Architectural Testing

PERFORMANCE TEST REPORT

Rendered to:

EAGLE WINDOW & DOOR, INC.

SERIES/MODEL: 3060 Series 02 Clad Casement Vent with Piano Hinge
PRODUCT TYPE: Aluminum Clad Wood Casement Window

Title	Summary of Results
Operating Force (In motion)	10 N (2.3 lbf)
Air Infiltration	<0.05 L/s/m^2 (<0.01 cfm/ft^2)
Water Resistance Test Pressure	510 Pa (10.5 psf)
Uniform Load Deflection Test Pressure	3360 Pa (70.0 psf)
Uniform Load Structural Test Pressure	±5040 Pa (±105.0 psf)
Forced Entry Resistance	Grade 10

Reference should be made to Architectural Testing, Inc. Report No. 75731.01-201-44 for complete test specimen description and data.

849 Western Avenue North
St. Paul, MN 55117
phone: 651-636-3835
fax: 651-636-3843
www.archtest.com

Architectural Testing

PERFORMANCE TEST REPORT

Rendered to:

EAGLE WINDOW & DOOR, INC.
2045 Kerper Boulevard
Dubuque, Iowa 52001

Report No.:	75731.01-201-44
Test Dates:	08/06/07
Through:	08/07/07
Report Date:	08/21/07
Expiration Date:	08/06/11

Project Summary: Architectural Testing, Inc. was contracted by Eagle Window & Door, Inc. to perform testing on a Series/Model 3060 Series 02 Clad Casement Vent with Piano Hinge, Aluminum Clad Wood Casement window. Test specimen description and results are reported herein. The sample was provided by the client.

Test Methods: The test specimen was evaluated in accordance with the following:

ASTM E 283-04, *Test Method for Determining Rate of Airflow Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen.*

ASTM E 330-02, *Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.*

ASTM E 547-00, *Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Difference.*

ASTM F 588-04, *Test Methods for Resistance of Window Assemblies to Forced Entry Excluding Glazing.*

Test Specimen Description:

Series/Model: 3060 Series 02 Clad Casement Vent with Piano Hinge

Product Type: Aluminum Clad Wood Casement window

Overall Size: 914 mm (36") wide by 1829 mm (72") high

Sash Size: 870 mm (34-1/4") wide by 1791 mm (70-1/2") high

Overall Area: 1.7 m^2 (18.0 ft^2)

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Test Specimen Description: (Continued)

Finish: Interior wood was natural, exterior cladding was painted.

Frame Construction: The wood frame was comprised of laminated veneer lumber with corners square-cut, butted, sealed with silicone and secured with two 16-gauge, 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 #8 by 11 mm (7/16") screws per corner.

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:

Description	Quantity	Location
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 two double strength sheets of annealed glass separated by a desiccant-filled metal spacer system. The glass was set from the interior against a hot-melt glazing sealant. Wood glazing stops with single-sided adhesive foam tape were utilized on the interior and secured with 32 mm (1-1/4") 18- gauge brads spaced 25 mm (1") from each corner and 152 mm (6") to 203 mm (8") on center.

Hardware:

Description	Quantity	Location
Stainless steel piano hinge	1	Continuous length on hinge side
Single-bar actuator with lock and keepers	1	305 mm (12") from the top and the bottom, and midspan of the sash
Casement roto-operator	1	Sill

Test Specimen Description: (Continued)

Installation: The window was installed within a wood test buck and secured with installation straps. The installation straps were secured to the window frame with two #8 by 16 mm (5/8") screws and to the buck with two #8 by 38 mm (1-1/2") screws, two on the interior and two on the exterior. The installation straps were spaced 152 mm (6") from each corner on the head and sill and (6") from each corner and midspan on the jambs. The unit was additionally secured through the nail flange with 51 mm (2") roof nails spaced 102 mm (4") from each corner and 203 mm (8") on center. The nail flange was sealed to the buck with silicone.

Test Results: The temperature during testing was 26°C (78°F). The results are tabulated as follows:

Test Method	Title of Test	Results
	Operating Force	
	Initiate motion	10 N (2.3 lbf) max.
	Maintain motion	10 N (2.3 lbf) max.
ASTM E 283	Air Infiltration	
	1.60 psf (25 mph)	<0.05 L/s/m^2 (<0.01 cfm/ft^2)
	6.27 psf (50 mph)	0.05 L/s/m^2 (0.01 cfm/ft^2)
ASTM E 547	Water Resistance	
	510 Pa (10.5 psf)	No leakage
ASTM E 330	Uniform Load Deflection	
	(Deflections reported were taken on the sash top rail)	
	(Loads were held for 60 seconds)	
	3360 Pa (70.0 psf) (positive)	1.02 mm (0.04")
	3360 Pa (70.0 psf) (negative)	3.56 mm (0.14")
ASTM E 330	Uniform Load Structural	
	(Permanent sets reported were taken on the sash top rail)	
	(Loads were held for 10 seconds)	
	5040 Pa (105.0 psf) (positive)	0.25 mm (0.01")
	5040 Pa (105.0 psf) (negative)	<0.25 mm (<0.01")

Test Results: (Continued)

Test Method	Title of Test	Results
ASTM F 588	Forced Entry Resistance Type: B	 Grade: 10
	Disassembly Test	No entry
	Tests B1 through B3	No entry
	Sash/Panel Manipulation Test	No entry
	Lock Hardware Manipulation Test	No entry

***General Note**: Upon completion of testing, the specimens met the requirements of the referenced standards.*

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.

Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing, Inc. and are representative of the test specimen reported herein.

List of Official Observers:

Name	Company
Chad Cornell	Eagle Window & Door, Inc.
Mike Blum	Eagle Window & Door, Inc.
Anthony D. Gavin	Architectural Testing, Inc.
Karl A. Lips-Eakins	Architectural Testing, Inc.
Eric J. Schoenthaler	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 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. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen can be made. 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:

Digitally Signed by: Eric Schoenthaler

Eric J. Schoenthaler
Project Manager

Digitally Signed by: Daniel A. Johnson

Daniel A. Johnson
Director - Regional Operations

EJS/mb

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Drawings (18)

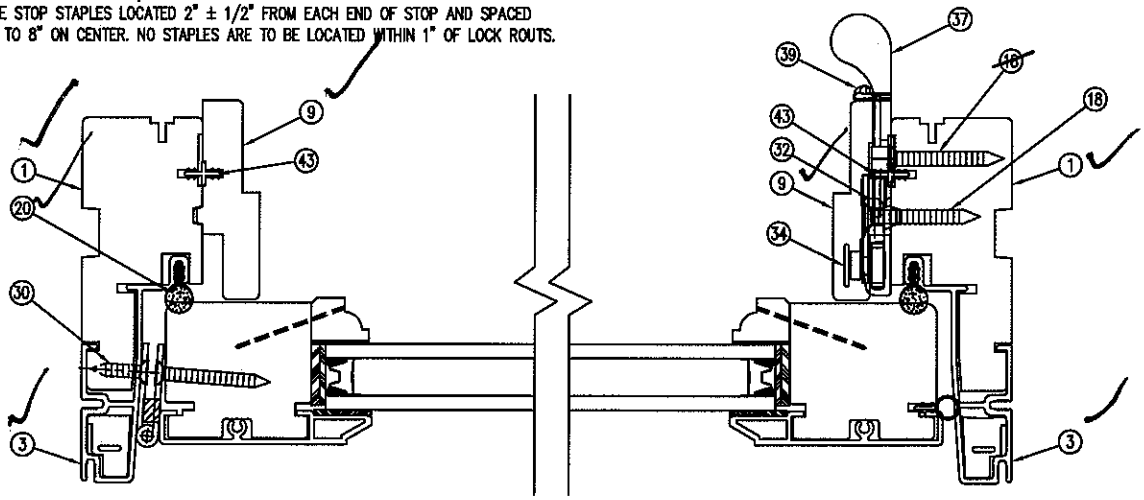
Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	08/21/07	N/A	Original report issue.

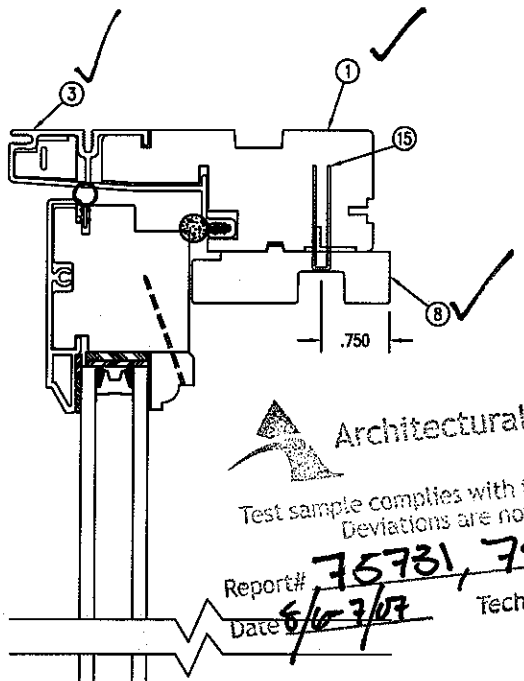
Appendix A

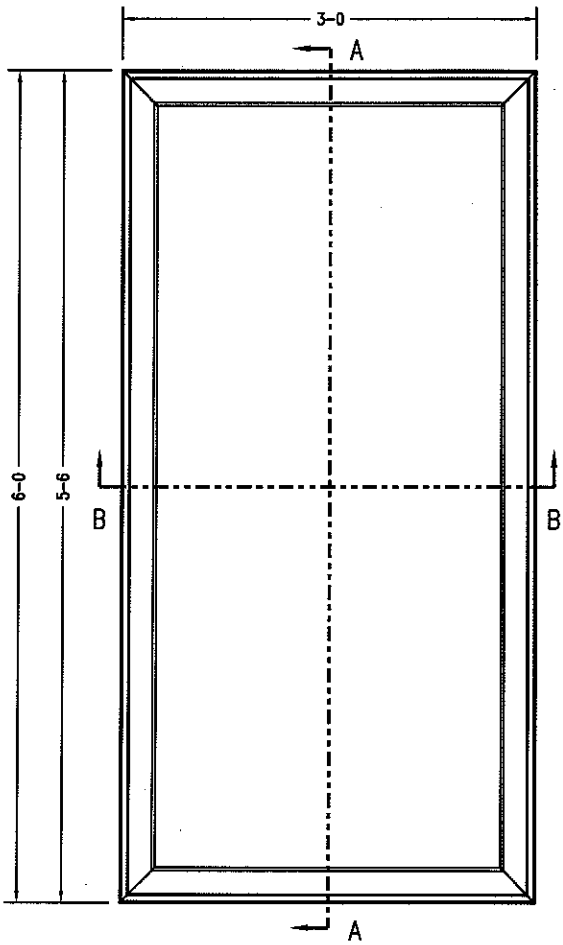
Drawings

NOTE: 1. STAPLES TO BE 0 TO 1/32" BELOW SIDE STOP SURFACE.
2. SIDE STOP STAPLES LOCATED 2" ± 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.

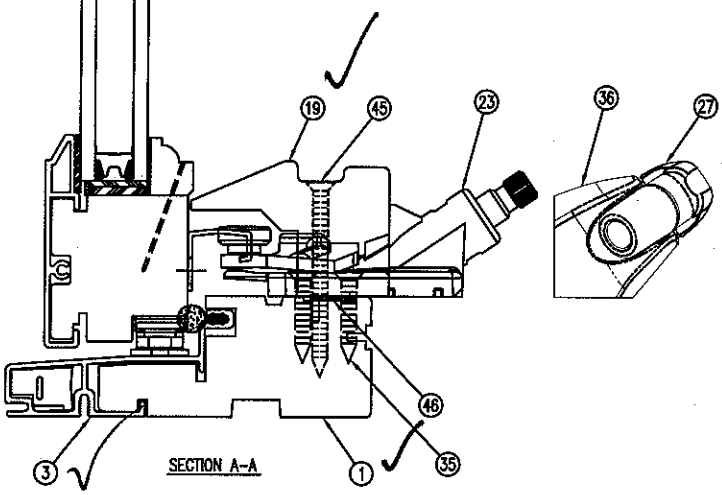


SECTION B–B





EXTERIOR VIEW



SECTION A–A

Architectural Testing

Test sample complies with these details.
Deviations are noted.

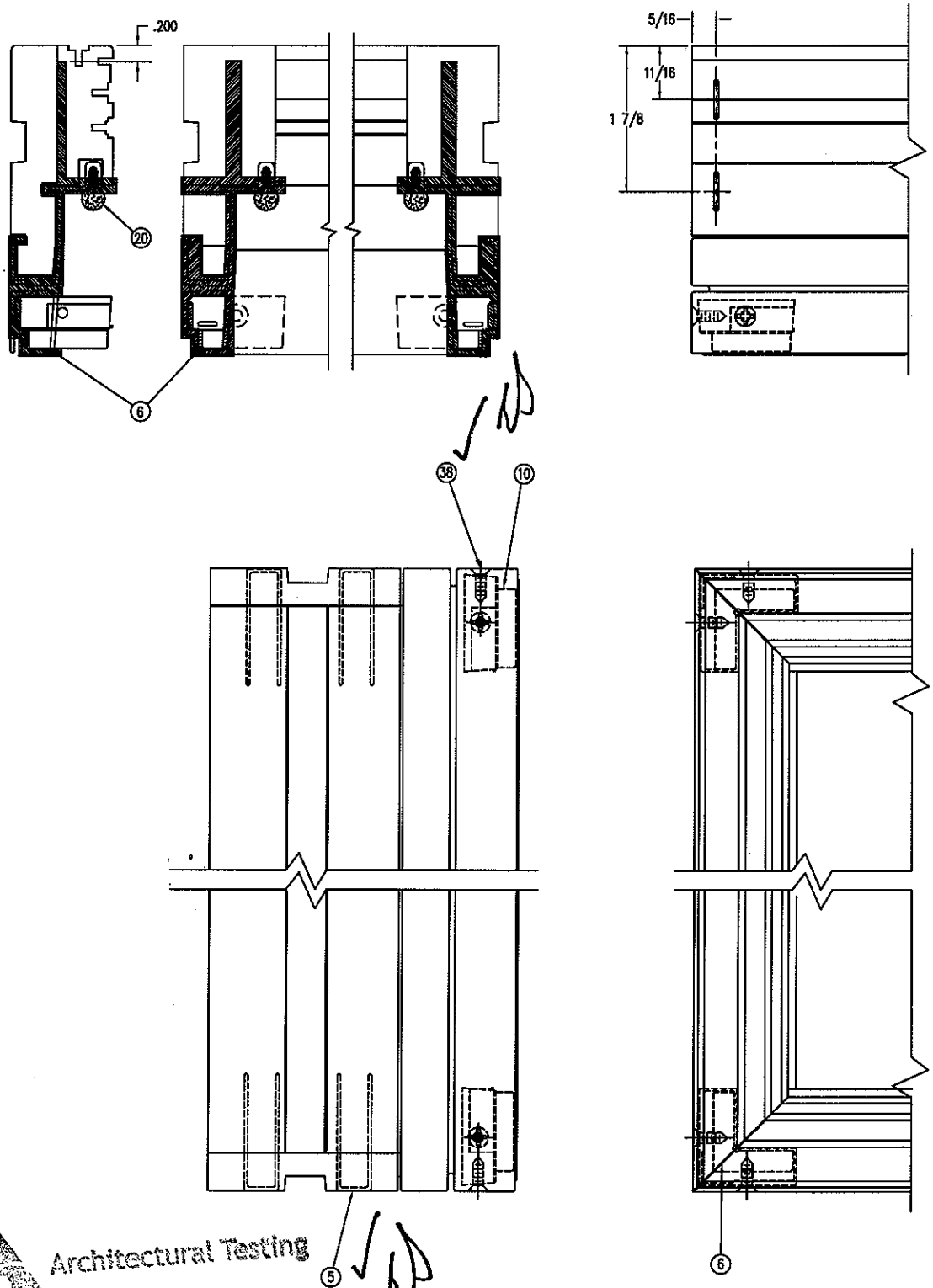
Report# 75731, 75732

Date 6/6/7/07 Tech

TITLE:	CCV W/ PIANO HINGE UNIT ASSEMBLY	
FINISH:		
MATL:		
DFT: CRC	SCALE: 1=2	
DCN: 0710	DRWG: 054M	
DATE: 7/17/07	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.

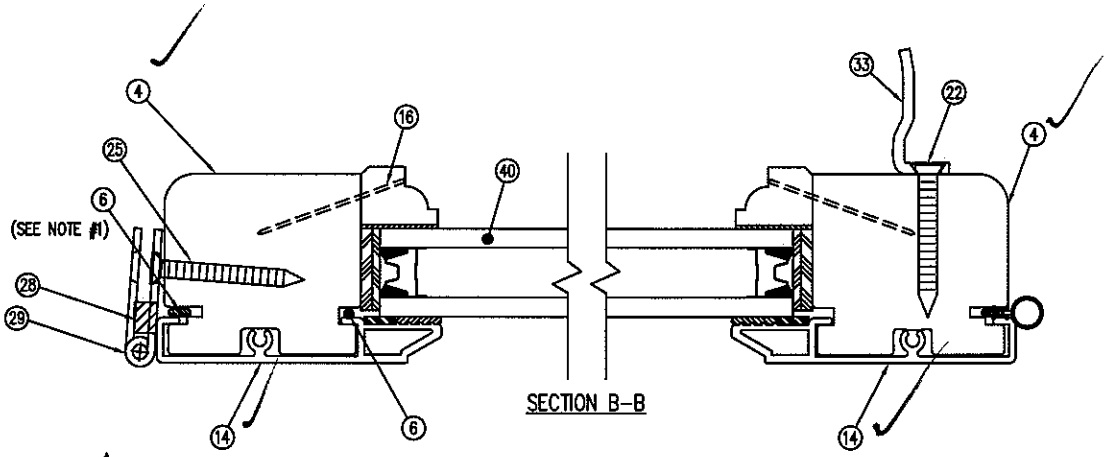
Report# 75731 & 75732

Date 5/6-7/07 Tech

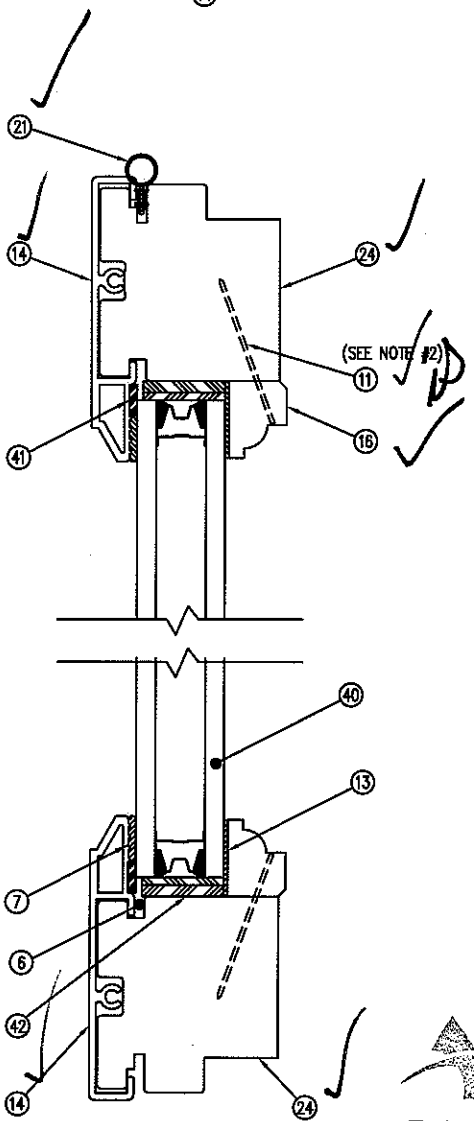
NO	DESCRIPTION	DFT	DOC	DATE

TITLE:	CCV W/ PIANO HINGE UNIT ASSEMBLY
FINISH:	
MATL:	
DFT: CRC	SCALE: 1=2
DCN: 0710	DRWG: 054M
DATE: 5/30/07	C 02

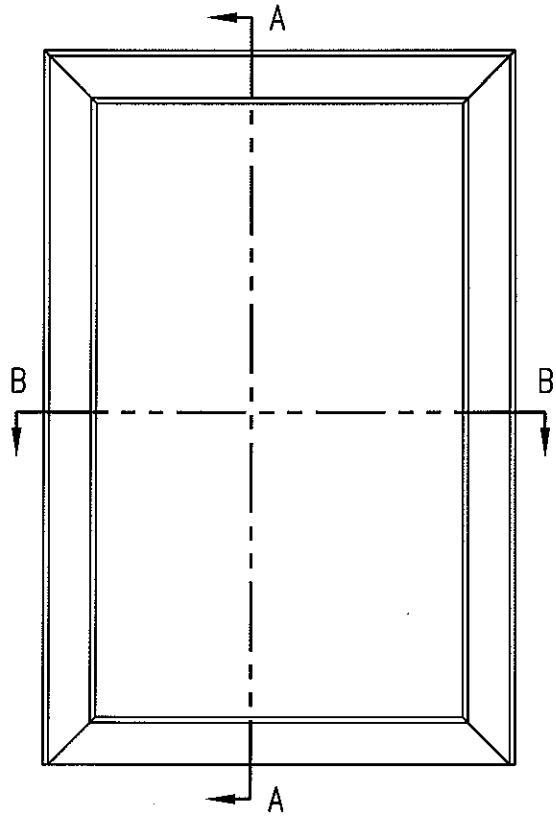
NOTE: 1. SILICONE SEALANT TO BE APPLIED TO THE CORNERS OF THE SASH BULB GROOVE PRIOR TO INSERTING THE BULB WEATHERSTRIP. THE SEALANT SHOULD FILL THE GROOVE FOR APPROX. 1/8" LENGTH FROM EACH CORNER.
2. BRADS TO BE 1/32" TO 1/16" BELOW GLAZING STOP SURFACE. LOCATED 1" FROM EACH CORNER, SPACED 6 TO 8" ON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



SECTION B-B



SECTION A-A



EXTERIOR VIEW

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 75731 & 75732

Date 6/6-7/07 Tech S/ D

NO	DESCRIPTION	DFT	DOC	DATE

TITLE: CCV W/ PIANO HINGE SASH ASSEMBLY

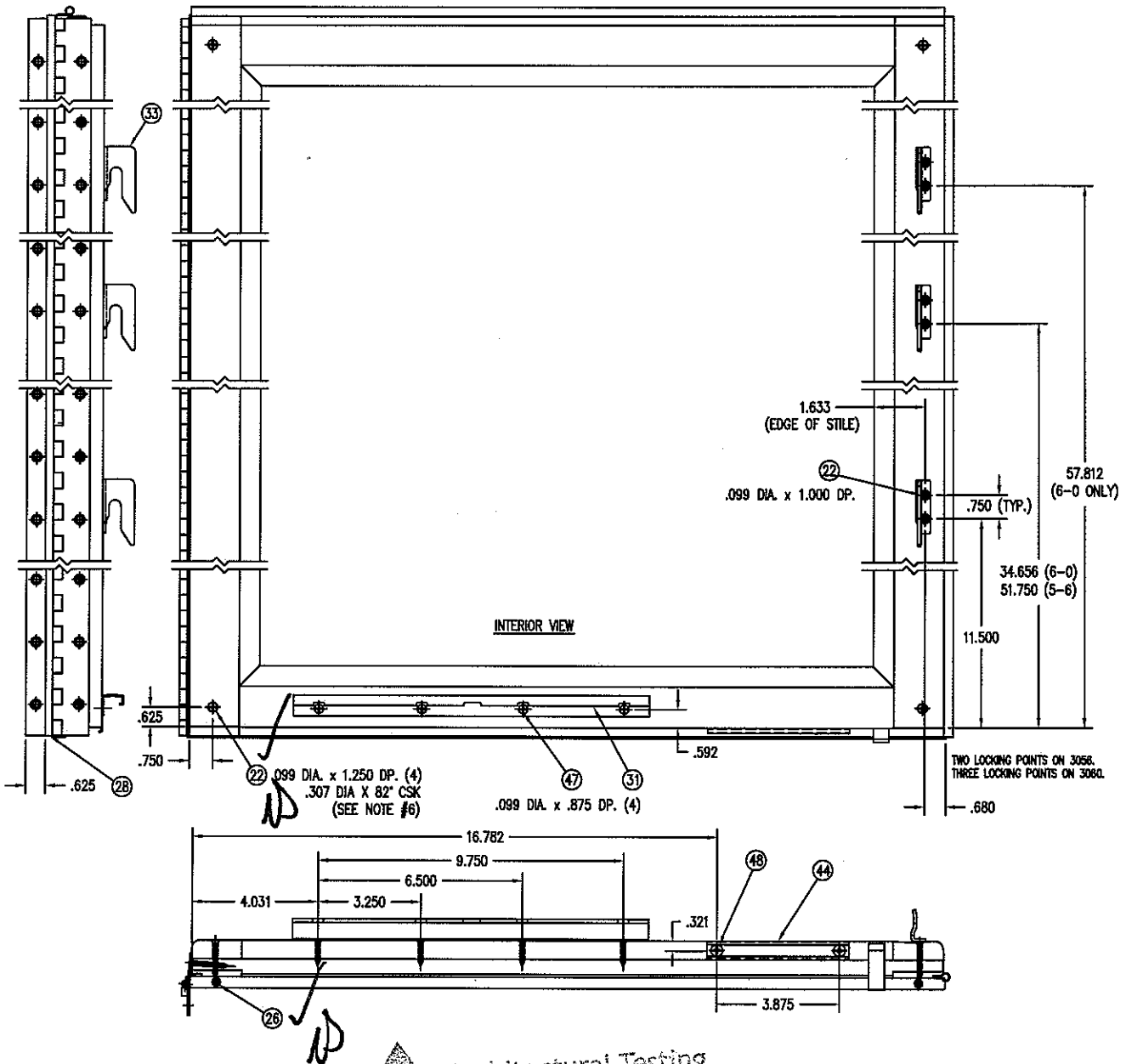
FINISH:

MATL:

DFT: CRC SCALE: 1=1 1/2

DGN: 0710 DRWG: 054M

DATE: 7/17/07 C 03



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 75731 & 75732

Date 8/6-7/07 Tech

TITLE:	CCV W/ PIANO HINGE SASH ASSEMBLY
FINISH:	
MATL:	
DFT: CRC	SCALE: 1=5
DCN: 0710	DRWG: 054M
DATE: 7/17/07	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 COUNRTY SALES
11	A40F	1 1/4" HARDENED STEEL BRAD - 18 GA.	AS REQUIRED	STEEL	ABILITY FASTENERS
12	A08W	CORNER KEY	4	ABS COMPOUND	LAKE COUNRTY SALES
13	A67M	ADHESIVE TAPE (5/8") (SINGLE SIDE)	AS REQUIRED	POLYTHYLENE	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	POLYETHELENE	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		INSULATED 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" PFHSMS 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	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	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 TA	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
65	A67N	7/8" MDL ADHESIVE TAPE (INTERIOR TA	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 TA	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
70	A75M	5/8" MDL ADHESIVE TAPE (INTERIOR TA	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# 75731 & 75732

8/6-7/07 Tech

NO	DESCRIPTION	DFT	DOC	DATE

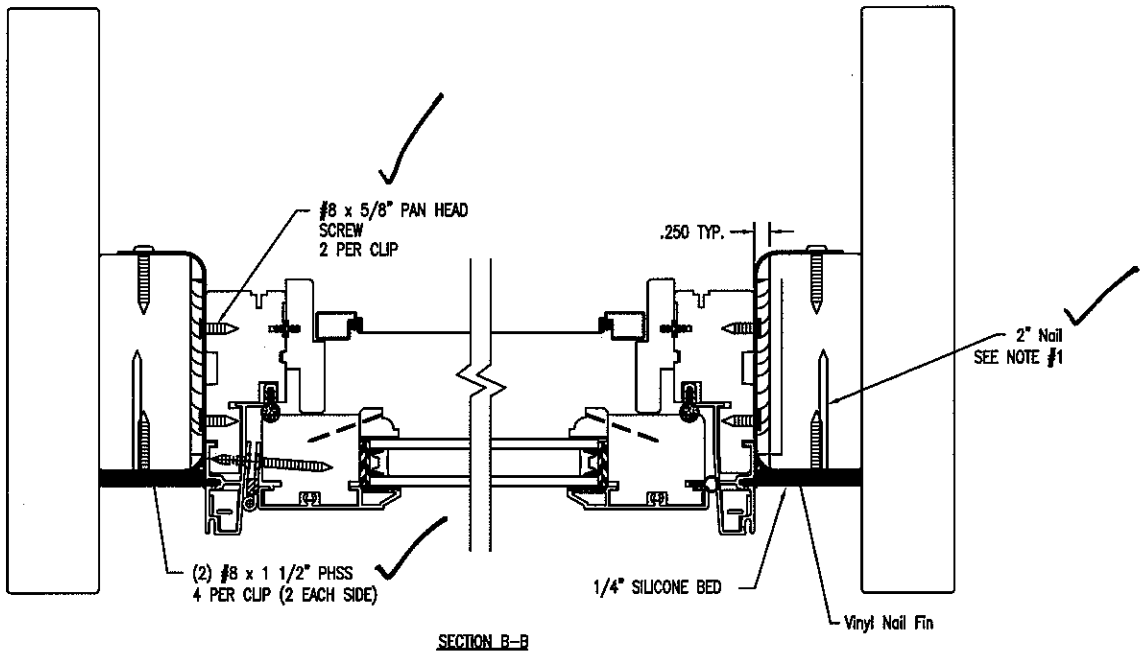
TITLE: CCV UNIT ASSY. W/PIANO HINGI

FINISH:

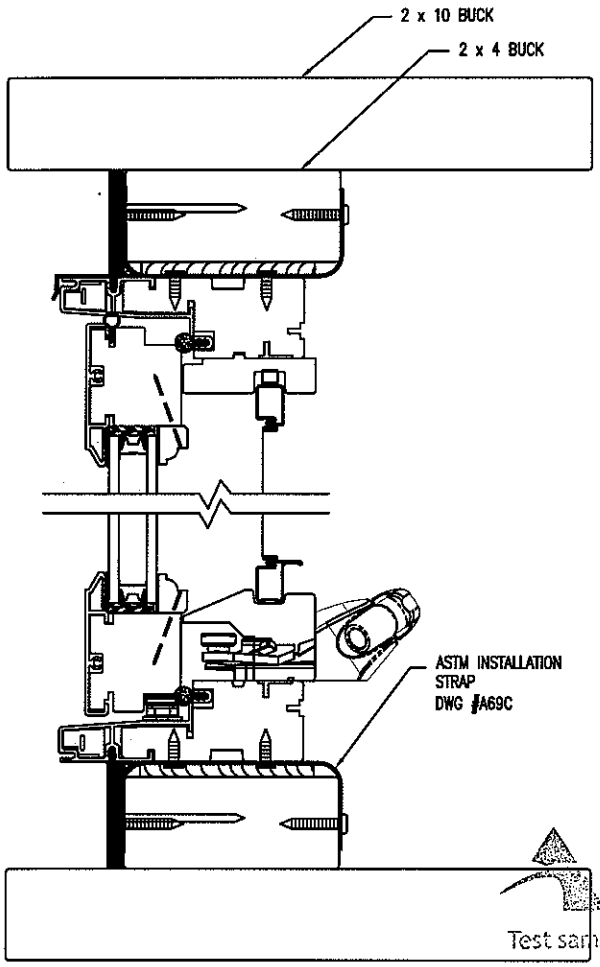
MATL:

DFT: CRC	SCALE: 1=1
DCN: 0710	DRWG: 054M
DATE: 7/17/07	C 07

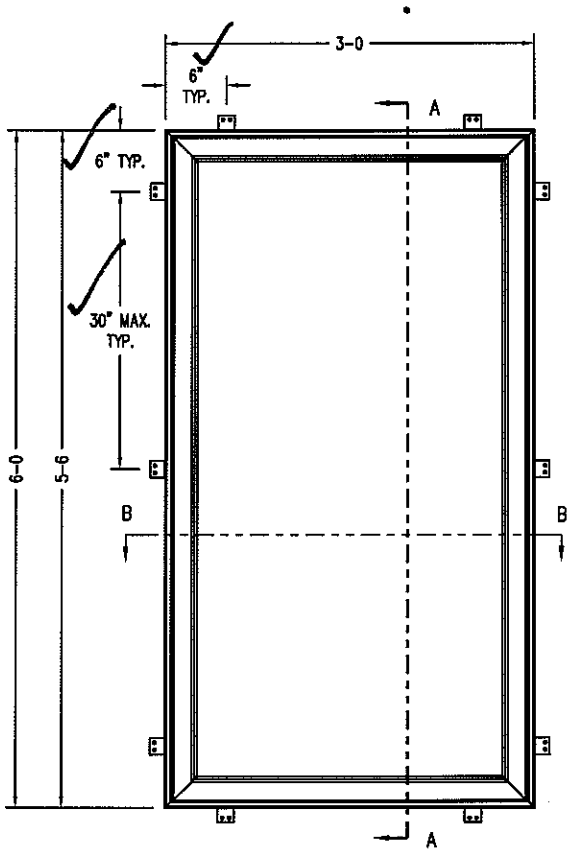
1. CENTER NAIL FIN, PLACE NAIL IN FIRST HOLE AND THEN EVERY OTHER THERE AFTER. 2" ROOFING NAILS THROUGH NAIL FIN INTO WALL.



SECTION B-B



SECTION A-A



CLAD CASEMENT EXTERIOR VIEW

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 75731 & 75732

Date 5-4-7/07 Tech

TITLE: CLAD CASEMENT VENT W/PIANO HINGE INSTALLATION DETAIL

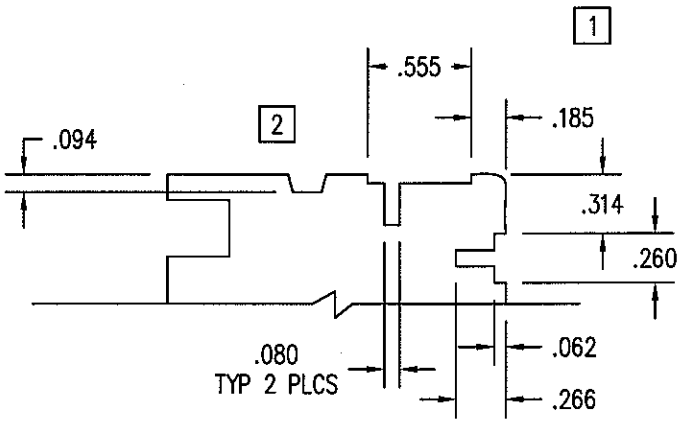
FINISH:

MATL:

DFT:	CRC	SCALE:	1=3
DGN:	1099	DRWG:	054J
DATE:	5/21/07	C	02

NO	DESCRIPTION	DFT	DOC	DATE

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.

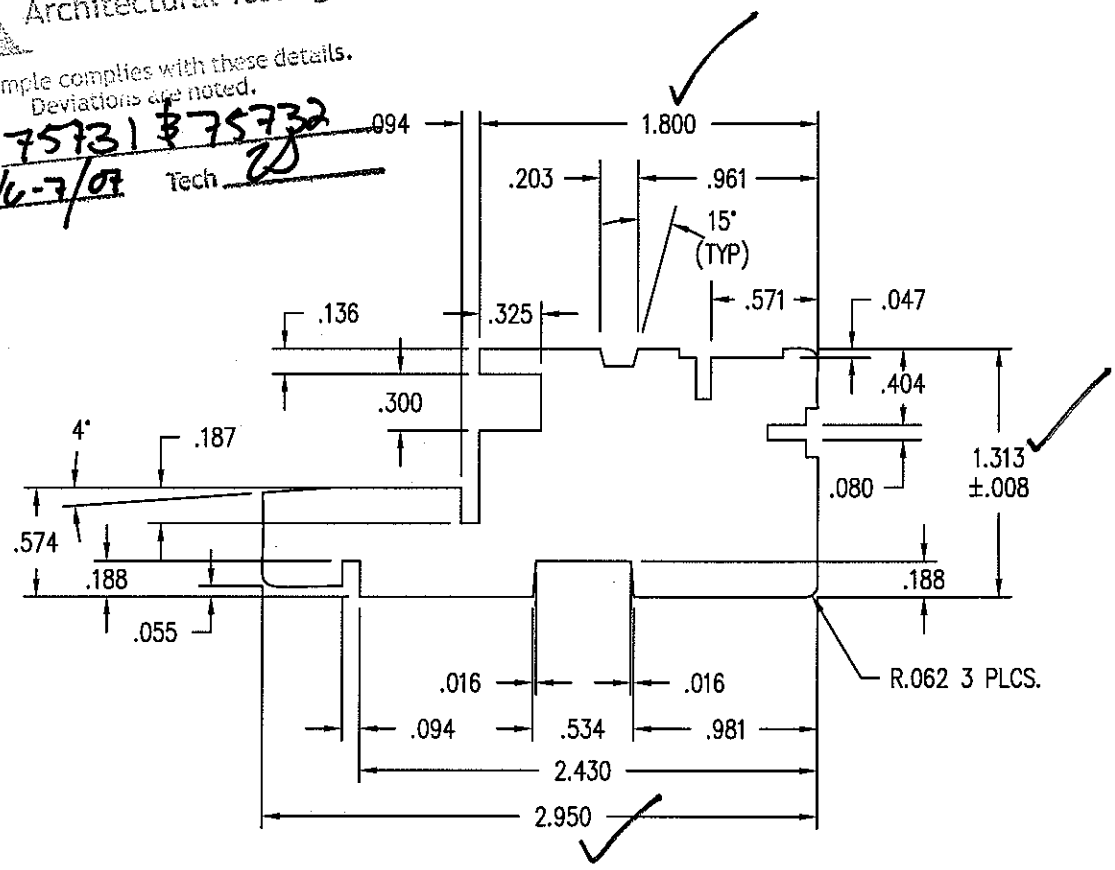


Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 75731 & 75732

Date 8/6-7/07 Tech JS



NO	Description of Change	Drafter	DCN#	Date
02	REMOVED 2 KERFS	RDA	1005	11/30/05
01	REVISED PROFILE – ADDED CONCEALED FASTENER ROUT	RDA	0925	09/30/04

Title: JAMB CCV-CCF-CAV	Finish:	Material	SEE PAGE 02
Scale: 1=1	Date: 5/28/2002		
Drafter: JMH	DCN# 0925		

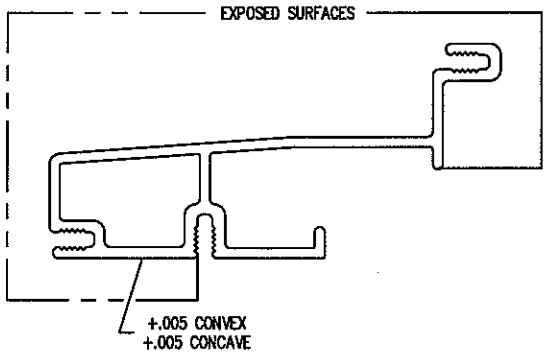
REVISION: 2

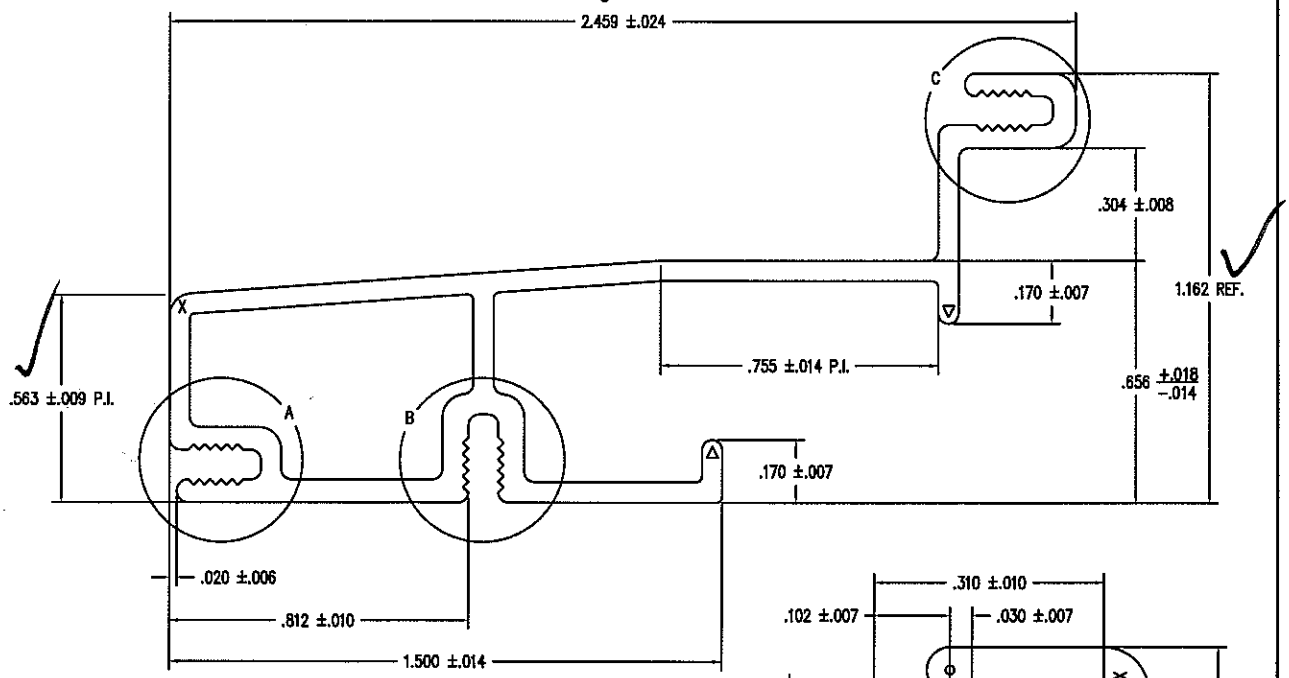
220L

42,43,44,49,50,56,57,58

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°.
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 .062 (6)
△ FULL RAD.(2)

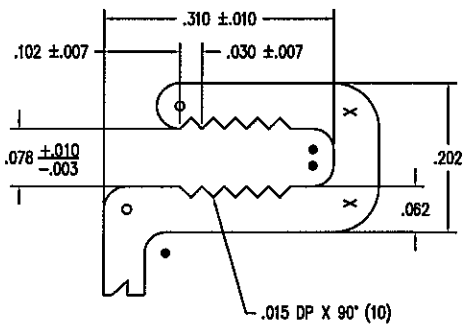




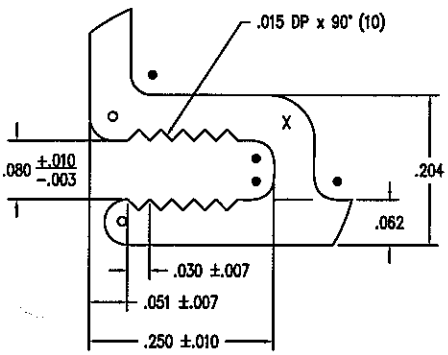
Architectural Testing

Test sample complies with these details.
Deviations are noted.

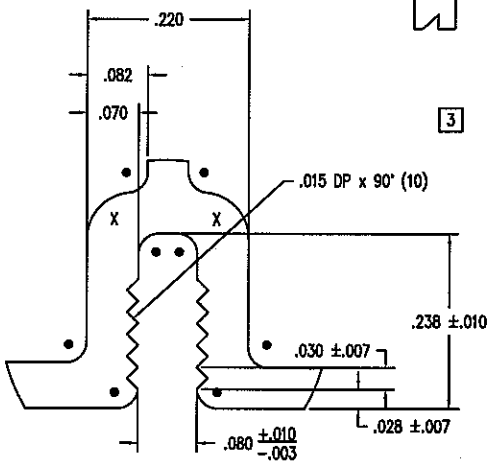
Report# 75731375732
Date 6/6-7/07 Tech



3 DETAIL "C"



DETAIL "A"

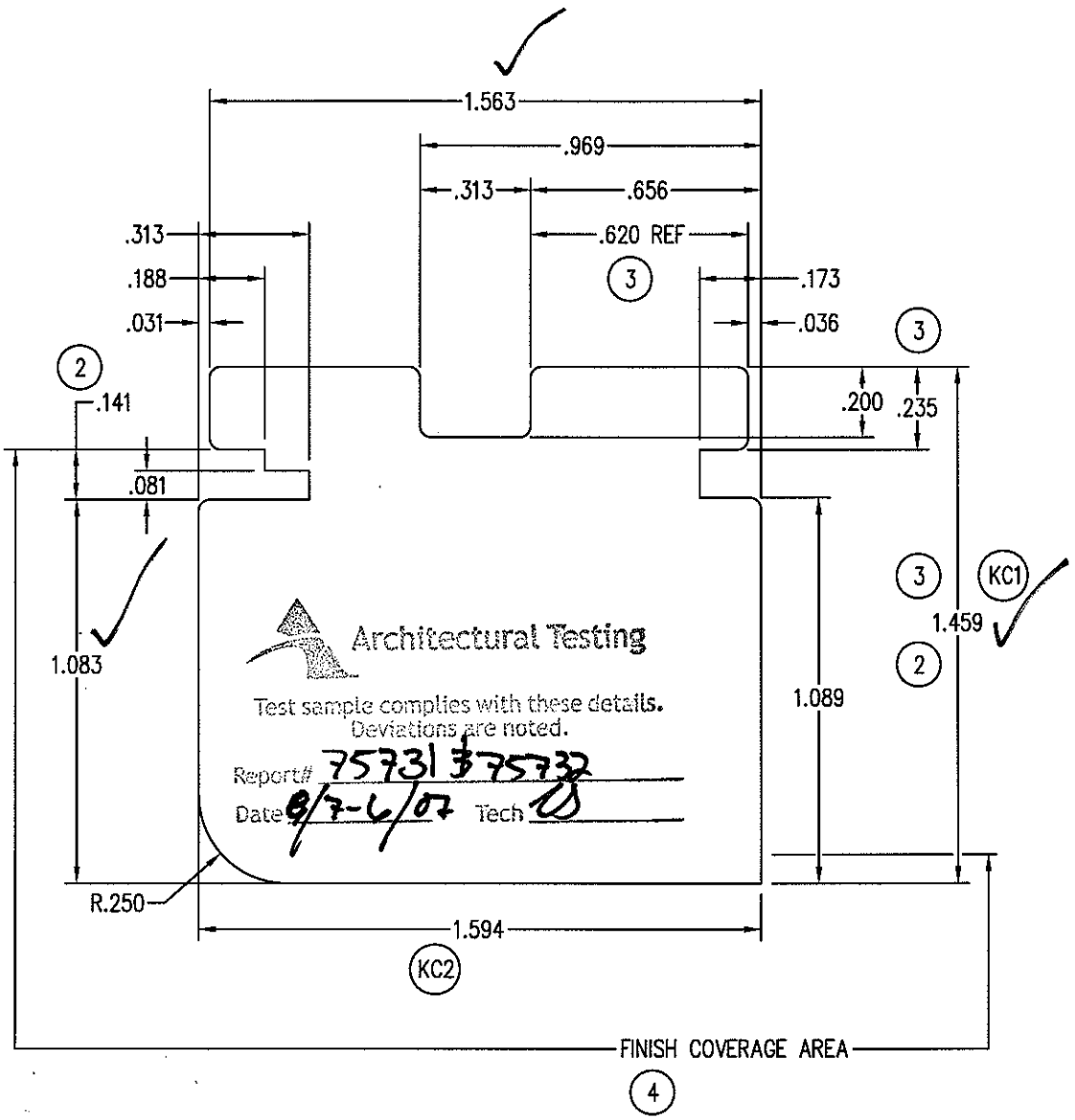


DETAIL "B"

NO	DESCRIPTION	DFT	DOC	DATE
05	ADDED/CHG'D DIM. & TOLERANCE	TWN	0778	4/4/2003
04	ADDED TOLERANCE SPECS	TWN	0595	8/31/2001
03	REVISED PROFILE	CEL	0368	11/27/1995
02	REVISED PROFILE	RDA	0272	9/17/1992
01	CHANGED NOTES	GDE	0048	8/7/1992

TITLE: FRAME COVER CLADDING
FINISH: EAGLE'S STD. COLORS
MATL: 6063 T-6 ALUMINUM OR EQUIVALENT
DFT: REL SCALE: 2=1
DCN: 0004 DRWG: A04A
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.



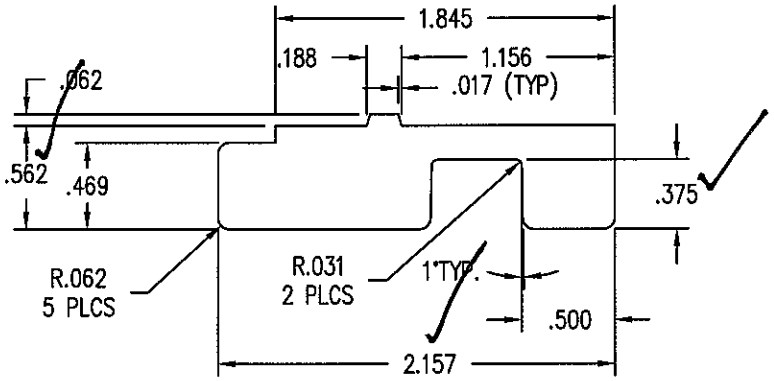
05	ADDED DIMENSION	TWN	TRKR	9/03/2006
04	ADDED COVERAGE AREA, AND CHANGED TITLE BLOCK	JH	0924	9/17/2004
03	REVISED DIMENSIONS	TWN	0874	3/12/2004
02	REVISED DIM'S	CEL	0394	4/15/1999
01	ADDED FINISH/MAT'L INFO	DJF	0300	4/9/1998
NO	Description of Change	Drafter	DCN#	Date

Title: CLAD CSMT STILE	Finish:	Material: CLEAR PINE	
Scale: 1/2"=1"	Date: 8/7/1995		REVISION: 5 — 21DF — 01 of 02
Drafter: CEL	DCN# 0154		

43,50,56,57,58

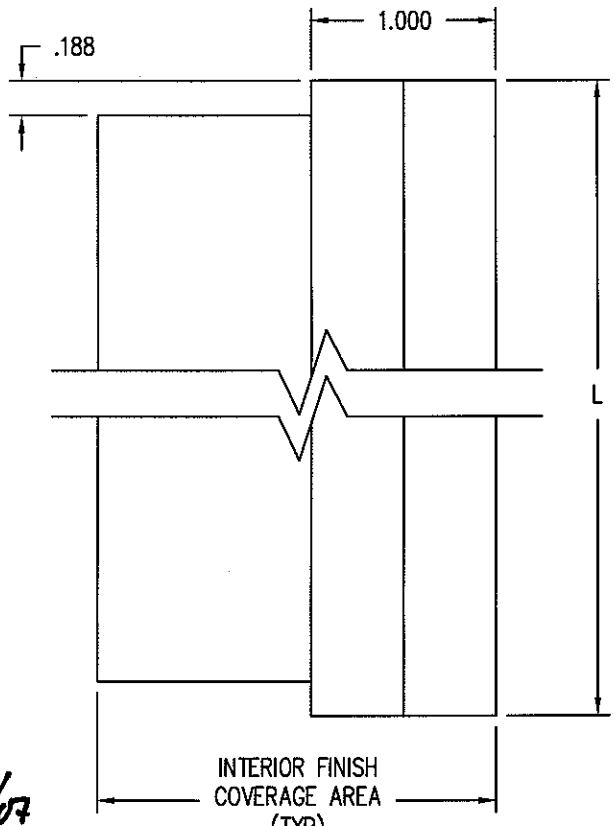
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.+/- .005, FRACTION +/- 1/64, ANGLES +/- 1/2.
2. CASEMENT, L = FRAME WIDTH - 3 1/2".
3. O/S VENTING SDLT, L = AFH - 3 3/4".
4. HOLD 1.062 AT TENON BEFORE MOULDING.

2 3



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

3 SEE NOTE #4



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

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 75731 & 75732 8/6-7/07

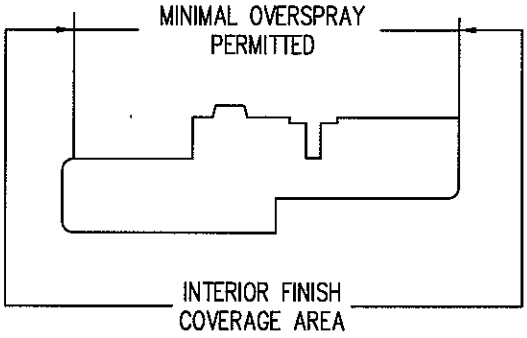
NO	Description of Change	Drafter	DCN#	Date
04	ADDED ~~OUTSWING VENTING~~ SIDELITE CHART	TWN	0952	03/31/06
03	REMOVE KERF	RDA	1000	01/10/05
02	REVISED PROFILE - ADDED CONCEALED FASTENER KERF	RDA	0925	02/22/05
01	ADDED NOTE #3	JH	0893	06/11/04

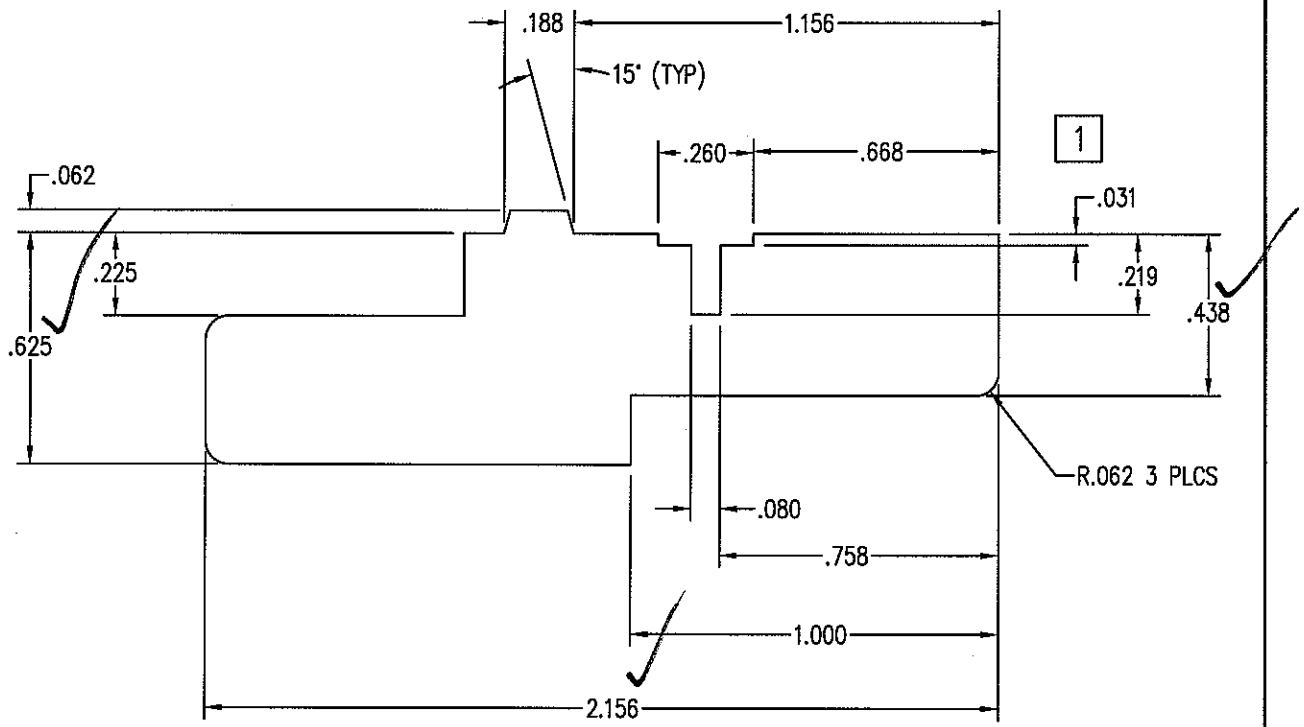
Title:	HEAD STOP	Finish: INTERIOR FINISH SEE A02F	Material EAGLE STANDARD SPECIES
Scale: 1=1	Date: 5/29/2002		
Drafter: JMH	DCN# 0681		

REVISION: 4 — **220T** — 01 of 01

56,58,59,62

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# 75731 \$75732

Date 5/6-7/07 Tech

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

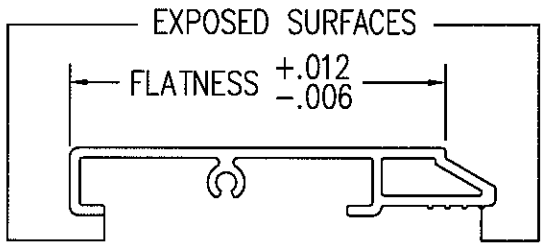
Title: CASEMENT CONCEALED LOCK HINGE SIDE STOP	Finish: STD. EAGLE FINISHES	Material STD WOOD SPECIES	
Scale: 2=1	Date: 3/6/2002		
Drafter: AWW	DCN# 0681		

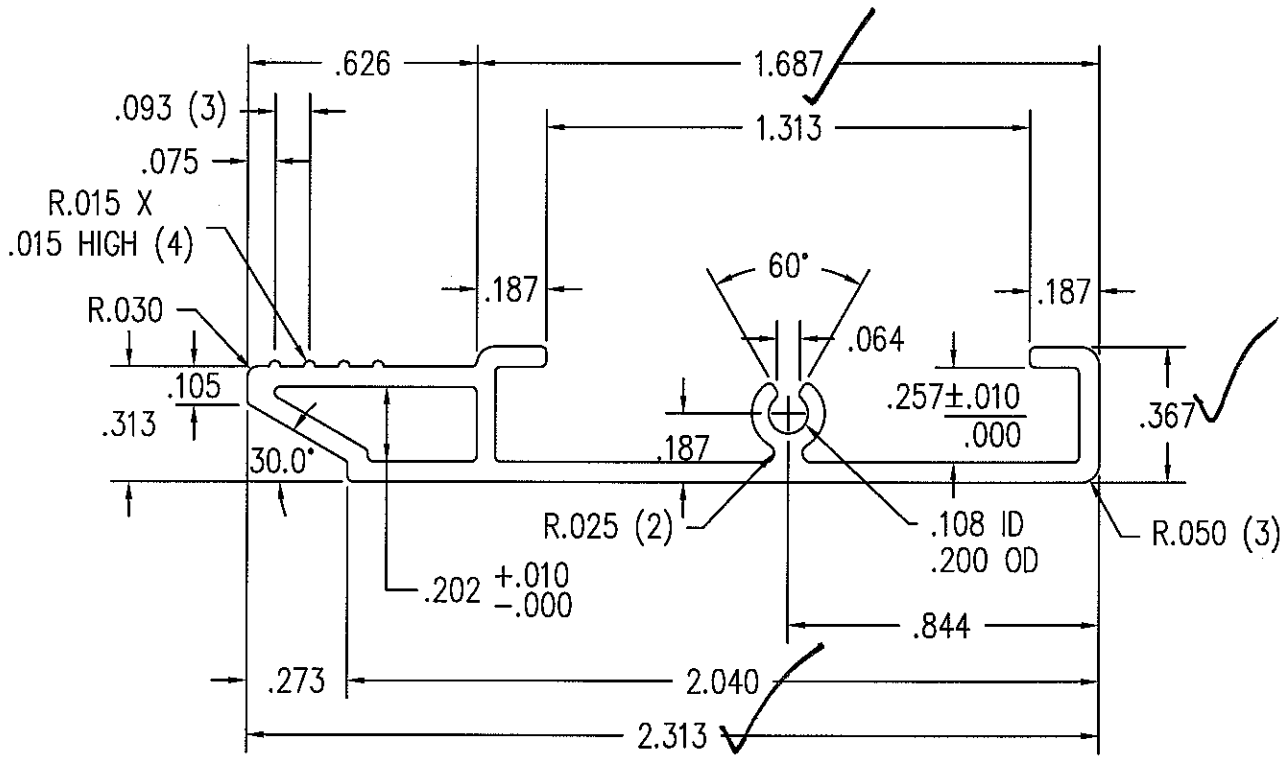
REVISION: 2

20C0

43,50,56,57,58

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°.
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# 75731 & 75732

Date 4/6-7/07 Tech

TITLE:	SASH CLADDING
FINISH:	EAGLE'S STD. COLORS
MATL:	6063-T6 ALUMINUM OR EQUIVALENT
DFT: REL	SCALE: 2=1
DCN: 0029	DRWG: A07L
DATE: 4/14/1992	A 01 OF 02

NO	DESCRIPTION	DFT	DOC	DATE
01	ADDED TOLERANCE SPEC'S	REL	0595	1/28/2002

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 .469	SINGLE GLAZED H. MSTR MONO	.680

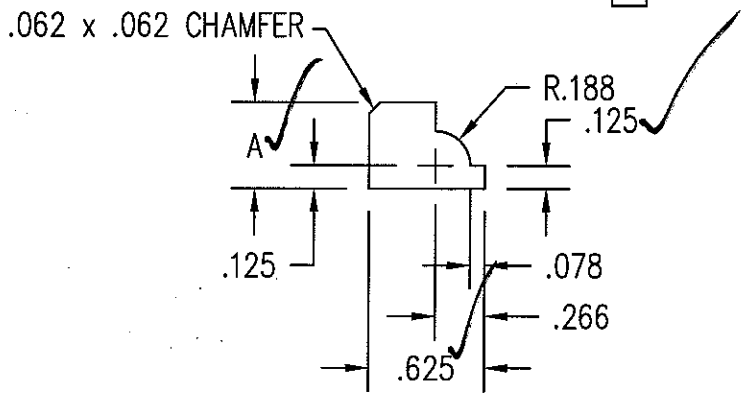
PANEL STOPS	
PRODUCT	A
WOOD OUTSWING SIDELITE	.469
WOOD OUTSWING TRANSOM	.469
WOOD INSWING SIDELITE	.469
WOOD INSWING TRANSOM	.469

2

1

Architectural Testing
Test sample complies with these details.
Deviations are noted.
Report# 75731 & 75732
Date 6-6-07
Tech

3



TITLE: COLONIAL GLAZING STOP

FINISH:

MATL: EAGLE STD WOOD OFFERINGS

DFT: JMH

SCALE: 1=1

DCN: 0650

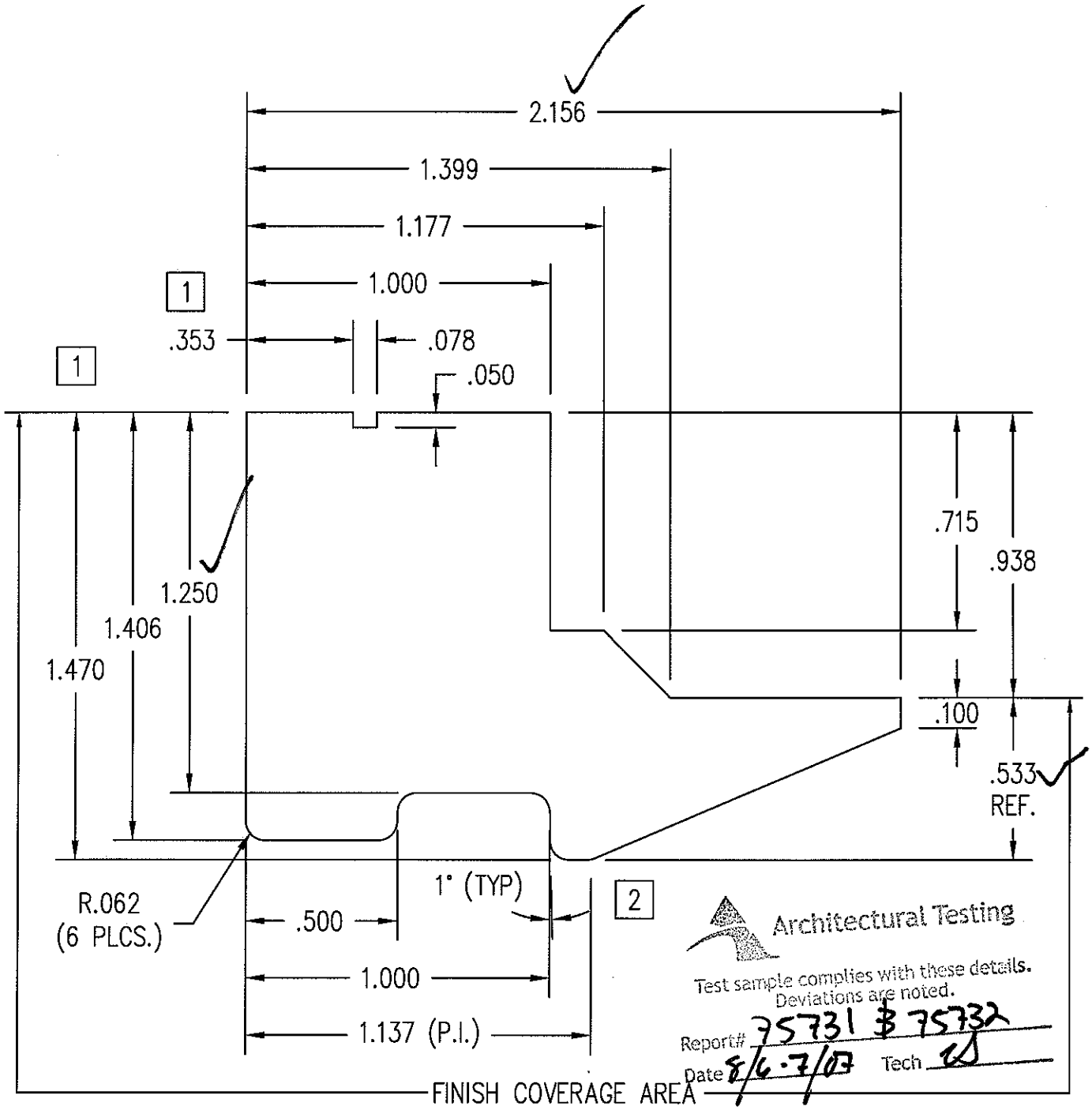
DRWG: 220J

DATE: 5/29/2002

A 01 OF 03

NO	DESCRIPTION	DFT	DOC	DATE
03	ADDED SIZE FOR IMPACT GLAZING	TWN	0972	9/1/05
02	CHG'D CLAD PANEL STOP "A" DIM	JH	0794	6/30/05
01	ADDED KYLER BLIND SIZE	TWN	0910	4/19/05

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# 75731 & 75732

Date 8/6-7/07 Tech

NO	Description of Change	Drafter	DCN#	Date
02	CHANGED OVERALL PART HEIGHT, 1.470 WAS 1.485	TWN	1105	5/16/2007
01	CHANGED OVERALL HEIGHT AN ADDED I.D. NOTCH	TWN	0927A	3/9/2005

Title: CSMT/AWN SILL COVER CONCEALED LOCK		Finish:	Material
Scale: 1/2"=1"	Date: 9/23/2004		
Drafter: pblasen	DCN# 0927		

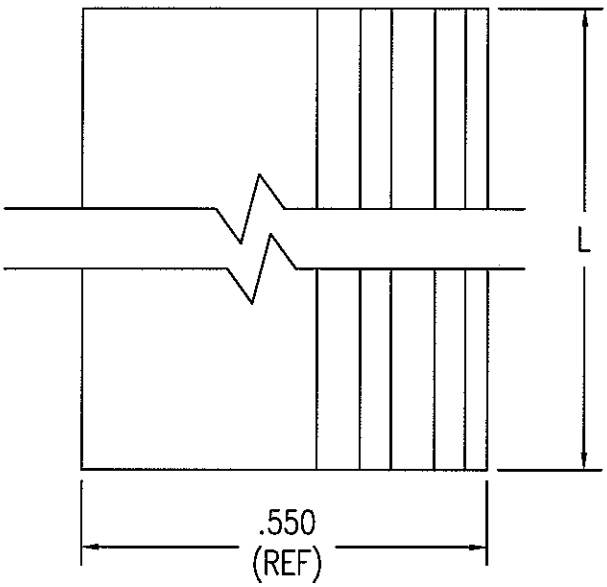
REVISION: 2

223N

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°.

2. L = ((FRAME HEIGHT + FRAME WIDTH) x 2) − 8 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.

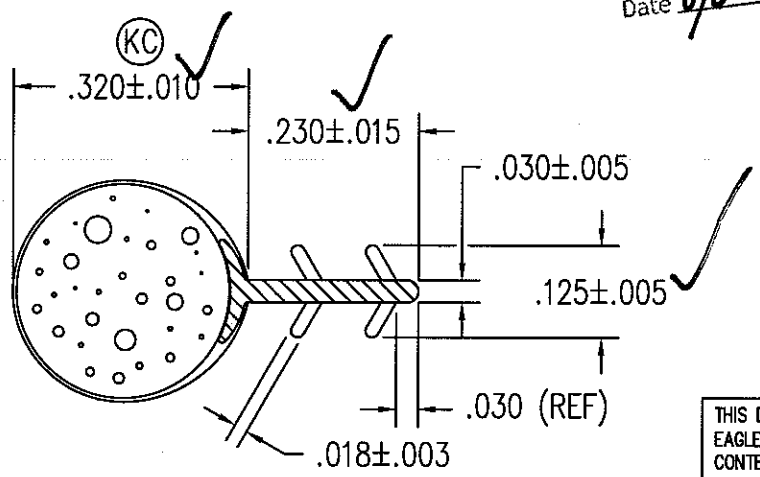


Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 75731 & 75732

Date 6/6-7/07 Tech

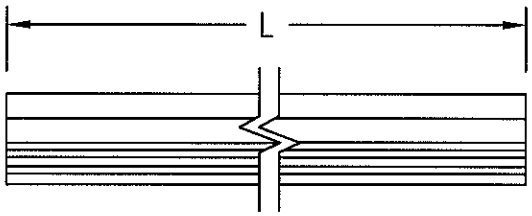


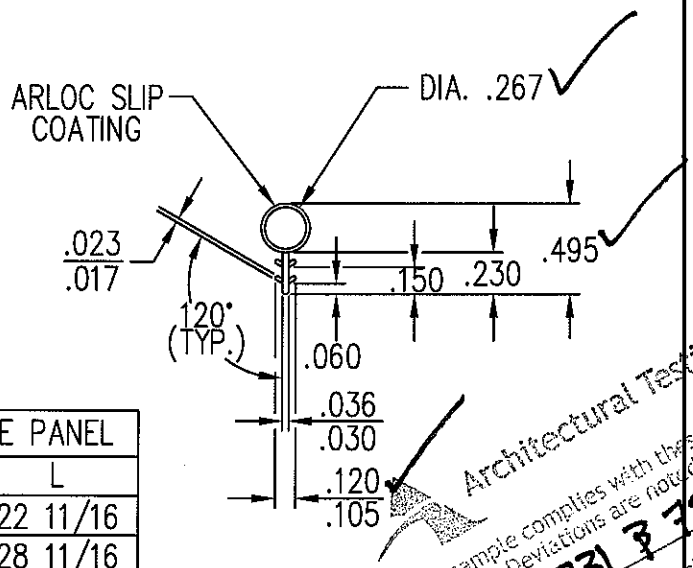
TITLE:	BULB WEATHERSTRIP (.320) CASEMENT
FINISH:	TAN
	PART #12202
MATL:	SEE NOTE 3

NO	DESCRIPTION	DFT	DOC	DATE
02	ADDED FRENCH CASEMENT	RJW	0640	10/14/03
01	ADDED SLIP NOTE	AWW	0795	6/4/2003

DFT:	AWW	SCALE:	4=1
DCN:	0679	DRWG:	A55N
DATE:	5/15/2002	A	01 OF 01

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°.
2. APPROVED VENDOR: INTEK, PART #50135A.
3. .023/.017 TYP. WALL FLEX. .036/.030 TYP. WALL RIGID.
4. CHDVO, WHDVO, SINGLE PANEL: L = FRAME WIDTH − 1.812.
CHDVO, ACTIVE PANEL: L = (FRAME WIDTH / 2) − 1.343.
CHDVO, INACTIVE PANEL: L = (FRAME WIDTH / 2) − .593.
WHDVO, ACTIVE PANEL: L = (FRAME WIDTH / 2) − 1.312.
WHDVO, INACTIVE PANEL: L = (FRAME WIDTH / 2) − .562.
5. SIDE JAMB FOR CLAD & WOOD SLIDING DOORS (L= FRAME WIDTH − 3).





4

CHDVO, ACTIVE PANEL	
FRAME WIDTH	L
24 1/2	22 11/16
30 1/2	28 11/16
32 1/2	30 11/16
36 1/2	34 11/16
48 1/16	22 11/16
60 1/16	28 11/16
64 1/16	30 11/16
72 1/16	34 11/16

WHDVO, ACTIVE PANEL	
FRAME WIDTH	L
24 1/2	22 11/16
30 1/2	28 11/16
32 1/2	30 11/16
36 1/2	34 11/16
48	22 11/16
60	28 11/16
64	30 11/16
72	34 11/16

CLAD & WOOD SLIDING DRS.	
FRAME HEIGHT	L
80	77
82	79
96	93

CHDVO, INACTIVE PANEL	
FRAME WIDTH	L
48 1/16	23 7/16
60 1/16	29 7/16
64 1/16	31 7/16
72 1/16	35 7/16

WHDVO, INACTIVE PANEL	
FRAME WIDTH	L
48	23 7/16
60	29 7/16
64	31 7/16
72	35 7/16

Architectural Testing
Test sample complies with these details.
Deviations are noted.
Report# 75731 & 75732
Tech
5/6/03

TITLE: ARLOC BULB WEATHERSTRIP

FINISH:

MATL: PPR
PROPYLENO/ETHYLONE COPOLYMER

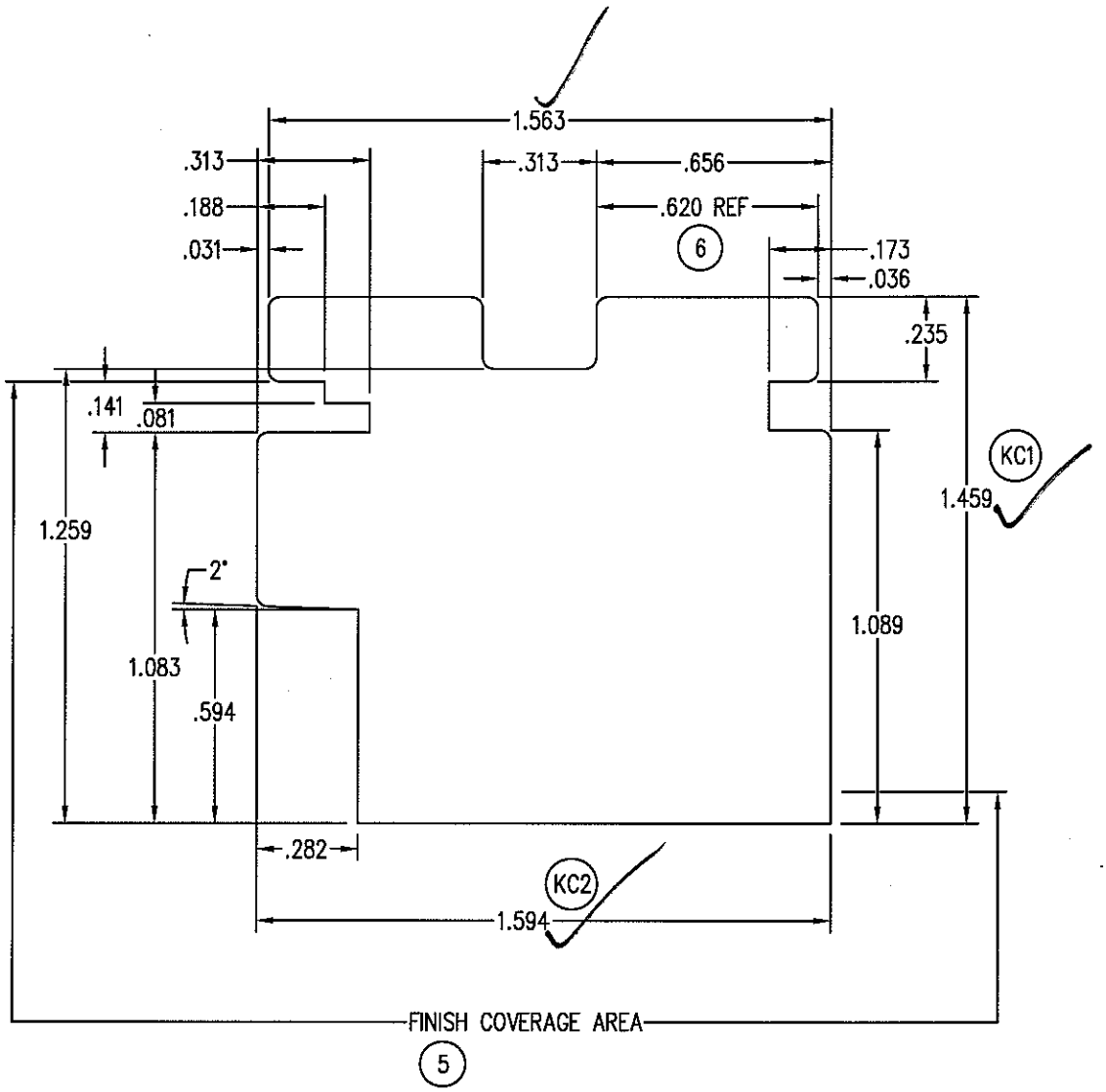
DFT: TWN | SCALE: 1=1

DCN: 0231 | DRWG: A283

DATE: 1/16/1996 | A | 01 OF 04

NO	DESCRIPTION	DFT	DOC	DATE
05	CHANGED TO PAGE 01 OF 04	RJW	0640	10/1/2003
04	CHG'D SINGLE O/S DOOR WIDTH	TWN	0632	11/30/200
03	ADDED PAGES/REMOVED CHARTS	TWN	0486	4/9/2001
02	ADDED SLIDING DR CHART	MJP	0444	4/3/2000
01	ADDED 6-10 DOOR HGT.	MJP	0243	8/13/1997

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# 75731 375732

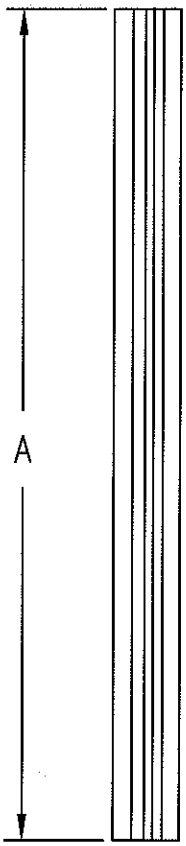
Date 5/6-7/09 Tech

06	ADDED DIMESION	TWN	TRKR	9/13/2006
05	ADDED COVERAGE AREA	JH	0924	9/17/2004
NO	Description of Change	Drafter	DCN#	Date

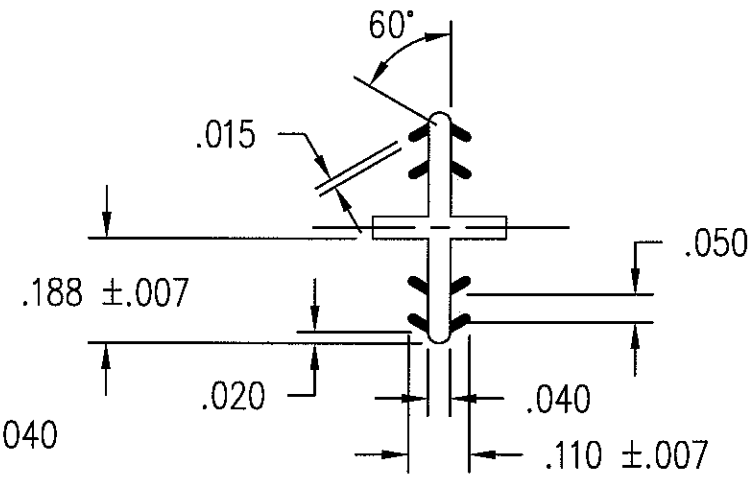
Title: CLAD CSMT RAIL	Finish:	Material EAGLE'S STD WOOD SPECIES	
Scale: 1/2"=1"	Date: 8/7/1995	THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF EAGLE WINDOW & DOOR. NO USE OR REPRODUCTION OF THE CONTENTS OF THIS DOCUMENT IS PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF EAGLE WINDOW & DOOR.	REVISION: 6
Drafter: CEL	DCN# 0154		21DE 01 of 02

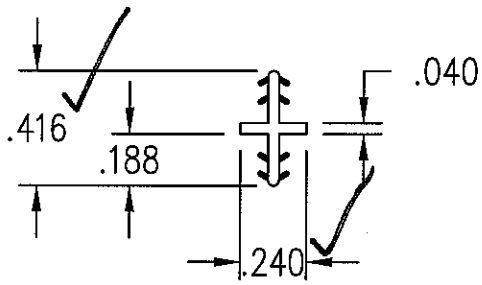
43,50,56,57,58

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°.



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





Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 75731 & 75732

Date 5/6-7/04 Tech

TITLE: CONCEALED FASTENER SPLINE

FINISH:

MATL:

DFT: bager

DCN: 0925

DATE: 9/21/2004

SCALE: 1.5=1

DRWG: A67E

A 01 OF 01

NO	DESCRIPTION	DFT	DOC	DATE