

**ASTM E 1886 and ASTM E 1996  
TEST REPORT**

**Rendered to:**

**EAGLE WINDOW & DOOR, INC.**

**SERIES/MODEL: 3466 Double Hung  
with insulated impact glazing  
PRODUCT TYPE: Aluminum Clad Wood Double Hung  
with insulated impact glazing**

Report No.: 73109.02-201-44  
Test Dates: 05/30/07  
Through: 05/31/07  
Report Date: 07/12/07  
Expiration Date: 05/31/11

**ASTM E 1886 and ASTM E 1996 TEST REPORT**

Rendered to:

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

Report No.: 73109.02-201-44  
Test Dates: 05/30/07  
Through: 05/31/07  
Report Date: 07/12/07  
Expiration Date: 05/31/11

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted by Eagle Window & Door, Inc. perform testing on a Series/Model 3466 Double Hung with insulated impact glazing, Aluminum Clad Wood Double Hung with insulated impact glazing. The samples tested met the performance requirements set forth in the referenced test procedures for a +2640, -3120 Pa (+55.0, -65.0 psf) Design Pressure with missile impacts corresponding to Missile Level D and Wind Zone 3. Test specimen description and results are reported herein.

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

*ASTM E 1886-02, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.*

*ASTM E 1996-02, Standard Specification for Performance of Exterior Windows, Glazed Curtain Walls, Doors and Storm Shutters Impacted by Wind Borne Debris in Hurricanes.*

**Test Specimen Description:**

**Series/Model:** 3466 Double Hung with insulated impact glazing

**Product Type:** Aluminum Clad Wood Double Hung with insulated impact glazing window

**Overall Size:** 1016 mm (40") wide by 1981 mm (78") high

**Lower Sash Size:** 914 mm (36-1/4") wide by 997 mm (39-1/4") high

**Upper Sash Size:** 914 mm (36-1/4") wide by 946 mm (37-1/4") high

**Overall Area:** 2.2 m<sup>2</sup> (21.7 ft<sup>2</sup>)

**Test Specimen Description:** (Continued)

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

**Glazing Details:** The sash were glazed with nominal 19 mm (3/4") insulating glass comprised 3 mm (1/8") annealed exterior sheet and a 8 mm laminated interior sheet separated by a desiccant-filled stainless steel spacer system. The interior laminated sheet was comprised of two 3 mm (1/8") annealed sheets and a 2 mm (0.090") PVB interlayer. The glass was set from the interior against InstantGlaze II silicone sealant, backfilled with silicone 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.

**Weatherstripping:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Hollow vinyl bulb	1 Row	Lower sash bottom rail; upper sash meeting rail
Foam filled bulb	1 Row	Head jamb and side jambs
Wool pile	2	Side jambs at check rail

**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:** The lower sash and upper sash, top rail and stiles consisted of molded pine sections, the lower sash meeting rail was LVL. Upper sash corners were mortise-and-tenon construction and secured with glue and one 5 mm (3/16") by 38 mm (1-1/2") staple per corner. Aluminum cladding was slip-fit over wood members, upper sash corners were miter-cut, sealed with butyl and secured with a corner key and two #4 by 13 mm (1/2") screws per corner. Lower sash corners were mortise-and-tenon construction; meeting rail corners were secured with glue and two 5 mm (3/16") by 38 mm (1-1/2") staples per corner; bottom rail corners were secured with glue and one #8 by 57 mm (2-1/4") screw per corner. Aluminum cladding was slip-fit over wood members, corners were coped, butted and sealed with butyl.

**Test Specimen Description:** (Continued)

**Screen Construction:** The screen was comprised of roll-formed aluminum with plastic corner keys. Fiberglass screen cloth was attached with a vinyl spline.

**Hardware:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Vinyl jamb liner with block-and-tackle balance	2	Jamb pockets
Sweep locks and keepers with integrated tilt latches	2	203 mm (8") from sash corner
Stainless steel tilt pins	4	Bottom corners of stiles

**Installation:**

Assembly #1: 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 152 mm (6") from corners and 406 mm (16") on center. The unit was sealed to the buck with silicone.

Assemblies #2 and 3: The window was installed within a wood test frame and secured through the jambs with #8 by 70 mm (2-3/4") screws that were spaced 152 mm (6") from corners and 406 mm (16") on center. The unit was sealed to the buck with silicone.

**Test Results:** The following results have been recorded:

**ASTM E 1886, *Large Missile Impact***

**Conditioning Temperature:** 24°C (76°F)

**Missile Weight:** 4082 g (9.0 lbs)

**Missile Length:** 2926 mm (96")

**Muzzle Distance from Test Specimen:** 4.88 m (16 ft.)

**Test Unit #1**

**Impact #1:** Missile Velocity: 15.3 m/s (50.2 fps); orientation within  $\pm 5^\circ$  of vertical

**Impact Area:** Center of glazing; lower sash

**Observations:** No rips, tears or penetration

**Results:** Pass

**Test Unit #2**

**Impact #1:** Missile Velocity: 14.9 m/s (49.0 fps); orientation within  $\pm 5^\circ$  of vertical

**Impact Area:** Lower left glazing corner; lower sash

**Observations:** No rips, tears or penetration

**Results:** Pass

**Test Unit #3**

**Impact #1:** Missile Velocity: 15.1 m/s (49.4 fps); orientation within  $\pm 5^\circ$  of vertical

**Impact Area:** Upper right glazing corner; lower sash

**Observations:** No rips, tears or penetration

**Results:** Pass

**Test Results:** (Continued)

**ASTM E 1886-02, Air Pressure Cycling**

**Test Unit #1**

**Design Pressure:** +2640, -3120 Pa (+55.0, -65.0 psf)

**POSITIVE PRESSURE**

<b>Pressure Range Pa (psf)</b>	<b>Number of Cycles</b>	<b>Average Cycle Time (seconds)</b>	<b>Observations</b>
525 to 1315 (11.0 to 27.5)	3500	1.50	No rips, tears or penetration
0 to 1580 (0.0 to 33.0)	300	1.71	No rips, tears or penetration
1315 to 2105 (27.5 to 44.0)	600	1.17	No rips, tears or penetration
790 to 2640 (16.5 to 55.0)	100	2.41	No rips, tears or penetration

**NEGATIVE PRESSURE**

<b>Pressure Range Pa (psf)</b>	<b>Number of Cycles</b>	<b>Average Cycle Time (seconds)</b>	<b>Observations</b>
935 to 3120 (19.5 to 65.0)	50	2.50	No rips, tears or penetration
1555 to 2490 (32.5 to 52.0)	1050	1.31	No rips, tears or penetration
0 to 1865 (0.0 to 39.0)	50	2.55	No rips, tears or penetration
620 to 1555 (13.0 to 32.5)	3350	1.57	No rips, tears or penetration

**Result:** Pass

**Test Results:** (Continued)

**ASTM E 1886-02, Air Pressure Cycling**

**Test Unit #2**

**Design Pressure:** +2640, -3120 Pa (+55.0, -65.0 psf)

**POSITIVE PRESSURE**

<b>Pressure Range Pa (psf)</b>	<b>Number of Cycles</b>	<b>Average Cycle Time (seconds)</b>	<b>Observations</b>
525 to 1315 (11.0 to 27.5)	3500	1.50	No rips, tears or penetration
0 to 1580 (0.0 to 33.0)	300	1.71	No rips, tears or penetration
1315 to 2105 (27.5 to 44.0)	600	1.17	No rips, tears or penetration
790 to 2640 (16.5 to 55.0)	100	2.41	No rips, tears or penetration

**NEGATIVE PRESSURE**

<b>Pressure Range Pa (psf)</b>	<b>Number of Cycles</b>	<b>Average Cycle Time (seconds)</b>	<b>Observations</b>
935 to 3120 (19.5 to 65.0)	50	2.50	No rips, tears or penetration
1555 to 2490 (32.5 to 52.0)	1050	1.31	No rips, tears or penetration
0 to 1865 (0.0 to 39.0)	50	2.55	No rips, tears or penetration
620 to 1555 (13.0 to 32.5)	3350	1.57	No rips, tears or penetration

**Result:** Pass

**Test Results:** (Continued)

**ASTM E 1886-02, Air Pressure Cycling**

**Test Unit #3**

**Design Pressure:** +2640, -3120 Pa (+55.0, -65.0 psf)

**POSITIVE PRESSURE**

<b>Pressure Range Pa (psf)</b>	<b>Number of Cycles</b>	<b>Average Cycle Time (seconds)</b>	<b>Observations</b>
525 to 1315 (11.0 to 27.5)	3500	1.46	No rips, tears or penetration
0 to 1580 (0.0 to 33.0)	300	2.49	No rips, tears or penetration
1315 to 2105 (27.5 to 44.0)	600	1.45	No rips, tears or penetration
790 to 2640 (16.5 to 55.0)	100	2.15	No rips, tears or penetration

**NEGATIVE PRESSURE**

<b>Pressure Range Pa (psf)</b>	<b>Number of Cycles</b>	<b>Average Cycle Time (seconds)</b>	<b>Observations</b>
935 to 3120 (19.5 to 65.0)	50	2.09	No rips, tears or penetration
1555 to 2490 (32.5 to 52.0)	1050	1.38	No rips, tears or penetration
0 to 1865 (0.0 to 39.0)	50	2.04	No rips, tears or penetration
620 to 1555 (13.0 to 32.5)	3350	1.56	No rips, tears or penetration

**Result:** Pass

**General Note:** Upon completion of testing, the specimens met the requirements of Section 7 of ASTM E 1996.

**Test Equipment:**

**Cannon:** Constructed from steel piping utilizing compressed air to propel the missile

**Missile:** 2x4 Southern Pine

**Timing Device:** Electronic Beam Type

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

**Deflection Measuring Device:** linear transducers

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.

**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.

**Drawing Reference:** The attached drawings have been checked by ATI and are representative of the samples tested.

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.

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Eric J. Schoenthaler  
Project Manager

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Daniel A. Johnson  
Director – Regional Operations

EJS/mb

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

Appendix A: WDMA Submittal Forms (2)

Appendix-B: Drawings (41)

### 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



## **Appendix A**

### **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](mailto: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 #: 73109.02

Email: tbergstrom@eaglewindow.com

Product Relationship:

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

If yes, what CCL # ?      Pending \_\_\_\_\_

Difference from Certified Product:      Impact Resistant, Unit Size \_\_\_\_\_

Is this a Gateway Test ?       yes  no  n/a

Does this report require a Gateway Report # ?  yes  no  n/a      Report #: 73119.01

Impact Report:

If this is not an impact report check here:

AWS Report # 73119.01

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 Vent  
(as to be listed on CCL)

Product Type: Hung Window – Vertical Sliding

Additional Manufacturer ID #: \_\_\_\_\_

n/a

Hallmark CCL	Standard	Rating
<input type="checkbox"/>	ANSI/AAMA/NWWDA 101/I.S. 2 97	_____
<input type="checkbox"/>	101/I.S.2/NAFS-02	_____
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**Appendix B**

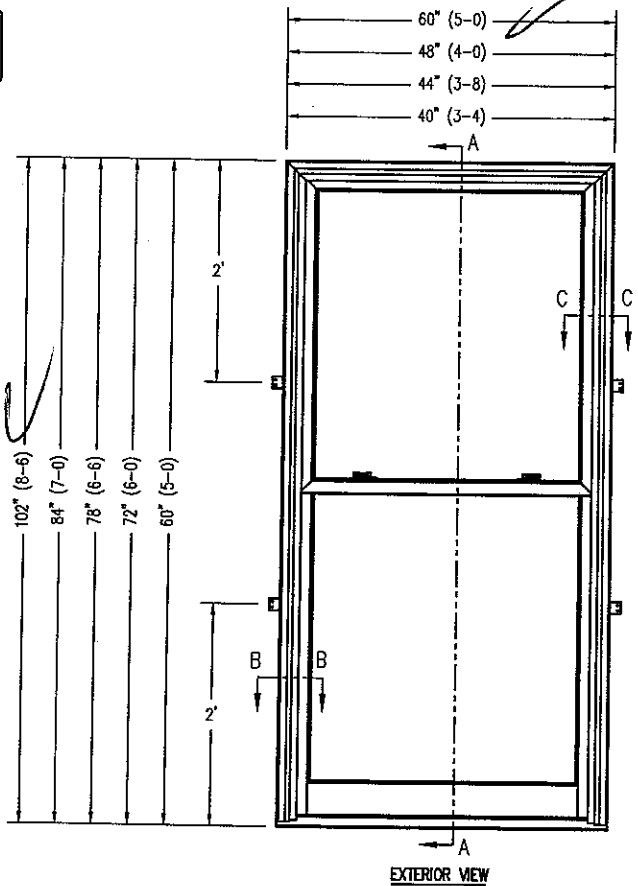
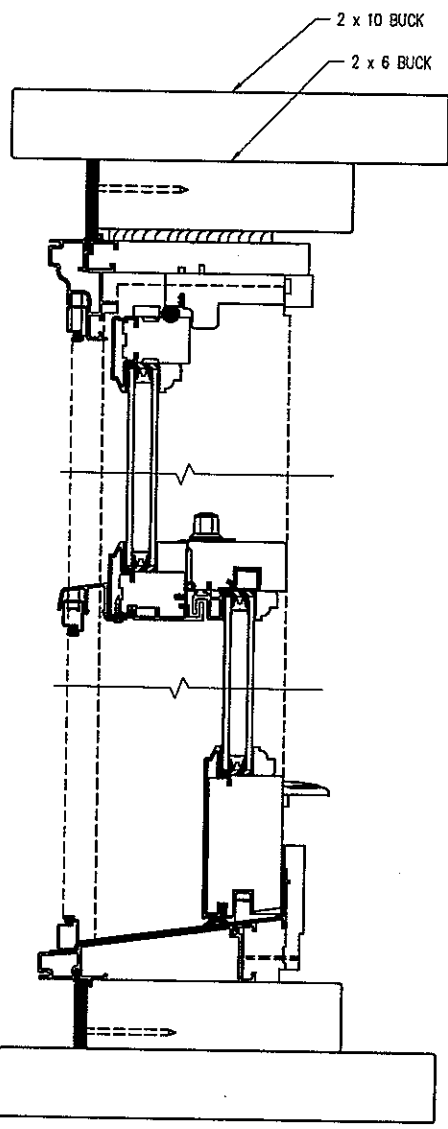
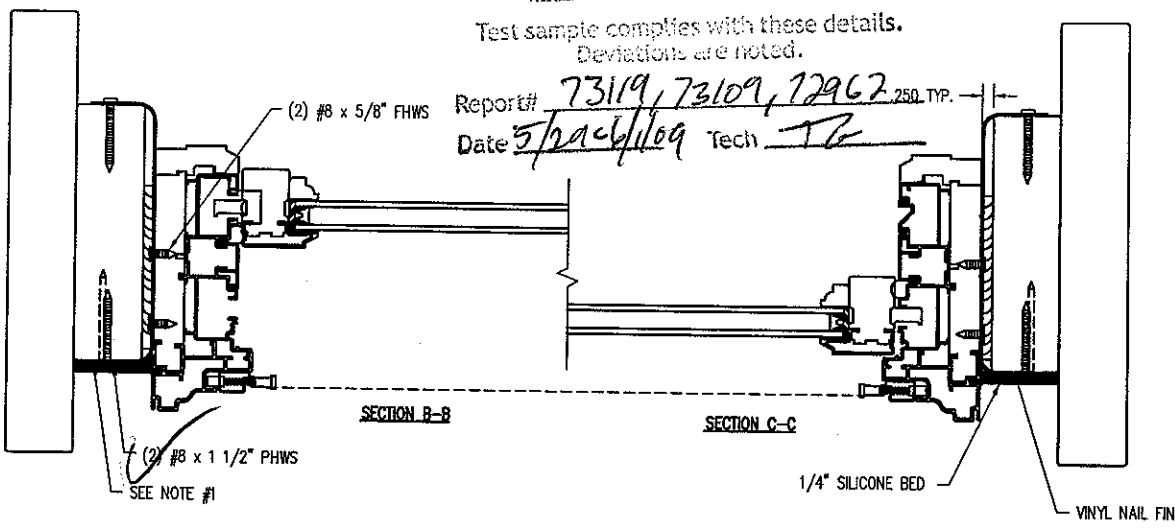
**Drawings**

1. (36) 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# 73119, 73109, 12962 250. TYP.  
Date 5/29/09 Tech TG



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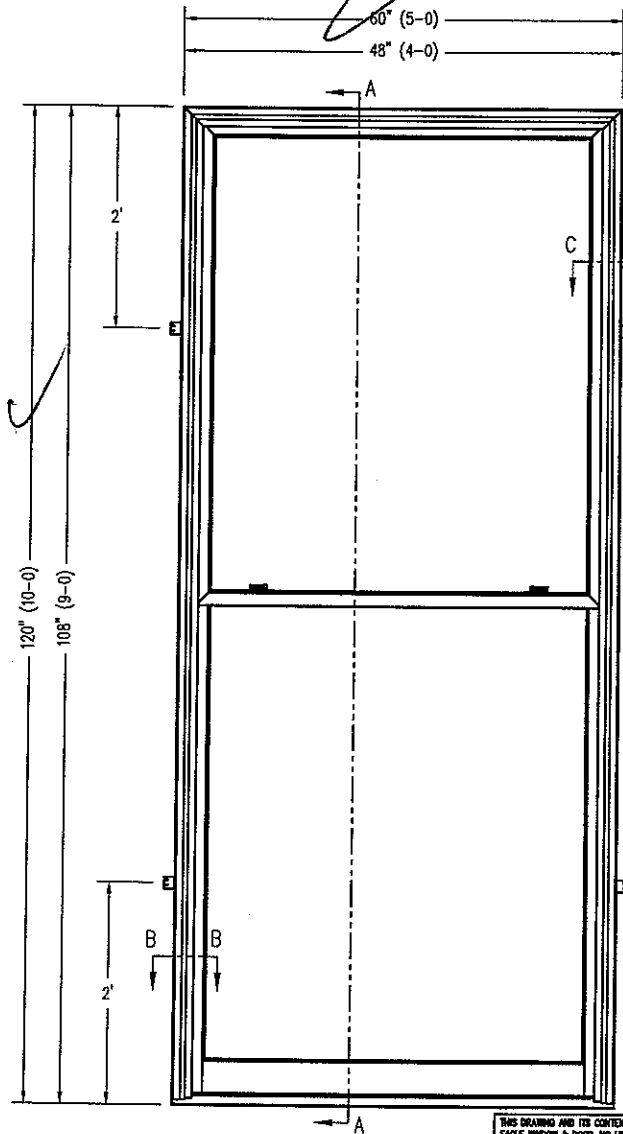
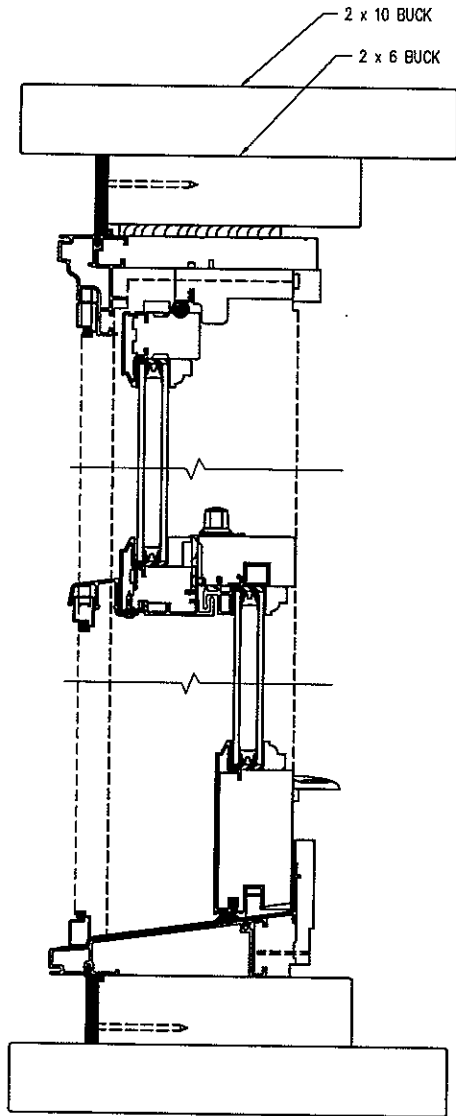
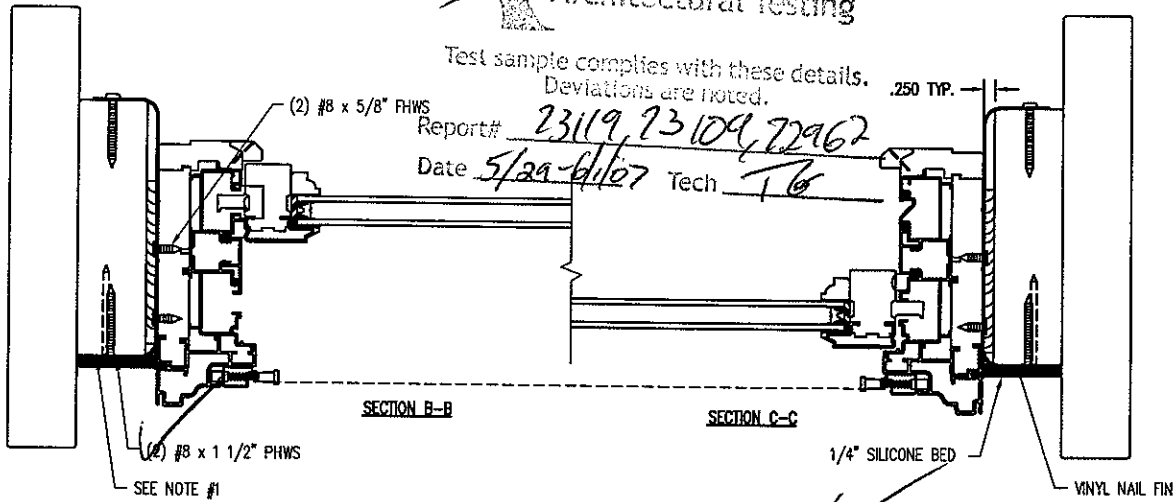
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1. (36) 2" ROOFING NAILS THROUGH NAIL FIN INTO BUCK SPACES 3 1/2" FROM EACH END AND 6" ON CENTER THEREAFTER.

Architectural Testing

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Deviations are noted.

Report# 23119, 23109, 22962  
Date 5/29-6/10/07 Tech TB



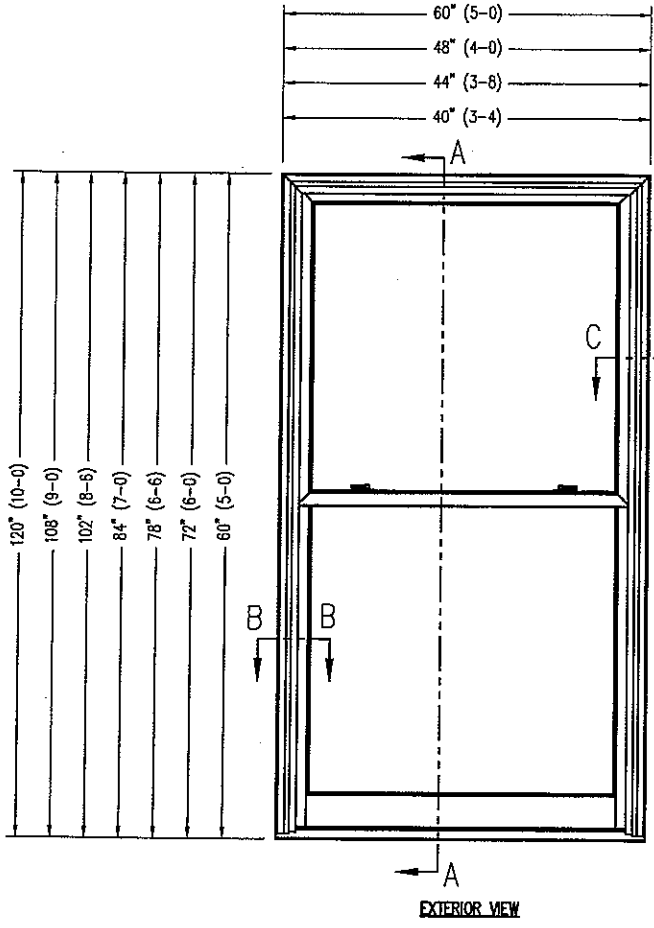
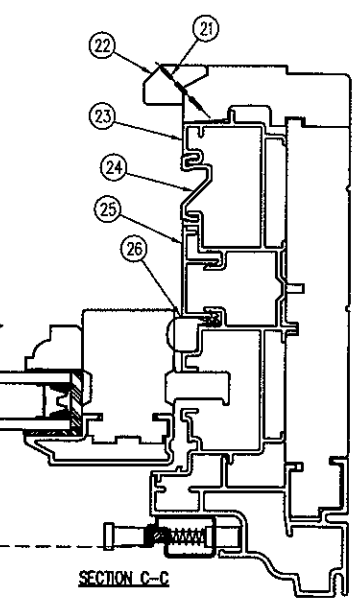
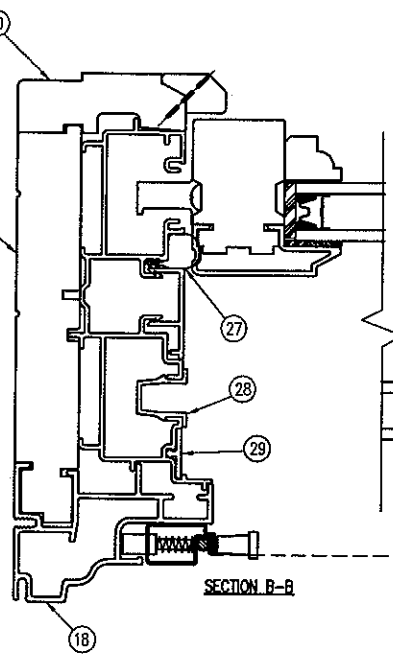
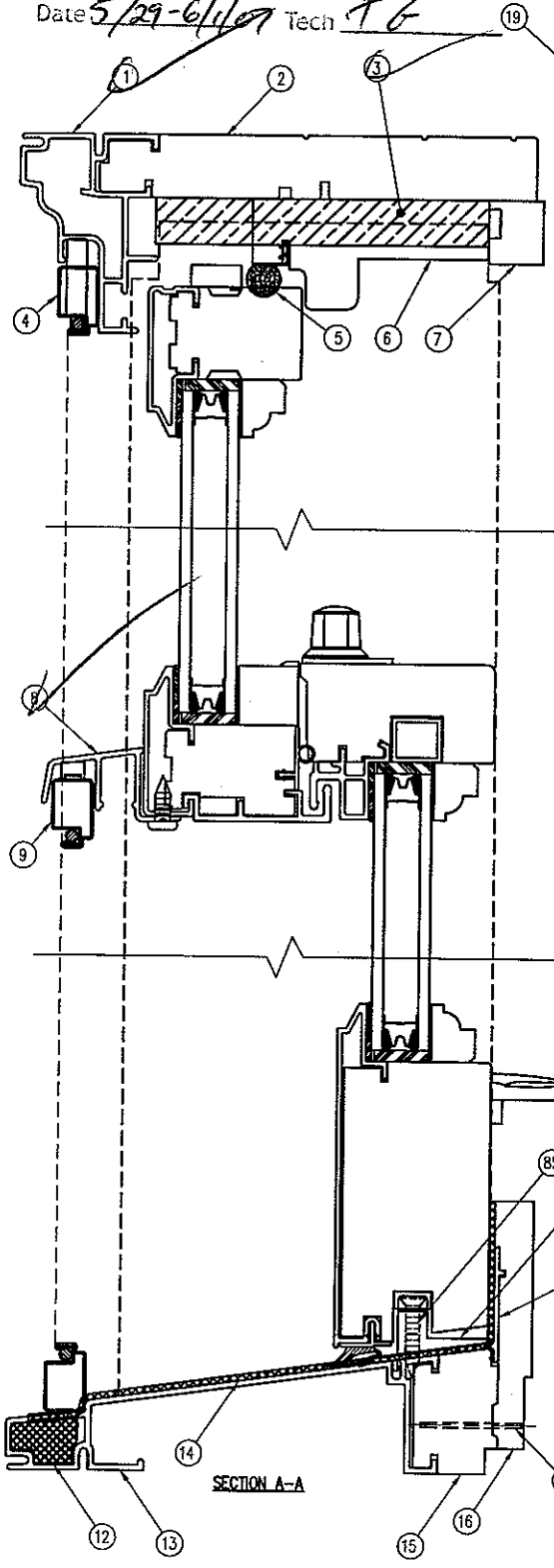
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DCN: 0881 DRWG: 0535  
DATE: 3/19/07 C 02

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UNIT ASSEMBLY

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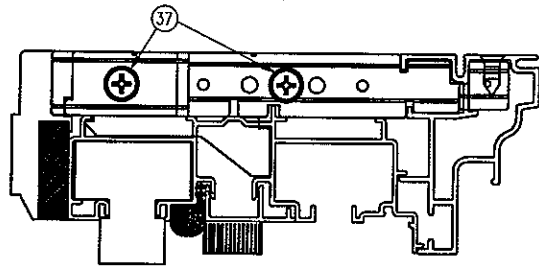
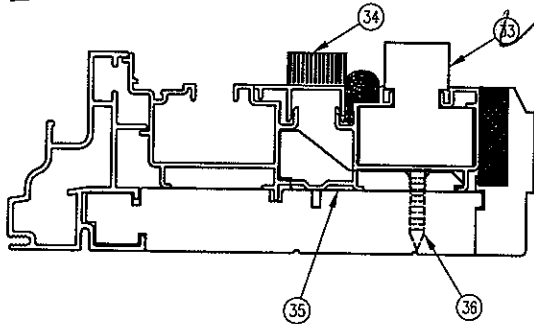
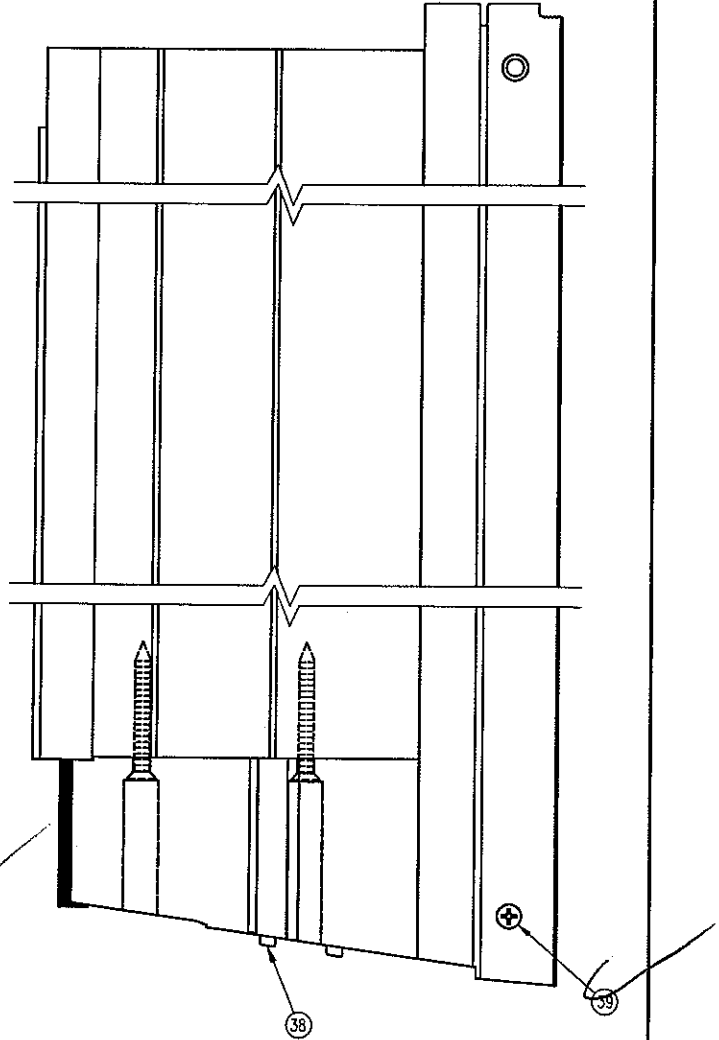
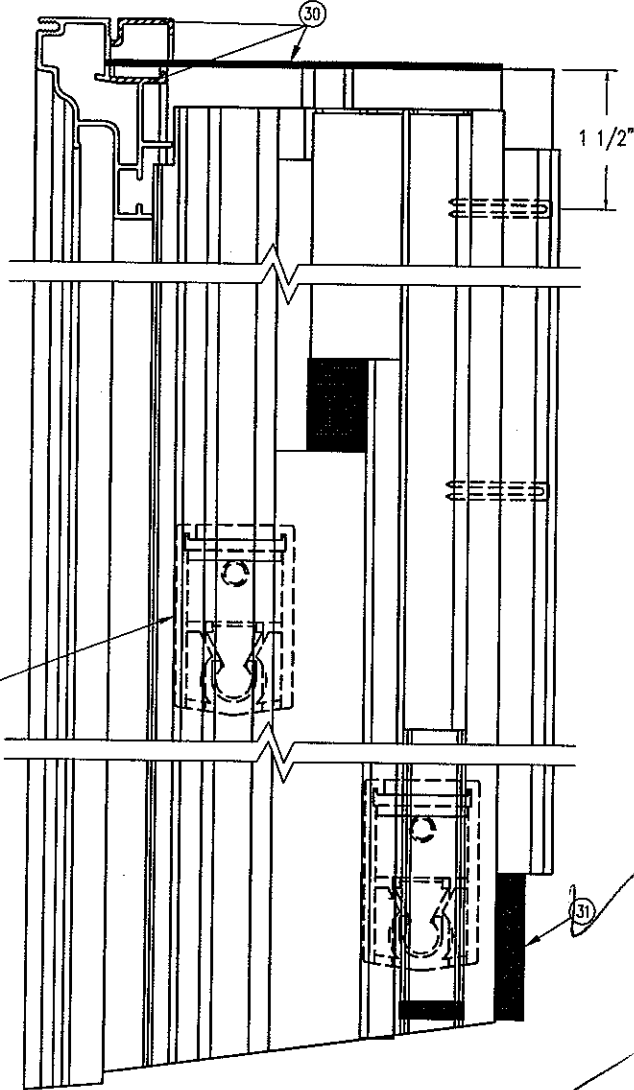
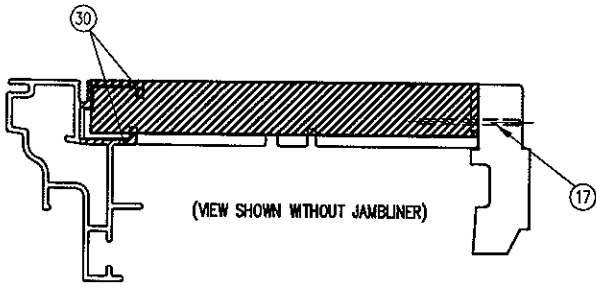


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Date 5/29-6/1/07 Tech TG



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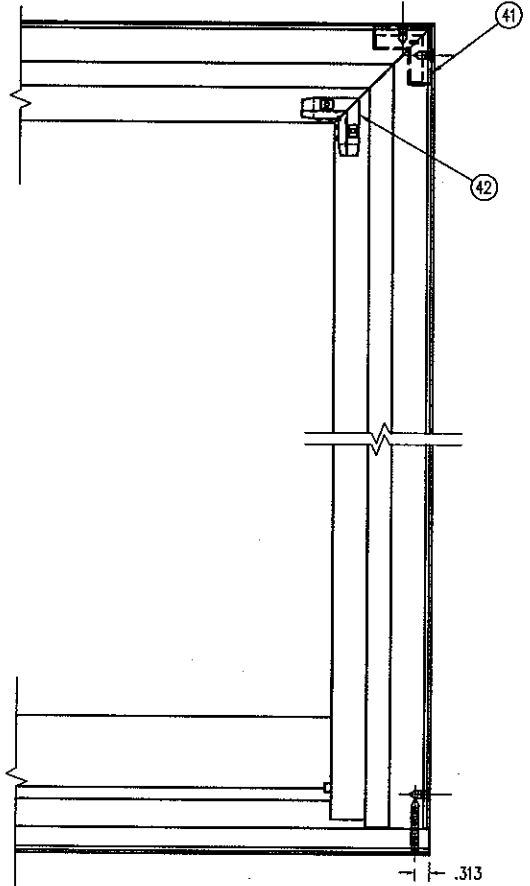
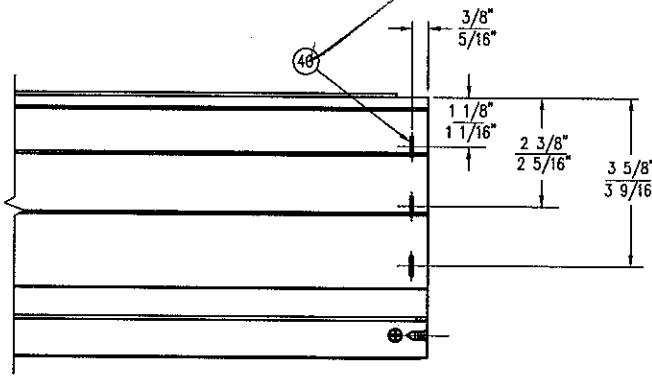
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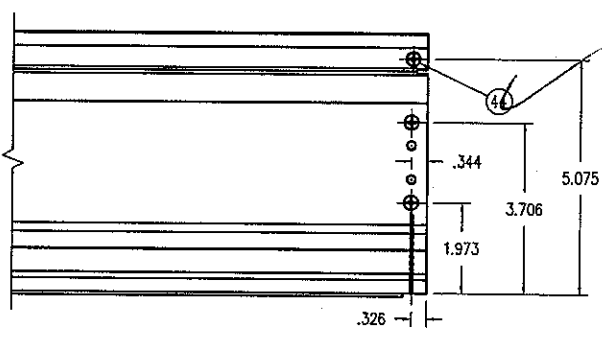
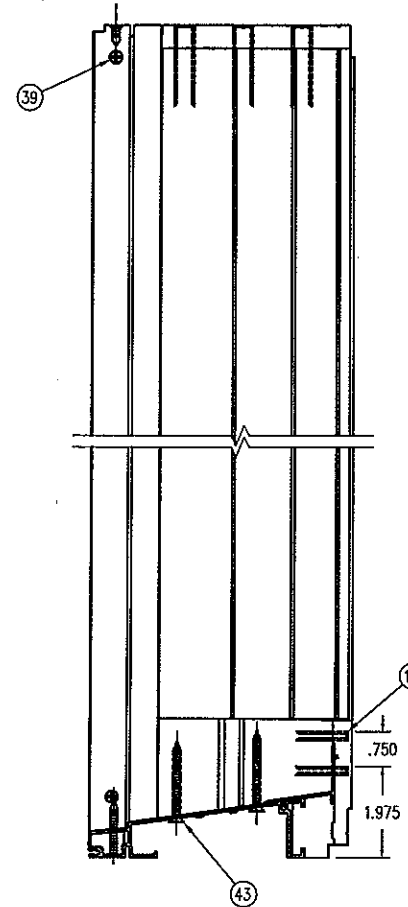
# Architectural Testing

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EXTERIOR VIEW



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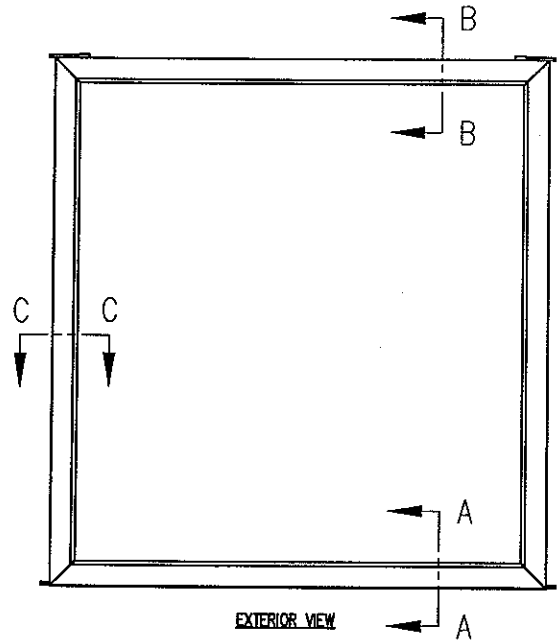
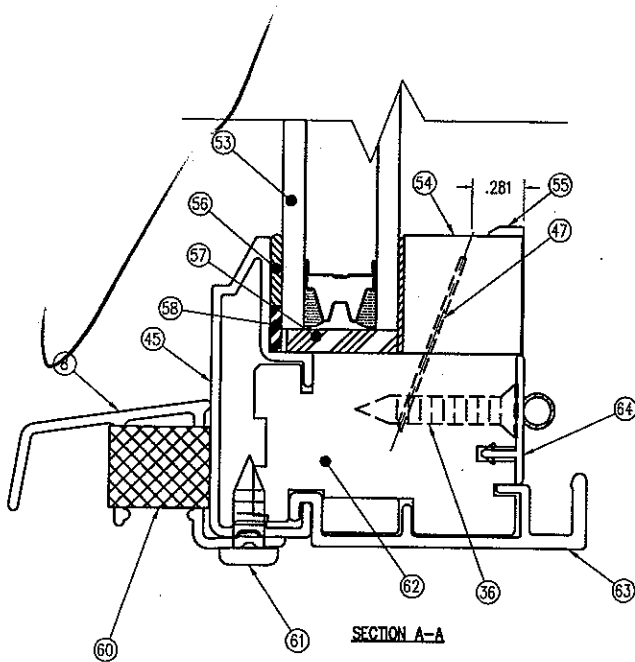
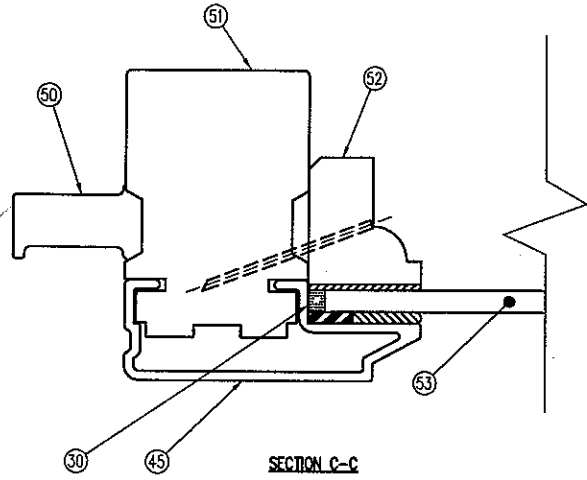
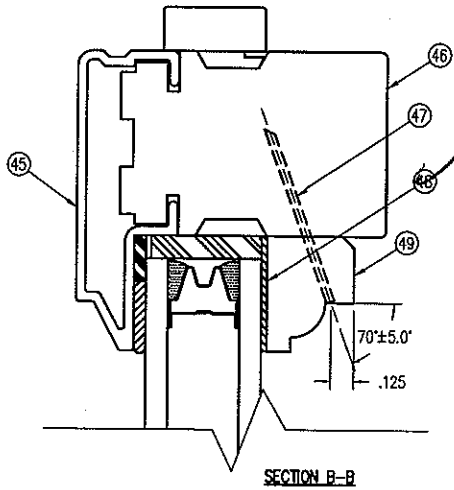
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# Architectural Testing

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Report# 73119, 73109, 72902  
Date 5/29-6/1/07 Tech LG



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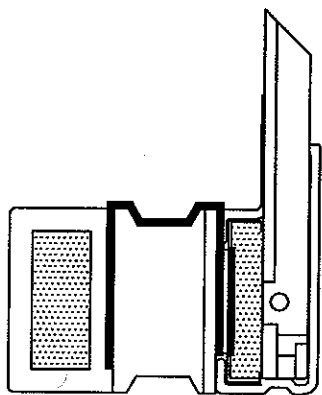
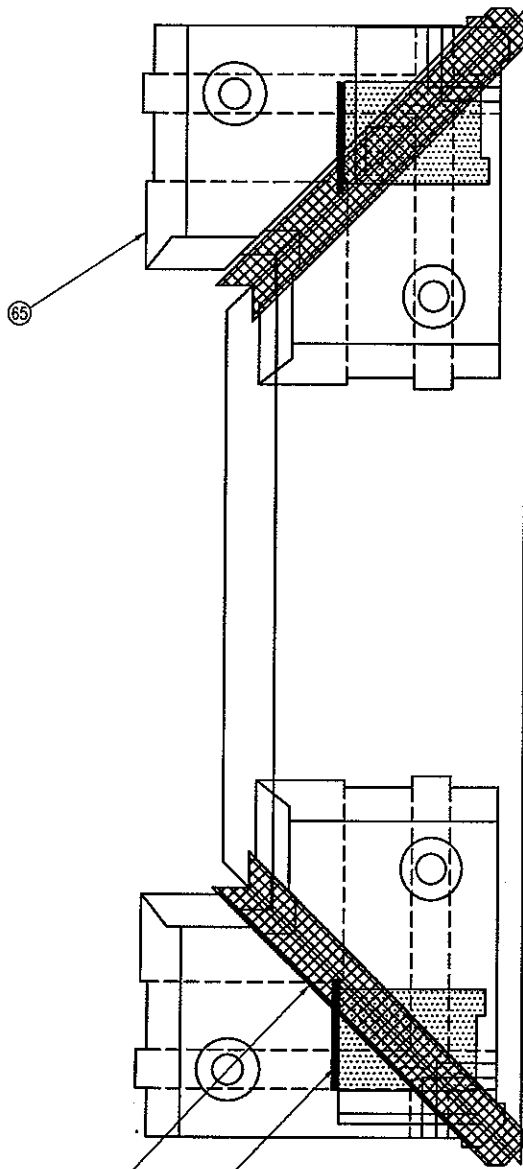
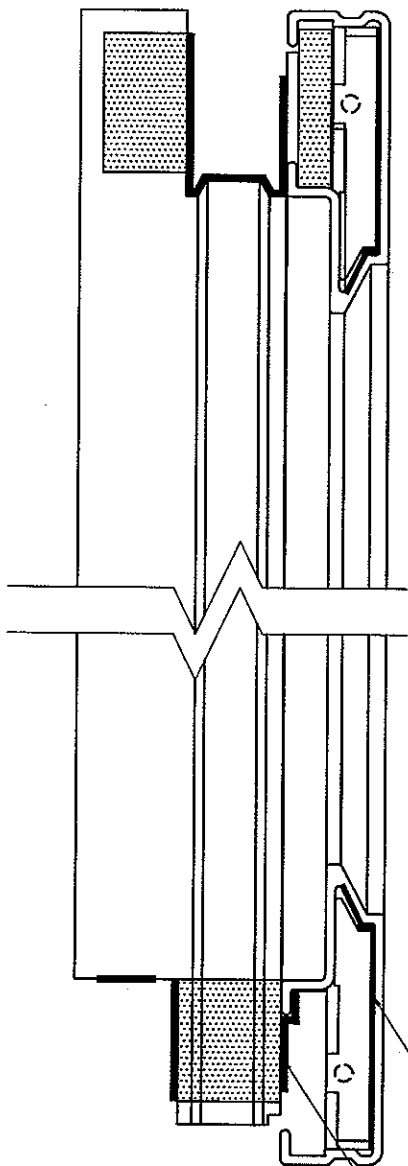
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UPPER SASH ASSEMBLY

FINISH:

MATERIAL:

DFT: KJS SCALE: 1=1  
DCN: 0881 DRWG: 0534  
DATE: 3/19/07 C 04

NO	DESCRIPTION	DFT	DOC	DATE



59

66



**Architectural Testing**

Test sample complies with these details.  
Deviations are noted.

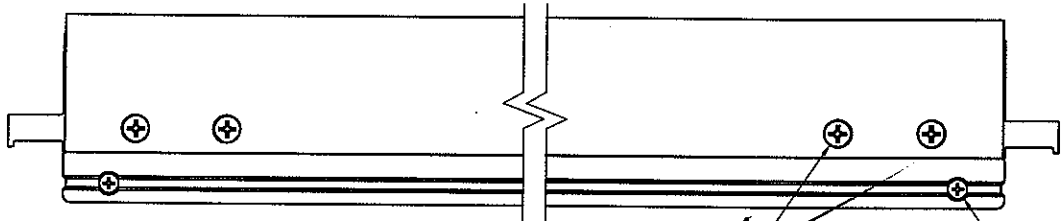
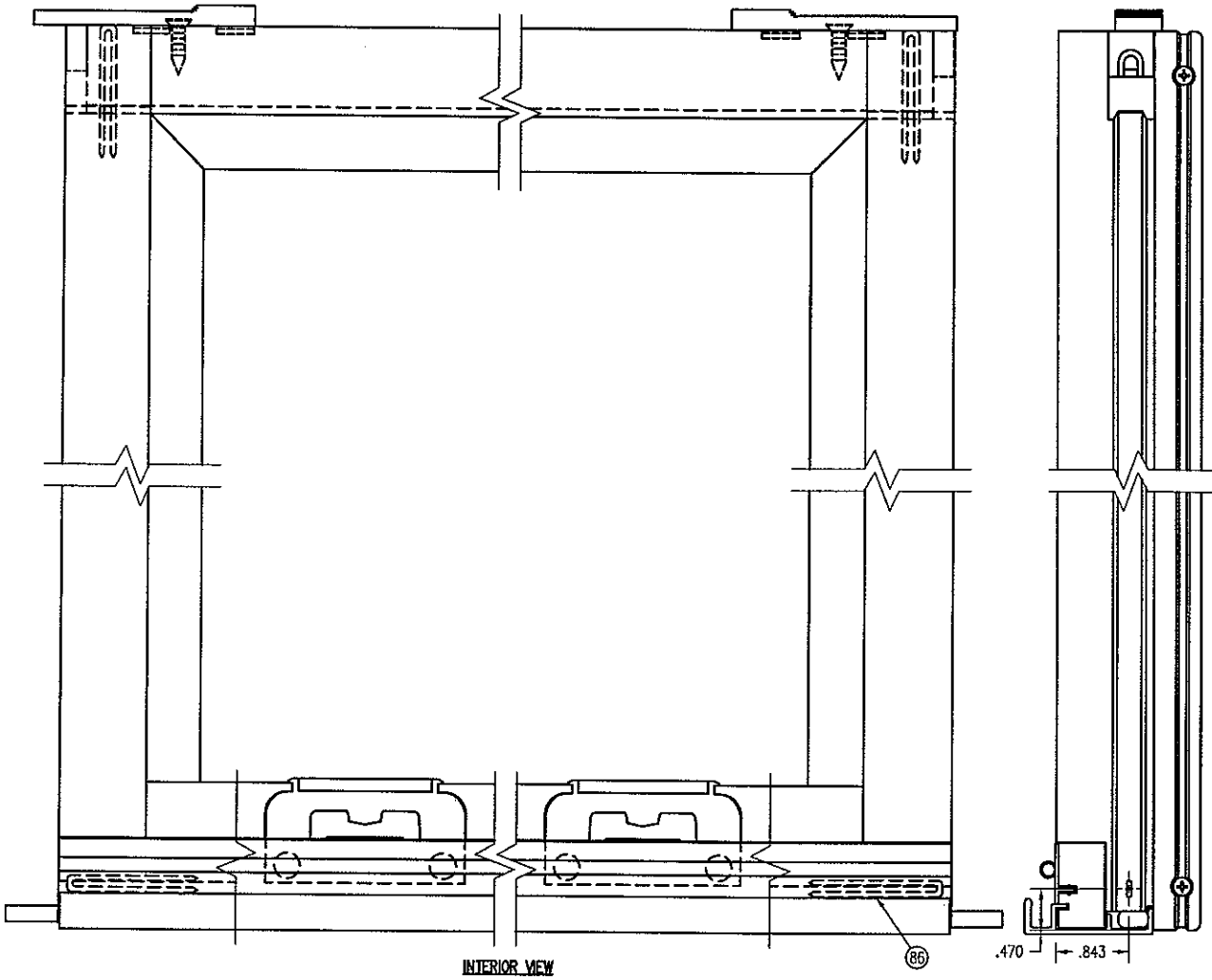
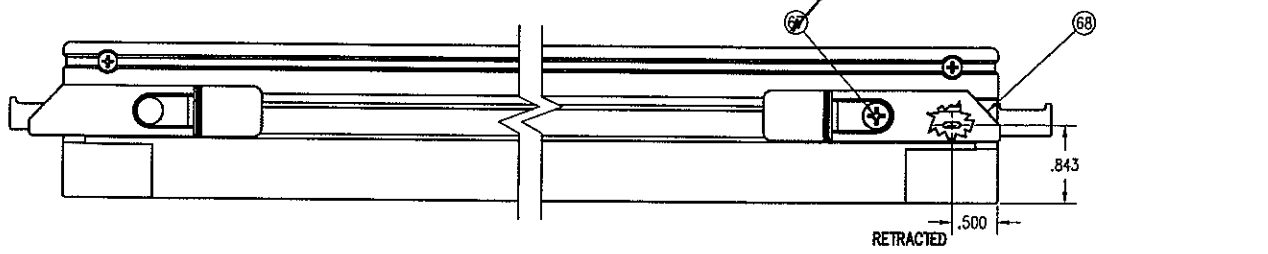
Report# 7319, 73109, 72962

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

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TITLE: CDHV	
UPPER SASH ASSEMBLY	
FINISH:	
MATERIAL:	
DFI: KJS	SCALE: 1=1
DCN: 0881	DRWG: 0534
DATE: 3/19/07	C 05

NO	DESCRIPTION	DFT	DOC	DATE



**Architectural Testing**  
 Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73109, 72962  
 Date 5/29-6/1/07 Tech TG

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 TITLE: CDHV  
 UPPER SASH ASSEMBLY  
 FINISH:  
 MATERIAL:  
 DFT: KJS SCALE: 1=2  
 DCN: 0881 DRWG: 0534  
 DATE: 3/19/07 C 06

NO	DESCRIPTION	DFT	DOC	DATE

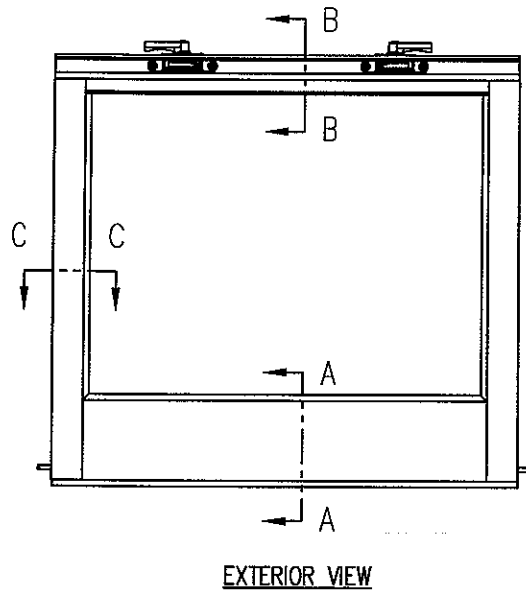
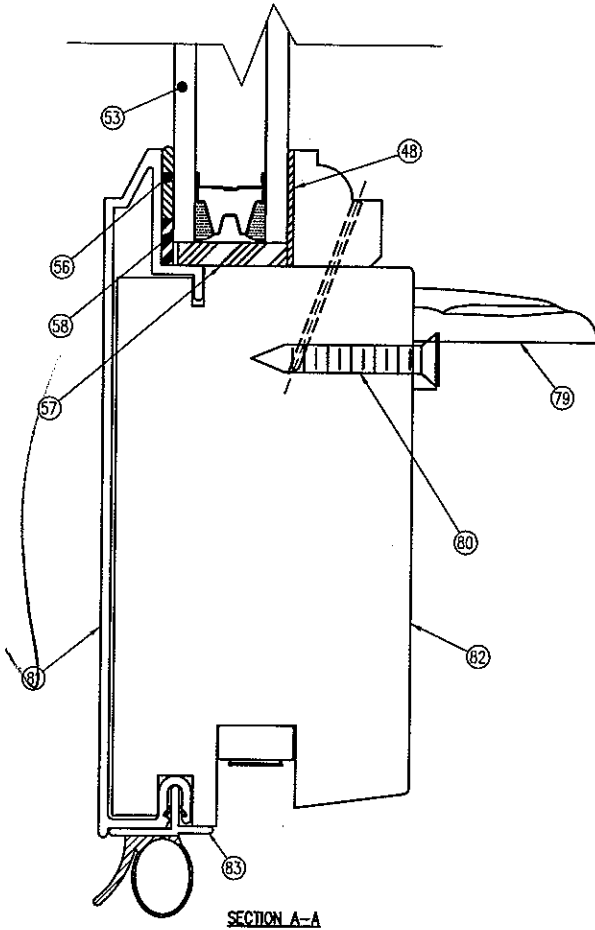
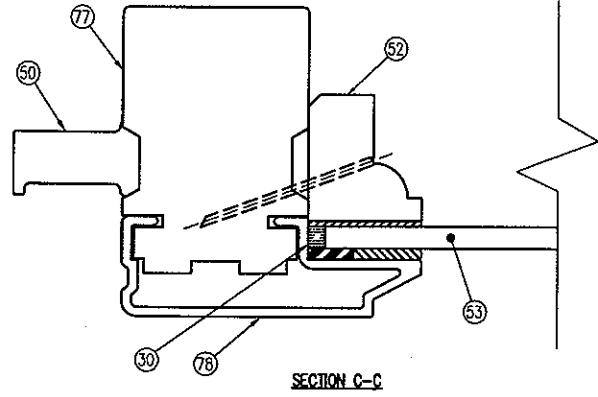
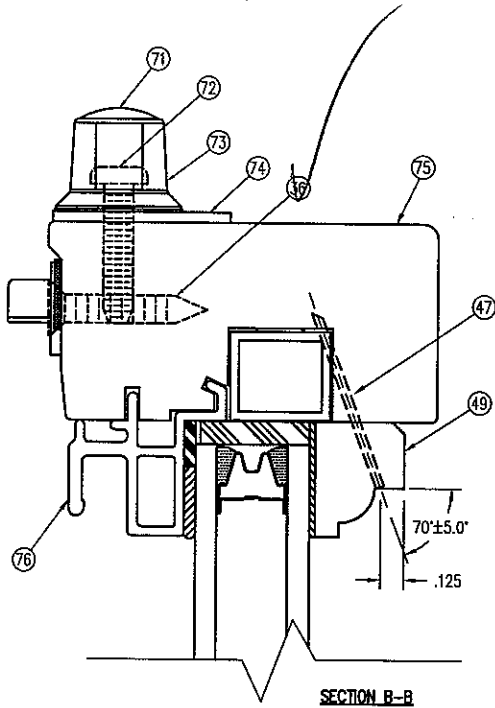


# Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73109, 72962

Date 5/29-6/1/67 Tech TB



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TITLE: CDHV  
LOWER SASH ASSEMBLY

FINISH:

MATL:

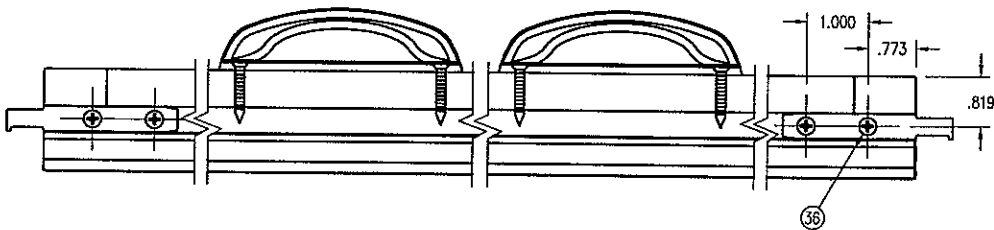
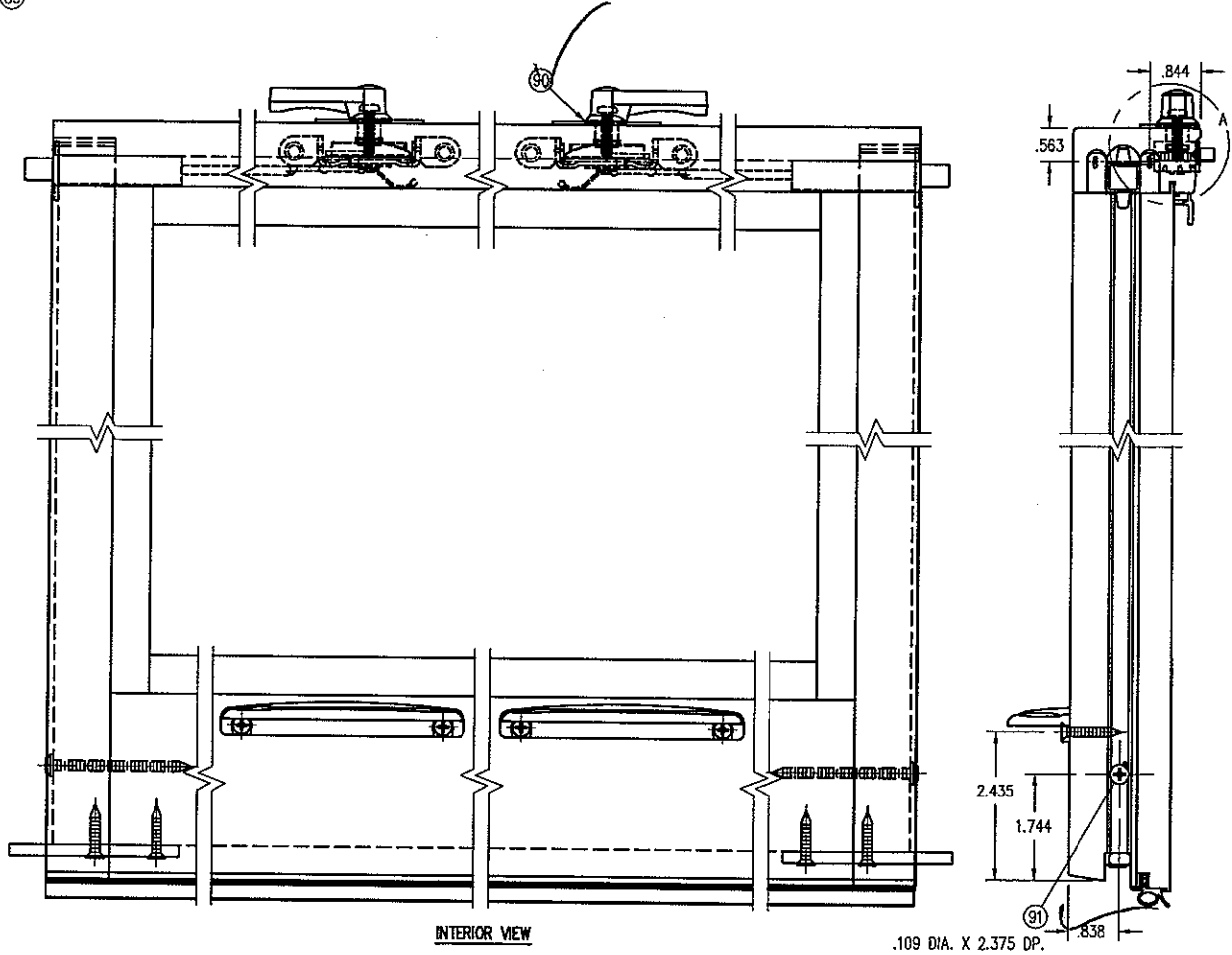
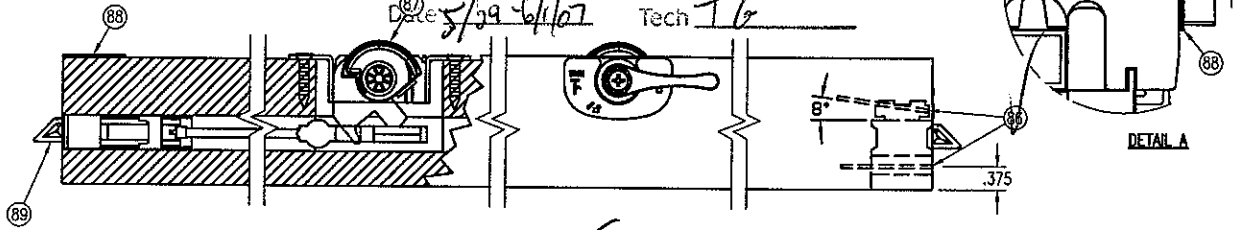
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DCN: 0881 DRWG: 0534

NO	DESCRIPTION	DFT	DOC	DATE
				DATE: 3/19/07 C 07

# Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73109, 72962  
Date 5/09 - 6/10/07 Tech TL



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TITLE:	CDHV
	LOWER SASH ASSEMBLY
FINISH:	
MAIL:	
DFT:	KJS SCALE: 1=3
DCN:	0881 DRWG: 0534
DATE:	3/19/07 C 09

NO	DESCRIPTION	IDFT	DOC	DATE

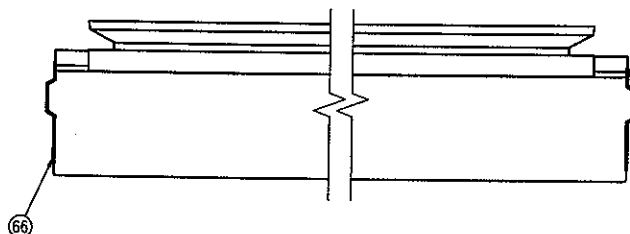
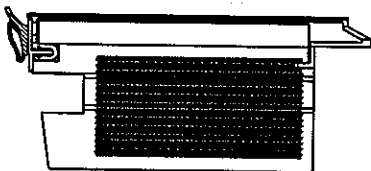
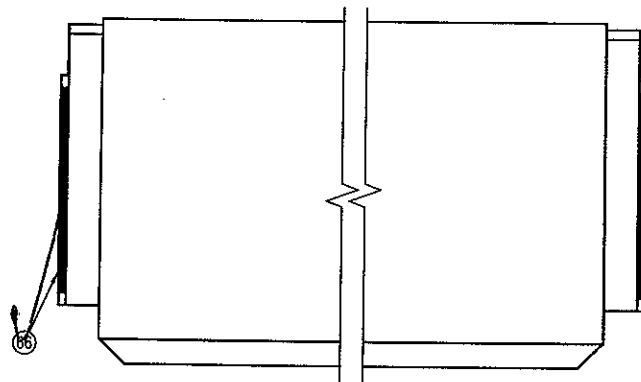
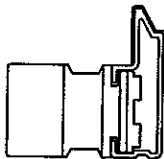
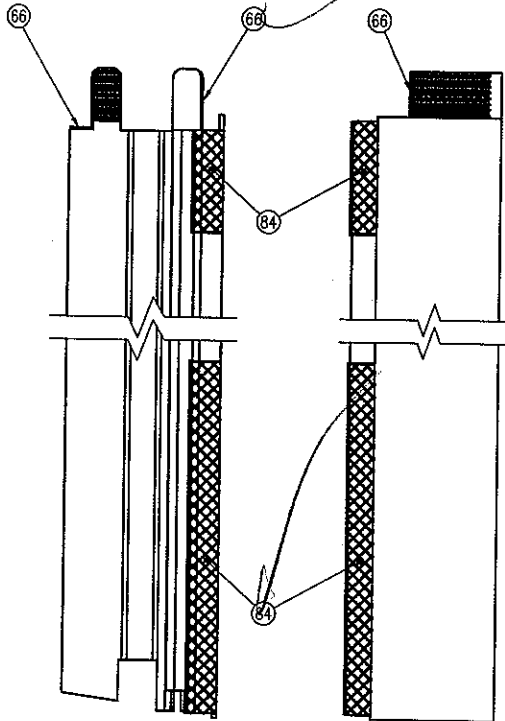
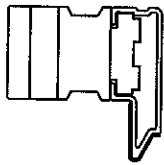


# Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73109, 72962

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



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TITLE: CDHW			
LOWER SASH ASSEMBLY			
FINISH:			
MATERIAL:			
DFT:	KJS	SCALE:	1=2
DCN:	0881	DRWG:	0534
DATE:	3/19/07	C	08

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	A52D	HEAD PAD	2	EPDM	CLIM-A-TECH
4	046W	SCREEN ASSEMBLY (OPT.)	1	ALUMINUM	HOMESHIELD
5	A43G	HEAD WEATHER STRIP	1	URETHANE FOAM	AMESBURY FOAMTITE
6	21YA	FRAME PARTING STOP/HEAD COVER	1	WOOD	EAGLE WINDOW & DOOR
7	212N	VENT INTERIOR HEAD STOP	1	WOOD	EAGLE WINDOW & DOOR
8	A473	HALF SCREEN RETAINER	1	ALUMINUM	BONNELL
9	046X	HALF SCREEN ASSEMBLY (OPT.)	1	ALUMINUM	HOMESHIELD
10	A732	SNUBBER	2	GLASS FILLED NYLON	LCS
11	A74H	SILL WATER DAM	1	VINYL	CLIM-A-TECH
12	A72H	FRAME PLUG	2	NYLON	LCS
13	A571	FRAME SILL COVER	1	ALUMINUM	HYDRO
14	A735	SETTING PAD	2	PVC FOAM	CLIM-A-TECH
15	20F1	THERMAL BLOCK	1	WOOD	EAGLE WINDOW & DOOR
16	20F8	SILL STOP	1	WOOD	EAGLE WINDOW & DOOR
	20FM	SILL STOP - AUX OPTION		WOOD	EAGLE WINDOW & DOOR
17	A00L	3/16" x 1 1/8" STAPLE	AS REQUIRED	GALVANIZED STEEL	ABILITY FASTENERS
18	A514	SIDE FRAME COVER	2	ALUMINUM	HYDRO
19	2134	JAMB	2	WOOD (LVL)	EAGLE WINDOW & DOOR
20	20F6	SIDE INTERIOR STOP	2	WOOD	EAGLE WINDOW & DOOR
21	A28C	5/8" BRAD HEAD FINISH NAIL - 18 GA.	AS REQUIRED	GALVANIZED STEEL	ABILITY FASTENERS
22	20FL	INTERIOR SIDE STOP (MONUMENTAL)	2	WOOD	EAGLE WINDOW & DOOR
23	A71W 01	JAMBLINER	2	VINYL	CLIM-A-TECH
	A71W 02	JAMBLINER (W/ NOTCH) (MONUMENTAL)		VINYL	CLIM-A-TECH
24	A71N	SPRING COVER	2	PVC	CLIM-A-TECH
25	A48Y	PVC SNAP IN UPPER	2	RIGID PVC	CLIM-A-TECH
	A558	WOOD VENEER SNAP IN UPPER (OPT.)		RIGID PVC	CLIM-A-TECH
26	A523	JAMB WEATHERSTRIP UPPER	2	URETHANE FOAM	SCHLEGEL
27	A523	JAMB WEATHERSTRIP LOWER	2	URETHANE FOAM	SCHLEGEL
28	A52F	SASH STOP	2	RIGID PVC	CLIM-A-TECH
29	A522	ALUM. SNAP IN LOWER EXT. (OPT.)	2	ALUMINUM	HOMESHIELD
30	A030	SILICONE SEALANT	AS REQUIRED	SILICONE	DOW CORNING
31	A733	FOAM SILL FILLER	1	CLOSED CELLFOAM	CLIM-A-TECH
32	A43R	LOCK TERMINAL SHOE	2		UNIQUE BALANCE
33	A734	07 CDHV SILL CUSHION	1	CLOSED CELLFOAM	CLIM-A-TECH
34	A54P	INTERLOCK FUZZ PAD	1	FELT ADHESIVE BACK	AMESBURY
35	A72Y	FRAME CLEAT (MONUMENTAL)	1	GLASS FILLED NYLON	LCS
36	A00T	#7 x 7/8" FHWS S.S.	17	STEEL	ABILITY FASTENERS
37	A330	#8 x 1 1/2" FHWS Z&Y	2	STEEL	ABILITY FASTENERS
38	A70K	07 CORNER BLOCK	1		LCS
39	A11K	#6 x 7/16", #8 BODY FHMS S.S.	7	STAINLESS STEEL	ABILITY FASTENERS
40	A11D	7/16" x 1 3/4" 16 GA. STAPLE	6	GALVANIZED STEEL	ABILITY FASTENERS
41	A100	90 CORNER KEY	2	NYLON	LAKE COUNTRY SALES
42	A08W	MDL CORNER KEY	2	ABS COMPOUND	LAKE COUNTRY SALES
43	A02E	#8 x 1 3/4" FH SMS (Z&Y)	4	STEEL	ABILITY FASTENERS
44	A39W	#7 x 1 1/4" FH SMS (S.S.)	2	STEEL	ABILITY FASTENERS
45	A16K	SASH COVER	4	ALUMINUM	HYDRO
46	20F4	UPPER RAIL	1	WOOD	EAGLE WINDOW & DOOR
47	A40E	1" HARDENED STEEL BRAD (18 GA.)	AS REQUIRED	STEEL	ABILITY FASTENERS
48	A67M	.031 x .625 FOAM TAPE (GLASS STOP TAPE)	AS REQUIRED	POLYTHYLENE	ADHESIVE RESEARCH
49	220N	HORZ. COLONIAL GLAZING STOP	4	WOOD	EAGLE WINDOW & DOOR
50	A742	PIVOT PIN (DIE-CAST) "STD. DH"	4	ZAMACK-3	DECO
	A743	PIVOT PIN (S.S.) "MONUMENTAL SH"	4	STAINLESS STEEL	GIESE
51	20F4	UPPER STILE	2	WOOD	EAGLE WINDOW & DOOR
52	220J	VERT. COLONIAL GLAZING STOP	4	WOOD	EAGLE WINDOW & DOOR
53	A08J	5/8" INSULATED GLASS	1	GLASS	CARDINAL IG
	A32Y	SINGLE PANE GLASS (OPT.)		GLASS	CARDINAL IG
54	221H	GLAZING STOP	1	WOOD	EAGLE WINDOW & DOOR
55	A72N	KEEPER	2	ZAMACK-3	ASHLAND
56	A51H	INSTANT GLAZE II SEALANT	AS REQUIRED	POLYURETHANE	DOW CORNING
57	A00E	NEOPRENE GLASS SETTING BLOCK	AS REQUIRED	NEOPRENE RUBBER	CLIM-A-TECH



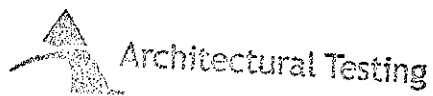
## Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73109, 72962  
Date 5/29-6/1/07 Tech TC

TITLE:	CDHV
	UNIT ASSEMBLY
FINISH:	
MATL:	
DFT:	KJS
DCN:	0881
SCALE:	1=1
DRWG:	0534
DATE:	3/19/07
	C 11

NO.	DWG NO.	DESCRIPTION	QUANTITY	MATERIAL	SUPPLIER
58	A08K	GLAZING SHIM .250 x .065 x 4.000	AS REQUIRED	NEOPRENE RUBBER	CLIM-A-TECH
59	A01A	.094 x .265 BUTYL TAPE	AS REQUIRED	BUTYL RUBBER	PTI INC.
60	A627	FOAM END PLUG	2	POLYETHYLENE	CLIM-A-TECH
61	A04T	#8 x 1/2" PH TEKS SCREW	AS REQUIRED	STEEL	ABILITY FASTENERS
62	20F2	UPPER CHECK RAIL	1	WOOD	EAGLE WINDOW & DOOR
63	A72W	CHECK RAIL COVER (UPPER)	1	ALUMINUM	HYDRO
64	A72T	WEATHER STRIP	1	VINYL	CLIM-A-TECH
65	A172	SASH CORNER KEY	4	NYLON	LAKE COUNTRY SALES
66	A01D	TYPE 1 BOND WOOD ADHESIVE	AS REQUIRED	COPOLYMER	NATIONAL STARCH
67	A00R	#7 x 5/8" FHSMS	2	STAINLESS STEEL	ABILITY FASTENERS
68	A72R	SURFACE TILT-LATCH	2	NYLON	HILL DESIGN
69					
70	A19H	#4 x 1/2" FHSMS	8	STAINLESS STEEL	ABILITY FASTENERS
71	A54J	DH HANDLE SCREW HOLE PLUG	2	NYLON	ASHLAND HARDWARE
72	A54L	#8-32 x 7/8" PPHMS, TRI-OBIAL	2	STEEL	ASHLAND HARDWARE
73	A54G	E-TILT DH LOCK HANDLE	2	ZAMACK-3	ASHLAND HARDWARE
74	A54H	E-TILT DH BEZEL PLATE	2	ZAMACK-3	ASHLAND HARDWARE
75	20F5	LOWER CHECK RAIL	1	WOOD	EAGLE WINDOW & DOOR
76	A72X	CHECK RAIL COVER (LOWER)	1	ALUMINUM	HYDRO
77	20F4	LOWER STILE	2	WOOD	EAGLE WINDOW & DOOR
78	A741	LOWER STILE COVER	2	ALUMINUM	HYDRO
79	A63A	FINGER LIFT	AS REQUIRED	ZAMACK-3	ASHLAND HARDWARE
80	A03Y	#6 x 1 FHSMS Z&Y (PAINTED HEAD)	AS REQUIRED	STEEL	ABILITY FASTENERS
81	A71X	LOWER RAIL COVER	1	ALUMINUM	HYDRO
82	20E8	LOWER RAIL	1	WOOD	EAGLE WINDOW & DOOR
83	A72G	LOWER SASH WEATHER STRIP	1		CLIM-A-TECH
84	A737	.031 x 1.125 SEALANT (BUTYL TAPE)	3	BUTYL RUBBER	DEVAN SEALANTS
85	A54N	#6 x 1 1/4" FHWS TEKS POINT S.S.	4	STAINLESS STEEL	ABILITY FASTENERS
86	A131	3/16 x 1 1/2 STAPLE (STD. DH)	6	GALVANIZED STEEL	ABILITY FASTENERS
87	A54F	E-TILT DOUBLE HUNG LOCK	2		ASHLAND HARDWARE
88	A67G	LOWER SASH PAD	2		CLIM-A-TECH
89	A72P	TILT-LATCH ARM	2	PVC	ASHLAND HARDWARE
90	A54D	SPRING WASHER	2	STAINLESS STEEL	ASHLAND HARDWARE
91	A48C	#8 x 2 1/4" COMBO ROUND WASHER HEAD	2	STEEL	ABILITY FASTENERS
92	H-40	5/8" BETWEEN GLASS MUNTIN	AS REQUIRED	ALUMINUM	ALLMETAL
93	P/PD	1" CONTOUR MUNTIN	AS REQUIRED	ALUMINUM	ALLMETAL
94	220H	1 1/2" INTERIOR COLONIAL MDL BAR	AS REQUIRED	WOOD	EAGLE WINDOW & DOOR
95	H-40	SPACER CHANNEL	AS REQUIRED	ALUMINUM	ALLMETAL
96	A507	1 1/2" EXTERIOR MDL BAR	AS REQUIRED	ALUMINUM	HYDRO
97	A67X	1 1/2" MDL ADHESIVE TAPE (EXTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
98	A67L	1 1/2" MDL ADHESIVE TAPE (INTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
99	220H	1 1/8" INTERIOR COLONIAL MDL BAR	AS REQUIRED	WOOD	EAGLE WINDOW & DOOR
100	H-40	SPACER CHANNEL	AS REQUIRED	ALUMINUM	ALLMETAL
101	A507	1 1/8" EXTERIOR MDL BAR	AS REQUIRED	ALUMINUM	HYDRO
102	A67W	1 1/8" MDL ADHESIVE TAPE (EXTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
103	A67R	1 1/8" MDL ADHESIVE TAPE (INTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
104	220H	7/8" INTERIOR COLONIAL MDL BAR	AS REQUIRED	WOOD	EAGLE WINDOW & DOOR
105	H-40	SPACER CHANNEL	AS REQUIRED	ALUMINUM	ALLMETAL
106	A507	7/8" EXTERIOR MDL BAR	AS REQUIRED	ALUMINUM	HYDRO
107	A67T	7/8" MDL ADHESIVE TAPE (EXTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
108	A67N	7/8" MDL ADHESIVE TAPE (INTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
109	20FA	5/8" INTERIOR COLONIAL MDL BAR	AS REQUIRED	WOOD	EAGLE WINDOW & DOOR
110	H-40	SPACER CHANNEL	AS REQUIRED	ALUMINUM	ALLMETAL
111	A72D	5/8" EXTERIOR MDL BAR	AS REQUIRED	ALUMINUM	HYDRO
112	A75N	5/8" MDL ADHESIVE TAPE (EXTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
113	A75M	5/8" MDL ADHESIVE TAPE (INTERIOR TAPE)	AS REQUIRED	POLYETHYLENE	ADHESIVE RESEARCH
114	N/A	ADHESIVE FOAM TAPE	AS REQUIRED	POLYETHYLENE	CARDINAL



Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73109, 72962  
Date 5/29/10 Tech 16

TITLE:	CDHV
	UNIT ASSEMBLY
FINISH:	
MATL:	
DFT:	KJS
DCN:	0881
SCALE:	1=1
DRWG:	0534
DATE:	3/19/07
	C 12

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

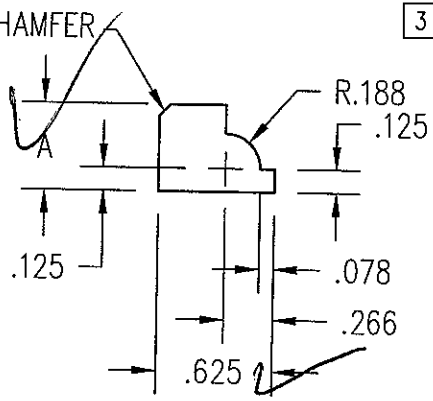


Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73109, 72962  
Date 5/29-6/1/07 Tech TB

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



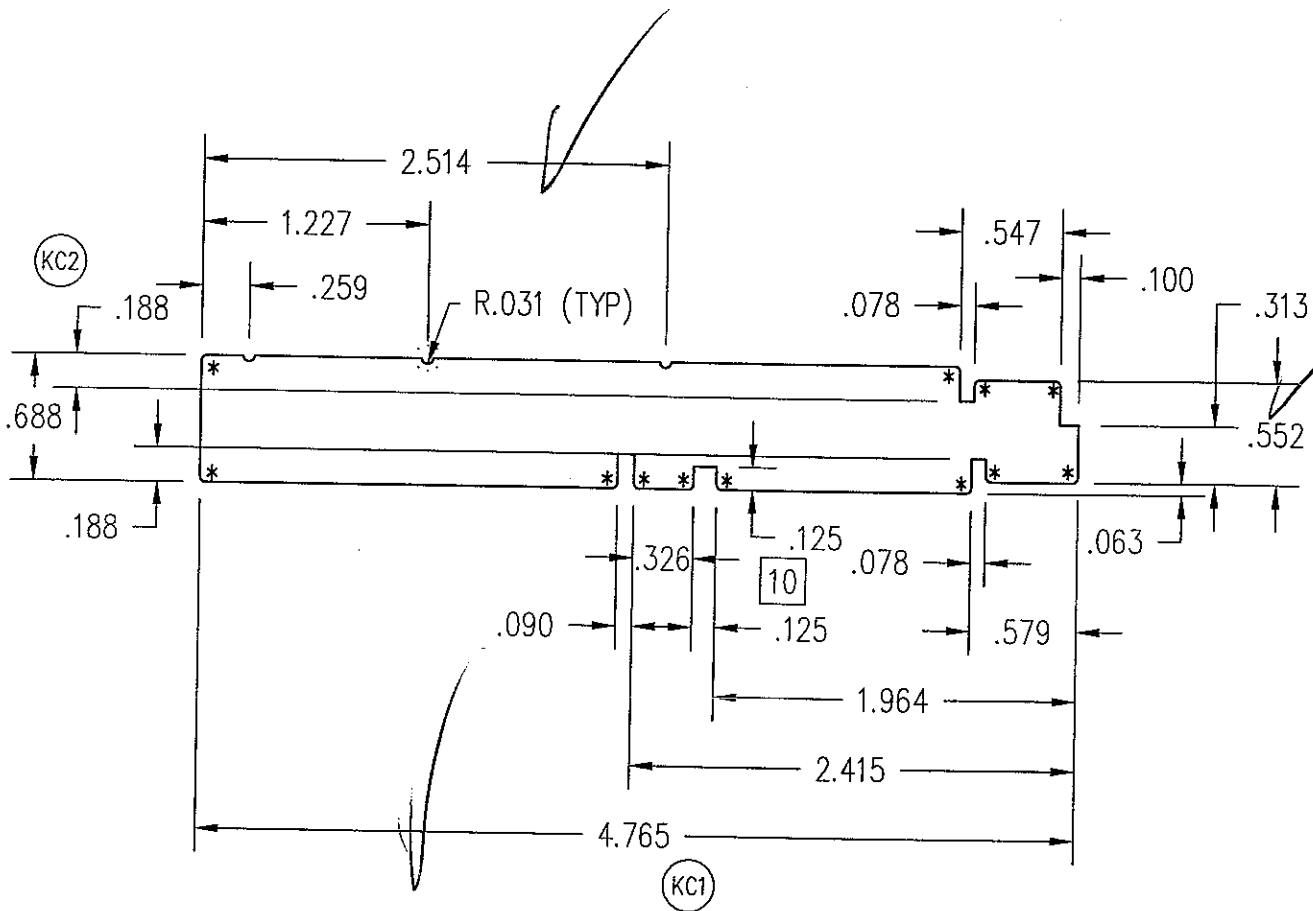
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TITLE: COLONIAL GLAZING STOP

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.  $\pm 0.005$ ; 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# 73119, 73109, 72962  
 Date 5/29-6/1/07 Tech TG

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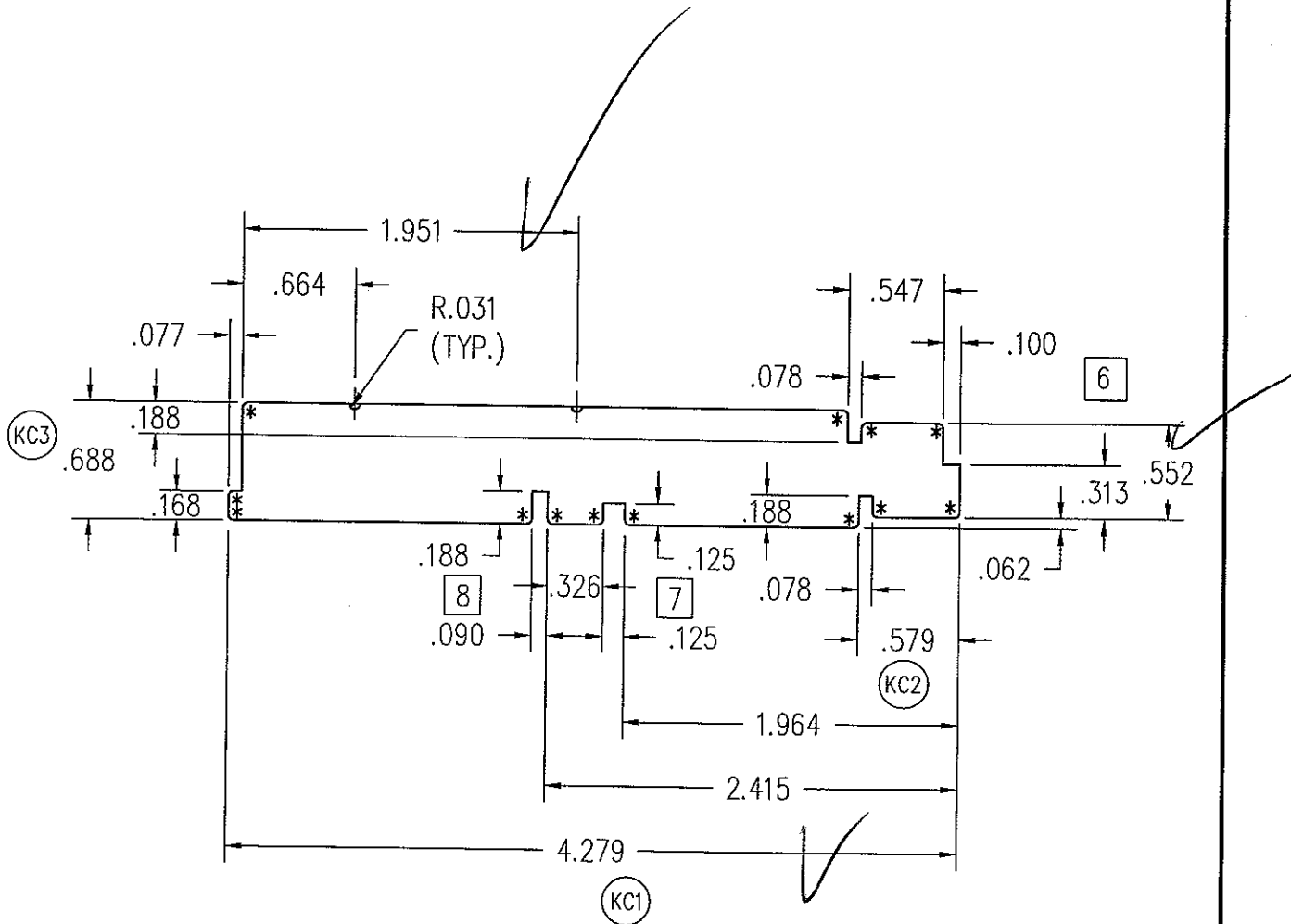
TITLE: CDHV/CDHVT/CSW - HEAD  
 CDHF - HEAD/SIDE JAMB

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.  $\pm 0.005$ ; 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# 73119, 73109, 72962  
 Date 5/29-6/1/07 Tech TG



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TITLE: CDHV/CDHVET/CSW  
 SIDE JAMB

FINISH:

MATL: SEE PAGE 02

DFT: GDE SCALE: 1=1

DCN: 0073 DRWG: 2134

DATE: 3/2/1993 A 01 OF 02

08	ADD 2ND KEFT TO MATCH #21E9	TWN	0768	1/30/2003
07	ADDED KERF FOR E-TILT	AWW	0589	5/26/2002
06	CHNG'D PROFILE	AWW	0580	8/3/2001
05	ADD RADIUS TO CORNERS	SCT	0292	5/1/1998
04	CHG'D DESCRIPTION	CEL	0247	5/5/1997
NO	DESCRIPTION	DFT	DOC	DATE

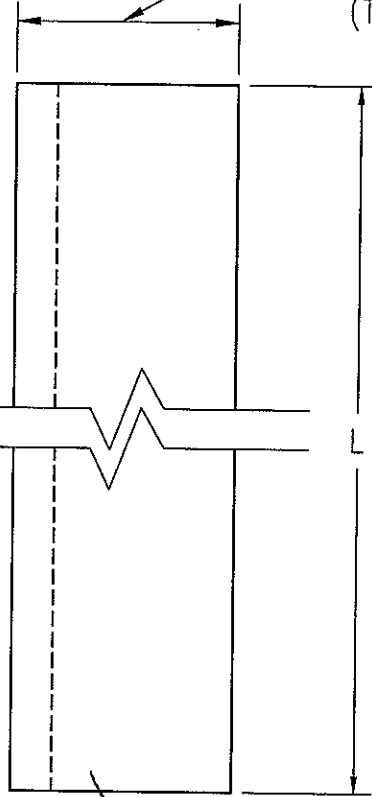
- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. L = FRAME WIDTH -  $1 \frac{3}{8}$ .

Architectural Testing

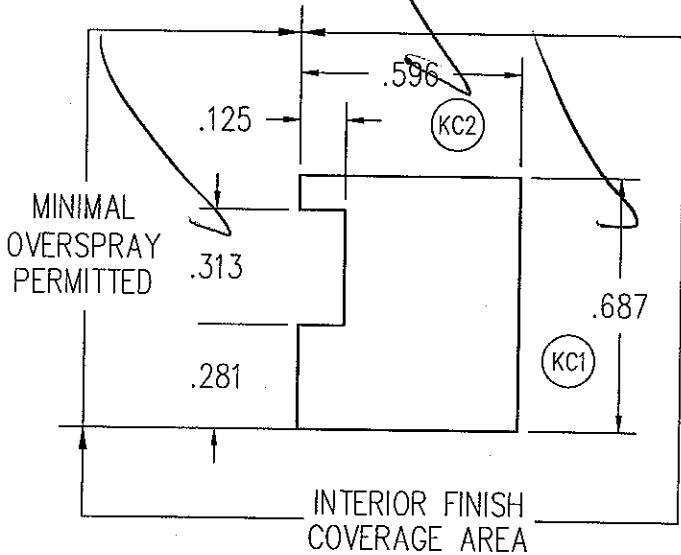
Test sample complies with these details. Deviations are noted.

Reports 73119, 73109, 72962  
 Date 5/29-6/1/67 Tech JG

MINIMAL OVERSPRAY PERMITTED (TYP BOTH ENDS)



DOUBLE HUNG	
FRAME WIDTH	L
20	18 5/8
24	22 5/8
28	26 5/8
30	28 5/8
32	30 5/8
36	34 5/8
40	38 5/8
44	42 5/8
48	46 5/8
60	58 5/8



CSW / WSW	
FRAME WIDTH	L
36	34 5/8
48	46 5/8
60	58 5/8
72	70 5/8
96	94 5/8

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TITLE: CDHV, WDHV, CSW, WSW HEAD INTERIOR STOP

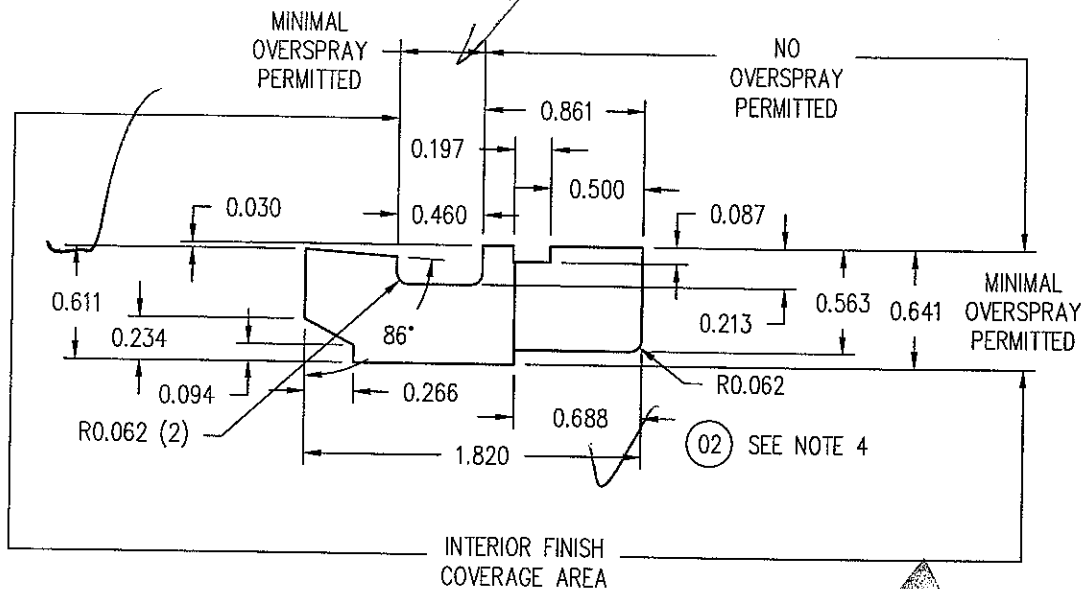
FINISH:

MATL: CLEAR PINE

DFT: GDE SCALE: 2=1

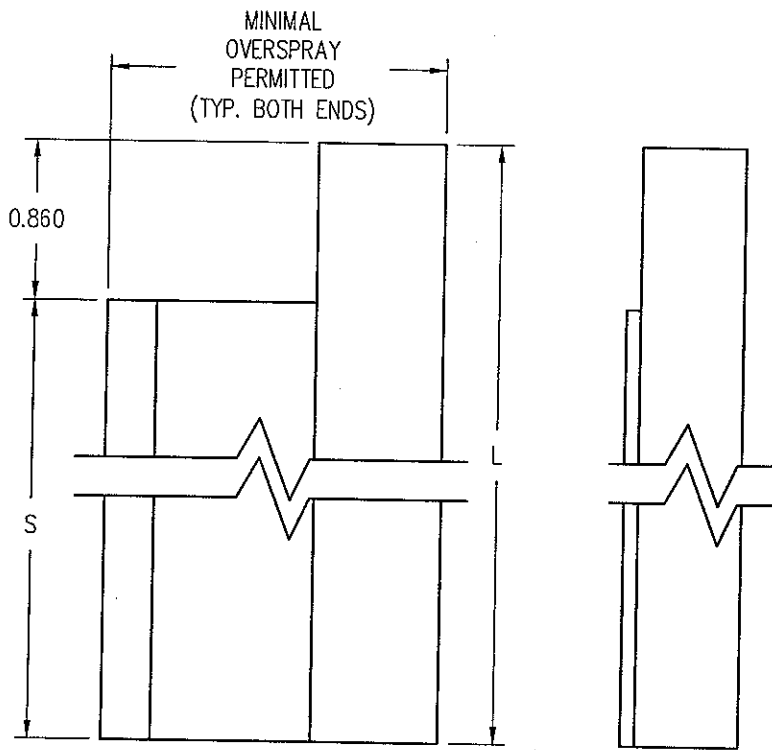
06	CHG'D PROFILE	JH	0840	B/15/2003	DCN: 0073	DRWG: 212N
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 3/25/1993	A 01 OF 01

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 L = FRAME HEIGHT - 2 11/16".  
 3 LEFT & RIGHTS REQUIRED, LEFT HAND SHOWN (AS VIEWED FROM EXT.)  
 4 HOLD 0.750 AT TENON BEFORE MOULDING



Architectural Testing

Test sample complies with these details.  
 Deviations are noted.  
 Reports# 73119, 73109, 72962  
 Date 5/22-9/1/02 Tech 16



FRAME HEIGHT	L	S
36	33 5/16	32 7/16
40	37 5/16	36 7/16
48	45 5/16	44 7/16
54	51 5/16	50 7/16
60	57 5/16	56 7/16
66	63 5/16	62 7/16
72	69 5/16	68 7/16
78	75 5/16	74 7/16
84	81 5/16	80 7/16
90	87 5/16	86 7/16

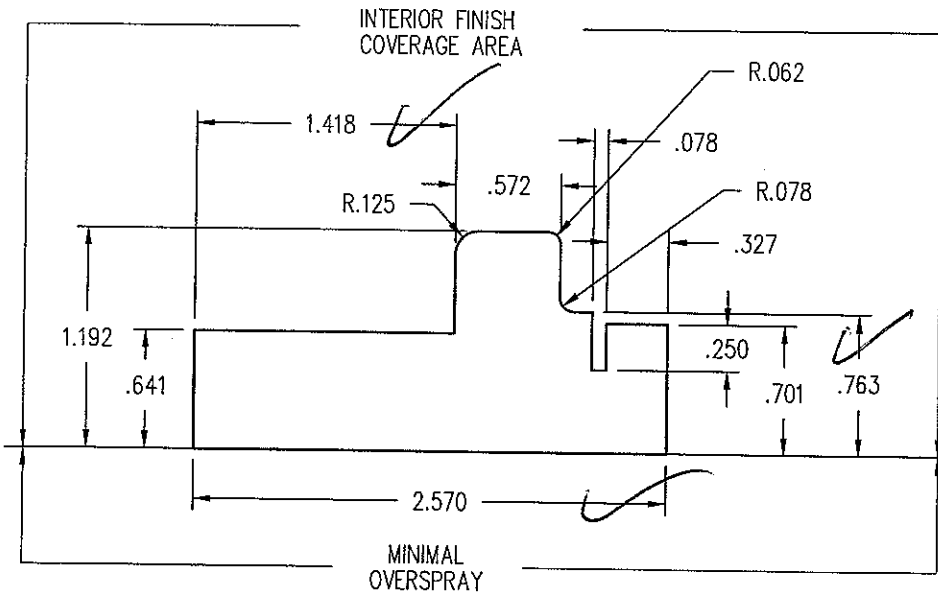
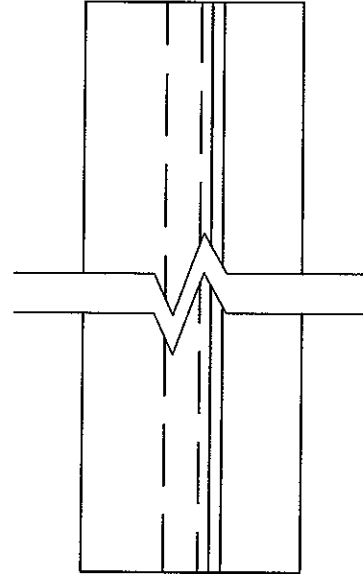
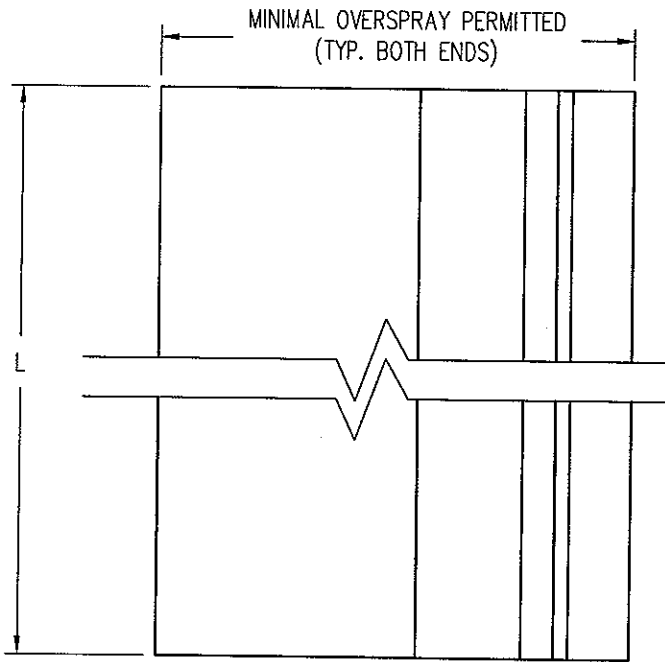
02	ADDED NOTE #4	JH	0893	06/17/2004	
01	ADD FILLET	PJB	0723	10/08/2002	
NO	Description of Change	Drafter	DCN#	Date	
Title:	CDHVET/WDHVET SIDE INTERIOR STOP	Finish:	INT FINISH SEE A02F	Material	CLEAR PINE
Scale:	1"=1"	Date:	1/18/2002	REVISION:	21Y9
Drafter:	AWW	DCN#	0723	2	01 of 01
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Note: 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. L = FRAME WIDTH - 3 21/32".



Test sample complies with these details.  
 Deviations are noted.

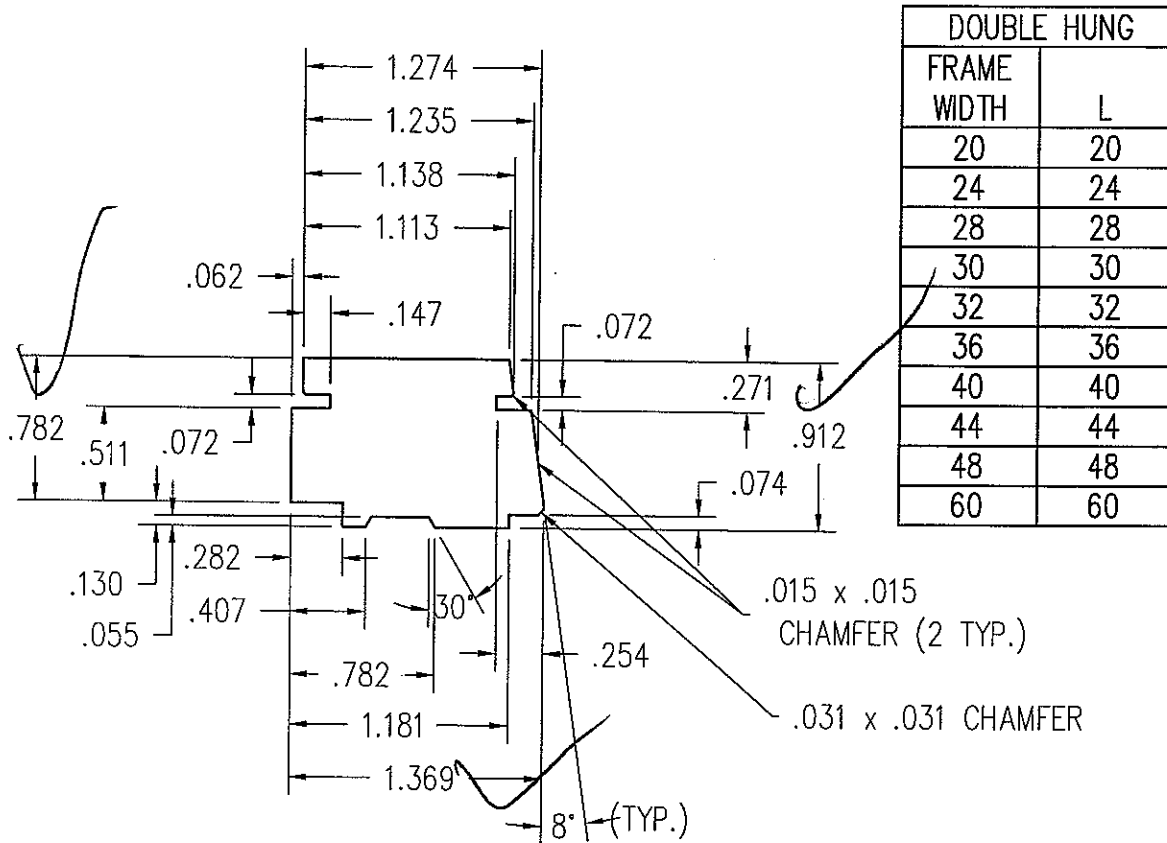
Report# 73109, 73109, 72962  
 Date 5/22-6/1/07 Tech TG



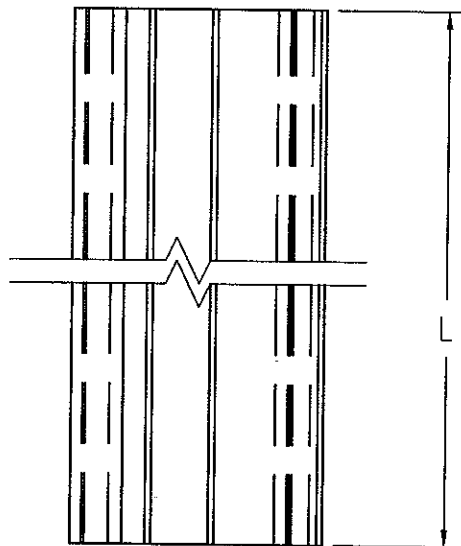
FRAME WIDTH	L
20	16 11/32
24	20 11/32
28	24 11/32
30	26 11/32
32	28 11/32
36	32 11/32
40	36 11/32
44	40 11/32
48	44 11/32
60	56 11/32

03	CHANGED PROFILE SIZE	TWN	0881	3/30/07
02	CHANGED SCALE	KJS	BOM	05/02/06
01	ADDED FINISH TO TITLE BLOCK	JH	0893	06/17/04
NO	Description of Change	Drafter	DCN#	Date
Title: CDHV/WDHV HEAD PARTING STOP		Finish: PRESERVATIVE	Material CLEAR PINE	
Scale: 1"=1"	Date: 1/18/2002	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: AWW	DCN# 0589			

NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; 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



Architectural Testing

Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73109, 72962  
 Date 5/29-6/16/07 Tech TG

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TITLE: '07 DOUBLE HUNG  
 THERMAL BLOCK

FINISH: PRESERVATIVE

MATL: EDGE GLUED AND  
 FINGER JOINTED PINE

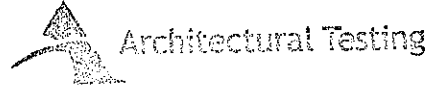
DFT: tries SCALE: 1=1

DCN: 0881 DRWG: 20F1

DATE: 9/28/2006 A 01 OF 01

01	UPDATED PROFILE	KJS	0881	1/4/07
NO	DESCRIPTION	DFT	DOC	DATE

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

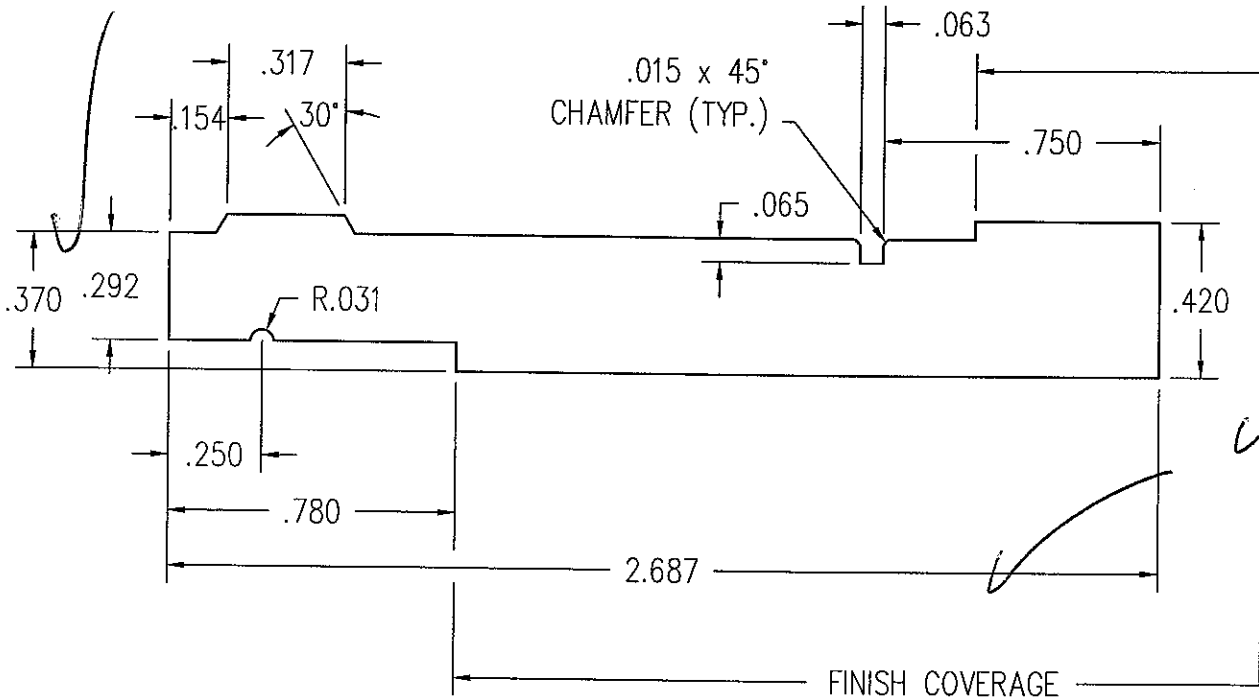


Architectural Testing

Test sample complies with these details.  
Deviations as noted.

Report# 73119, 73101, 70962

Date \_\_\_\_\_ Tech \_\_\_\_\_



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TITLE: '07 SILL STOP

FINISH:

MATL: CLEAR PINE

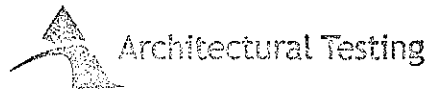
DFT: tnies SCALE: 2=1

DCN: 0881 DRWG: 20F8

DATE: 12/12/2006 A 01 OF 02

NO	DESCRIPTION	DFT	DOC	DATE

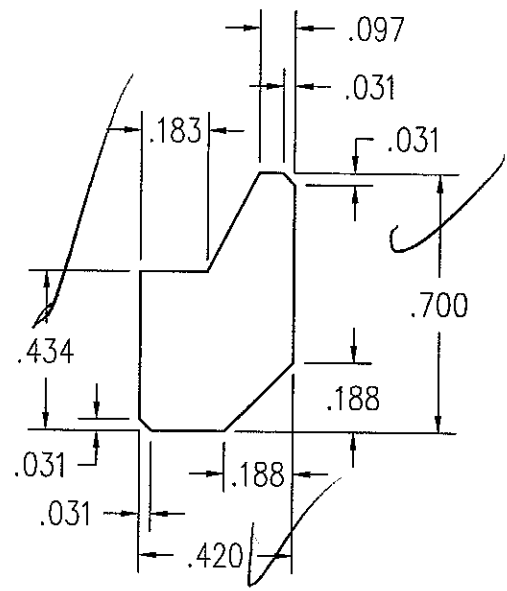
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. L = AFH - 4.344.



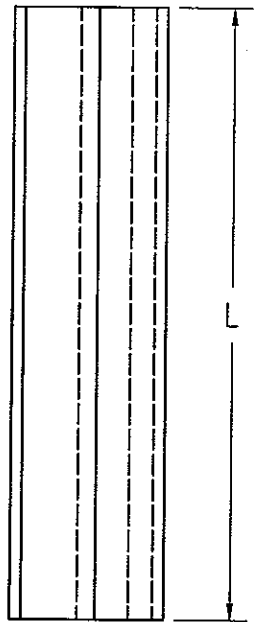
Architectural Testing

Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73109, 72962  
 Date 5/29-6/1/07 Tech T6



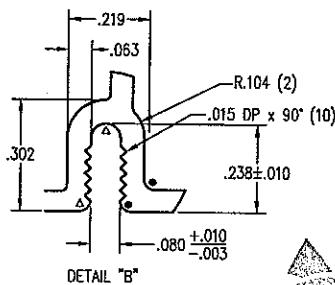
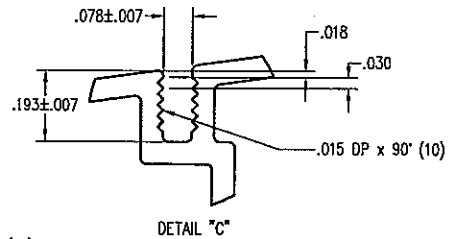
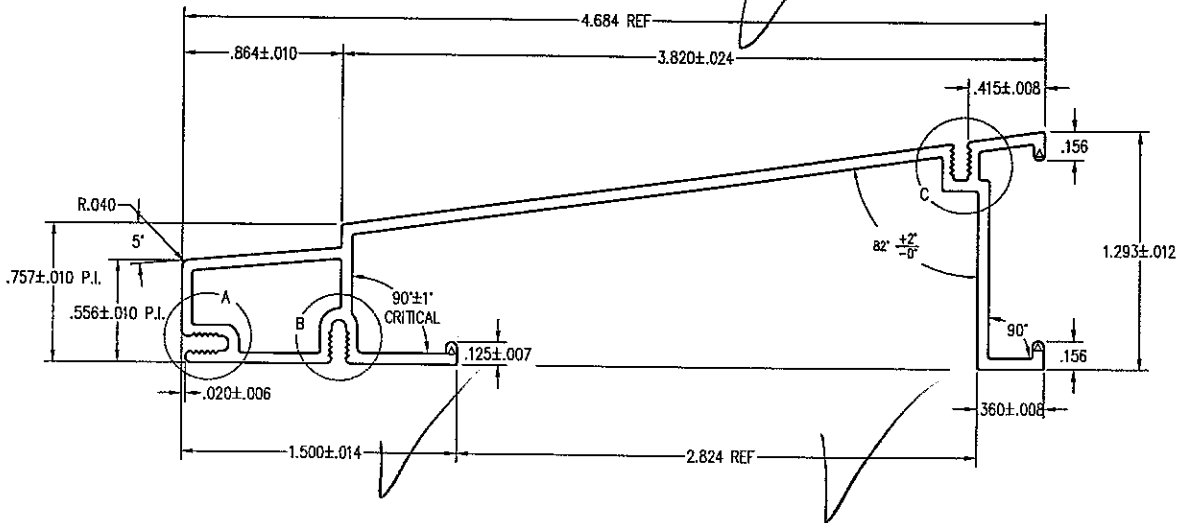
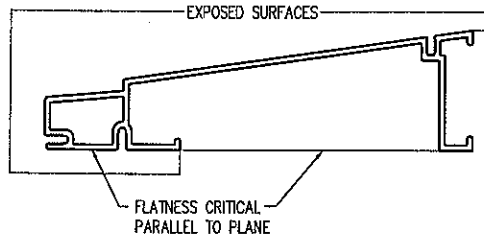
FRAME HEIGHT	L
72	67.656
78	73.656
84	79.656
90	85.656
96	91.656
102	97.656
108	103.656
114	109.656
120	115.656



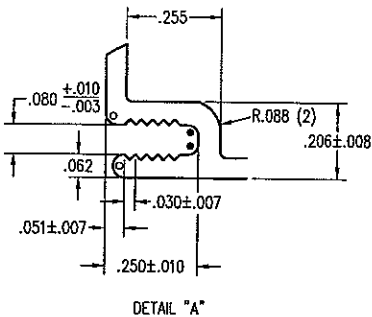
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TITLE: '07 CSHMV - INTERIOR SIDE STOP	
FINISH:	
MATL: CLEAR PINE	
DFT: tnies	SCALE: 2=1
DCN: 0881	DRWG: 20FL
DATE: 2/2/2007	A 01 OF 01

NO	DESCRIPTION	DFT	DOC	DATE
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- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. UNLESS OTHERWISE SPECIFIED, WALL THICKNESS IS  $.080$ .  
 3. UNLESS OTHERWISE SPECIFIED BREAK ALL CORNERS  $.015$  RADIUS.  
 4. AREA =  $.572$  SQIN  
 5. MILL PART NO. = # M5746 ,  
 6. BON-L # EWD-285



- R .028 (6)
- R .031 (2)
- × R .062 (0)
- △ FULL RAD.(4)



Architectural Testing

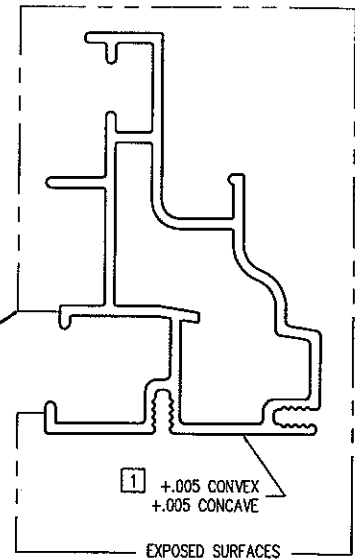
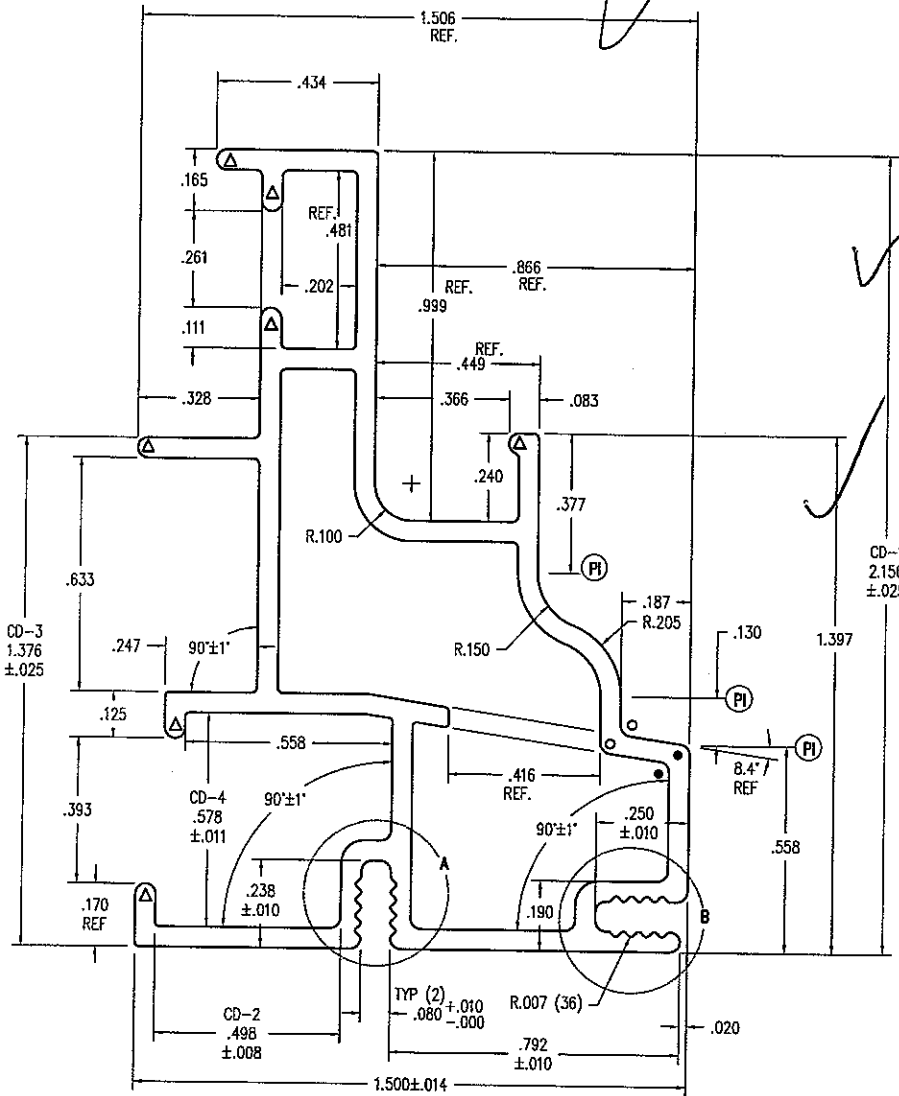
Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73109, 72962  
 Date 5/29-6/1/07 Tech TG

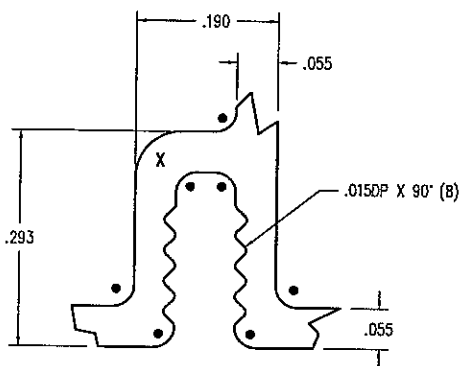
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TITLE: CDHF/CDHF/CSW SILL COVER (HOLLOW NOSE)	
FINISH: EAGLE'S STD. COLORS	
MATERIAL: 6063 T-6 ALUMINUM	
OFF: RJB	SCALE: 1=1
DCN: 0734	DRWG: A571
DATE: 7/23/2002	C 01 OF 02

NO	DESCRIPTION	DFT	DOC	DATE

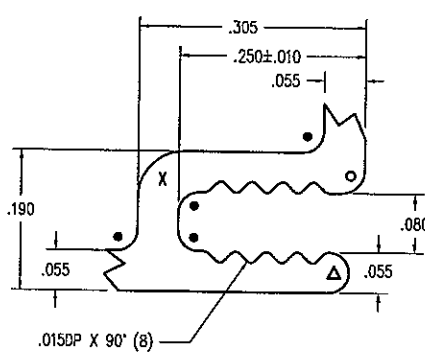
- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. UNLESS OTHERWISE SPECIFIED, WALL THICKNESS IS  $.055$ .  
 3. UNLESS OTHERWISE SPECIFIED, BREAK ALL CORNERS  $.010$  RADIUS.  
 4. AREA =  $.463$  SQ. IN.  
 5. MILL PART NO. = #M5740



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



DETAIL "A"



DETAIL "B"

Architectural Testing

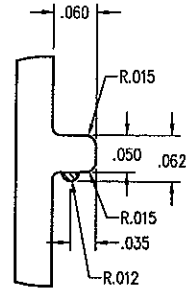
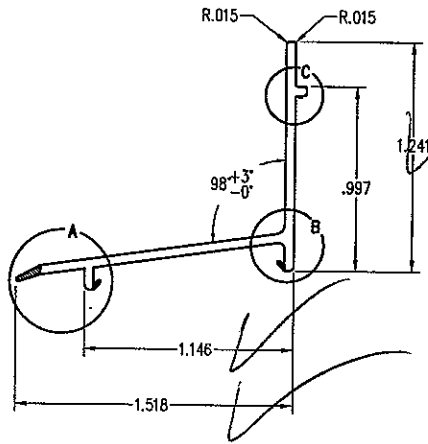
Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73109, 72963  
 Date 5/29-6/16/07 Tech 1/2

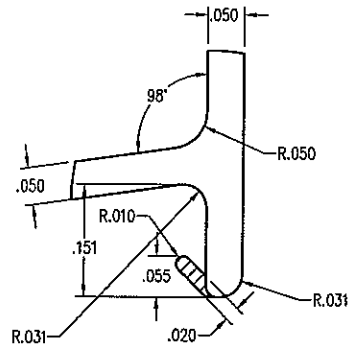
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TITLE:	GDH/CBH/CSW
FINISH:	EAGLE'S STD. COLORS
MATL:	6063 T-6 ALUMINUM

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

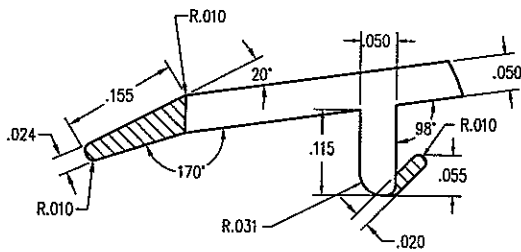
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC. ±.005; FRAC. ±1/64; ANGLES ±1/2°.  
 2. TYPICAL RIGID WALL THICKNESS; .050.  
 3. TYPICAL FLEXIBLE WALL THICKNESS; .020.



DETAIL C  
SCALE X 4



DETAIL B  
SCALE X 4



DETAIL A  
SCALE X 4



Architectural Testing

Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73109, 72962  
 Date 5/29-6/1/07 Tech TG

TOLERANCES (UNLESS NOTED)	
.000 - .125	±.010
.125 - .500	±.015
.500 - 2.00	±.020
2.00 - 4.00	±.030
4.00 - 5.00	±.040
WALLS	±.005
ANGLES	±3°

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TITLE: 07 SILL WATER DAM	
FINISH:	
MATERIAL: BEIGE VINYL	
DFT: ksmith	SCALE: 1=1
DCN: 0881	DRWG: A74H
DATE: 2/26/2007	C 01 OF 02

NO	DESCRIPTION	DFT	DOC	DATE

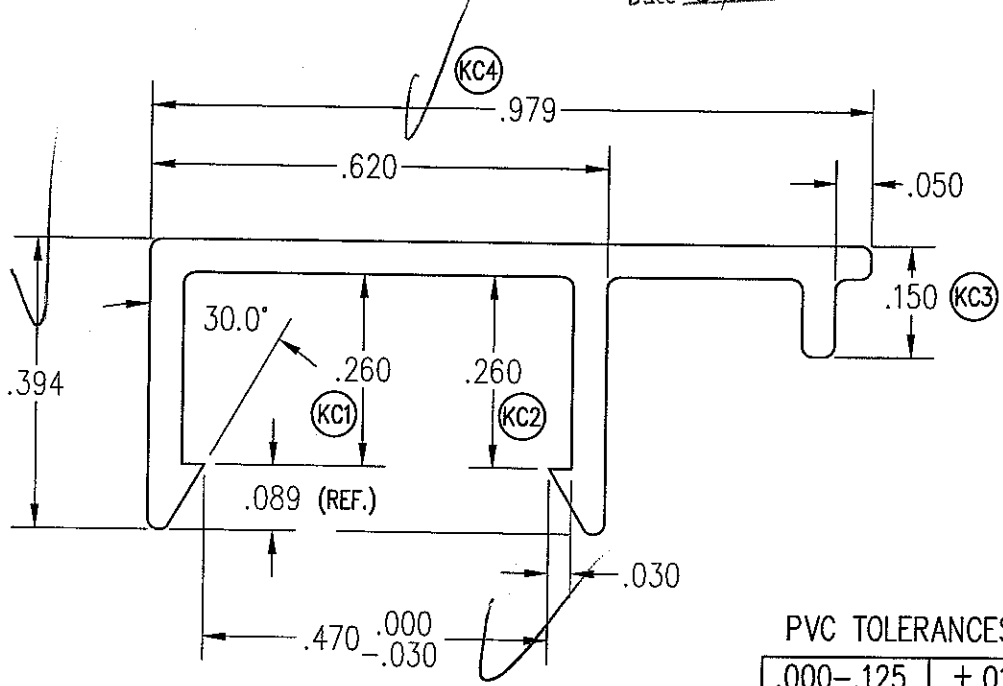


- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .
2. WALL THICKNESS = .045.
3. AREA = .0808 SQ. IN.
4. ALL RADII = .015.



Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73109 72962  
Date 5/29-6/1/07 Tech FB



PVC TOLERANCES

.000-.125	$\pm 0.010$
.125-.500	$\pm 0.015$
.500-2.00	$\pm 0.020$
2.00-4.00	$\pm 0.030$
4.00-5.00	$\pm 0.040$
WALLS	$\pm 0.005$
ANGLES	$\pm 3^\circ$

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TITLE: CDHV/WDHV  
PVC JAMBLINER COVER

FINISH: BEIGE, WHITE

MATL: RIGID PVC

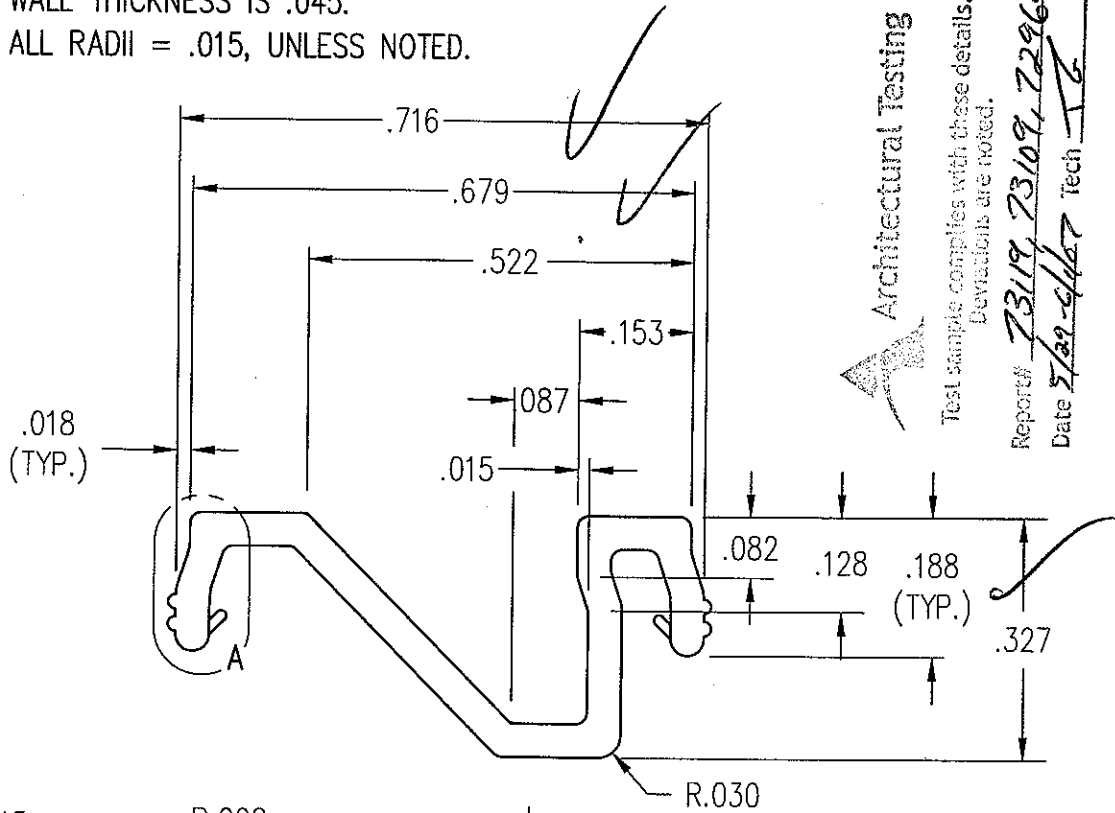
DFT: PJB SCALE: 4=1

DCN: 0589 DRWG: A48Y

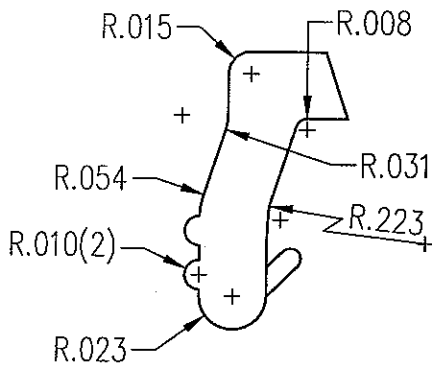
DATE: 6/21/2001 A 01 OF 03

01	ADDED CRITICAL DIM & TOL. BLK.	PJB	PRE	6/4/2002
NO	DESCRIPTION	DFT	DOC	DATE

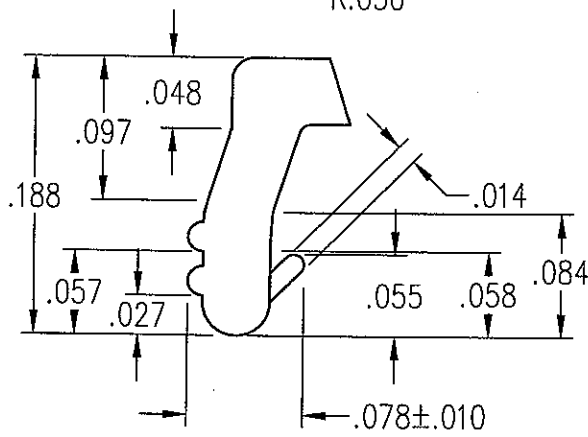
- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .
2. WALL THICKNESS IS .045.
3. ALL RADII = .015, UNLESS NOTED.



Architectural Testing  
 Test sample complies with these details.  
 Deviations are noted.  
 Report# 73119, 73109, 72962  
 Date 5/29-9/67 Tech JG



DETAIL "A" -- RADII



DETAIL "A"

PVC TOLERANCES

.000-.125	$\pm 0.010$
.125-.500	$\pm 0.015$
.500-2.00	$\pm 0.020$
2.00-4.00	$\pm 0.030$
4.00-5.00	$\pm 0.040$
WALLS	$\pm 0.005$
ANGLES	$\pm 3^\circ$

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TITLE: '07 CDHV  
 SPRING COVER

FINISH: BEIGE, WHITE

MATL: PVC

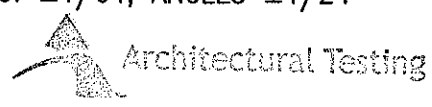
DFT: ksmith SCALE: 4=1

DCN: 0881 DRWG: A71N

DATE: 1/29/2007 A 01 OF 02

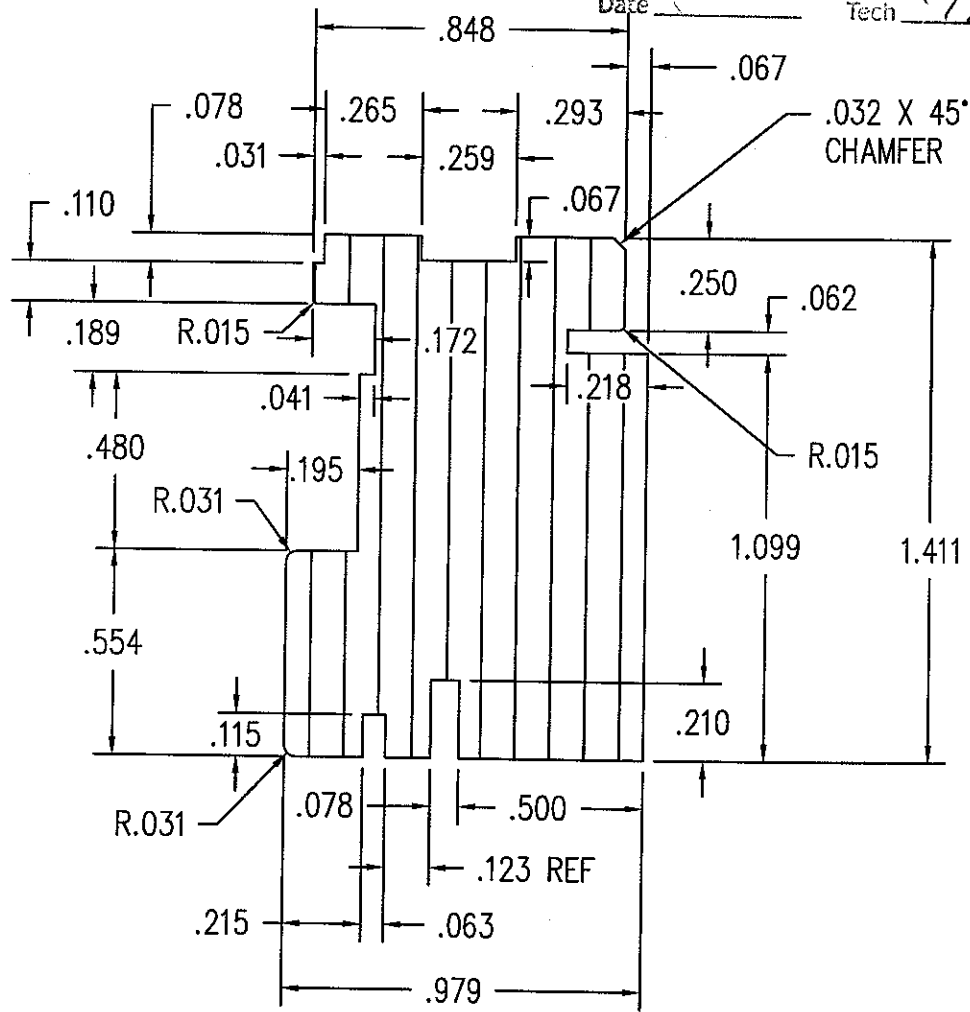
NO	DESCRIPTION	DFT	DOC	DATE
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NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. DOUGLAS FIR LVL IS REQUIRED.



Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73120, 73109, 72962  
 Date \_\_\_\_\_ Tech TL



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TITLE: '07 CLAD DOUBLE HUNG UPPER CHECK RAIL


FINISH:

MATL: SEE NOTE #2

03	CHANGED PROFILE	TWN	PRE	3/20/07
02	REVISED PROFILE	TWN	PRE	1/15/07
01	UPDATED PROFILE	KJS	0881	1/4/07
NO	DESCRIPTION	DFT	DOC	DATE

DFT:	tnies	SCALE:	2=1
DCN:	0881	DRWG:	20F2
DATE:	9/28/2006	A	01 OF 02

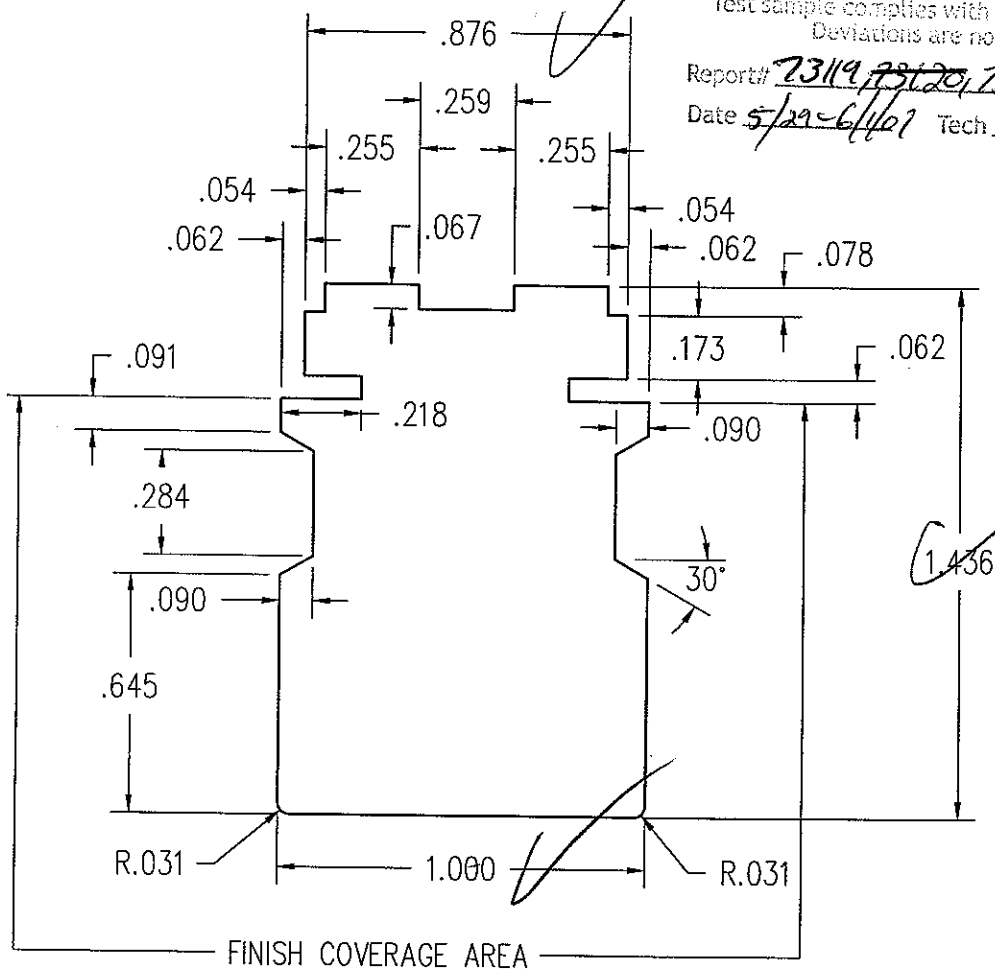
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .

 Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73120, 73109, 22962

Date 5/29-6/10/07 Tech TG



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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

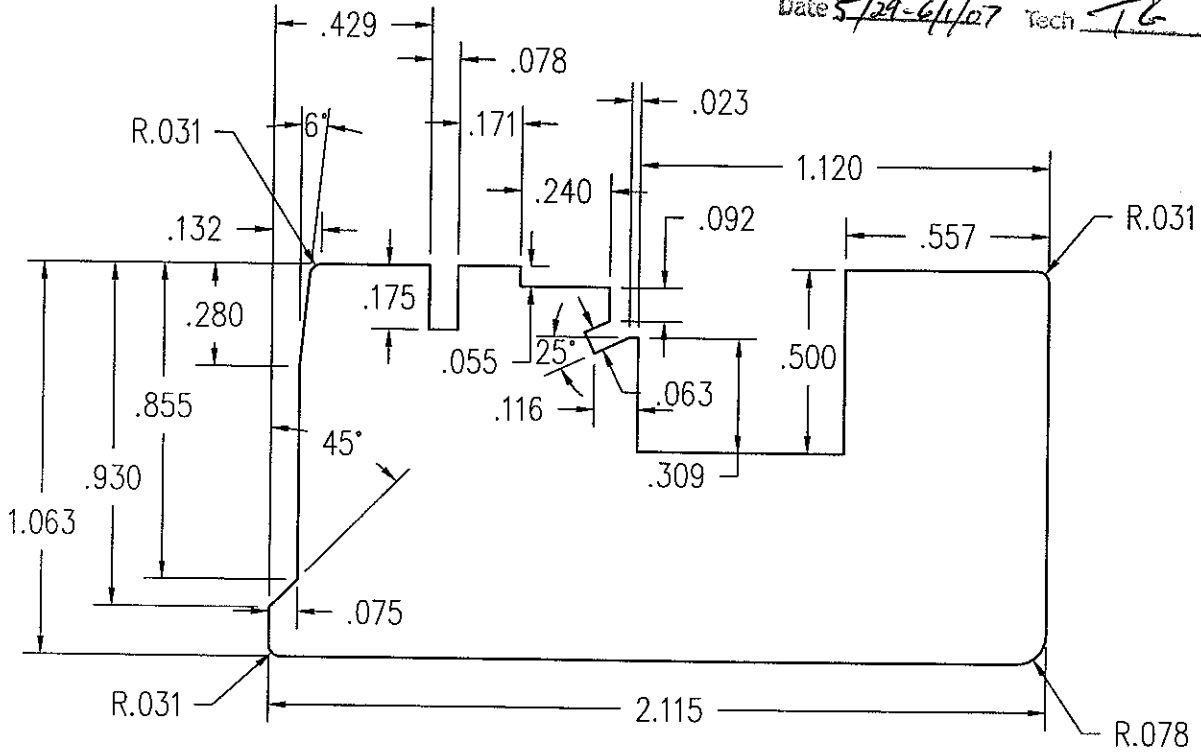
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .



Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 23119-73120-73109-72962  
Date 5/29-6/1/07 Tech TG



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TITLE: '07 CLAD DOUBLE HUNG LOWER CHECK RAIL

FINISH:

MATL: CLEAR PINE

DFT: tnies SCALE: 2=1

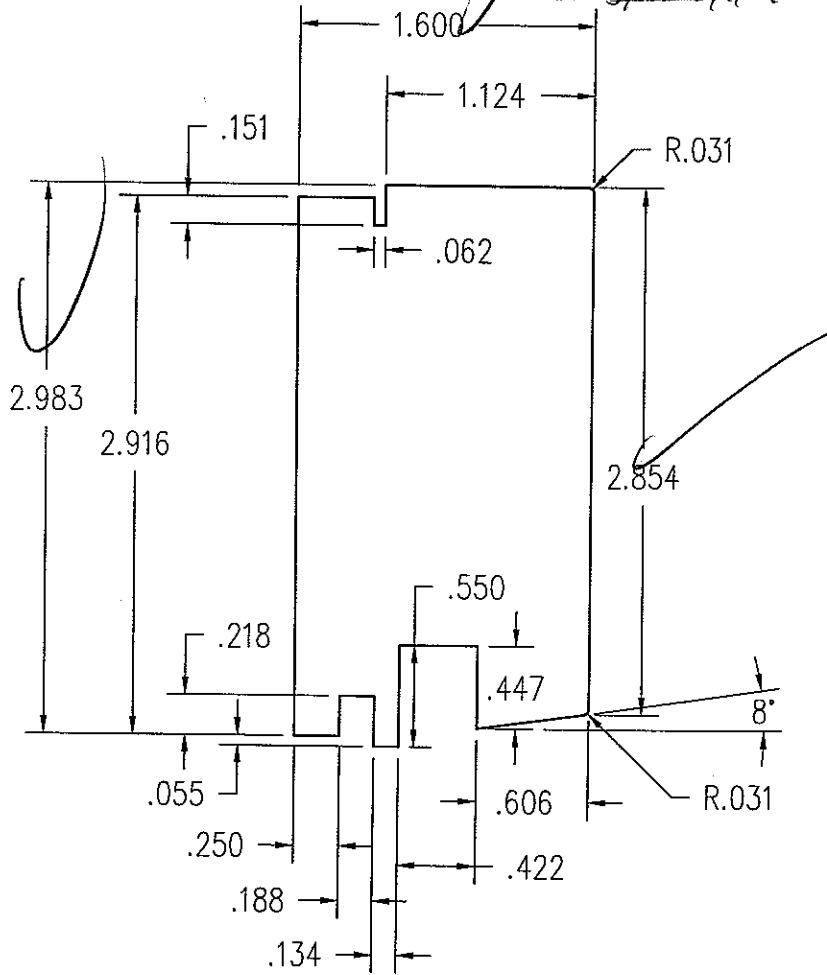
01	UPDATED PROFILE	KJS	0881	1/4/07	DCN: 0881	DRWG: 20F5
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 9/28/2006	A 01 OF 02

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

Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73120, 73109, 72962  
Date 5/29-6/1/07 Tech TG



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TITLE: '07 CDHV, CDHF WIDE RAIL

FINISH:

MATL: CLEAR PINE

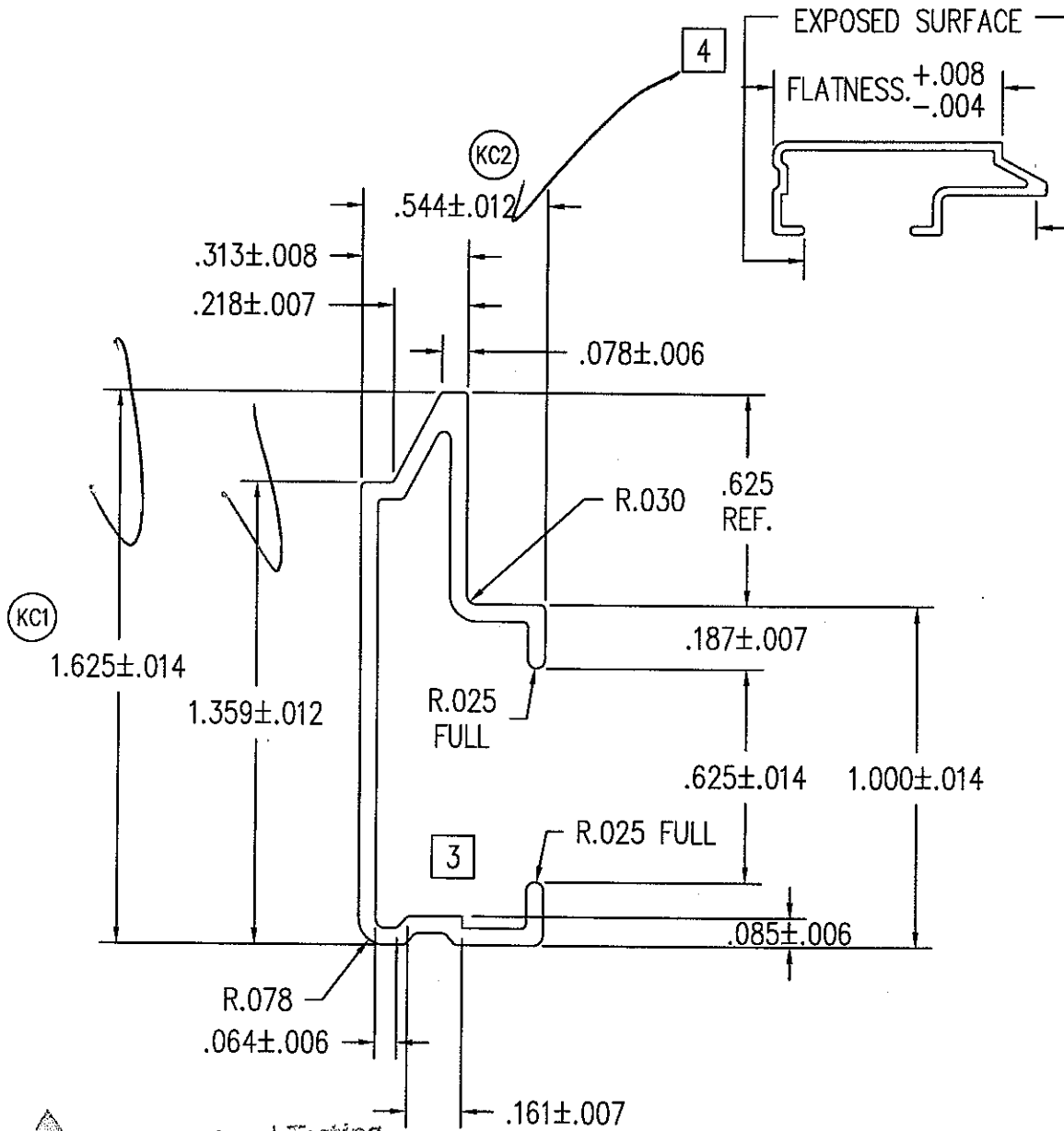
DFT: tnies SCALE: 1=1

DCN: 0881 DRWG: 20E8

DATE: 9/29/2006 A 01 OF 02

NO	DESCRIPTION	DFT	DOC	DATE
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- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. TYPICAL WALL THICKNESS  $.050 \pm .005$ .  
 3. UNSPECIFIED RADIUS TO BE  $.015$ .



Architectural Testing

Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73120, 73107, 72962  
 Date 5/29-6/10/97 Tech JG

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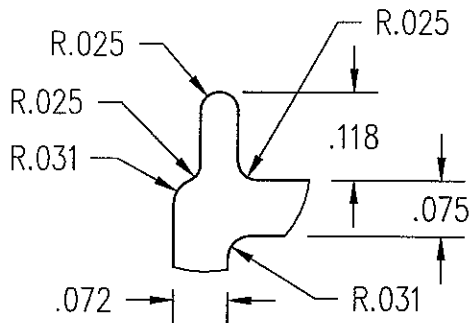
TITLE: CDHV, CDHF, CSW, CDHVET  
 SASH COVER

FINISH: EAGLE'S STD. COLORS

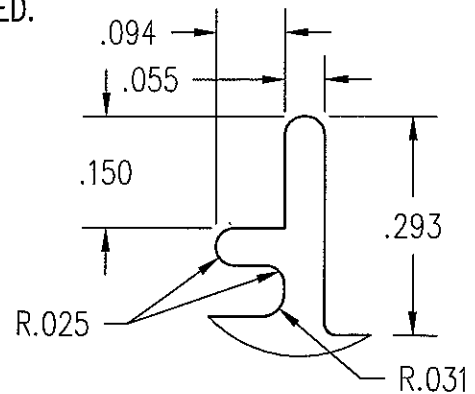
05	ADDED E-TILT DHG	RJW	0589	6/26/2002		
04	ADDED TOLERANCE SPECS.	TWN	0595	8/31/2001	MATL:	6063 T-6 ALUMINUM
03	REVISED PROFILE	CEL	0366	10/27/1998		OR EQUIVALENT
02	CHG'D DESCRIPTION	CEL	0247	4/14/1997	DFT:	GDE
01	PROFILE REDESIGNED	BRL	0215	8/29/1995	DCN:	0073
NO	DESCRIPTION	DFT	DOC	DATE	DATE:	3/26/1993
					SCALE:	2=1
					DRWG:	A16K
					A	01 OF 02



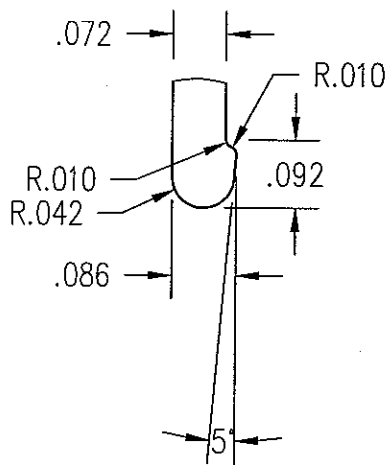
- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm .005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. WALL THICKNESS TO BE .050 UNLESS OTHERWISE SPECIFIED.  
 3. RADIUS TO BE .016 UNLESS OTHERWISE SPECIFIED.



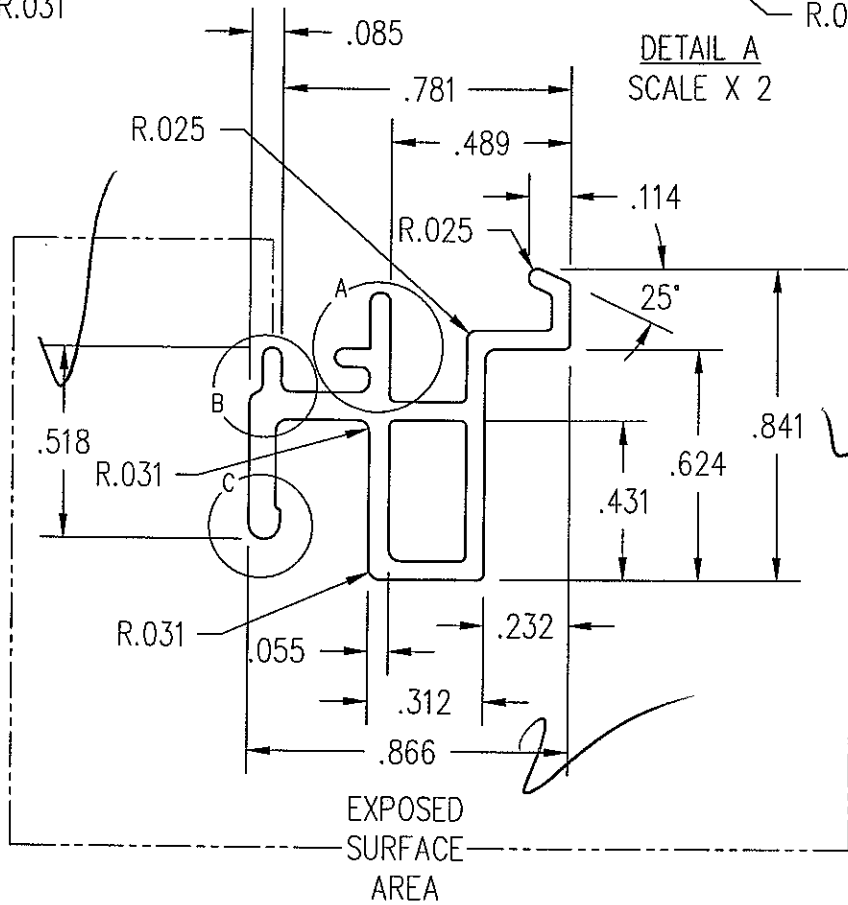
DETAIL B  
SCALE X 2



DETAIL A  
SCALE X 2



DETAIL C  
SCALE X 2



Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73120, 73109, 72962  
Date 5/29-6/16/07 Tech TG

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TITLE: '07 CDHV  
BOTTOM CHECK RAIL  
FINISH: EAGLE'S STD. COLORS

MATL: 6063 - T6 ALUMINUM

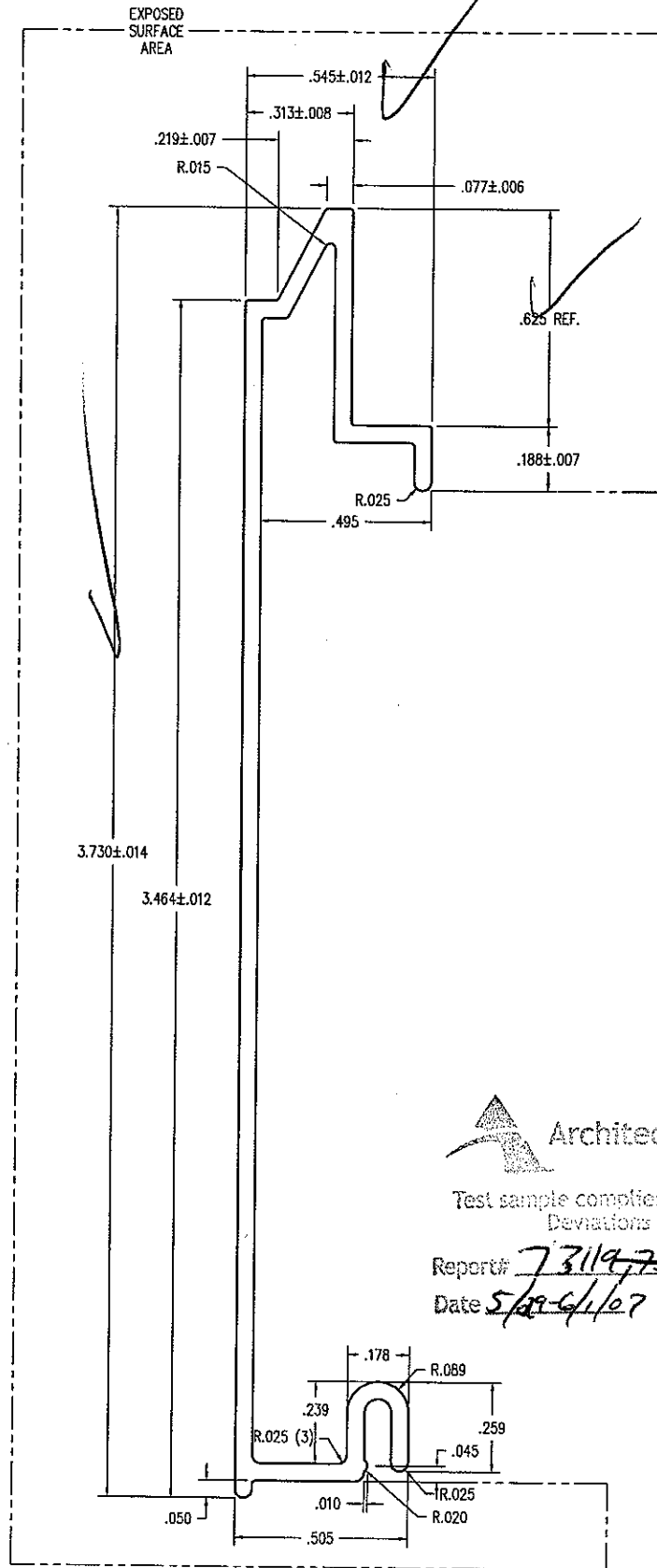
DFT: ksmith SCALE: 2=1

DCN: 0881 DRWG: A72X

DATE: 1/29/2007 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.  $\pm 0.010$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. TYPICAL WALL THICKNESS .050.  
 3. UNSPECIFIED RADIUS TO BE .010.  
 4. AREA = .287 SQ. IN.



Architectural Testing

Test sample complies with these details.  
 Deviations are noted.

Report# 73119, 73120, 73109, 72962

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

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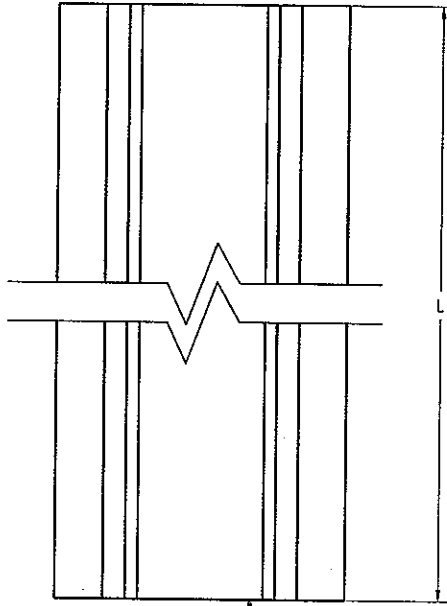
TITLE: 107 CDHV, CDHF  
 LOWER RAIL COVER  
 FINISH: EAGLE'S STD. COLORS

MATL: 6063 T-6 ALUMINUM

DF: ksmilh SCALE: 2=1

NO	DESCRIPTION	DFT	DOC	DATE	DATE: 1/29/2007	C	01 OF 02
01	CHANGED PROFILE	TWN	PRE	12/12/06	DCN: 0881	DRWG: A71X	

- NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. UNLESS OTHERWISE SPECIFIED, WALL THICKNESS IS .045  
 3. UNLESS SPECIFIED, BREAK ALL CORNERS .015.  
 4. PROFILE AREA = .075 SQ. IN.  
 5. SHG (L) = AFH/2 - 1.188.  
 SHG COTT. (L) = AFH/2 + 4.812.  
 SHG REV. COTT. (L) = AFH/2 - 7.188.

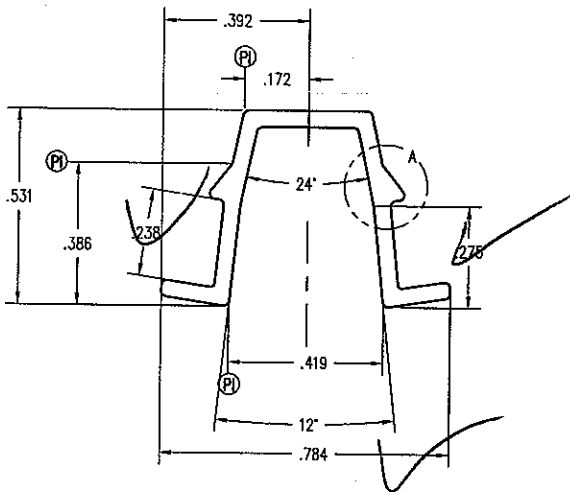


DOUBLE HUNG	
FRAME HEIGHT	L
36	0
40	0
48	0
54	0
60	0
66	12
72	12
78	12
84	12
90	24

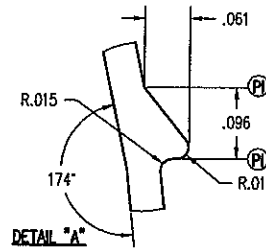
SINGLE HUNG	
FRAME HEIGHT	L
36	16 13/16
40	18 13/16
48	22 13/16
54	25 13/16
60	28 13/16
66	31 13/16
72	34 13/16
78	37 13/16
84	40 13/16
90	43 13/16

DH COTT.	
FRAME HEIGHT	L
36	0
40	0
48	0
54	14
60	14
66	14
72	14
78	14
84	14
90	24

DH REV. COTT.	
FRAME HEIGHT	L
36	0
40	0
48	0
54	0
60	0
66	0
72	12
78	12
84	12
90	12



3



Architectural Testing

Test sample complies with these details.  
 Deviations are noted.

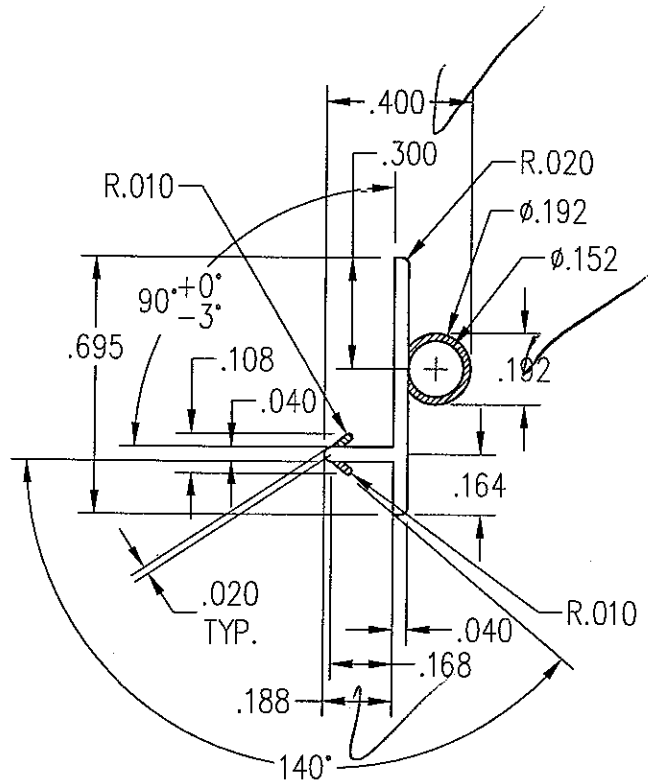
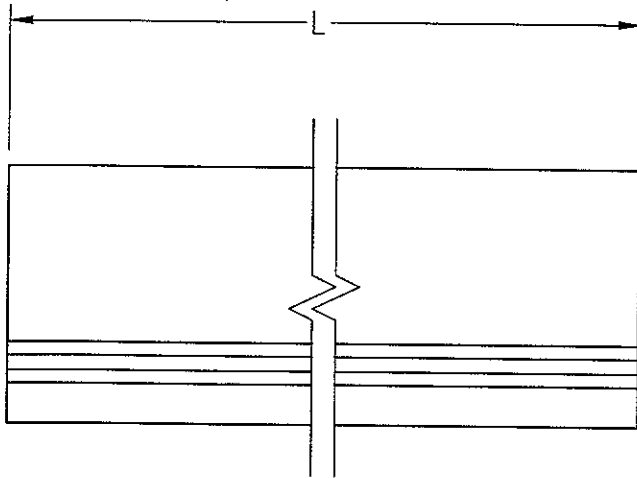
Report# 23119, 23120, 73101, 72962  
 Date 5/29-6/1/07 Tech TG

PVC TOLERANCES	
.000-125	$\pm 0.010$
.125-500	$\pm 0.015$
.500-2.00	$\pm 0.020$
2.00-4.00	$\pm 0.030$
4.00-5.00	$\pm 0.040$
WALLS	$\pm 0.005$
ANGLES	$\pm 3'$

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TITLE:	CDHV/WDHV SASH STOP
FINISH:	BEIGE, WHITE
MATL:	RIGID PVC

03   CHG'D LENGTHS TO 14"	TWN   TRKR   10/20/05	DFT:	AWW	SCALE: 2=1
02   CORRECT 78" SHG (L)	AWW   0844   1/22/04	DCN:	0589	DRWG: A52F
01   FLARED LEGS APART	PJE   0805   7/9/03	DATE:	2/4/2002	C 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.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .
2. ALL NON LABELED RADIUS ARE  $.020$ .
3. L = AFW -  $3 \frac{13}{16}$ ".



Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report# 73119, 73120, 73109, 72962  
Date 5/29-6/1/07 Tech SG

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TITLE: '07 CDHV  
CR WEATHERSTRIP

FINISH: BEIGE

MATL: DUAL DURAMETER / VINYL

DFT: ksmith SCALE: 2=1

DCN: 0881 DRWG: A72T

DATE: 1/29/2007 A 01 OF 01

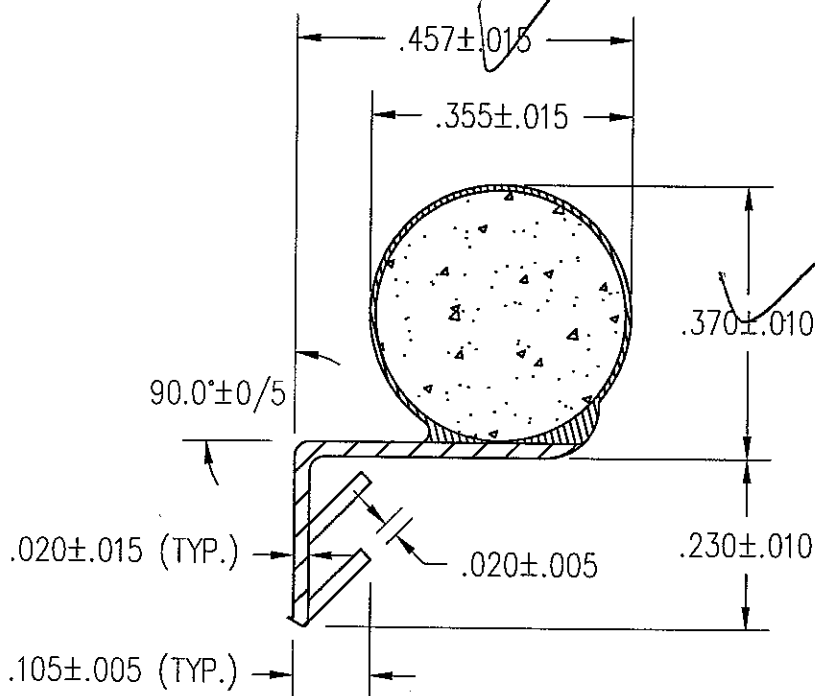
01	CHANGED BULB SIZE	TWN	PRE	3/20/07
NO	DESCRIPTION	DFT	DOC	DATE

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



Test sample complies with these details.  
Deviations are noted.

Report# 73119, ~~73120~~, 73109, 72962  
Date 5/29/67 Tech IG



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TITLE: DH HEAD WEATHERSTRIP

FINISH:

MATL:

DFT: RJW

SCALE: 4=1

DCN: 0498

DRWG: A43G

DATE: 9/28/00

A 01 OF 02

NO	DESCRIPTION	DFT	DOC	DATE
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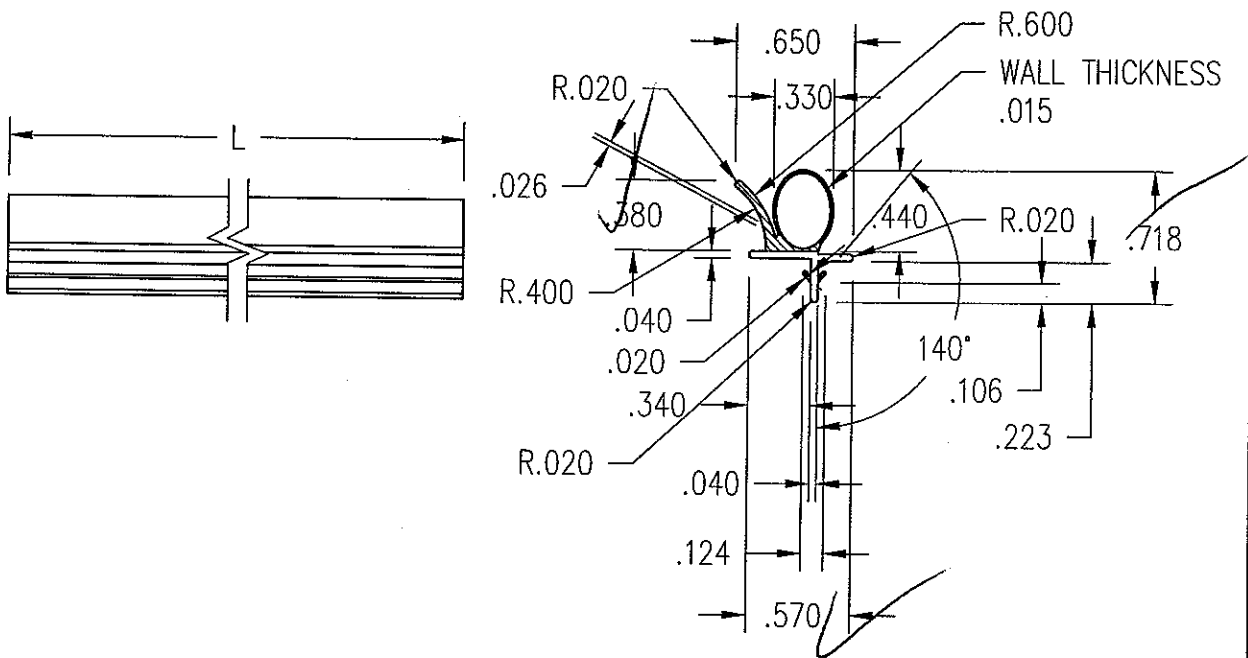
NOTE: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ARE IN INCHES AND ALL TOLERANCES ARE TO BE: DEC.  $\pm 0.005$ ; FRAC.  $\pm 1/64$ ; ANGLES  $\pm 1/2^\circ$ .  
 2. L = AFW - 3.800.



Architectural Testing

Test sample complies with these details.  
 Deviations are noted.

Report# ~~731973120~~ 7309, 7292  
 Date ~~5/29-6/1/07~~ Tech ~~JG~~



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TITLE: '07 CDHV  
 BULB W-STRIP

FINISH:

MATL:

DFT: ksmith

SCALE: 1=1

DCN: 0881

DRWG: A72G

DATE: 1/29/2007

A 01 OF 01

01	CHANGED PROFILE	TWN	PRE	3/20/07
NO	DESCRIPTION	DFT	DOC	DATE

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

2. (4) PCS./UNIT REQ'D. -- (2) TOP (EXT.), (2) BOTTOM (INT.).

3. UPPER SASH:  $DH L = AFH/2 - 2"$ .

LOWER SASH:  $DH L = AFH/2 + 11/32"$ .

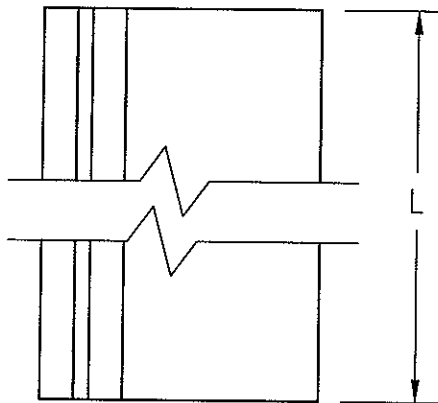
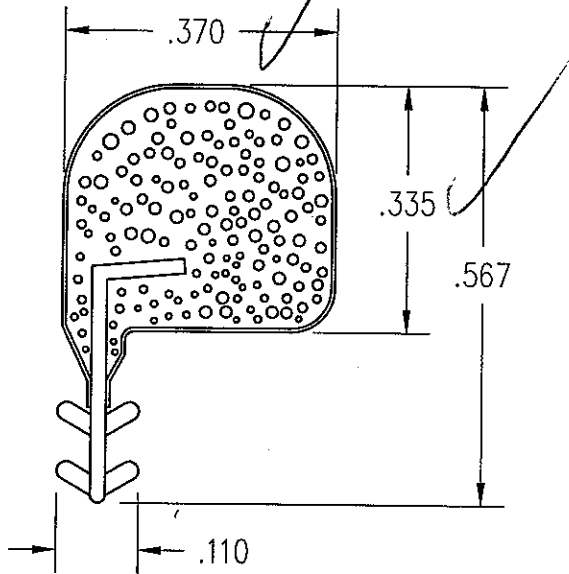
4. CSD USES BEIGE, (L) =  $AFH - 1 7/8"$

5. COMPRESSION SPECIFICATION

A) 4.5 LBS  $\pm 1$  LB @  
25% COMPRESSION (.084")

B) .2 LBS PRE-LOAD

C) 4.000" PIECE  $\pm .020"$



DOUBLE HUNG		
FRAME HEIGHT	UPPER SASH L	LOWER SASH L
36	16	18 11/32
40	18	20 11/32
48	22	24 11/32
54	25	27 11/32
60	28	30 11/32
66	31	33 11/32
72	34	36 11/32
78	37	39 11/32
84	40	42 11/32
90	43	45 11/32
96	46	48 11/32
102	49	51 11/32
108	52	54 11/32
114	55	57 11/32
120	58	60 11/32

CSD (INTERLOCK)	
FRAME HEIGHT	L
80	78 1/8
82	80 1/8
96	94 1/8
120	118 1/8

Architectural Testing  
 Test sample complies with these details.  
 Deviations are noted.  
 Report# 7319, 7319, 7319, 7319, 7319, 7319  
 Date 5/29-6/6/07 Test 1/5

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TITLE: DHG JAMB WEATHER STRIP  
 SCHLEGEL (LAMINATED LINER)

FINISH:

MATL: CORE: HR URETHANE FOAM  
 SKIN: PE LINER M5

03	UPDATED DHG CHART & NOTE #3	KJS	0881	1/5/07		
02	ADD COMPRESSION SPEC	PJB	0873	4/6/2004	DFT: AWW	SCALE: 4=1
01	ADD CSD CHART	AWW	0743	2/17/2003	DCN: 0589	DRWG: A523
NO	DESCRIPTION	DFT	DOC	DATE	DATE: 8/23/2001	A 01 OF 01