



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

WinDoor, Inc.
7500 Amsterdam Drive
Orlando, FL 32832

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section 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 Section (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. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "4000" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **FEI0001**, titled "Series 4000 Single Hung Impact (LMI) Window", sheets 1 through 7 of 7, dated 07/06/11, with revision A dated 02/14/12, prepared by PTC, Product Design Group, LLC, signed and sealed by Robert James Amoruso, 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 Section.

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, model/series, 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 # 11-0815.11 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 **Manuel Perez, P.E.**



MP
5/23/12

NOA No. 12-0320.15
Expiration Date: November 18, 2014
Approval Date: May 31, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **FEI0001**, Sheets 1 through 7 of 7, titled "Series 4000 Single Hung Impact (LMI) Window", dated 07/06/11, with revision A dated 02/14/12, prepared by PTC Product Design Group, LLC, signed and sealed by Robert James Amoruso, 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 aluminum single hung window, specimens #SH-1 through #SH-6, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3567-1**, dated 10/24/08, signed and sealed by Gerard J. Ferrara, P.E.

(Submitted under previous NOA #09-0723.06)

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 aluminum single hung window, specimens #SH-9, #SH-10 and #SH-11 prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3568-1**, dated 10/24/08, signed and sealed by Gerard J. Ferrara, P.E.

(Submitted under previous NOA #09-0723.06)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by PTC, LLC, dated 5/19/09, signed and sealed by Robert James Amoruso, P.E.
(Submitted under previous NOA #11-0815.11)
2. Glazing complies with ASTM E1300-04


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0320.15
Expiration Date: November 18, 2014
Approval Date: May 31, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

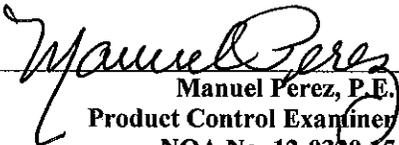
1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2007 and FBC-2010, and no financial interest, dated March 13, 2012, signed and sealed by Robert James Amoroso, P.E.
2. Laboratory compliance letters for Test Reports No. **NCTL-210-3567-1** and **NCTL-210-3568-1**, issued by National Certified Testing Laboratories, dated January 7, 2009, signed and sealed by Gerard J. Ferrara, P.E.
(Submitted under previous NOA #09-0723.06)

G. OTHERS

1. Notice of Acceptance No. **11-0815.11**, issued to WinDoor, Inc. for their Series "4000" Aluminum Single Hung Window – L.M.I., approved on 09/29/11 and expiring on 11/18/14.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0320-15
Expiration Date: November 18, 2014
Approval Date: May 31, 2012

WINDOOR, Inc.

IMPACT SERIES 4000 SH Window, LMI

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2007 AND 2010 FLORIDA BUILDING CODE (FBC) AT THE DESIGN PRESSURES STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # NCTL-210-3744-1A AND NCTL-210-3744-5A DATED 01/07/2009 AND ASSOCIATED LABORATORY STAMPED DRAWINGS AND WERE TESTED IN ACCORDANCE WITH CURRENT DADE COUNTY PROTOCOLS.
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- WHEN WOOD BUCKS ARE USED, THEY SHALL NOT BE CONSIDERED PART OF THE STRUCTURAL SUBSTRATE REGARDLESS OF THEIR ATTACHMENT TO THE STRUCTURAL SUBSTRATE. WOOD BUCKS SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- WHEN 1X AND 2X WOOD BUCKS ARE USED AND IN CONTACT WITH CONCRETE AND/OR MASONRY, THE WOOD USED SHALL BE EITHER A PRESERVATIVE TREATED SOUTHERN YELLOW PINE OR A DURABLE WOOD SPECIES IN ACCORDANCE WITH 2007 AND 2010 FBC - BUILDING, SECTION 2326.2. THE WOOD USED MUST HAVE A SPECIFIC GRAVITY OF 0.55 MINIMUM.
- AN IMPACT PROTECTIVE SYSTEM (I.E. SHUTTERS, ETC.) IS NOT REQUIRED WITH THESE WINDOWS.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T6 AND 6005-T5.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04.
- DESIGNATIONS "X" AND "O" STANDS FOR THE FOLLOWING: X: OPERABLE SASH, O: FIXED LITE.
- A 1/3 INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THE DESIGN OF THE PRODUCTS SHOWN HEREIN. WIND LOAD DURATION FACTOR (Cd = 1.6) HAS NOT BEEN USED FOR WOOD ANCHOR DESIGN.

- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING, USE WOOD SCREWS OR TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE THE MINIMUM EMBEDMENT, MINIMUM EDGE DISTANCE AND MINIMUM ANCHOR SEPARATION OF 1 INCH AS SHOWN IN TABLE 1.
- FOR INSTALLATION THROUGH 1X WOOD BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE CONCRETE SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE AS SHOWN IN TABLE 1. TO PREVENT WOOD BUCKING FROM SPLITTING, DRILL 1/4" DIAMETER HOLE TO ACCOMODATE ANCHORS.
- FOR INSTALLATION INTO MIAMI-DADE APPROVED MULLION, USE TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS EMBEDMENT PAST INSIDE OF MULLION'S WEB AS SHOWN ON TABLE 1. APPLICABLE ONLY FOR JAMB TO MULLION CONNECTION, SHIMS CANNOT BE USED.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
- FOR CONCRETE BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - SOUTHERN YELLOW PINE. MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH SHOWN IN TABLE 1 AND COMPLIES WITH ACI 301.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT (DENSITY > 117 PCF). GROUT FILLED PER FLORIDA BUILDING CODE.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON THE ELEVATIONS.
- NOT APPLICABLE.
- ALL INSTALLATION ANCHORS MUST HAVE A CORROSION RESISTANT COATING OR BE MADE OF STAINLESS STEEL.
- SEAL FRAME CORNERS AT SILL-TO-JAMB AND HEAD-TO-JAMB WITH SMALL JOINT SEAM SEALANT. SEE CORNER DETAIL.
- SEAL ALL INSTALLATION ANCHOR HEADS WITH SMALL JOINT SEAM SEALANT DURING INSTALLATION. APPLY SEALANT IN COUNTERSINK BEFORE ANCHOR INSTALLATION AND SEAL ANCHOR HEAD AFTER ANCHOR INSTALLATION.
- THE SPACING OF INSTALLATION ANCHORS DEPICTED IS THE MAXIMUM SPACING TO BE USED FOR PRODUCT INSTALLATION. ANCHORS ARE TO MATCH TYPE, SIZE, EDGE DISTANCE AND EMBEDMENT OF THOSE SHOWN IN TABLE 1 FOR RESPECTIVE SUBSTRATE.

Table 1 - ANCHOR SCHEDULE

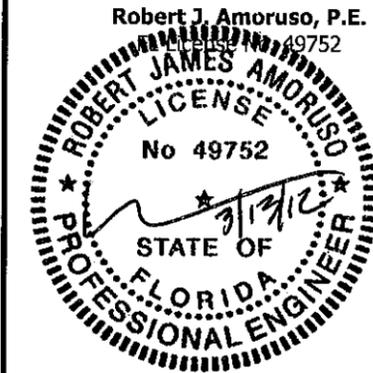
Substrate	Minimum Concrete Strength (psi)	Anchor Type	Size	Manufacturer	Minimum Embedment (in)	Minimum Edge Distance (in)
CMU	ASTM C90	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon	1 1/4	2 1/2
				ITW Buildex Tapcon with Advanced Threadform Technology	1	2
				Elco Ultracon	1 1/4	1 1/2
Filled (Grouted) CMU	2000	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon with Advanced Threadform Technology	1 3/4	1 1/2
	2000			Elco Ultracon	1 3/4	2 1/2
Concrete	2000	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon with Advanced Threadform Technology	1 3/4	1 1/2
	2700			Elco Ultracon	1 3/4	1 1/2
Wood Frame	n/a	Wood or Tapping Screw (Carbon or Stainless Steel)	#14 WS 1/4" TS	ANSI B18.6.1 or ASME B18.6.4, Type AB	1 1/2	1
Mullion (Jamb Only)	n/a	Tapping Screw (Carbon or Stainless Steel)	1/4"	ASME B18.6.4	3 screw threads embedment past inside of mullion's web.	n/a

Table 1 - Notes:

- Other manufacturer's concrete screws may be acceptable if they meet or exceed the allowable shear value of 303 lbs for concrete or grout-filled CMU or 202 lbs for hollow CMU, are installed at a minimum embedment required for that allowable and the installation meets the edge distance and spacing requirements for that anchor at the prescribed shear capacity.
- All screws will be "flat" head.
- Screw lengths will be sufficient to allow the minimum embedment to be made into the receiving substrate.
- CMU: Concrete Masonry Unit.

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SHEET	REV.	SHEET DESCRIPTION
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3	---	ANCHORAGE LIMITATIONS DP TABLES
4	---	VERTICAL SECTIONS & CORNER DETAIL
5	---	VERTICAL SECTIONS
6	---	HORIZONTAL SECTIONS
7	---	COMPONENTS, BOM & GLAZING DETAILS

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 12-0320.15
 Expiration Date Nov. 18, 2014
 By *Manuel Perez*
 Miami Dade Product Control



PTC Product Design Group, LLC
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WINDOOR
 INCORPORATED

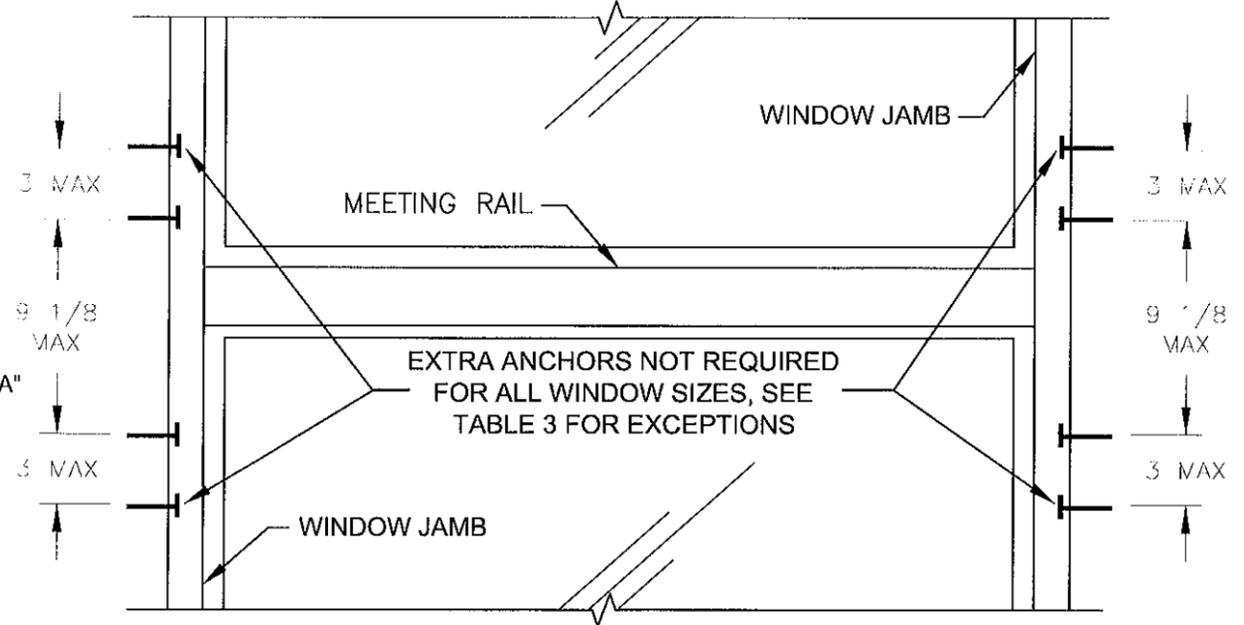
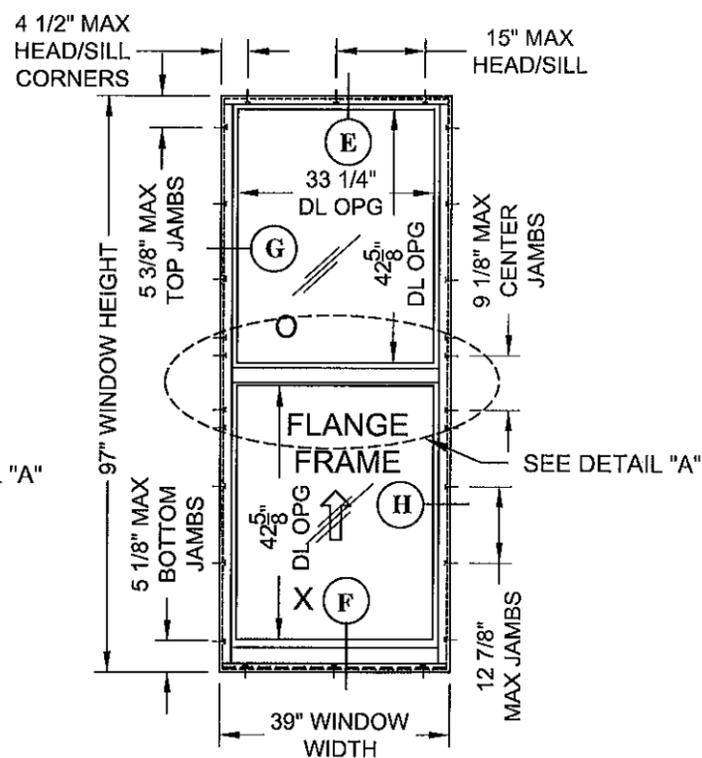
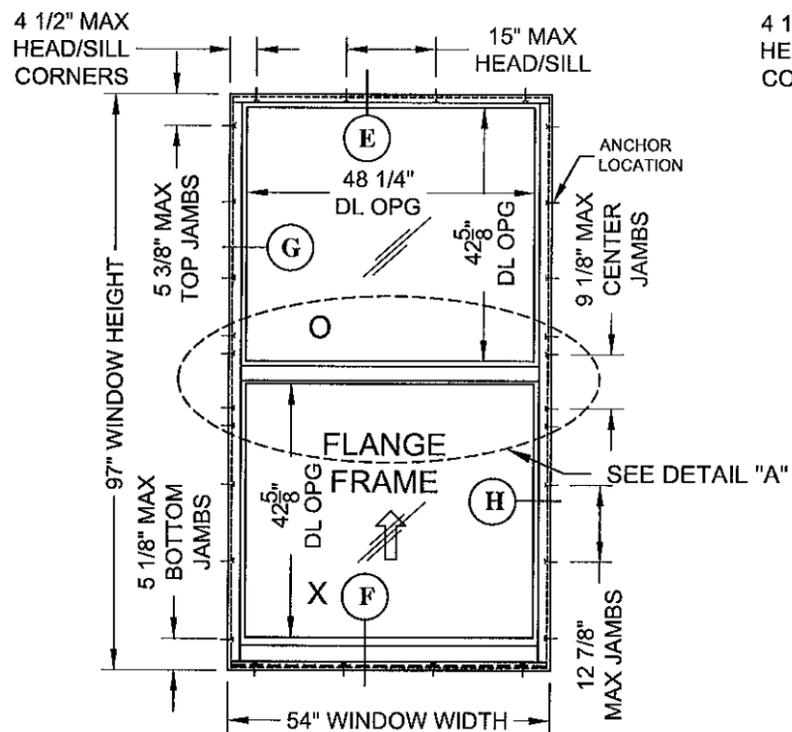
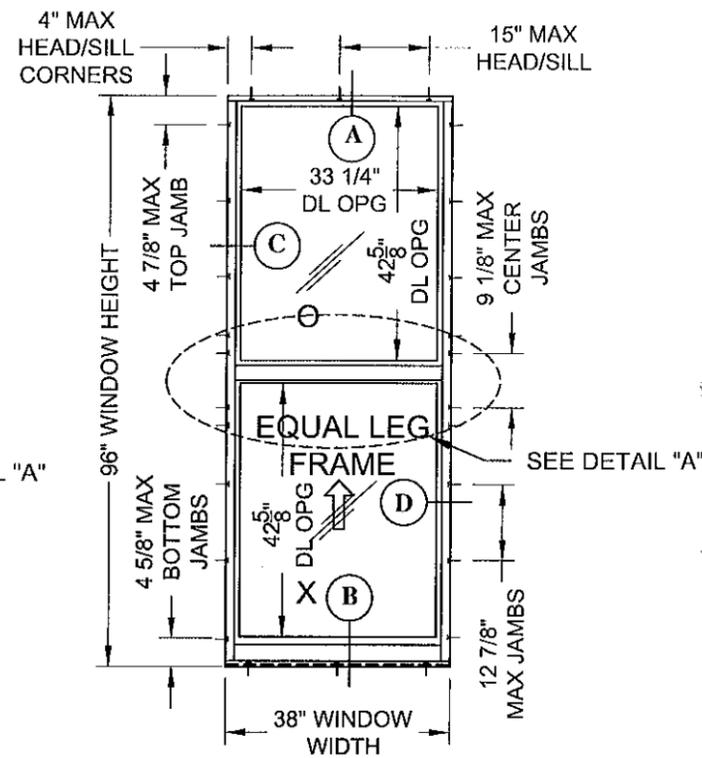
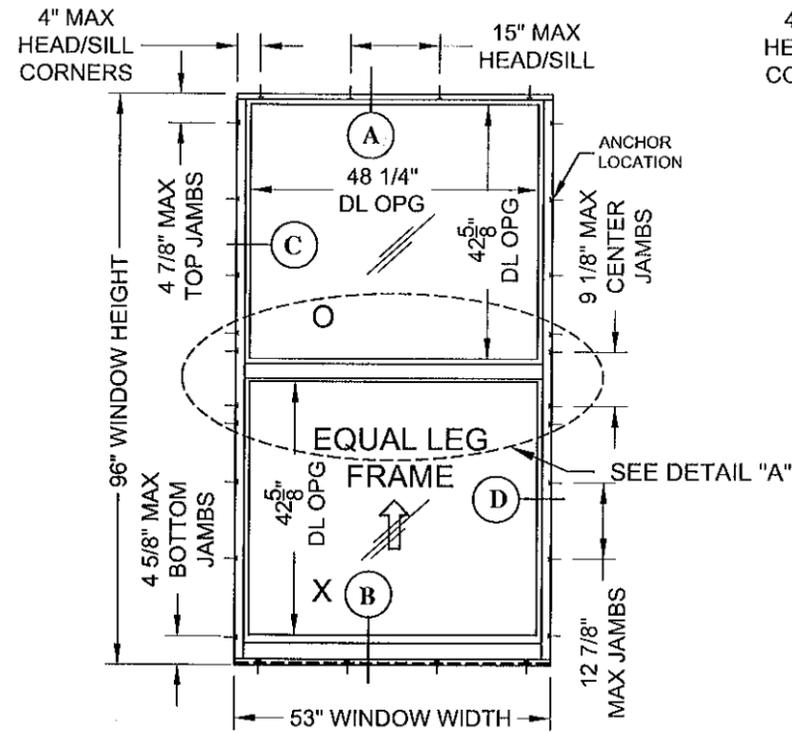
7500 AMSTERDAM DRIVE
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DRAWING TITLE:
 SERIES 4000 SINGLE HUNG IMPACT (LMI) WINDOW
 GENERAL AND INSTALLATION NOTES

SIZE	DRAWN BY: JBH	DWG NO. FEI0001	REV A
SCALE NTS	DATE: 07/06/11	SHEET 10F7	

SHEET	REV	DESCRIPTION	REVISIONS	BY
			DATE	
0		ORIGINAL ISSUE		RJA
A		UPDATE TO 2010 FBC		JBH

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DETAIL "A"
 ENHANCED MEETING RAIL ANCHORAGE
 (NTS) REQUIRED ON ALL SIZES WITH BUCK
 HEIGHT 30 1/2" AND GREATER.

Table 2 - Design Pressure (psf) for Large Missile Impact

Elevation	Window Size based on Buck Width and Height (in)		Design Pressure (psf)		Impact Rating
			Concrete/Masonry, Wood and Mullion Substrates (see Table 3 for exceptions)		
	Width	Height	Lami	Lami+IG	
1	> 38" to 53"	up to 96"	110	110	Large Missile Impact
2	up to 38"	up to 96"	110	110	

- NOTES:**
- FOR EQUAL LEG WINDOWS, BUCK DIMENSIONS ARE THE SAME AS WINDOW DIMENSIONS.
 - FOR FLANGE WINDOWS, BUCK DIMENSIONS ARE 1" LESS THAN WINDOW DIMENSIONS.
 - ELEVATIONS ARE VIEWED FROM EXTERIOR.
 - SCREENS ARE NOT SHOWN FOR CLARITY.
 - ALL DIMENSIONS ARE IN INCHES.
 - DL OPG: DAY LIGHT OPENING.
 - ANCHOR LOCATION SPACINGS SHOWN FOR THE JAMBS ARE THE SAME FOR A WALL OR A MULLION.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0320.15 Expiration Date Nov. 15, 2014
 By *Manuel Jerez*
 Miami/Dade Product Control

Robert J. Amoruso, P.E.
 FL License No. 49752

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DRAWING TITLE:
 SERIES 4000 SINGLE HUNG IMPACT (LMI) WINDOW
 ELEVATION/ANCHOR DETAILS AND DESIGN PRESSURE TABLE

SIZE	DRAWN BY: JBH	DWG NO. FEI0001	REV A
SCALE NTS	DATE: 07/06/11	SHEET 20F7	

REVISIONS	DESCRIPTION	DATE	BY
0	ORIGINAL ISSUE	07/06/11	RJA
A	UPDATE TO 2010 FBC	02/14/12	JBH

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TABLES 3A TO 3E - WINDOW SIZES WITH LIMITATIONS IN DESIGN PRESSURE DUE TO ANCHORAGE.

Table 3A - Commodity Sized Windows in Concrete/Masonry					
Design Pressure (DP) (psf) limited by Anchorage					
Concrete & Filled CMU			CMU		
Buck Sizes		DP (psf)	Buck Sizes		DP (psf)
BW	BH		BW	BH	
No anchor limitations to DP.	110 psf (from Table 2)	> 52-1/8 to 53	> 95 to 96	95	
			> 83 to 95	96	
			> 71 to 83	104	
		> 47 to 52-1/8	> 95 to 96	97	
			> 83 to 95	98	
			> 71 to 83	106	
		No anchor limitations to DP for sizes smaller than those above.			

Table 3B - Modular Sized Windows in Concrete/Masonry					
Design Pressure (DP) (psf) limited by Anchorage					
Concrete & Filled CMU			CMU		
Buck Sizes		DP (psf)	Buck Sizes		DP (psf)
BW	BH		BW	BH	
No anchor limitations to DP.	110 psf (from Table 2)	> 52-1/8 to 53	> 95-1/2 to 96	95	
			> 83-1/2 to 95-1/2	96	
			> 71-1/2 to 83-1/2	103	
		> 47-1/2 to 52-1/8	> 95-1/2 to 96	97	
			> 83-1/2 to 95-1/2	98	
			> 71-1/2 to 83-1/2	106	
		No anchor limitations to DP for sizes smaller than those above.			

Table 3C - Commodity & Modular Sized Windows Jamb to Mullion		
Design Pressure (DP) (psf) limited by Anchorage		
Buck Sizes		DP (psf)
BW	BH	
No anchor limitations to DP.		110 psf (from Table 2)

Table 3D - Commodity Sized Windows in Wood Substrates					
Design Pressure (DP) (psf) limited by Anchorage					
Buck Sizes		DP (psf)	Buck Sizes		DP (psf)
BW	BH		BW	BH	
53	96	61	47	96	75
53	95	61	47	95	75
53	83	66	47	83	79
53	72	73	47	72	85
53	71	73	47	71	85
53	62	78	47	62	92
53	55 1/4	86	47	55 1/4	99
53	49 5/8	94	47	49 5/8	107
53	43 3/4	100	47	43 3/4	110
53	37 3/8	110	47	37 3/8	110
53	30 1/2	110	47	30 1/2	110
53	25	* 85	47	25	* 96
52 1/8	96	62	38	96	97
52 1/8	95	63	38	95	103
52 1/8	83	68	38	> 71 to 83	106
52 1/8	72	75	38	25 to 71	110
52 1/8	71	75	36	> 95 to 96	105
52 1/8	62	80	36	25 to 95	110
52 1/8	55 1/4	88	No anchor limitations to DP for sizes smaller than those above.		110 psf (from Table 2)
52 1/8	49 5/8	96			
52 1/8	43 3/4	101			
52 1/8	37 3/8	110			
52 1/8	30 1/2	110			
52 1/8	25	* 87			

Table 3E - Modular Sized Windows in Wood Substrates					
Design Pressure (DP) (psf) limited by Anchorage					
Buck Sizes		DP (psf)	Buck Sizes		DP (psf)
BW	BH		BW	BH	
53	96	61	43 1/2	96	80
53	95 1/2	61	43 1/2	95 1/2	81
53	83 1/2	66	43 1/2	83 1/2	86
53	71 1/2	73	43 1/2	71 1/2	94
53	59 1/2	81	43 1/2	59 1/2	102
53	51 1/2	91	43 1/2	30-1/2 to 51-1/2	110
53	47 1/2	98	43 1/2	27 1/2	* 96
53	43 1/2	100	39 1/2	96	92
53	35 1/2	110	39 1/2	95 1/2	92
53	30 1/2	110	39 1/2	83 1/2	98
53	27 1/2	* 78	39 1/2	71 1/2	106
47 1/2	96	71	39 1/2	30-1/2 to 59-1/2	110
47 1/2	95 1/2	71	39 1/2	27 1/2	* 105
47 1/2	83 1/2	76	35 1/2	> 83 1/2 to 96	107
47 1/2	71 1/2	84	No anchor limitations to DP for sizes smaller than those above.		110 psf (from Table 2)
47 1/2	59 1/2	92			
47 1/2	51 1/2	103			
47 1/2	30-1/2 to 47-1/2	110			
47 1/2	27 1/2	* 87			

* SIZES WITH BUCK HEIGHT (BH) LESS THAN 30 1/2" DO NOT HAVE SPACE FOR ENHANCED ANCHORAGE AT THE MEETING RAILS, THEREFORE THE DESIGN PRESSURE (DP) IS LOWER THAN THE NEXT LARGEST WINDOW. AT 30 1/2" BH OR LARGER, WINDOWS ARE FABRICATED AND INSTALLED WITH ENHANCED ANCHORAGE AT MEETING RAILS.

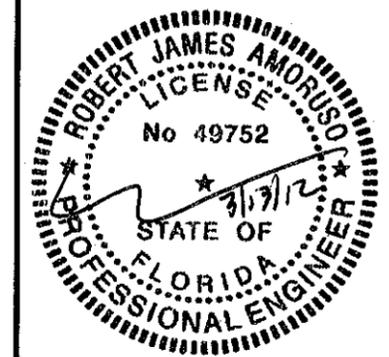
NOTES:

- FOR EQUAL LEG WINDOWS, BUCK DIMENSIONS ARE THE SAME AS WINDOW DIMENSIONS.
- FOR FLANGE WINDOWS, BUCK DIMENSIONS ARE 1" LESS THAN WINDOW DIMENSIONS.
- BW: BUCK WIDTH, BH: BUCK HEIGHT
- DP: DESIGN PRESSURE
- CMU: CONCRETE MASONRY UNIT

REVISIONS	DATE	BY
DESCRIPTION	07/06/11	RJA
ORIGINAL ISSUE	02/14/12	JBH
UPDATE TO 2010 FBC		

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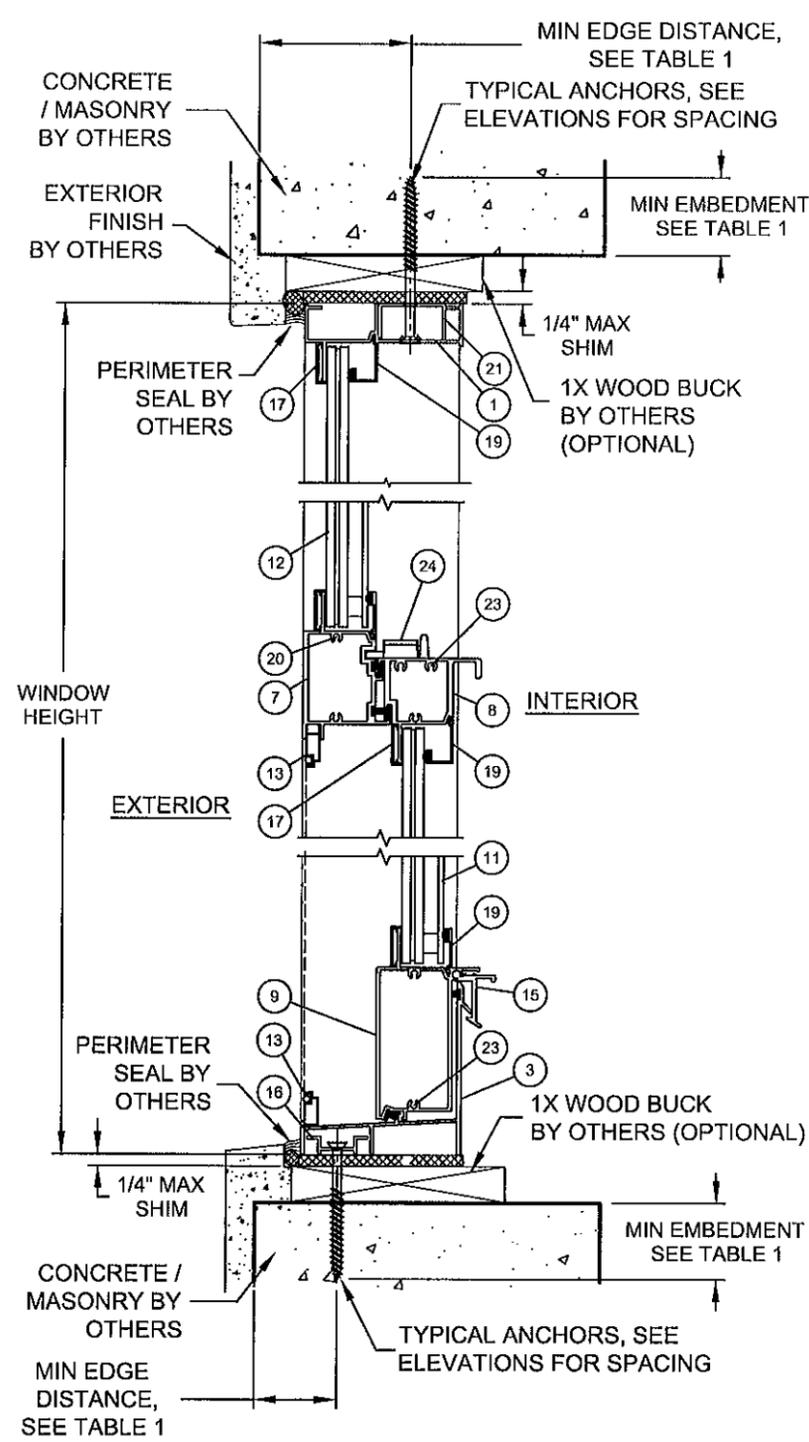
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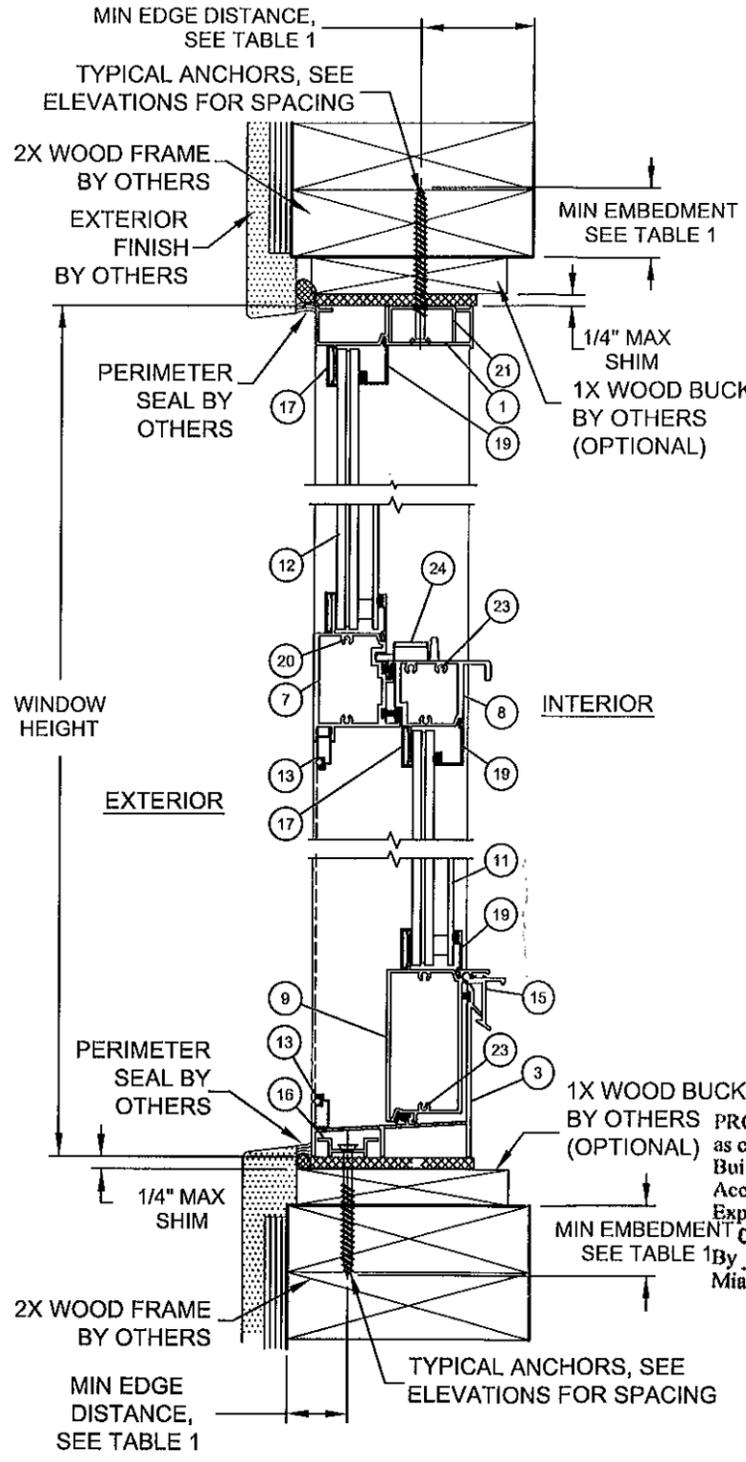
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SIZE	DRAWN BY: JBH	DWG NO. FEI0001	REV A
SCALE NTS	DATE: 07/06/11	SHEET 30F7	

A VERTICAL SECTION
CONCRETE / MASONRY SUBSTRATE
WITH EQUAL LEG FRAME

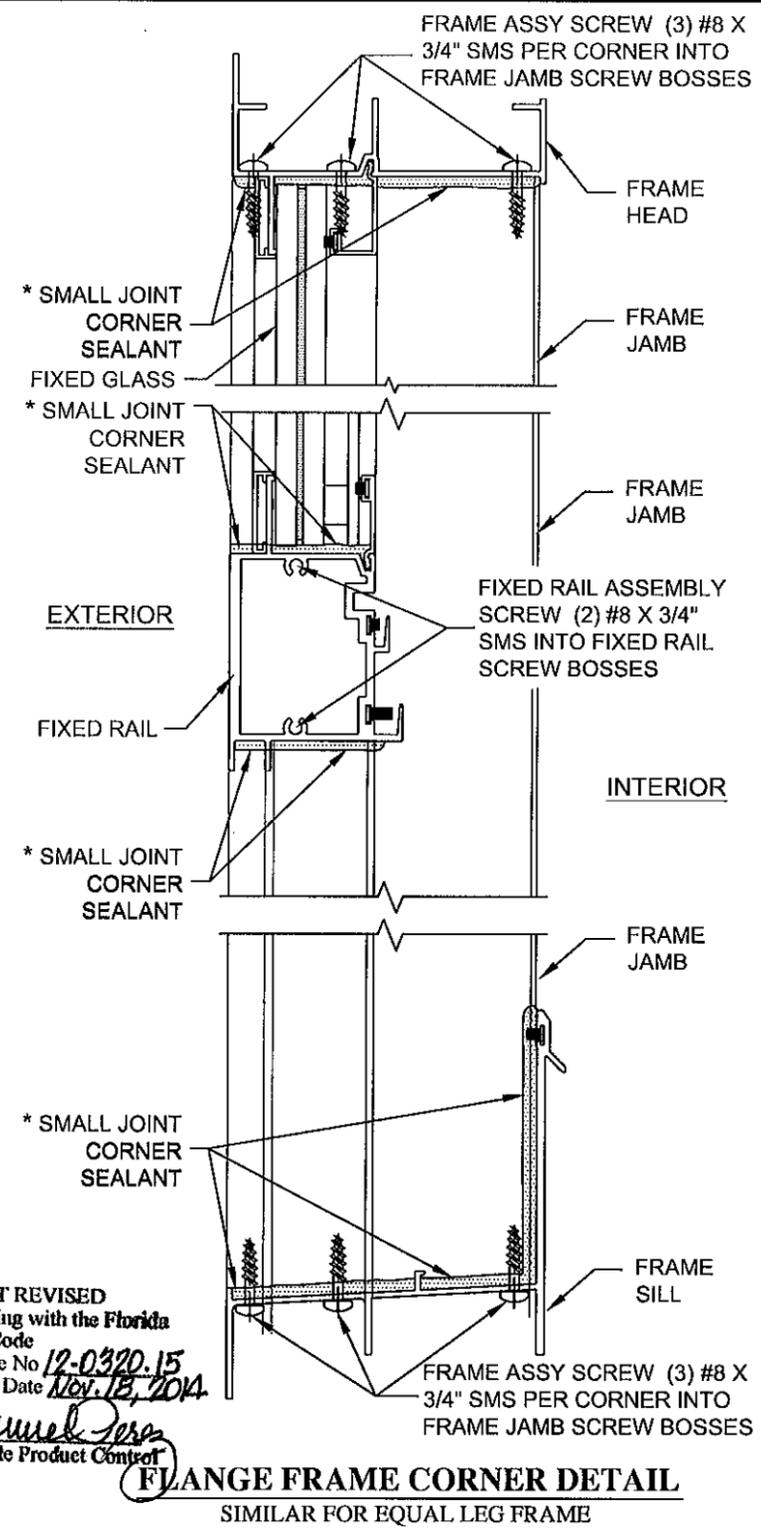


B VERTICAL SECTION
CONCRETE/MASONRY SUBSTRATE
WITH EQUAL LEG FRAME

A VERTICAL SECTION
WOOD FRAME SUBSTRATE
WITH EQUAL LEG FRAME



B VERTICAL SECTION
WOOD FRAME SUBSTRATE
WITH EQUAL LEG FRAME



FLANGE FRAME CORNER DETAIL
SIMILAR FOR EQUAL LEG FRAME

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0320.15
Expiration Date Nov. 13, 2014
By *Mmanuel Jara*
Miami Dade Product Control

* CORNER SEALANT APPLIED IN THE FACTORY IS INSTALLED ON THE EXTERIOR SURFACE OF THE FRAME JOINTS. AFTER WINDOW INSTALLATION THE SEALANT MAY NOT BE VISIBLE.

REVISIONS		BY	DATE
SHEET	REV	DESCRIPTION	
	0	ORIGINAL ISSUE	07/06/11
	A	UPDATE TO 2010 FBC	02/14/12

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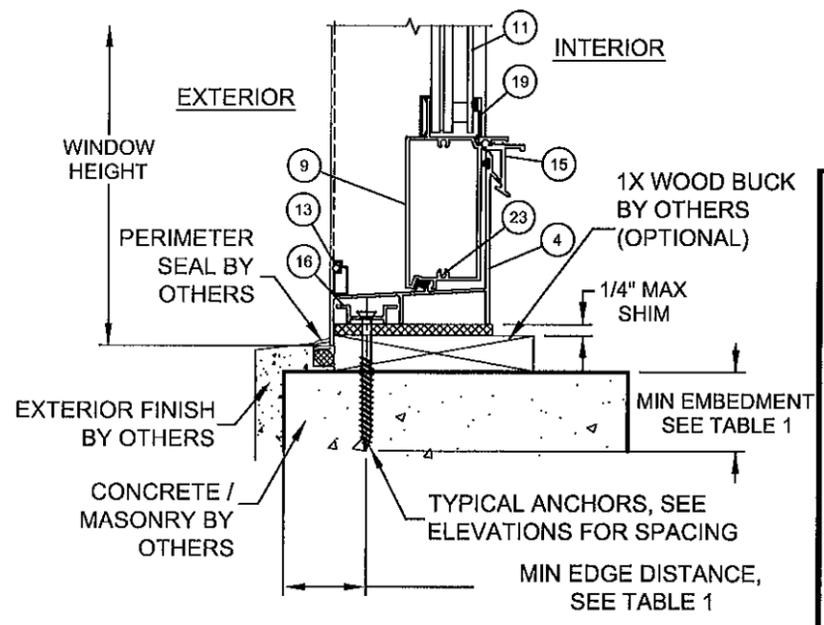
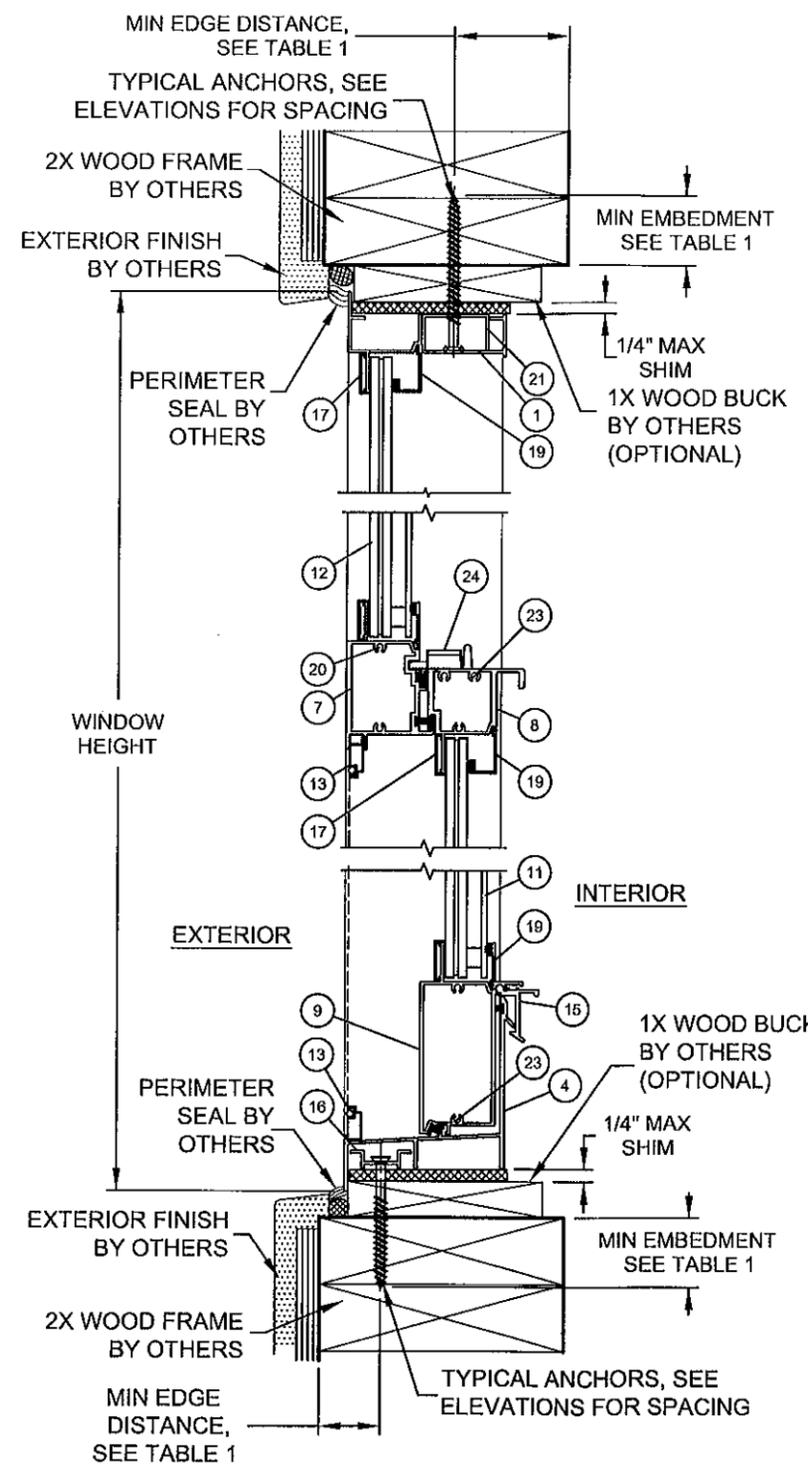
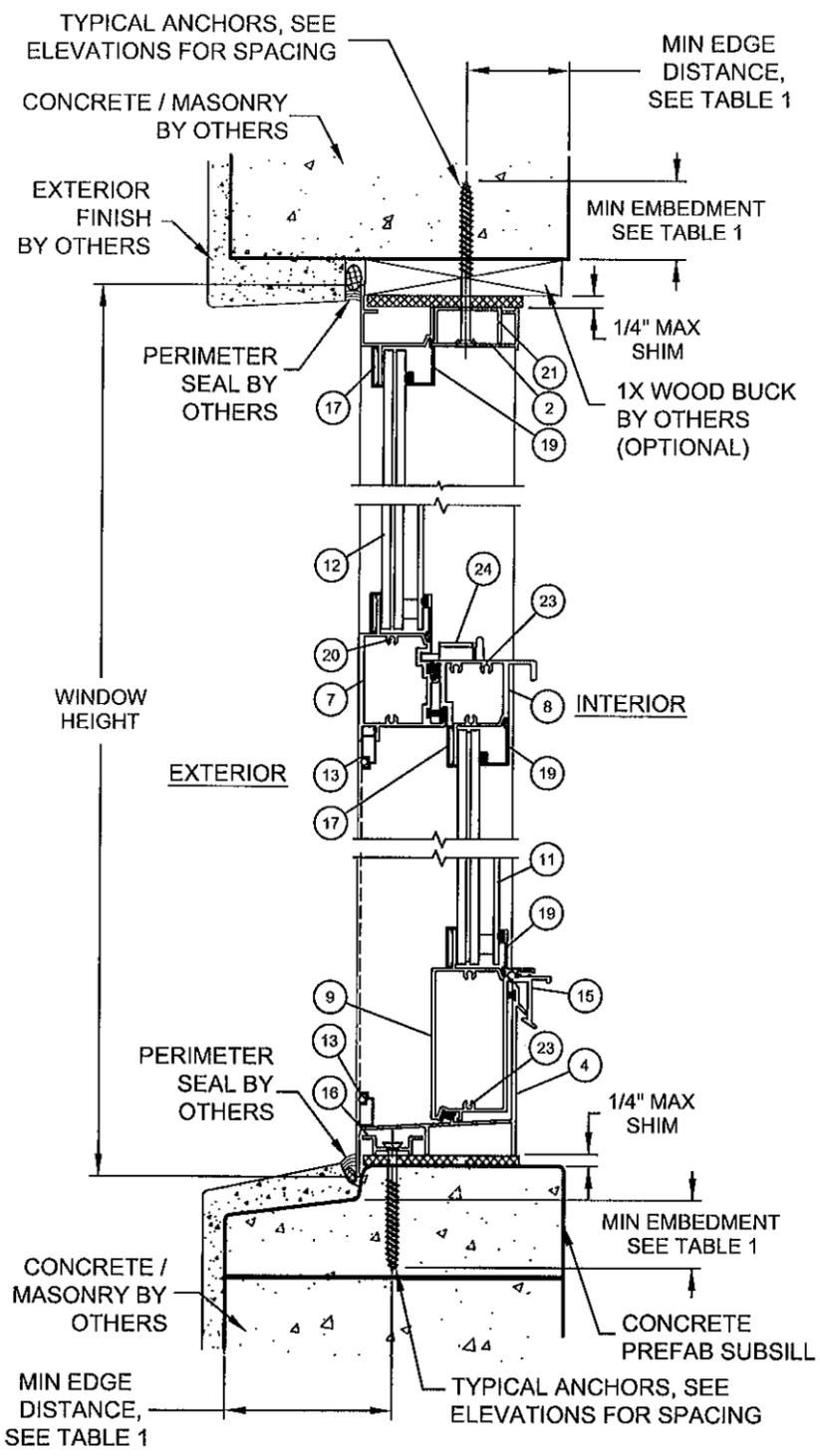
DRAWING TITLE:
SERIES 4000 SINGLE HUNG IMPACT (LMI) WINDOW
VERTICAL SECTIONS A & B AND CORNER DETAILS

SIZE	DRAWN BY:	DWG NO.	REV
	JBH	FEI0001	A
SCALE	DATE:	SHEET	
NTS	07/06/11	40F7	

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E VERTICAL SECTION
CONCRETE / MASONRY SUBSTRATE
WITH FLANGE FRAME

E VERTICAL SECTION
WOOD FRAME SUBSTRATE
WITH FLANGE FRAME



F VERTICAL SECTION
CONCRETE/MASONRY SUBSTRATE
WITH FLANGE FRAME

F VERTICAL SECTION
WOOD FRAME SUBSTRATE
WITH FLANGE FRAME

REVISIONS		DATE	BY
SHEET	REV	0	RJA
	DESCRIPTION	ORIGINAL ISSUE	
		02/14/12	JBH
		UPDATE TO 2010 FBC	

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Acceptance No. 12-0320.15
Expiration Date Nov. 18, 2014
By *Manuel Perez*
Miami Dade Product Control

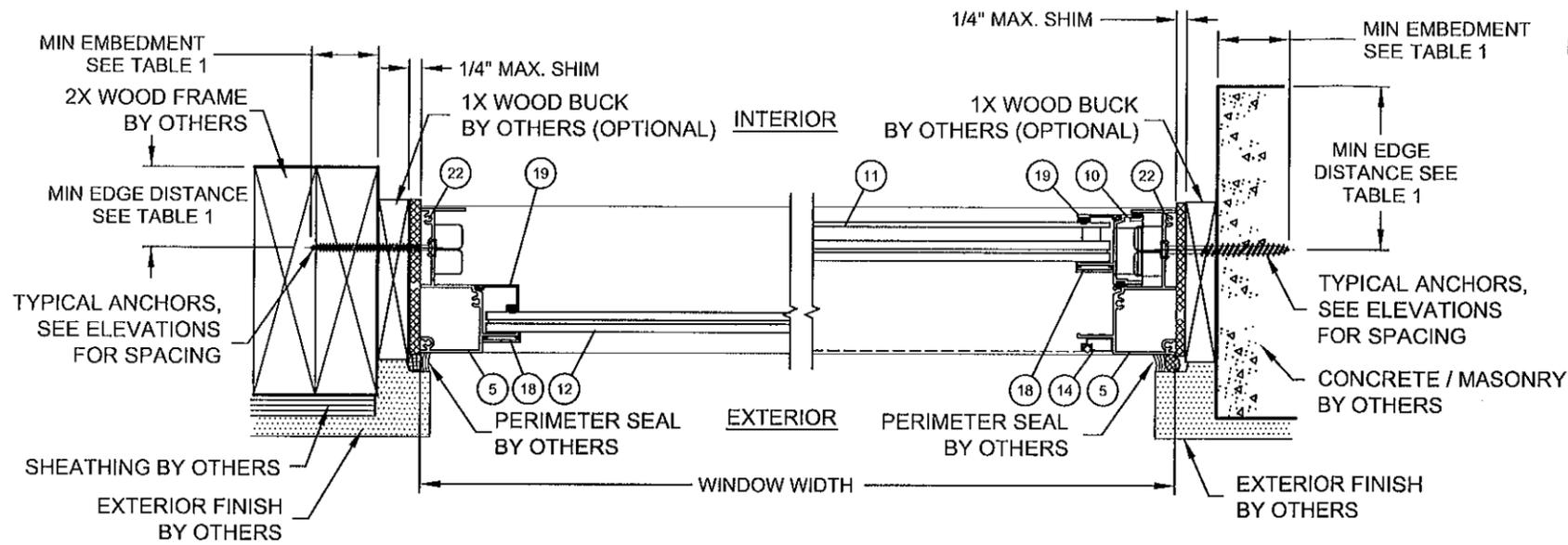
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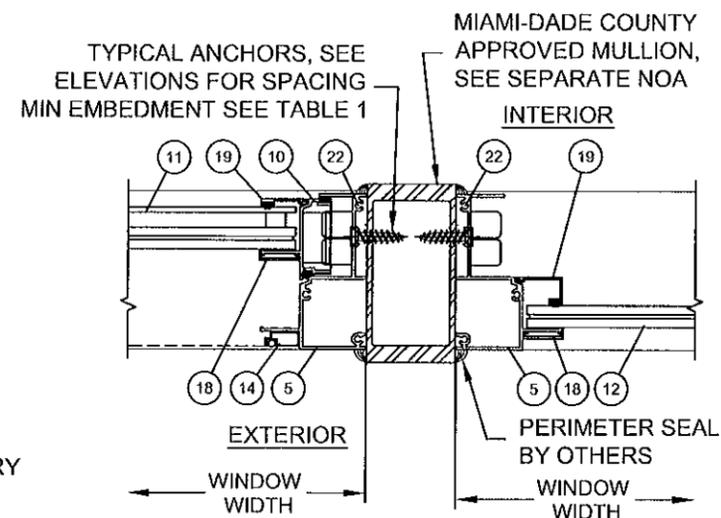
DRAWING TITLE:
SERIES 4000 SINGLE HUNG IMPACT (LMI) WINDOW
VERTICAL SECTIONS E & F

SIZE	DRAWN BY: JBH	DWG. NO. FEI0001	REV A
SCALE NTS	DATE: 07/06/11	SHEET 50F7	

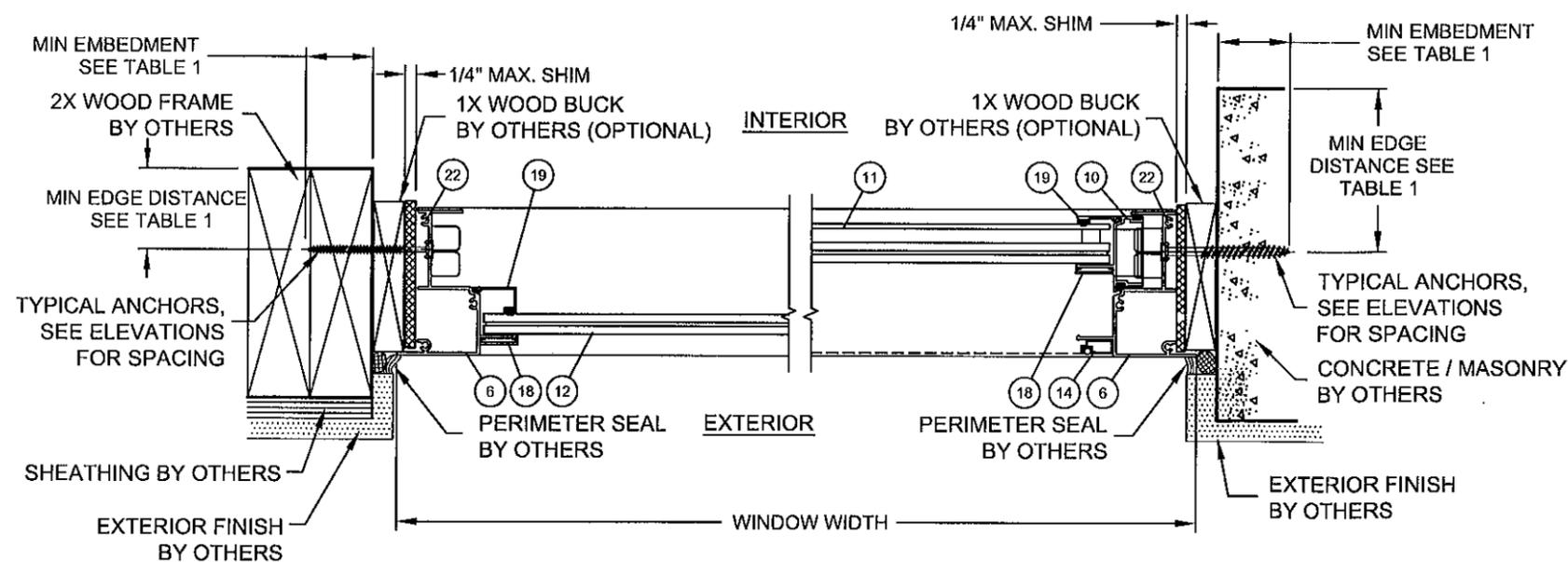
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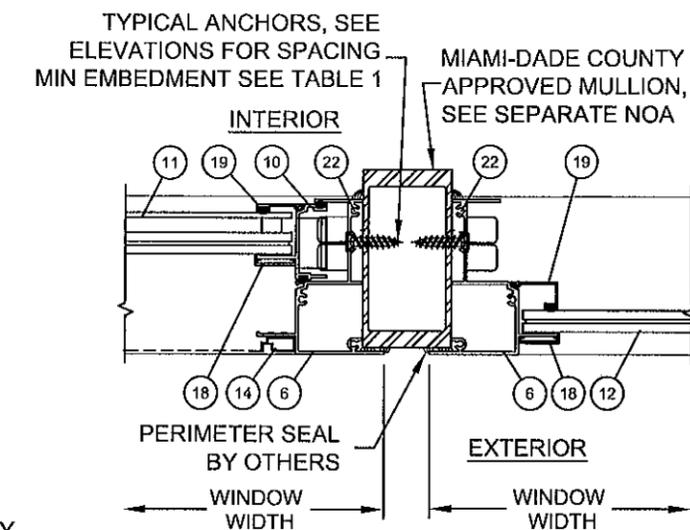
C HORIZONTAL SECTION
WOOD FRAME SUBSTRATE
WITH EQUAL LEG FRAME



HORIZONTAL SECTION
2x4 ALUMINUM TUBE MULLION
WITH EQUAL LEG FRAME



G HORIZONTAL SECTION
WOOD FRAME SUBSTRATE
WITH FLANGE FRAME



HORIZONTAL SECTION
2x4 ALUMINUM TUBE MULLION
WITH FLANGE FRAME

PRODUCT REVISED
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Expiration Date Nov. 18, 2014
By *Maurice Perez*
Miami Dade Product Control

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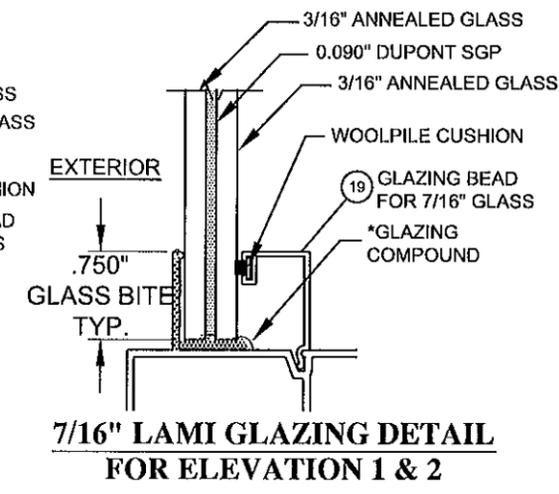
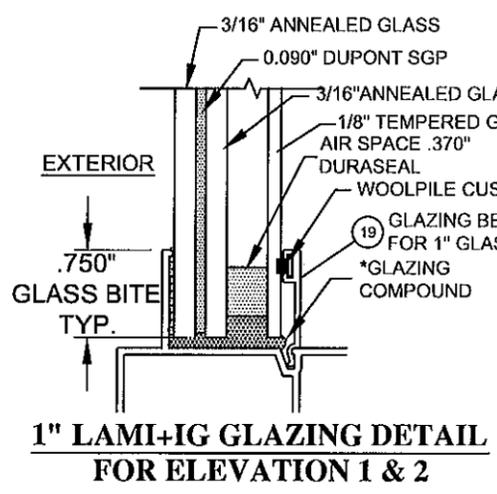
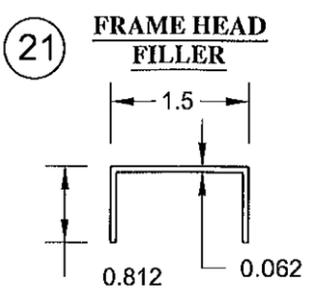
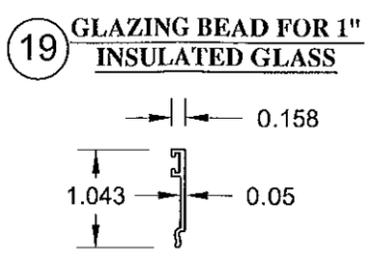
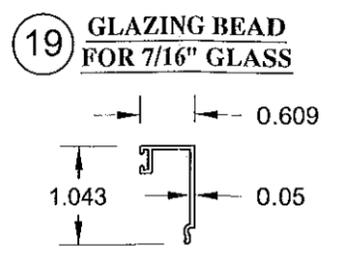
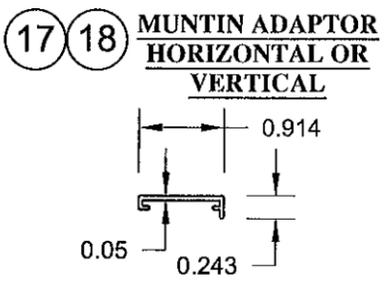
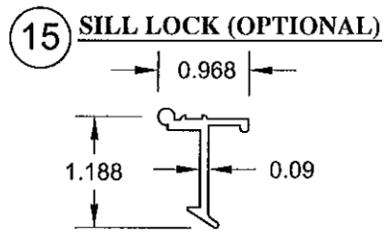
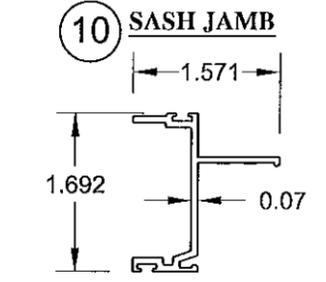
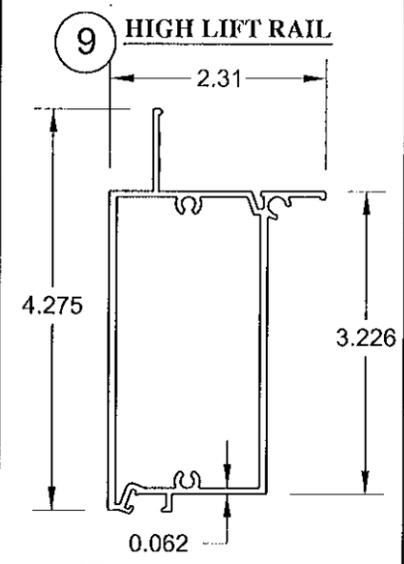
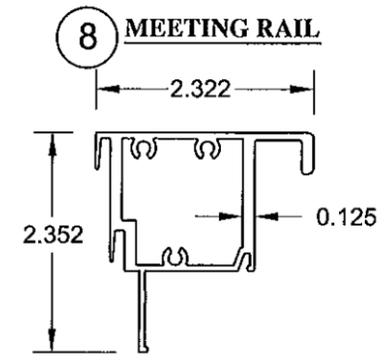
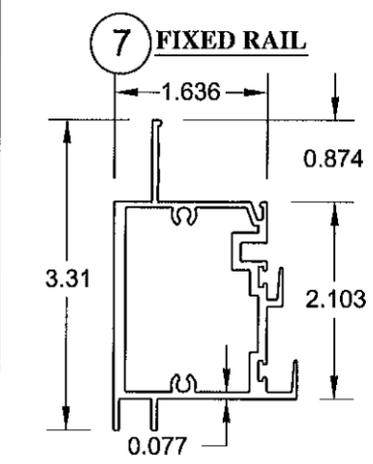
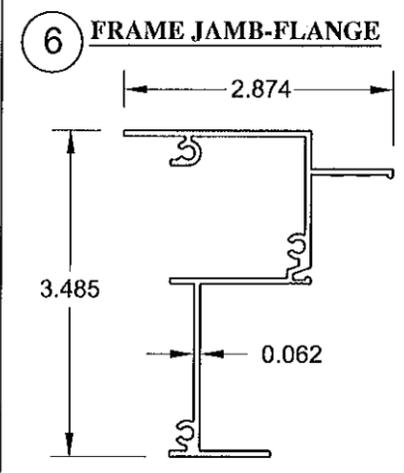
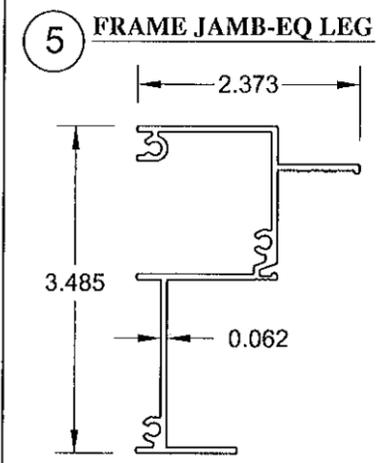
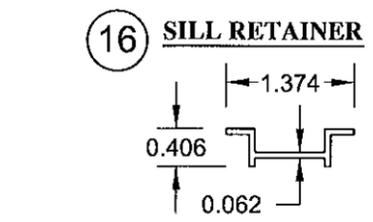
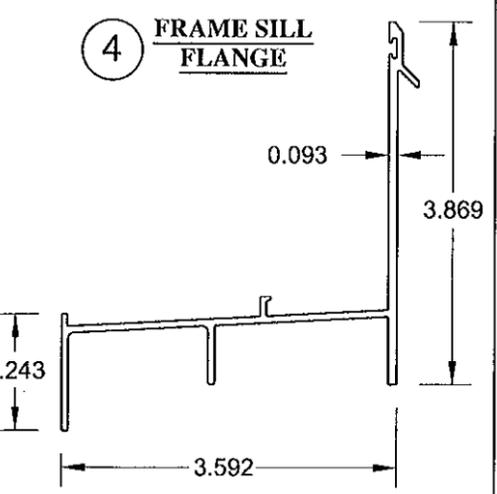
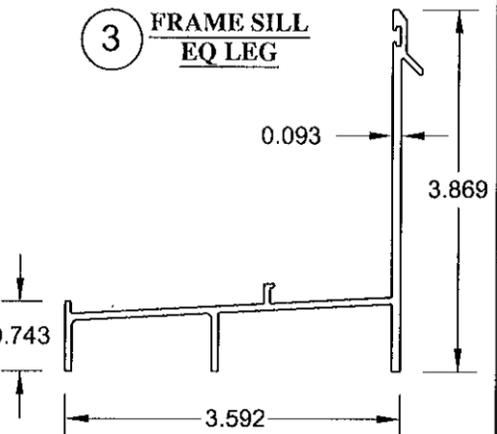
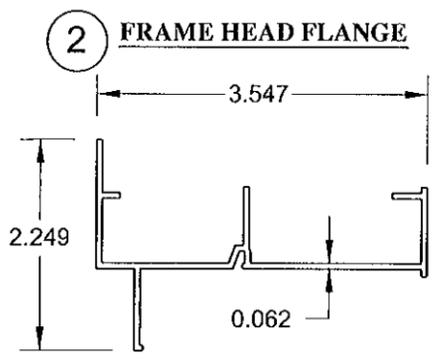
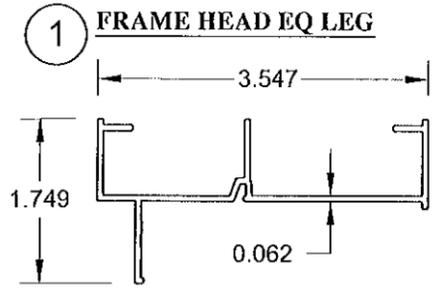
DRAWING TITLE: SERIES 4000 SINGLE HUNG IMPACT (LM) WINDOW HORIZONTAL SECTIONS C, D, G & H AND MULLION SECTIONS			
SIZE	DRAWN BY: JBH	DWG NO. FEI0001	REV A
SCALE NTS	DATE: 07/06/11	SHEET 60F7	

REVISIONS	DATE	BY
DESCRIPTION	07/06/11	RJA
ORIGINAL ISSUE		
UPDATE TO 2010 FBC	02/14/12	JBH

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NOTES:
 LAMI: LAMINATED GLASS
 IG: INSULATED GLASS
 PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0320.15
 Expiration Date Nov. 18, 2014
 By *Manuel Pires*
 Miami Dade Product Control

*APPROVED GLAZING COMPOUNDS
 1- NATIONAL STARCH HOT MELT
 2- DOW CORNING 995 SILICONE

BILL OF MATERIALS

ITEM #	PART DESCRIPTION	PART # OR DWG NO.	MATERIAL
1	FRAME HEAD-EQ LEG	FE 5900	ALUM. EXTRUSION (6063-T6)
2	FRAME HEAD-FLANGE	FE 5907	ALUM. EXTRUSION (6063-T6)
3	FRAME SILL-EQ LEG	FE 5901	ALUM. EXTRUSION (6063-T6)
4	FRAME SILL-FLANGE	FE 5908	ALUM. EXTRUSION (6063-T6)
5	FRAME JAMB-EQ LEG	FE 5902	ALUM. EXTRUSION (6063-T6)
6	FRAME JAMB-FLANGE	FE 5909	ALUM. EXTRUSION (6063-T6)
7	FIXED RAIL	FE 5903	ALUM. EXTRUSION (6005-T5)
8	MEETING RAIL	FE 5904	ALUM. EXTRUSION (6005-T5)
9	HIGH LIFT RAIL	FE 5905	ALUM. EXTRUSION (6063-T6)
10	SASH JAMB	FE 5906	ALUM. EXTRUSION (6005-T5)
11	SASH GLASS	NA	SEE GLAZING DETAILS
12	FIXED GLASS	NA	SEE GLAZING DETAILS
13	SCREEN HEAD & SILL	NA	ALUMINUM ROLLFORM
14	SCREEN JAMB	NA	ALUMINUM ROLLFORM
15	SILL LOCK (OPTIONAL)	FE 5031	ALUM. EXTRUSION (6063-T6)
16	SILL RETAINER	FE 5910	ALUM. EXTRUSION (6063-T6)
17	MUNTIN ADAPTER HORIZONTAL	FE 5911	ALUM. EXTRUSION (6063-T6)
18	MUNTIN ADAPTER VERTICAL	FE 5911	ALUM. EXTRUSION (6063-T6)
19	7/16" GLAZING BEAD	FE 5915	ALUM. EXTRUSION (6063-T6)
	1" GLAZING BEAD	FE 5912	
20	FIXED RAIL ASSY SCREW	NA	#8 x 3/4" PN SMS SS
21	FRAME HEAD FILLER	FE 5922	ALUM. EXTRUSION (6063-T6)
22	FRAME ASSY SCREW	NA	#8 x 3/4" PN SMS SS
23	SASH ASSY SCREW	NA	#8 x 3/4" PN SMS SS
24	METAL CAM-SWEEP LOCK	NA	DIE-CAST ZINC

SHEET	REV	REVISIONS	
		DESCRIPTION	DATE
0		ORIGINAL ISSUE	07/06/11
A		UPDATE TO 2010 FBC	02/14/12

BY: RJA
 DATE: 07/06/11
 BY: JBH
 DATE: 02/14/12

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DRAWING TITLE:
 SERIES 4000 SINGLE HUNG IMPACT (LMI) WINDOW
 COMPONENTS, BOM AND GLAZING DETAILS

SIZE	DRAWN BY:	DWG NO.	REV
	JBH	FEI0001	A

SCALE: NTS DATE: 07/06/11 SHEET: 7 OF 7