



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  
[www.buildingcodeonline.com](http://www.buildingcodeonline.com)

**NOTICE OF ACCEPTANCE (NOA)**

**Hurd Windows & Doors, Inc.**  
575 South Whelen Avenue  
Medford, WI 54451

**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 Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series Feel Safe Aluminum Clad Wood Fixed Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 1404, titled "Feel Safe Aluminum Clad Wood Impact Fixed Casement Window, sheets 1 through 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 07/21/05, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval 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 consists of this page 1 and evidence pages E-1, and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



*J. Gascon*  
6/9/06

NOA No 06-0130.04  
Expiration Date: June 29, 2011  
Approval Date: June 29, 2006  
Page 1

**Hurd Windows & Doors, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

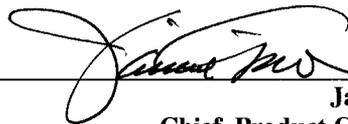
1. Manufacturer's die drawings and sections.
2. Drawing No **1404**, Sheets 1 through 4 of 4, titled "Feel Safe Aluminum Clad Wood Impact Fixed Casement Window, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 07/21/05, signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS**

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad casement windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-52274.04-602-18**, dated 07/07-28/04, signed and sealed by Joseph A. Reed, P.E
2. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad fixed wood window, prepared by Architectural Testing, Inc., Test Report No. **ATI-57726.01-201-44**, dated 07/07-28/04, signed and sealed by Joseph A. Reed, P.E
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad fixed and casement stationary windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-58961.01-602-18**, dated 7/28/05, signed and sealed by Joseph A. Reed, P.E

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 05/25/06, signed and sealed by Warren W. Schaefer, P.E.  
**Complies with ASTM E1300-02**



Jaime D. Gascon  
Chief, Product Control Division  
NOA No 06-0130.04  
Expiration Date: June 29, 2011  
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**Hurd Windows & Doors, Inc.**

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**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. 03-0415.13, issued to OldCastle Glass for "Stormglass Laminated Glass" dated 12/11/03, expiring on 12/18/08.
2. Notice of Acceptance No. **06-0216.06**, issued to Solutia, Inc. for "Clear or Colored Interlayer" dated 01/08/04, expiring on 05/21/06

**F. STATEMENTS**

1. Statement letter of compliance issued by W. W. Schaefer Engineering & Consulting, P.A., dated January 24, 2006, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest issued by W. W. Schaefer Engineering & Consulting, P.A., dated January 24, 2006, signed and sealed by Warren W. Schaefer, P.E.

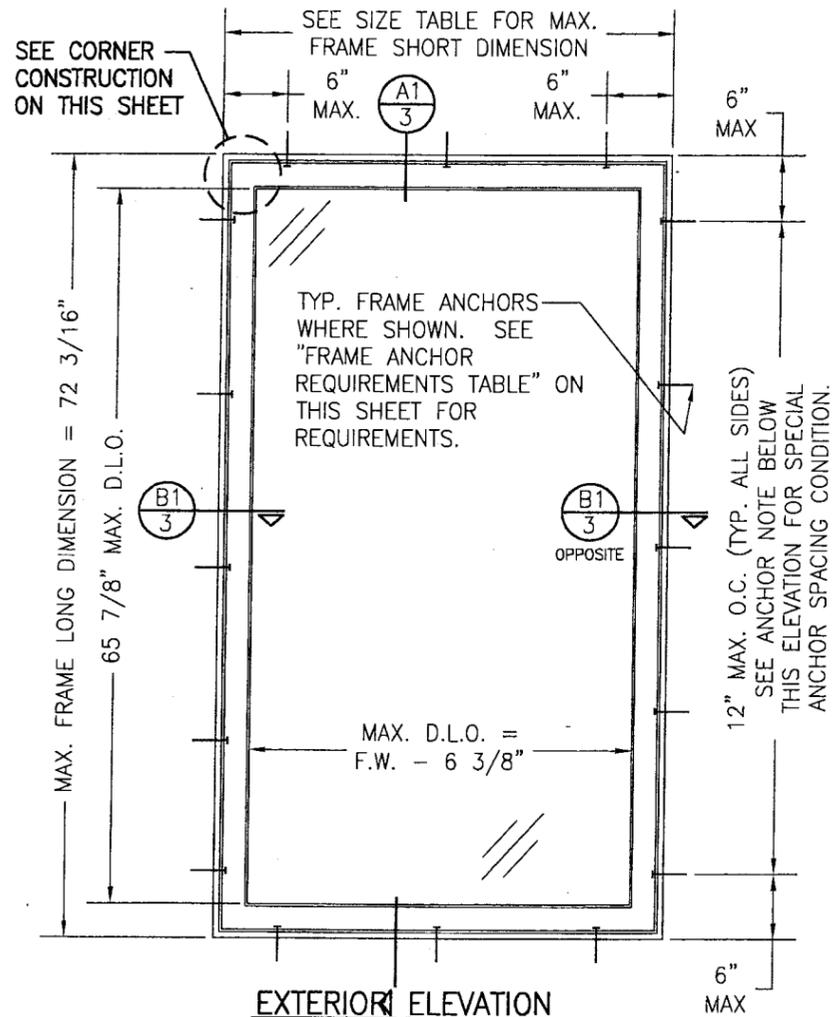
**G. OTHER**

1. Letter from consultant, dated 05/30/06, stating that the product is in compliance with the Florida Building Code (FBC).



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**Jaime D. Gascon**  
Chief, Product Control Division  
NOA No 06-0130.04  
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**EXTERIOR ELEVATION  
SINGLE WINDOW  
(FRAME SCREW MOUNT)**

SCALE: 3/4"=1'-0"

**ANCHOR NOTE:**  
WHEN REQUIRED DESIGN PRESSURE IS 70 PSF OR LESS  
& WINDOW SHORT SIDE FRAME DIMENSION IS 49" OR  
LESS, ANCHOR SPACING MAY BE INCREASED TO 15" O.C.

**GENERAL NOTES**

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE" 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. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH & MEET THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE (F.B.C.) INCLUDING HVHZ (HIGH VELOCITY HURRICANE ZONES).
5. THESE WINDOWS HAVE BEEN TESTED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE PROTOCOLS TAS-201, TAS-202 & TAS-203.
6. THESE WINDOW SYSTEMS ARE LARGE MISSILE IMPACT RATED & NEED NOT BE SHUTTERED.
7. ALL WINDOW SIZES SPECIFIED AS ALLOWABLE ARE AS CONTROLLED BY THE TESTED UNITS.
8. GLASS SHALL BE AS SPECIFIED IN THE GLAZING DETAIL(S).
9. ALL FRAME ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
10. ALL ANCHOR EMBEDMENTS SPECIFIED SHALL BE BEYOND WALL FINISHES.
11. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BUILDING CODE SECTION 2003.8.4.

**CORNER CONSTRUCTION:**

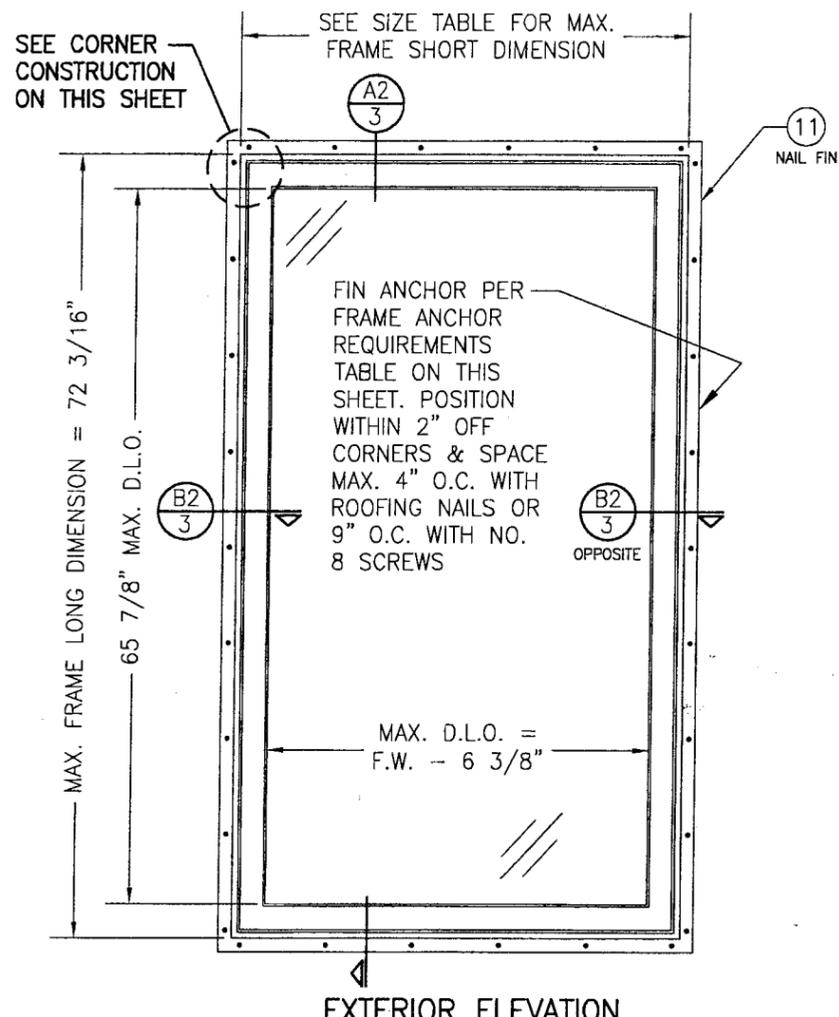
- WOOD FRAME:** SQUARE CUT, RABBETED, SILICONE SEALED & SECURED WITH THREE (3) 16 GA. X 1/2" X 2" CROWN STAPLES.
- FRAME CLAD:** MITER CUT, JOINED WITH A CORNER KEY & TWO (2) NO. 7 X 1/2" SCREWS & SEALED WITH A FOAM GASKET.
- WOOD SASH:** MORTISE & TENON CONSTRUCTION AND SECURED WITH TWO (2) 14 GA. X 2 1/2" T-NAILS.
- SASH CLAD:** SQUARE CUT, BUTTED TOGETHER AND SNAP FIT TO SASH AND SEALED WITH SILICONE.

ALLOWABLE WINDOW SIZE TABLE		
MAX. FRAME LONG DIMENSION	MAXIMUM FRAME SHORT DIMENSION	
	GLASS OPTION 1	GLASS OPTION 2
72 3/16"	36 3/16"	60 3/16"

SEE GLAZING DETAILS FOR GLASS OPTIONS.  
NOTE: STRETCHING OF WINDOW SIZES WITHIN THE AREAS TESTED MAY BE ACCEPTABLE UPON SEPARATE REVIEW BY A LICENSED FLORIDA ENGINEER.

FRAME ANCHOR REQUIREMENTS TABLE			
FRAME SCREW MOUNT			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 10 SMS SCREW	1 1/4"	3/4"
CMU/CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"
FIN MOUNT			
2X_ WOOD FRAME OR BUCK	NO. 8 X 1 1/4" SMS SCREWS	1 1/8"	1/2"
2X_ WOOD FRAME OR BUCK	11 GA. X 2" ROOFING NAILS	1 3/4"	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).



**EXTERIOR ELEVATION  
SINGLE WINDOW  
(FIN MOUNT)**

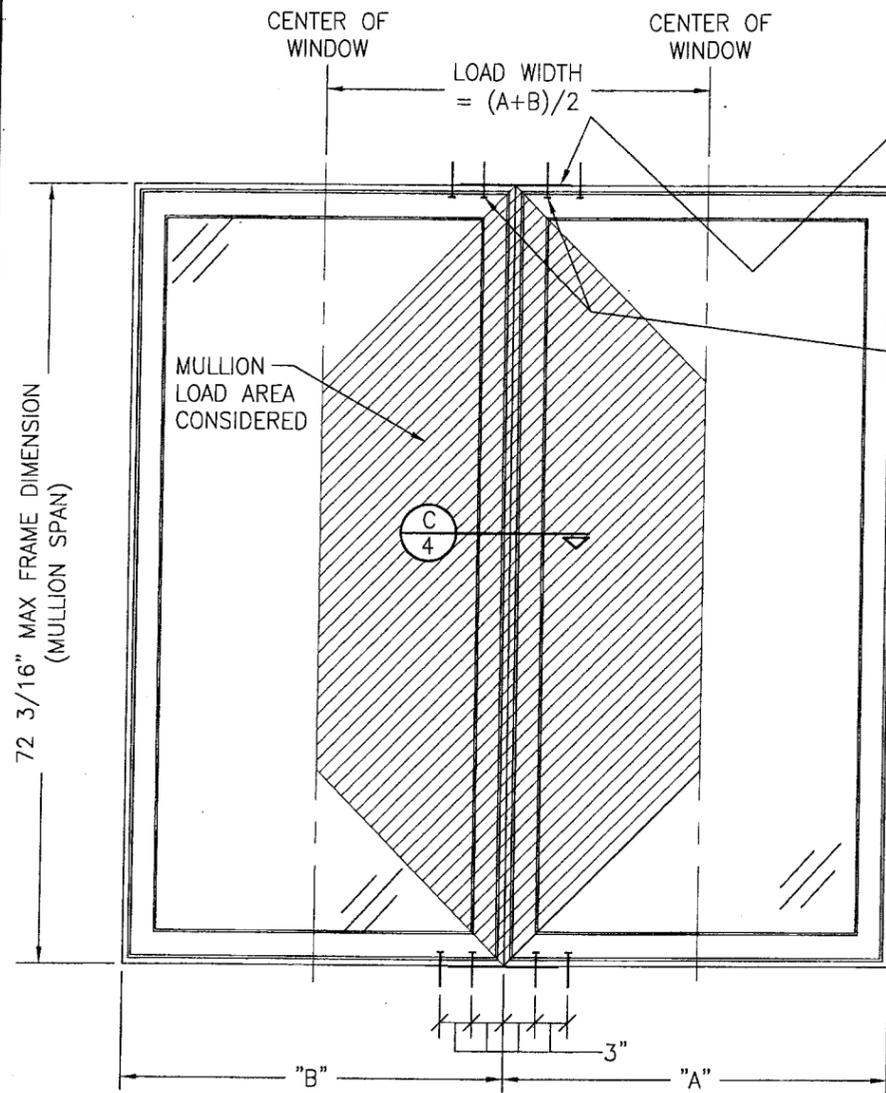
SCALE: 3/4"=1'-0"

ALLOWABLE DESIGN PRESSURE (SINGLE & MULTIPLE WINDOWS)			
GLASS OPTIONS	MAXIMUM WINDOW FRAME AREA (F.W. X F.H.)	POSITIVE	NEGATIVE
1	18.14 SF	65 PSF	70 PSF
2	20.14 SF	65 PSF	85 PSF
2	30.17 SF	65 PSF	70 PSF

F.W. = FRAME WIDTH  
F.H. = FRAME HEIGHT

Approved as complying with the Florida Building Code  
Date 06/29/06  
NOAH 06-0130-04  
Miami Dade Product Control Division  
By *[Signature]*

DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 7/21/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE <b>FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW</b>	
MANUFACTURER <b>HURD WINDOWS &amp; DOORS, INC.</b> 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING TITLE <b>FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW</b>	
CERTIFICATION <b>MAY 25 2006</b>	
DRAWING NO. <b>1404</b>	REV.
SHEET NO. <b>1 OF 4</b>	



**EXTERIOR ELEVATION  
MULTIPLE FIXED WINDOWS**

SCALE: 3/4"=1'-0"

(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)  
(DOUBLE WINDOW SHOWN. MORE THAN 2 WINDOWS MAY BE MULLED TOGETHER IN ONE DIRECTION INTO ONE OPENING.)  
NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL

**MULTIPLE UNIT NOTES:**

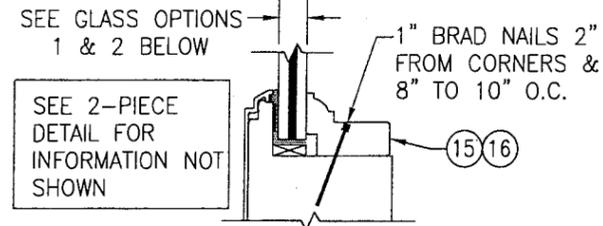
1. THE MAXIMUM ALLOWABLE PRESSURE FOR A COMBINED UNIT IS RESTRICTED BY THE LESSER OF THE INDIVIDUAL WINDOW ALLOWABLE PRESSURE OR THE ALLOWABLE MULLION PRESSURE. SEE MULLION LOAD TABLE ON THIS SHEET FOR ALLOWABLE UNIT PRESSURE.
2. WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. (IF VERTICALLY STACKED, MANUFACTURER MUST INSURE THAT THE DEAD WEIGHT OF THE WINDOWS DOES NOT CAUSE ANY WINDOW FAILURES OR DEFORMATIONS)

25 GA. X 2 3/8" X 10 1/4" GALVANIZED MULLION END REINFORCEMENT PLATE STAPLED TO EACH JAMB WITH FIVE (5) 16 GA. X 7/16" X 9/16" LONG STAPLES. (TYP. EACH END OF EACH MULLION)

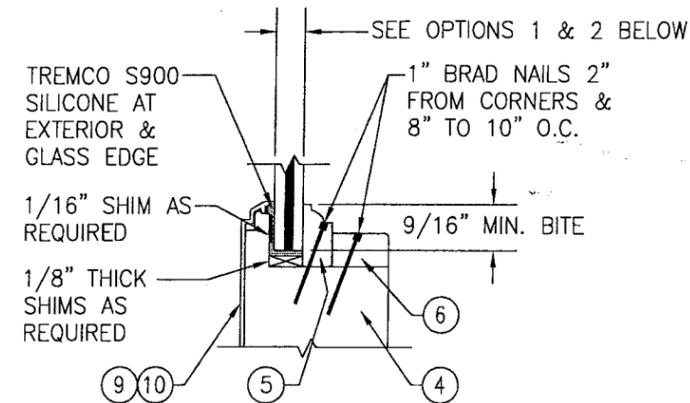
NO. 10 SCREWS PER FRAME ANCHOR REQUIREMENTS TABLE. FOUR (4) TOTAL PER MULLION END WHETHER WINDOW IS SCREW MOUNTED OR FIN MOUNTED.

ALLOWABLE PRESSURE (MULLED UNITS)			
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (P.S.F.)	
		POSITIVE	NEGATIVE
72	60	61.8	66.5
	54	65	70
66	66	65	70
60	72	65	70
60	48	65	85

LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.  
LOAD WIDTH VALUES ARE +/- 1/2"



**GLAZING DETAIL WITH  
1-PIECE GLAZING BEAD**



**GLAZING DETAIL WITH  
2-PIECE GLAZING BEAD**

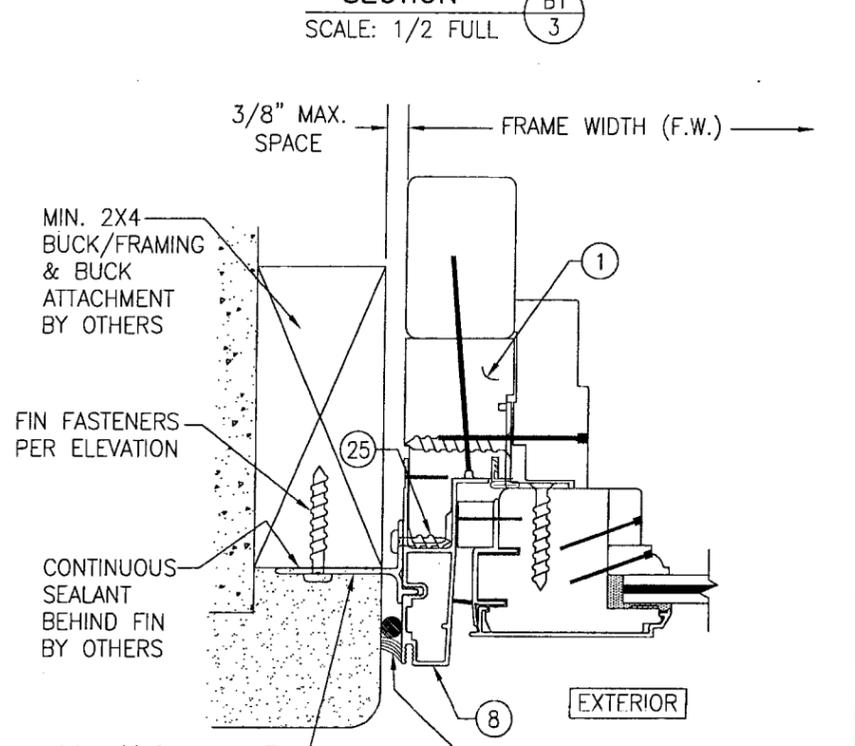
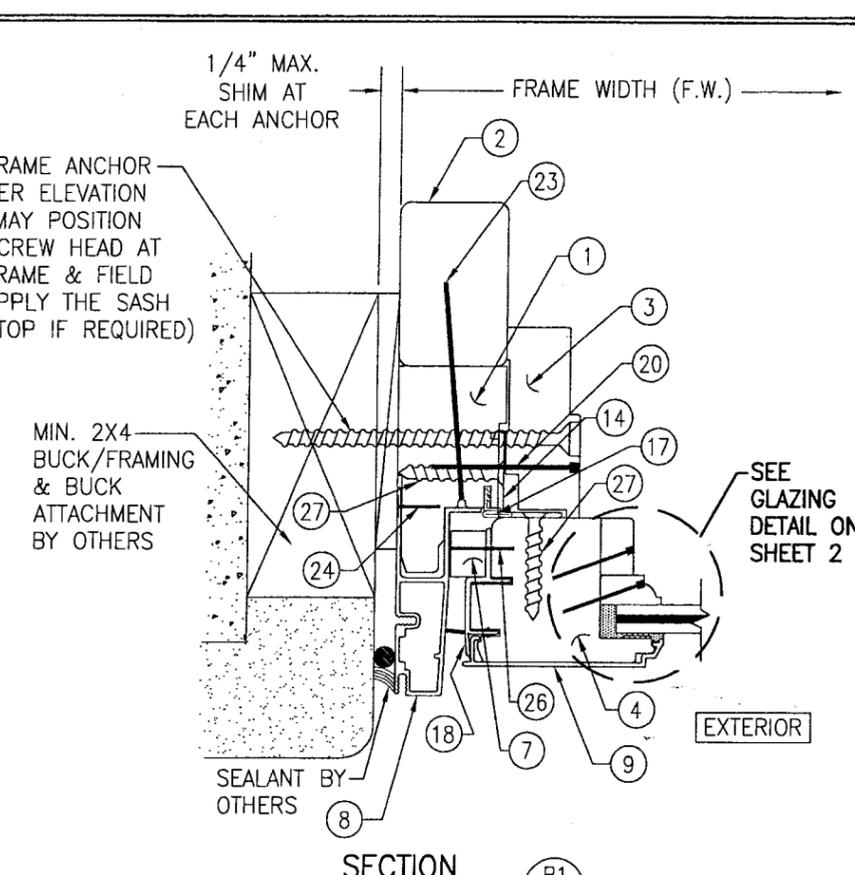
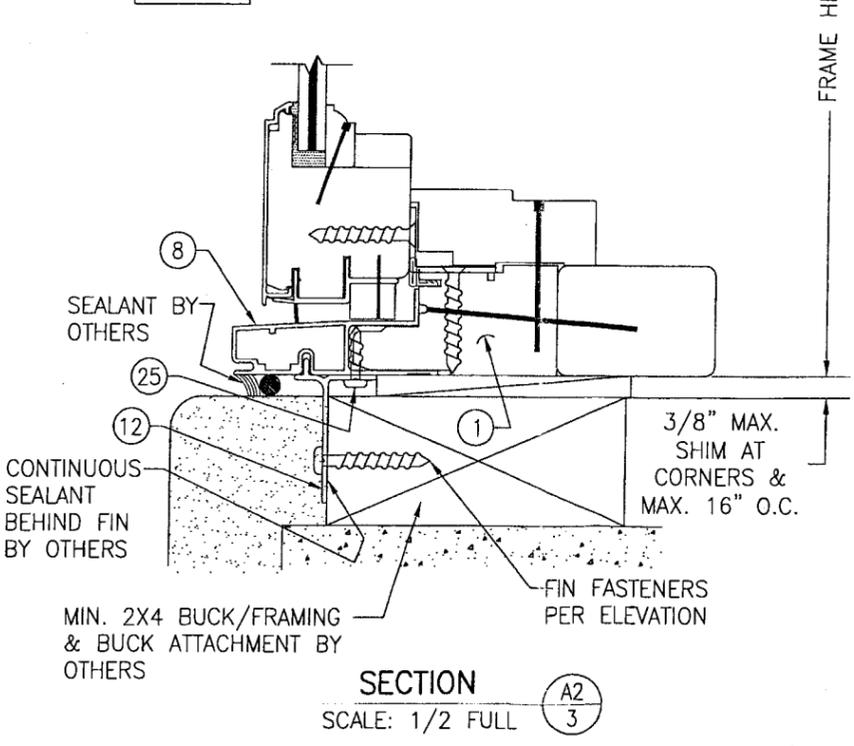
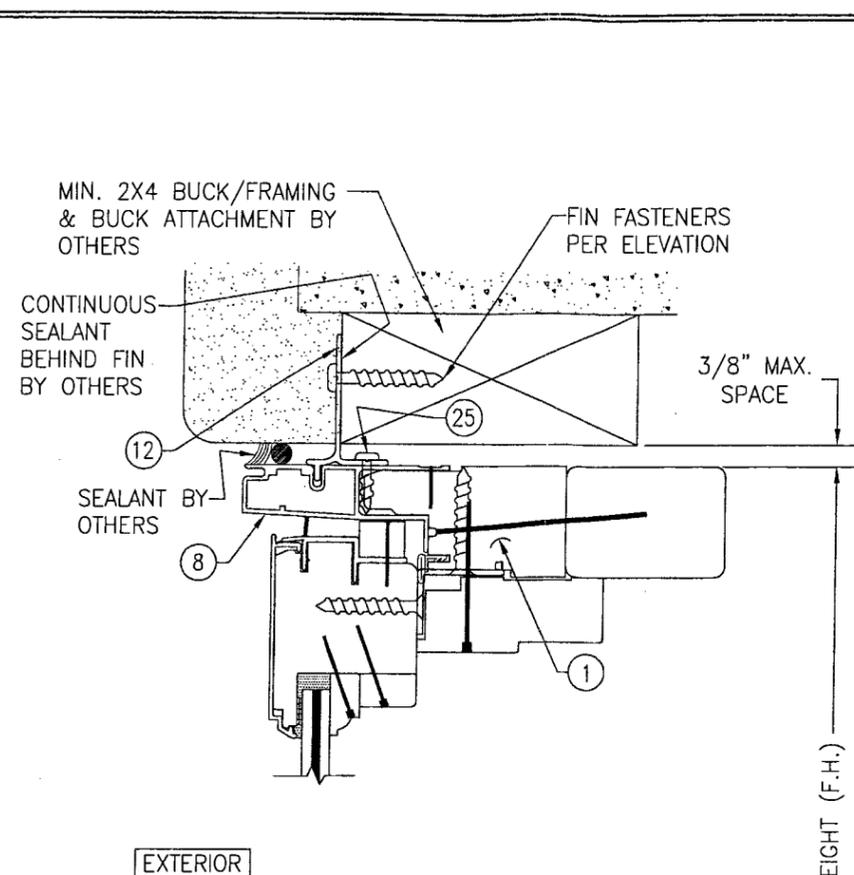
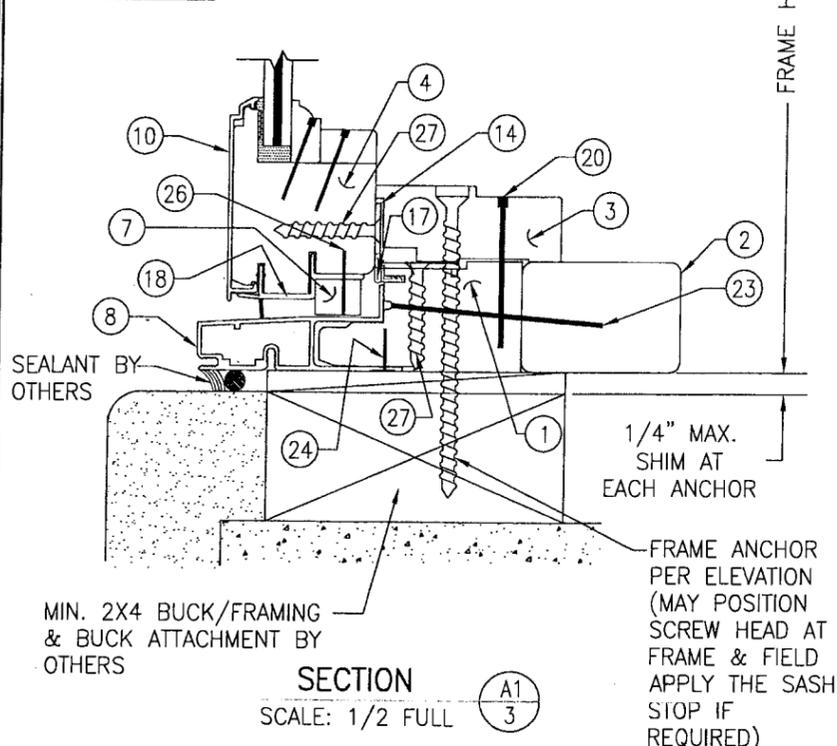
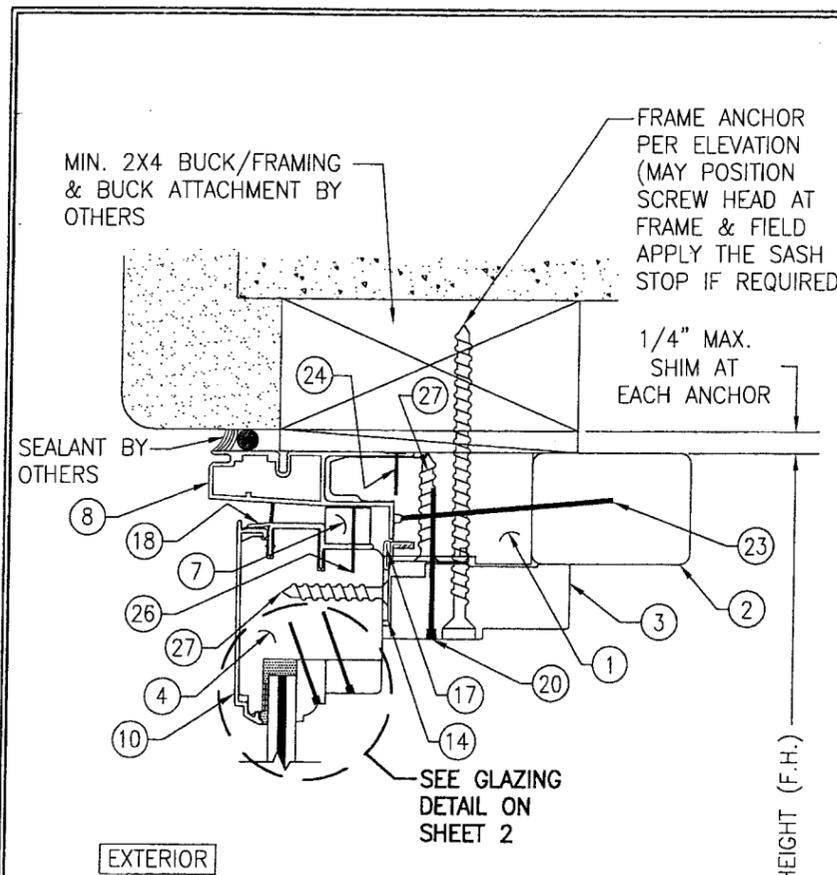
OPTION 1: 3/8" LAMINATED GLASS BY OLDCASTLE (5/32" AN/0.09 SOLUTIA SAFLEX IIIIG PVB/5/32" AN). SEE NOTE BELOW.

OPTION 2: 9/16" LAMINATED OLDCASTLE STORMGLASS (1/4" AN/0.075 OLDCASTLE STORMGLASS/1/4" AN). SEE NOTE BELOW.

NOTE: OPTION 1 GLASS IS APPLICABLE WITH WINDOWS THAT HAVE A SHORT SIDE FRAME DIMENSION OF 36 3/16" OR LESS & OPTION 2 GLASS IS APPLICABLE WITH ALL WINDOW SIZES.

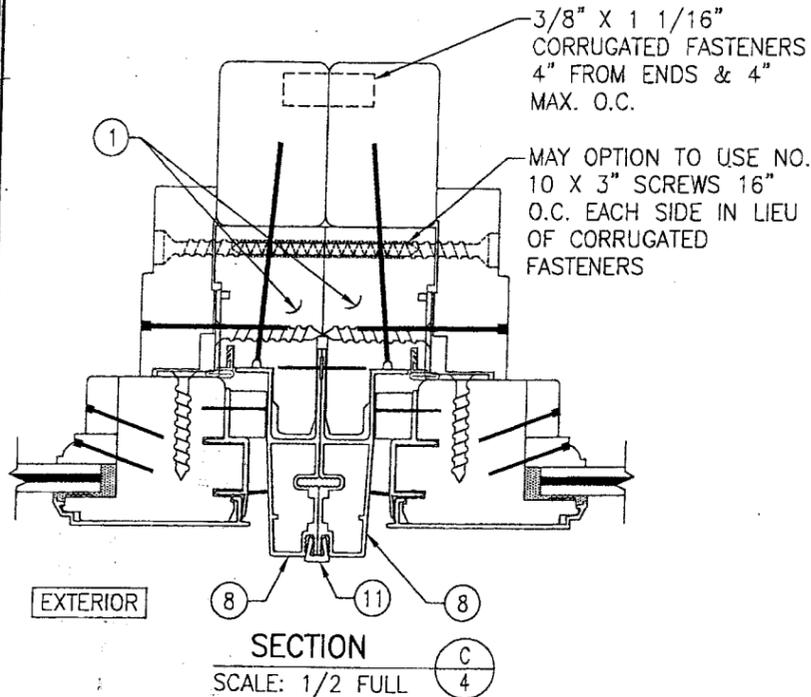
Approved as complying with the Florida Building Code  
Date 06/29/06  
NOA# 06-0130.04  
Miami Code Product Control Division  
By [Signature]

DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 7/21/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER <b>HURD WINDOWS &amp; DOORS, INC.</b> 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CERTIFICATION MAY 25 2006	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1404	REV.
SHEET NO. 2	OF 4

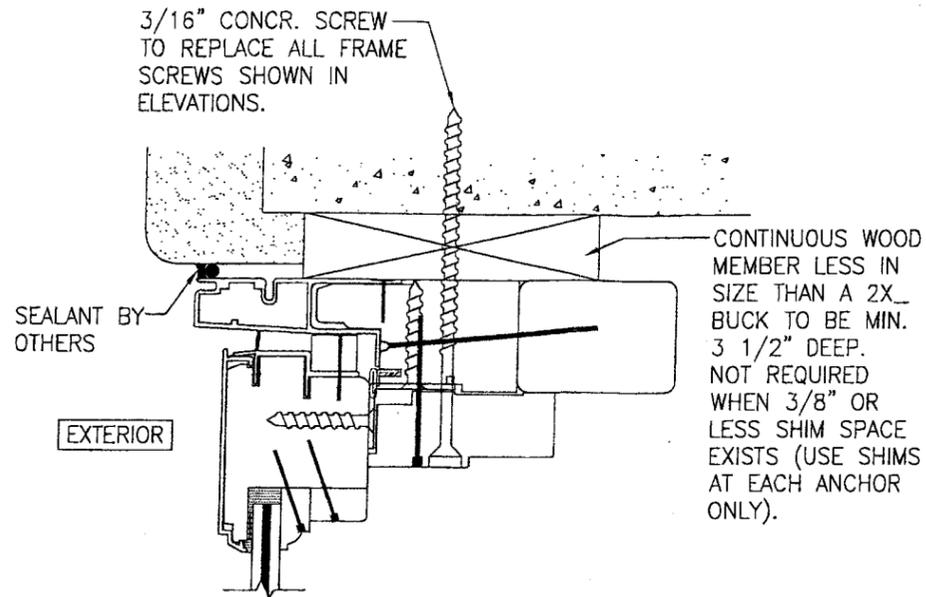


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 By [Signature]

DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 7/21/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW			
MANUFACTURER: HURD WINDOWS & DOORS, INC. 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873			
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CERTIFICATION: MAY 25 2006 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1404		REV.	
SHEET NO. 3		OF 4	



(SEE SECTION B1/3 FOR DETAILS NOT SHOWN)

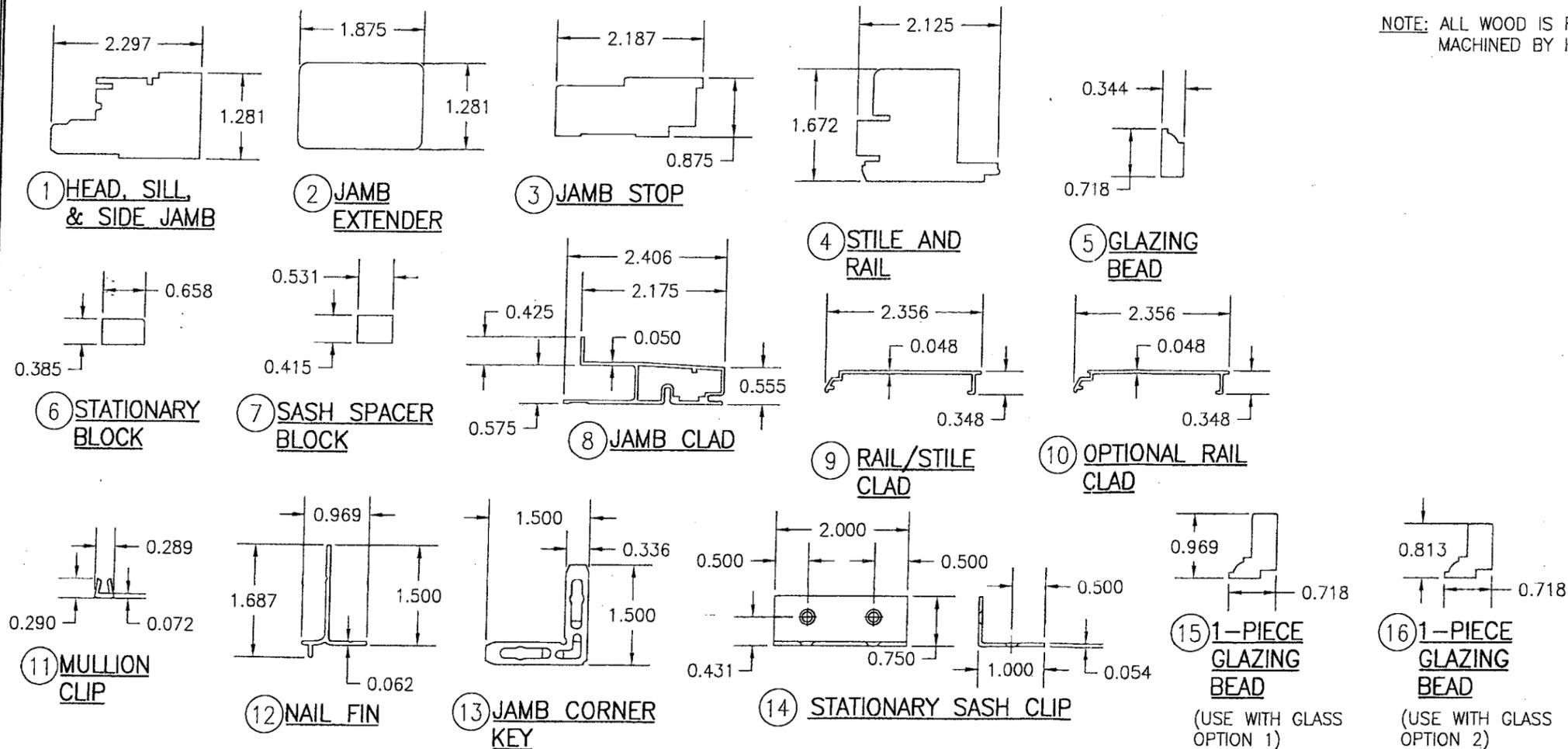


OPTIONAL DIRECT MOUNT DETAIL TO BLOCK OR CONCRETE WITH SPACER OR SHIM  
HEAD SECTION SHOWN, SIDES AND SILL SIMILAR

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	CCSE 223	HEAD, SILL, & SIDE JAMB	* PONDEROSA/SUGAR PINE
2	CCSE 225	JAMB EXTENDER	* PONDEROSA/SUGAR PINE
3	HC 155	JAMB STOP	* PONDEROSA/SUGAR PINE
4	ECSE 200	STILE AND RAIL	* PONDEROSA/SUGAR PINE
5	ALWD 375	GLAZING BEAD	* PONDEROSA/SUGAR PINE
6	300-0025	STATIONARY BLOCK	* PONDEROSA/SUGAR PINE
7	CCSE 300	SASH SPACER BLOCK	* PONDEROSA/SUGAR PINE
8	CCSE 440	JAMB CLAD	6063-T6 ALUMINUM
9	ECSE 400	RAIL/STILE CLAD	6063-T5 ALUMINUM
10	ECSE 405	OPTIONAL RAIL CLAD	6063-T5 ALUMINUM
11	PA 115	MULLION CLIP	6060-T5 ALUMINUM
12	-	NAIL FIN	6063-T6 ALUMINUM
13	CCSE 620	JAMB CORNER KEY	NYLON 66 MATERIAL
14	-	STATIONARY SASH CLIP	5" FROM CORNERS & 10" O.C.
15	216273	1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
16	216275	1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
SEALS AND SEALANTS			
17	020546	FRAME WEATHERSTRIP	GREY SANTOPRENE FOAM
18	ECSE 625	SASH WEATHERSTRIP	VINYL
FASTENERS			
20	092748	13 GA. 1 1/2" RING SHANK NAIL	4" FROM CORNERS & 6" TO 12" O.C.
23	024617	2 1/2" X 1" CROWN STAPLE	2" FROM CORNERS & 10" O.C.
24	019892	#18 X 1/2" GSN STAPLE	2" FROM CORNERS & 7" TO 10" O.C.
25	-	#6 X 5/8" PH SCREW	2" FROM CORNERS & 9" O.C.
26	-	18 GA. X 3/4" STAPLE	1 PER SPACER BLOCK
27	-	#8 X 1 1/4" S.S. SMS	2 PER CLIP

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

NOTE: ALL WOOD IS RECEIVED BY HURD MILLWORK AS GRADE 2, BUT IS MACHINED BY HURD TO A SELECT GRADE USE.



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Date 06/29/06  
NOA# 06-0130.04  
Miami-Dade Product Control Division  
By *[Signature]*

DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW	DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
	DATE: 1=2	DATE: 7/21/05
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	REVISION DESCRIPTION	NO.
	MANUFACTURER HURD WINDOWS & DOORS, INC. 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CERTIFICATION MAY 2 2006		
DRAWING NO. 1404	REV.	
SHEET NO. 4 OF 4		