



**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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

**Luxbau, LLC
2400 Centrepark West Dr.
Suite # 150
West Palm Beach, FL 33409**

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 "Lüxbaum Windows & Doors Double" Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1190, titled "Luxbaum Windows & Doors Wooden Double Casement Window System", sheets 1 through 5 of 5, dated 12/12/02 with revision B1 dated 04/20/09, prepared by W.W. Schaefer Engineering & Consulting, 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 Resistant

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 # 08-0206.09 and 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 Gascon, P.E.**



*J Gascon
G. Talon*

NOA No. 09-0422.06
Expiration Date: May 29, 2013
Approval Date: July 1, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No 1190, Sheets 1 through 5 of 5, titled "Luxbau Windows & Doors Wooden Double Casement Window System", dated 12/12/02 with revision B1 dated 04/20/09, prepared by W.W. Schaefer Engineering & Consulting, 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, TAS 202-94

Along with marked-up drawings and installation diagram of wooden slim European door system, prepared by Hurricane Test Laboratory, Test Report No. **HTL-0271-0406-05**, dated 05/25/05 signed and sealed by Vinu J. Abraham, P.E.

2. 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, TAS 202-94

Along with marked-up drawings and installation diagram of a wood casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL 0271-1204-02** dated 1/29/2003, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA# 08-0206.09"

3. Test reports on:
 - 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of a wood casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL 0271-0215-03** dated 08/28/1002, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA# 08-0206.09"



Jaime Gascon, P.E.

Product Control Examiner

NOA No. 09-0422.06

Expiration Date: May 29, 2013

Approval Date: July 1, 2009

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (Continued)

4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of a wood casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL 0271-0836-02** dated 08/28/1002, signed and sealed by Vinu J. Abraham, P.E.
"Submitted under NOA# 08-0206.09"

5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of a wood casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL 0271-0717-02** dated 07/24/1002, signed and sealed by Vinu J. Abraham, P.E.
"Submitted under NOA# 08-0206.09"

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 01/14/2003 with the latest revision, dated 02/26/2008, signed and sealed by Warren Schaefer, P.E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.

F. STATEMENTS

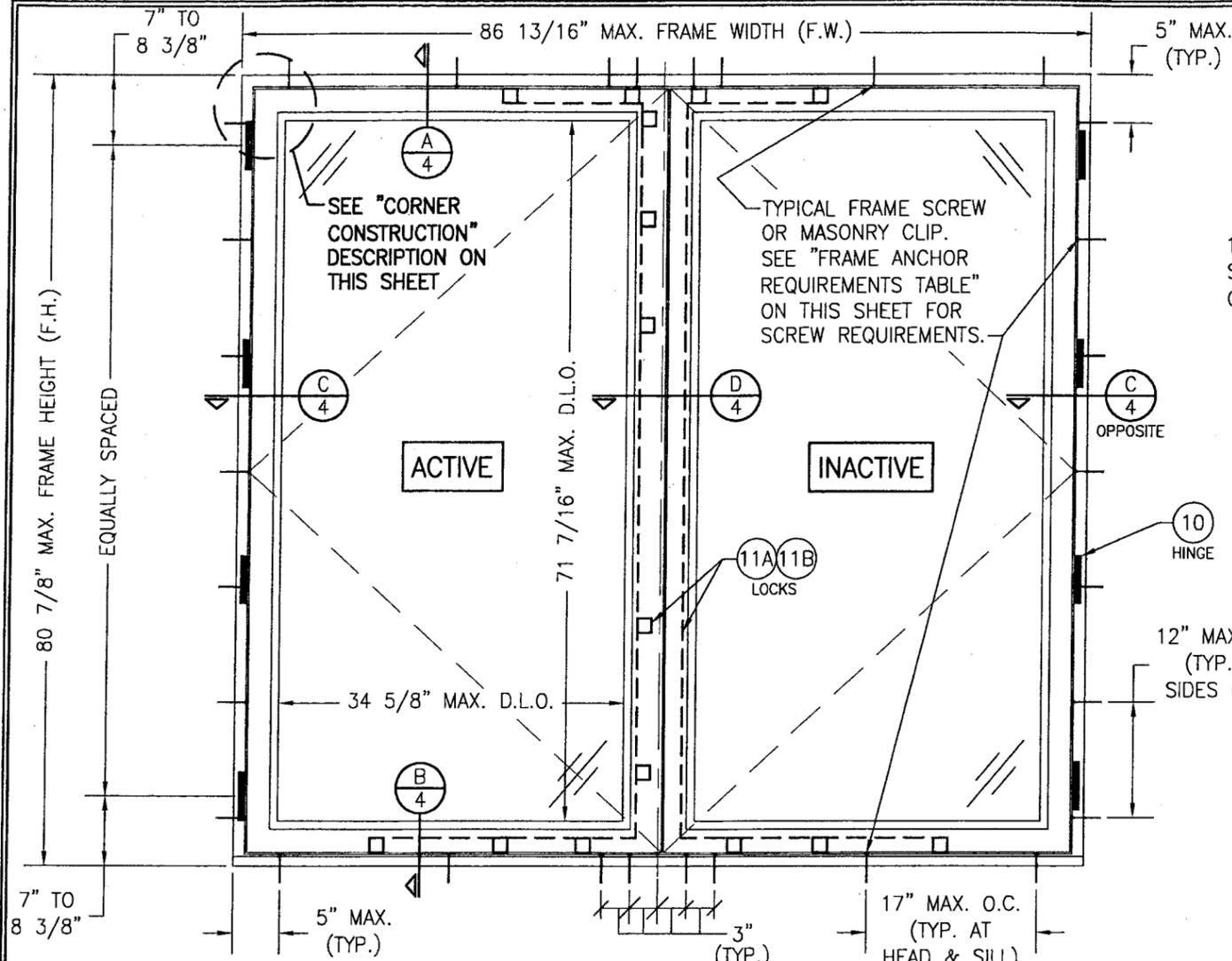
1. Statement letter of conformance, dated February 26, 2008, signed and sealed by Warren W. Schaefer, P.E.
2. Addendum letter for Test Report no. **HTL- 0271-0406-05**, issued by Hurricane Test Laboratory, Inc., dated December 6, 2006, signed by Vinu J. Abraham, P.E.
3. Laboratory compliance letter for Test Report no. **HTL-0271-0717-02, 0271-0215-03, 0271-0836-02 and 0271-1204-02**, issued by Hurricane Test Laboratory, Inc., dated March 21, 2003, signed and sealed by Vinu J. Abraham, P.E.

G. OTHERS

1. Notice of Acceptance No. **08-0206.09**, issued to Luxbau, LLC. for their Series "**Luxbaum Windows & Doors Double**" Wood Casement Window – **L.M.I.** approved on 05/08/08 and expiring on 05/29/13.


Jaime Gascon, P.E.

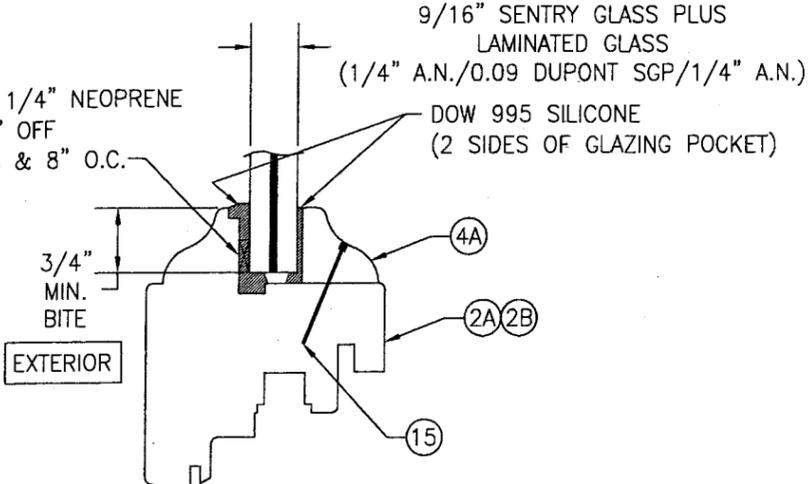
Product Control Examiner
NOA No. 09-0422.06
Expiration Date: May 29, 2013
Approval Date: July 1, 2009



**EXTERIOR ELEVATION
DOUBLE WINDOW UNIT**
SCALE: 3/4"=1'-0"

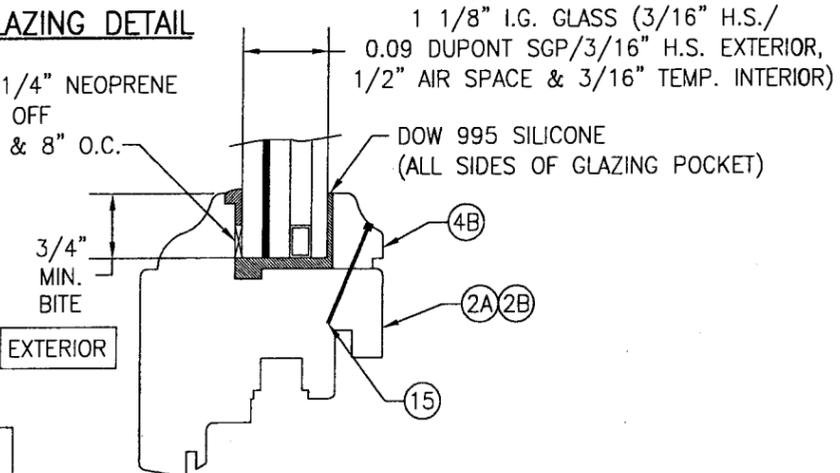
CORNER CONSTRUCTION

JAMB CORNERS: VERTICAL JAMB ENDS ARE COPED AND BUTTED TO HORIZONTAL JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 1/2" DIA. x 3 5/16" LONG MERBAU WOOD DOWELS.
SASH CORNERS: HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (2) 1/2" DIA. x 3 7/16" AND (1) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.



NON-I.G. GLAZING DETAIL

1/16" x 1/4" NEOPRENE SHIMS 1" OFF CORNERS & 8" O.C.



I.G. GLAZING DETAIL

TOP LOCK		SIDE LOCK		BOTTOM LOCK	
MAXIMUM PANEL WIDTH (IN.)	NO. LOCK POINTS REQ'D	MAXIMUM PANEL HEIGHT (IN.)	NO. LOCK POINTS REQ'D	MAXIMUM PANEL WIDTH (IN.)	NO. LOCK POINTS REQ'D
33	1	41	2	20	1
42	2	57	3	35	2
		78	4	42	3

FRAME HEIGHT	NO. OF HINGES REQUIRED
OVER 57"	4
33" TO 57"	3
LESS THAN 33"	2

OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 12 SMS SCREW	1 1/4"	1"
CMU/CONCRETE	(1) 1/4" CONCRETE SCREWS	1 1/4"	2 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.).

POSITIVE	NEGATIVE
65 PSF	70 PSF

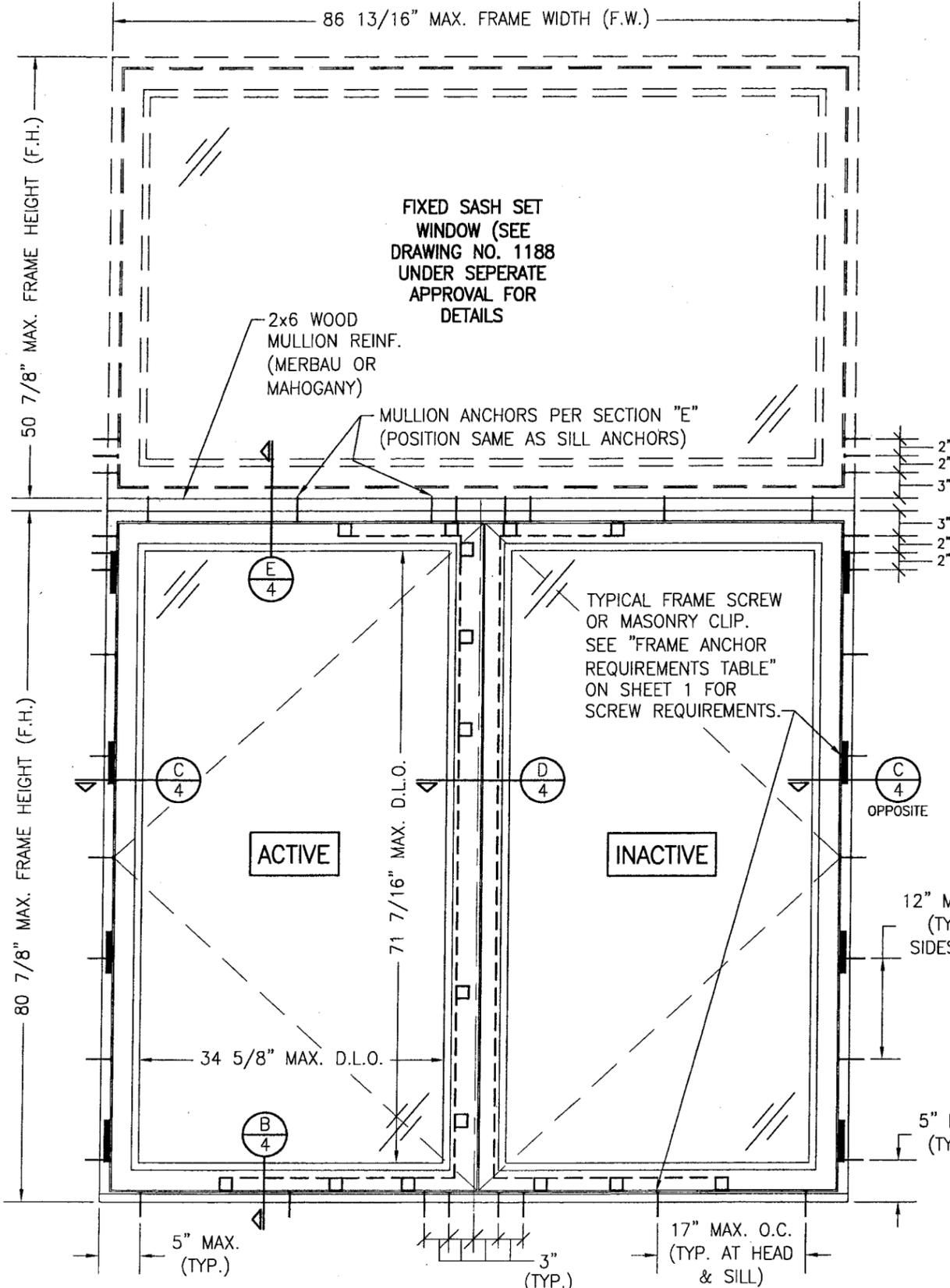
* ANCHOR NOTE: FRAME MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A CONTINUOUS WOOD SPACER, OR ANCHORED TO A MIN. 2x4 NO. 3 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED TO A 2x4 BUCK, NO. 12 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 1/4" CONCRETE SCREW SHALL BE USED. SEE "ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS.

GENERAL NOTES:

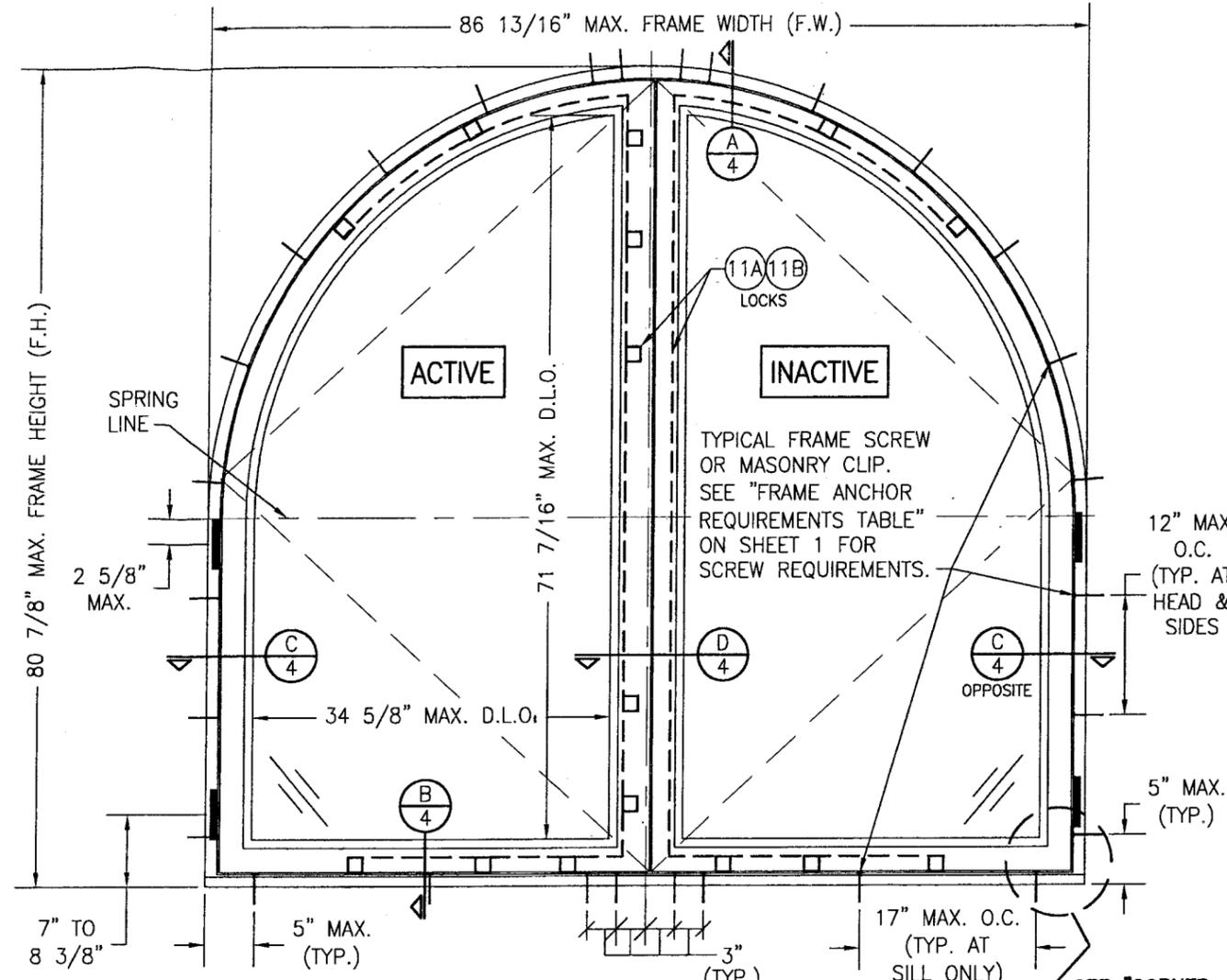
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL 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.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 09-0422.06
Expiration Date MAY 29, 2013
By *[Signature]*
Miami Dade Product Control Division

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
DATE: 04/11/08	DATE: 12/12/02
BY: W.R.M.	BY: W.R.M.
REVISION DESCRIPTION: A1 UPDATE TO CODE COMPLIANCE	NO. 1
B1 ADDED I.G. GLASS	NO. 2
DRAWING TITLE: LUXBAUM WINDOWS & DOORS WOODEN DOUBLE CASEMENT WINDOW SYSTEM	
MANUFACTURER: LUXBAUM, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION: APR 10 2009	DRAWING NO. 1190 SHEET NO. 1 OF 5



**EXTERIOR ELEVATION
DOUBLE WINDOW UNIT WITH TRANSOM**
SEE DOUBLE WINDOW ELEVATION FOR DETAIL NOT SHOWN
SCALE: 3/4"=1'-0"

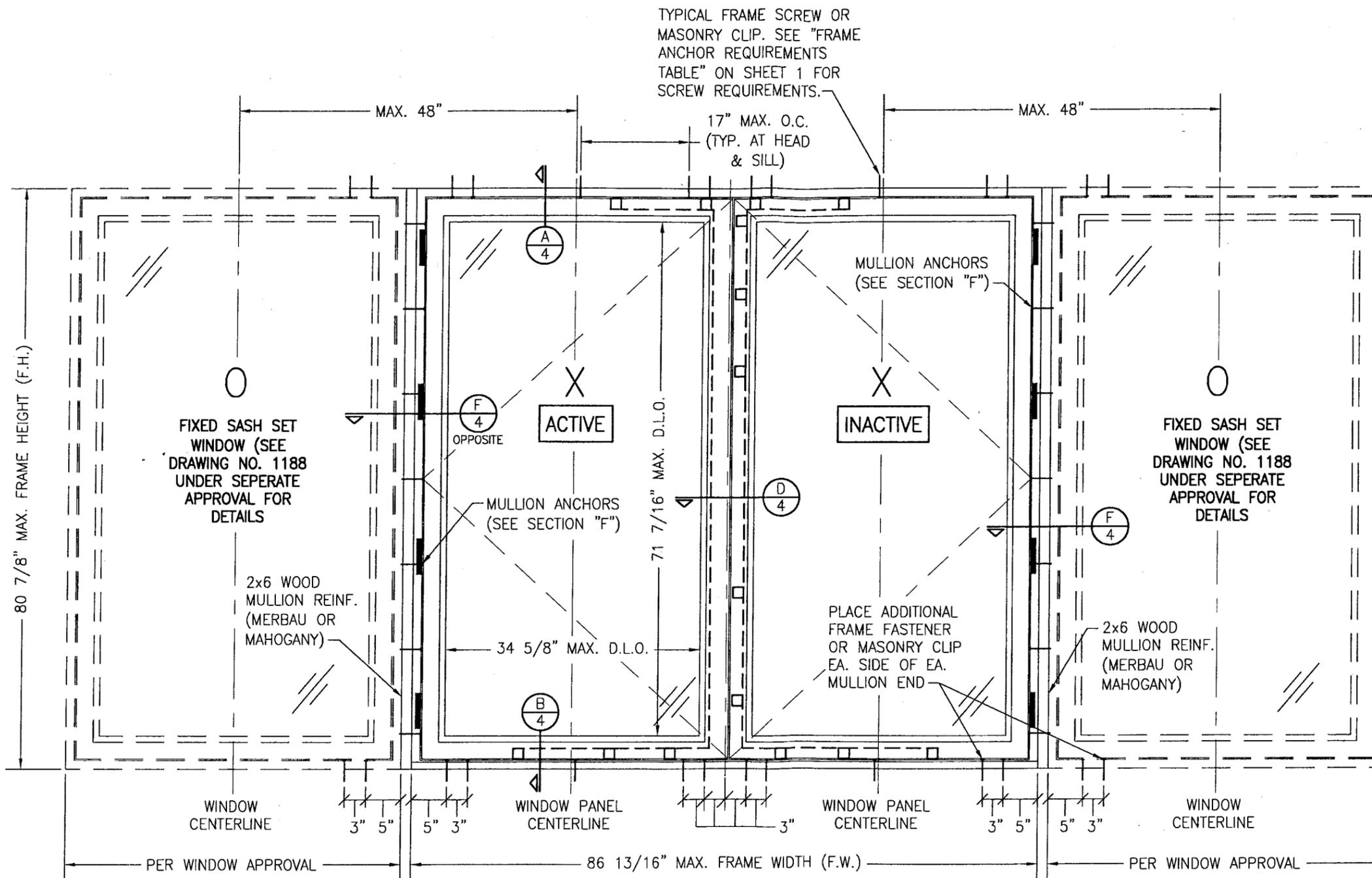


**EXTERIOR ELEVATION
DOUBLE HALF ROUND WINDOW UNIT**
SCALE: 3/4"=1'-0"
(EYEBROW TOP WINDOWS SHALL ALSO APPLY PROVIDING
CORNER CONSTRUCTION IS EQUAL TO THE RECTANGULAR UNIT)

SEE "CORNER
CONSTRUCTION"
DESCRIPTION
ON SHEET 1

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0422.06
Expiration Date MAY 29, 2013
By *[Signature]*
Miami Dade Product Control
Division

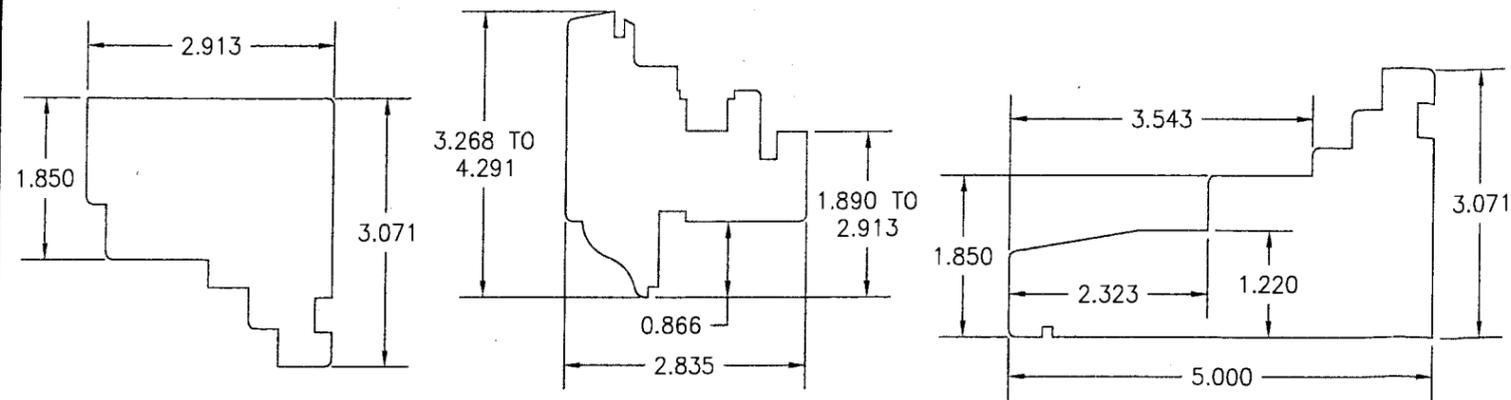
DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 12/12/02	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE LUXBAUM WINDOWS & DOORS WOODEN DOUBLE CASEMENT WINDOW SYSTEM		MANUFACTURER LUXBAU, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		CERTIFICATION APR 19 2009 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1190	REV. B	SHEET NO. 2 OF 5	



EXTERIOR ELEVATION
DOUBLE CASEMENT WINDOW UNIT WITH SIDE LIGHTS
 (MAX. FOUR UNITS MAY BE COMBINED)
 SEE DOUBLE WINDOW ELEVATIONS FOR DETAIL NOT SHOWN
 SCALE: 3/4"=1'-0"
 (OXXO UNIT SHOWN. TWO DOUBLE OPERABLE UNITS MAY ALSO BE MULLED TOGETHER WITH THE MULLION CONDITIONS SHOWN.)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 09-0422.06
 Expiration Date MAY 29, 2013
 By *[Signature]*
 Miami Dade Product Control
 Division

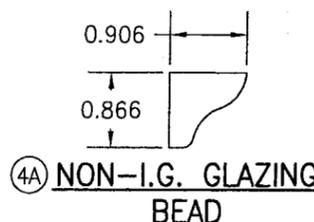
DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 12/12/02	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE LUXBAUM WINDOWS & DOORS WOODEN DOUBLE CASEMENT WINDOW SYSTEM		MANUFACTURER LUXBAUM, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		P.E. NO. 44135 WARREN W. SCHAEFER, P.E.	
CERTIFICATION	APR 19 2009	DRAWING NO.	REV.
		1190	B
		SHEET NO.	
		3	OF 5



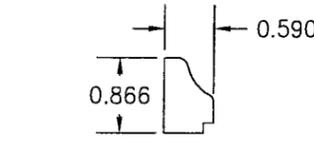
① HEAD & SIDE JAMB

②A/②B LARGE SASH & SMALL SASH

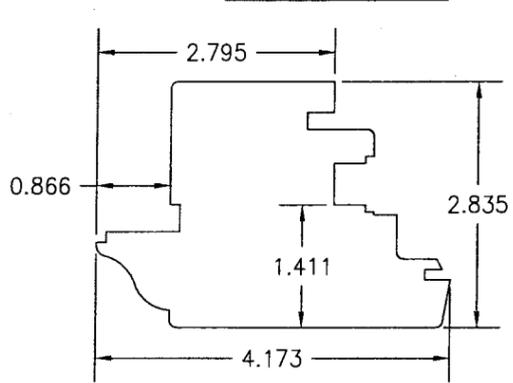
③ SILL JAMB



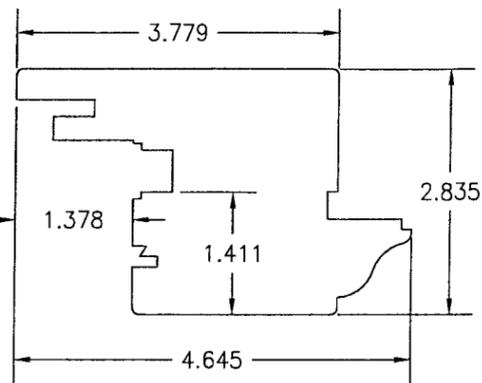
④A NON-I.G. GLAZING BEAD



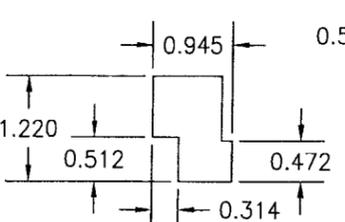
④B I.G. GLAZING BEAD



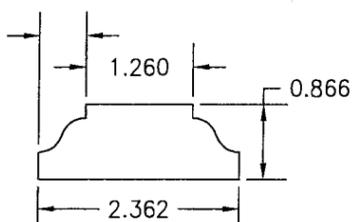
⑤ ACTIVE MEETING STILE



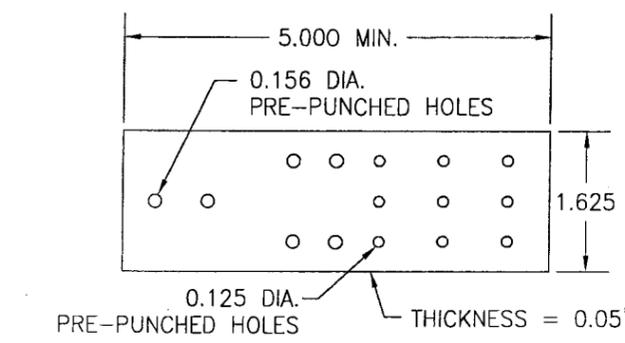
⑥ INACTIVE MEETING STILE



⑦ ASTRAGAL

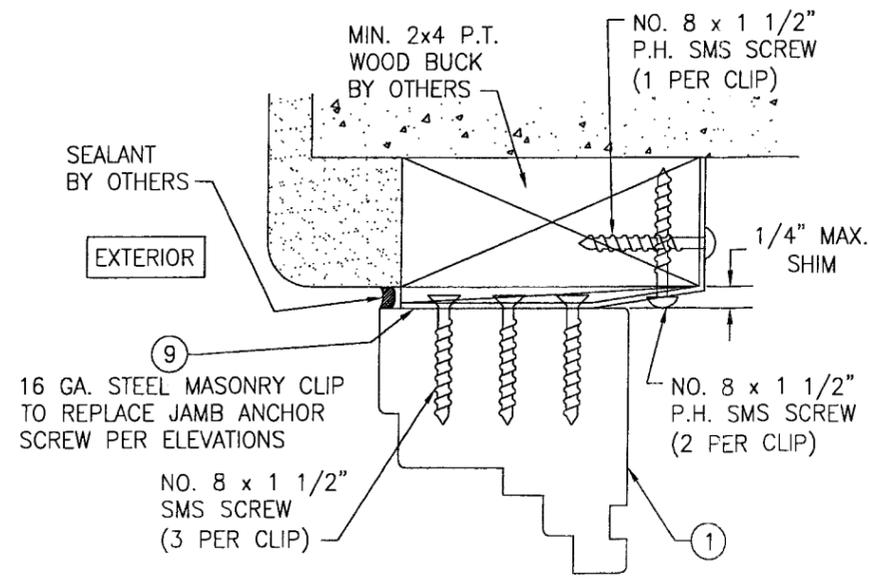


⑧ ASTRAGAL CAP



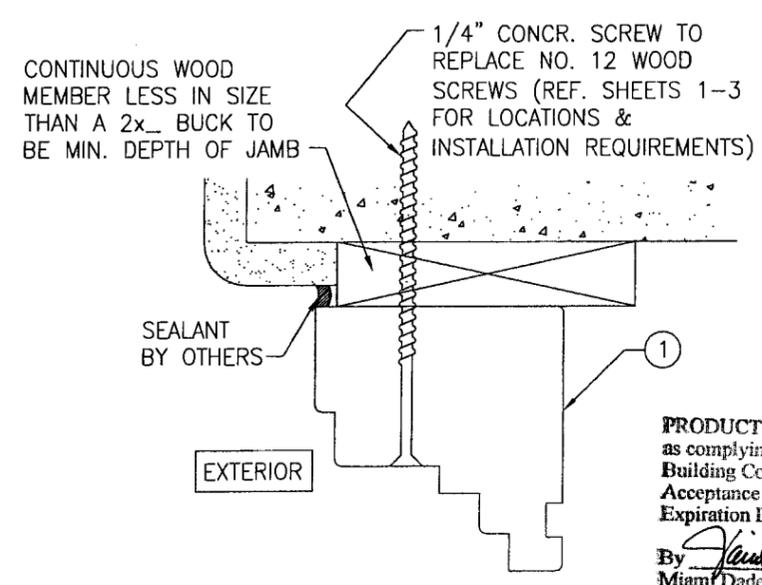
⑨ MASONRY CLIP

PRE-PUNCHED HOLES ARE ADDED FOR CLIPS LONGER THAN 5"



OPTIONAL MASONRY CLIP MOUNT DETAIL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS (HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)



OPTIONAL DIRECT MOUNT DETAIL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS (HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	7478	FRAME HEAD & SIDE JAMB	MIN. GR. 2 MERBAU OR MAHOGANY
2A	72109	LARGE SASH	MIN. GR. 2 MERBAU OR MAHOGANY
2B	7283	SMALL SASH	MIN. GR. 2 MERBAU OR MAHOGANY
3	78127	SILL JAMB	MIN. GR. 2 MERBAU OR MAHOGANY
4A	2223	NON-I.G. GLAZING BEAD	MIN. GR. 2 MERBAU OR MAHOGANY
4B	1522	I.G. GLAZING BEAD	MIN. GR. 2 MERBAU OR MAHOGANY
5	72106	ACTIVE MEETING STILE	MIN. GR. 2 MERBAU OR MAHOGANY
6	72118	INACTIVE MEETING STILE	MIN. GR. 2 MERBAU OR MAHOGANY
7	2431	ASTRAGAL	MIN. GR. 2 MERBAU OR MAHOGANY
8	2260	ASTRAGAL CAP	MIN. GR. 2 MERBAU OR MAHOGANY
9	-	1 5/8" WIDE x 0.05" THK. x MIN. 5" LONG MASONRY CLIP	ASTM A653 MIN. 33 KSI GALV. STEEL
10	5020-SM	HINGE	G-U HARDWARE
11A	6-25474-35-0-3	MULTI-POINT LOCK SET	G-U HARDWARE HWC-35
11B	3/45M5	MULTI-POINT LOCK SET	SIEGENIA NO. 3/45M5
SEALS AND SEALANTS			
12	SV-12/ACF-6950	COMPRESSION SEAL	DEVENTER/G-U
13	SV-33/ACF-4527	COMPRESSION SEAL	DEVENTER/G-U
MISCELLANEOUS FASTENERS			
15	-	1/4" x 1 1/4" BRAD NAIL	2" FROM CORNERS & 4" O.C.

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 12/12/02
NO.	REVISION DESCRIPTION
DATE	BY
DESCRIPTION	NO.
LUXBAUM WINDOWS & DOORS WOODEN DOUBLE CASEMENT WINDOW SYSTEM	
MANUFACTURER	
LUXBAUM, LLC 2400 CENTERPARK WEST DRIVE, SUITE 150 WEST PALM BEACH, FL 33409 561-684-1500	
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	
CERTIFICATION	APR 19 2009
PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 09-0422.06 Expiration Date MAY 29, 2013	
By <i>[Signature]</i> Warren W. Schaefer, P.E. Miami Dade Product Control Division	
DRAWING NO.	REV.
1190	B
SHEET NO.	
5	OF 5