



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**Hurd Millwork Company
575 S. Whelen Avenue
Medford, WI 54403**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Clad Outswing Wood Casement Window

APPROVAL DOCUMENT: Drawing No. 1044, dated 07/19/01, with revision "1" dated 10/29/02, titled "Clad Wood Outswing Casement Impact Windows", sheets 1 through 3, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 01-1012.01 and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**



**NOA No 02-1120.07
Expiration Date: January 03, 2007
Approval Date: January 23, 2003
Page 1**

Hurd Millwork Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1044**, dated 07/19/01, with revision "1" dated 10/29/02, titled "Clad Wood Outswing Casement Impact Windows", sheets 1 through 3, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per TAS 202-94
2) Uniform Load Static Air Pressure Test, per TAS 202-94
3) Water Resistance Test, per TAS 202-94
4) Forced Entry Resistance Test, per FBC3603.2 (b) 5.
5) Large Missile Impact Test, FBC TAS 201-94
6) Cyclic Loading Test, per FBC TAS 203-94

along with installation diagram of outswing-casement window X and OX, marked-up by Certified Testing Laboratory, Inc., Test Report No. **CTLA-679WA, specimen #1, 2, 3, 4, 6, 7 & 8** dated 04/02/01 thru 06/19/01, signed and sealed by Ramesh Patel, P. E.

2. Test reports on 1) Air Infiltration Test, per TAS 202-94
2) Uniform Load Static Air Pressure Test, per TAS 202-94
3) Water Resistance Test, per TAS 202-94
4) Forced Entry Resistance Test, per FBC3603.2 (b) 5.
5) Large Missile Impact Test, FBC TAS 201-94
6) Cyclic Loading Test, per FBC TAS 203-94

along with installation diagram of outswing-casement window X and OX, marked-up by Certified Testing Laboratory, Inc., Test Report No. **CTLA-899WA, specimen #3A** dated 05/10/02, signed and sealed by Ramesh Patel, P. E.

C. CALCULATIONS

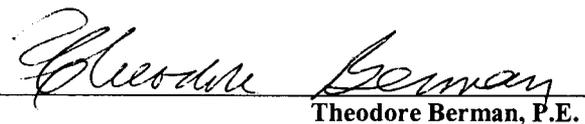
(Submitted under previous approval NOA #01-1012.01)

1. Anchor verification calculations and structural performance dated 05-16-01 and revised on 11-16-01, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

D. MATERIAL CERTIFICATIONS

(Submitted under previous approval NOA #01-1012.01)

1. Notice of Acceptance No. **01-0206.22** for "Cardinal Sea-Storm Type B" laminated glass, issued to Cardinal LG, expiring 12-30-2002.


Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 02-1120.07

Expiration Date: January 03, 2007

Approval Date: January 23, 2003

Hurd Millwork Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

E. STATEMENTS

1. Statement letter of conformance and "No financial interest", dated July 19, 2001, signed by Warren W. Schaefer, P.E.
2. Statement letter of Lab compliance, part of the report, issued by Certified Testing Lab, signed and sealed by Ramesh Patel, P. E.
3. Addendum letter to test report CTLA-679WA issued by Certified Testing Lab, dated November 19, 2001, signed and sealed by Ramesh Patel, P. E.

F. OTHER

1. Notice of Acceptance No. 01-1012.01, issued to Hurd Millwork Company for their Series "Aluminum Cladwood Outswing Casement Window", approved on 01/03/02 and expiring on 01/03/07.
2. Letter from consultant stating that the product is in compliance with the Florida Building Code (FBC).

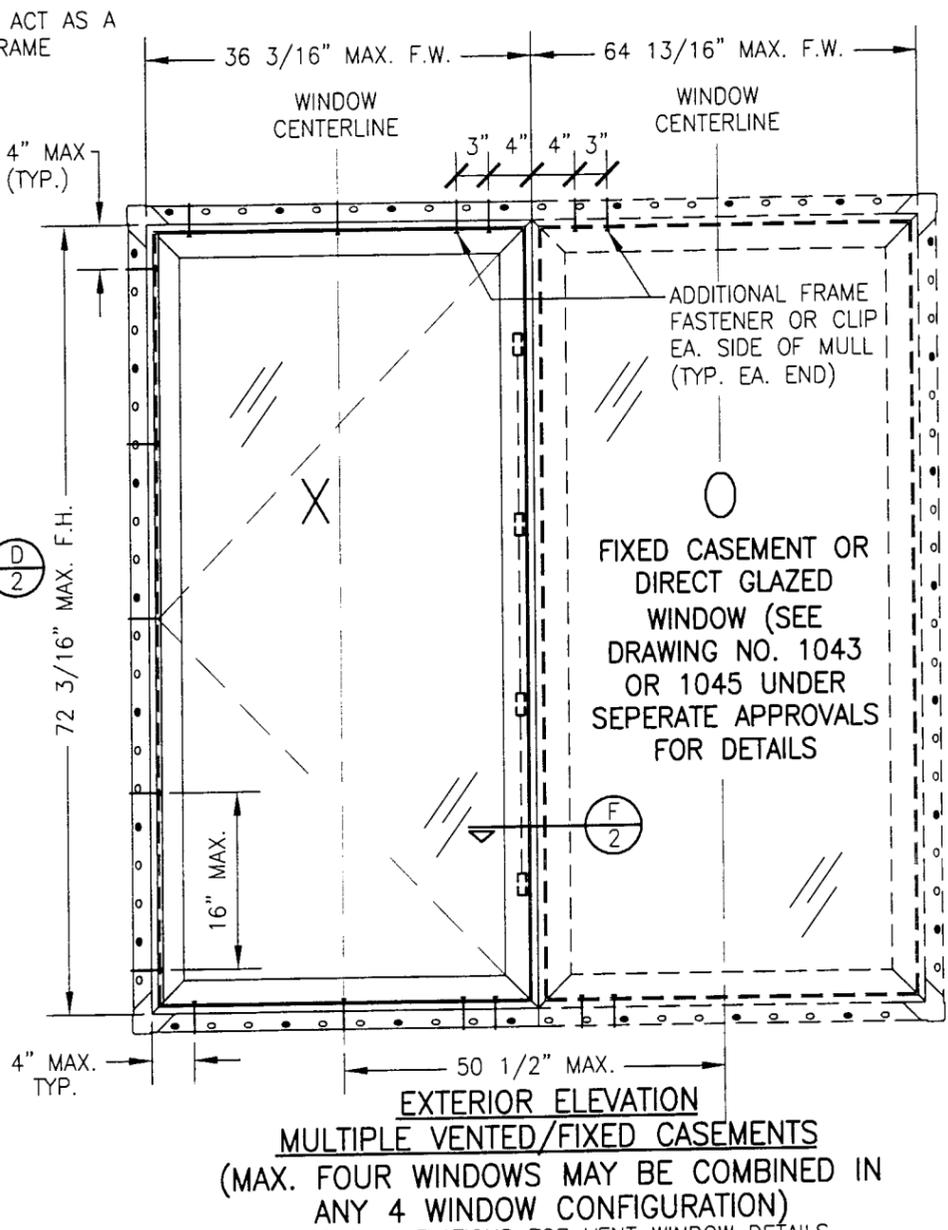
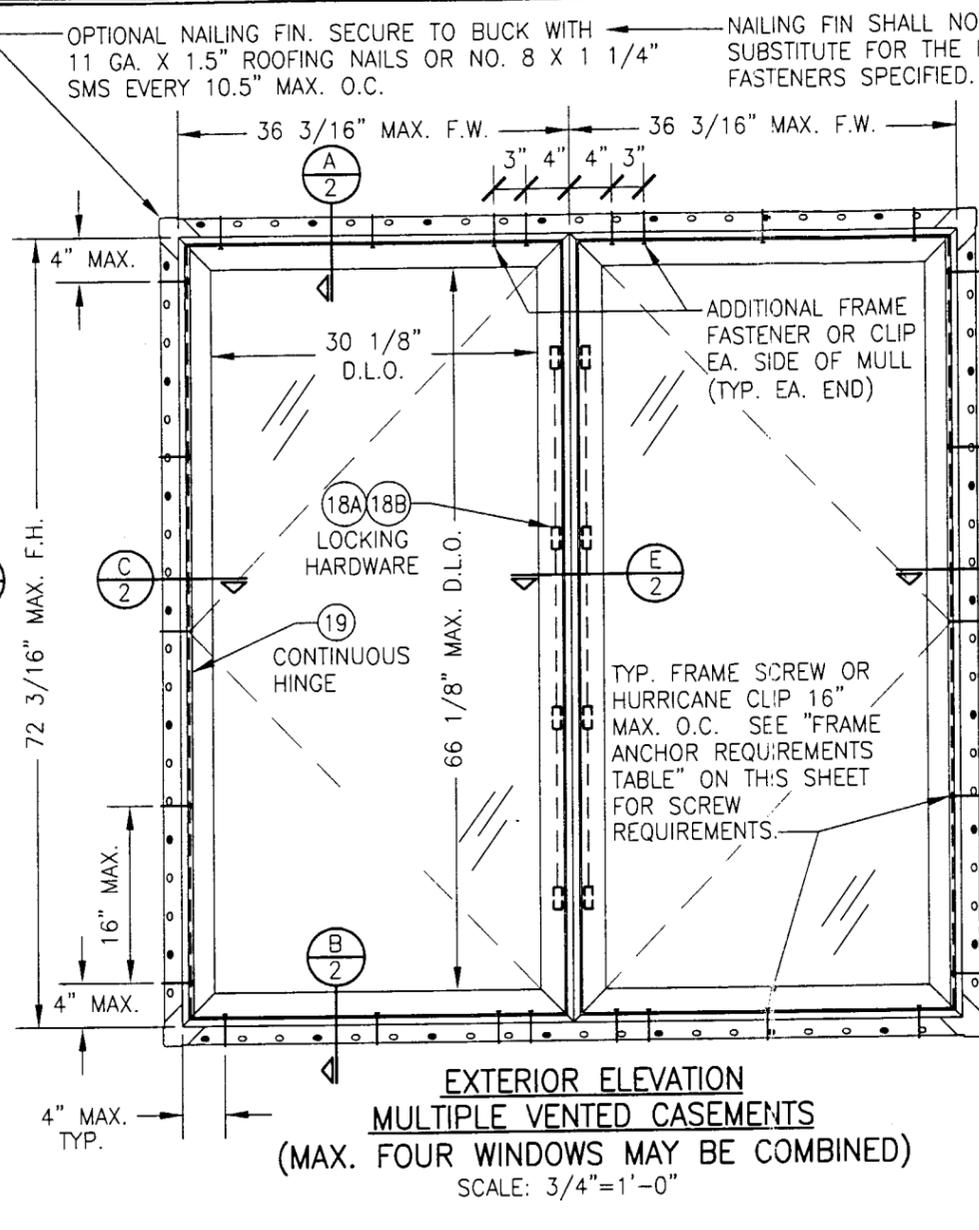
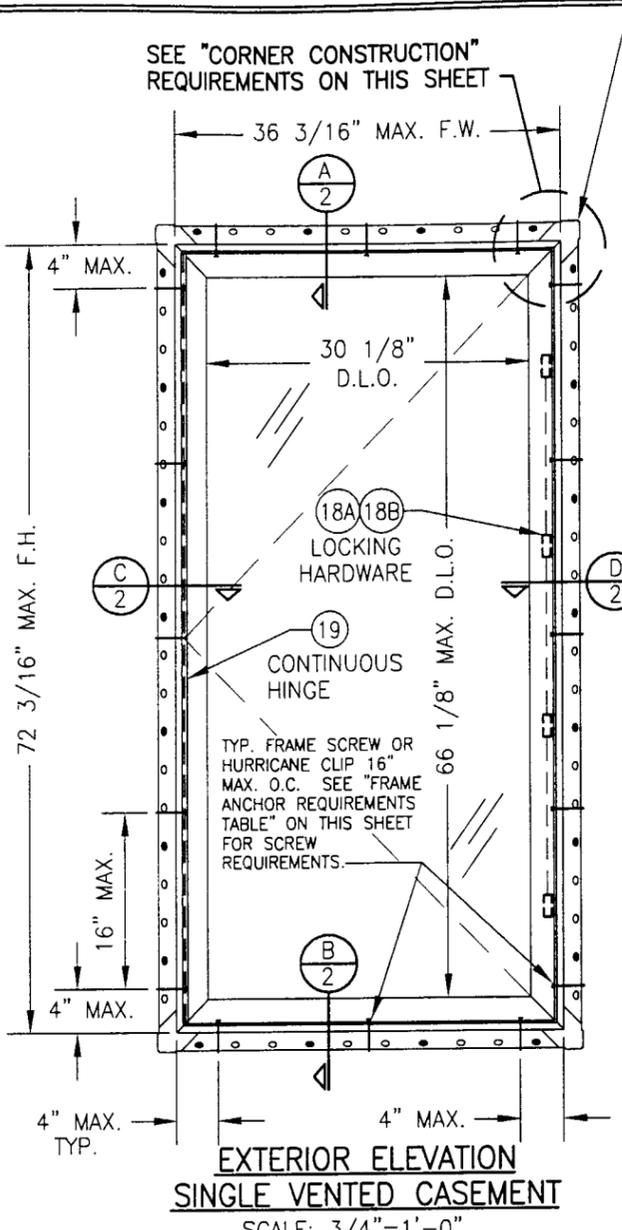


Theodore Berman, P.E.
Deputy Director, Product Control Division

NOA No 02-1120.07

Expiration Date: January 03, 2007

Approval Date: January 23, 2003



GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (F.B.C.).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No 02-1120-07
 Expiration Date 01/03/03
 By *Charles Herman*
 Miami Dade Product Control Division

CORNER CONSTRUCTION:
SASH: WOOD MEMBERS ARE LAPPED TOGETHER & STAPLED WITH TWO(2) GSN-18-1/2" GALVANIZED STAPLES. CLAD IS MITERED & JOINED WITH AN "ABS" CORNER KEY (HURD PART NO. W1208) & THEN SEALED WITH 3-M JET WELD TE-031 SEALANT.
JAMB: WOOD MEMBERS ARE PARTIALLY DADO'D & JOINED WITH (3) 2.5" 16 GA. CROWN STAPLES THROUGH HEAD/SILL & INTO SIDE JAMBS. CLAD IS MITERED & JOINED WITH A NYLON CORNER KEY (HURD PART NO. CCSE620). THE CLAD CORNER IS ALSO GASKETED WITH A CLOSED CELL FOAM 0.062" THK. GASKET AND SECURED WITH 2 NO. 6 X 1/2" SMS SCREWS (ONE THROUGH SIDE & ONE THROUGH HEAD/SILL INTO CORNER KEY).

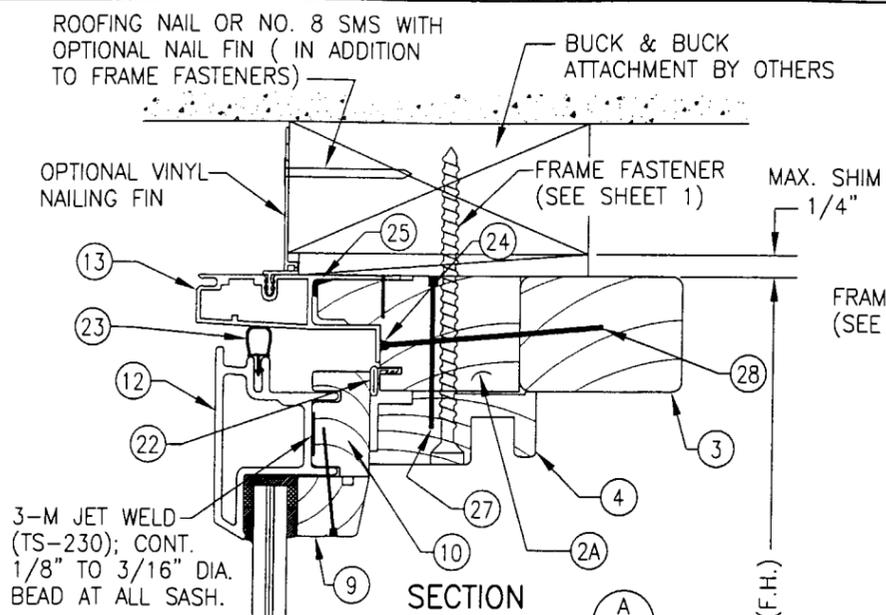
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 10 SMS SCREW	1 3/8"	1"
CMU/CONCRETE	1/4" TAPCON	1 1/4"	2"

ANCHOR NOTE: FRAME MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A 1X4 P.T. CONTINUOUS SPACER, OR ANCHORED TO A MIN. 2X4 NO. 2 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED TO A 2X4 BUCK, NO. 10 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 1/4" TAPCONS SHALL BE USED. SEE "ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS. PROPER MATERIAL SHALL BE USED BETWEEN ALL DISIMILAR MATERIALS (BLOCK/CONCRETE & ALUMINUM).

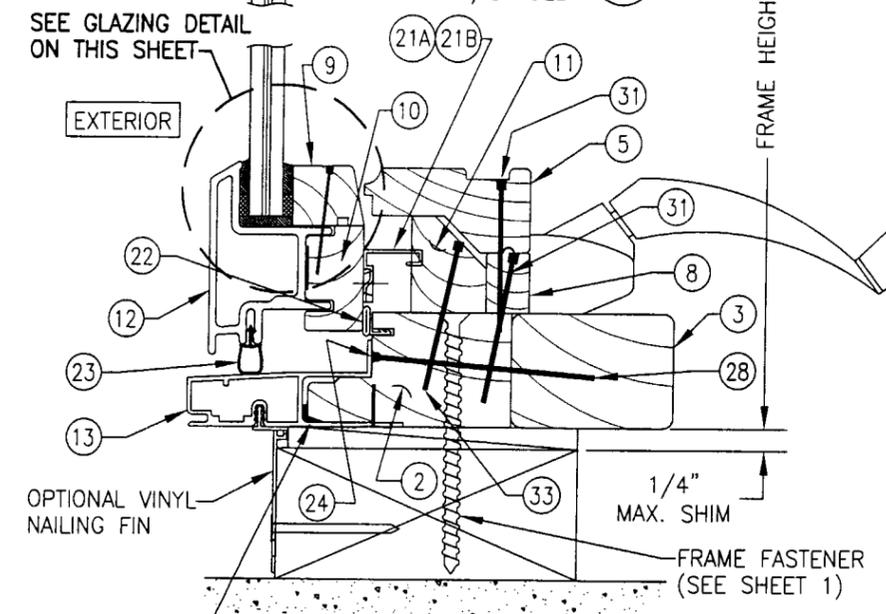
WINDOW HEIGHT	NUMBER OF LOCK POINTS REQUIRED	
	ROTO LOCKS (18A)	TRUTH LOCKS (18B)
64" TO 72"	4	5
54" TO 63"	4	4
38" TO 53"	3	3
19" TO 37"	2	2
18" OR LESS	1	1

	POSITIVE	NEGATIVE
	65 PSF	70 PSF

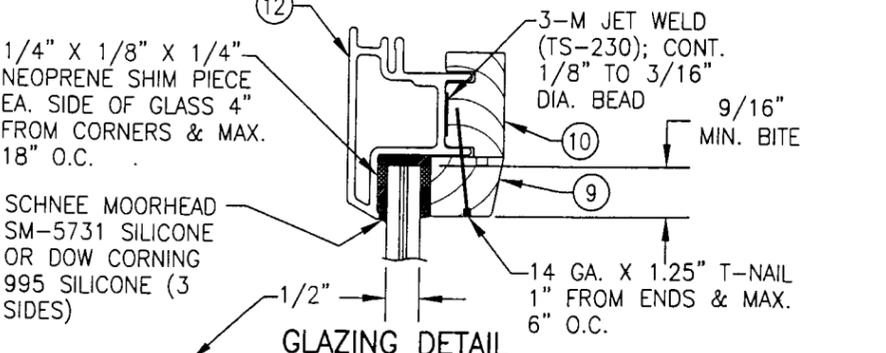
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 07/19/01
DATE 10/29/02	BY W.W.S.
REVISION DESCRIPTION	NO.
ADDED MULLING TO DIRECT GLAZED WINDOW	1
CLAD WOOD OUTSWING CASEMENT IMPACT WINDOWS MANUFACTURER HURD MILLWORK CO., INC. 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION OCT 29 2002 <i>Warren W. Schaefer</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1044	REV.
SHEET NO.	
1 OF 3	



SECTION A
SCALE: 1/2 FULL

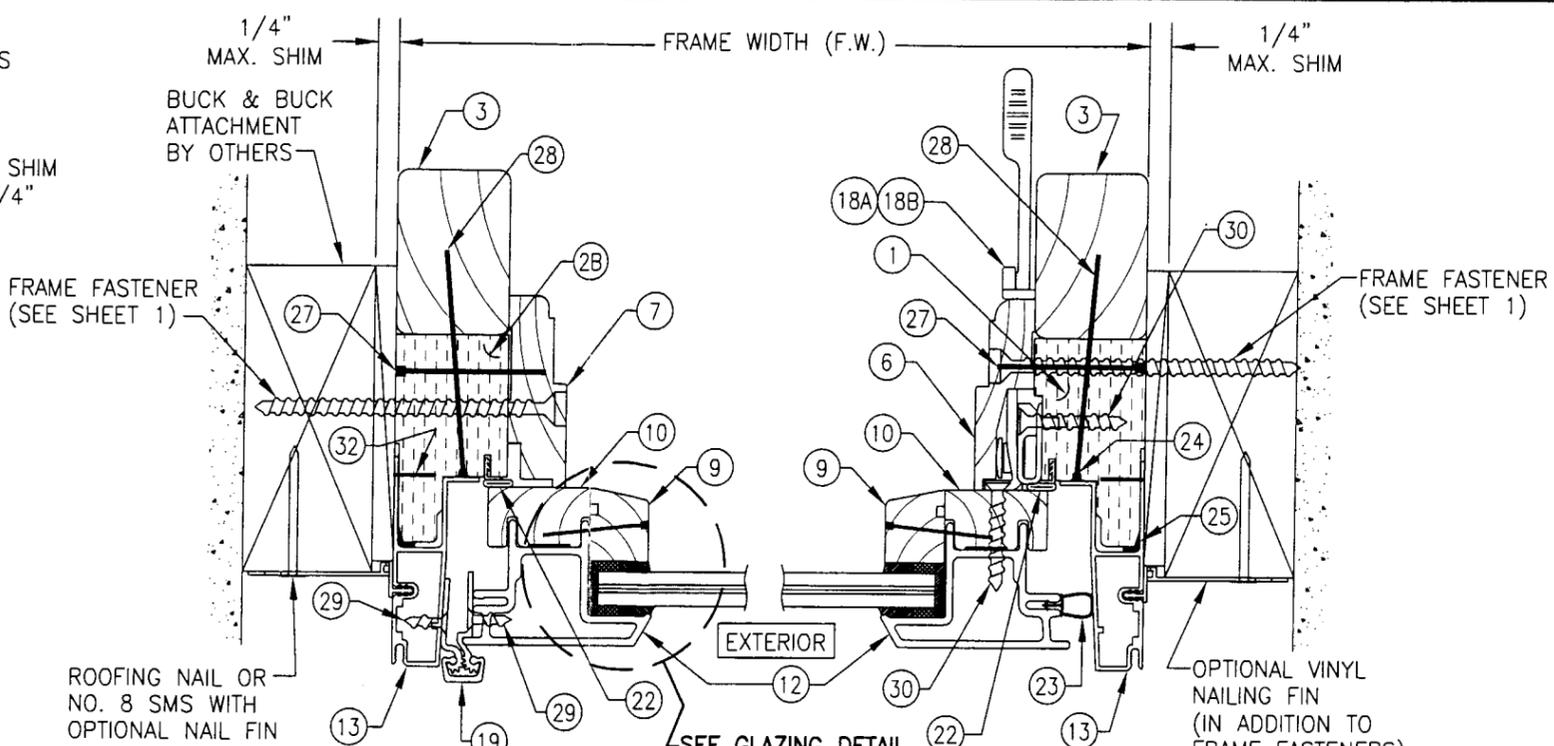


SECTION B
SCALE: 1/2 FULL



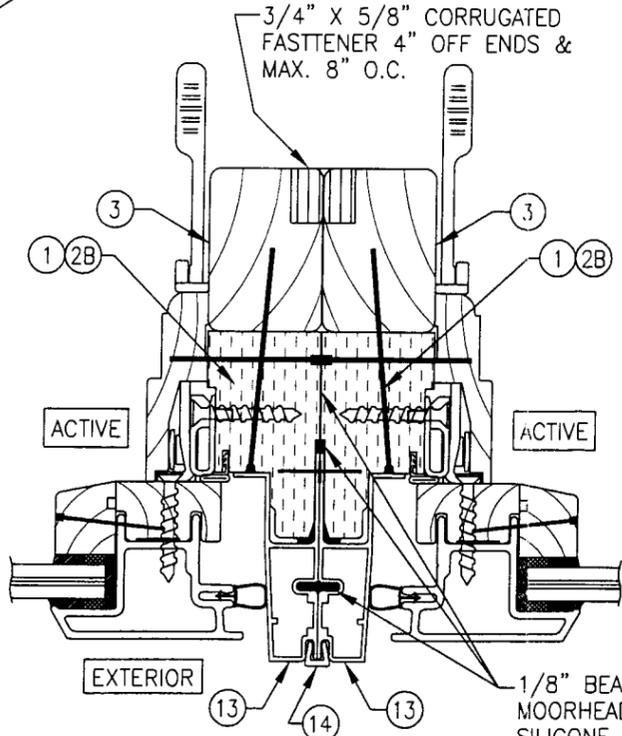
GLAZING DETAIL

- OPTION 1: 1/2" CARDINAL SEASTORM TYPE "B" LAMINATED GLASS (3/16" AN/0.015 PVB/0.007 PET/0.075 PVB/3/16" AN)
 OPTION 2: 1/2" SOLUTIA SAFLEX HP LAMINATED GLASS (3/16" AN/0.10 SAFLEX HP/3/16" AN)

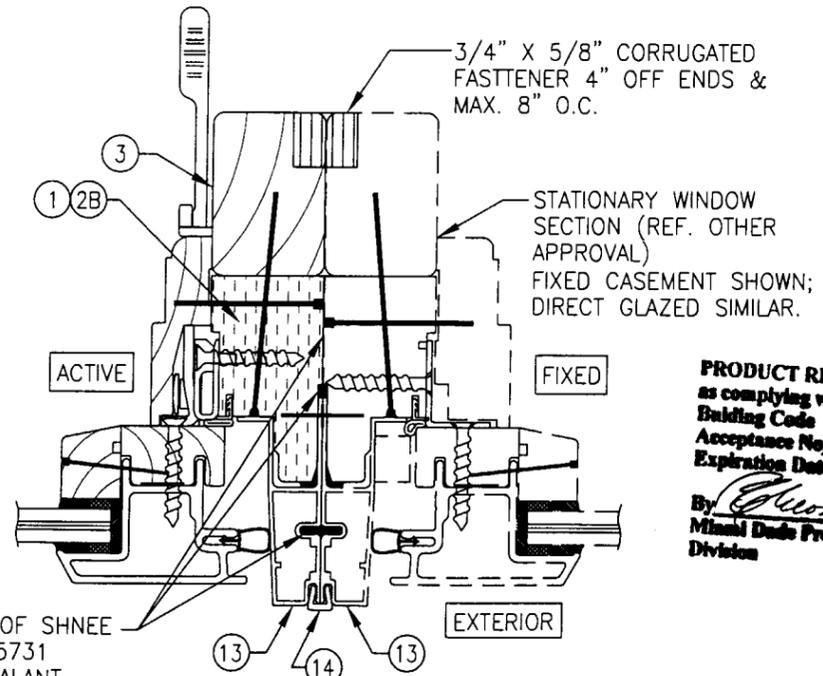


SECTION C
SCALE: 1/2 FULL

SECTION D
SCALE: 1/2 FULL



SECTION E
SCALE: 1/2 FULL



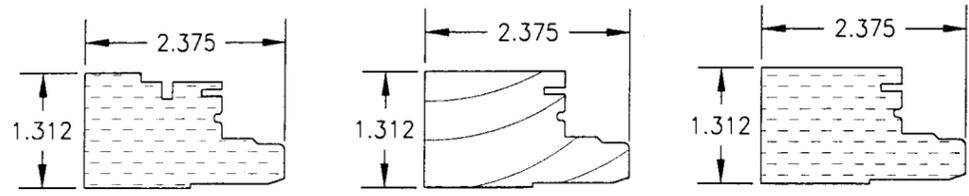
SECTION F
SCALE: 1/2 FULL

SEE SHEET 3 FOR "OPTIONAL DIRECT MOUNT" & "OPTIONAL CLIP INSTALLATION DETAILS."

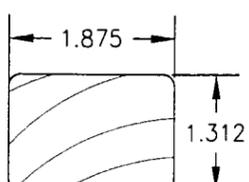
PRODUCT REVISED as complying with the Florida Building Code Acceptance No 02-1120.02 Expiration Date 01/03/02

By *Warren W. Schaeffer* Minimal Data Product Control Division

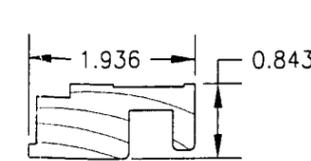
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 07/19/01
NO. 2	REVISION DESCRIPTION
2	ADDED SAFLEX HP GLASS W.W.S.
DATE: 10/29/02	BY: W.W.S.
DRAWING TITLE: CLAD WOOD OUTSWING CASEMENT IMPACT WINDOWS	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
MANUFACTURER: HURD MILLWORK CO., INC.	
600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION: OCT 29 2007	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1044	REV.
SHEET NO. 2	OF 3



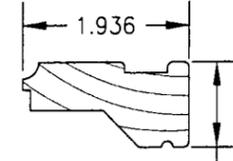
① LOCK SIDE JAMB ②A HEAD & SILL JAMB ②B HINGE SIDE JAMB



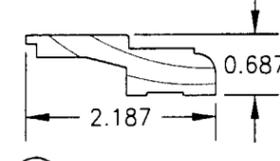
③ JAMB EXTENDER



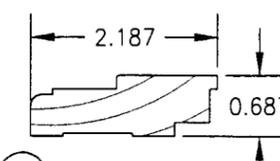
④ HEAD JAMB STOP



⑤ SILL COVER

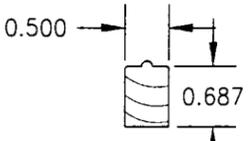


⑥ LOCK SIDE JAMB STOP

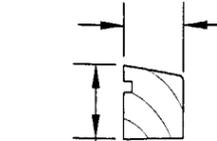


⑦ HINGE SIDE JAMB STOP

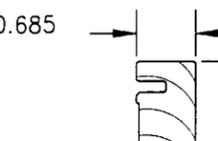
ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	HCCSE223	LOCK SIDE JAMB (1.3E TIMBER STRAND LSL) E = 1300000 PSI; Fb = 1700 PSI	TRUS JOIST MACMILLAN
2A	CCSE215	HEAD & SILL JAMB	* PONDEROSA/SUGAR PINE
2B	CCSE215	HINGE SIDE JAMB (1.3E TIMBER STRAND LSL) E = 1300000 PSI; Fb = 1700 PSI	TRUS JOIST MACMILLAN
3	CCSE225	JAMB EXTENDER	* PONDEROSA/SUGAR PINE
4	CCSE260	HEAD JAMB STOP	* PONDEROSA/SUGAR PINE
5	CCSE285	SILL COVER	* PONDEROSA/SUGAR PINE
6	CCSE235	LOCK SIDE JAMB STOP	* PONDEROSA/SUGAR PINE
7	CCSE245	HINGE SIDE JAMB STOP	* PONDEROSA/SUGAR PINE
8	CCSE290	SILL LOWER SECTION	* PONDEROSA/SUGAR PINE
9	H1205	GLAZING BEAD	* PONDEROSA/SUGAR PINE
10	W1203	SASH INSERT	* PONDEROSA/SUGAR PINE
11	CCSE295	SILL STOP BLOCK (QTY AS REQ'D BY WINDOW SIZE); SUPPORTS COVER.	* PONDEROSA/SUGAR PINE (NON-STRUCTURAL)
12	W1204	SASH CLADDING	OMNIGLASS FIBERTHERM
13	CCSE440	JAMB CLADDING	6063-T5 ALUMINUM
14	CCSE470	CONTINUOUS MULLION CLIP	6060-T5 ALUMINUM
15	-	16 GAGE (0.058" THK.) HURRICANE CLIP	STEEL (Fy = 33 ksi MIN.)
16	CCSE620	JAMB CLAD CORNER KEY	NYLON 66 MATERIAL
17	W1208	SASH CLAD CORNER KEY	ABS FIBERGLASS
HARDWARE			
18A	LB0114AS	ROTO MULTI-POINT LOCK HARDWARE	ROTO
18B	-	TRUTH MULTI-POINT LOCK HARDWARE	TRUTH MIRAGE
19	CCSE1035	ROTON CONTINUOUS GEAR HINGE	6063-T6 ALUMINUM
21A	-	OPERATOR & SASH GUIDE BAR	ROTO
21B	-	OPERATOR & SASH GUIDE BAR	TRUTH
SEALS & SEALANTS			
22	CCSE635	FRAME WEATHER STRIP	AMESBURY TBE SKIN/FOAM FILLED
23	W1207	SECONDARY WEATHER STRIP	PVC (HEAD, SILL & LOCK SIDE)
24	-	1/8" DIA. CONT. BEAD OF SEALANT	SCHNEE MOORHEAD SM-5731
25	-	3/16" BEAD SEALANT @ CLAD CORNERS	SCHNEE MOORHEAD SM-5731
26	CCSE670	0.062" THK. JAMB CLAD CORNER GASKET	CLOSED CELL FOAM
MISCELLANEOUS FASTENERS			
27	-	1 3/4" X 0.08" COIL NAIL (SASH STOP FASTENER)	4" FROM CORNER & 6" O.C.
28	-	2 1/2" 14 GAGE CROWN STAPLE @ JAMB EXTENDER	2" FROM CORNER & 8" O.C.
29	-	NO. 6 X 1/2" S.S. SMS HINGE SCREWS	1" FROM ENDS & 4" O.C.
30	-	NO. 8 X 1 1/4" S.S. SMS	2 AT EACH LOCK & KEEPER; 4 AT OPERATOR; 3 AT GUIDE BAR
31	-	1 3/4" 16 GA T-NAIL (SILL COVER & LOWER SECTION)	1" FROM CORNER & 8-10" O.C.
32	-	GSN-18-1/2" STAPLE (CLAD TO JAMB)	2" FROM CORNER & 6" O.C.
33	-	1 3/4" 16 GA. T-NAIL (SILL STOP BLOCK TO JAMB)	1 PER BLOCK



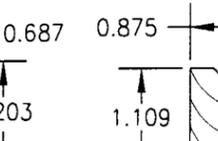
⑧ SILL LOWER SECTION



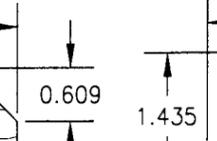
⑨ GLAZING BEAD



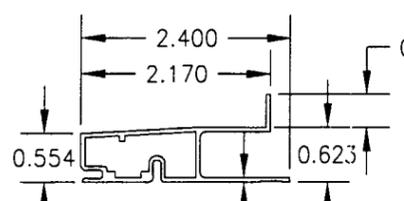
⑩ SASH INSERT



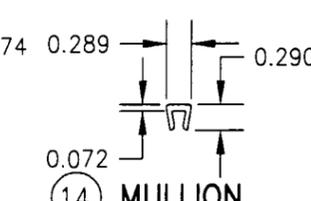
⑪ SILL STOP BLOCK



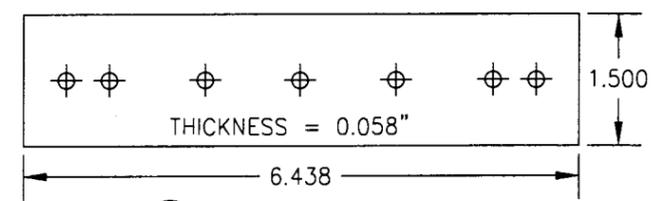
⑫ SASH CLAD



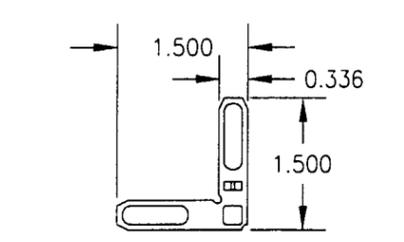
⑬ JAMB CLAD



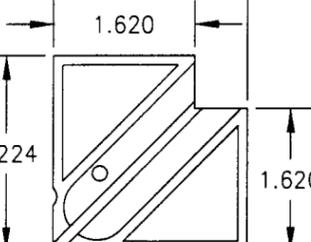
⑭ MULLION CLIP



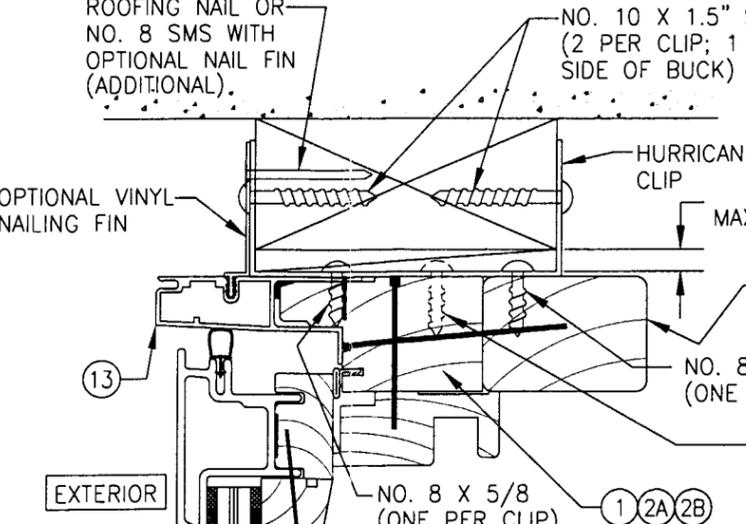
⑮ HURRICANE CLIP



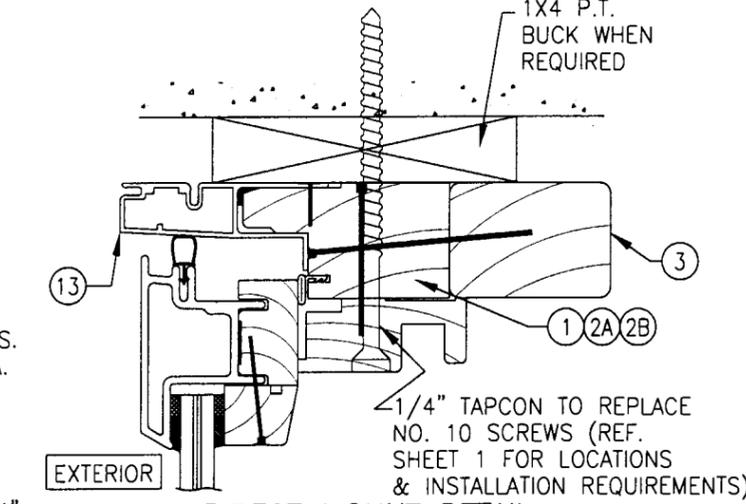
⑯ JAMB CORNER KEY



⑰ SASH CORNER KEY



OPTIONAL CLIP INSTALLATION
HEAD DETAIL SHOWN; OTHER JAMBS SIMILAR
SEE SECTIONS FOR DETAIL NOT SHOWN



DIRECT MOUNT DETAIL
HEAD DETAIL SHOWN; OTHER JAMBS SIMILAR
SEE SECTIONS FOR DETAIL NOT SHOWN

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 02-1120.07
Expiration Date 01/03/03
By *Warren W. Schaefer*
Miami Dade Product Control
Division

* WOOD USED WITH TEST UNITS WAS PONDEROSA PINE. ALTERNATE WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, SOUTHERN PINE, OAK, CHERRY, MAPLE, DOUGLAS FIR & CYPRUS.

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 07/19/01
BY	DATE
REVISION DESCRIPTION	
NO.	
CLAD WOOD OUTSWING CASEMENT IMPACT WINDOWS	
MANUFACTURER HURD MILLWORK CO., INC. 575 S. HELEN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING TITLE CLAD WOOD OUTSWING CASEMENT IMPACT WINDOWS	
CERTIFICATION OCT 29 2007 By <i>Warren W. Schaefer</i> P.E. NO. 44135	
DRAWING NO. 1044	REV.
SHEET NO. 3 OF 3	