

**AAMA/WDMA/CSA 101/I.S.2/A440-08
TEST REPORT**

Rendered to:

EAGLE WINDOW & DOOR, INC.

**SERIES/MODEL: 4040 Double Hung Transom
PRODUCT TYPE: Aluminum Clad Fixed Wood Window**

Title	Summary of Results
Primary Product Designator	R-PG55-FW 1219 x 1219 (48 x 48)
Design Pressure	2640 Pa (55.0 psf)
Air Infiltration	<0.05 L/s/m ² (<0.01 cfm/ft ²)
Water Penetration Resistance Test Pressure	400 Pa (8.25 psf)
Uniform Load Structural Test Pressure	±3960 Pa (±82.5 psf)
Forced Entry Resistance	Grade 10

Test Completion Date: 05/29/07

Reference must be made to Report No. 73123.01-201-44, dated 12/05/08 for complete test specimen description and data.

AAMA/WDMA/CSA 101/I.S.2/A440-08 TEST REPORT

Rendered to:

EAGLE WINDOW & DOOR, INC.
2045 Kerper Blvd.
Dubuque, IA 52004-1072

Report No.: 73123.01-201-44
Test Date: 05/29/07
Original Report Date: 07/12/07
Revised Report Date: 12/05/08
Expiration Date: 05/29/11

Project Summary: Architectural Testing, Inc. was contracted by Eagle Window & Door to perform testing on a Series/Model 4040 Double Hung Transom, Aluminum Clad Fixed Wood Window. The sample tested successfully met the performance requirements for an R-PG55-FW 1219 x 1219 (48 x 48) 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/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*.

Test Specimen Description:

Series/Model: 4040 Double Hung Transom

Product Type: Aluminum Clad Fixed Wood Window

Overall Size: 1219 mm (48") wide by 1219 mm (48") high

Sash Size: 1160 mm (45-11/16") wide by 1164 mm (45-13/16") high

Overall Area: 1.5 m² (16.0 ft²)

Finish: Exterior cladding was painted white, interior wood was natural.

Test Specimen Description: (Continued)

Frame Construction: Head frame corners were coped, butted, sealed with silicone and secured with three 11 mm (7/16") by 44 mm (1-3/4") long staples per corner. Sill frame corners were coped, butted, sealed with a corner gasket and silicone and secured with two #8 by 44 mm (1-3/4") screws. Aluminum cladding was slip-fit over wood members, miter-cut at head corners and secured with a corner key and two #6 by 11 mm (7/16") screws per corner. Sill corners were coped, butted sealed with a corner gasket and silicone and secured with a #7 by 32 mm (1-1/4") screw and a #6 by 11 mm (7/16") screw.

Sash Construction: Sash corners were mortise-and-tenon construction; sash upper corners were secured with glue and two #8 by 38 mm (1-1/2") screws per corner; sash lower corners were secured with glue and one #8 by 57 mm (2-1/4") and one #8 by 38 mm (1-1/2") screws per corner. Aluminum cladding was slip-fit over wood members, sash upper corners were miter-cut, sealed with butyl and secured with a corner key and two #4 by 13 mm (1/2") screws per head corner. Sash lower corners were coped, butted and sealed with butyl.

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Hollow vinyl bulb with 10 mm (3/8") leaf	1 Row	Sash bottom rail

Glazing Details: The sash were glazed with nominal 19 mm (3/4") insulating glass comprised of two nominal 3 mm (1/8") annealed sheets separated by a desiccant-filled stainless steel spacer system. The glass was set from the interior against InstantGlaze II silicone sealant and secured with wood glazing beads set on the interior, secured with 25 mm (1") brad nails spaced 152 mm to 203 mm (6" to 8") on center.

Hardware: No hardware was utilized.

Installation: The window was installed within a wood test frame and secured with installation clips that were secured to the window with two #8 by 16 mm (5/8") screws and to the buck on the interior and exterior with two #8 by 38 mm (1-1/2") screws that were spaced 305 mm (12") from each corner. The nail flange was secured with 51 mm (2") roofing nails 203 mm (8") on. The unit was sealed to the buck with silicone.

Test Results: The temperature during testing was 21°C (70°F). The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
5.3.2.1	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/A440-08 for air leakage resistance.*

5.3.3.2	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: D	Grade: 10	
	Disassembly Test	No entry	No entry
	Sash/Panel Manipulation Test	No entry	No entry
	Lock Hardware Manipulation Test	No entry	No entry

Optional Performance

4.3.2.1	Water Penetration Resistance per ASTM E 547 and E 331		
	400 Pa (8.25 psf)	No leakage	No leakage

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
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Optional Performance: (Continued)

4.3.2.1	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the sash bottom rail) (Loads were held for 60 seconds)		
	2640 Pa (55.0 psf) (positive)	0.5 mm (0.02")	See Note #3
	2640 Pa (55.0 psf) (negative)	1.5 mm (0.06")	See Note #3

***Note #3:** The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440-08 for this product designation. The deflection data is recorded in this report for special code compliance and information only.*

4.3.2.1	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the sash bottom rail) (Loads were held for 10 seconds)		
	3690 Pa (82.5 psf) (positive)	<0.3 mm (<0.01")	4.6 mm (0.18") max.
	3690 Pa (82.5 psf) (negative)	<0.3 mm (<0.01")	4.6 mm (0.18") max.

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:

<u>Name</u>	<u>Company</u>
Thad McKinley	Eagle Window & Door, Inc.
Joe Cogan	Eagle Window & Door, 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 specimens 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 (25)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	07/12/07	N/A	Original report issue. Report and drawings forwarded to AMS for Hallmark Certification.
1	12/05/08	All	Test report results conducted prior to 2008 standard being published; report is as compared to 2008 standard. 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, Inc.

Contact: Todd Bergstrom

Plant Location(s):
(list all plants where product is made)
2045 Kerper Blvd. Dubuque, IA 52004-1072

Phone: 563-556-2270

Test Report #: 73123.01-201-44-R1

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-689.00

Difference from Certified Product: Report re-written to A440.08 standard.

Is this a Gateway Test ? yes no n/a

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

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: T7 Talon Double Hung Transom
(as to be listed on CCL)

Product Type: Fixed Window

Additional Manufacturer ID #: _____

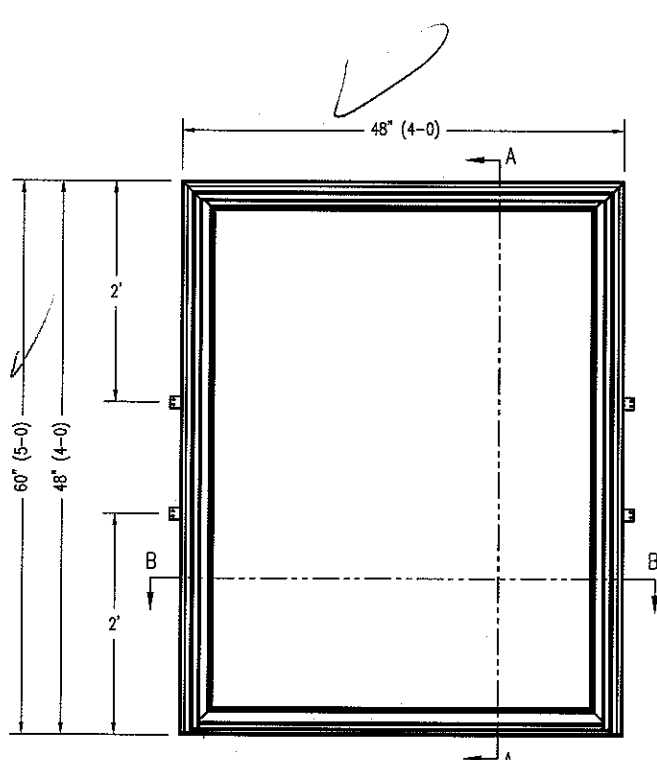
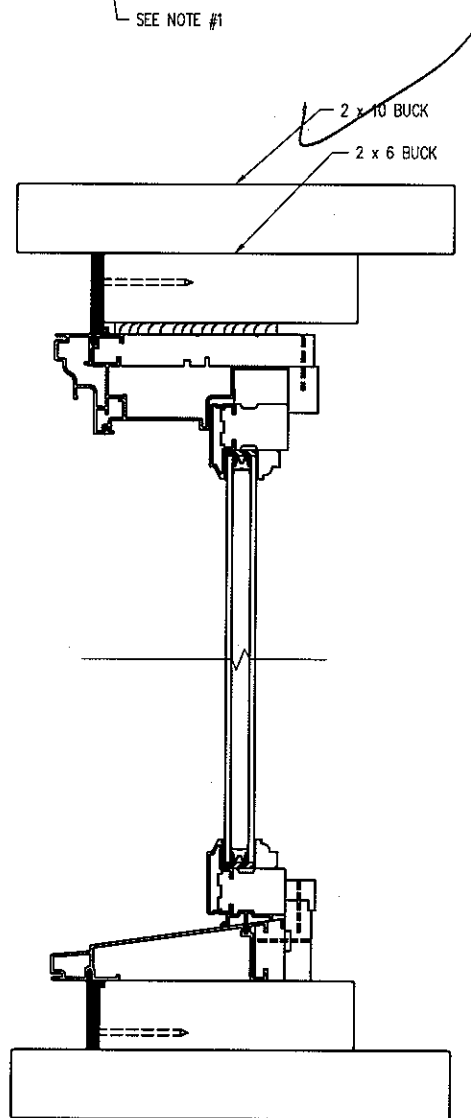
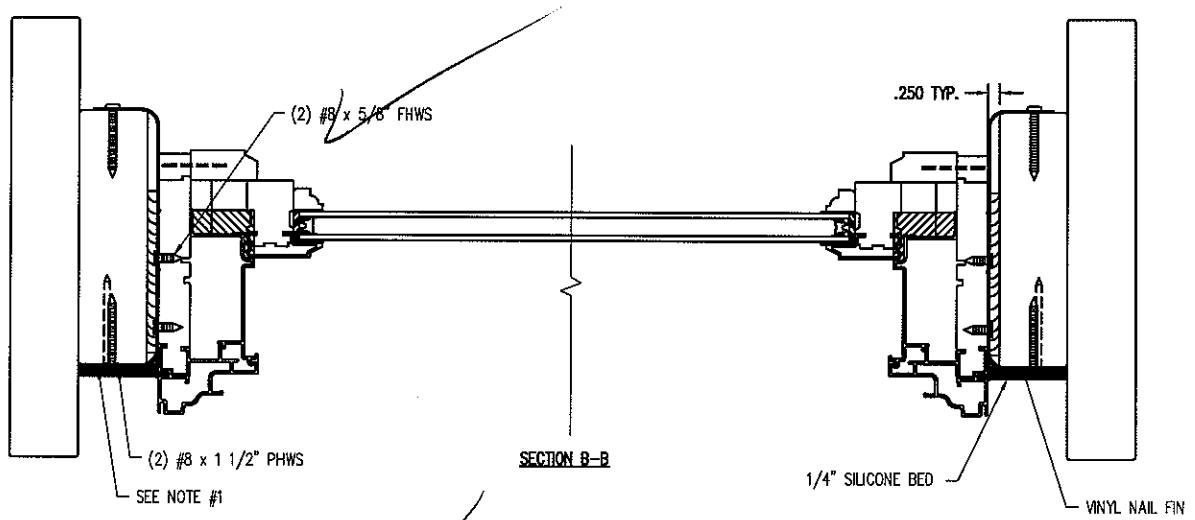
n/a

<u>Hallmark CCL</u>	<u>Standard</u>	<u>Rating</u>
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Appendix C

Drawings

1. (32) 2" ROOFING NAILS THROUGH NAIL FIN INTO BUCK SPACES 3 1/2" FROM EACH END AND 6" ON CENTER THEREAFTER.



Architectural Testing

Test sample complies with these details.
 Deviations are noted.
 Report# 73123, 73111, 72969
 Date 5/29-6/16/07 Tech TB

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TITLE:	07 CDHT
FINISH:	INSTALLATION DETAIL
MAIL:	
DFT:	KJS
DCN:	0881
SCALE:	1=4
DRWG:	053E
DATE:	4/25/07
	C 01 OF 01

NO	DESCRIPTION	DFT	DOC	DATE

NO.	DWG NO.	DESCRIPTION	QUANTITY	MATERIAL	SUPPLIER
1	A514	HEAD FRAME CLADDING	1	ALUMINUM	BONNELL
2	21E9	HEAD	1	WOOD (LVL)	EAGLE WINDOW & DOOR
3	A19K	.125 DIA. SASH BUTYL SEALANT	AS REQUIRED	POLYISOBUTYLENE	DEVAN SEALANTS
4	A40F	1 1/4" HARDENED STEEL BRAD	AS REQUIRED	STEEL	ABILITY FASTENERS
5	214F	HEAD INTERIOR STOP	1	WOOD	EAGLE WINDOW & DOOR
6	A51B	HEAD STOP EXTRUSION	1	ALUMINUM	HYDRO
7	A030	SILICONE SEALANT	AS REQUIRED	SILICONE	DOW CORNING
8	21DY	INT. SIDE STOP SUPPORT	2	WOOD	EAGLE WINDOW & DOOR
9	21X7	FILLER BLOCK	1	WOOD	EAGLE WINDOW & DOOR
10	A00L	3/16" x 1 1/8" STAPLE	AS REQUIRED	GALVANIZED STEEL	ABILITY FASTENERS
11	A51C	SIDE STOP EXTRUSION	2	ALUMINUM	HYDRO
12	2134	JAMB	2	WOOD (LVL)	EAGLE WINDOW & DOOR
13	A514	SIDE FRAME COVER	2	ALUMINUM	HYDRO
14	212Y	SILL STOOL	1	WOOD	EAGLE WINDOW & DOOR
15	A40E	1" HARDENED STEEL BRAD (18 GA.)	AS REQUIRED	STEEL	ABILITY FASTENERS
16	214C	SILL STOP	1	WOOD	EAGLE WINDOW & DOOR
17	2130	THERMAL BLOCK	1	WOOD	EAGLE WINDOW & DOOR
18	A571	FRAME SILL COVER	1	ALUMINUM	HYDRO
19	A72H	FRAME PLUG	2	NYLON	LCS
20	A00R	#7 x 5/8" FH SMS	AS REQUIRED	STAINLESS STEEL	ABILITY FASTENERS
21	A02E	#8 x 1 3/4" FH SMS (Z&Y)	8	STEEL	ABILITY FASTENERS
22	A11D	7/16" x 1 3/4" 16 GA. STAPLE	8	GALVANIZED STEEL	ABILITY FASTENERS
23	A100	90 CORNER KEY	2	NYLON	LAKE COUNTRY SALES
24	A08W	MDL CORNER KEY	2	ABS COMPOUND	LAKE COUNTRY SALES
25	A11K	#6 x 7/16", #8 BODY FH SMS S.S.	6	STAINLESS STEEL	ABILITY FASTENERS
26	A20D	SILL CORNER KEY	8	NYLON	LCS
27	A39W	#7 x 1 1/4" FH SMS (S.S.)	2	STEEL	ABILITY FASTENERS
28	A16K	SASH COVER	4	ALUMINUM	HYDRO
29	20FD	HEAD STOP SUPPORT	1	WOOD	EAGLE WINDOW & DOOR
30	20F4	RAIL	2	WOOD	EAGLE WINDOW & DOOR
31	220J	HORZ. COLONIAL GLAZING STOP	2	WOOD	EAGLE WINDOW & DOOR
32	A00E	NEOPRENE GLASS SETTING BLOCK	AS REQUIRED	NEOPRENE RUBBER	CLIM-A-TECH
33	20FD	SIDE STOP SUPPORT	2	WOOD	EAGLE WINDOW & DOOR
34	20F4	STILE	2	WOOD	EAGLE WINDOW & DOOR
35	220J	VERT. COLONIAL GLAZING STOP	2	WOOD	EAGLE WINDOW & DOOR
36	A08J	5/8" INSULATED GLASS	1	GLASS	CARDINAL IG
	A32Y	SINGLE PANE GLASS (OPT.)		GLASS	CARDINAL IG
37	A67M	.031 x .625 FOAM TAPE (GLASS STOP TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
38	A51H	INSTANT GLAZE II SEALANT	AS REQUIRED	POLYURETHANE	DOW CORNING
39	A08K	GLAZING SHIM .250 x .065 x 4.000	AS REQUIRED	NEOPRENE RUBBER	CLIM-A-TECH
40	A745	LOWER RAIL STOP	1	ALUMINUM	HYDRO
41	A172	SASH CORNER KEY	4	NYLON	LAKE COUNTRY SALES
42	A01A	.094 x .265 BUTYL TAPE	AS REQUIRED	BUTYL RUBBER	DEVAN SEALANTS
43	A01D	TYPE 1 BOND WOOD ADHESIVE	AS REQUIRED	COPOLYMER	NATIONAL STARCH
44	A19H	#4 x 1/2" FH SMS S.S.	4	STEEL	ABILITY FASTENERS
45	A330	#8 x 1 1/2" FHWS Z&Y	AS REQUIRED	STEEL	ABILITY FASTENERS
46	A131	3/16" x 1 1/2" STAPLE	4	STEEL	ABILITY FASTENERS
47	A00T	#7 x 7/8" FHWS S.S.	AS REQUIRED	STEEL	ABILITY FASTENERS
48					
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 TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
55	A67L	1 1/2" MDL ADHESIVE TAPE (INTERIOR TAPE)	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 TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
60	A67R	1 1/8" MDL ADHESIVE TAPE (INTERIOR TAPE)	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 TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
65	A67N	7/8" MDL ADHESIVE TAPE (INTERIOR TAPE)	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 TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
70	A75M	5/8" MDL ADHESIVE TAPE (INTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
71	N/A	ADHESIVE FOAM TAPE	AS REQUIRED	POLYETHYLENE	CARDINAL



Architectural Testing

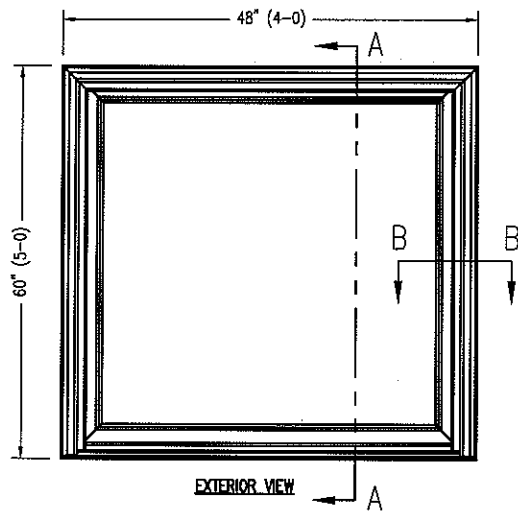
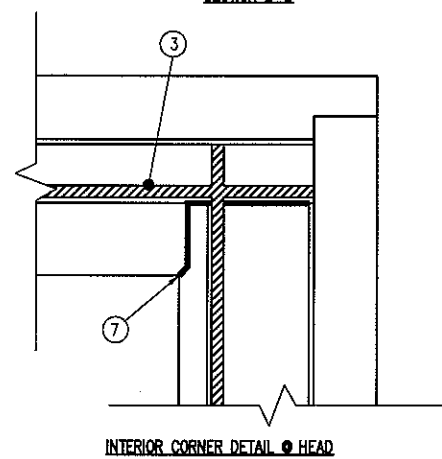
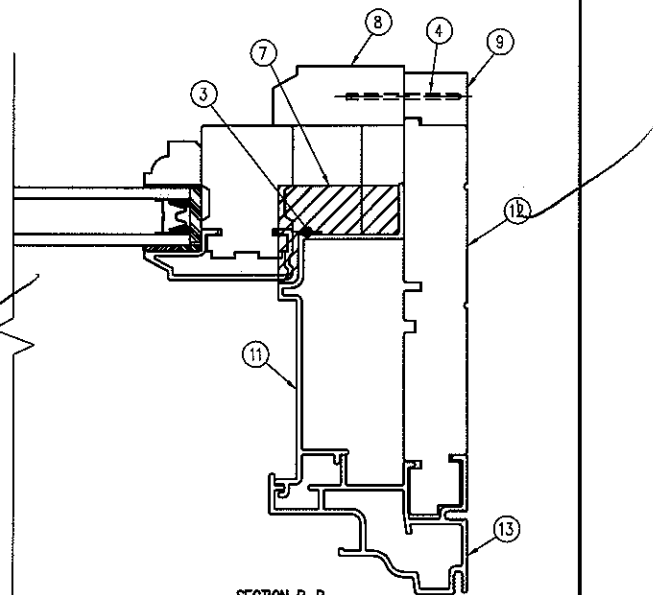
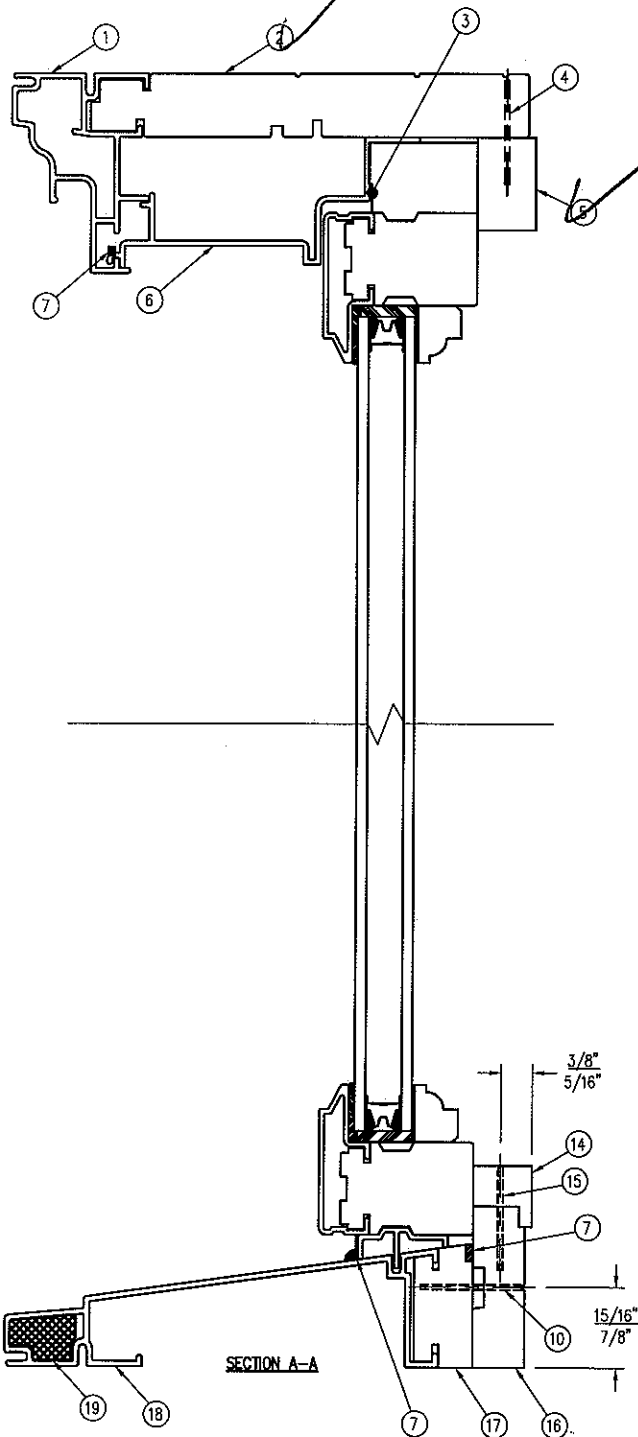
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Deviations are noted.

Report# 73123, 73111, 72964

Date 5/29-6/1/07 Tech TG

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DATE: 4/25/07	C 08

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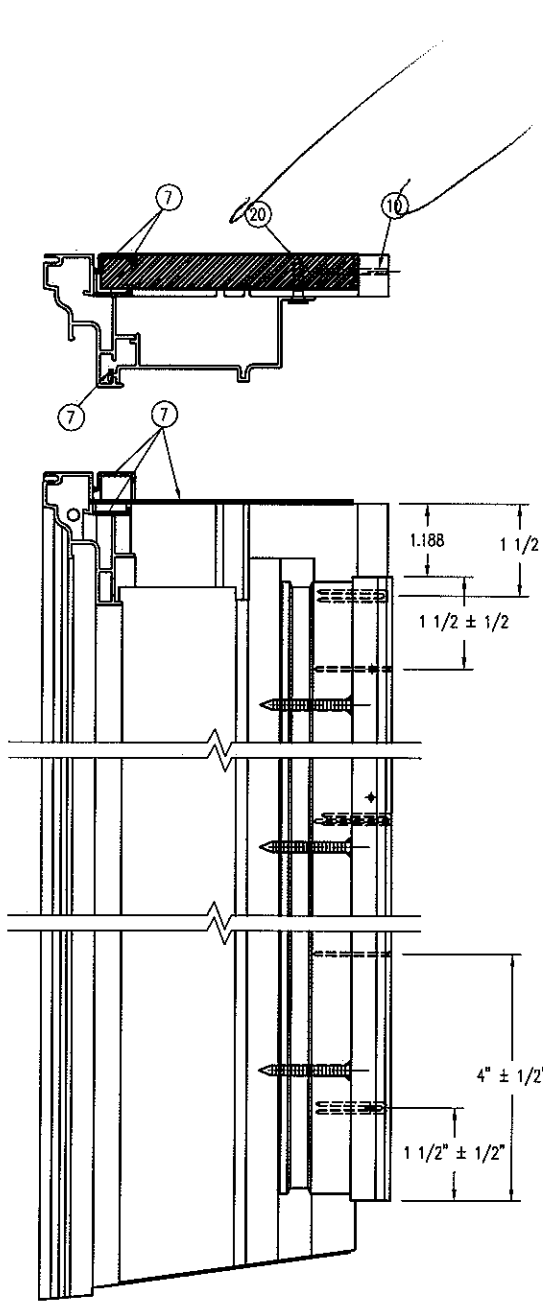
Architectural Testing

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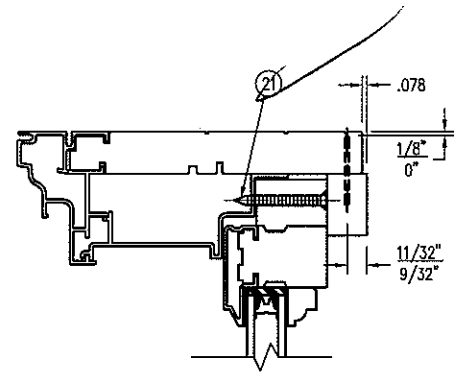
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Date 5/29-6/4/07 Tech TG

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MATL:	
DFT: ksmith	SCALE: 1=2
DCN: 0881	DRWG: 053D
DATE: 4/25/07	C 01 OF 08

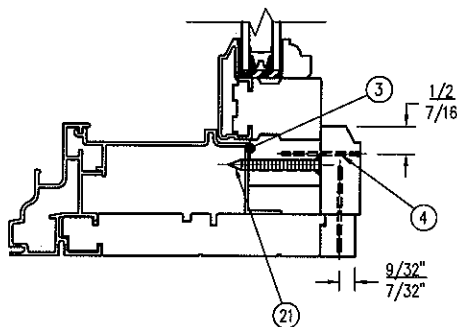
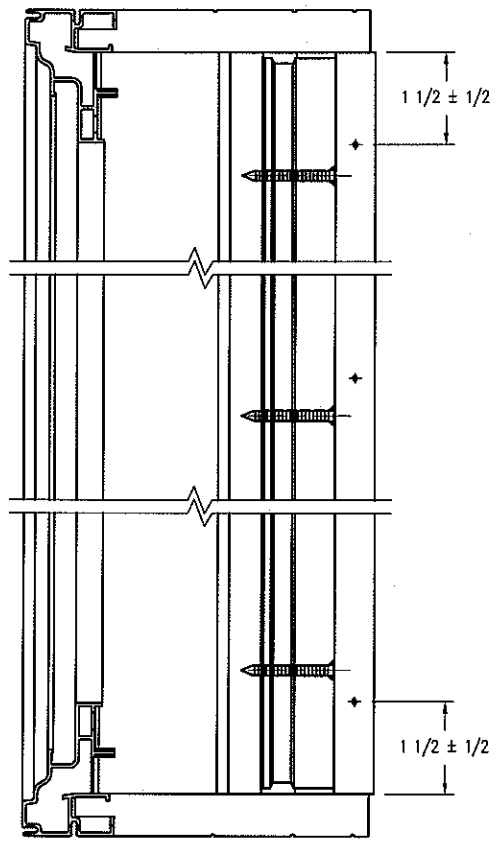
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JAMB



HEAD




Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report# 73111, 73123, 22964
 Date 5/29-6/1/07 Tech 16

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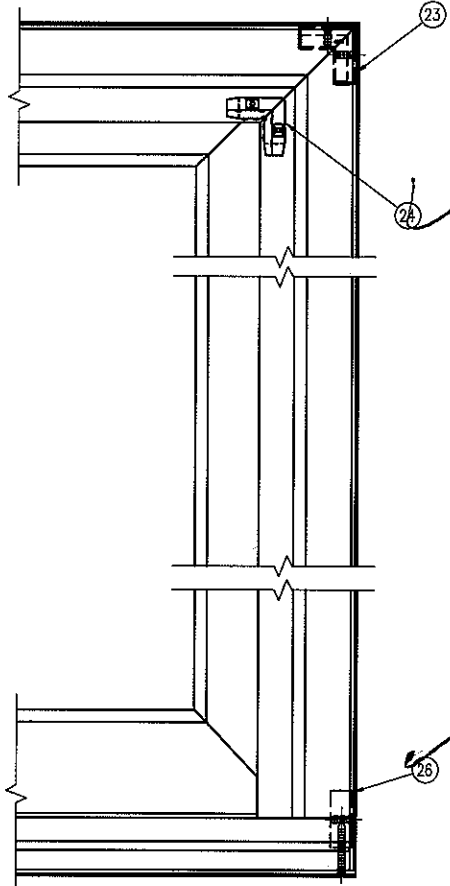
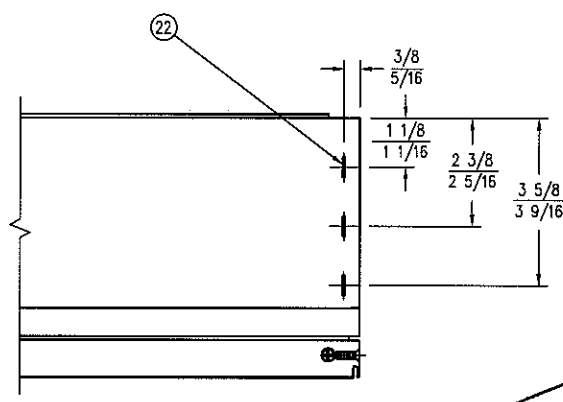
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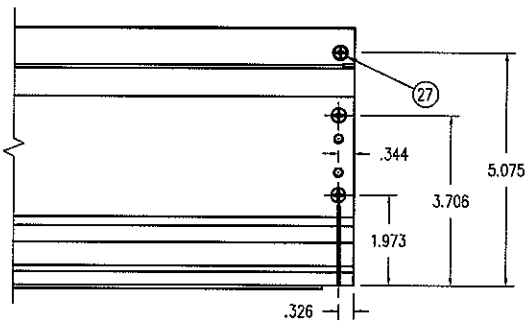
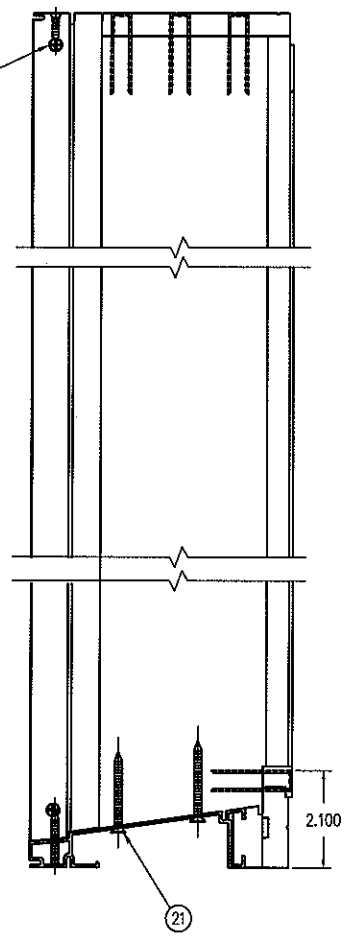
Architectural Testing

Test sample complies with these details.
Deviations are noted.

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Date 5/29-6/4/07 Tech TL

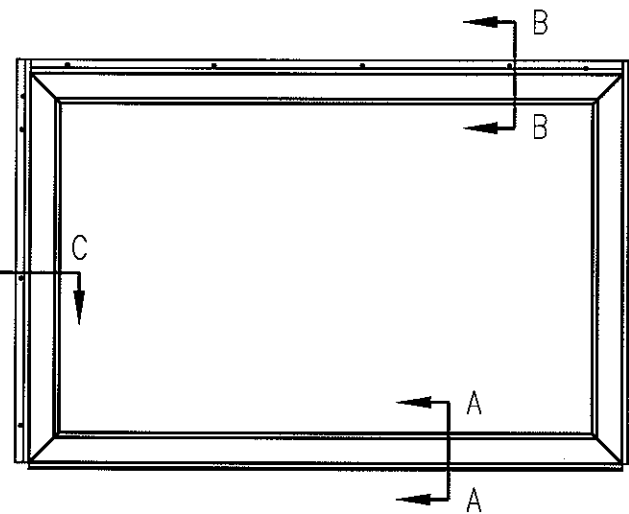
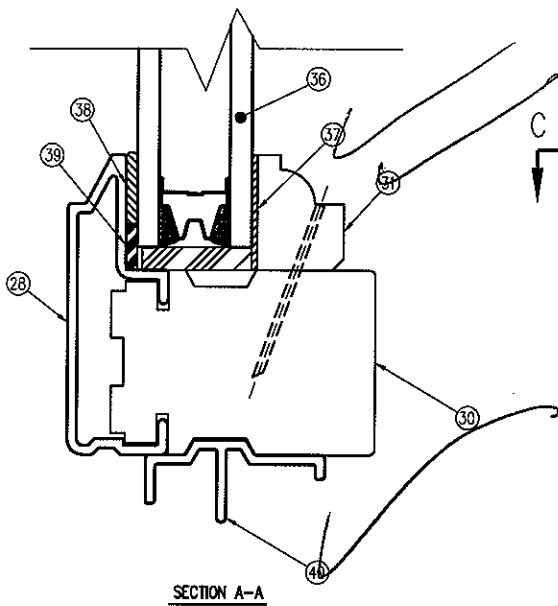
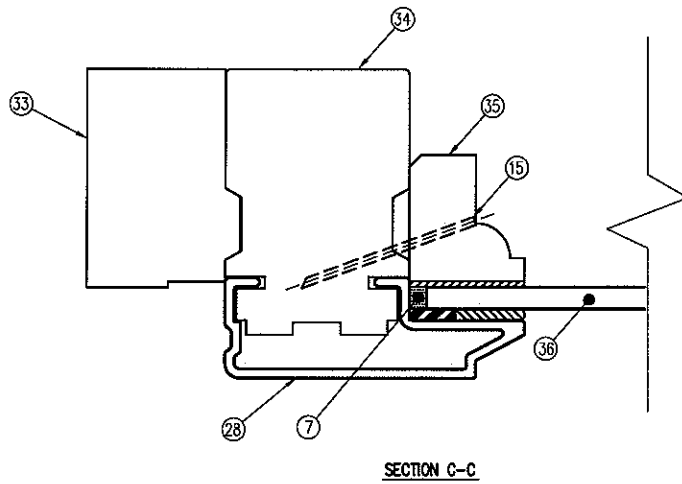
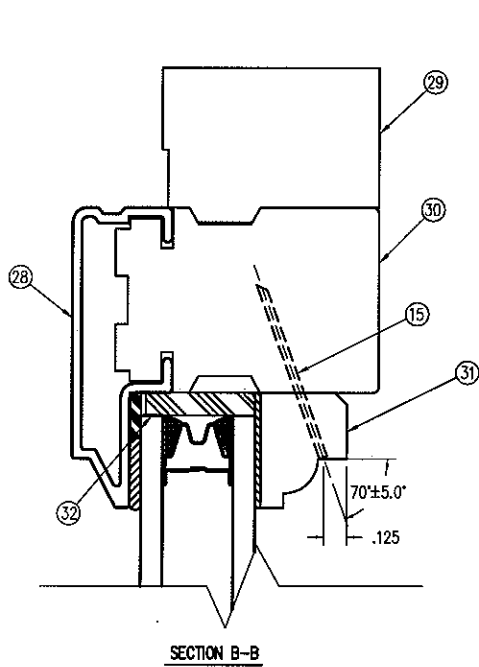


EXTERIOR VIEW



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TITLE:		07 CDHT	
FINISH:		FRAME ASSEMBLY	
MATERIAL:			
DFT:	ksmith	SCALE:	1=4
DCN:	0881	DRWG:	053D
DATE:	4/25/07	C	03

NO	DESCRIPTION	DFT	DOC	DATE



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 73111, 7323, 72964

Date 5/29-6/1/27 Tech TC

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TITLE: '07 CDHT
SASH ASSEMBLY

FINISH:

MATL:

DFT: ksmith SCALE: 1=1
DCN: 0881 DRWG: 053D

DATE: 4/25/07 C 04

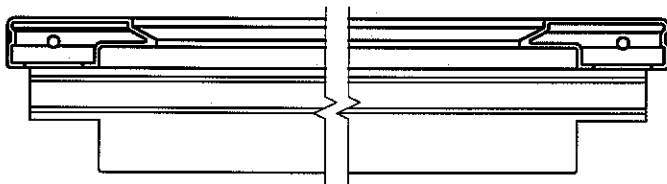
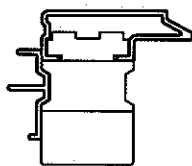
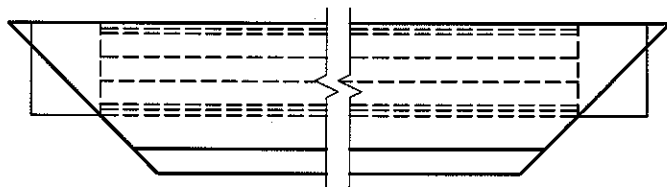
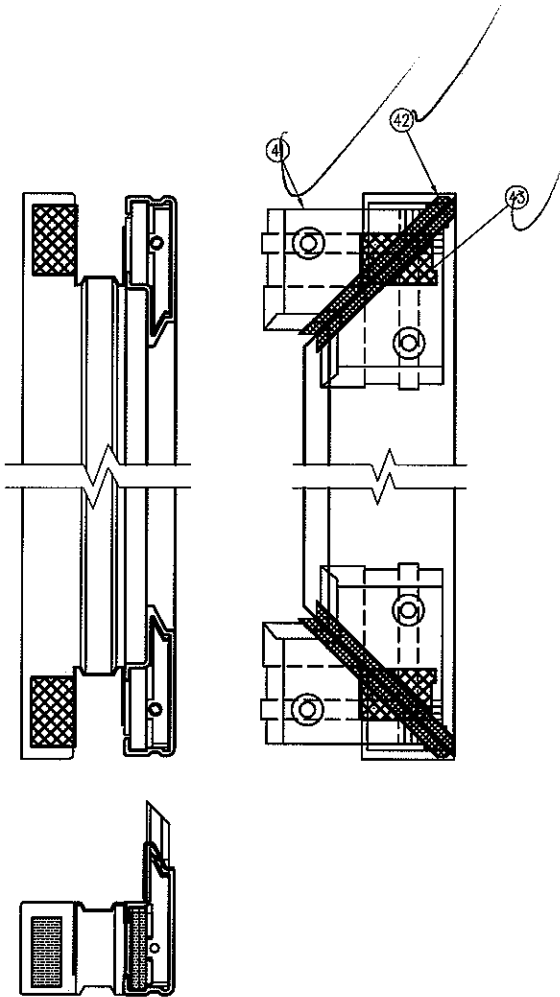
NO	DESCRIPTION	DFT	DOC	DATE



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 73123, 73111, 72964
Date 5/24-6/1/07 Tech TG



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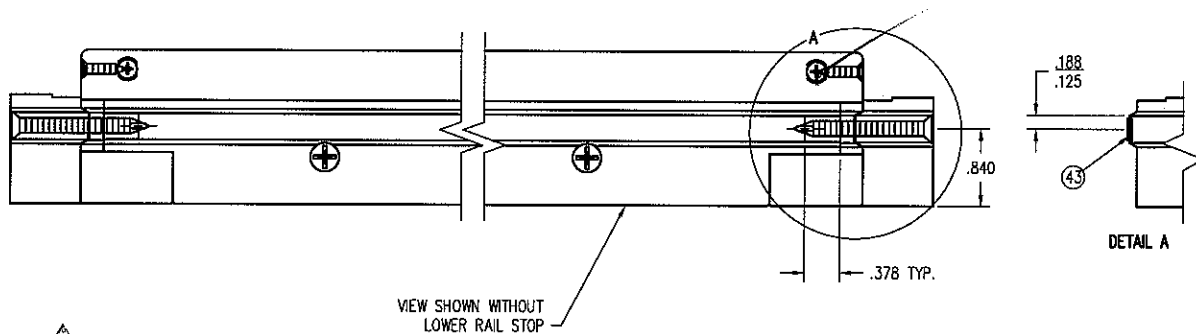
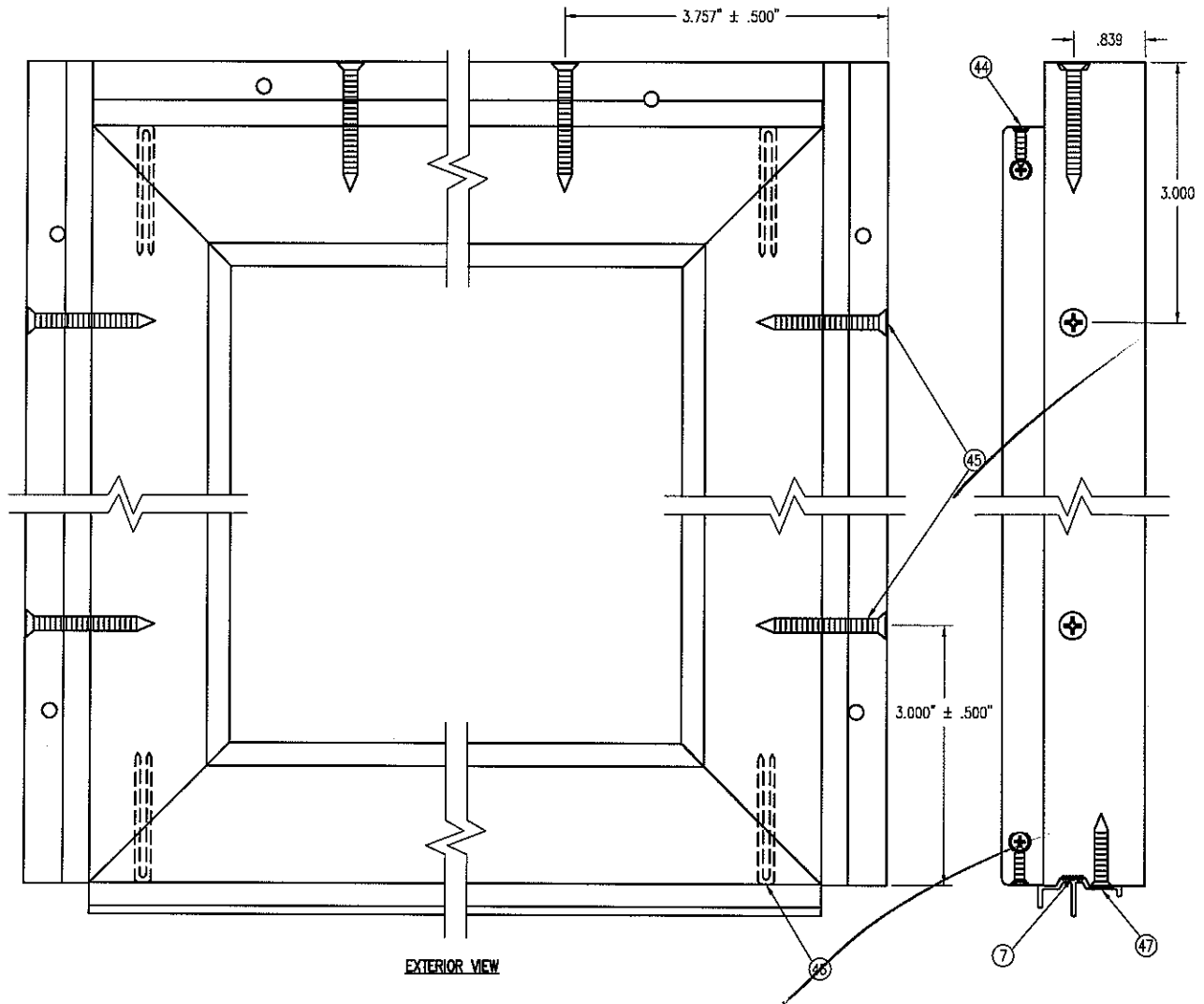
TITLE: '07 CDHT
SASH ASSEMBLY

FINISH:

MAIL:

DFT: ksmith SCALE: 1=2
DCN: 0881 DRWG: 0530
DATE: 4/25/07 C 05

NO	DESCRIPTION	DFT	DOC	DATE



 Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 73123, 73111, 72964
Date 5/29-6/1/07 Tech TG

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TITLE:	07 CDHT
	SASH ASSEMBLY
FINISH:	
MATL:	
DF1:	ksmith SCALE: 1=2
DCN:	0881 DRWG: 053D
DATE:	4/25/07 C 06

NO	DESCRIPTION	DF1	DOC	DATE

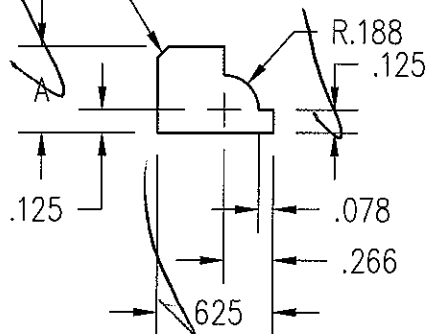
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ±.005; FRAC. ±1/64; ANGLES ±1/2°.

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

Architectural Testing
 Test sample compliant with these details.
 Deviations are noted.
 Report# 23123723114, 28964
 Date 5/29-6/16/07 Tech T.G.

PANEL STOPS	
PRODUCT	A
WOOD OUTSWING SIDELITE	.469
WOOD OUTSWING TRANSOM	.469
WOOD INSWING SIDELITE	.469
WOOD INSWING TRANSOM	.469
CLAD DHG PICTURE	.406

.062 x .062 CHAMFER



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TITLE: COLONIAL GLAZING STOP

FINISH:

04	ADDED CDHG PICT TO CHART	KJS	0881	3/6/07	MATL:
03	ADDED SIZE FOR IMPACT GLAZING	TWN	0972	9/1/05	EAGLE STD WOOD OFFERINGS
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 SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. $\pm .005$; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
 2. UNLESS OTHERWISE SPECIFIED ALL RADII = .031. DENOTED BY * (12 PLCS).

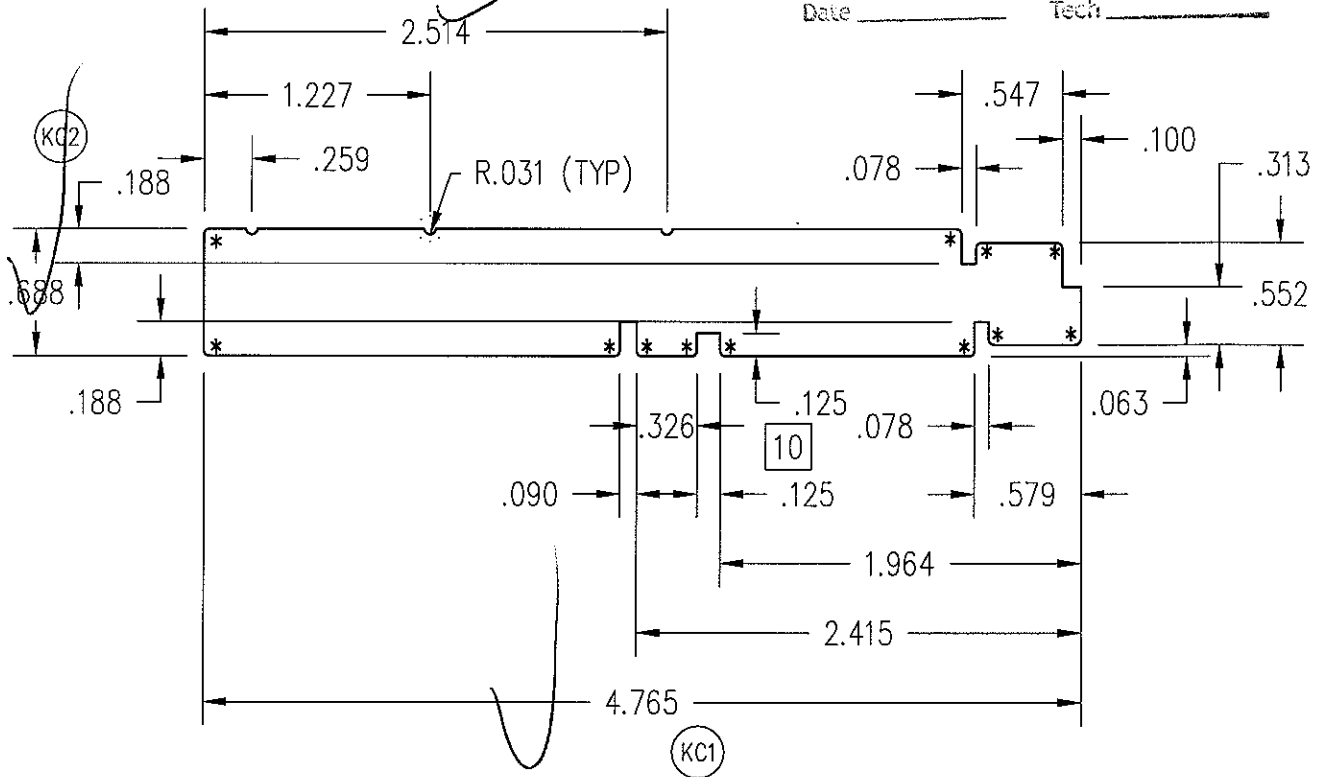


Architectural Testing

Test sample complies with these details.
 Deviations are noted.

Report# 73123, 73111, 72964

Date _____ Tech _____



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TITLE: CDHV/CDHVET/CSW - HEAD
 CDHF - HEAD/SIDE JAMB

FINISH:

MATL: SEE PAGE 02

10	ADD 2ND KERF TO MATCH #2134	TWN	0768	1/30/03	DFT: BRL	SCALE: 1=1
09	ADDED E-TILT DHG	RJW	0589	6/26/02	DCN: 0215	DRWG: 21E9
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 9/29/1995	A 01 OF 02

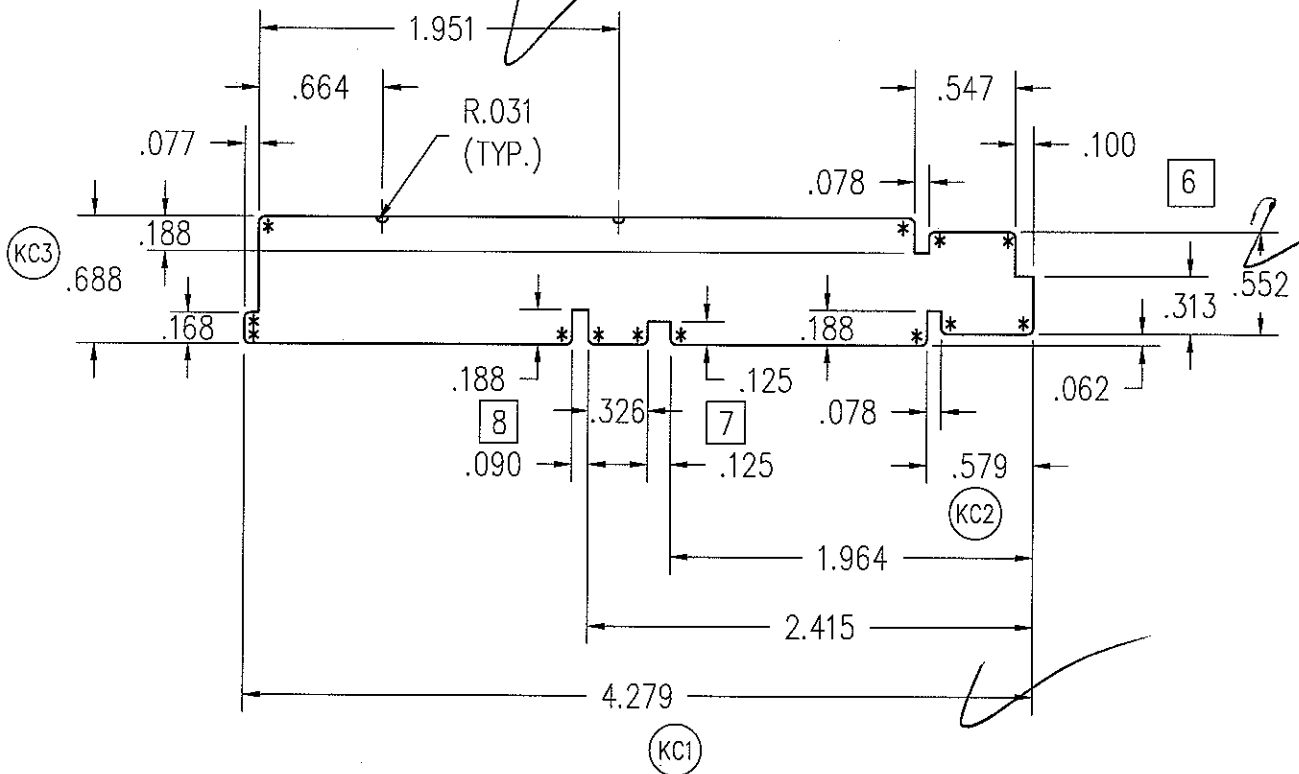
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ± 0.005 ; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
 2. UNLESS OTHERWISE SPECIFIED ALL RADII = $.031$. DENOTED BY * (13 PLCS)



Architectural Testing

Test sample complies with these details.
 Deviations are noted.

Report# 73123, 7314, 72964
 Date 5/29-6/1/07 Tech TB



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TITLE: CDHV/CDHVET/CSW
 SIDE JAMB

FINISH:

08	ADD 2ND KEFT TO MATCH #21E9	TWN	0768	1/30/2003		
07	ADDED KERF FOR E-TILT	AWW	0589	6/26/2002	MATL:	SEE PAGE 02
06	CHNG'D PROFILE	AWW	0580	8/3/2001		
05	ADD RADIUS TO CORNERS	SCT	0292	5/1/1998	DFT:	GDE SCALE: 1=1
04	CHG'D DESCRIPTION	CEL	0247	5/5/1997	DCN:	0073 DRWG: 2134
NO	DESCRIPTION	DFT	DOC	DATE	DATE:	3/2/1993 A 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 $\pm 1/2^\circ$.
 2. L = FRAME WIDTH - 1 3/8

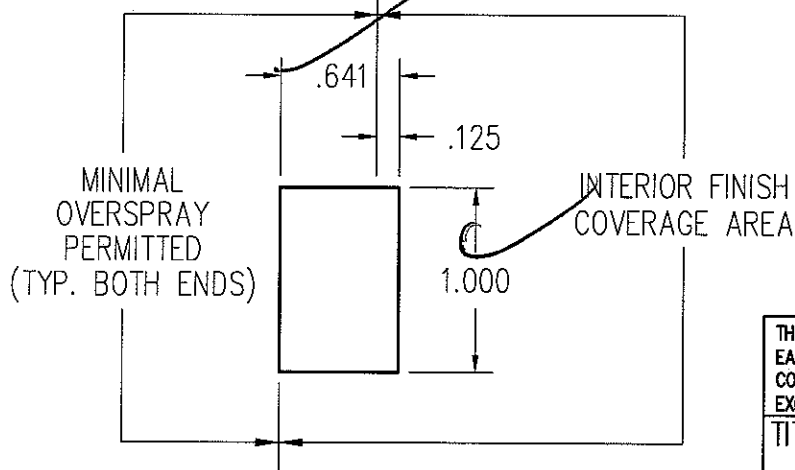
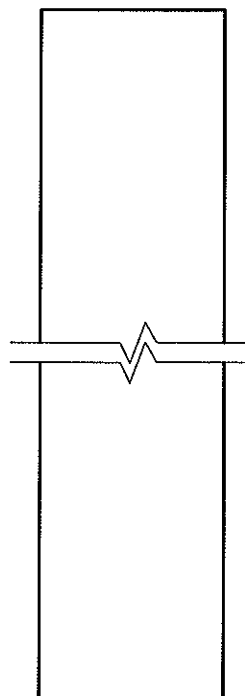
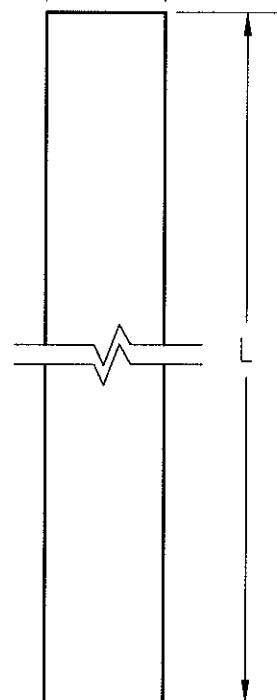


Architectural Testing

Test sample complies with these details.
 Deviations are noted.

Report# 2303, 7311, 72964
 Date 5/29/67 Tech TB

MINIMAL OVERSRAY
 PERMITTED
 (TYP. BOTH ENDS)



2

FRAME WIDTH	L
30	28 5/8
36	34 5/8
40	38 5/8
48	46 5/8
60	58 5/8

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TITLE: HEAD INTERIOR STOP

FINISH:

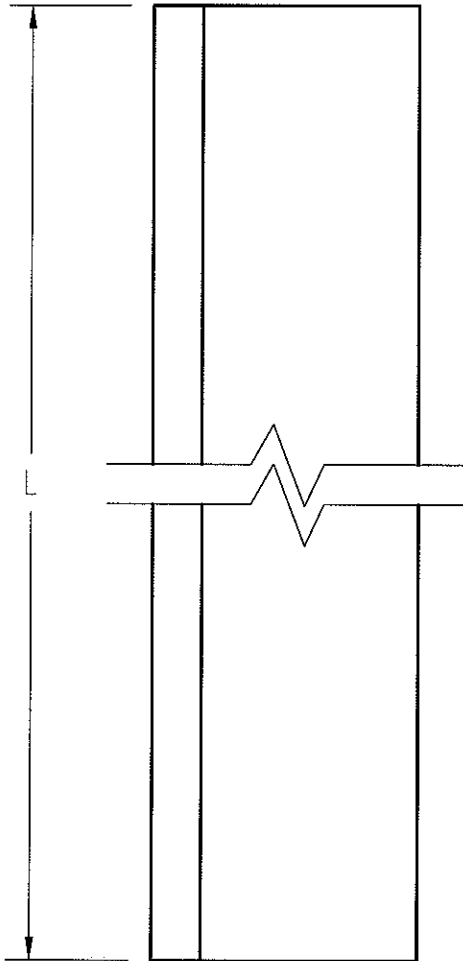
MATL: CLEAR PINE

02	ADDED 30" SIZE TO CHART	BRL	0235	2/17/96	DFT: GDE	SCALE: 1=1
01	REDESIGNED PROFILE	BRL	0215	9/29/95	DCN: 0073	DRWG: 214F
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 3/3/93	A 01 OF 01

- 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 = FRAME HEIGHT - 3 7/8.
- '07 CDHF, L = FRAME HEIGHT - 4 21/32.

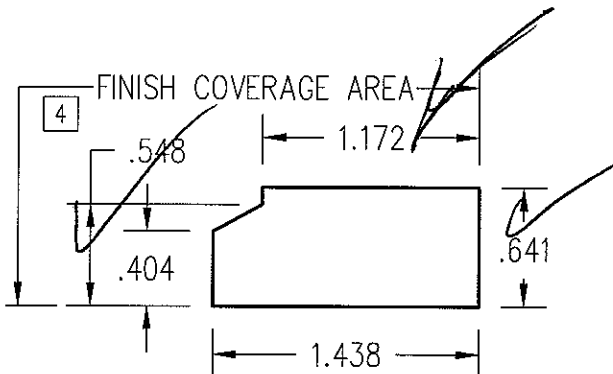
Test sample complies with these details.
Deviations are noted.

Report# 73123, 73111, 72964
Date 5/24/6/1/07 Tech JB
5



CDHF & WDHF	
FRAME HEIGHT	L
12	8 1/8
14	10 1/8
16	12 1/8
18	14 1/8
20	16 1/8
22	18 1/8
24	20 1/8
36	32 1/8
40	36 1/8
48	44 1/8
54	50 1/8
60	56 1/8
66	62 1/8
72	68 1/8
78	74 1/8

'07 CDHF	
FRAME HEIGHT	L
12	7 11/32
14	9 11/32
16	11 11/32
18	13 11/32
20	15 11/32
22	17 11/32
24	19 11/32
36	31 11/32
40	35 11/32
48	43 11/32
54	49 11/32
60	55 11/32
66	61 11/32
72	67 11/32
78	72 11/32



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TITLE: WDHF & CDHF
INT. SIDE STOP SUPPORT

FINISH: PRESERVATIVE

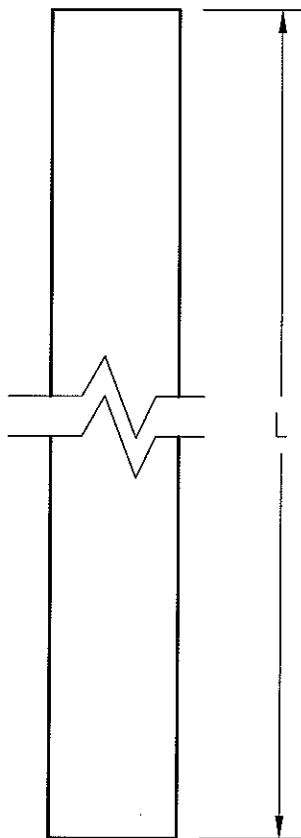
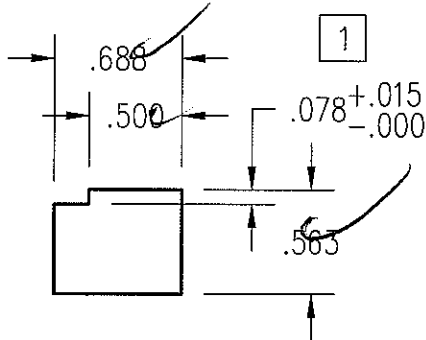
05	ADDED '07 CHART	TWN	0881	4/16/07		
04	ADDED FINISH COVERAGE AREA	JH	0902	7/15/04	MATL:	
03	REMOVED NOTE	CEL	0241	12/12/96		
02	NOTE #2 WAS #3	BRL	0238	4/3/96	DFT: BRL	SCALE: 1=1
01	ADDED SIZES TO CHART	BRL	0226	1/3/96	DCN: 0215	DRWG: 21DY
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 9/25/1995	A 01 OF 01

NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. $\pm .005$; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
 2. L = FRAME HEIGHT - 2 11/16".
 '07 CDHF, L = FRAME HEIGHT - 3 15/32".



Test sample complies with these details.
 Deviations are noted.

Report# 73023, 73114, 72964
 Date 5/29-6/10/07 Tech TL



2

CDHF & WDHF	
FRAME HEIGHT	L
12	9 5/16
14	11 5/16
16	13 5/16
18	15 5/16
20	17 5/16
22	19 5/16
24	21 5/16
36	33 5/16
40	37 5/16
48	45 5/16
54	51 5/16
60	57 5/16
66	63 5/16
72	69 5/16
78	75 5/16

'07 CDHF	
FRAME HEIGHT	L
12	8 17/32
14	10 17/32
16	12 17/32
18	14 17/32
20	16 17/32
22	18 17/32
24	20 17/32
36	32 17/32
40	36 17/32
48	44 17/32
54	50 17/32
60	56 17/32
66	62 17/32
72	68 17/32
78	74 17/32



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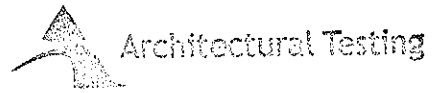
TITLE: CDHF/WDHF
 JAMBLINER FILLER BLOCK

FINISH:

MATL: CLEAR PINE

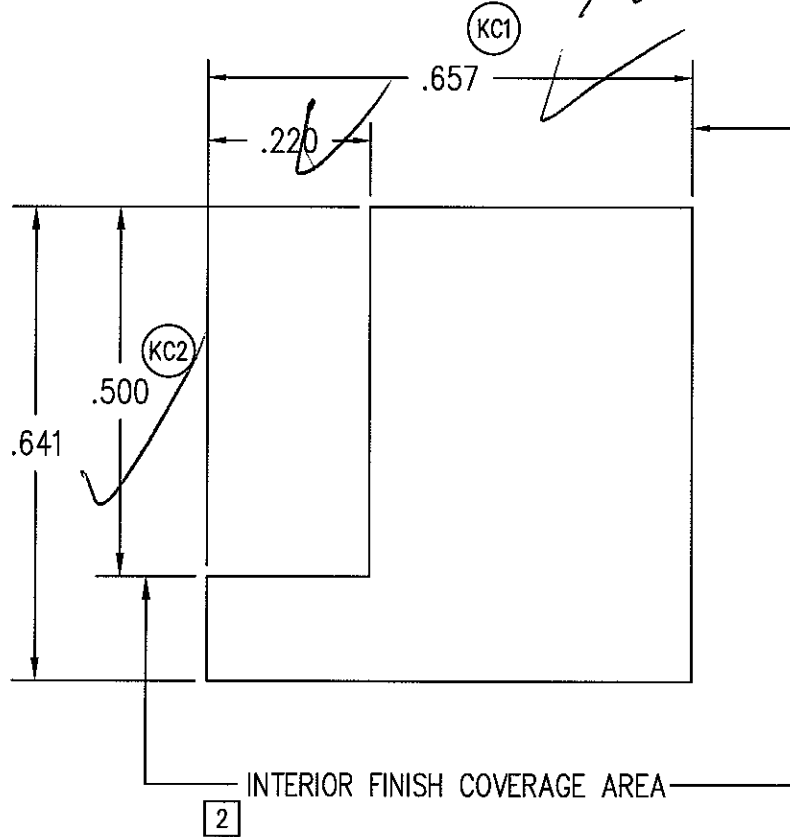
02	ADDED '07 CHART	TWN	0881	4/16/07	DFT:	JMH	SCALE:	1=1
01	R'VSD DIMENSION .078 WAS .087	TWN	0844	1/21/04	DCN:	0501	DRWG:	21X7
NO	DESCRIPTION	DFT	DOC	DATE	DATE:	10/18/2000	A	01 OF 01

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 $\pm 1/2^\circ$.



Test sample complies with these details.
Deviations are noted.

Report# 73123, 73116, 72964
Date 5/29/94 Tech TG



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TITLE: SILL STOOL

FINISH: SEE PAGE 02

MATL: SEE PAGE 02

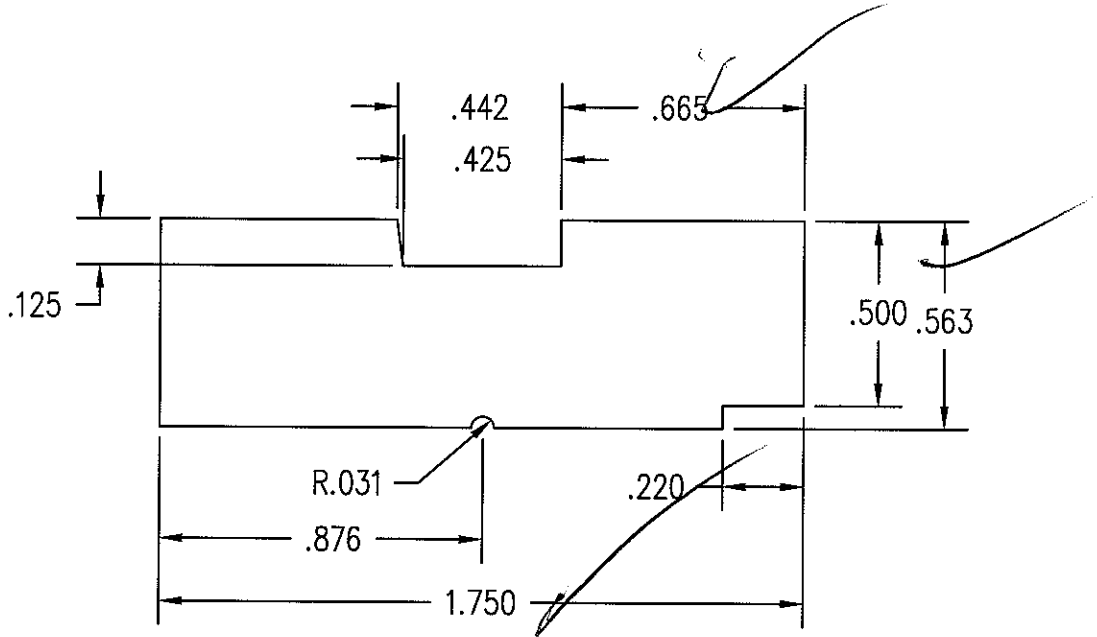
02	ADDED COVERAGE AREA	JH	0893	6/14/2004	DFT: GDE	SCALE: 4=1
01	ADDED MACH. SYM.	CEL	0247	8/19/1997	DCN: 0073	DRWG: 212Y
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 3/3/1993	A 01 OF 02

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 $\pm 1/2^\circ$.



Test sample complies with these details.
Deviations are noted.

Report# 7311, 7312, 7291
Date 5/29-4/02 Tech TJ



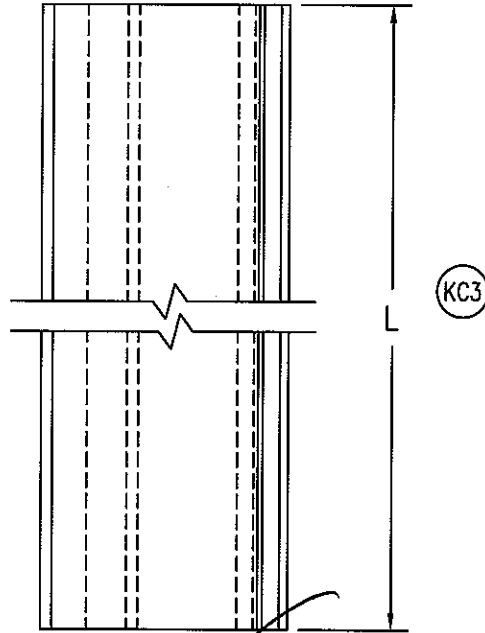
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TITLE: SILL STOP

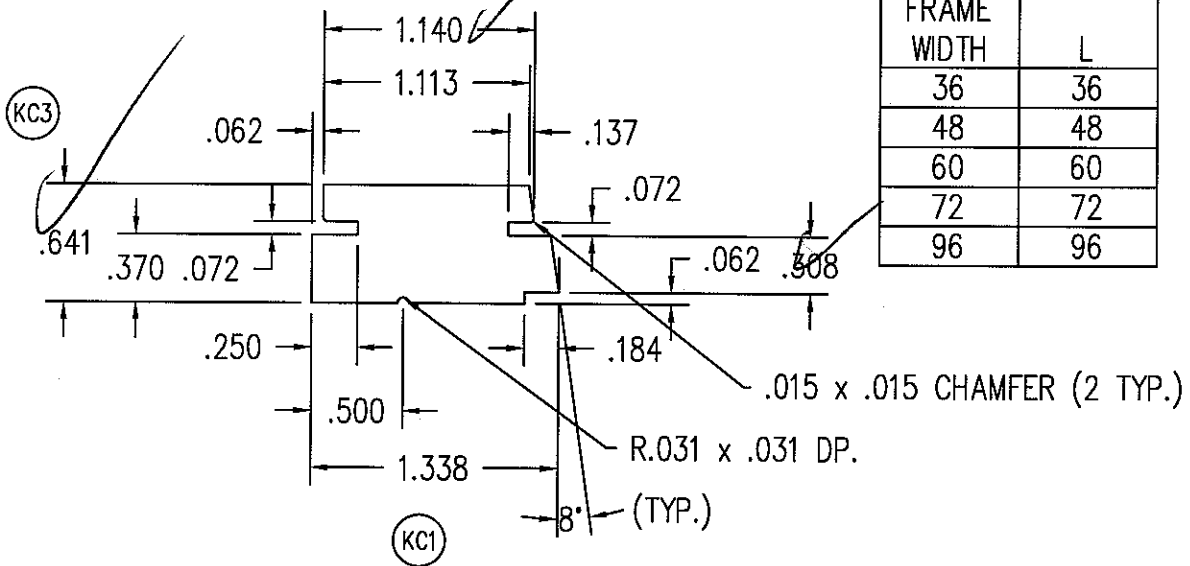
FINISH:

04	REMOVED DIRECTIONAL SYMBOL	JH	0911	8/10/04	MATL:	SEE PAGE 02
03	CORRECTED MACH. SYM.	DJF	0271	8/14/1998		
02	ADDED MACH. SYM.	CEL	1001	8/12/1997	DFT: GDE	SCALE: 2=1
01	REDESIGNED PROFILE	BRL	0215	9/28/1995	DCN: 0073	DRWG: 214C
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 3/3/1993	A 01 OF 02

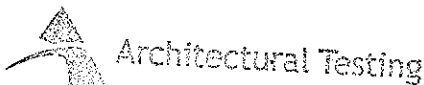
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ± 0.005 ; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
 2. L = FRAME WIDTH.



DOUBLE HUNG	
FRAME WIDTH	L
20	20
24	24
28	28
30	30
32	32
36	36
40	40
44	44
48	48
60	60



CSW	
FRAME WIDTH	L
36	36
48	48
60	60
72	72
96	96



Test sample complies with these details.
 Deviations are noted.

Report# 73123, 73111, 72964
 Date 5/29-6/1/07 Tech T6

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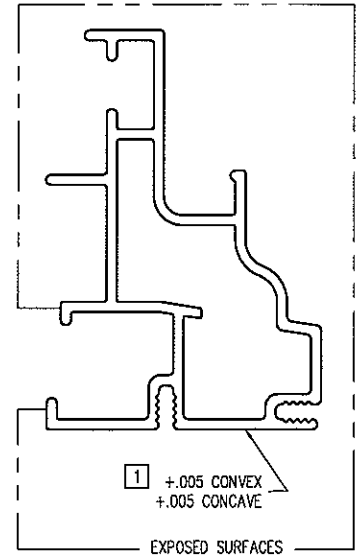
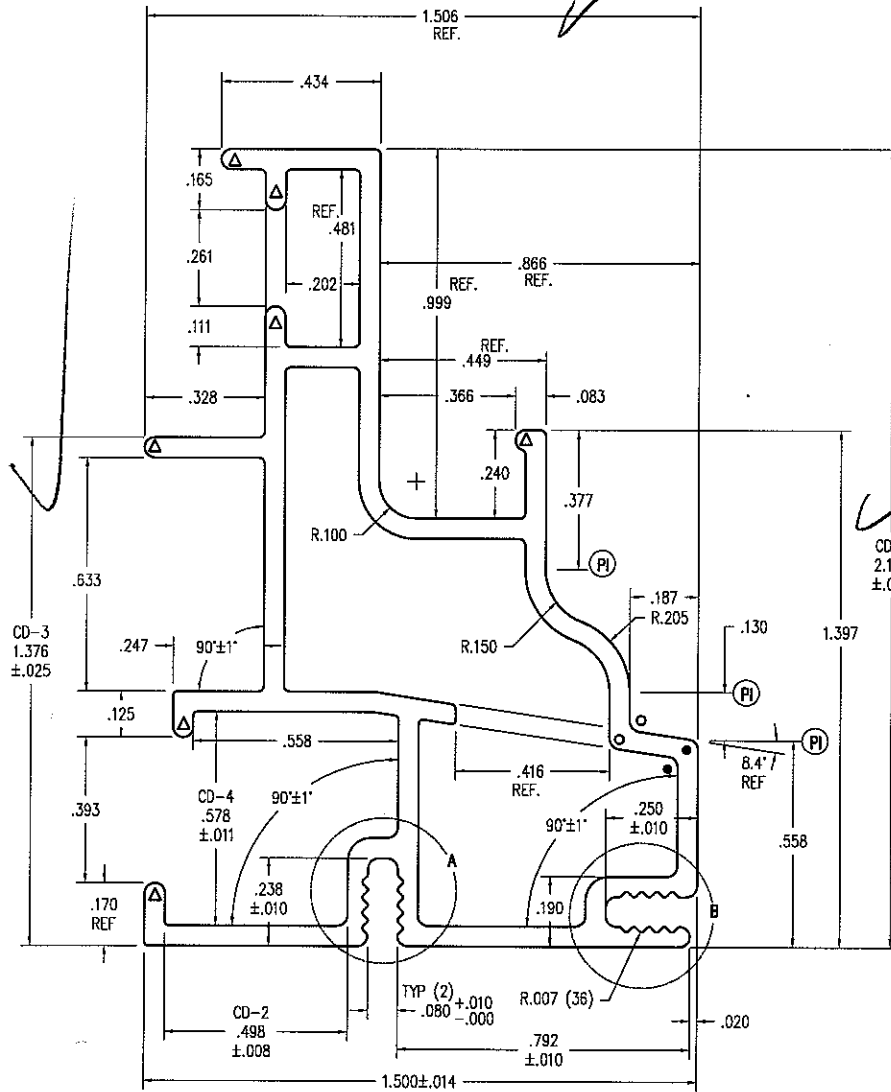
TITLE: CDHV/CDHVT/CSW
 THERMAL BLOCK

FINISH: PRESERVATIVE

MATL: EDGE GLUED AND
 FINGER JOINTED PINE

07	ADDED "PRESERVATIVE"	JH	0911	8/10/04	DFT: GDE	SCALE: 1=1
06	ADDED E-TILT DHG	RJW	0589	6/26/2002	DCN: 0073	DRWG: 2130
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 3/29/1993	A 01 OF 01

- 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 .010 RADIUS.
 4. AREA = .463 SQ.IN.
 5. MILL PART NO. = #45740

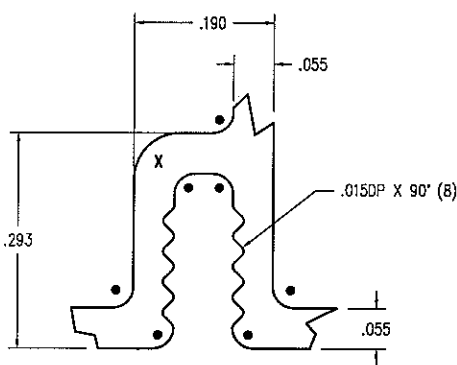


- R .028 (13)
- R .031 (3)
- X R .082 (2)
- △ FULL RAD.(5)

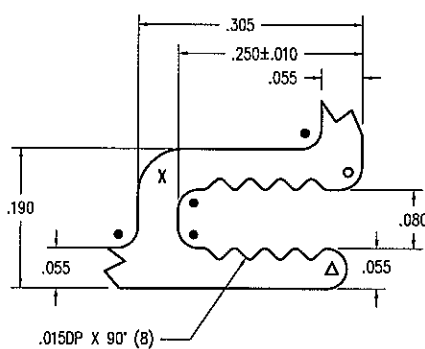
Architectural Testing

Test sample complies with these details.
 Deviations are noted.

Report# 73123/7311/72864
 Date 5/29-6/1/01 Tech 705



DETAIL "A"

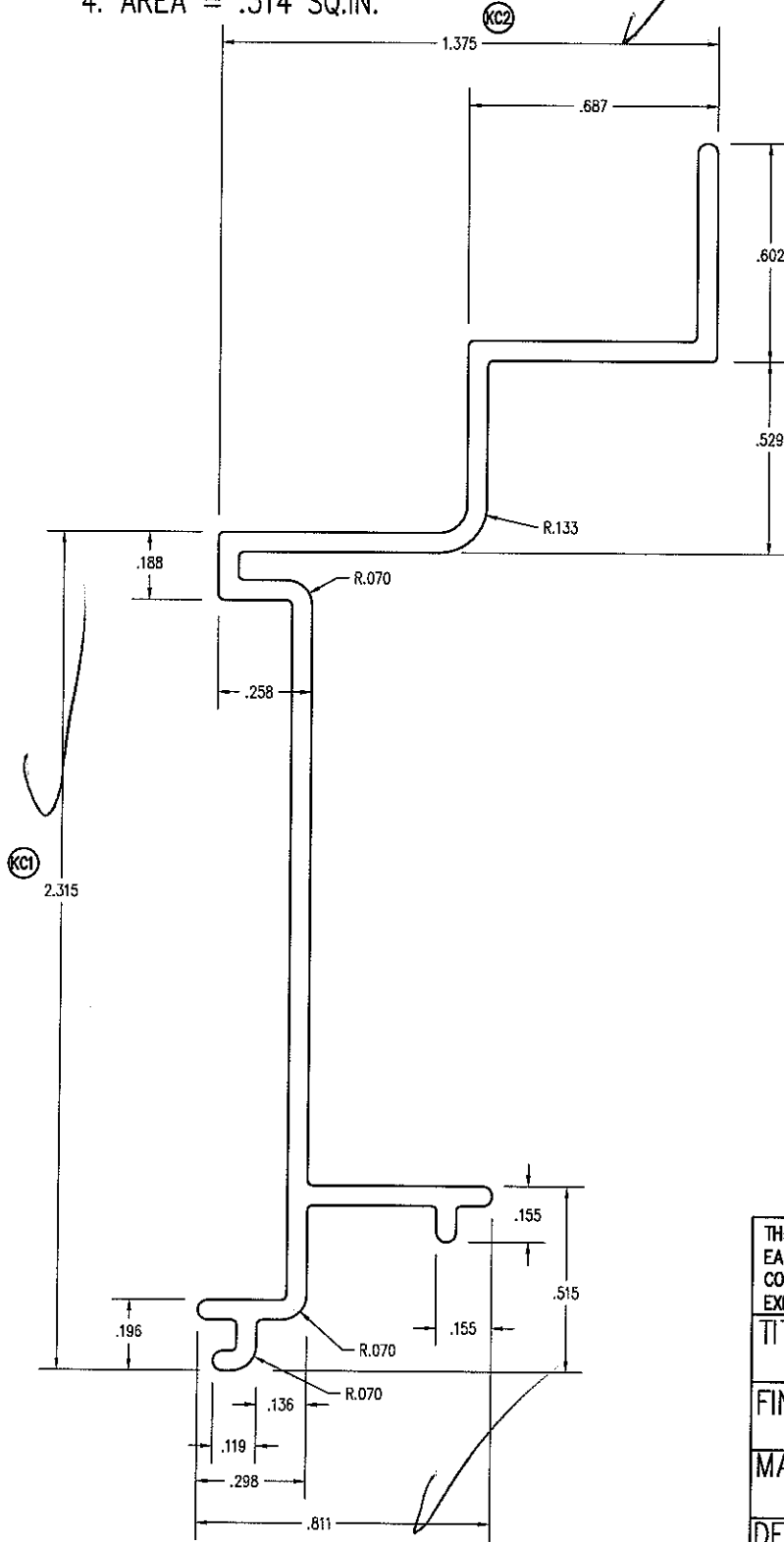


DETAIL "B"

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TITLE:	CDHV/CDHF/CSW
FINISH:	HEAD / SIDE FRAME COVER
FINISH:	EAGLE'S STD. COLORS
MATL:	6063 T-6 ALUMINUM
DFT:	AWW
SCALE:	2=1

01	ADDED/CHG'D DIM. & TOLERANCE	TWN	0778	14/4/2003	DCN:	0667	DRWG:	A514
NO	DESCRIPTION	DFT	DOC	DATE	DATE:	11/7/2001	C	01 OF 03

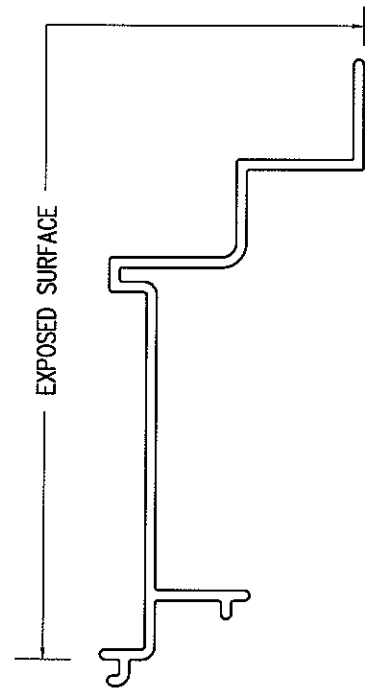
- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ± 0.005 ; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
2. UNLESS OTHERWISE SPECIFIED, WALL THICKNESS IS .055.
3. UNLESS OTHERWISE SPECIFIED, BREAK ALL CORNERS .015 RADIUS.
4. AREA = .314 SQ.IN.



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 73123, 73116, 72964
Date 5/29-6/4/02 Tech: TG



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TITLE: CDHF/CDHT
HEAD STOP EXTRUSION

FINISH: EAGLE'S STD. COLORS

MATL: 6063 T-6 ALUMINUM

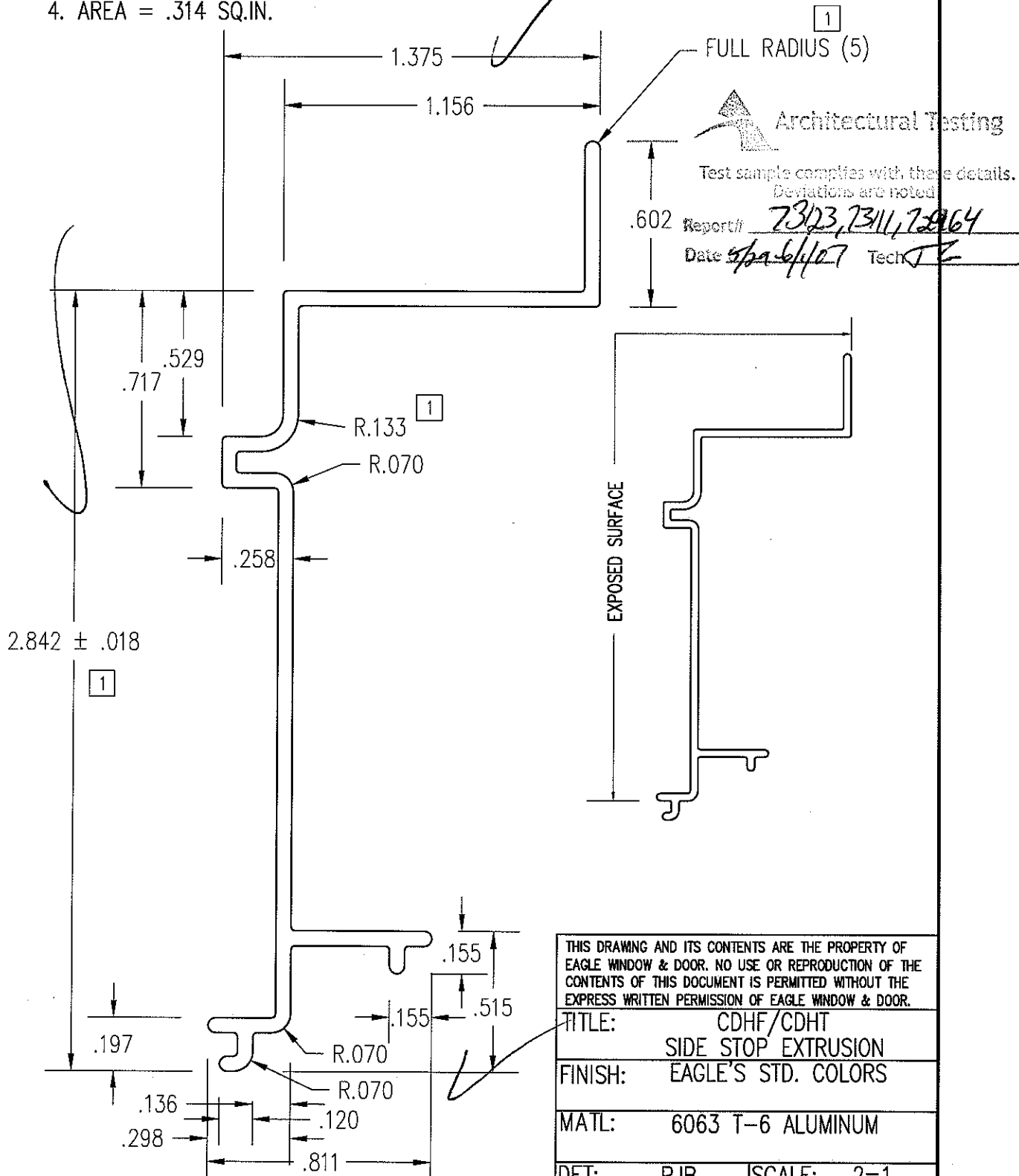
DFT: PJB SCALE: 2=1

DCN: 0667 DRWG: A51B

DATE: 1/14/02 A 01 OF 02

NO	DESCRIPTION	DFT	DOC	DATE

- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. $\pm .005$; 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.
4. AREA = .314 SQ.IN.



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TITLE: CDHF/CDHT
SIDE STOP EXTRUSION

FINISH: EAGLE'S STD. COLORS

MATL: 6063 T-6 ALUMINUM

DFT: PJB SCALE: 2=1

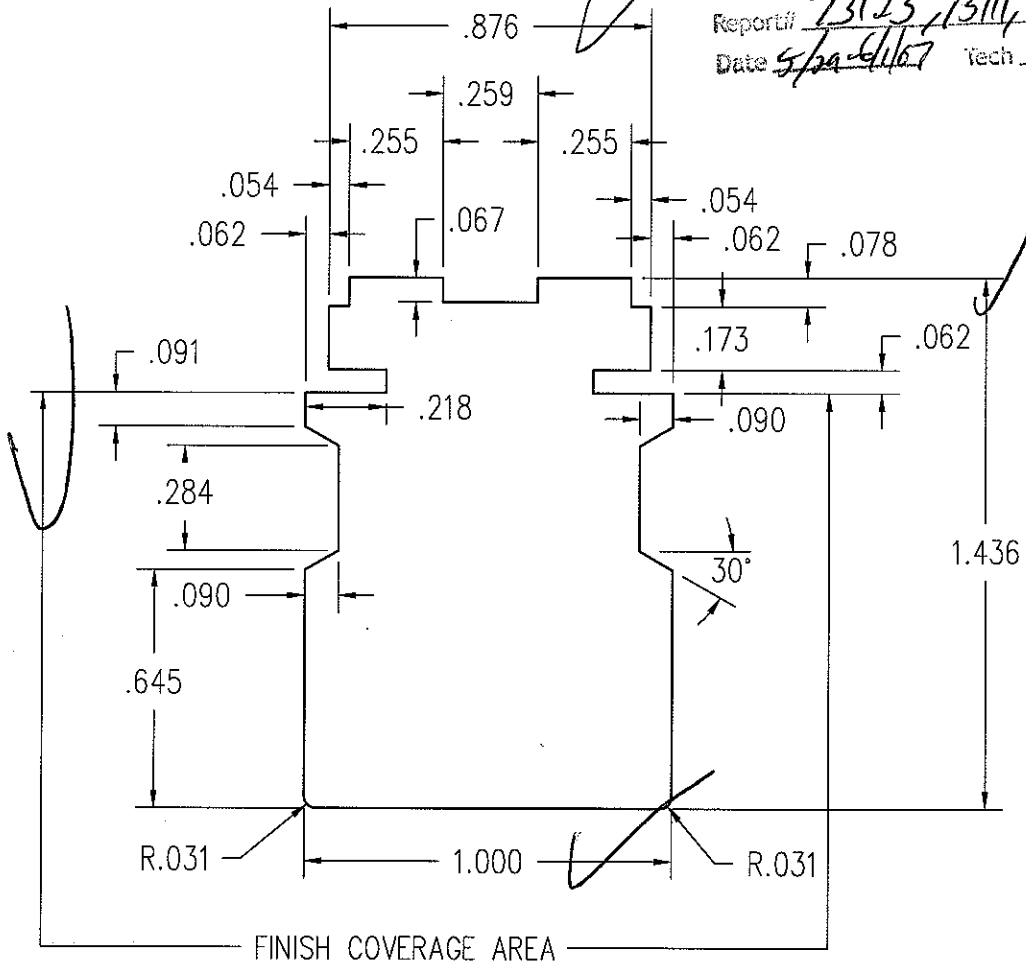
01	UPDATE & ADD DIMENSIONS	KJS	BOM	1/29/07	DCN: 0667	DRWG: A51C
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 1/14/2002	A 01 OF 02

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 $\pm 1/2^\circ$.

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 73123, 73111, 72964
Date 5/24/07 Tech TL



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TITLE: '07 CDHV/CSHV - STILE/RAIL

FINISH: PRESERVATIVE

MATL: CLEAR PINE

DFT: ksmith SCALE: 2=1

DCN: 0881 DRWG: 20F4

DATE: 1/4/2007 A 01 OF 06

NO	DESCRIPTION	DFT	DOC	DATE

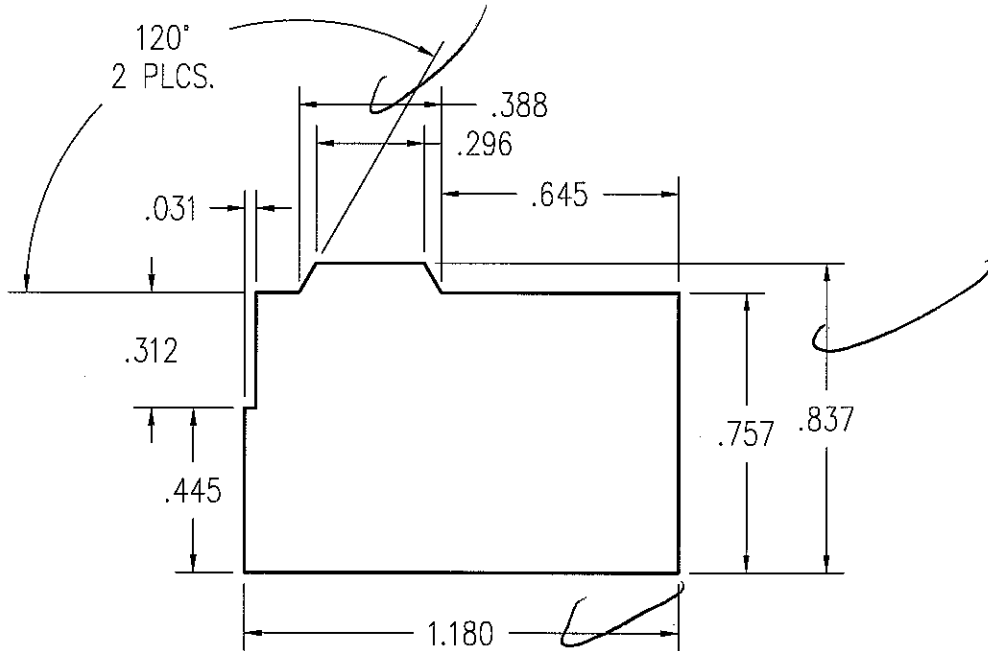
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ± 0.005 ; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 73123, 73111, 72964
Date 5/29-6/1/07 Tech TG



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TITLE: '07 CDHF, CDHT
HEAD & SIDE STOP SUPPORT

FINISH:

MATL: PINE-FINGER JOINT

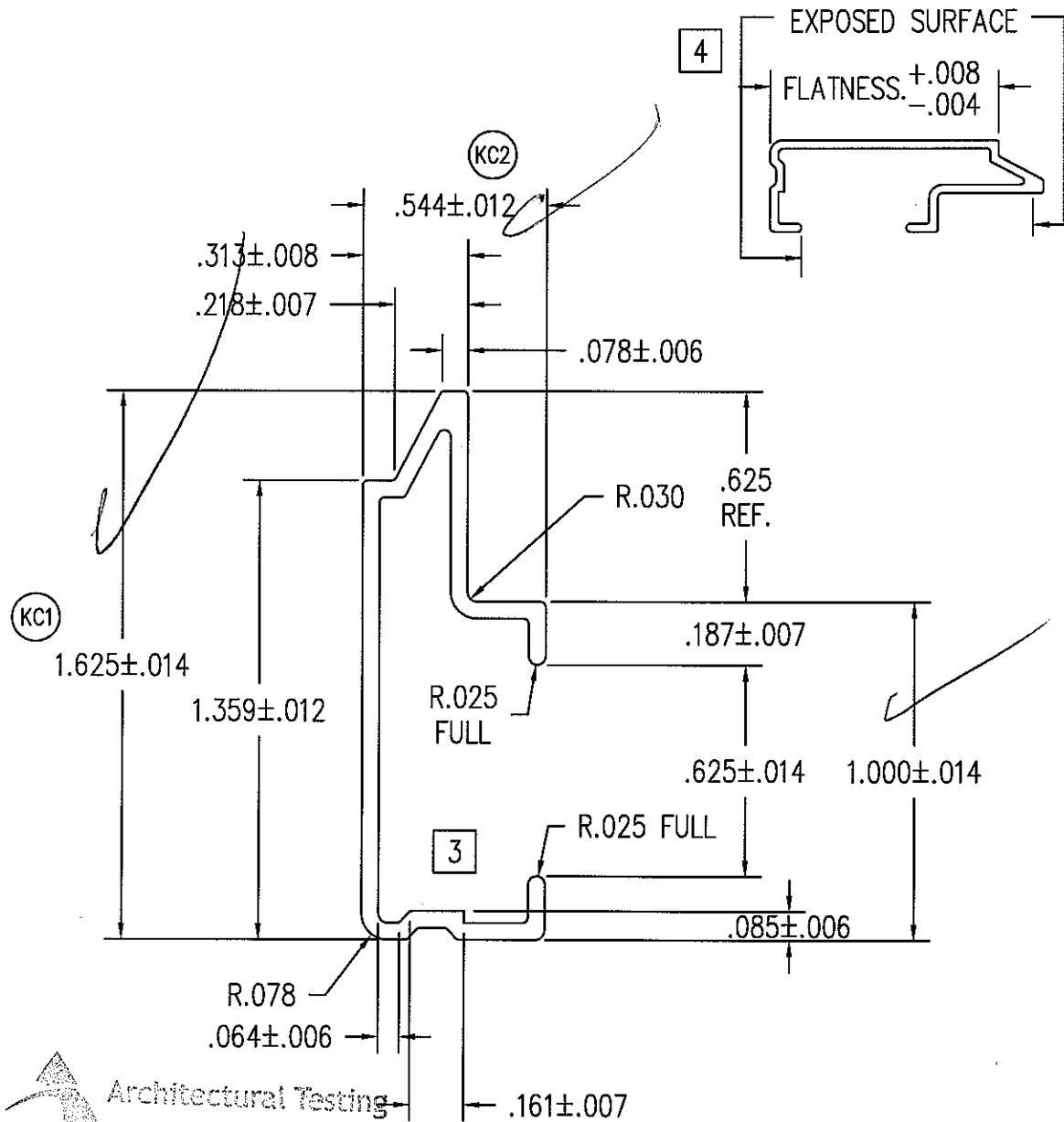
DFT: ksmith SCALE: 2=1

DCN: 0881 DRWG: 20FD

DATE: 2/1/2007 A 01 OF 04

NO	DESCRIPTION	DFT	DOC	DATE

- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. $\pm .005$; FRAC. $\pm 1/64$; ANGLES $\pm 1/2^\circ$.
 2. TYPICAL WALL THICKNESS $.050 \pm .005$.
 3. UNSPECIFIED RADIUS TO BE $.015$.

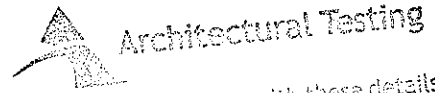


Test sample complies with these details.
 Deviations are noted.
 Report# 73123, 73111, 72964
 Date 5/29/1997 Tech STG

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 TITLE: CDHV, CDHF, CSW, CDHVET SASH COVER
 FINISH: EAGLE'S STD. COLORS

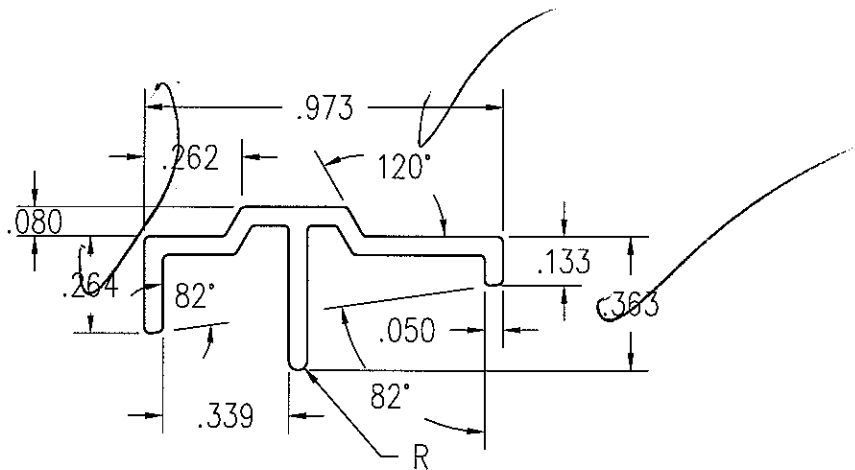
05	ADDED E-TILT DHG	RJW	0589	6/26/2002		
04	ADDED TOLERANCE SPECS.	TWN	0595	8/31/2001	MATL:	6063 T-6 ALUMINUM OR EQUIVALENT
03	REVISED PROFILE	CEL	0366	10/27/1998	DFT:	GDE
02	CHG'D DESCRIPTION	CEL	0247	4/14/1997	SCALE:	2=1
01	PROFILE REDESIGNED	BRL	0215	8/29/1995	DCN:	0073
NO	DESCRIPTION	DFT	DOC	DATE	DATE:	3/26/1993
					A	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 $\pm 1/2^\circ$.
2. TYPICAL WALL THICKNESS .050
3. ALL RADIUS TO BE .015 UNLESS OTHERWISE SPECIFIED.
4. AREA = .087 SQ. IN.



Test sample complies with these details.
Deviations are noted.

Report# 73123, 73111, 72964
Date 5/29-6/1/07 Tech TG



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TITLE: '07 CDHT
LOWER RAIL STOP

FINISH: EAGLE'S STD. COLORS

MATL: 6063 - T6 ALUMINUM

DFT: tnies SCALE: 2=1

DCN: 0881 DRWG: A745

DATE: 1/31/2007 A 01 OF 02

NO	DESCRIPTION	DFT	DOC	DATE