #3 Negative Load Data

Pressure (psf)	Deflection				Permanent Set			
	Left	Center	Right	Net	Left	Center	Right	Net
-5.0	0.05	0.85	0.04	0.80	<0.01	0.01	<0.01	<0.01
-10.0	0.09	1.59	0.08	1.50	<0.01	0.01	<0.01	<0.01
-15.0	0.13	2.26	0.11	2.14	0.01	0.01	<0.01	<0.01
-20.0	0.17	2.90	0.14	2.74	0.01	0.01	<0.01	<0.01
-25.0	0.21	3.49	0.17	3.30	0.01	0.03	0.01	0.02
-30.0	0.24	3.93	0.19	3.71	0.01	0.03	0.01	0.02
-35.0	0.29	4.52	0.22	4.26	0.02	0.05	0.01	0.03
-40.0	Screw pulled out of the frame at the pivot strip.							



Architectural Testing

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Appendix B

Tensile Test Data



Architectural Testing

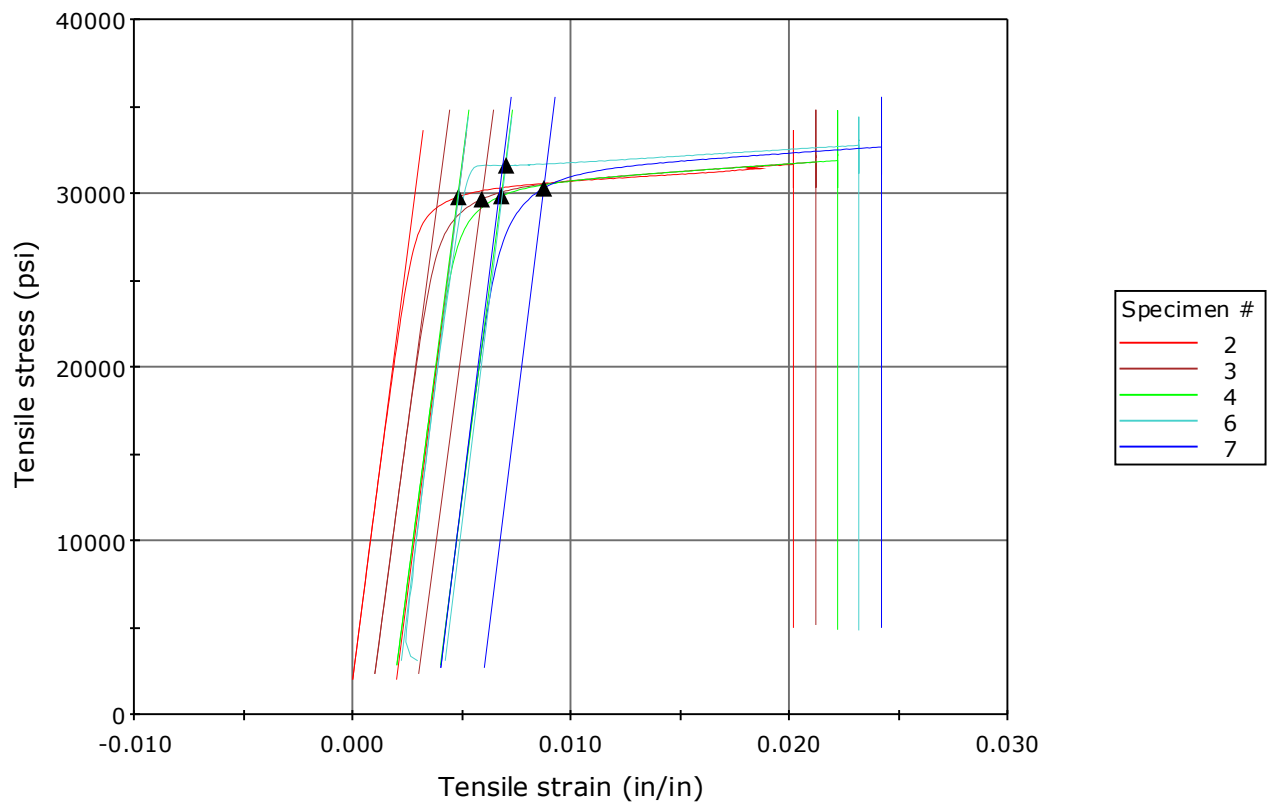
ASTM E8 - 08, Tensile Strength of Metallic Materials

Last Updated by: Gary Hartman 06/21/2010

Uses Instron Wedge Grips with appropriate wedges for materials being evaluated.

ATI Job #	D7097.03-106-31/16' Louver Sys.
Client Name	Amerimax Exterior Home Products
Test Speed	0.20000 in/min
Load Cell Capacity / ICN	50 Kn/005740
Load Cell Calibration Due Date	09/04/14
Test Frame / ICN	Instron 3369
Frame Calibration Due Date	09/04/14
Lab Conditions	69°F / 53% R.H.

Specimens 2 to 7





Architectural Testing

Measured Values

	Specimen ID	Original Thickness (in)	Final thickness (in)	Original Width (in)
2	#1) 16' - Louver Sys.	0.0507	0.0488	0.5000
3	#2) 16' - Louver Sys.	0.0563	0.0536	0.5000
4	#3) 16' - Louver Sys.	0.0624	0.0590	0.5010
6	#4) 16' - Louver Sys.	0.0494	0.0486	0.5000
7	#5) 16' - Louver Sys.	0.0540	0.0509	0.5000
Mean		0.0546	0.0522	0.5002
Standard Deviation		0.01	0.00	0.00

	Final width (in)	Original Length (in)	Final length (in)
2	0.4780	2.0000	2.2860
3	0.4710	2.0000	2.3220
4	0.4770	2.0000	2.2890
6	0.4820	2.0000	2.2960
7	0.4830	2.0000	2.3500
Mean	0.4782	2.0000	2.3086
Standard Deviation	0.00	0.00	0.03

Calculated Values

	Maximum Load (lbf)	Yield Strength (psi)	Tensile Strength (psi)	Modulus of Elasticity (psi)
2	853	29802	33639	9810319
3	980	29672	34816	9443802
4	1088	29862	34803	9682931
6	850	31610	34410	10212332
7	959	30307	35536	10173874
Mean	946	30250	34641	9864651
Standard Deviation	99.29	796.41	691.99	327715.19

	Reduction of Area (%)	% Elongation	Start Date	End Date
2	8	14.3	4/25/2014 7:34 AM	4/25/2014 7:35 AM
3	10	16.1	4/25/2014 7:38 AM	4/25/2014 7:40 AM
4	10	14.5	4/25/2014 7:42 AM	4/25/2014 7:44 AM
6	5	14.8	4/25/2014 7:49 AM	4/25/2014 7:50 AM
7	9	17.5	4/25/2014 7:52 AM	4/25/2014 7:54 AM
Mean	8	15.4		
Standard Deviation	2.07	1.36		



Architectural Testing

Sample note 3



Architectural Testing

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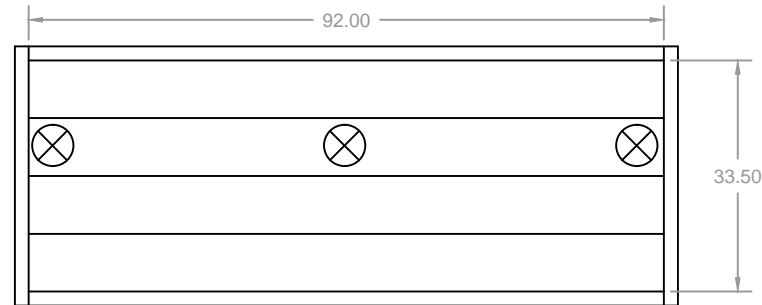
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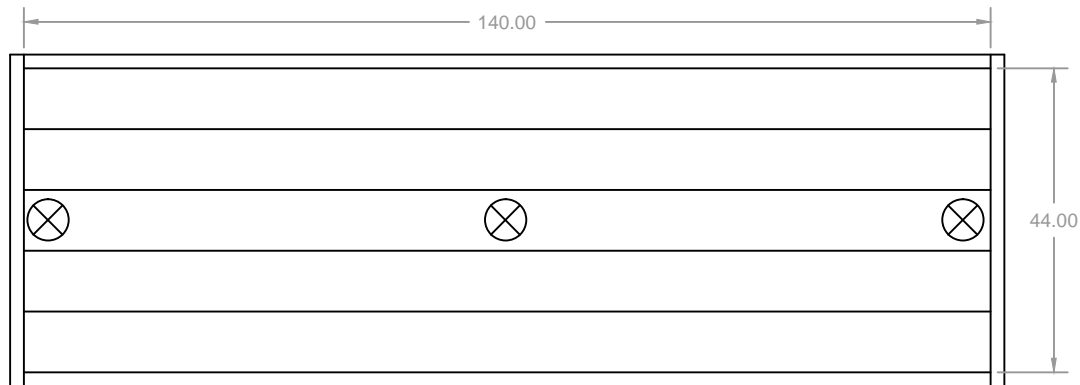
Appendix C

Sketch

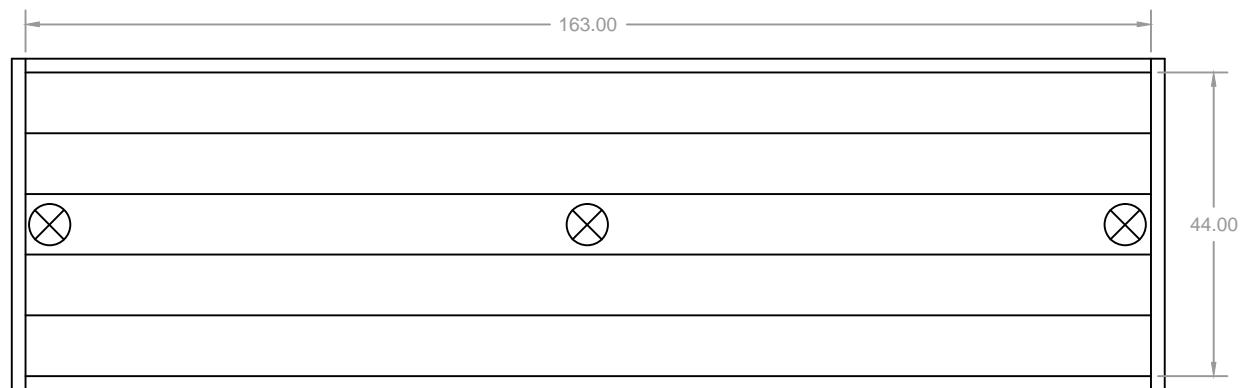
REV	DATE	DESCRIPTION	BY



Test Specimen #1 - 8' wide Louver System



Test Specimen #2 - 12' wide Louver System



Test Specimen #3 - 14' wide Louver System

Appendix D

Photographs



Photo No. 1
8' Unit Set-up for Negative Loads



Photo No. 2
12' Unit Set-up for Negative Loads



Photo No. 3
14' Unit Set-up for Gravity Load Test



Photo No. 4
14' Unit Set-up for Negative Loads



Architectural Testing

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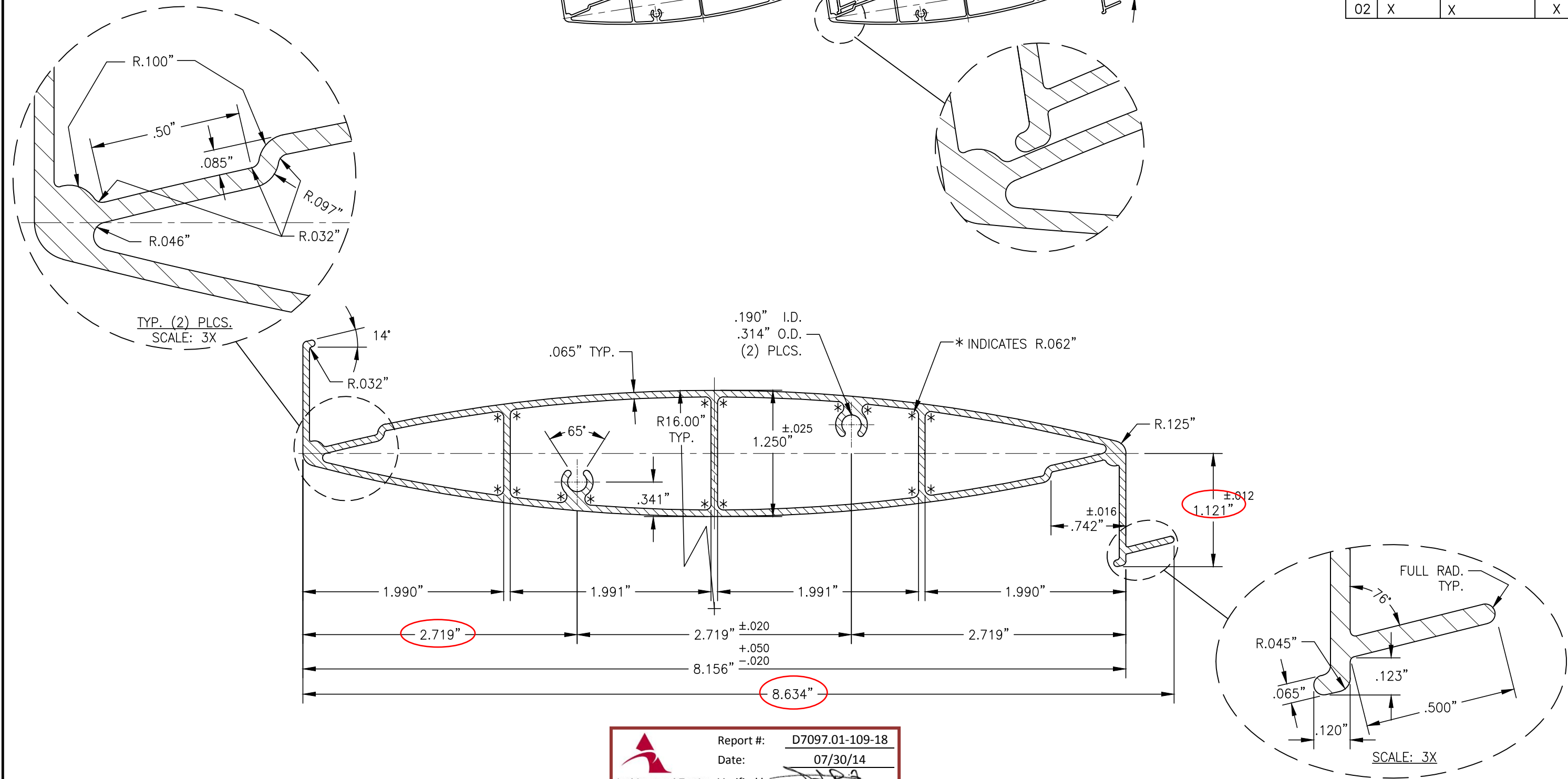
Report Date: 9/24/2014

Appendix E

Drawings

THE INFORMATION IN THIS DRAWING IS THE SOLE PROPERTY OF AMERIMAX HOME PRODUCTS INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF AMERIMAX HOME PRODUCTS INC. IS PROHIBITED.

PART TABULATION			
Line No.	Part No.	Material	Length
01	X	X	X
02	X	X	X

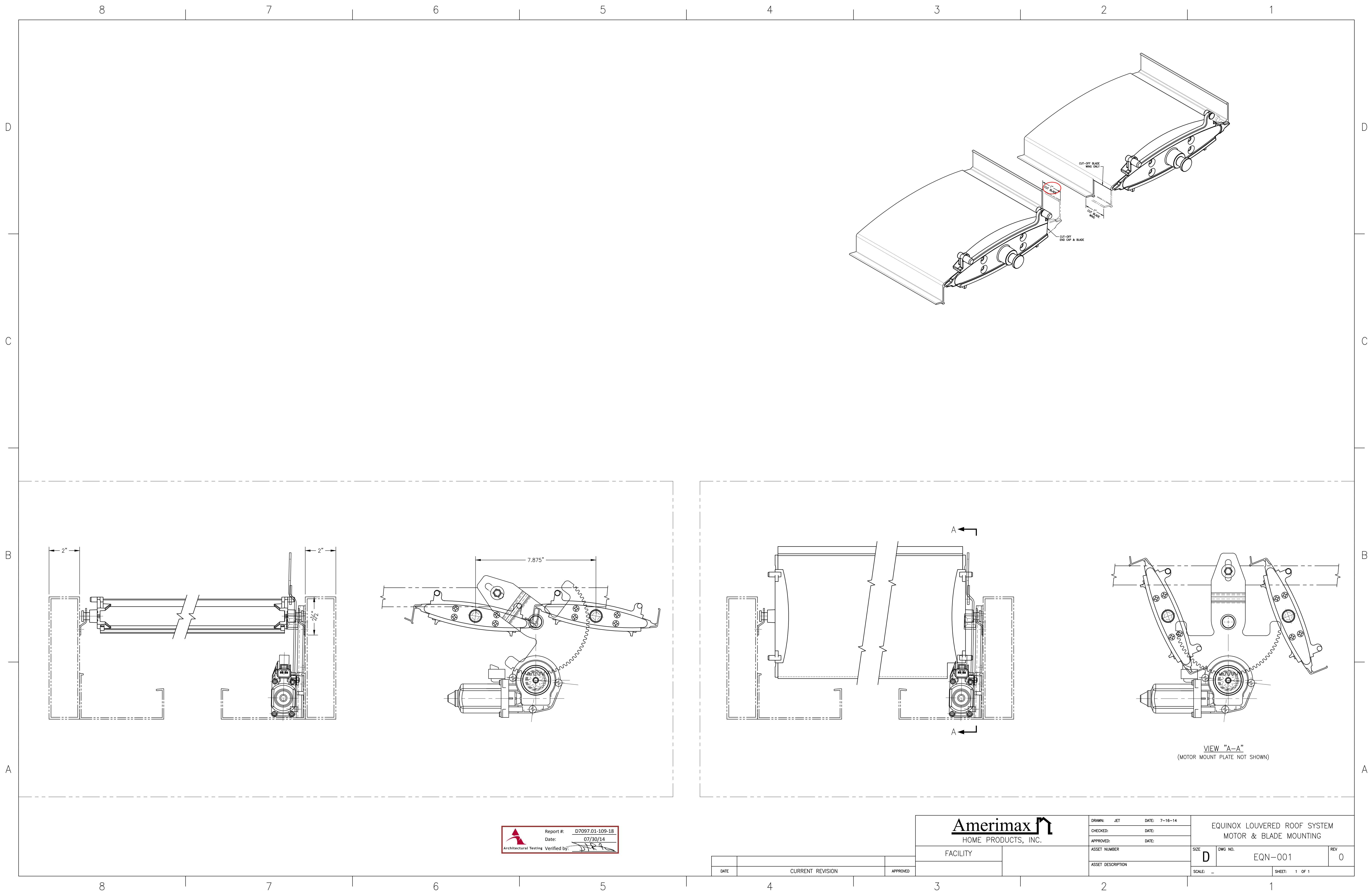


- NOTES:
1. TYP. WALL .065" UNLESS NOTED.
 2. BREAK SHARP CORNERS TO .016"R.
 3. MATERIAL: 6063-T5 ALUMINUM
 4. WEIGHT/FOOT APX. 1.896 lbs.

Amerimax
HOME PRODUCTS, INC.

DRAWN: JET	DATE: 10/16/13	PATIO BLADE EQUINOX XP PATIO COVER	
CHECKED:	DATE:		
APPROVED:	DATE:		
ASSET NUMBER	SIZE B	DWG NO. PD-10327	REV 1
ASSET DESCRIPTION	SCALE: 1:1 UNLESS NOTED	SHEET: 1 OF 1	

4/16/14	REVISED TO CURRENT DESIGN	
DATE	CURRENT REVISION	APPROVED



Report #: D7097.01-109-18
Date: 07/30/14
Architectural Testing Verified by: [Signature]

Amerimax
HOME PRODUCTS, INC.

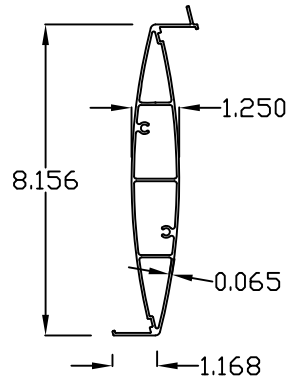
DRAWN: JET DATE: 7-16-14
CHECKED: DATE:
APPROVED: DATE:
ASSET NUMBER
ASSET DESCRIPTION

EQUINOX LOUVERED ROOF SYSTEM
MOTOR & BLADE MOUNTING

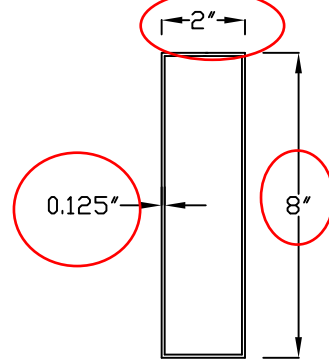
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SCALE: - SHEET: 1 OF 1

DATE	CURRENT REVISION	APPROVED

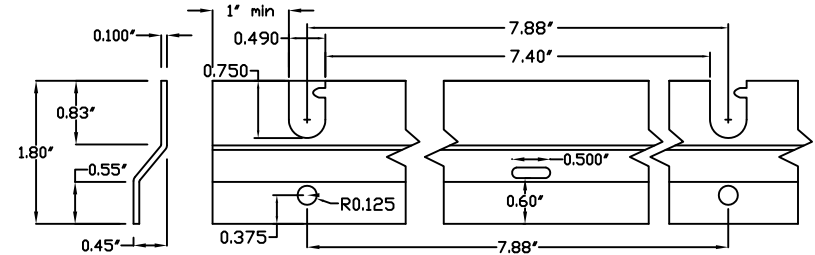
DETAIL F1
EXTRUDED 6063T5
ALUMINUM LOUVER



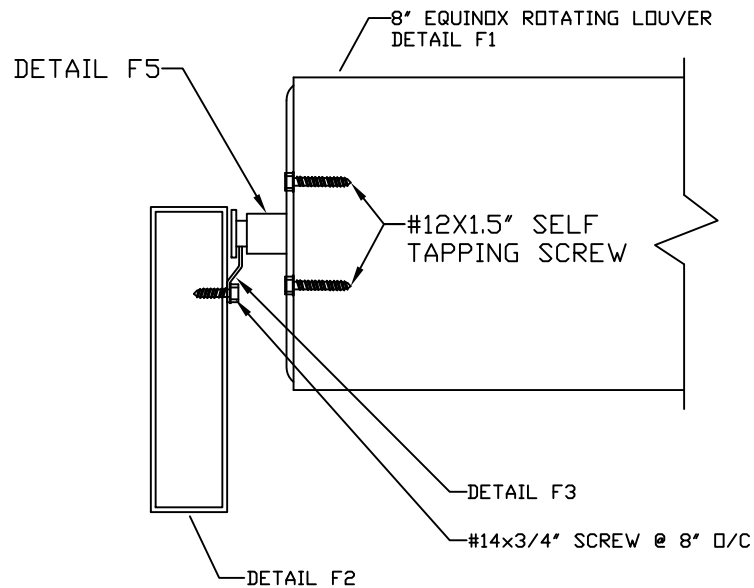
DETAIL F2
2"x8" EQUINOX HEADER AND
RETURN BEAM
(6061-T6 ALUM. ALLOY)



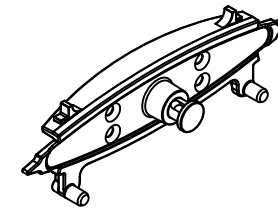
DETAIL F3
EQUINOX LOUVER
MOUNTING RAIL
0.100" 6005A-T5 ALUM



DETAIL F4
EQUINOX LOUVER TO MOUNTING
RAIL TO HEADER CONNECTION



DETAIL F5
CAST ALUMINUM A380 END CAP



Architectural Testing

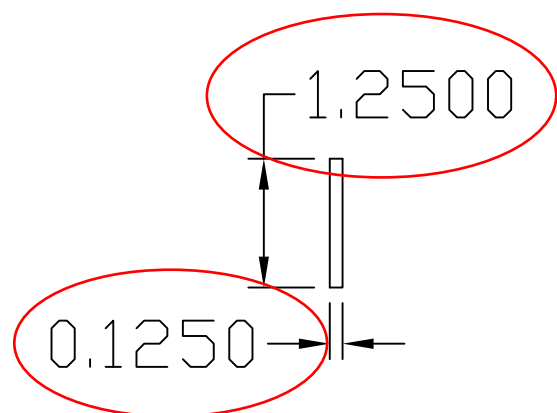
Report #: D7097.01-109-44

Date: 10/17/14

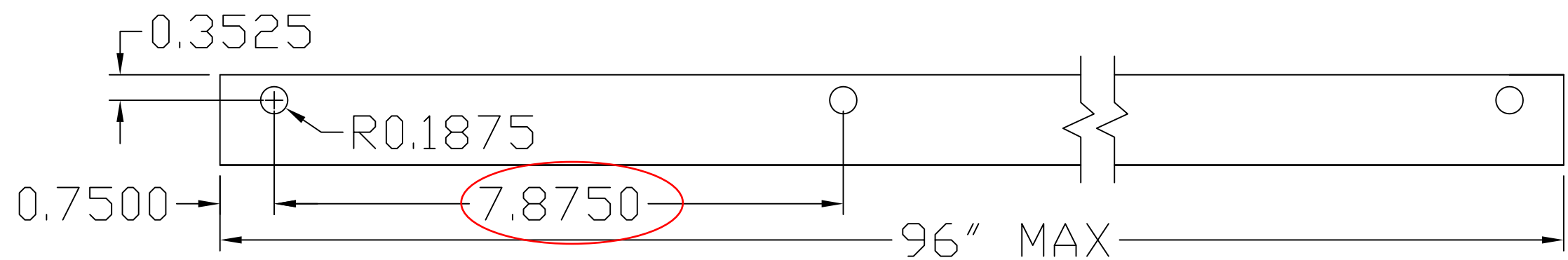
Verified by:

[Signature]

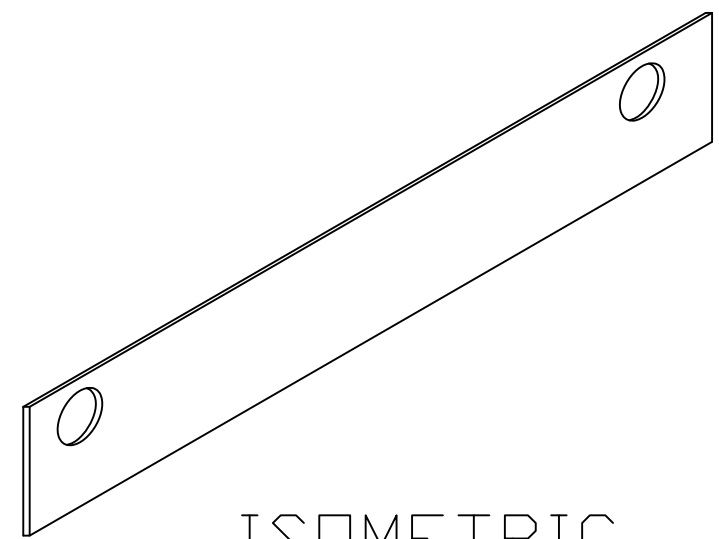
DATE	DRAWN BY	CLIENT	FILE	DESC
9/19/2014	CMP	CARL PUTNAM	EquinoxPlansFBC_FPA.dwg	DETAILS
		P.E.		
		AMERIMAX EXTERIOR PRODUCTS		



CROSS
SECTION
VIEW



EQUINOX LINK BAR



ISOMETRIC
PERSPECTIVE
OF SAMPLE

GENERAL NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. MATERIAL: 6061T6 ALUMINUM



Report #: D7097.01-109-44
Date: 10/17/14
Verified by: 

DATE	DRAWN BY	CARL PUTNAM P.E.	3441 IVY LINK PLACE LYNCHBURG, VA 24503 (434) 384-2514 CARLPUTNAME@COMCAST.NET
12/5/11	FG	CLIENT	AMERIMAX
		FILE	LINK BAR.DWG
		DESC	STRUCTURE
			1 of 1