



**MIAMI-DADE COUNTY
PERFORMANCE TEST REPORT**

Rendered to:

EFCO CORPORATION

SERIES/MODEL: 6621

PRODUCT TYPE: Thermally Improved Aluminum Fixed Window

This report contains in its entirety:

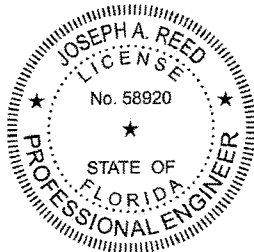
Cover Page: 1 page

Report Body: 19 pages

Sketch: 1 page

Drawings: 10 pages

Secure Electronic Seal
for Electronic Submittal



Joseph A. Reed
Digitally Signed by: Joseph A. Reed

Date: 2009.03.13 13:06:02 -04'00'

Report No.: 87165.01-801-18

Test Dates: 02/12/09

Through: 03/03/09

Report Date: 03/13/09

Expiration Date: 03/03/19

Miami-Dade County Notification No.: ATITX 08017



MIAMI-DADE COUNTY PERFORMANCE TEST REPORT

Rendered to:

EFCO CORPORATION
1000 County Road
Monett, Missouri 65708

Report No.: 87165.01-801-18
Test Dates: 02/12/09
Through: 03/03/09
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Project Summary: Architectural Testing, Inc. was contracted by EFCO Corporation to perform testing per Florida Building Code, Test Protocols for High Velocity Hurricane Zone, Protocols TAS 201-94, TAS 202-94 and TAS 203-94 on seven Series/Model 6621, thermally improved aluminum fixed windows. Test Specimens #1 through #3 met the performance requirements set forth in protocols TAS 201-94 and TAS 203-94 for a ± 80.0 psf *Design Pressure* rating. Specimens #4 through #6 met the performance requirements set forth in protocols TAS 201-94 and TAS 203-94 for a minimum ± 70.0 psf *Design Pressure* rating. Specimen #7 met the performance requirements set forth in protocol TAS 202-94 for a ± 80.0 psf *Design Pressure* rating. Test specimen description and results are reported herein. The samples were provided by the client.

Test Procedures: The test specimens were evaluated in accordance with the following:

TAS 201-94, *Impact Test Procedures.*

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

TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.*

Drawing Reference: The test specimen drawings have been reviewed and verified by Architectural Testing and are representative of the samples tested.

Test Specimen Description:

Series/Model: 6621

Product Type: Thermally Improved Aluminum Fixed Window

Overall Size: 60" wide by 99" high

Rough Opening Size: 60-1/2" wide by 99-1/2" high

Fixed Daylight Opening Size: 55-3/8" wide by 94-3/8"

Overall Area: 41.25 ft²

Finish: White painted aluminum

Glazing Details: Units #1 through #3 and #7 were glazed using laminated glass with an overall thickness of 9/16". Glass consisted of 0.077" thick Vanceva™ interlayer with one piece of 1/4" heat strengthened glass on each side. Unit #4 was glazed with insulating glass with 1-1/4" overall thickness and a steel reinforced spacer. There was 1/4" heat strengthened glass at the exterior, 7/16" airspace, and at the interior was laminated glass with 0.077" thick Vanceva™ interlayer with one piece of 1/4" heat strengthened glass on each side. Unit #5 was glazed using laminated glass with an overall thickness of 9/16". Glass consisted of 0.090" thick Saflex® PVB interlayer with one piece of 1/4" heat strengthened glass on each side. Unit #6 was glazed with insulating glass with 1-1/4" overall thickness and a steel reinforced spacer. There was 1/4" heat strengthened glass at the exterior, 7/16" airspace, and at the interior was laminated glass with 0.090" thick Saflex® PVB interlayer with one piece of 1/4" heat strengthened glass on each side. Each unit was interior glazed against a back bedding compound at the exterior. An aluminum glazing stop was at the interior and secured with a sealant compound and #8 x 3/4" Phillips pan head self-tapping screws. Screws were located at 4" on center from outer frame corners with the remaining at 13" on center spacing at the head and sill and 5-1/2" on center from outer frame corners with the remaining at 15" on center spacing on the jambs. A snap-in aluminum glazing bead with vinyl bulb was located at the interior and secured against the glass. All units were glazed with Bondaflex® SIL 295. Glazing bite on all units was 1".

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>	<u>Joinery</u>	<u>Method</u>
0.187" x 0.250" vinyl bulb	4 Rows	Top of glazing stop against fixed lite	Kerf	Staked

Test Specimen Description: (Continued)

Frame Construction: All frame and retaining members were formed from extruded aluminum members. The frame members were thermally improved. Frame corners were milled and mechanically assembled using two #8 x 1" pan head Phillips screws at each corner. Sealant was applied to screw heads, bosses, and exterior/interior corners. The sill and jamb thermal break had sealant applied over it at the interior. The sealant was applied full length of sill and 7" up the jamb thermal break from bottom outer frame corners. Anchor F-clips were secured to the frame with one #8 x 3/4" Phillips head self-tapping screw through the interior leg of the frame. F-clip spacing on frame was 4-1/2" from outer corners on jambs with 10" on center spacing thereafter. And, 12" from the corners and 12" on center spacing at head and sill.

Hardware: No hardware was utilized.

Drainage: No drainage was utilized.

Reinforcement: No reinforcement was utilized.

Installation: The unit was installed into a Hem-Fir test buck using the 2" by 4-1/4" aluminum anchor F-clips. Each anchor clip was secured to the test buck with two 1/4" x 1-1/4" screws. The unit was sealed into the buck full perimeter at exterior.

Test Results: The following results have been recorded:

Protocol TAS 202-94, Static Air Pressure Tests

Test Unit #7 (9/16" Vanceva)

Design Pressure: ± 80.0 psf

Title of Test	Results		
Air Infiltration			
1.57 psf (25 mph)	<0.01 cfm/ft ²		
6.24 psf (50 mph)	<0.01 cfm/ft ²		
Structural Loads	Indicator Readings (inch)		
	#1	#2	#3
50% of Test Pressure (+60.0 psf)			
Maximum Deflection	0.06	0.05	0.06
Permanent Set	0.01	0.01	0.01
Design Pressure (+80.0 psf)			
Maximum Deflection	0.09	0.07	0.08
Permanent Set	0.01	0.01	0.01
50% of Test Pressure (-60.0 psf)			
Maximum Deflection	0.09	0.08	0.09
Permanent Set	0.01	0.01	0.01
Design Pressure (-80.0 psf)			
Maximum Deflection	0.12	0.11	0.12
Permanent Set	0.02	0.02	0.02
Water Infiltration			
15% Positive Design Pressure (+12.0 psf)	No Penetration		
Test Pressure (+120.0 psf)			
Maximum Deflection	0.11	0.09	0.09
Permanent Set	0.02	0.02	0.02
Test Pressure (-120.0 psf)			
Maximum Deflection	0.21	0.20	0.19
Permanent Set	0.02	0.03	0.03
Forced Entry - ASTM F 588-97 Test	Pass		

Note: See Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 16 ft.

Test Unit #1

Impact #1: Missile Velocity: 50.5 fps

Impact Area: Center of glass

Observations: No rupture, no penetration

Results: Pass

Impact #2: Missile Velocity: 50.3 fps

Impact Area: Top right corner of glass

Observations: No rupture, no penetration

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #1

Design Pressure: ± 80.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
16 to 40	3500	1.68	0.06	0.07	0.04
0 to 48	300	2.11	0.07	0.07	0.05
40 to 64	600	1.54	0.09	0.11	0.09
24 to 80	100	2.29	0.11	0.12	0.12
			Permanent Set (inch)		
			0.02	0.01	<0.01

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
24 to 80	50	2.01	0.05	0.06	<0.01
40 to 64	1050	1.75	0.07	0.08	0.02
0 to 48	50	2.23	0.08	0.08	0.02
16 to 40	3350	2.08	0.07	0.08	0.02
			Permanent Set (inch)		
			<0.01	0.01	<0.01

Observations: No rupture, no penetration

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 16 ft.

Test Unit #2

Impact #1: Missile Velocity: 50.3 fps

Impact Area: Bottom left corner of glass

Observations: No rupture, no penetration

Results: Pass

Impact #2: Missile Velocity: 50.2 fps

Impact Area: Center of glass

Observations: No rupture, no penetration

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #2

Design Pressure: ± 80.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
16 to 40	3500	1.77	0.06	0.09	0.09
0 to 48	300	2.34	0.06	0.09	0.10
40 to 64	600	1.81	0.07	0.11	0.12
24 to 80	100	2.14	0.12	0.21	0.21
			Permanent Set (inch)		
			0.06	0.09	0.09

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
24 to 80	50	2.12	0.04	0.01	0.03
40 to 64	1050	1.32	0.05	0.03	0.05
0 to 48	50	2.91	0.06	0.04	0.05
16 to 40	3350	1.60	0.06	0.04	0.06
			Permanent Set (inch)		
			0.04	0.02	0.04

Observations: No rupture, no penetration

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 16 ft.

Test Unit #3

Impact #1: Missile Velocity: 50.1 fps

Impact Area: Top right corner of glass

Observations: 1/16" by 1" tear

Results: Pass

Impact #2: Missile Velocity: 50.3 fps

Impact Area: Center of glass

Observations: No rupture, no penetration

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #3

Design Pressure: ± 80.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
16 to 40	3500	1.81	0.06	0.10	0.11
0 to 48	300	2.79	0.07	0.12	0.12
40 to 64	600	1.98	0.09	0.13	0.14
24 to 80	100	2.28	0.12	0.16	0.16
			Permanent Set (inch)		
			0.01	0.01	0.01

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
24 to 80	50	2.28	0.18	0.17	0.18
40 to 64	1050	2.13	0.14	0.14	0.14
0 to 48	50	2.66	0.10	0.10	0.10
16 to 40	3350	1.63	0.06	0.07	0.06
			Permanent Set (inch)		
			0.02	0.02	0.01

Observations: No rupture, no penetration

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 16 ft.

Test Unit #4

Impact #1: Missile Velocity: 50.7 fps

Impact Area: Center of glass

Observations: No rupture, no penetration

Results: Pass

Impact #2: Missile Velocity: 50.6 fps

Impact Area: Top right corner of glass

Observations: No rupture, no penetration

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #4

Design Pressure: ± 90.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
18 to 45	3500	1.91	0.06	0.05	0.06
0 to 54	300	2.49	0.06	0.05	0.07
45 to 72	600	1.90	0.10	0.08	0.09
27 to 90	100	2.29	0.12	0.11	0.11
			Permanent Set (inch)		
			0.01	0.02	0.01

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
27 to 90	50	2.68	0.13	0.15	0.17
45 to 72	1050	1.35	0.12	0.12	0.13
0 to 54	50	3.00	0.12	0.13	0.13
18 to 45	3350	2.03	0.11	0.12	0.12
			Permanent Set (inch)		
			0.02	0.02	0.02

Observations: No rupture, no penetration

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 16 ft.

Test Unit #5

Impact #1: Missile Velocity: 50.1 fps

Impact Area: Center of glass

Observations: No rupture, no penetration

Results: Pass

Impact #2: Missile Velocity: 50.0 fps

Impact Area: Top right corner of glass

Observations: 1/2" by 1/8" tear

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #5

Design Pressure: ± 70.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
14 to 35	3500	1.57	0.11	0.12	0.11
0 to 42	300	2.87	0.13	0.14	0.13
35 to 56	600	1.64	0.16	0.18	0.15
21 to 70	100	2.27	0.18	0.20	0.13
			Permanent Set (inch)		
			0.05	0.06	0.05

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
21 to 70	50	2.82	0.27	0.27	0.20
35 to 56	1050	2.14	0.18	0.15	0.16
0 to 42	50	2.89	0.14	0.13	0.15
14 to 35	3350	1.91	0.15	0.18	0.14
			Permanent Set (inch)		
			0.04	0.04	0.01

Observations: No rupture, no penetration

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 16 ft.

Test Unit #6

Impact #1: Missile Velocity: 50.9 fps

Impact Area: Center of glass

Observations: No rupture, no penetration

Results: Pass

Impact #2: Missile Velocity: 50.2 fps

Impact Area: Top right corner of glass

Observations: No rupture, no penetration

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #6

Design Pressure: ± 70.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
14 to 35	3500	1.56	0.26	0.33	0.20
0 to 42	300	2.38	0.27	0.33	0.22
35 to 56	600	1.28	0.28	0.34	0.22
21 to 70	100	2.77	0.33	0.38	0.33
			Permanent Set (inch)		
			0.08	0.11	0.11

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
21 to 70	50	1.97	0.13	0.14	0.13
35 to 56	1050	1.09	0.12	0.12	0.12
0 to 42	50	2.42	0.10	0.10	0.09
14 to 35	3350	1.10	0.08	0.08	0.07
			Permanent Set (inch)		
			0.02	0.02	0.03

Observations: No rupture, no penetration

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Equipment:

Cannon: Steel pipe barrel utilizing compressed air to propel the missile

Missile: 2x4 Southern Pine

Timing Device: Electronic Beam Type

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure measuring device

Deflection Measuring Device: Linear transducers and 1" dial indicators

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 201-94 met the requirements of Section 1626 of the Florida Building Code.

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

Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code.

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.

Testing was conducted at the Architectural Testing, Inc. laboratory located in Southlake, Texas.

List of Official Observers:

<u>Name</u>	<u>Company</u>
Andy Cost	Architectural Testing, Inc.
Brad Christopher	Architectural Testing, Inc.
Joseph A. Reed, P.E.	Architectural Testing, Inc.
Tom Klein	Architectural Testing, Inc.

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of ten years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire.

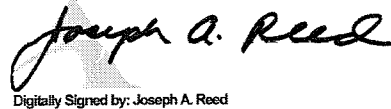
Results obtained are tested values and were secured by using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.



Digitally Signed by: Tom Klein

Tom Klein
Test Technician



Digitally Signed by: Joseph A. Reed

Joseph A. Reed, P.E.
Director – Engineering and Product Testing

TK:ac/cmd

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

Appendix-A: Sketch (1)

Appendix-B: Drawings (10)

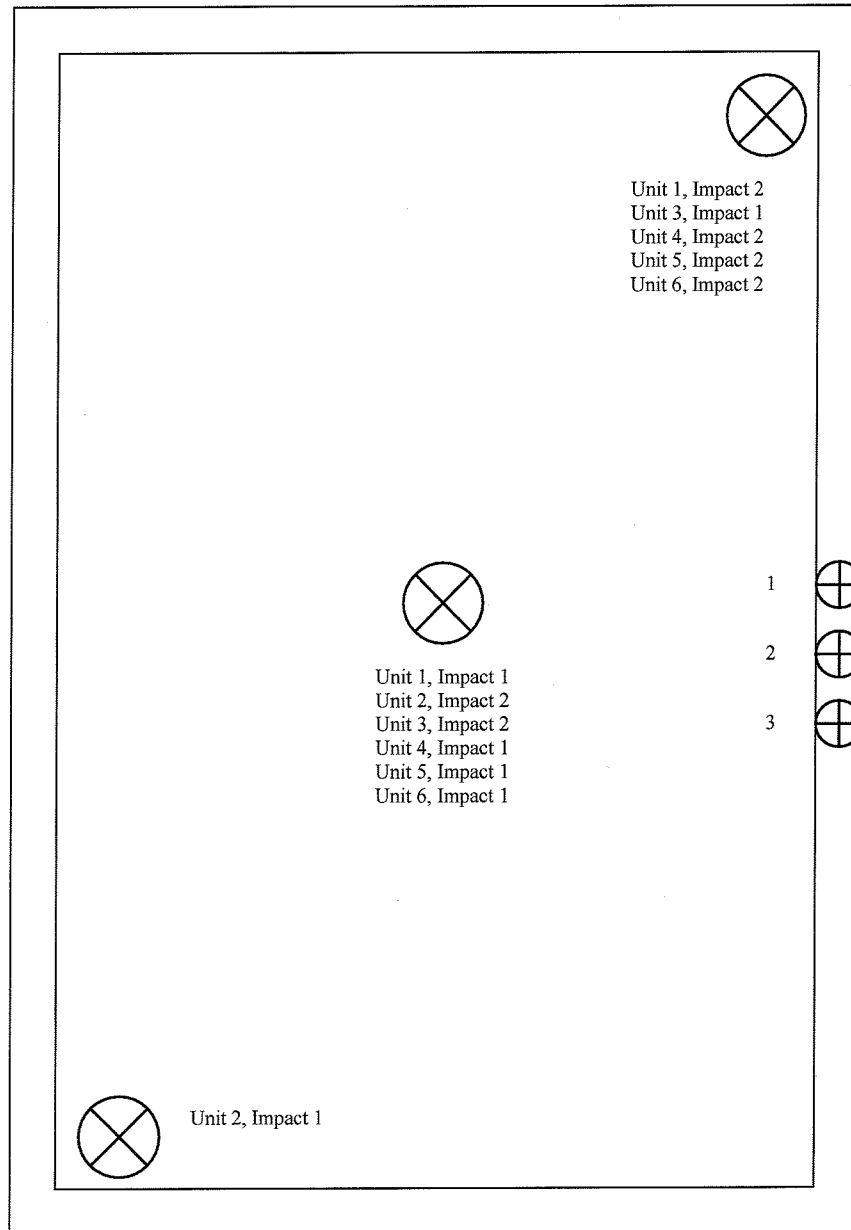
Revision Log

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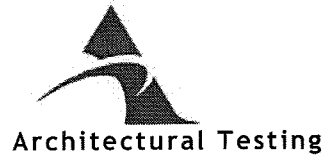
Appendix A

Sketch

Architectural Testing Sketch #1



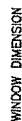
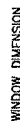
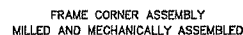
 = Linear Transducers  = Impacts



87165.01-801-18

Appendix B

Drawings

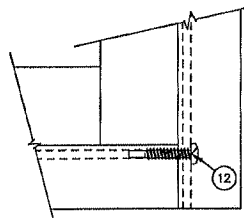


 **Architectural Testing**

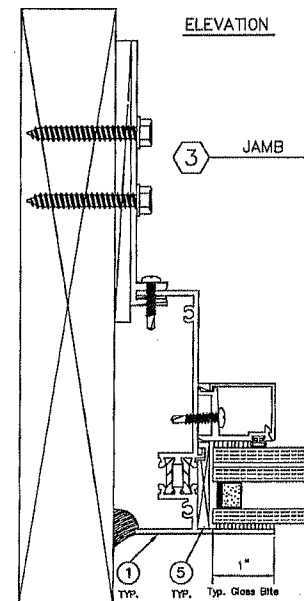
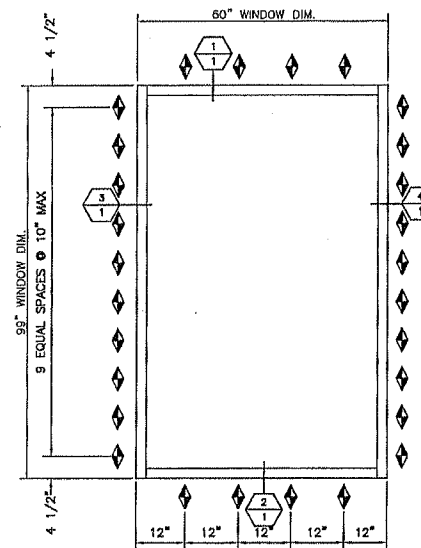
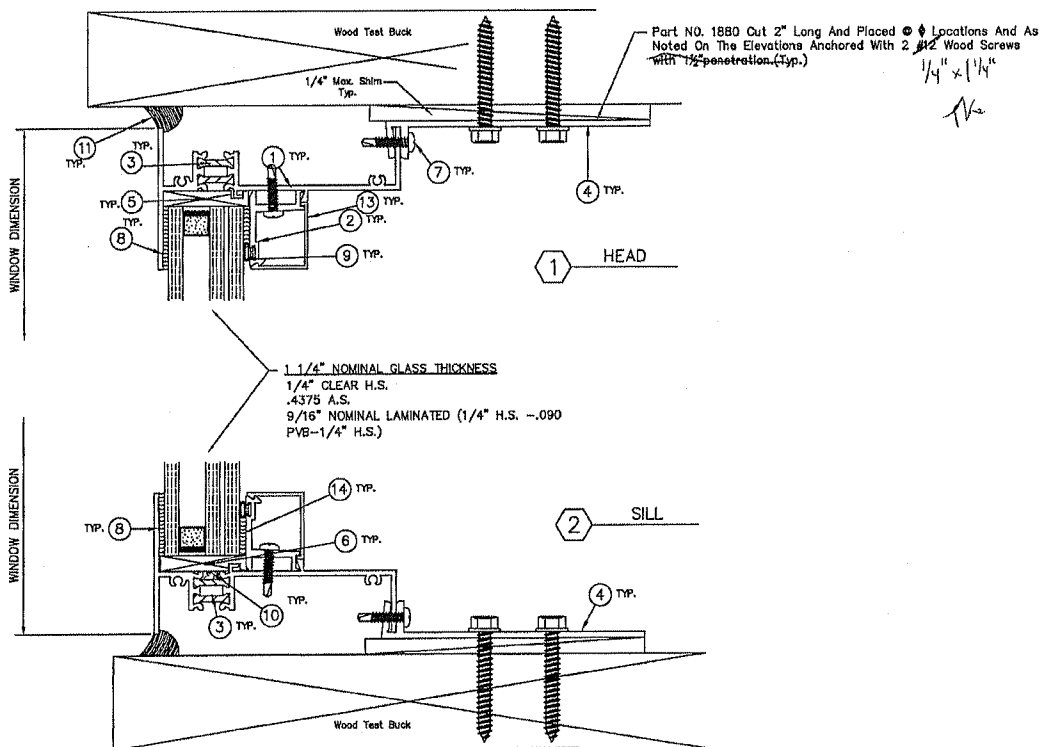
Test sample complies with these details.
Deviations are noted.

Report# 87165
Date 3/5/69 Tech PL

* DENOTES LOCK LOCATION
 DENOTES ANCHOR LOCATION

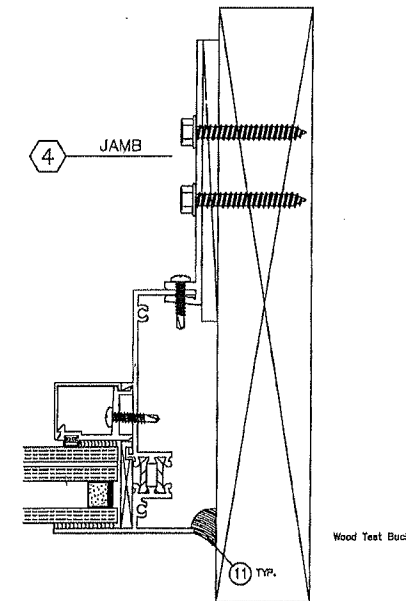


FRAME CORNER ASSEMBLY
MILLED AND MECHANICALLY ASSEMBLED



ITEM	# REQD	PART #	DESCRIPTION	MFG.
1	4	IF75	FRAME	EFCO
2	4	14R9	Glazing Stop	EFCO
3	AS REQD		1 STRUT	
4	AS REQD	1880	F-ANCHOR 2" LONG	EFCO
5	4	HN40	1/4" Setting Block	REED
6	4	HN41	1/4" Glazing Block	REED
7	AS REQD	STK0	#8X3/4" TEK SCREW	
8	AS REQD	JJ66	Back Bedding (295MB)	Bondaflex
9	AS REQD	WA09	BEAD VINYL	GENERAL PLASTICS
10	AS REQD	JJ44	JOINT SEALER	
11	AS REQD	JJ61	SILICONE SEALANT	Bondaflex
12	8	SLO2		
13	4	14S0	Glazing Stop Cover	EFCO
14	AS REQD	JJ61	Silicone (295M)	Bondaflex
15				
16				

Architectural Testing
Test sample complies with these details.
Deviations are noted.
Report# 87165
Date 3/5/09 Tech Jlu



* DENOTES LOCK LOCATION
♦ DENOTES ANCHOR LOCATION

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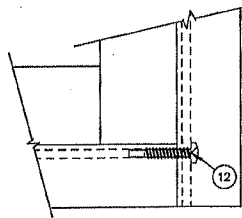
DRAWN BY MESS CHECKED BY SCALE FULL REV.
DATE 5-20-2008 DATE



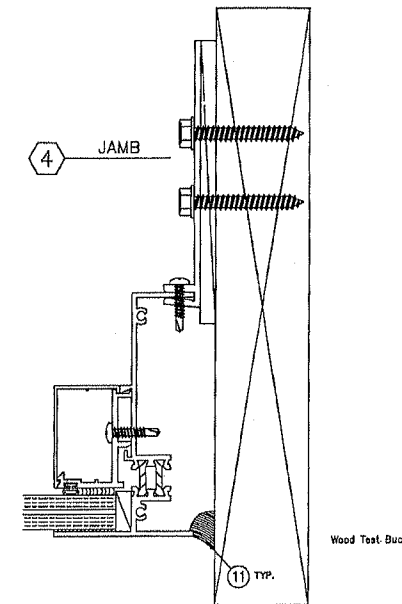
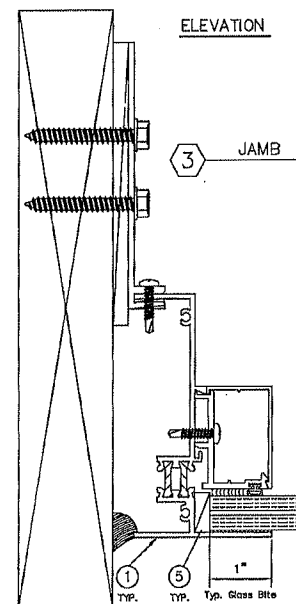
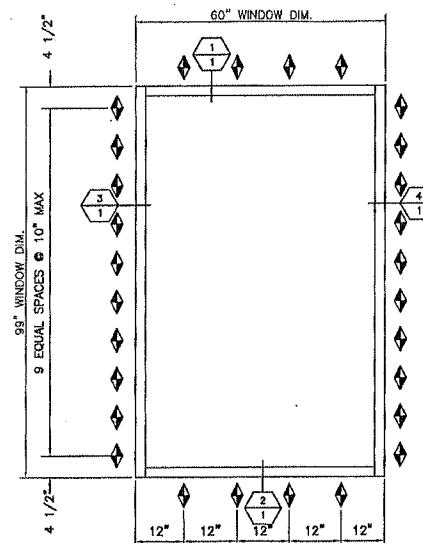
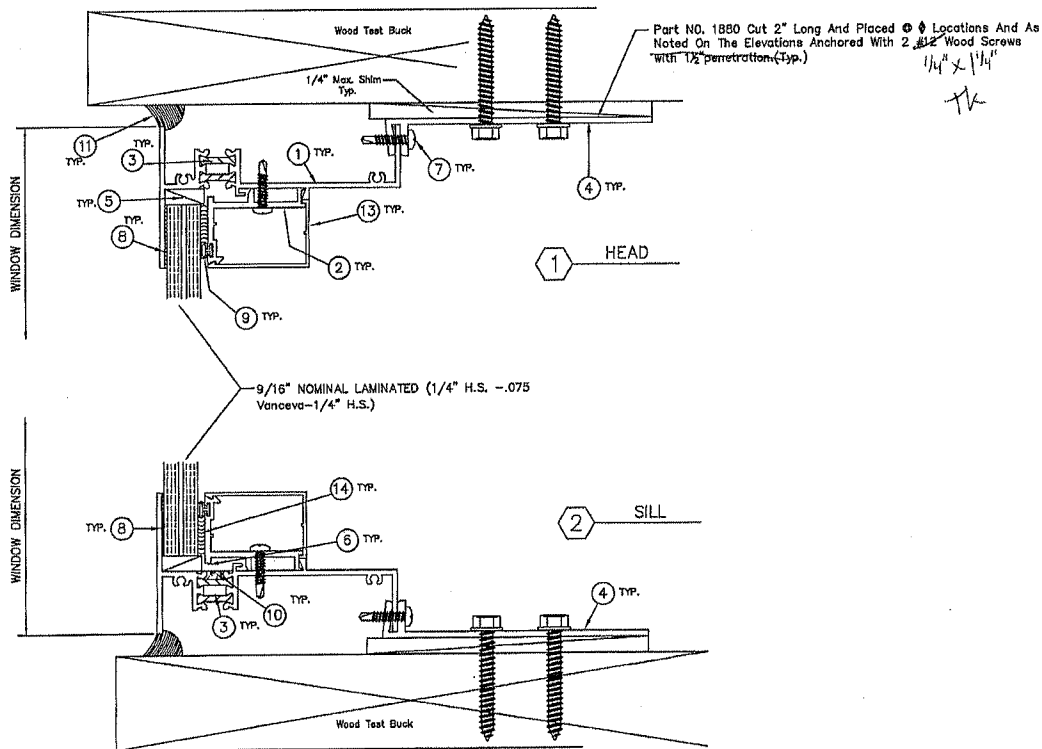
EFCO CORPORATION
1000 County Road - Monett, Missouri 65708

6621 FIXED WINDOW
LARGE MISSIF - PVR

REPORT# XXXX-XXX-XX SHEET 1 OF 1



FRAME CORNER ASSEMBLY
MILLED AND MECHANICALLY ASSEMBLED



ITEM	# REQD	PART #	DESCRIPTION	MFG.
1	4	IF75	FRAME	EFCO
2	4	1B25	Glazing Stop	EFCO
3	AS REQD		1 STRUT	
4	AS REQD	1B80	F-ANCHOR 2\"	EFCO
5	4	HN15	1/4\"	REED
6	4	HEQ5	1/4\"	REED
7	AS REQD	STK0	#8X3/4\"	
8	AS REQD	JJ66	Back Bedding (295MB)	Bondaflex
9	AS REQD	WA09	BEAD VINYL	CENTRAL PLASTICS
10	AS REQD	JJ44	JOINT SEALER	
11	AS REQD	JJ61	SILICONE SEALANT	Bondaflex
12	8	SLQ2		
13	4	1B26	Glazing Stop Cover	EFCO
14	AS REQD	JJ61	Silicone (295M)	Bondaflex
15				
16				

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 87165
Date 3/5/09 Tech Th

* DENOTES LOCK LOCATION
♦ DENOTES ANCHOR LOCATION

DRAWN BY MESS CHECKED BY SCALE FULL REV.
DATE 5-29-2008 DATE

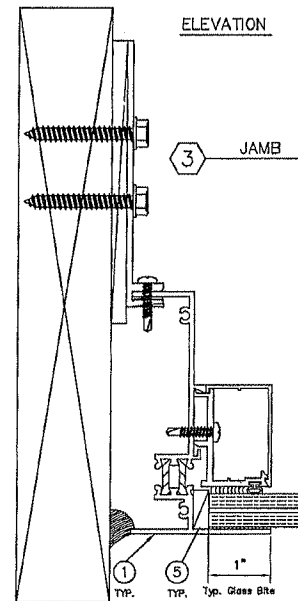
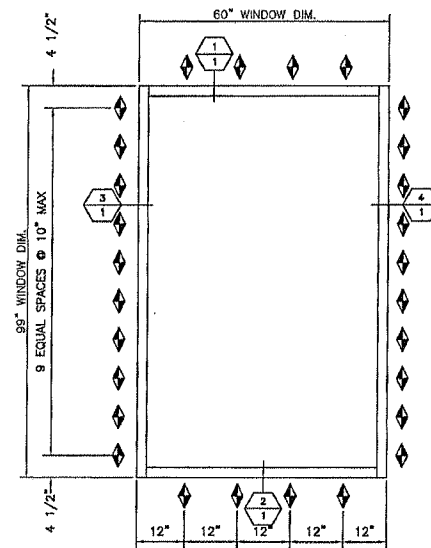
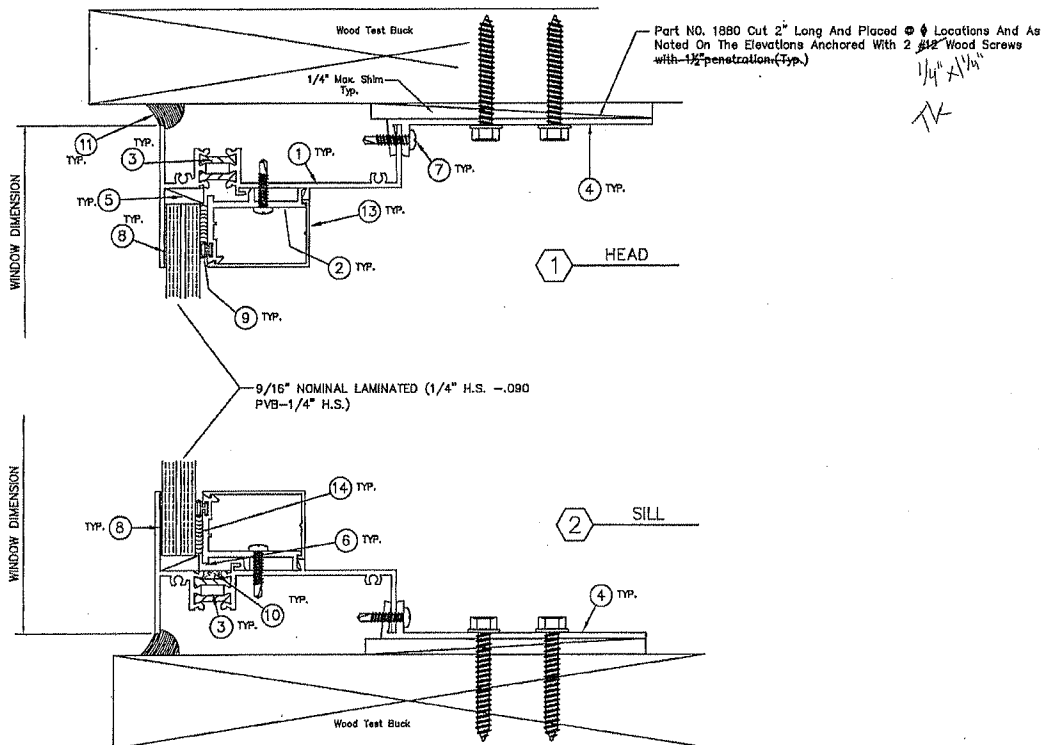
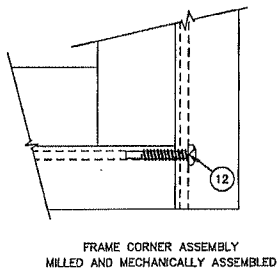


EFCO CORPORATION
1000 County Road - Monett, Missouri 65708

6621 FIXED WINDOW
LARGE MISSIF - Vanceva

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REPORT# XXXX-XXX-XX SHEET 1 OF 1



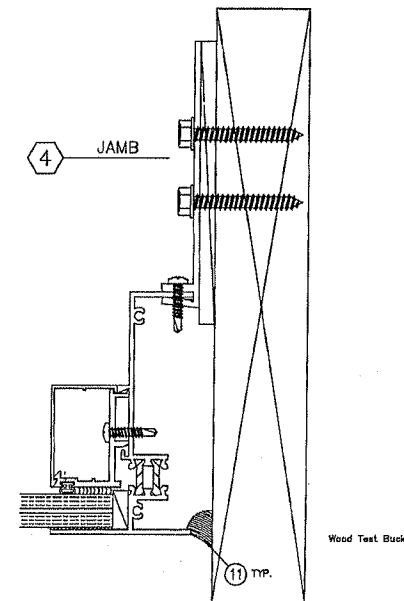
ITEM	# REQD	PART #	DESCRIPTION	MFG.
1	4	IF75	FRAME	EFCO
2	4	1BZ5	Glazing Stop	EFCO
3	AS REQD		I STRUT	
4	AS REQD	1880	F-ANCHOR 2\" LONG	EFCO
5	4	HN15	1/4\" Setting Block	REED
6	4	HEQ5	1/4\" Glazing Block	REED
7	AS REQD	STK0	#8X3/4\" TEK SCREW	
8	AS REQD	JJ66	Back Bedding (295MB)	Bondaflex
9	AS REQD	WA09	BEAD VINYL	SERIAL PLASTICS
10	AS REQD	JJ44	JOINT SEALER	
11	AS REQD	JJ61	SILICONE SEALANT	Bondaflex
12	8	SLQ2		
13	4	1BZ6	Glazing Stop Cover	EFCO
14	AS REQD	JJ61	Silicone (295M)	Bondaflex
15				
16				



Test sample complies with these details.
Deviations are noted.

Report# 87165

Date 3/5/09 Tech *th*



* DENOTES LOCK LOCATION
♦ DENOTES ANCHOR LOCATION

DRAWN BY MESS CHECKED BY SCALE FULL REV.
DATE 6-20-2008 DATE



EFCO CORPORATION
1000 Country Road - Monett, Missouri 65208

6621 FIXED WINDOW
LARGE GLASS UNIT

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REPORT# XXXX-XXX-XX SHEET 1 OF 1

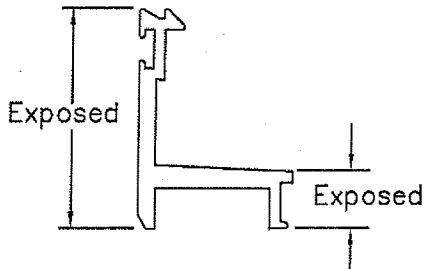
STD. EXTRUSION TOLERANCES AS DEFINED BY
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STATED. CORNER RADII .015 EXCEPT AS NOTED.



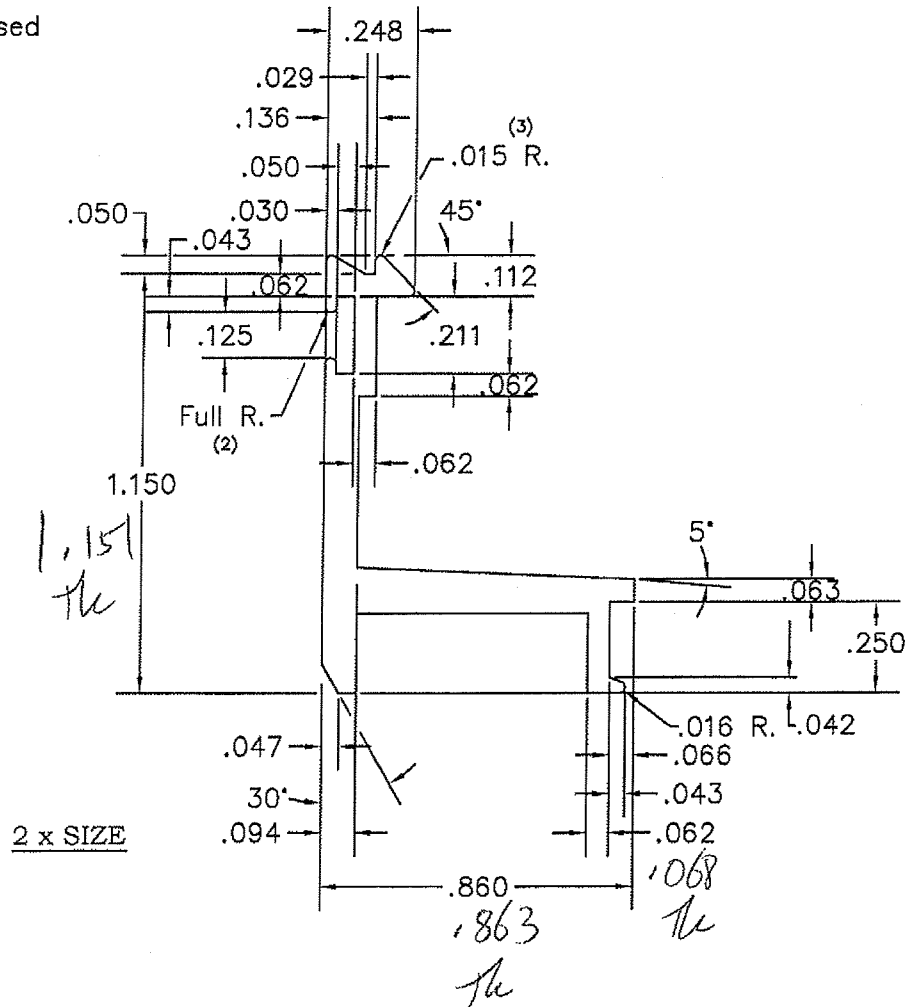
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 87165
Date 3/5/09 Tech TRH



ACTUAL SIZE



2 x SIZE

DO NOT SCALE PRINT

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MATERIAL: 6063-T6 ALUM.

WALL THICKNESS: .094 & AS NOTED

TOTAL PERIMETER: 5.157

Painted PERIMETER: 1.951

AREA: .217

WT/FT: .260

FACTOR: .00



EFCO CORPORATION
1000 County Road
Monett, Missouri 65708
1-800-221-4169
Fax: 417-225-7212

DRAWN BY: TRH

DATE: 10-6-06

APPROVED: TRH

DATE: 10-6-06

SERIES: 6621

TITLE: Glazing Stop

REVISIONS W/ DATES:

- ① Redesign Shape T.H. 10-5-06
- ② Added Exposed Surface T.H. 10-14-08

SCALE: AS NOTED

DIE CIRCLE: 2"

14R9

Re
B

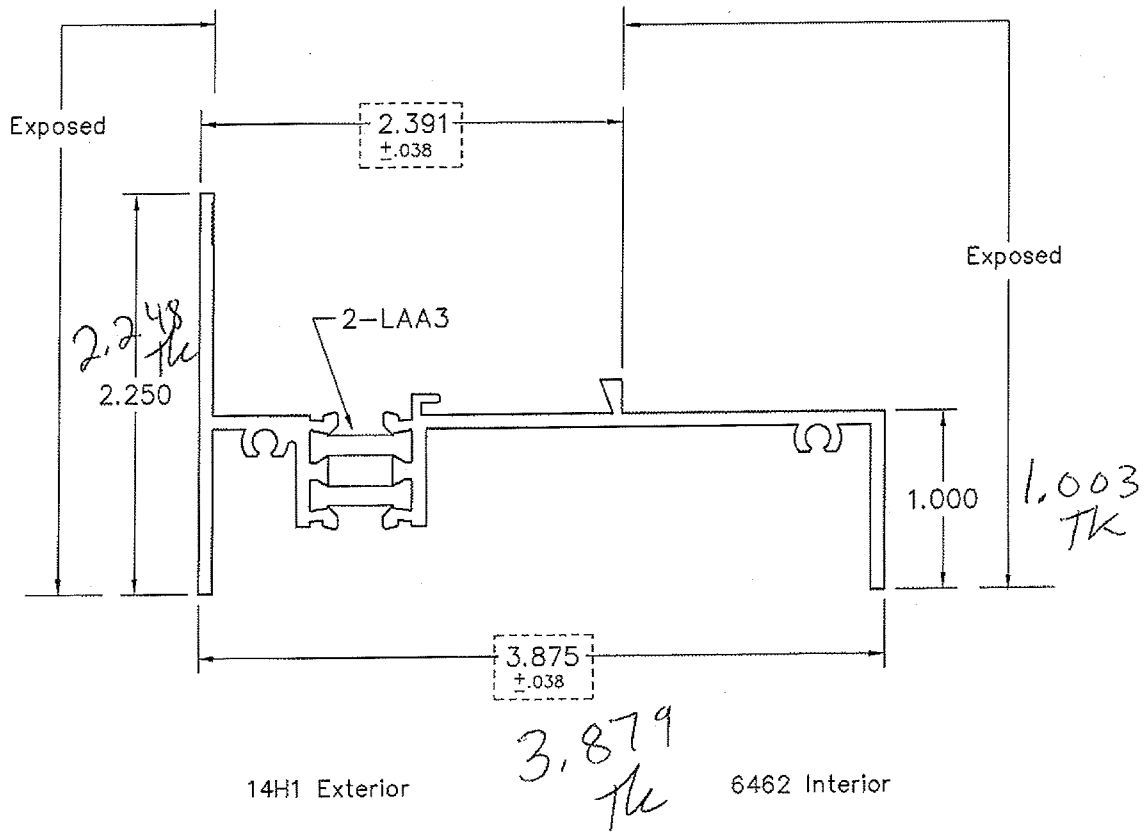
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THE ALUMINUM ASSOCIATION UNLESS OTHERWISE
STATED. CORNER RADII .015 EXCEPT AS NOTED.



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 87165
Date 3/5/09 Tech TK



1F75

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EFCO CORP.

1000 COUNTY ROAD
MONETT, MO. 65708

REVISIONS W/DATES:

DRAWN: Tim H.	Approved: Tim H.	SCALE: Full	TITLE Fixed Frame	NO. 1F75
DATE: 3-9-06	DATE: 3-9-06			

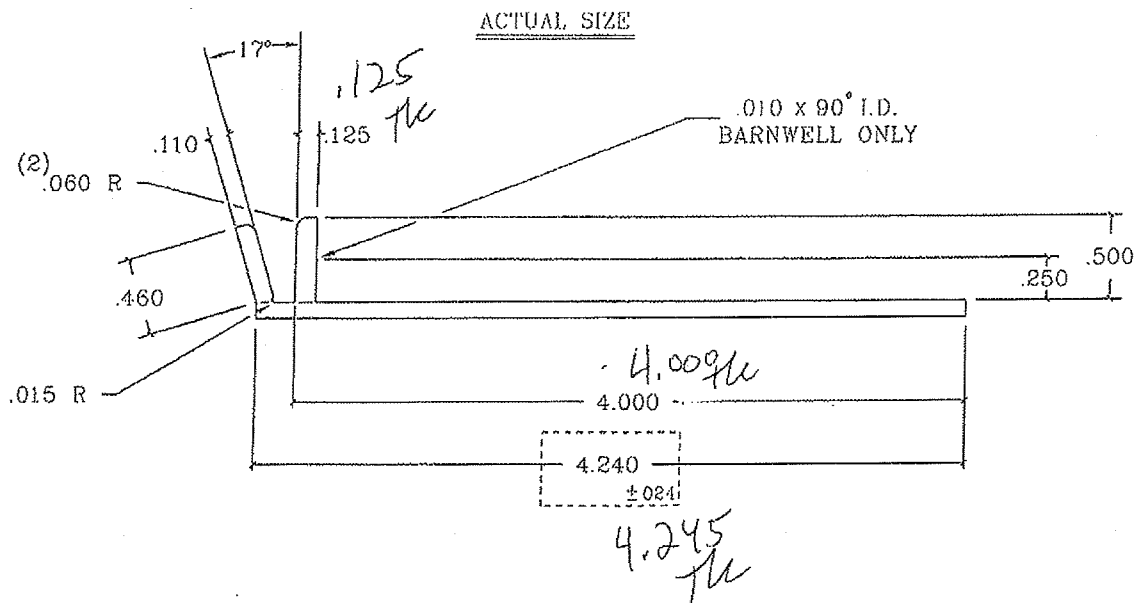
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THE ALUMINUM ASSOCIATION UNLESS OTHERWISE
STATED. CORNER RADII .015 EXCEPT AS NOTED.



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 87165
Date 3/5/09 Tech TK



NO EXPOSED SURFACES



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# _____
Date _____ Tech _____

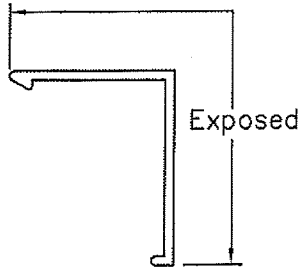
DO NOT SCALE PRINT

.010 x 90° I.D. MARK TO BE INCORPORATED
INTO DIE @ EFCO BARNWELL ONLY. EFCO
MONETT IS NOT TO HAVE I.D. MARK.

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MATERIAL: 6063-T1 ALUM.		EFCO CORP.		1000 COUNTY ROAD MONETT, MO. 65708	
WALL THICKNESS: .096 & AS NOTED					
PERIMETER: 10.586	ⓐ	K.BAKER	REVISIONS W/DATES:		
AREA: .520	A	DATE: 7-29-00	A ADDED BARNWELL I.D. NOTES & TOLERANCES, REDRAWN K.BAKER 7-29-00		
WT/FT: .624	A	APPROVED:	ORIGINAL DWN BY JOK 2-3-92		
FACTOR: 17		DATE:	SCALE: AS NOTED	DIE CIRCLE: 5"	
TITLE WINDOW CLIP			NO. 1880		

STD. EXTRUSION TOLERANCES AS DEFINED BY
THE ALUMINUM ASSOCIATION UNLESS OTHERWISE
STATED. CORNER RADII .015 EXCEPT AS NOTED.



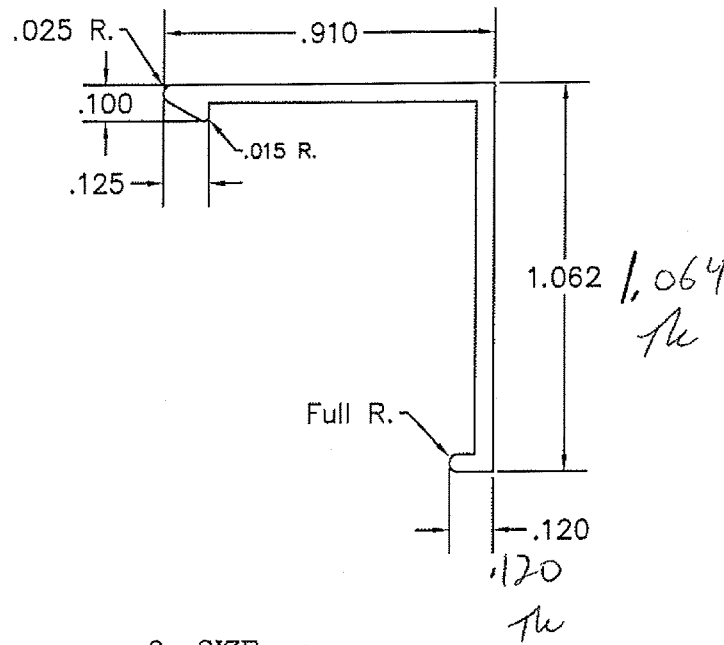
ACTUAL SIZE



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 87165
Date 3/5/09 Tech TRH



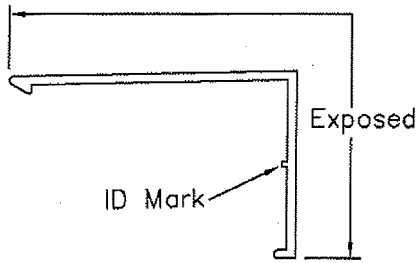
DO NOT SCALE PRINT

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MATERIAL: 6063-T6 ALUM.		DRAWN BY: TRH	REVISIONS W/ DATES:	
WALL THICKNESS: .050 & AS NOTED		DATE: 10-6-06		
TOTAL PERIMETER: 4.098		APPROVED: TRH		
Painted PERIMETER: 1.972		DATE: 10-6-06		
AREA: .102		SERIES: 6621	SCALE: AS NOTED	DIE CIRCLE: 2"
WT/FT: .122 FACTOR: 34		TITLE: Glazing Stop Cover		14S0

EFCO CORPORATION
1000 County Road
Monett, Missouri 65708
1-800-221-4169
Fax: 417-235-7313

STD. EXTRUSION TOLERANCES AS DEFINED BY THE ALUMINUM ASSOCIATION UNLESS OTHERWISE STATED. CORNER RADII .015 EXCEPT AS NOTED.



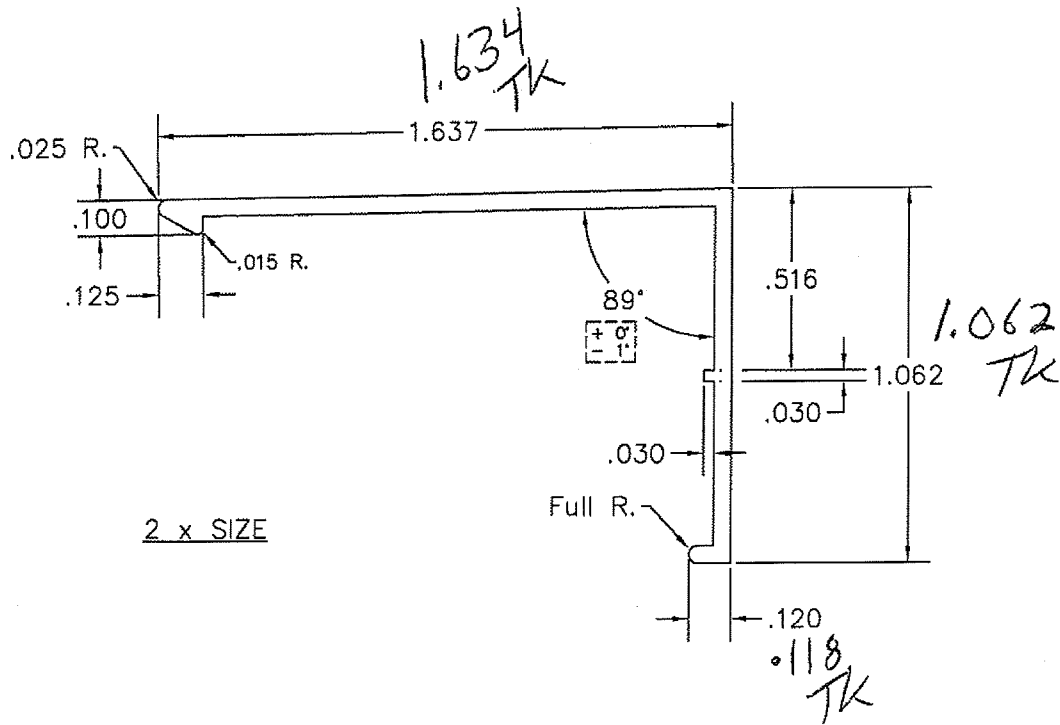
ACTUAL SIZE



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 87165
Date 3/5/09 Tech TK



2 x SIZE

DO NOT SCALE PRINT

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MATERIAL: 6063-T6 ALUM.	
WALL THICKNESS: .050 & AS NOTED	
TOTAL PERIMETER:	5.610
PAINTED PERIMETER:	2.699
AREA:	.139
WT/FT:	.167
FACTOR:	34



DRAWN BY:	TRH	REVISIONS W/ DATES:	
DATE:	3-28-08		
APPROVED:	TRH		
DATE:	3-28-08	JOB REF. NO.:	9-0593-01
SERIES:	6621	SCALE:	AS NOTED
TITLE:		DIE CIRCLE:	2"
Glazing Stop Cover		DWG NO.	18Z6

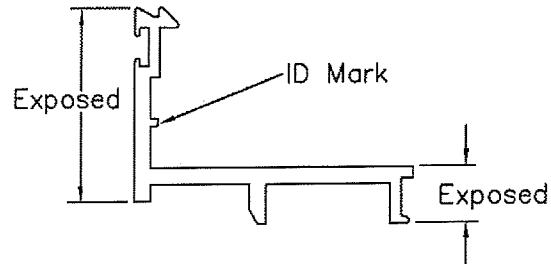
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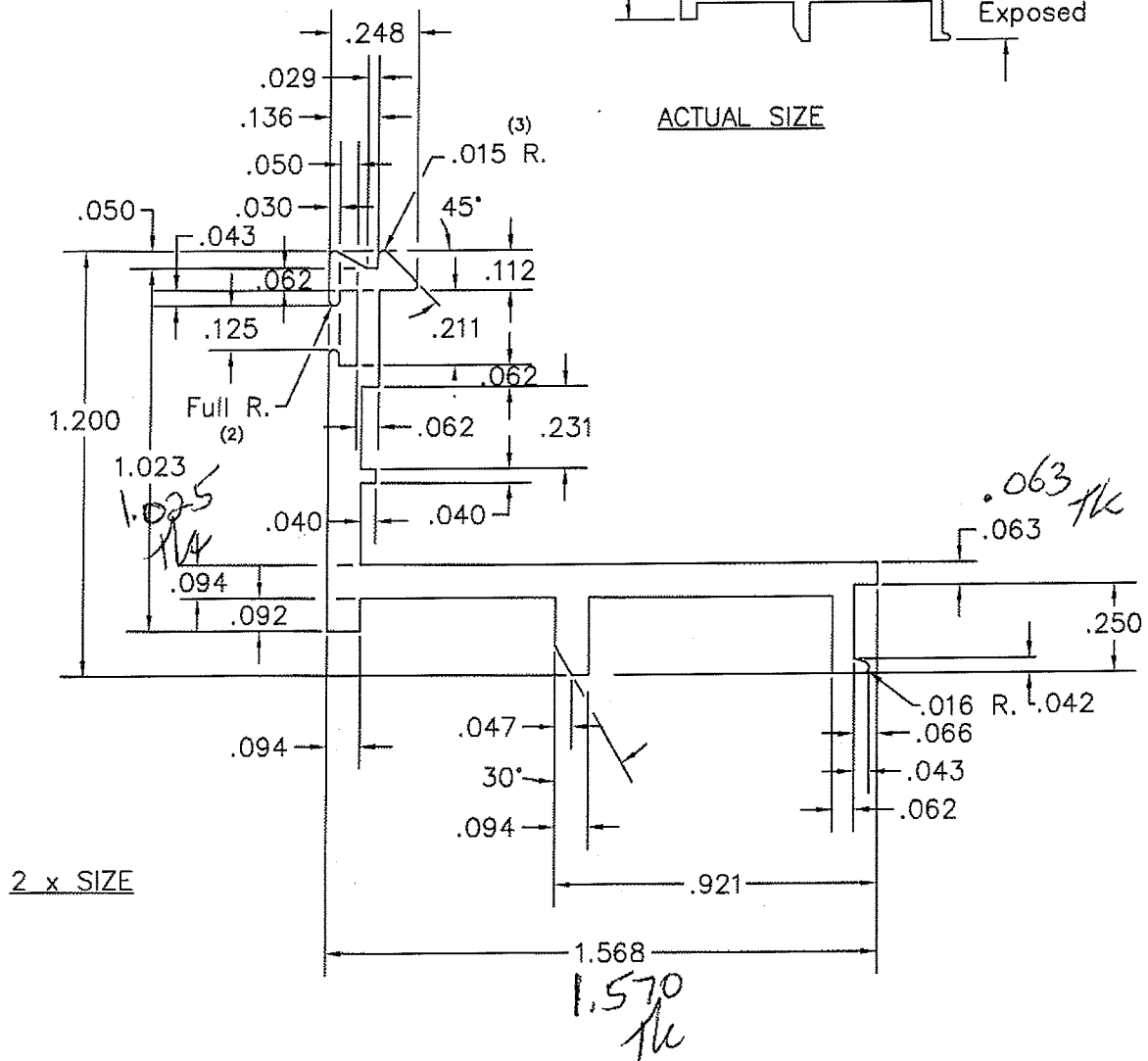
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 87165
Date 3/5/09 Tech TK



ACTUAL SIZE



2 x SIZE

DO NOT SCALE PRINT

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MATERIAL: 6063-T6 ALUM.
WALL THICKNESS: .125 & AS NOTED
TOTAL PERIMETER: 6.870
Painted PERIMETER: 1.813
WT/FT: .337
AREA: .281
FACTOR: 20



1000 County Road
Monett, Missouri 65708
1-800-221-4169
FAX: 417-235-7313

DRAWN BY: TRH	REVISIONS W/ DATES: A Added Exposed Surface T.H. 10-14-08	
DATE: 3-28-08		
APPROVED: TRH		
DATE: 3-28-08	JOB REF. NO.: 9-0593-01	
SERIES: 6621	SCALE: AS NOTED	DIE CIRCLE: 2"
TITLE: Glazing Stop		DWG NO. 1825
		Rev A