

**AAMA/WDMA/CSA 101/IS.2/A440-05
TEST REPORT**

Rendered to:

EAGLE WINDOW & DOOR COMPANY

**PRODUCT TYPE: Series 02 Axiom Clad Casement Vent 3056
SERIES/MODEL: Aluminum Clad Wood Casement
Window with Impact Glass**

Title	Summary of Results
Primary Product Designator	C-C65 914 x 1676 (36 x 66)
Design Pressure	3120 Pa (65.0 psf)
Operating Force (in motion)	13 N (3.0 lbf)
Air Infiltration	<0.05 L/s/m ² (<0.01 cfm/ft ²)
Water Penetration Resistance Test Pressure	510 Pa (10.5 psf)
Uniform Load Structural Test Pressure	±4680 Pa (±97.5 psf)
Forced Entry Resistance	Grade 10

Test Completion Date: 05/16/07

Reference must be made to Report No. 73104.01-201-44, dated 07/11/07 for complete test specimen description and data.

AAMA/WDMA/CSA 101/I.S.2/A440-05 TEST REPORT

Rendered to:

EAGLE WINDOW & DOOR, INC.
2045 Kerper Boulevard
Dubuque, Iowa 52004-1072

Report No.: 73104.01-201-44
Test Dates: 05/14/07
Through: 05/16/07
Report Date: 07/11/07
Expiration Date: 05/14/11

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Eagle Window & Door to perform testing on Series 02 Axiom Clad Casement Vent 3056, Aluminum Clad Wood Casement window with impact glass. The sample tested successfully met the performance requirements for a C-C65 914 x 1676 (36 x 66) rating. Test specimen description and results are reported herein. The sample was provided by the client.

Test Specification: The test specimen was evaluated in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights*.

Test Specimen Description:

Series/Model: Series 02 Axiom Clad Casement Vent 3056

Type: Aluminum Clad Casement Wood Window with Impact Glass

Overall Size: 914 mm (36") wide by 1676 mm (66") high

Sash Size: 876 mm (34-1/2") wide by 1638 mm (64-1/2") high

Area: 1.5 m² (16.5 ft²)

Finish: Exterior cladding was painted; interior wood was natural.

Frame Construction: The wood frame was comprised of laminated veneer lumber with corners square-cut, butted, sealed with silicone and secured with two 11 mm (7/16") by 38 mm (1-1/2") staples per corner. Extruded aluminum cladding was slip-fit over the wood frame members with the corners miter-cut, sealed with silicone and secured with a nylon corner key and two #6 by 11 mm (7/16") screws per corner.

Test Specimen Description: (Continued)

Sash Construction: Sash corners utilized mortise-and-tenon construction secured with glue and one #7 by 32 mm (1-1/4") screw per corner. Extruded aluminum cladding was slip-fit over the wood sash members with the corners miter-cut, sealed with silicone and secured with a nylon corner key and one #5 by 38 mm (1-1/2") screw per corner.

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
TPE bulb weatherstrip	1 Row	Lock stile and top rail
5 mm (3/16") by 3 mm (1/8") closed-cell foam tape	1 Row	Back side of piano hinge
One-piece foam-filled TPE weatherstrip	1 Row	Interior frame stop perimeter

Glazing Details: The window utilized a nominal 19 mm (3/4") thick insulating glass unit fabricated from one nominal 3 mm (1/8") sheet of heat strengthened glass and one laminated sheet of glass separated by a desiccant-filled aluminum box spacer system. The laminated glass was comprised of two nominal 3 mm (1/8") annealed sheets with a 2 mm (0.090") SGP interlayer. The glass was set from the interior against a hot-melt glazing sealant and back-filled with silicone. Wood glazing stops with single-sided adhesive foam tape were utilized on the interior and secured with 32 mm (1-1/4") brad nails spaced 25 mm (1") from each corner and 152 mm (6") to 203 mm (8") on center.

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Stainless steel piano hinge	1	Continuous length on hinge side
Single-bar actuator with lock and keepers	3	292 mm (11-1/2") and 1314 mm (51-3/4") from the bottom of the sash
Casement roto-operator	1	Sill

Installation: The window was installed within a wood test buck. The window was anchored to the buck with #10 by 64 mm (2-1/2") wood screws. The screws were located 152 mm (6") from each corner and spaced 305 mm (12") on center. Silicone sealant was used to seal the window to the test buck.

Test Results: The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
5.3.1	Operating Force per ASTM E 2068		
	Open		
	Initiate motion	32 N (7.3 lbf)	--
	Maintain motion	13 N (3.0 lbf)	30 N (7.0 lbf)
	Close		
	Initiate motion	21 N (4.7 lbf)	--
	Maintain motion	13 N (3.0 lbf)	30 N (7.0 lbf)
	Latches	22 N (5.0 lbf)	100 N (22.5 lbf)
5.3.2	Air Leakage Resistance per ASTM E 283		
	75 Pa (1.6 psf)	<0.05 L/s/m ² (<0.01 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ² max.)
	300 Pa (6.2 psf)	0.05 L/s/m ² (0.01 cfm/ft ²)	-- --

Note #1: *The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440-05 for air leakage resistance.*

5.3.3	Water Penetration Resistance per ASTM E 547 and E 331	(See Note #2)
5.3.4.2	Uniform Load Deflection per ASTM E 330	(See Note #2)
5.3.4.3	Uniform Load Structural per ASTM E 330	(See Note #2)

Note #2: *The client opted to start at a pressure higher than the minimum required. Those results are listed under "Optional Performance".*

5.3.5	Forced Entry Resistance per ASTM F 588		
	Type: B	Grade: 10	
	Test B1 through B3	No entry	No entry
	Lock Hardware Manipulation Test	No entry	No entry
	Sash/Panel Manipulation Test	No entry	No entry

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
5.3.6.4.3	Sash Vertical Deflection Test** 270 N (60 lbf)	1.02 mm (0.04")	18 mm (0.69") max.
5.3.6.6.2	Distributed Load Test** 300 Pa (6.2 psf)	No damage	No damage

Optional Performance

4.4.2.6	Water Penetration Resistance per ASTM E 547 and E 331 510 Pa (10.5 psf)	No leakage	No leakage
4.4.2.6	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the sash stile between lock points) (Loads were held for 60 seconds)		
	3120 Pa (65.0 psf) (positive)	0.76 mm (0.03")	See Note #3
	3120 Pa (65.0 psf) (negative)	3.30 mm (0.13")	See Note #3

Note #3: *The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440-05 for this product designation. The deflection data is recorded in this report for special code compliance and information only.*

4.4.2.6	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the sash stile between lock points) (Loads were held for 10 seconds)		
	4680 Pa (97.5 psf) (positive)	<0.25 mm (<0.01")	6.60 mm (0.26") max.
	4680 Pa (97.5 psf) (negative)	<0.25 mm (<0.01")	6.60 mm (0.26") max.

Drawing Reference: The test specimen drawings have been reviewed by ATI and are representative of the test specimen reported herein.

**Results were taken from a larger window of similar construction tested 05/14/07; please see Architectural Testing, Inc. test report 73103.01-201-44

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 four 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 specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.

Eric J. Schoenthaler
Project Manager

Daniel A. Johnson
Director - Regional Operations

EJS:mb

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

Appendix-A: Alteration Addendum (1)

Appendix-B: WDMA Submittal Forms (2)

Appendix C: Drawings (19)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	07/11/07	N/A	Original report issue. Report and drawings forwarded to AMS for Hallmark Certification

Appendix A:
Alteration Addendum

Note: No alterations were required,



Appendix B

WDMA Submittal Forms



WDMA HALLMARK CERTIFICATION PROGRAM REPORT SUBMISSION FORM

THIS FORM IS TO BE COMPLETED BY THE MANUFACTURER AND SUBMITTED TO AMS PRIOR TO OR ALONG WITH SUBMISSION OF EACH NEW OR REVISED TEST REPORT FOR CERTIFICATION TO THE HALLMARK PROGRAM. ANY QUESTIONS PLEASE CONTACT AMS AT 315-646-2234 OR staff@amscert.com.

Manufacturer: Eagle Window and Door

Contact: Todd Bergstrom

Plant Location(s):
(list all plants where product is made)
2045 Kerper Blvd, Dubuque IA 52004

Phone: 563-556-2270

Test Report #: 73104.01

Email: tbergstrom@eaglewindow.com

Product Relationship:

Extension of currently certified product ? yes no n/a Recertification New (check one)

If yes, what CCL # ? 099-H-609

Difference from Certified Product: Re-Certification – Report 02-45594.01 expires 6/16/07

Is this a Gateway Test ? yes no n/a

Does this report require a Gateway Report # ? yes no n/a Report #: 73103.01

Impact Report:

If this is not an impact report check here:
AWS Report # _____

Test Plan # ? yes no n/a _____

Installation Instructions submitted ? yes no n/a

Certification to Florida:

If this will not be submitted to Florida check here:

AMS to Input to Database yes no n/a

Manufacturer to input yes no n/a



WDMA HALLMARK CERTIFICATION PROGRAM REPORT SUBMISSION FORM

Product Name: **Axiom Clad Casement Vent**
(as to be listed on CCL)

Product Type: Casement

Additional Manufacturer ID #: _____

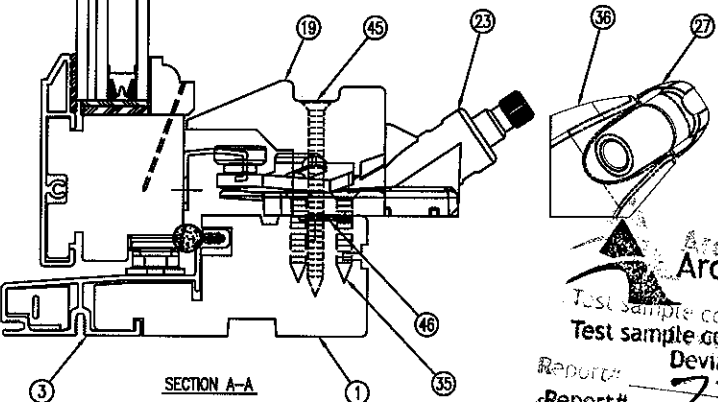
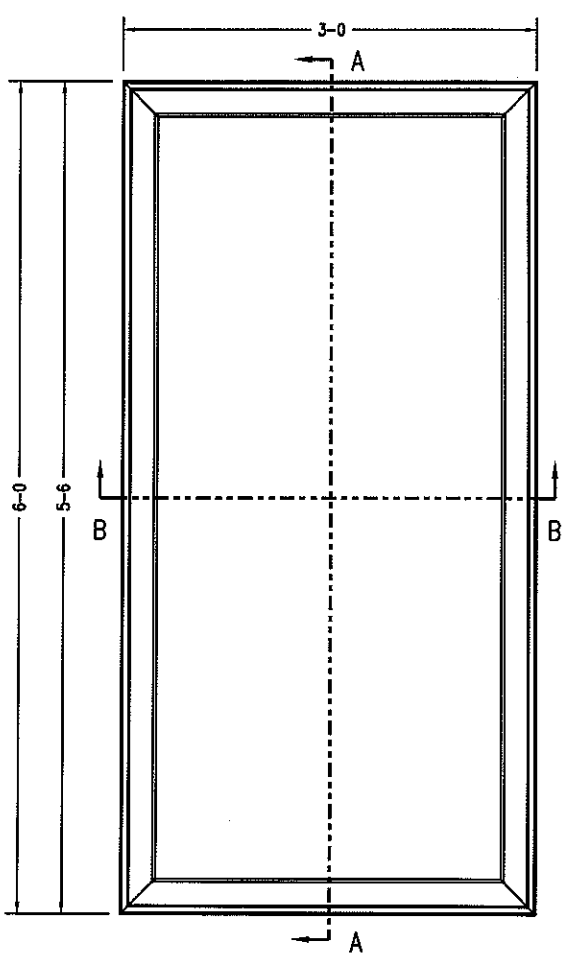
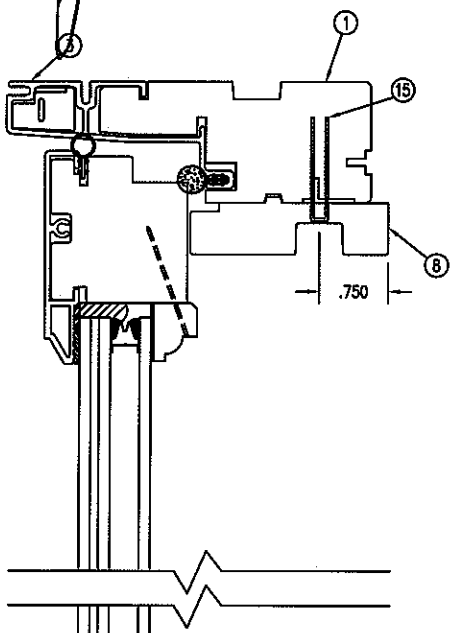
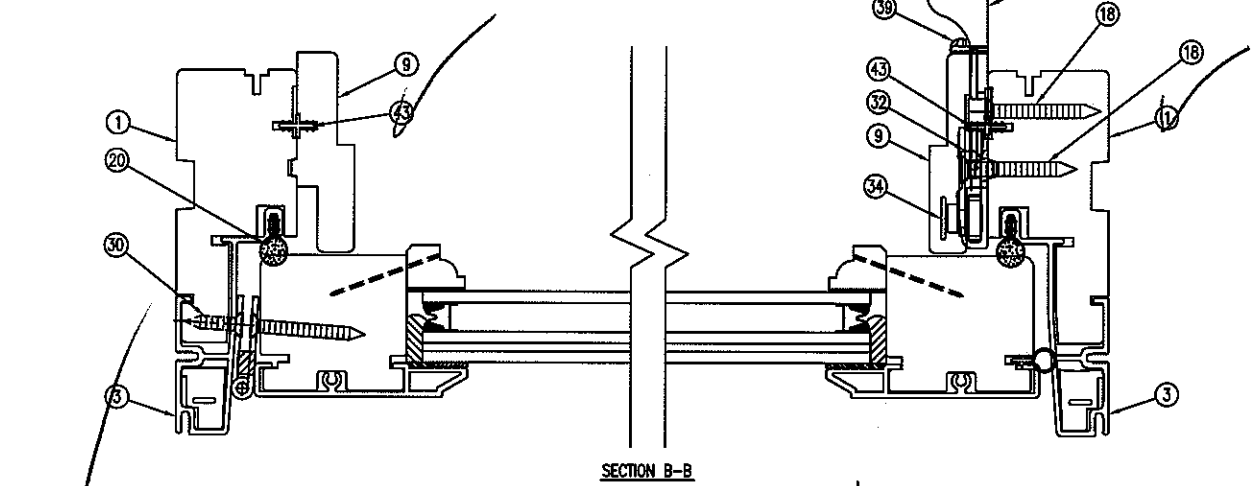
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<u>Hallmark CCL</u>	<u>Standard</u>	<u>Rating</u>
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<input type="checkbox"/>	101/I.S.2/NAFS-02	_____
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<input type="checkbox"/>	TAS 202-94	_____
<input type="checkbox"/>	TAS 203-94	_____
<input type="checkbox"/>	Other:	_____

Appendix C

Drawings

NOTE: 1. STAPLES TO BE 0 TO 1/32" BELOW SIDE STOP SURFACE.
 2. SIDE STOP STAPLES LOCATED $2" \pm 1/2"$ FROM EACH END OF STOP AND SPACED
 6" TO 8" ON CENTER. NO STAPLES ARE TO BE LOCATED WITHIN 1" OF LOCK ROUTS.

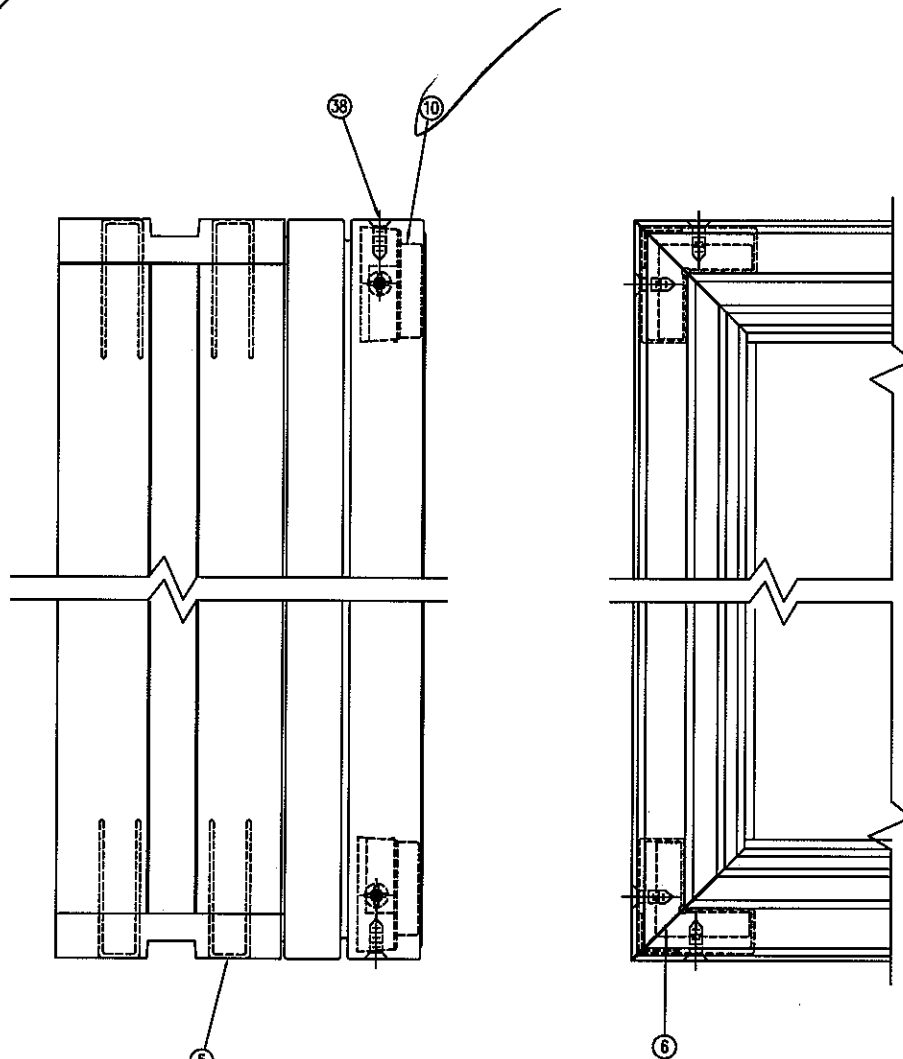
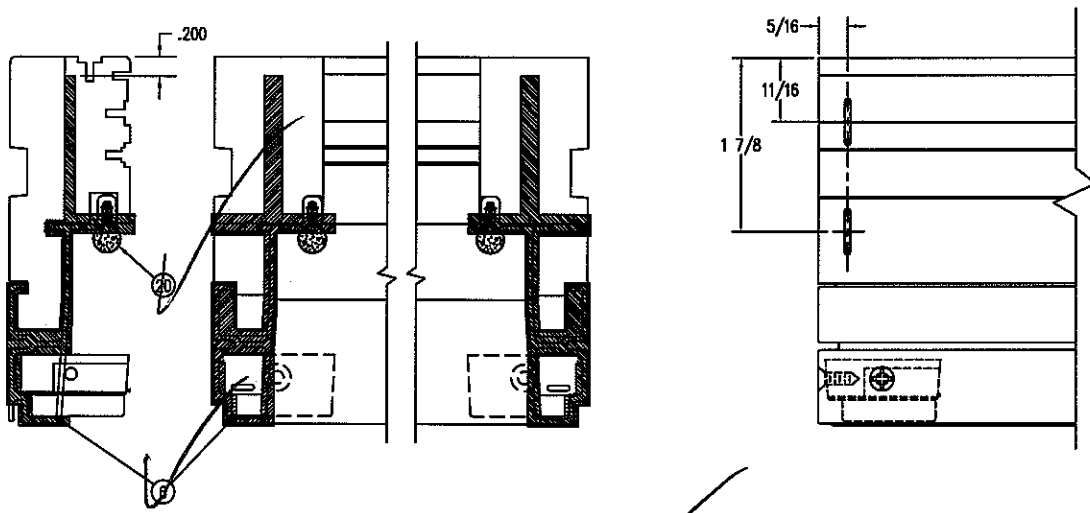


Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report# 73103, 73104
 Date 5/14/07 Tech TG

THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.			
TITLE: CCV W/ PIANO HINGE UNIT ASSEMBLY			
FINISH:			
MATERIAL:			
DFT:	KJS	SCALE:	1=2
DCN:	0710	DRWG:	0543
DATE:	5/30/07	C	01 OF 07

NO	DESCRIPTION	DFT	DOC	DATE

NOTE: 1. INSERT CORNER KEY BEFORE APPLYING SEALANT.



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 73103, 73104
Date 5/14-16/07 Tech TG

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TITLE: CCV W/ PIANO HINGE
UNIT ASSEMBLY

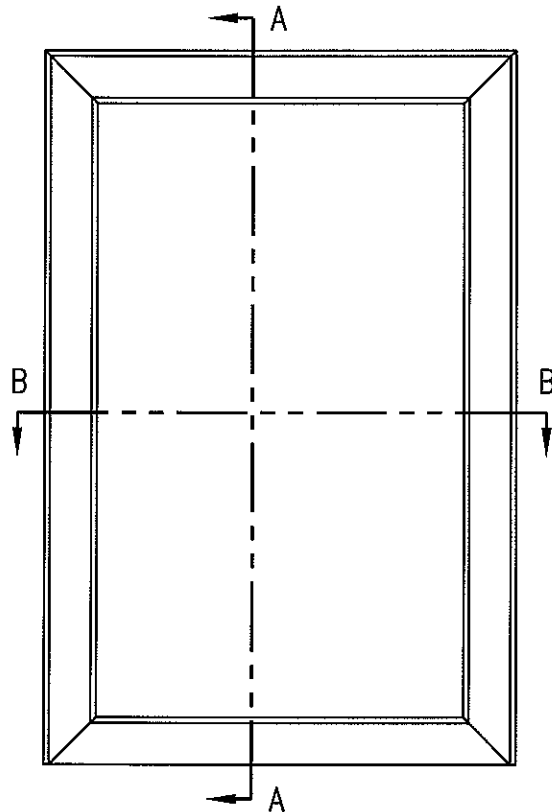
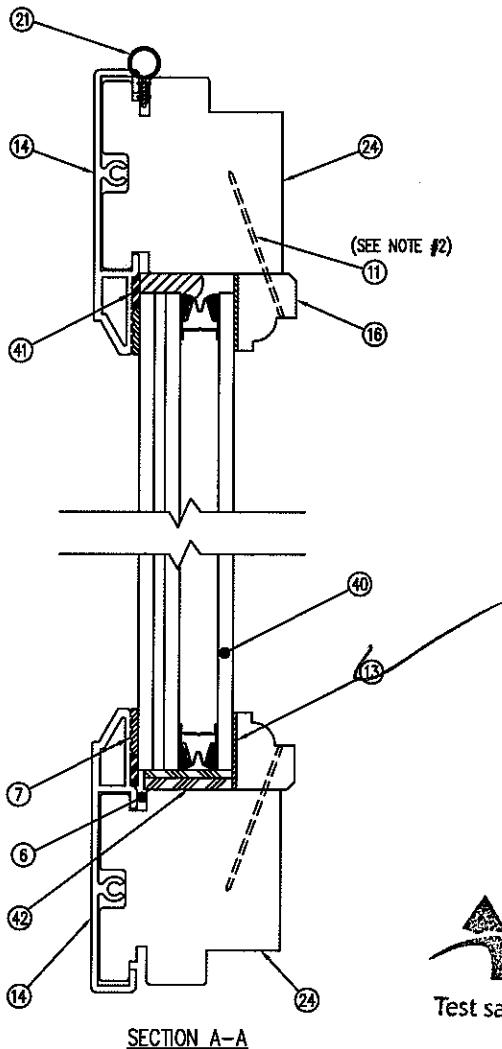
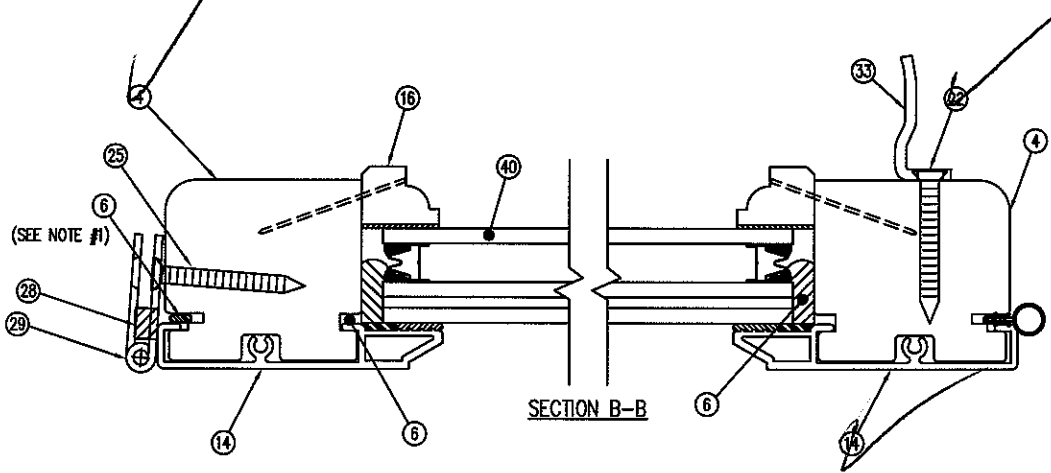
FINISH:

MATL:

DFT: KJS SCALE: 1=2
DCN: 0710 DRWG: 0543

NO	DESCRIPTION	DFT	DOC	DATE
				DATE: <u>5/30/07</u> C 02

NOTE: 1. SILICONE SEALANT TO BE APPLIED TO THE CORNERS OF THE SASH BULB GROOVE PRIOR TO INSERTING THE BULB WEATHERSTRIP. THE SEALANT SHOULD FILL THE GROOVE FOR APPROX. 1/8" LENGTH FROM EACH CORNER.
 2. BRADS TO BE 1/32" TO 1/16" BELOW GLAZING STOP SURFACE. LOCATED 1" FROM EACH CORNER, SPACED 6 TO 8" ON CENTER.



Architectural Testing

Test sample complies with these details.
 Deviations are noted.

Report# 73103, 73104
 Date 5/14/07 Tech TG

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TITLE: CCV W/ PIANO HINGE SASH ASSEMBLY

FINISH:

MATL:

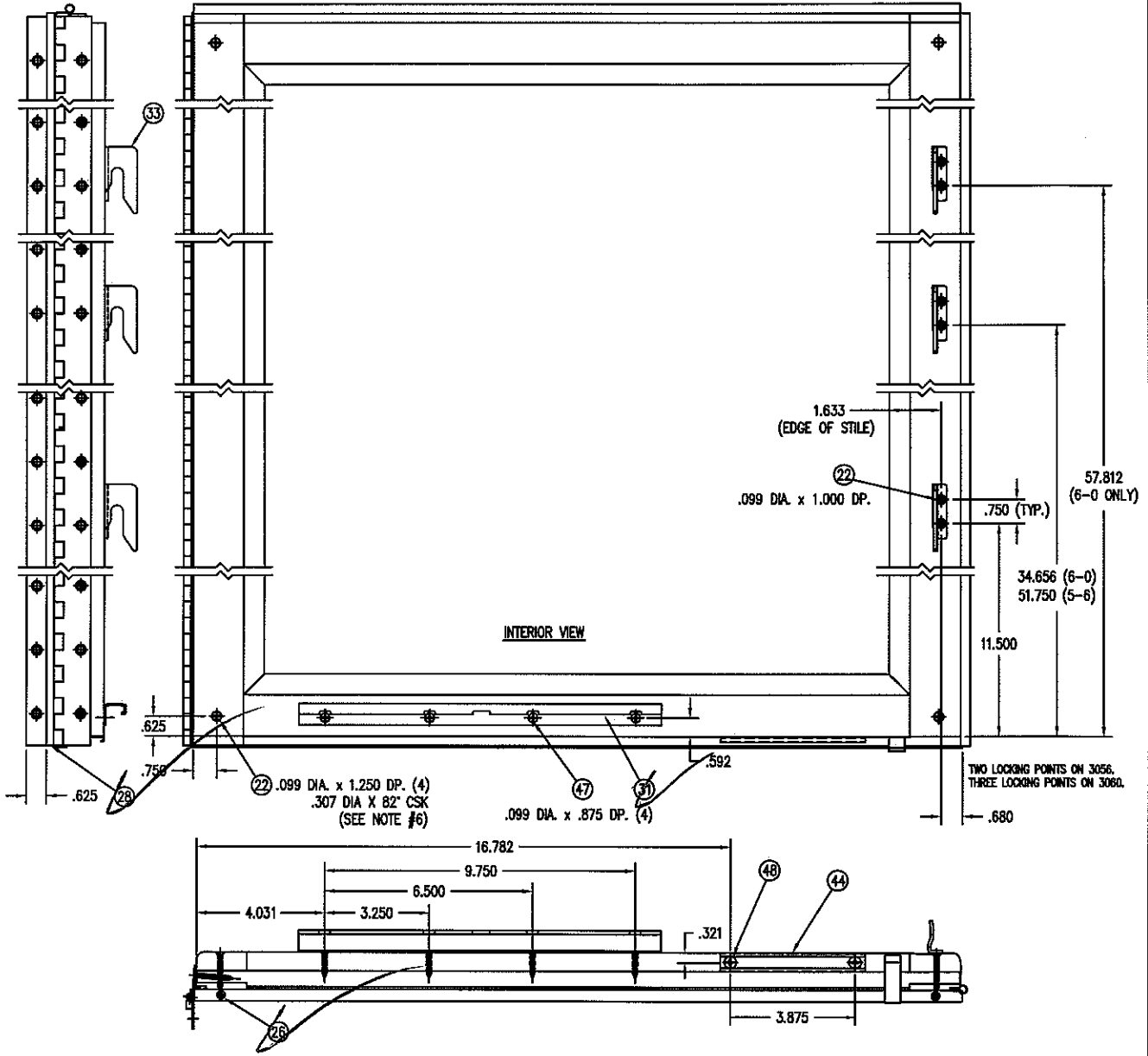
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 DCN: 0710 DRWG: 0543
 DATE: 5/29/07 | C 03

NOI	DESCRIPTION	DFT	DOC	DATE

 Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 73103, 73104
Date 5/14/07 Tech TC



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TITLE: CCV W/ PIANO HINGE
SASH ASSEMBLY

FINISH:

MATL:

DFT: CRC SCALE: 1=5
DCN: 0710 DRWG: 0543
DATE: 5/29/07 C 04

(NO)	DESCRIPTION	DFT	DOC	DATE

NO.	DWG. NO.	PART DESCRIPTION	QUANTITY	MATERIAL	SUPPLIER
1	220L	FRAME MEMBERS	4	WOOD (LVL)	EAGLE WINDOW & DOOR
2					
3	A04A	FRAME CLADDING	4	ALUMINUM	BONNELL
4	21DF	STILE	2	WOOD	EAGLE WINDOW & DOOR
5	A15Y	7/16 X 1 1/2" 16GA. STAPLE	AS REQUIRED	STEEL	PACKAGING CORP.
6	A030	SILICONE SEALANT (PECORA 896)	AS REQUIRED	SILICONE	DOW CORNING
7	A51H	INSTANT GLAZE II SEALANT	AS REQUIRED	SILICONE	DOW CORNING
8	220T	HEAD STOP	1	WOOD	EAGLE WINDOW & DOOR
9	20C0	SIDE STOP	2	WOOD	EAGLE WINDOW & DOOR
10	A100	CORNER KEY	4	NYLON	LAKE COUNTRTY SALES
11	A40F	1 1/4" HARDENED STEEL BRAD - 18 GA.	AS REQUIRED	STEEL	ABILITY FASTENERS
12	A08W	CORNER KEY	4	ABS COMPOUND	LAKE COUNTRTY SALES
13	A67M	ADHESIVE TAPE (5/8") (SINGLE SIDE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
14	A07L	RAIL / STILE CLADDING	4	ALUMINUM	BONNELL
15	A00L	3/16 X 1 1/8 STAPLE	AS REQUIRED	GALVANIZED STEEL	ABILITY FASTENERS
16	220J	COLONIAL GLAZING STOP	4	WOOD	EAGLE WINDOW & DOOR
17	A01D	WOOD ADHESIVE	AS REQUIRED	COPOLYMER	NATIONAL STARCH
18	A070	#7 X 1 1/4" FHSMS Z&Y	AS REQUIRED	STAINLESS STEEL	ABILITY FASTENERS
19	223N	SILL COVER	1	WOOD	EAGLE WINDOW & DOOR
20	A55N	FRAME WEATHERSTRIP	1	CLOSED CELL FOAM	AMESBURY
21	A283	BULB WEATHERSTRIP - HEAD	2	PPR	INTEK
22	A39W	#7 X 1 1/4" FHSMS S.S.	4	STAINLESS STEEL	ABILITY FASTENERS
	A54N	#6 x 1 1/4" 410 S.S. TEKS FH (FOR HARD		STAINLESS STEEL	ABILITY FASTENERS
23	A66H	CSMT OPERATOR - PIANO	1	STAINLESS STEEL	ASHLAND HARDWARE
24	21DE	RAIL	2	WOOD	EAGLE WINDOW & DOOR
25	A261	#6 x 1 1/4" FHWS S.S.	1	STAINLESS STEEL	ABILITY FASTENERS
26	A08L	#5 X 1 1/2" FHES	4	STAINLESS STEEL	ABILITY FASTENERS
27	A66R	OPERATOR HANDLE	1	STEEL	ASHLAND HARDWARE
28	A25X	3/16" x 1 1/4" CLOSED CELL FOAM PAD	1	POLYETHYLENE	ADHESIVE RESEARCH
29	A387	2" PIANO HINGE	1	STAINLESS STEEL	TRUTH HARDWARE
30	A00R	#7 X 5/8" SS FH. WS.	3	STAINLESS STEEL	ABILITY FASTENERS
31	A66J	SASH TRACK	1	STAINLESS STEEL	ASHLAND HARDWARE
32	A550	TIE BAR GUIDE	4	PLASTIC	ASHLAND HARDWARE
33	A549	LOCK KEEPER	2	STEEL	ASHLAND HARDWARE
34	A566	MULTI-POINT LOCK BAR (2-POINT)	1	STEEL	ASHLAND HARDWARE
35	A00P	#8 X 1" FH SMS	AS REQUIRED	STEEL	ABILITY FASTENERS
36	A66T	OPERATOR COVER	1	PLASTIC	ASHLAND HARDWARE
37	A551	LOCK HANDLE	1	DIE CAST ZINC	ASHLAND HARDWARE
38	A11K	#8 X 7/16" FHSMS W/ #6 HEAD	8	STAINLESS STEEL	ABILITY FASTENERS
39	A543	HANDLE BEZEL		PLASTIC	ASHLAND HARDWARE
40	A478	IMPACT RESISTANT GLASS	1	GLASS	CARDINAL IG
41	A08K	GLAZING SHIM, .250 x .065 x 4.000	AS REQUIRED	NEOPRENE RUBER	CLIM-A-TECH
42	A00E	NEOPRENE GLASS SETTING BLOCK	AS REQUIRED	NEOPRENE RUBER	CLIM-A-TECH
43	A67E	BLIND NAILING SPLINE	AS REQUIRED	VINYL	
44	A679	SHIM LIMITER TRACK	1	STAINLESS STEEL	ALLMETAL
45	A00N	#8 x 2 1/8" FHWS Z&Y	AS REQUIRED	STAINLESS STEEL	ABILITY FASTENERS
46	A69F	OPERATOR SHIM	1	RIGID PVC	
47	A00T	#7 x 7/8" FHWS S.S.	4	STAINLESS STEEL	ABILITY FASTENERS
48	A39K	#10 x 5/8" PFHMS S.S.	2	STAINLESS STEEL	ABILITY FASTENERS
49	H-40	5/8" BETWEEN GLASS MUNTIN	AS REQUIRED	ALUMINUM	ALLMETAL
50	P/PD	1" CONTOUR MUNTIN	AS REQUIRED	ALUMINUM	ALLMETAL
51	220H	1 1/2" INTERIOR COLONIAL MDL BAR	AS REQUIRED	WOOD	EAGLE WINDOW & DOOR
52	H-40	SPACER CHANNEL	AS REQUIRED	ALUMINUM	ALLMETAL
53	A507	1 1/2" EXTERIOR MDL BAR	AS REQUIRED	ALUMINUM	HYDRO
54	A67X	1 1/2" MDL ADHESIVE TAPE (EXTERIOR T	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
55	A67L	1 1/2" MDL ADHESIVE TAPE (INTERIOR T	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
56	220H	1 1/8" INTERIOR COLONIAL MDL BAR	AS REQUIRED	WOOD	EAGLE WINDOW & DOOR
57	H-40	SPACER CHANNEL	AS REQUIRED	ALUMINUM	ALLMETAL
58	A507	1 1/8" EXTERIOR MDL BAR	AS REQUIRED	ALUMINUM	HYDRO
59	A67W	1 1/8" MDL ADHESIVE TAPE (EXTERIOR T	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
60	A67R	1 1/8" MDL ADHESIVE TAPE (INTERIOR T	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
61	220H	7/8" INTERIOR COLONIAL MDL BAR	AS REQUIRED	WOOD	EAGLE WINDOW & DOOR
62	H-40	SPACER CHANNEL	AS REQUIRED	ALUMINUM	ALLMETAL
63	A507	7/8" EXTERIOR MDL BAR	AS REQUIRED	ALUMINUM	HYDRO
64	A67T	7/8" MDL ADHESIVE TAPE (EXTERIOR T	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
65	A67N	7/8" MDL ADHESIVE TAPE (INTERIOR T	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
66	20FA	5/8" INTERIOR COLONIAL MDL BAR	AS REQUIRED	WOOD	EAGLE WINDOW & DOOR
67	H-40	SPACER CHANNEL	AS REQUIRED	ALUMINUM	ALLMETAL
68	A72D	5/8" EXTERIOR MDL BAR	AS REQUIRED	ALUMINUM	HYDRO
69	A75N	5/8" MDL ADHESIVE TAPE (EXTERIOR T	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
70	A75M	5/8" MDL ADHESIVE TAPE (INTERIOR T	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
71	N/A	ADHESIVE FOAM TAPE	AS REQUIRED	POLYETHYLENE	CARDINAL



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report#

73103, 73104

Date 5/14-16/07

Tech TG

TITLE: CCV UNIT ASSY.
W/ IMPACT GLAZING

FINISH:

MATL:

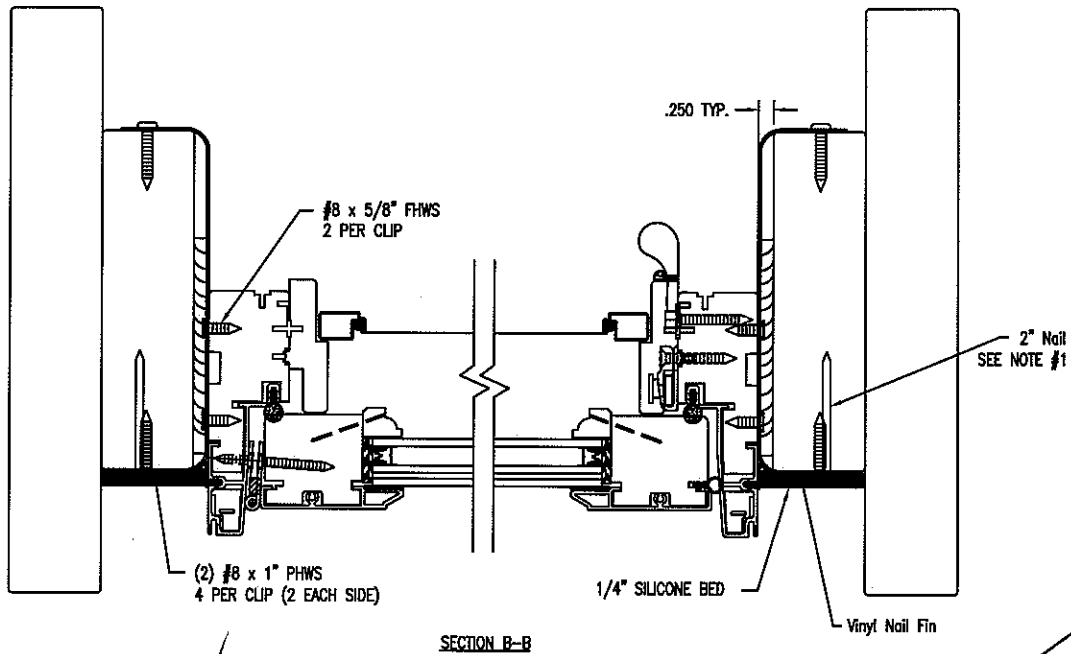
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DCN: 0710 DRWG: 0543

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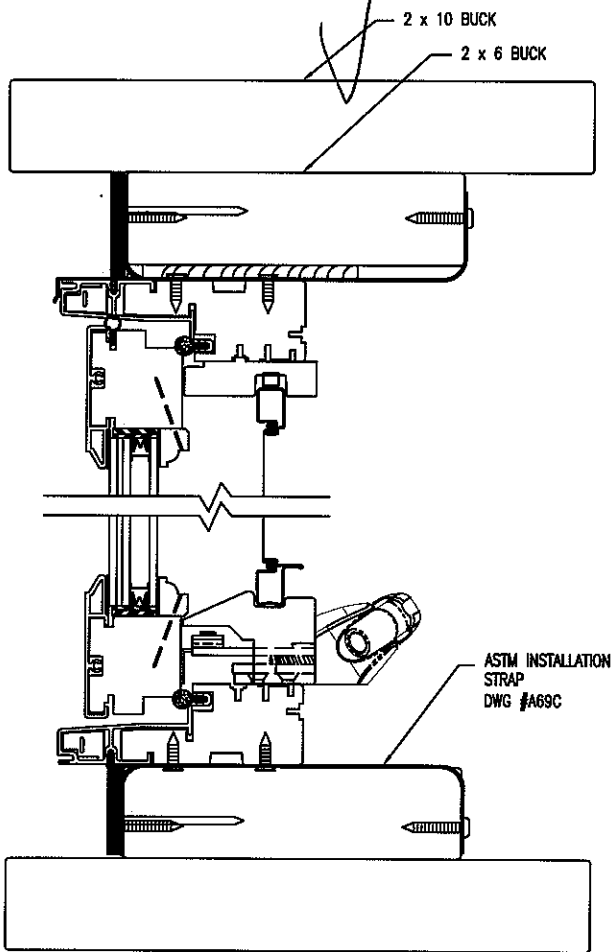
Test sample complies with these details.
Deviations are noted.

Report# 73103.173104
Date 5/14/16 Tech TC

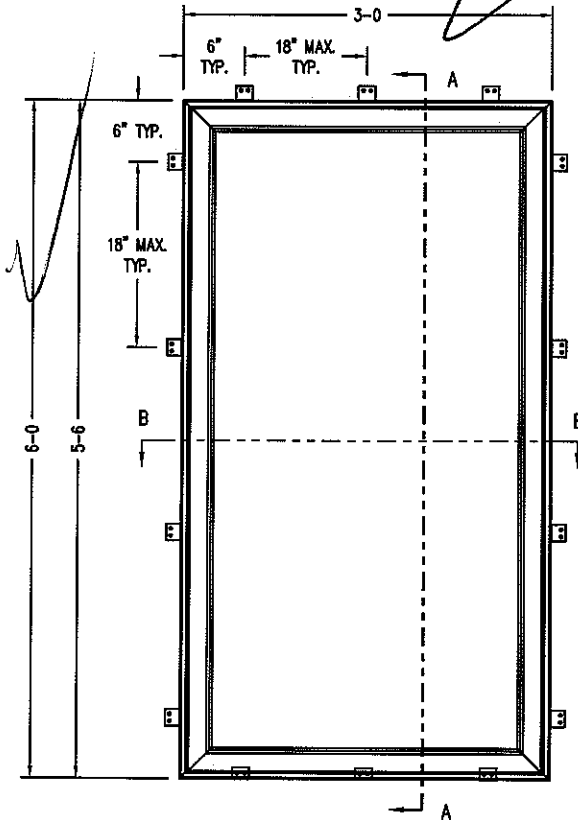
1. CENTER NAIL FIN, PLACE NAIL IN FIRST HOLE AND THEN EVERY OTHER THERE AFTER. 2" ROOFING NAILS THROUGH NAIL FIN INTO WALL.



SECTION B-B



SECTION A-A



CLAD CASEMENT
EXTERIOR VIEW

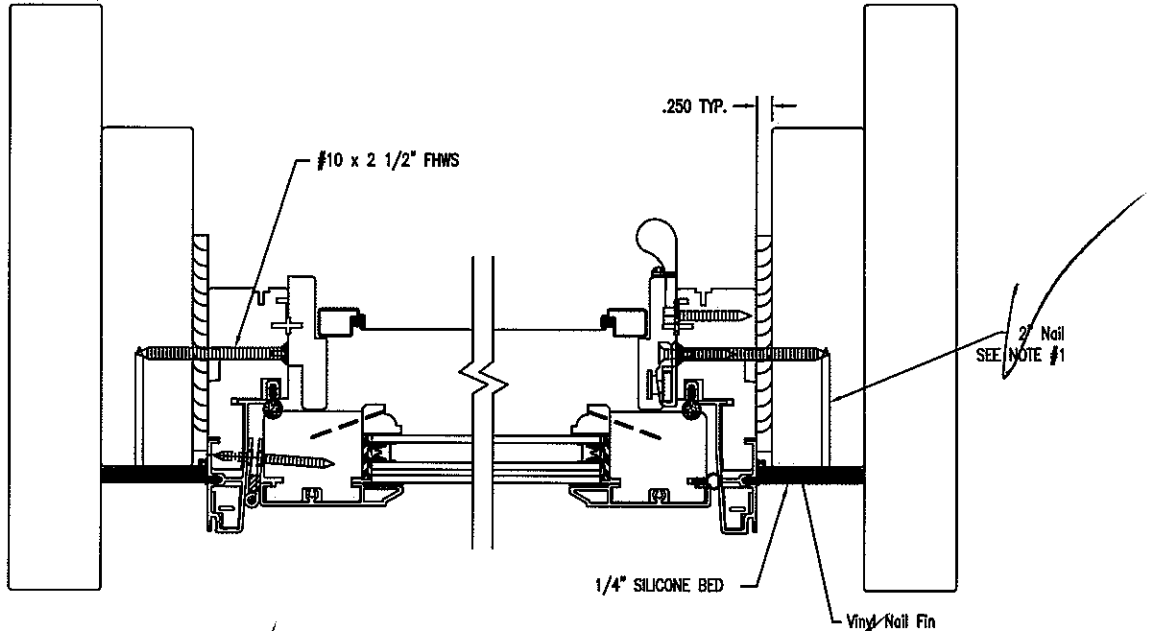
THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF
EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE
CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE
EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.
TITLE: CLAD CASEMENT VENT
INSTALLATION DETAIL (IMPACT)
FINISH:
MATERIAL:
DPI: CRC SCALE: 1=3
DCN: 1099 DRWG: 053P
DATE: 5/29/07 C 04 OF 04

NO	DESCRIPTION	DFT	DOC	DATE
				5/29/07

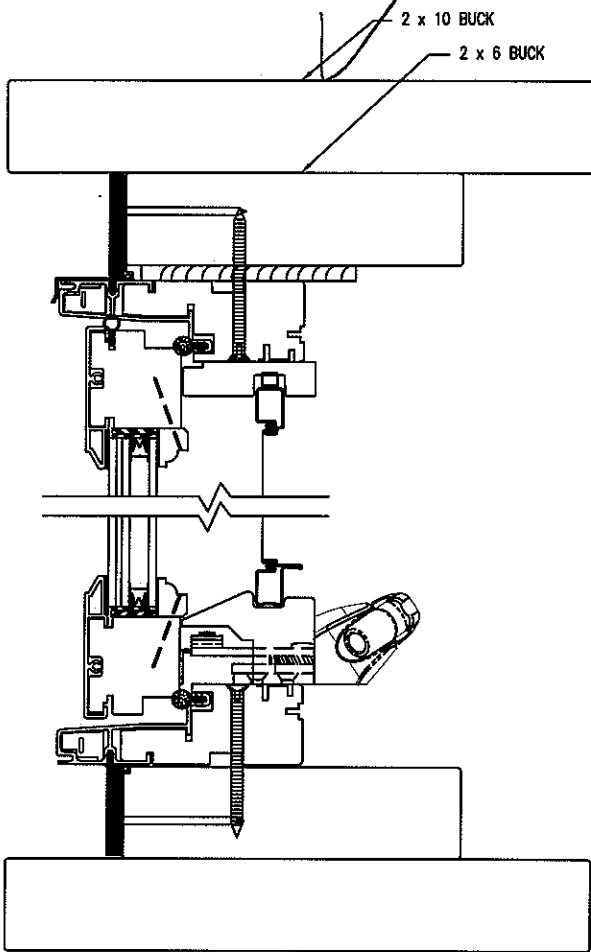
Test sample complies with these details.
Deviations are noted.

Report# 73103-13104
Date 8/14/07 Tech 12

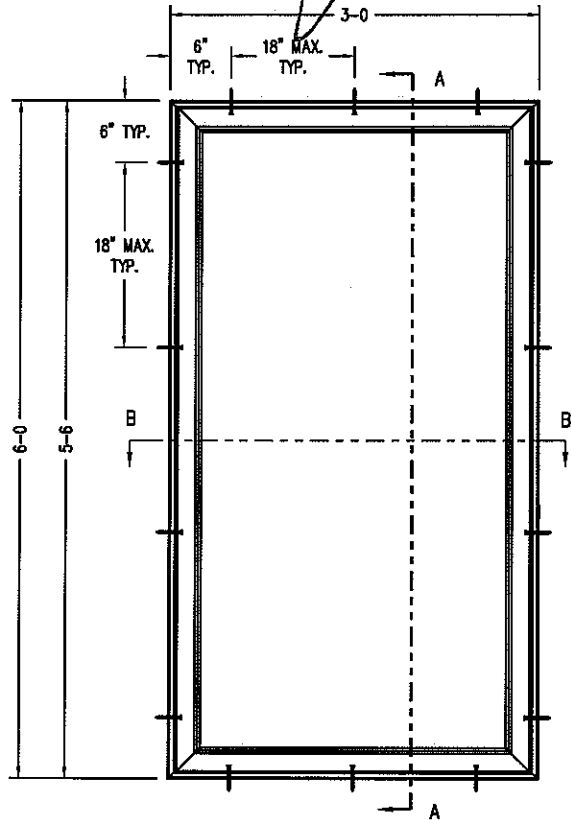
1. CENTER NAIL FIN, PLACE NAIL IN FIRST HOLE AND THEN EVERY OTHER THERE AFTER. 2" ROOFING NAILS THROUGH NAIL FIN INTO WALL.



SECTION B-B



SECTION A-A

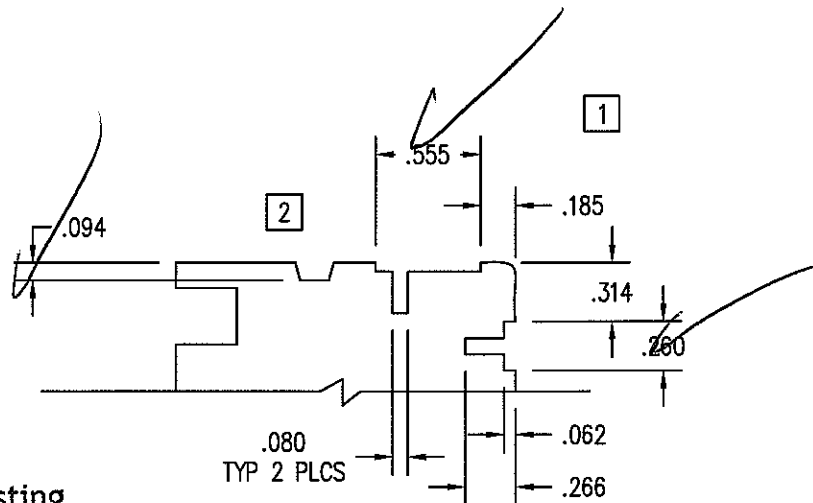


CLAD CASEMENT
EXTERIOR VIEW

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CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE
EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.
TITLE: CLAD CASEMENT VENT
INSTALLATION DETAIL (IMPACT)
FINISH:
MATERIAL:
1099
DFT: CRC SCALE: 1=3
DCN: DRWG: 053R
DATE: 5/29/07 C 04 OF 04

NO	DESCRIPTION	DFT	DOC	DATE
				5/29/07

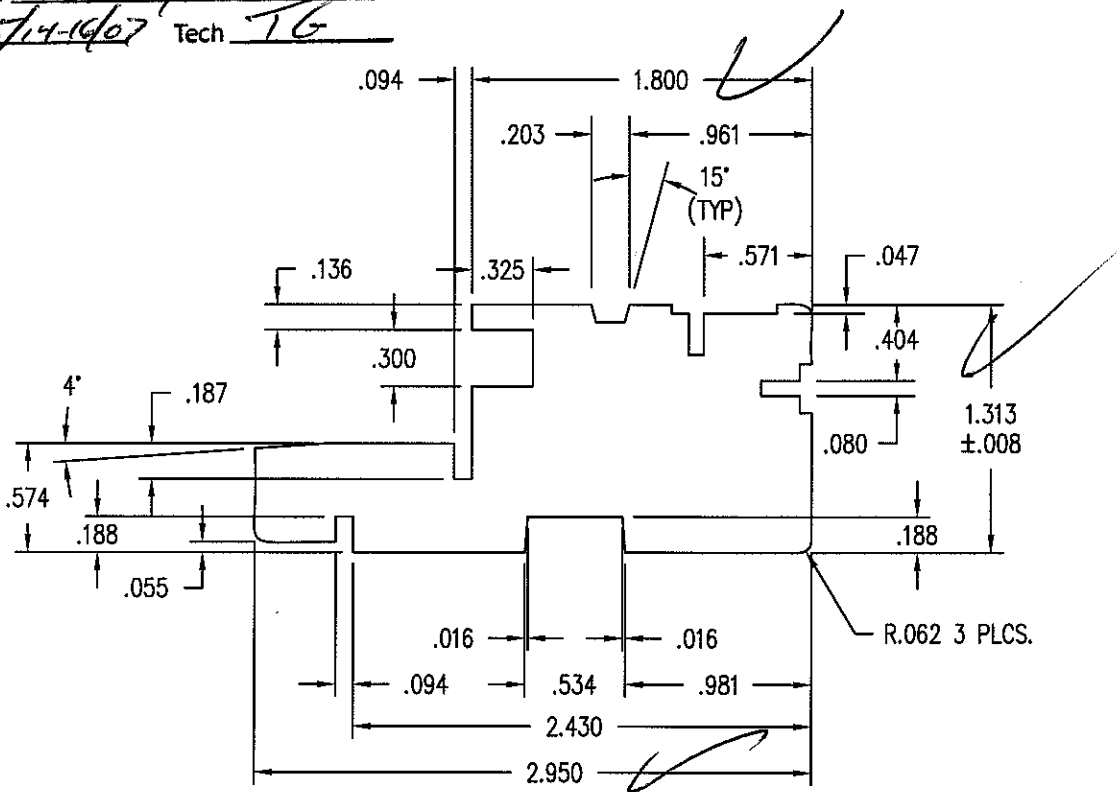
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.+/- .005, FRACTION +/- 1/64, ANGLES +/- 1/2.



Architectural Testing

Test sample complies with these details.
Deviations are noted.

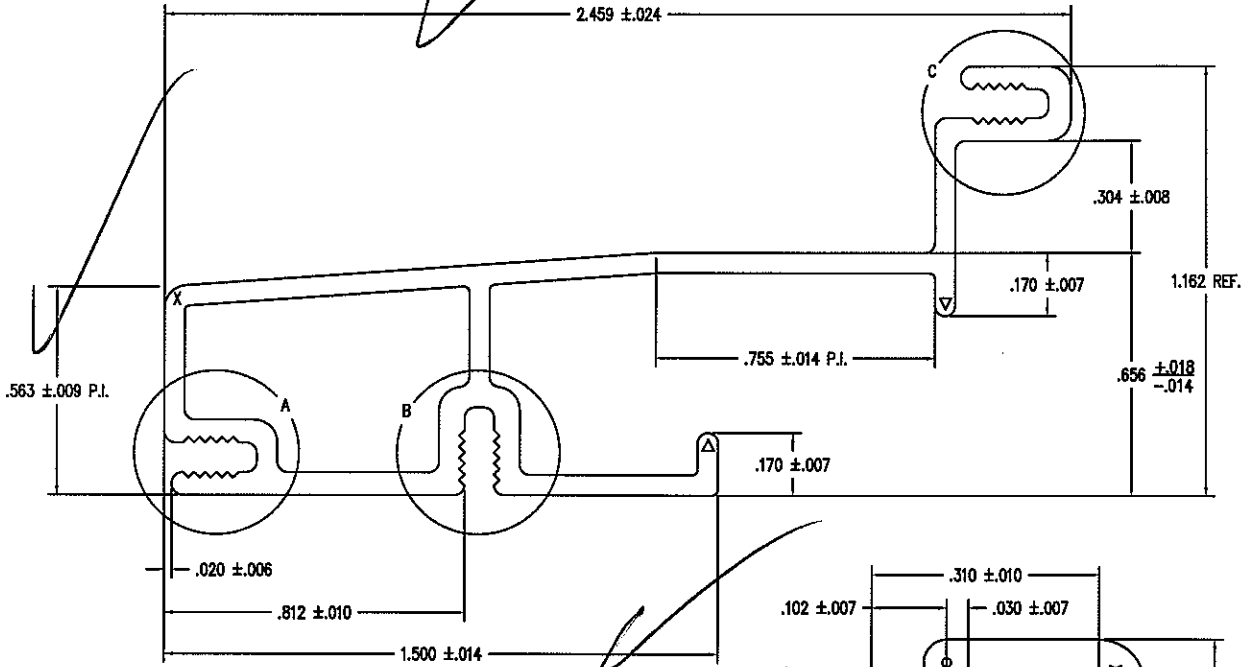
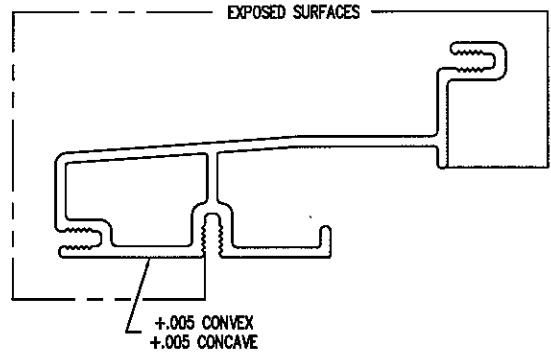
Report# 73103, 73104
Date 5/14/07 Tech TG



02	REMOVED 2 KERFS	RDA	1005	11/30/05
01	REVISED PROFILE - ADDED CONCEALED FASTENER ROUT	RDA	0925	09/30/04
NO	Description of Change	Drafter	DCN#	Date
Title: JAMB CCV-CCF-CAV		Finish: Material SEE PAGE 02		
Scale: 1=1 Date: 5/28/2002		THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.		
Drafter: JMH DCN# 0925				

NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ± 0.005 ; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
 2. UNLESS OTHERWISE SPECIFIED, WALL THICKNESS IS $.055$.
 3. UNLESS OTHERWISE SPECIFIED, BREAK ALL CORNERS $.015$ RADIUS.

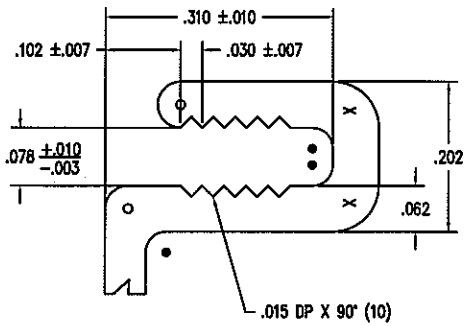
- R .028 (15)
- R .031 (4)
- X R .082 (6)
- △ FULL RAD.(2)



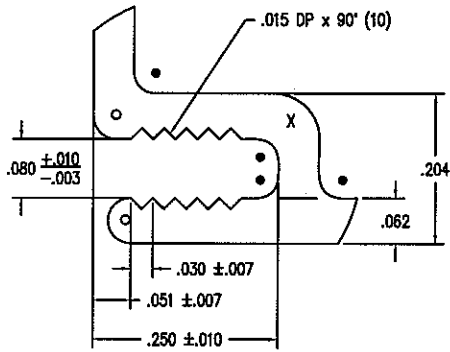
Architectural Testing

Test sample complies with these details.
 Deviations are noted.

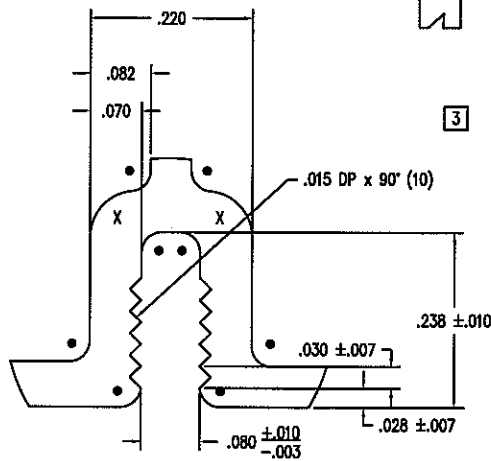
Report# 73103, 73104
 Date 5/14-16/07 Tech TC



3 DETAIL "C"



DETAIL "A"



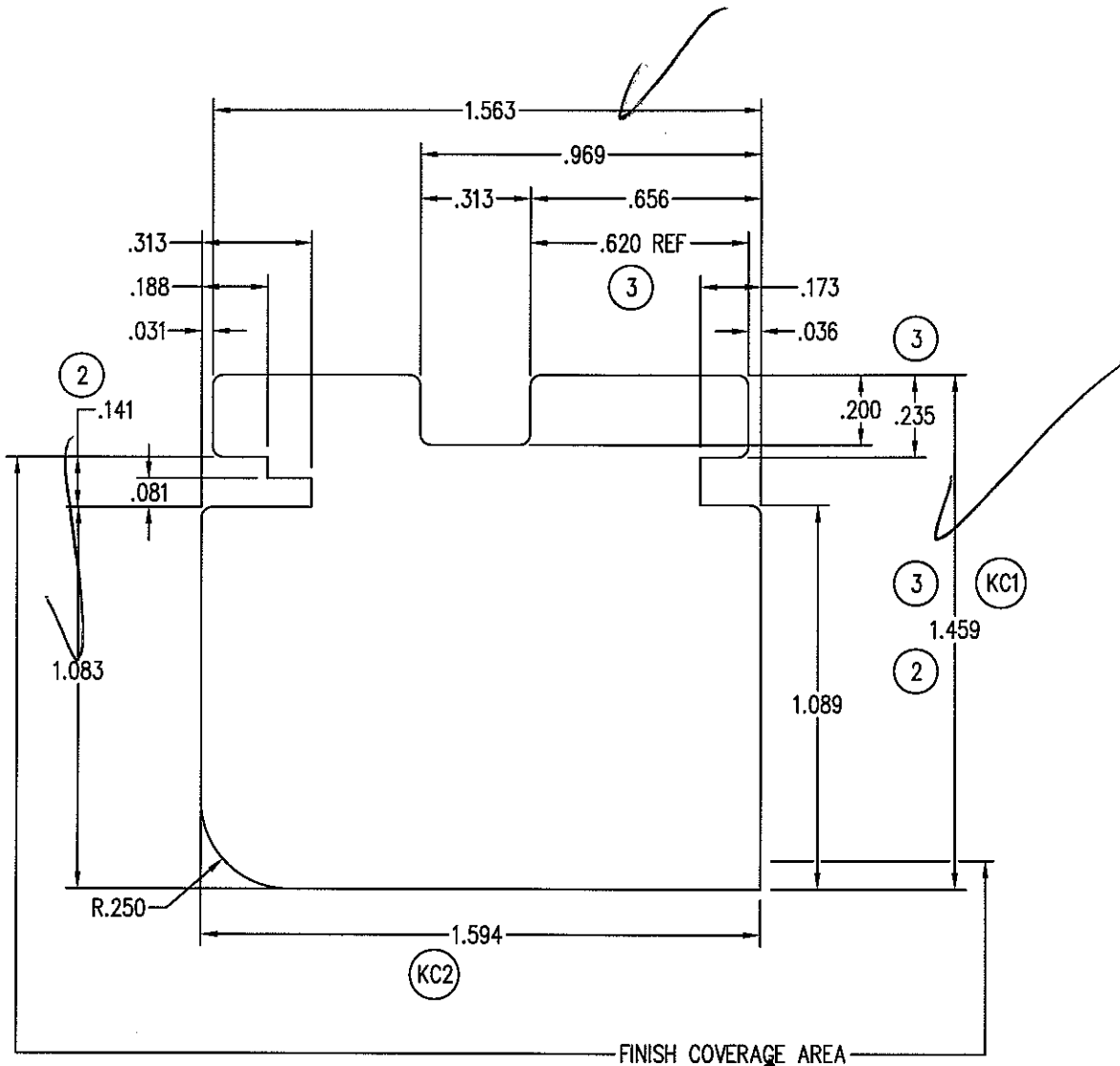
DETAIL "B"

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 TITLE: FRAME COVER CLADDING

FINISH: EAGLE'S STD. COLORS

05	ADDED/CHG'D DIM. & TOLERANCE	TWN	0778	4/4/2003		
04	ADDED TOLERANCE SPECS	TWN	0595	8/31/2000	MATL:	6063 T-6 ALUMINUM
03	REVISED PROFILE	CEL	0368	1/27/1999		OR EQUIVALENT
02	REVISED PROFILE	RDA	0272	9/17/1997	DFT:	REL SCALE: 2=1
01	CHANGED NOTES	CDE	0048	8/7/1992	DCN:	0004 DRWG: A04A
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 7/21/1992	C 01 OF 02

Note: 1 UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE:
 DEC.+/- .005, FRACTION +/- 1/64, ANGLES +/- 1/2.



FINISH COVERAGE AREA

(4)



Architectural Testing

Test sample complies with these details.
 Deviations are noted.

Report# 73103/73104
 Date 5/14-16/07 Tech TG

NO	Description of Change	Drafter	DCN#	Date
05	ADDED DIMENSION	TWN	TRKR	9/03/2006
04	ADDED COVERAGE AREA, AND CHANGED TITLE BLOCK	JH	0924	9/17/2004
03	REVISED DIMENSIONS	TWN	0874	3/12/2004
02	REVISED DIM'S	CEL	0394	4/15/1999
01	ADDED FINISH/MAT'L INFO	DJF	0300	4/9/1998

Title: CLAD CSMT STILE		Finish:	Material: CLEAR PINE
Scale: 1/2"=1"	Date: 8/7/1995	THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.	
Drafter: CEL	DCN# 0154		

43,50,56,57,58

- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. +/- .005, FRACTION +/- 1/64, ANGLES +/- 1/2.
2. CASEMENT, L = FRAME WIDTH - 3 1/2".
3. O/S VENTING SDLT, L = AFH - 3 3/4".
4. HOLD 1.062 AT TENON BEFORE MOULDING.



Architectural Testing

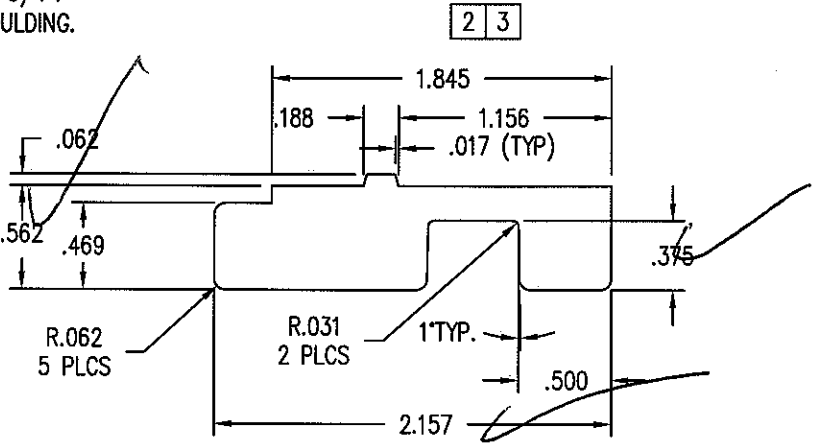
Test sample complies with these details.
Deviations are noted.

Report# 73103, 73104
Date 5/14-16/07 Tech AG

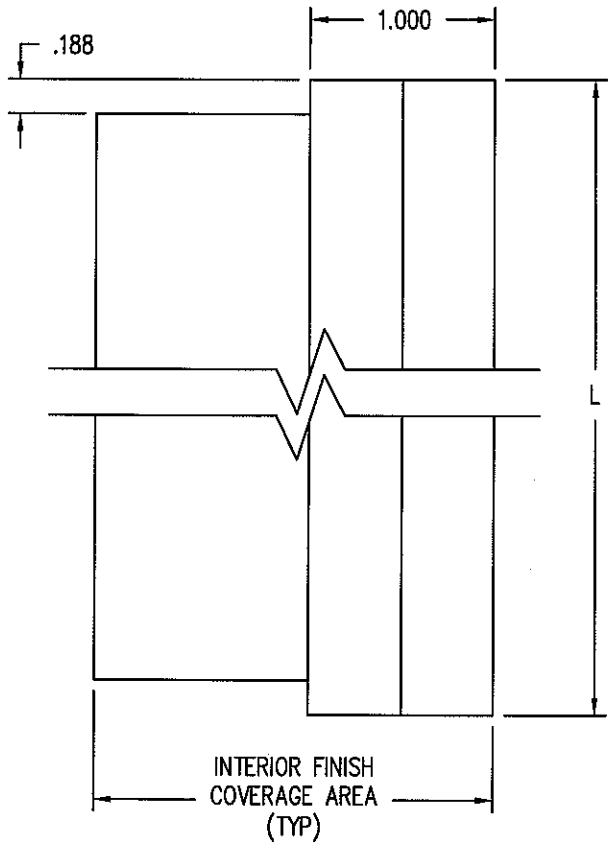
CSMT HEAD STOP	
FRAME WIDTH	L
17 3/4	14 1/4
20	16 1/2
24	20 1/2
28	24 1/2
30	26 1/2
32	28 1/2
36	32 1/2
40	36 1/2
48	44 1/2

O/S VENTING SDLT SIDE STOP	
FRAME WIDTH	L
79 5/16	75 9/16
81 5/16	77 9/16
83 5/16	79 9/16
95 5/16	91 9/16

4



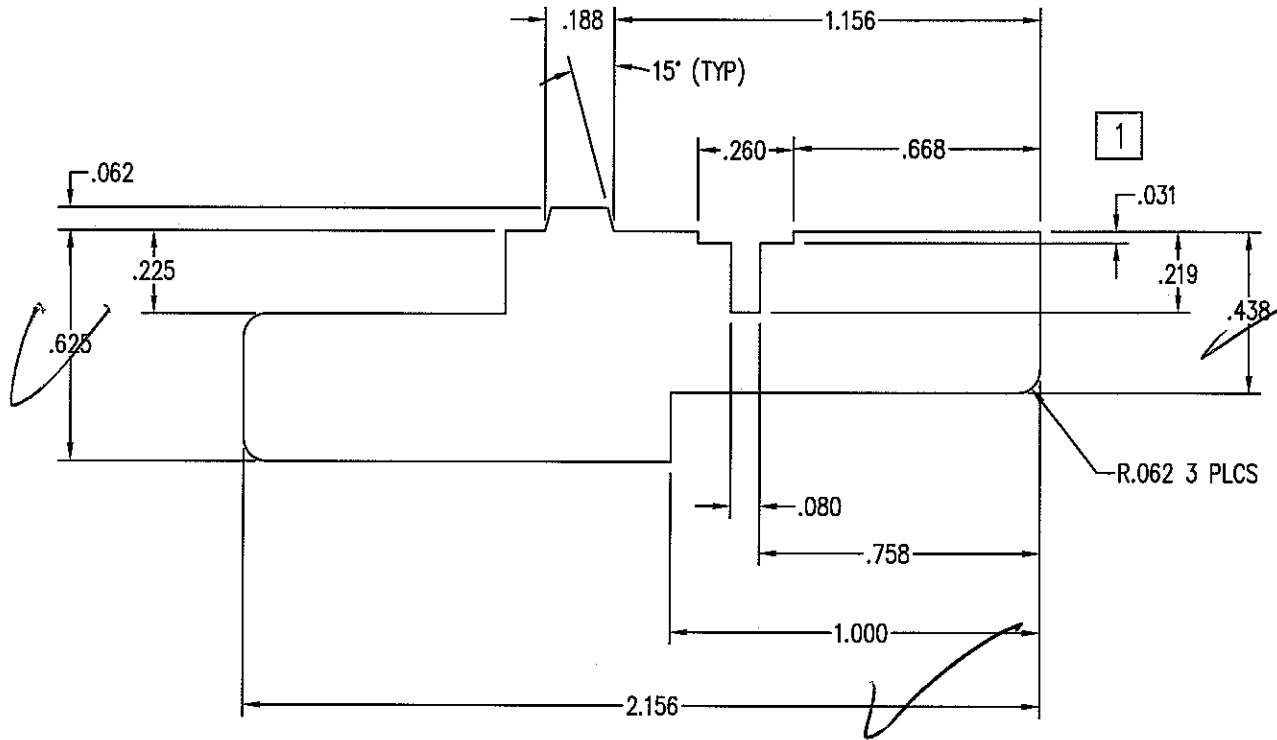
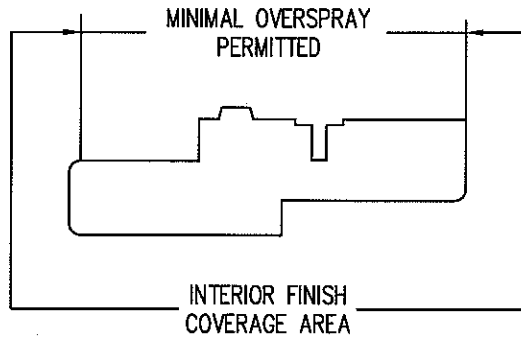
3 SEE NOTE #4



NO	Description of Change	Drafter	DCN#	Date
04	ADDED OUTSWING VENTING SIDELITE CHART	TWN	0952	03/31/06
03	REMOVE KERF	RDA	1000	01/10/05
02	REVISED PROFILE - ADDED CONCEALED FASTENER KERF	RDA	0925	02/22/05
01	ADDED NOTE #3	JH	0893	06/11/04

Title: HEAD STOP		Finish: INTERIOR FINISH SEE A02F		Material: EAGLE STANDARD SPECIES	
Scale: 1=1	Date: 5/29/2002	THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.		REVISION: 4	220T 01 of 01
Drafter: JMH	DCN#: 0681			4	01 of 01

1 UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE:
 DEC.+/- .005, FRACTION +/- 1/64, ANGLES +/- 1/2.



Architectural Testing

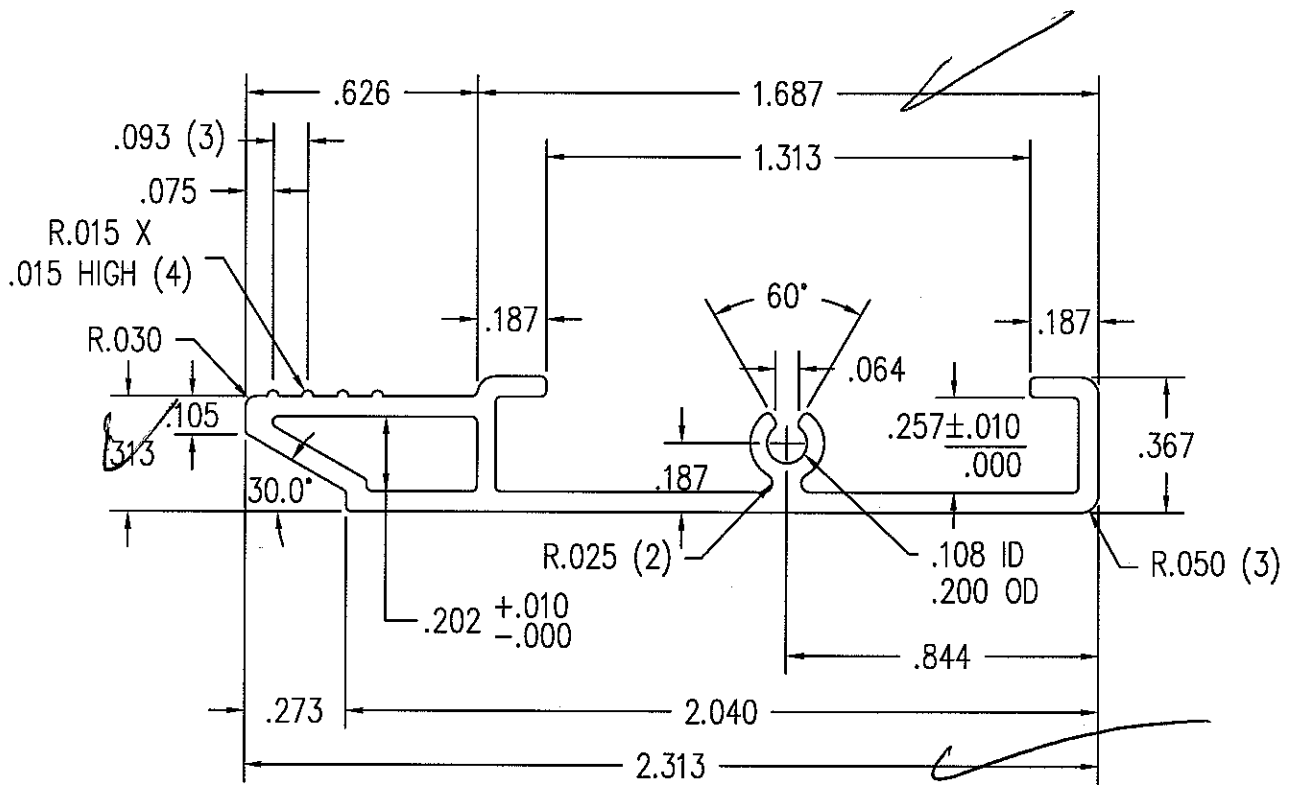
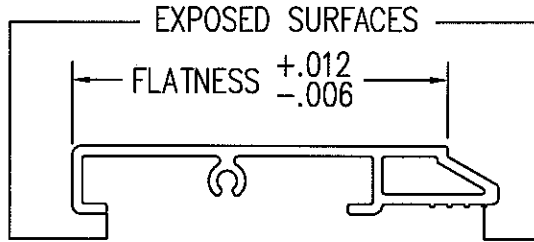
Test sample complies with these details.
 Deviations are noted.

Report# 73103, 73104
 Date 5/14-16/07 Tech TG

02	REVISED PROFILE - ADDED CONCEALED FASTENER KERF	RDA	0925	09/30/04
01	ADDED COVERAGE AREA AND CHANGED TITLE BLOCK	JH	0893	06/11/2004
NO	Description of Change	Drafter	DCN#	Date
Title: CASEMENT CONCEALED LOCK HINGE SIDE STOP		Finish: STD. EAGLE FINISHES	Material: STD WOOD SPECIES	
Scale: 2=1	Date: 3/6/2002	THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.		REVISION: 20C0
Drafter: AWW	DCN# 0681			2

43,50,56,57,58

- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ± 0.005 ; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
 2. WALL THICKNESS TO BE .055 UNLESS OTHERWISE SPECIFIED.
 3. ALL RADII NOT DIMENSIONED TO BE .015.



Architectural Testing

Test sample complies with these details.
 Deviations are noted.

Report# 73103, 73104
 Date 5/14/1992 Tech 16

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TITLE: SASH CLADDING

FINISH: EAGLE'S STD. COLORS

MATL: 6063-T6 ALUMINUM OR EQUIVALENT

DFT: REL SCALE: 2=1

01	ADDED TOLERANCE SPEC'S	REL	0595	1/28/2002	DCN: 0029	DRWG: A07L
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 4/14/1992	A 01 OF 02

NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ±.005; FRAC. ±1/64; ANGLES ±1/2'.

PRODUCT	GLASS	A
(PRE '96 & NG) CLAD CASEMENT & AWNING	5/8"	.469
(PRE '96 & NG) CLAD CASEMENT PICTURE	3/4"	.469
CLAD PIANO HINGE CASEMENT	5/8"	.469
CLAD PIANO HINGE CASEMENT (3056 & ABOVE)	3/4"	.469
CLAD RADIUS CASEMENT	5/8" & 3/4"	.469
(PRE '96 & NG) CLAD DOUBLE / SINGLE HUNG	5/8"	.469
(PRE '96 & NG) CLAD DOUBLE HUNG PICTURE	5/8"	.469
CLAD DOUBLE HUNG TRANSOM	5/8"	.469
CLAD DOUBLE HUNG REPLACEMENT SASH	5/8"	.469
ALL CLAD (NON-RADIUS) AUXILIARY (0-15 SQ. FT.)	3/4"	.469
ALL CLAD (NON-RADIUS) AUXILIARY (15+ SQ. FT.)	1"	.469
CLAD SLIDING WINDOW	5/8"	.469
CLAD INSWING / OUTSWING FRENCH DOOR	3/4"	.469
CLAD FRENCH DOOR TRANSOM	3/4"	.469
CLAD PATIO / FRENCH SLIDING DOOR	3/4"	.469
(PRE '98) WOOD CASEMENT & AWNING	3/4"	.680
(PRE '98) WOOD CASEMENT PICTURE	3/4"	.680
(NG) WOOD CASEMENT & AWNING	5/8"	.469
(NG) WOOD CASEMENT PICTURE	5/8" & 3/4"	.469
WOOD PIANO HINGE CASEMENT	5/8"	.469
WOOD PIANO HINGE CASEMENT (3056 & ABOVE)	3/4"	.469
(PRE '96 & NG) WOOD DOUBLE / SINGLE HUNG	5/8"	.469
(PRE '96 & NG) WOOD DOUBLE HUNG PICTURE	5/8"	.469
WOOD SLIDING WINDOW	5/8"	.469
WOOD DOUBLE HUNG TRANSOM	5/8"	.469
WOOD DOUBLE HUNG REPLACEMENT SASH	5/8"	.469
WOOD (NON-RADIUS) AUXILIARY (0-15 SQ. FT.)	3/4"	.469
WOOD (NON-RADIUS) AUXILIARY (15+ SQ. FT.)	1"	.469
WOOD INSWING / OUTSWING FRENCH DOOR	3/4"	.469
WOOD FRENCH DOOR TRANSOM	3/4"	.469
WOOD PATIO / FRENCH SLIDING DOOR	3/4"	.469
CLAD & WOOD PATIO/FR. SLIDING DOOR (BLIND GLASS)	1"	.406
ALL CLAD AND WOOD WINDOWS AND DOORS EXCEPT AUXILIARY UNITS WHICH ALWAYS USES	SINGLE GLAZED H. MSTR MONO	.680



Test sample complies with these details. Deviations are noted.

Report# 73103, 73104

Date 5/14/07 Tech TC

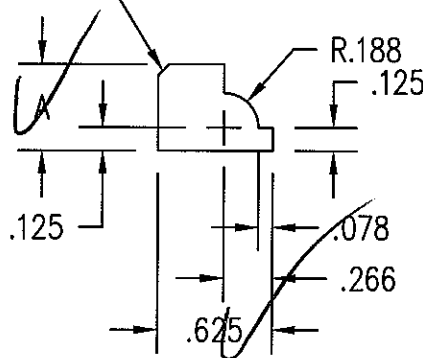
PANEL STOPS	
PRODUCT	A
WOOD OUTSWING SIDELITE	.469
WOOD OUTSWING TRANSOM	.469
WOOD INSWING SIDELITE	.469
WOOD INSWING TRANSOM	.469

2

1

3

.062 x .062 CHAMFER



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TITLE: COLONIAL GLAZING STOP

FINISH:

MATL:

EAGLE STD WOOD OFFERINGS

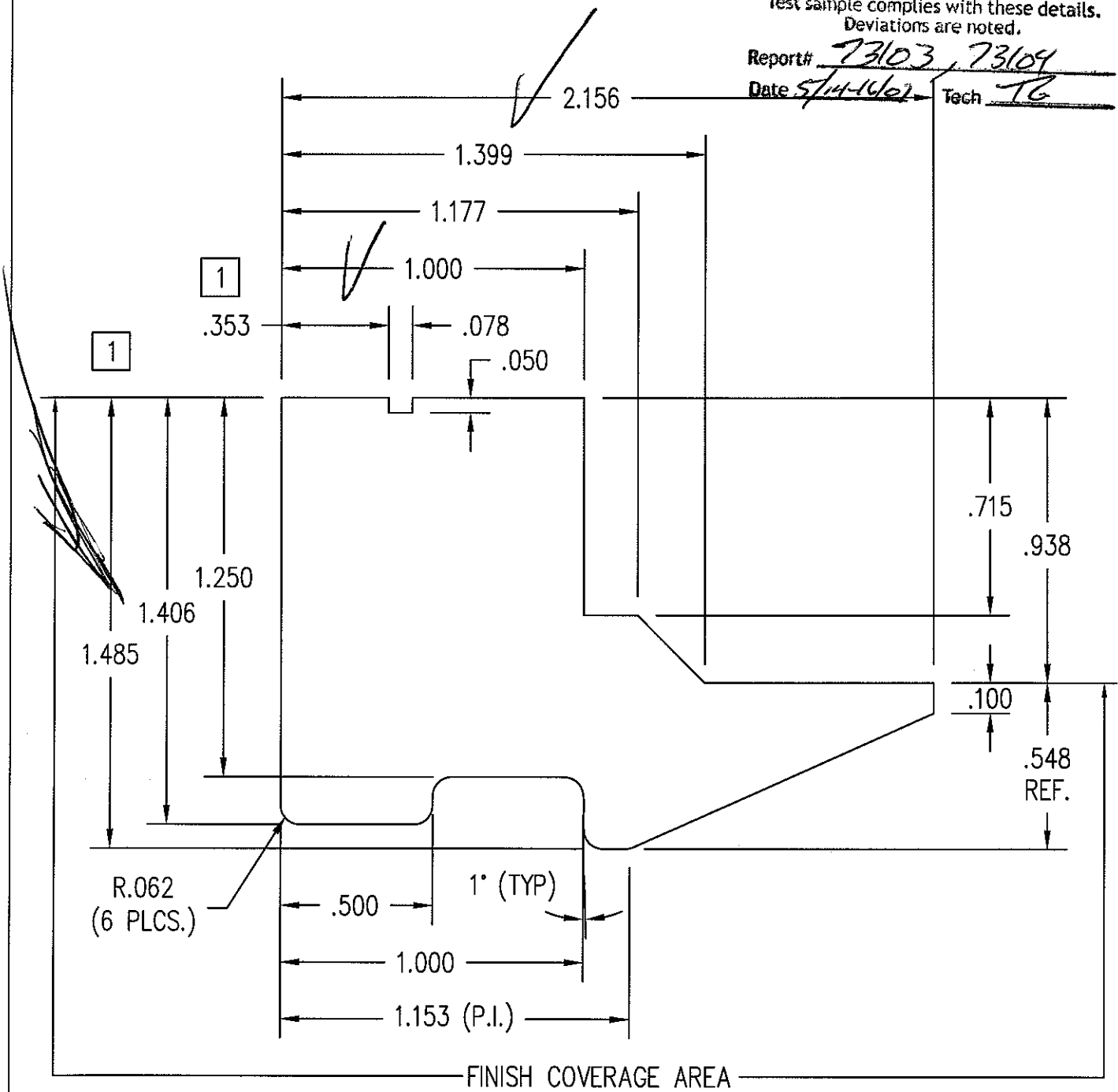
03	ADDED SIZE FOR IMPACT GLAZING	TWN	0972	9/1/05		
02	CHG'D CLAD PANEL STOP "A" DIM	JH	0794	6/30/05	DFT: JMH	SCALE: 1=1
01	ADDED KYLER BLIND SIZE	TWN	0910	4/19/05	DCN: 0650	DRWG: 220J
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 5/29/2002	A 01 OF 03

Note:1 UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN ARE IIN INCHES AND ALL TOLERANCES ARE TO BE: DEC.+/- .005, FRACTION +/- 1/64, ANGLES +/- 1/2°

Architectural Testing

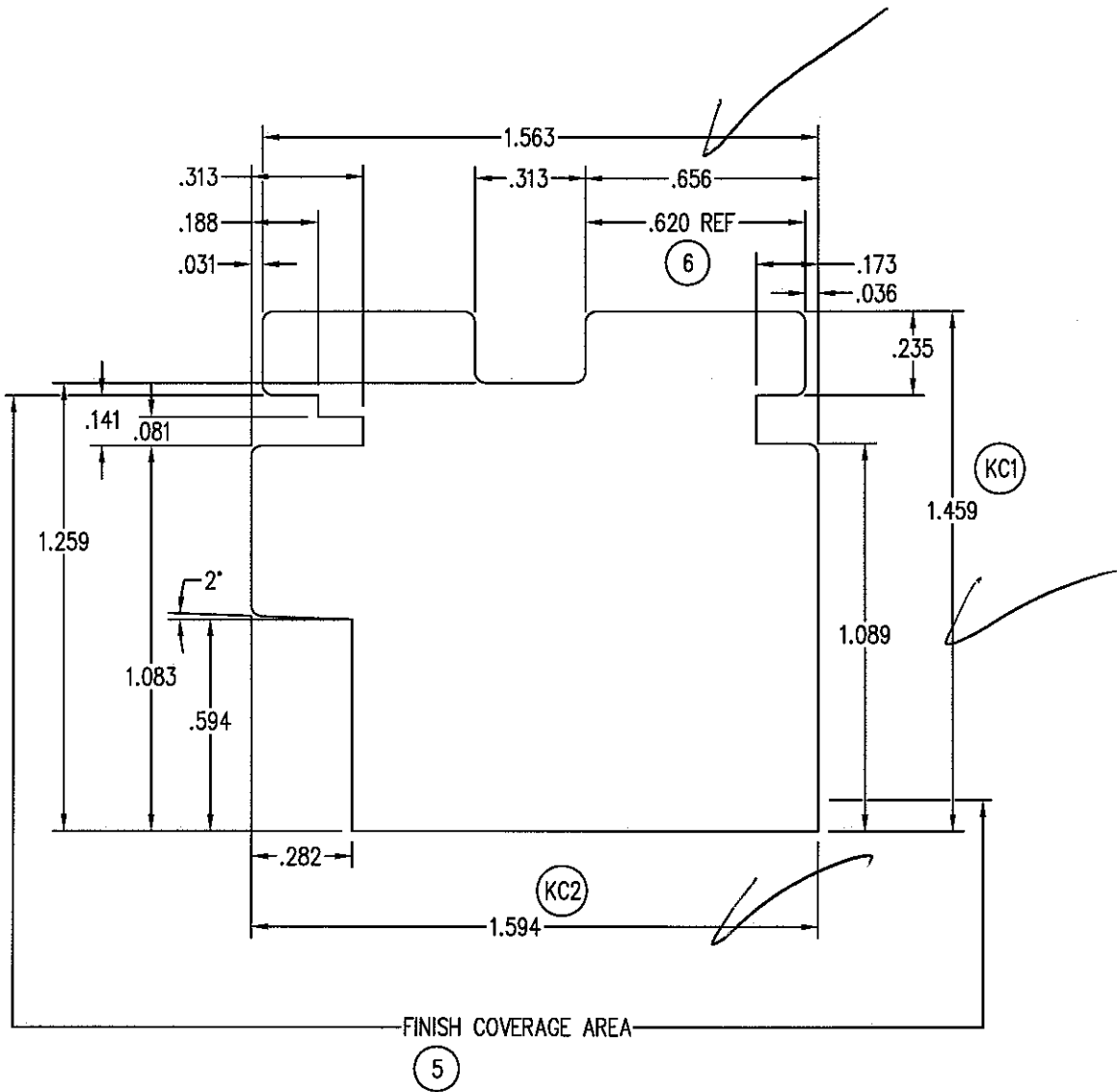
Test sample complies with these details.
Deviations are noted.

Report# 73103, 73104
Date 5/14/02 Tech TG



01	CHANGED OVERALL HEIGHT AN ADDED I.D. NOTCH	TWN	0927A	3/9/2005
NO	Description of Change	Drafter	DCN#	Date
Title: CSMT/AWN SILL COVER CONCEALED LOCK		Finish:		Material
Scale: 1/2"=1"		Date: 9/23/2004		THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.
Drafter: pblasen	DCN# 0927	REVISION: 1	223N 01 of 05	

Note: 1 UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.+/- .005, FRACTION +/- 1/64, ANGLES +/- 1/2.



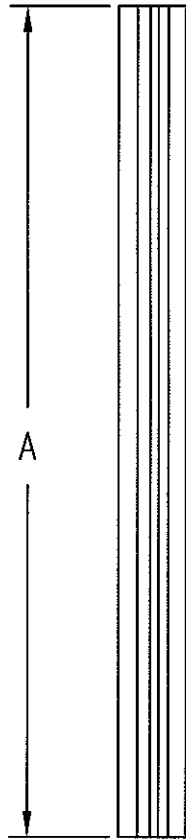
Architectural Testing

Test sample complies with these details.
Deviations are noted.

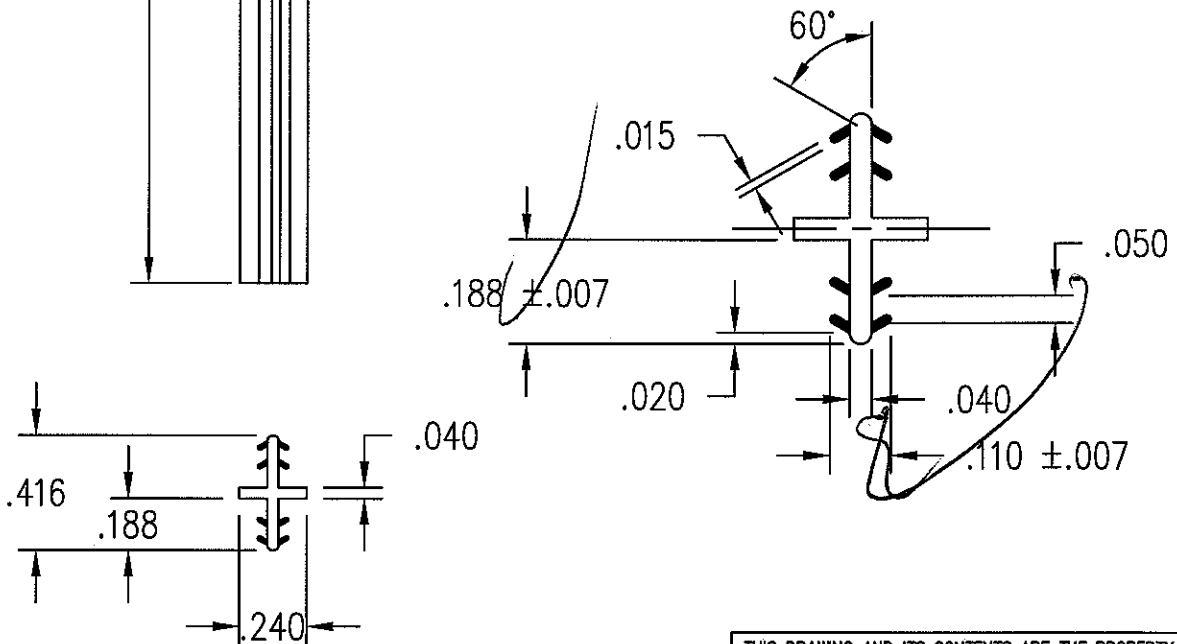
Report# 73103, 73104
Date 5/14-16/07 Tech JL

06	ADDED DIMENSION	TWN	TRKR	9/13/2006
05	ADDED COVERAGE AREA	JH	0924	9/17/2004
NO	Description of Change	Drafter	DCN#	Date
Title: CLAD CSMT RAIL		Material: EAGLE'S STD WOOD SPECIES		
Finish:				
Scale: 1/2"=1"	Date: 8/7/1995	THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.		REVISION: 21DE
Drafter: CEL	DCN# 0154			6 01 of 02

NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ± 0.005 ; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.



SPLINE LENGTH	P/N
1"	CFS1
3"	CFS3
6"	CFS6
12"	CFS12
20"	CFS20
34"	CFS34
55"	CFS55
70"	CFS70



Test sample complies with these details.
Deviations are noted.

Report# 73103, 73104
Date 5/14-16/07 Tech SG

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TITLE: CONCEALED FASTENER SPLINE

FINISH:

MATL:

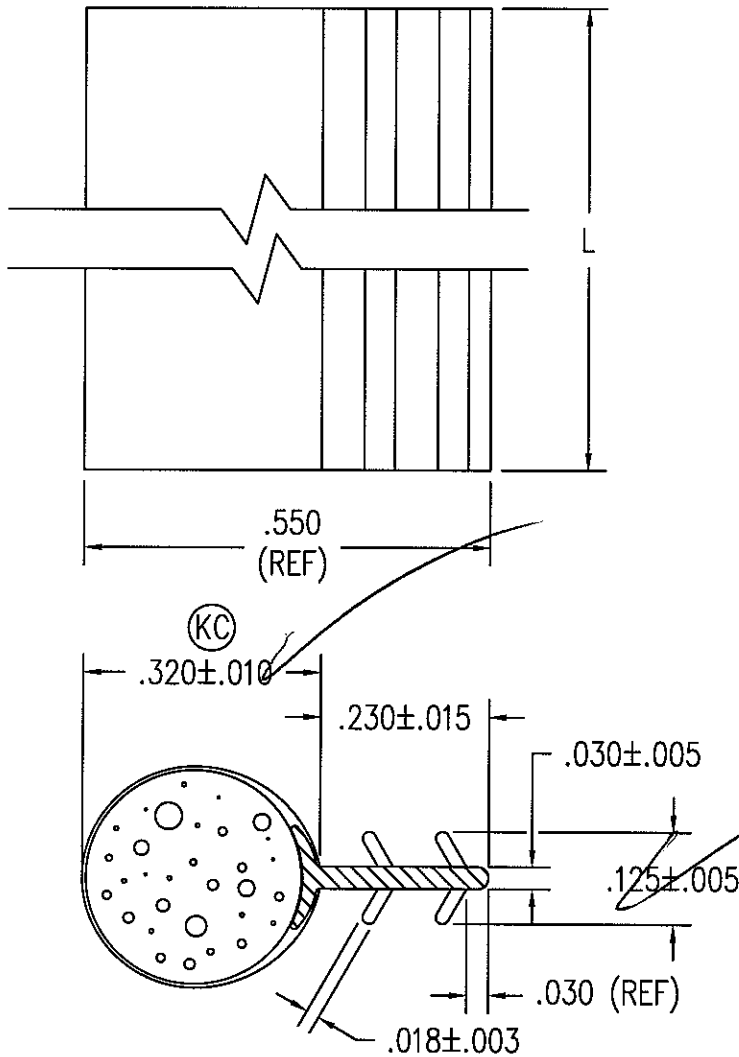
DFT: bager SCALE: 1.5=1

DCN: 0925 DRWG: A67E

DATE: 9/21/2004 A 01 OF 01

NO	DESCRIPTION	DFT	DOC	DATE

- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ± 0.005 ; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
2. $L = ((\text{FRAME HEIGHT} + \text{FRAME WIDTH}) \times 2) - 8 \text{ } 11/16"$ (CASEMENT, AWNING, AND CLAD FRENCH CSMT)
- L (RADIUS CSMT) = USE THE SAME DIMENSIONS AS A NON-RADIUS UNIT OF SAME OVERALL SIZE.
3. MATERIAL: CORE - CLOSED CELL TSE FOAM
 BASE - POLYPROPYLENE COATING
 SKIN - #60 DUROMETER (15% SLIP ADDITIVE) 1
 COMPRESSION FORCE (BY .150) = 13-19 LB/FT.



Test sample complies with these details.
 Deviations are noted.

Report# 73103/73104
 Date 5/14/16/02 Tech 16

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TITLE: BULB WEATHERSTRIP (.320) CASEMENT

FINISH: TAN
 PART #12202

MATL: SEE NOTE 3

02	ADDED FRENCH CASEMENT	RJW	0640	10/14/03	DFT: AWW	SCALE: 4=1
01	ADDED SLIP NOTE	AWW	0795	6/4/2003	DCN: 0679	DRWG: A55N
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 5/15/2002	A 01 OF 01

