



**MIAMI-DADE COUNTY**  
**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](http://www.miamidade.gov/buildingcode)

**Florida Extruders International, Inc.**  
**2450 Jewett Lane**  
**Sanford, FL 32771**

**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 "5000" Aluminum Fixed Window – S.M.I.**

**APPROVAL DOCUMENT:** Drawing No. FEI0004, titled "Milestone Series 5000 Aluminum Fixed Windows", sheets 1 through 9 of 9, dated 04/09/09, with revision A dated 07/15/09, prepared by PTC, LLC, signed and sealed by Robert J. Amoruso, 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: 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 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.**



**NOA No. 09-0519.06**  
**Expiration Date: September 16, 2014**  
**Approval Date: September 16, 2009**  
**Page 1**

**Florida Extruders International, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **FEI0004**, Sheets 1 through 9 of 9, titled "Milestone Series 5000 Aluminum Fixed Windows", dated 04/09/09, with revision A dated 07/15/09, prepared by PTC, LLC, signed and sealed by Robert J. 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) Small 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 series 5000 aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3562-2**, specimens: **FX-1, FX-2, FX-3, FX-4, FX-5 and FX-6**, dated 09/24/08, and amendment letter dated 11/24/09, signed and sealed by Gerard John Ferrara, 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) Small 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 series 5000 aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3563-2**, specimens: **FX-7, FX-8, FX-9, FX-10, FX-11 and FX-12**, dated 09/24/08, and amendment letter dated 11/24/09, signed and sealed by Gerard John Ferrara, 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) Small 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 series 5000 aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3564-2**, specimens: **FX-13, FX-14, FX-15 and FX-16**, dated 09/24/08, and amendment letter dated 11/24/09, signed and sealed by Gerard John Ferrara, P.E.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 09-0519.06  
Expiration Date: September 16, 2014  
Approval Date: September 16, 2009

**Florida Extruders International, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 03/18/09, prepared by PTC, LLC, signed and sealed by Robert J. Amoruso, P.E.  
**Complies with ASTM E1300-02/04**

**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 and no financial interest, dated May 15, 2009, signed and sealed by Robert J. Amoruso, P.E.
2. Proposal No. **08-0452** issued by BCCO, dated August 12, 2008, signed by Ishaq Chanda, P.E.
3. Laboratory compliance letter for Test Report No. **NCTL-210-3562-2**, issued by National Certified Testing Laboratories, dated November 24, 2008, signed and sealed by Gerard J. Ferrara, P.E.
4. Laboratory compliance letter for Test Report No. **NCTL-210-3563-2**, issued by National Certified Testing Laboratories, dated November 18, 2008, signed and sealed by Gerard J. Ferrara, P.E.
5. Laboratory compliance letter for Test Report No. **NCTL-210-3564-2**, issued by National Certified Testing Laboratories, dated November 18, 2008, signed and sealed by Gerard J. Ferrara, P.E.

**G. OTHERS**

1. None.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 09-0519.06  
Expiration Date: September 16, 2014  
Approval Date: September 16, 2009

# FLORIDA EXTRUDERS INTERNATIONAL, Inc.

## *IMPACT Fixed Window, SMI*

### INSTALLATION ANCHORAGE DETAILS

**GENERAL NOTES:**

- THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2004 AND 2007 FLORIDA BUILDING CODE (FBC) AT THE DESIGN PRESSURES STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # NCTL-210-3562-2, NCTL-210-3563-2 AND NCTL-210-3564-2 DATED 09/29/2008 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 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.
  - GLASS MEETS THE REQUIREMENTS OF ASTM E1300.
  - 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 ( $C_d = 1.6$ ) HAS NOT BEEN USED FOR WOOD ANCHOR DESIGN.

**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.
- 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. SEE CORNER DETAIL.
- 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.
- 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 SHEET METAL 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 SHEET METAL SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS ENGAGEMENT 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, ACI 318-05 AND ACI 355.
  - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 AND ACI 530-05, GRADE N, TYPE 1 (OR GREATER). GROUT FILLED PER FLORIDA BUILDING CODE.

**TABLE 1 - ANCHOR SCHEDULE**

Substrate	Minimum Concrete Strength (psi)	Anchor Type	Size	Manufacturer	Minimum Embedment (in)	Minimum Edge Distance (in)	Comments
CMU	See Note 13.c	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon	1 1/4	2 1/2	See Table 1 notes.
				Elco Tapcon	1 1/4	1 3/4	
Concrete	3192	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon	1 3/4	1 7/8	
				ITW Buildex Tapcon with Advanced Threadform Technology	1 3/4	1 1/2	
					1 3/4	1 1/4	
				Elco Tapcon	1 3/4	1 3/8	
				Power Fasteners Tapper	1 3/4	2 7/8	
				1 3/4	2 1/2		
Wood Frame	n/a	Wood Screw (Carbon or Stainless Steel)	#14	ANSI B18.6.1	1 1/2	1	
		Sheet Metal Screw (Carbon or Stainless Steel)	1/4"	ASME B18.6.4	1 1/2	1	
Mullion (Jamb Only)	na/	Sheet Metal Screw (Carbon or Stainless Steel)	1/4"	ASME B18.6.4	3 screw threads	n/a	

**Table 1 - Notes:**

- Other manufacturer's concrete screws may be acceptable if they meet or exceed the allowable shear value of 264 lbs, 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.

**TABLE OF CONTENTS**

SHEET	REV.	SHEET DESCRIPTION
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2	A	ELEVATIONS AND ANCHOR LAYOUT
3	A	DESIGN PRESSURE TABLES
4	A	VERTICAL SECTIONS
5	A	VERTICAL SECTIONS
6	A	VERTICAL SECTIONS
7	A	VERTICAL & HORIZONTAL SECTIONS
8	A	HORIZONTAL SECTIONS
9	A	BOM, COMPONENTS & GLAZING DETAILS

**FLORIDA EXTRUDERS INTERNATIONAL, INC.**  
 2540 JEWETT LANE  
 SANFORD, FLORIDA 32771-1687

TITLE: MILESTONE SERIES 5000 ALUMINUM FIXED WINDOWS  
 GENERAL AND INSTALLATION NOTES

DRAWN BY: C.D.  
 DATE: 04/09/09  
 SCALE: NTS  
 REV: A  
 SHEET: 1 OF 9  
 DRAWING NO: FEI0004



PROJECT #308-0212

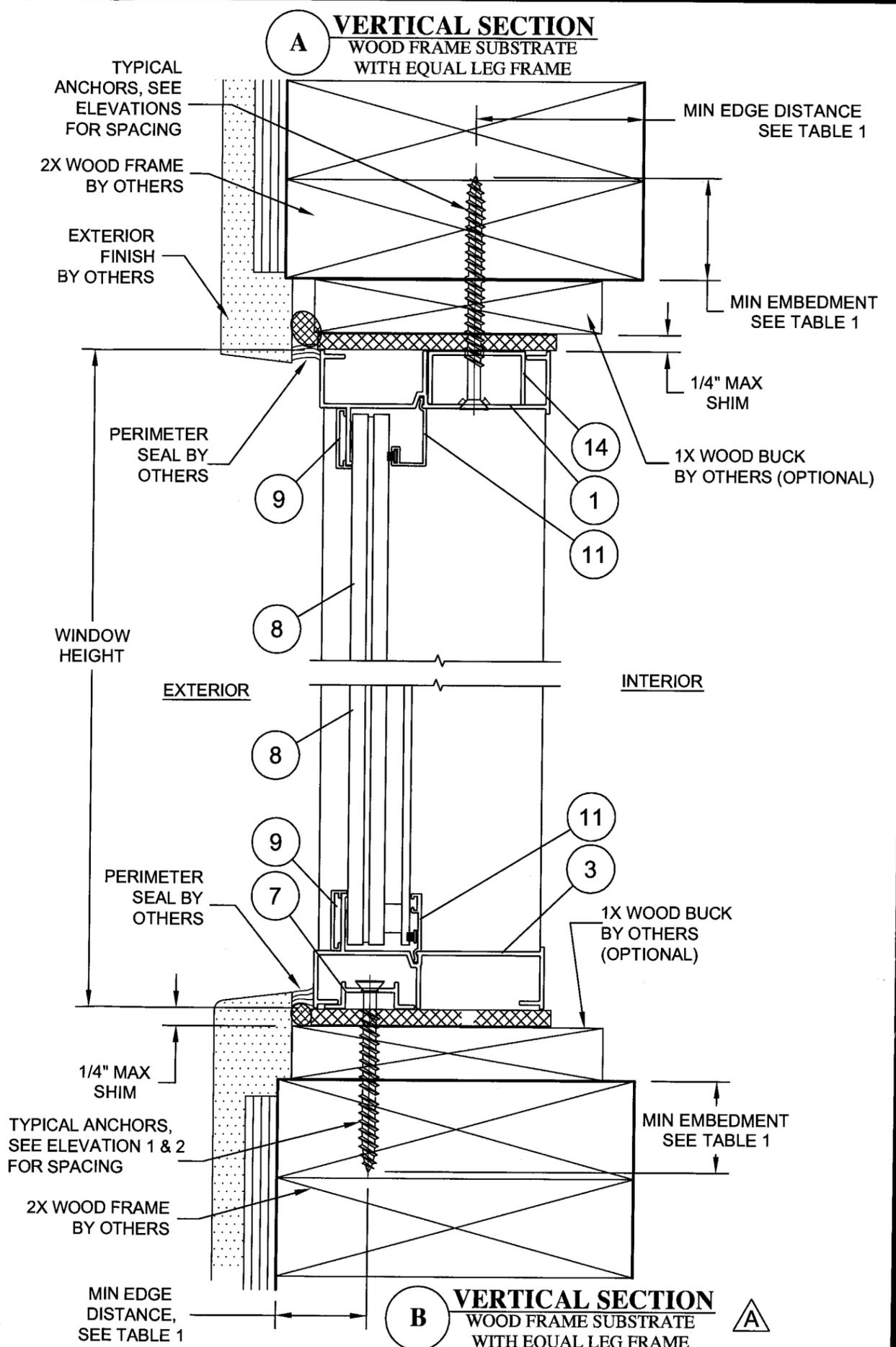
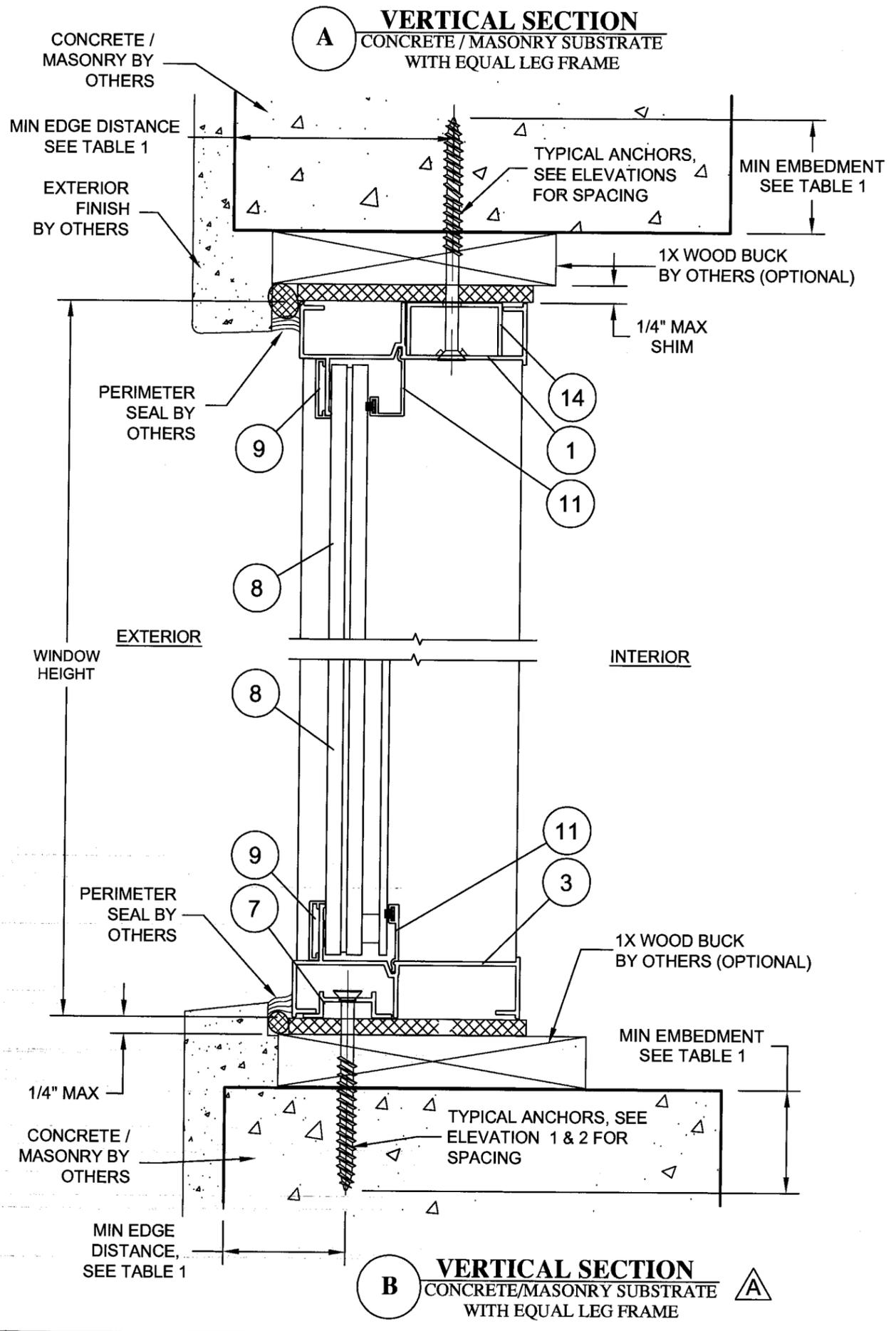
Robert J. Amoroso, P.E.  
 FL License no. 49752

1535 N. Cogswell Street, Suite C25  
 Rockledge, Florida 32955  
 FBPE Certificate of Authorization NO. 259935

Approved as complying with the Florida Building Code  
 Date: 08/16/2009  
 NOAH 09-0519-06  
 Division: Miami Dade Product Control  
 By: *Maureen O'Connell*

Update gen & installation notes, table of contents.	07/15/09	CD
REV	DESCRIPTION	DATE
A	REV	BY





PROJECT #309-0212		DATE: 04/09/09		CD	
Robert J. Amoroso, P.E. FL License no. 49752		DRAWN BY: C.D.		Expand details scale to 1/2 size.	
1535 N. Cogswell Street, Suite C25 Rockledge, Florida 32955 FBPE Certificate of Authorization NO. 25935		SCALE: 1:2		DESCRIPTION	
PTC, LLC Phone 321.690.1788 Fax 321.690.1789		DRAWING NO: FE10004		REV	
PREPARED BY: <i>Walter J. Amoroso</i>		SHEET: 4 OF 9		DATE	
Approved as complying with the Florida Building Code Date 5/27/16 No. 09-0514-06 Miami Code Product Control Division <i>Amoroso</i>		TITLE: MILESTONE SERIES 5000 ALUMINUM FIXED WINDOWS VERTICAL SECTIONS		BY:	
FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA 32771-1687		PREPARED BY: PTC, LLC Rockledge, Florida 32955		DATE 07/15/09	

**TABLE 2 - Design Pressure (psf) for Small Missile Impact**

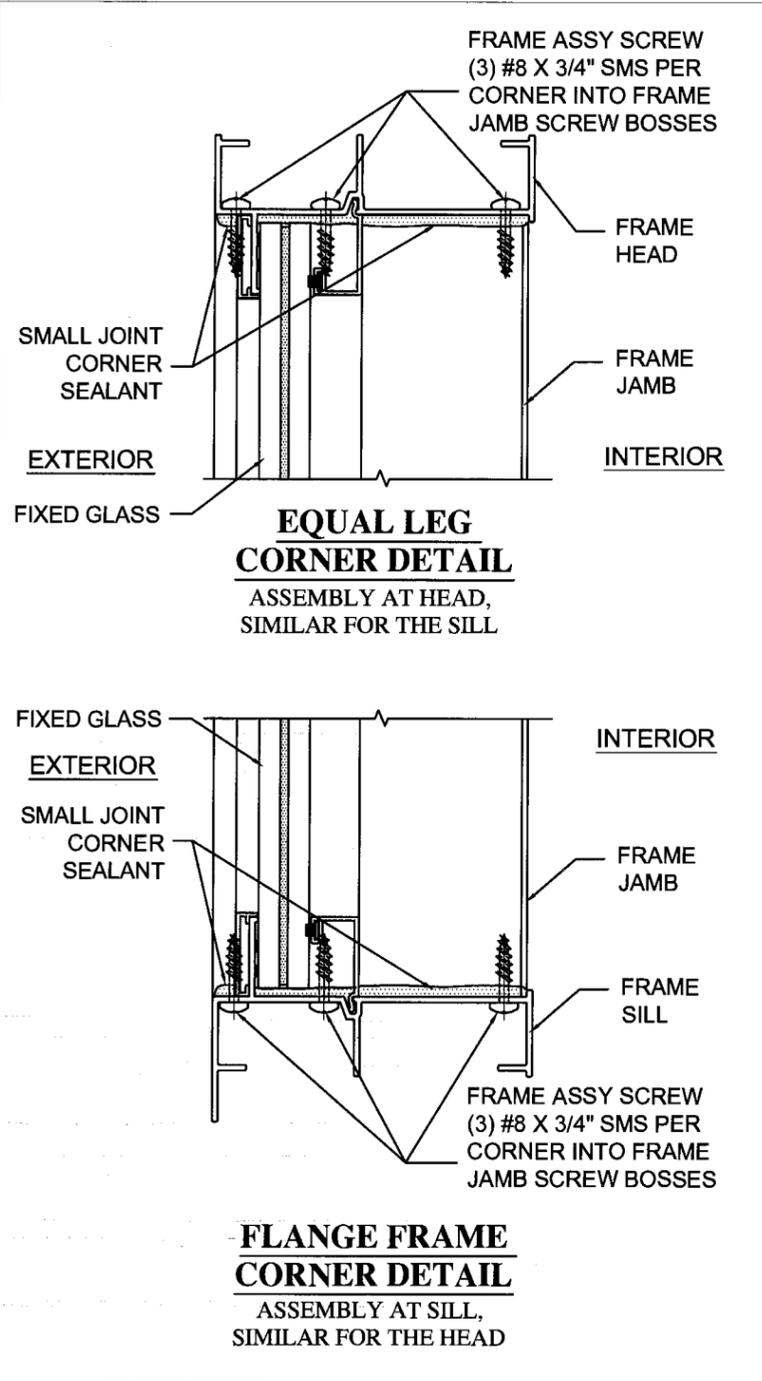
Elevation	Window Size based on Buck Width and Height (in)		Design Pressure (psf)		Impact Rating
			Concrete/Masonry, Wood and Mullion Substrates (see Table 3 for installations in wood substrates)		
	Width	Height	Lami	Lami+IG	
1	up to 53"	up to 96"	110	110	Small Missile Impact
2	up to 60"	up to 108"	110	107	
2	up to 58"	up to 108"	110	110	
2	up to 60"	up to 105"	110	110	
3	60" to 119"	up to 38"	115	115	

**TABLE 3**  
Small Missile Impact - Wood Substrate Installations

Elevation	Window Size based on Buck Width and Height (in)		Design Pressure (psf)	Impact Rating
	Width	Height		
1	47	> 82 to 83	109	Small Missile Impact
1	47	> 91 to 92	108	
1	47	> 92 to 93	107	
1	47	> 93 to 94	105	
1	47	> 94 to 95	104	
1	52 1/8	> 87 to 88	108	
1	52 1/8	> 88 to 89	106	
1	52 1/8	> 89 to 90	105	
1	52 1/8	> 90 to 91	103	
1	52 1/8	> 91 to 92	101	
1	52 1/8	> 92 to 93	100	
1	52 1/8	> 93 to 94	98	
1	52 1/8	> 94 to 95	97	
1	52 1/8	> 95 to 96	96	
1	53	> 79 to 80	108	
1	53	> 80 to 81	106	
1	53	> 81 to 82	104	
1	53	> 82 to 83	102	
1	53	> 86 to 87	109	
1	53	> 87 to 88	107	
1	53	> 88 to 89	104	
1	53	> 89 to 90	104	
1	53	> 90 to 91	102	
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1	53	> 94 to 95	96	
1	53	> 95 to 96	106	
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2	52 1/8	> 97 to 98	105	
2	52 1/8	> 98 to 99	103	
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2	52 1/8	> 104 to 105	95	
2	52 1/8	> 105 to 106	94	
2	52 1/8	> 106 to 107	93	
2	52 1/8	> 107 to 108	92	
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2	53	> 101 to 102	98	
2	53	> 102 to 103	97	
2	53	> 103 to 104	95	
2	53	> 104 to 105	94	
2	53	> 105 to 106	93	
2	53	> 106 to 107	92	
2	53	> 107 to 108	91	

**TABLE 3 - continued**  
Small Missile Impact - Wood Substrate Installations

Elevation	Window Size based on Buck Width and Height (in)		Design Pressure (psf)	Impact Rating
	Width	Height		
2	60	> 69 to 70	109	Small Missile Impact
2	60	> 70 to 71	106	
2	60	> 76 to 77	108	
2	60	> 77 to 78	106	
2	60	> 78 to 79	104	
2	60	> 79 to 80	102	
2	60	> 80 to 81	100	
2	60	> 81 to 82	98	
2	60	> 82 to 83	96	
2	60	> 83 to 84	108	
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2	60	> 101 to 102	91	
2	60	> 102 to 103	89	
2	60	> 103 to 104	88	
2	60	> 104 to 105	87	
2	60	> 105 to 106	86	
2	60	> 106 to 107	85	
2	60	> 107 to 108	93	



**NOTES:**  
 1- FOR EQUAL LEG WINDOWS, BUCK DIMENSIONS ARE THE SAME AS WINDOW DIMENSIONS.  
 2- FOR FLANGE WINDOWS, BUCK DIMENSIONS ARE 1" LESS THAN WINDOW DIMENSIONS.  
 3- LAMI: LAMINATED GLASS  
 4- IG: INSULATED GLASS

PROJECT #309-0212

Florida Extruders International, Inc.  
 2540 Jewett Lane  
 Sanford, Florida 32771-1687

Robert J. Amoroso, P.E.  
 FL License no. 49752

PTC, LLC  
 1535 N. Cogswell Street, Suite C25  
 Rockledge, Florida 32955  
 Phone 321.690.1788  
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 FBPE Certificate of Authorization NO. 25935

Approved as complying with the Florida Building Code  
 Date: **SEPT 16 2009**  
 RJA 09-0514-DE  
 Miami-Dade Product Control  
 By: *M. Manuel*

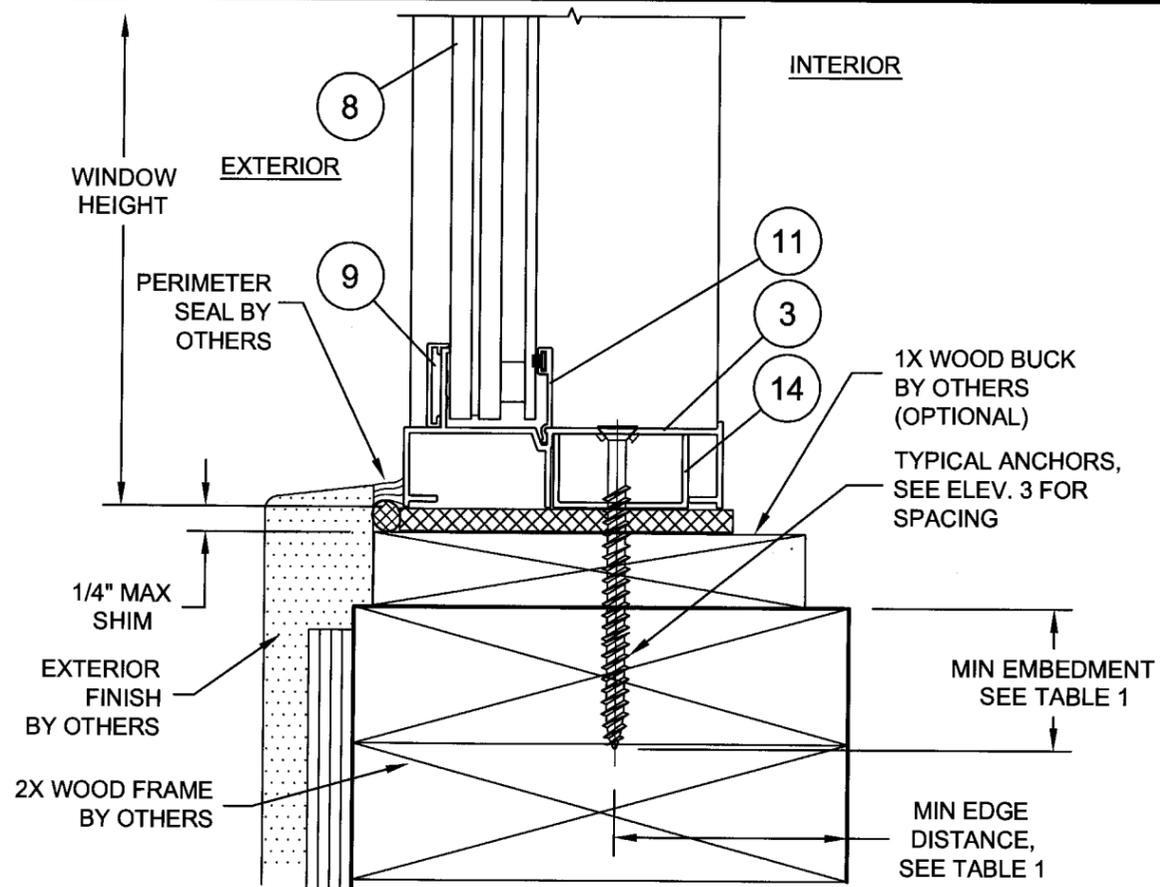
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 DRAWING NO: FEI0004  
 SHEET: 3 OF 9

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 REV: A

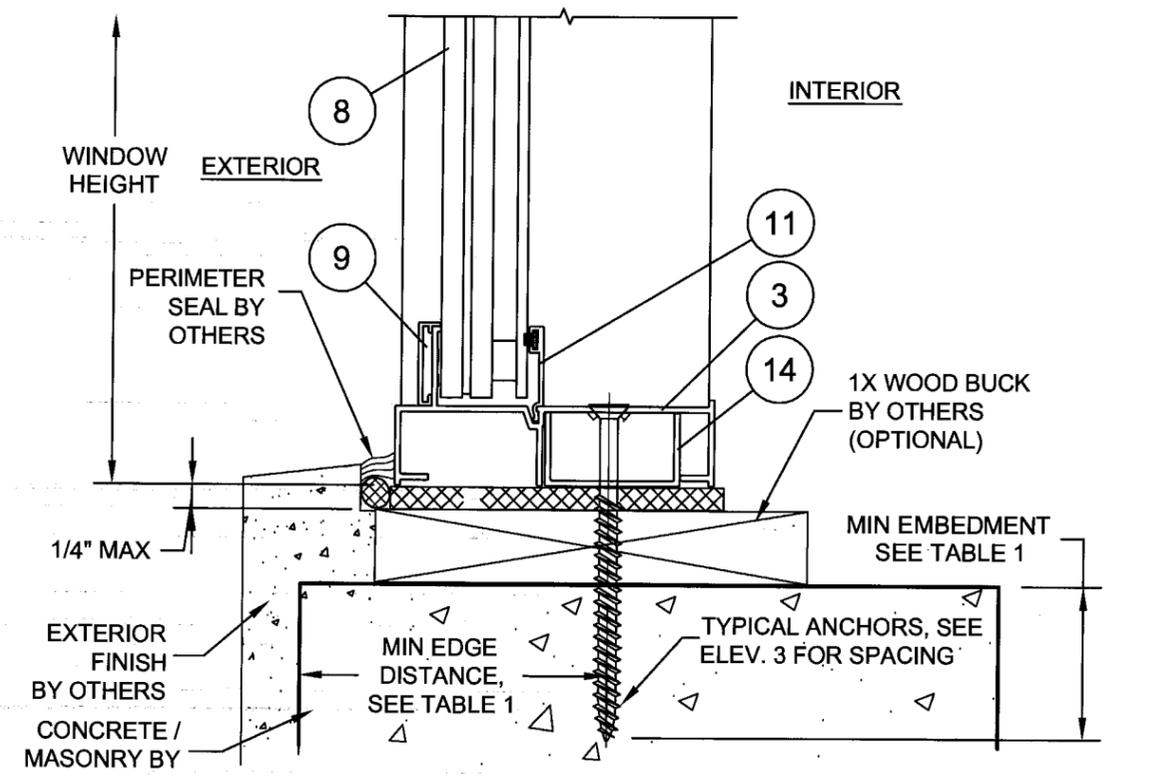
CD 07/15/09  
 DATE  
 BY

Change "exception" for "installations" in tables.  
 A REV DESCRIPTION

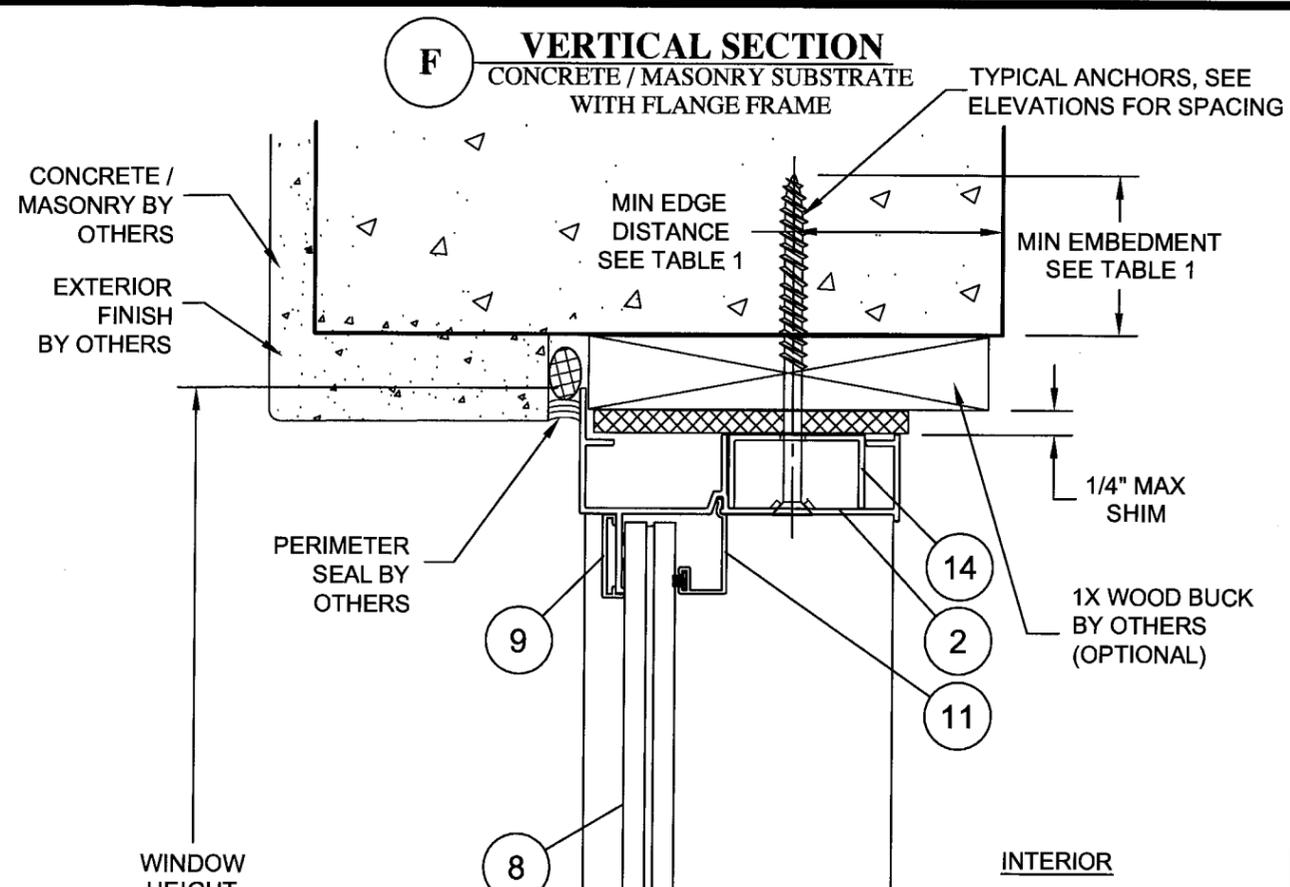
PREPARED BY: **FIE**  
 PTC, LLC  
 Phone 321.690.1788  
 Fax 321.690.1789



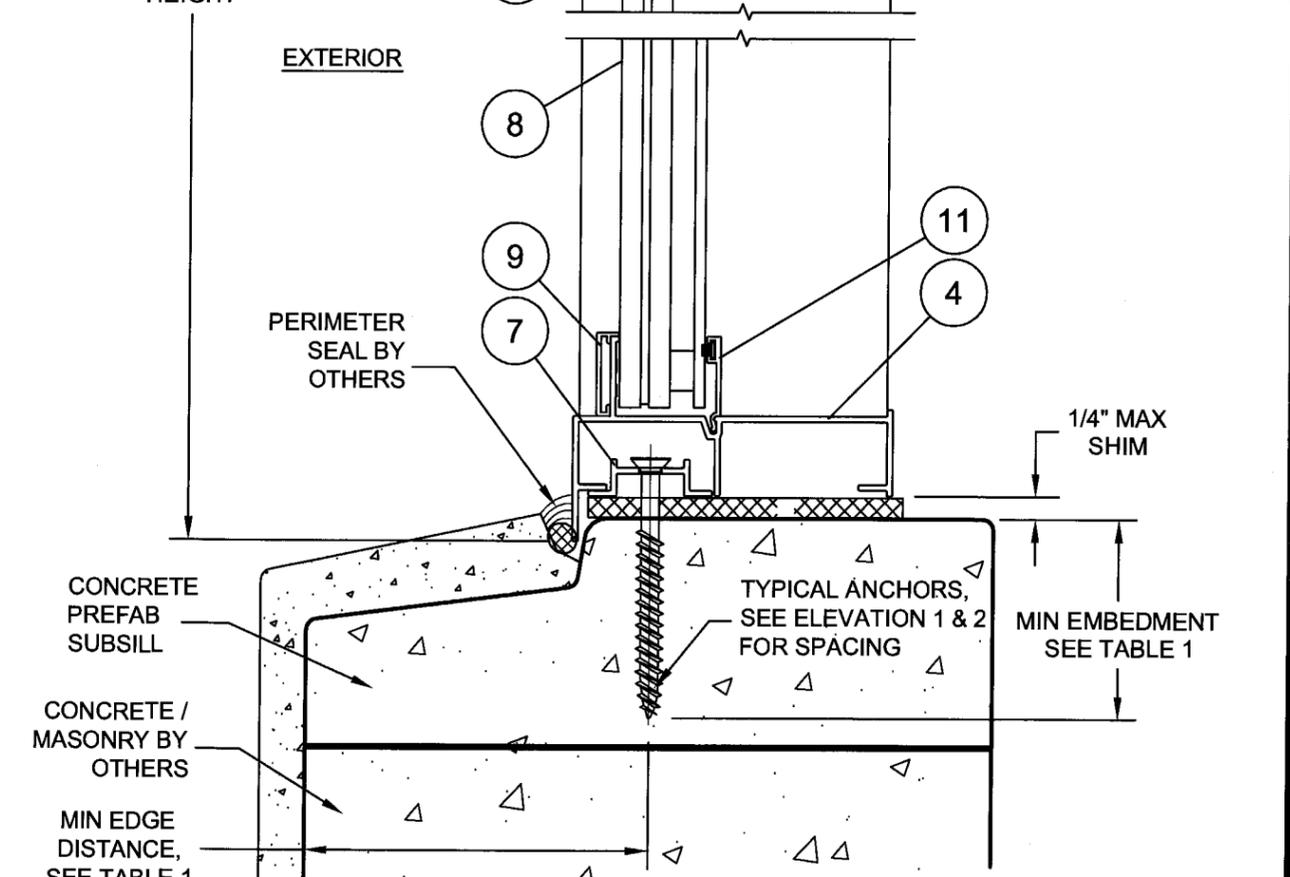
**E** VERTICAL SECTION  
WOOD FRAME SUBSTRATE  
WITH EQUAL LEG FRAME



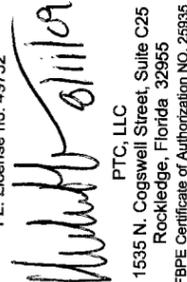
**E** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH EQUAL LEG FRAME



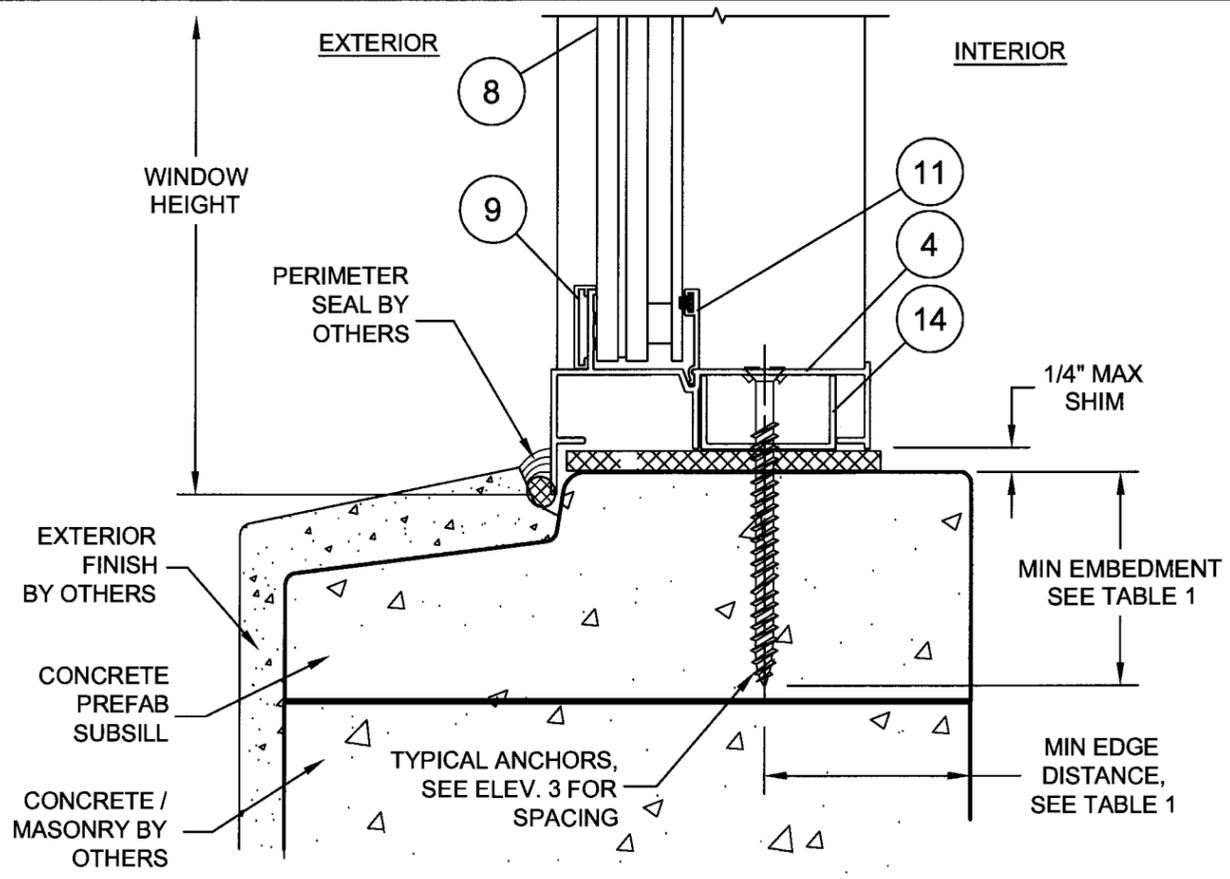
**F** VERTICAL SECTION  
CONCRETE / MASONRY SUBSTRATE  
WITH FLANGE FRAME



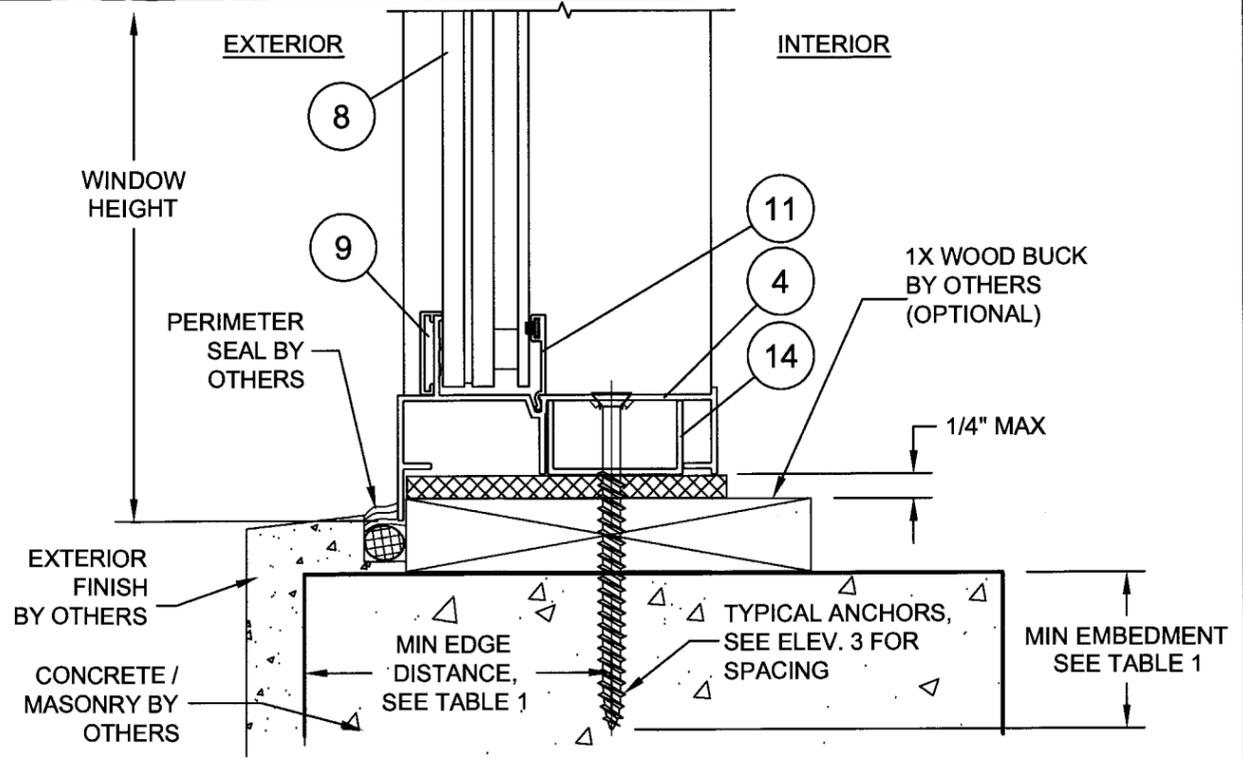
**G** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH FLANGE FRAME

PROJECT #309-0212 Robert J. Amoroso, P.E. FL. License no. 49752  1535 N. Cogswell Street, Suite C25 Rockledge, Florida 32955 FBPE Certificate of Authorization NO. 25935		PREPARED BY: <b>PTC</b> PTC, LLC Phone 321.690.1788 Fax 321.690.1789
TITLE: MILESTONE SERIES 5000 ALUMINUM FIXED WINDOWS VERTICAL SECTIONS		DRAWN BY: C.D. SCALE: 1:2 REV: A
DATE: 04/09/09		DRAWING NO: FE10004 SHEET: 5 OF 9
FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA 32771-1687		Expand details scale to 1/2 size. DATE 07/16/09 CD BY

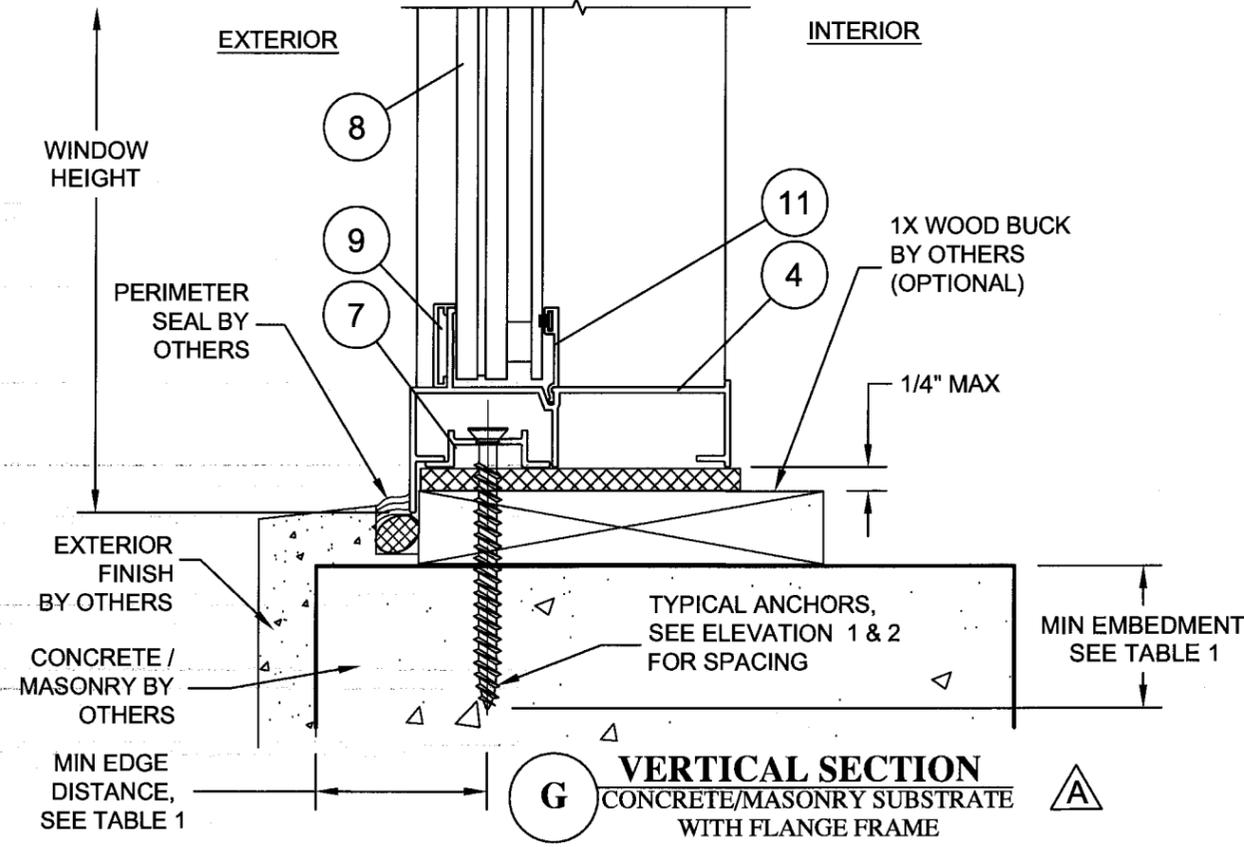
Approved as complying with the  
Florida Building Code  
Date SEP 16 2009  
NOA# 09-0519-06  
Miami Trade Product Control  
By [Signature]



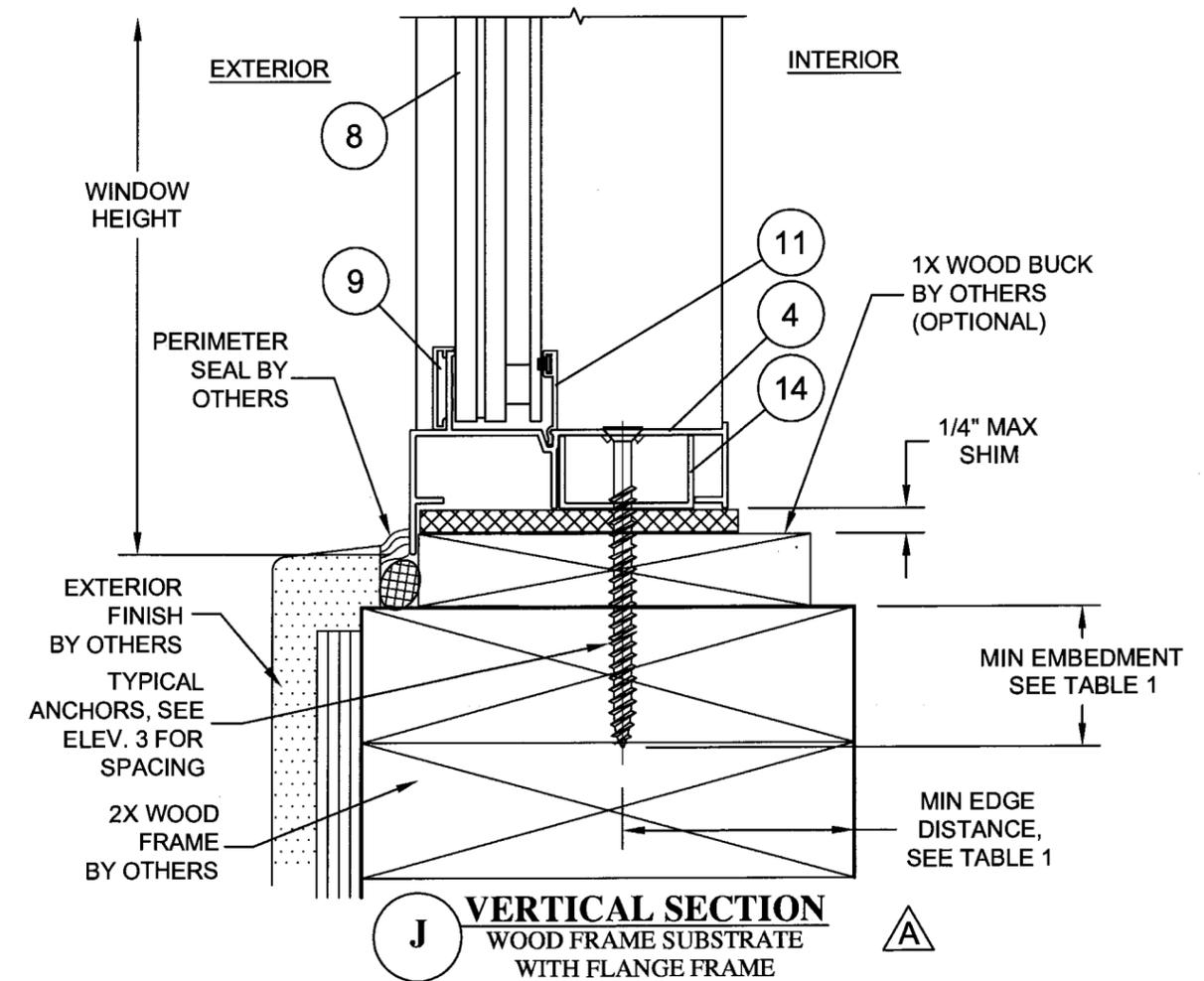
**J** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH FLANGE FRAME **A**



**J** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH FLANGE FRAME **A**

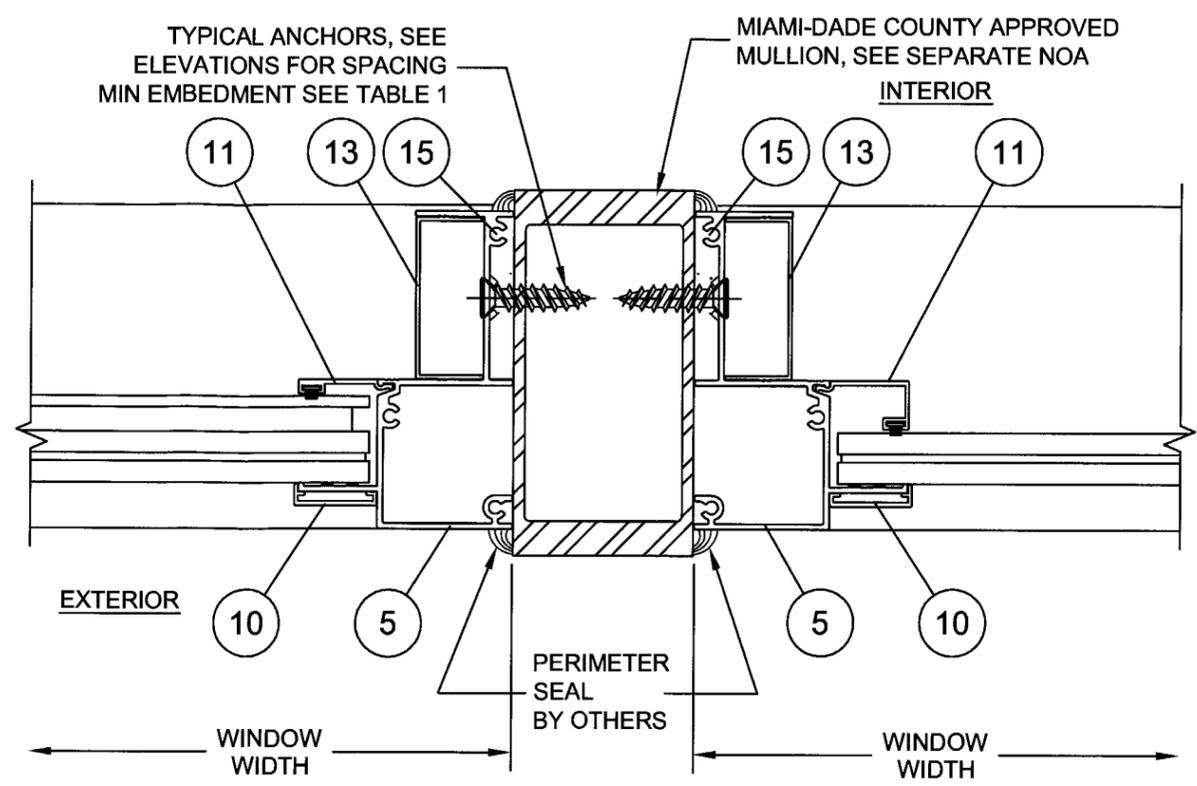
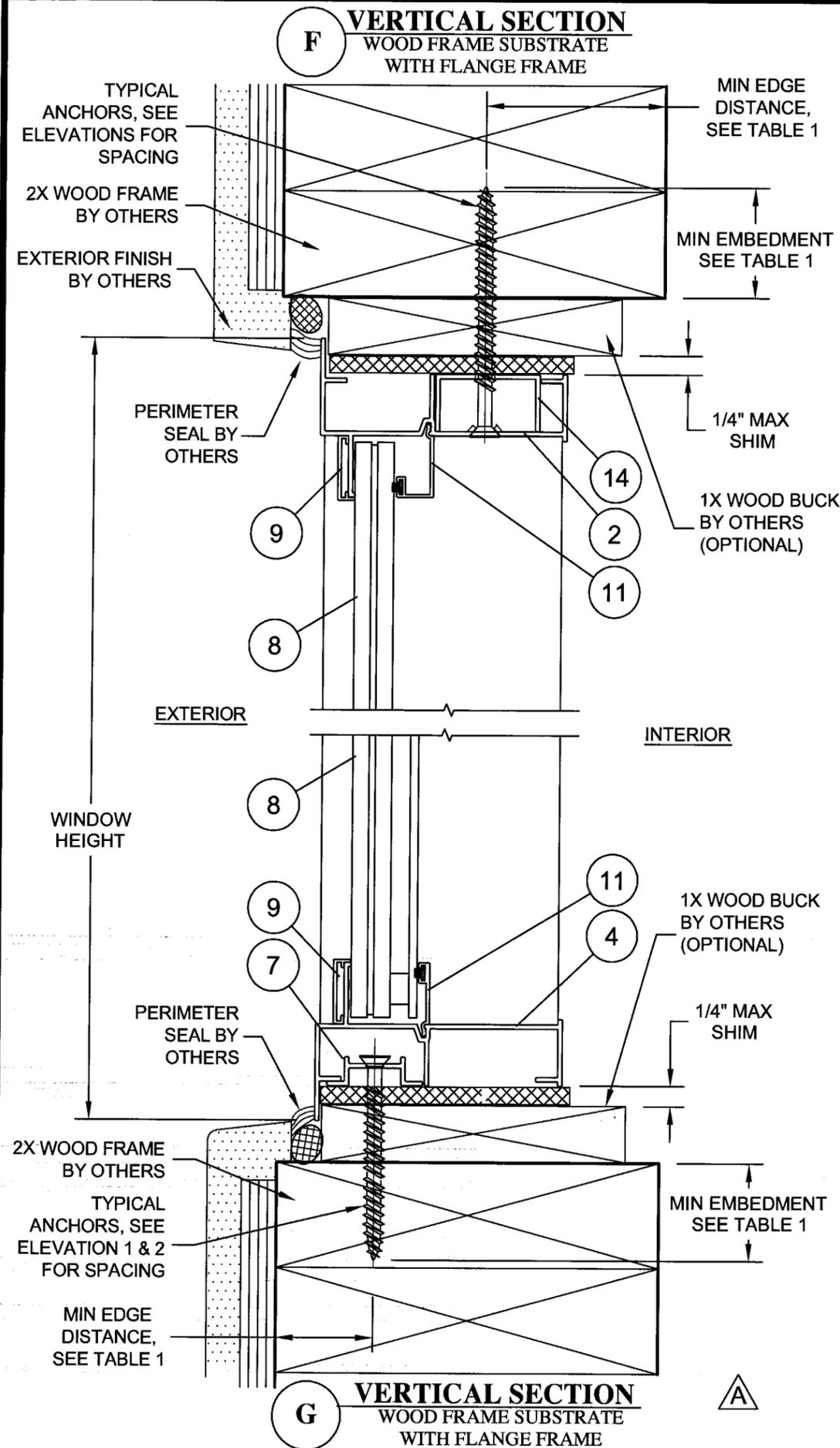


**G** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH FLANGE FRAME **A**

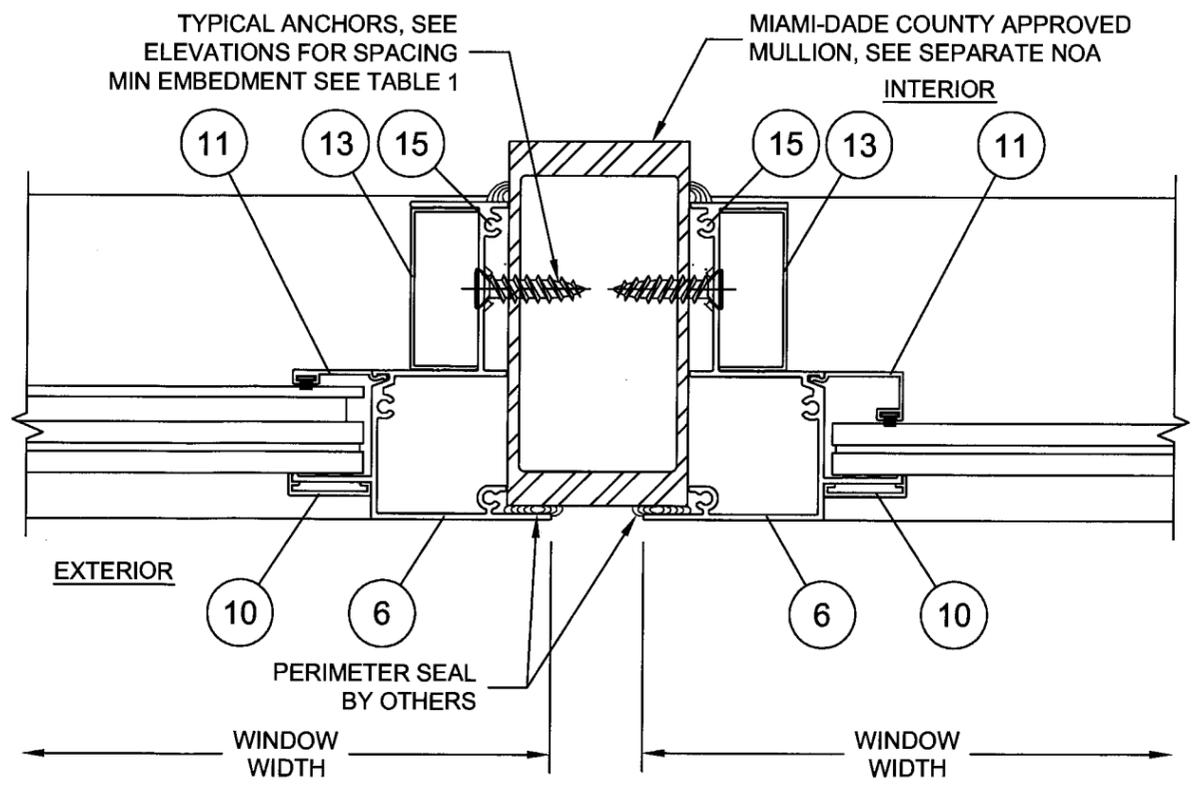


**J** VERTICAL SECTION  
WOOD FRAME SUBSTRATE  
WITH FLANGE FRAME **A**

PROJECT #309-0212 Robert J. Amoroso, P.E. FL License no. 49752 1535 N. Cogswell Street, Suite C25 Rockledge, Florida 32955 FBPE Certificate of Authorization NO. 26995		TITLE: MILESTONE SERIES 5000 ALUMINUM FIXED WINDOWS VERTICAL SECTIONS DRAWN BY: C.D. SCALE: 1:2 REV: A	DATE: 04/09/09 DRAWING NO: FE10004 SHEET: 6 OF 9	CD 07/16/09 DATE BY
PREPARED BY: <i>M. J. Amoroso</i> PTC, LLC 1535 N. Cogswell Street, Suite C25 Rockledge, Florida 32955 Phone 321.660.1788 Fax 321.660.1789		Florida Extruders International, Inc. 2540 Jewett Lane Sanford, Florida 32771-1687		
Approved as engineering with the Florida Building Code Date 5/27/09 NO. 09-0514-02 Michael Wade Probert, C.S.P. By: <i>Mauro J. Amoroso</i>				



**HORIZONTAL SECTION**  
2x4 ALUMINUM TUBE MULLION  
WITH EQUAL LEG FRAME



**HORIZONTAL SECTION**  
2x4 ALUMINUM TUBE MULLION  
WITH FLANGE FRAME

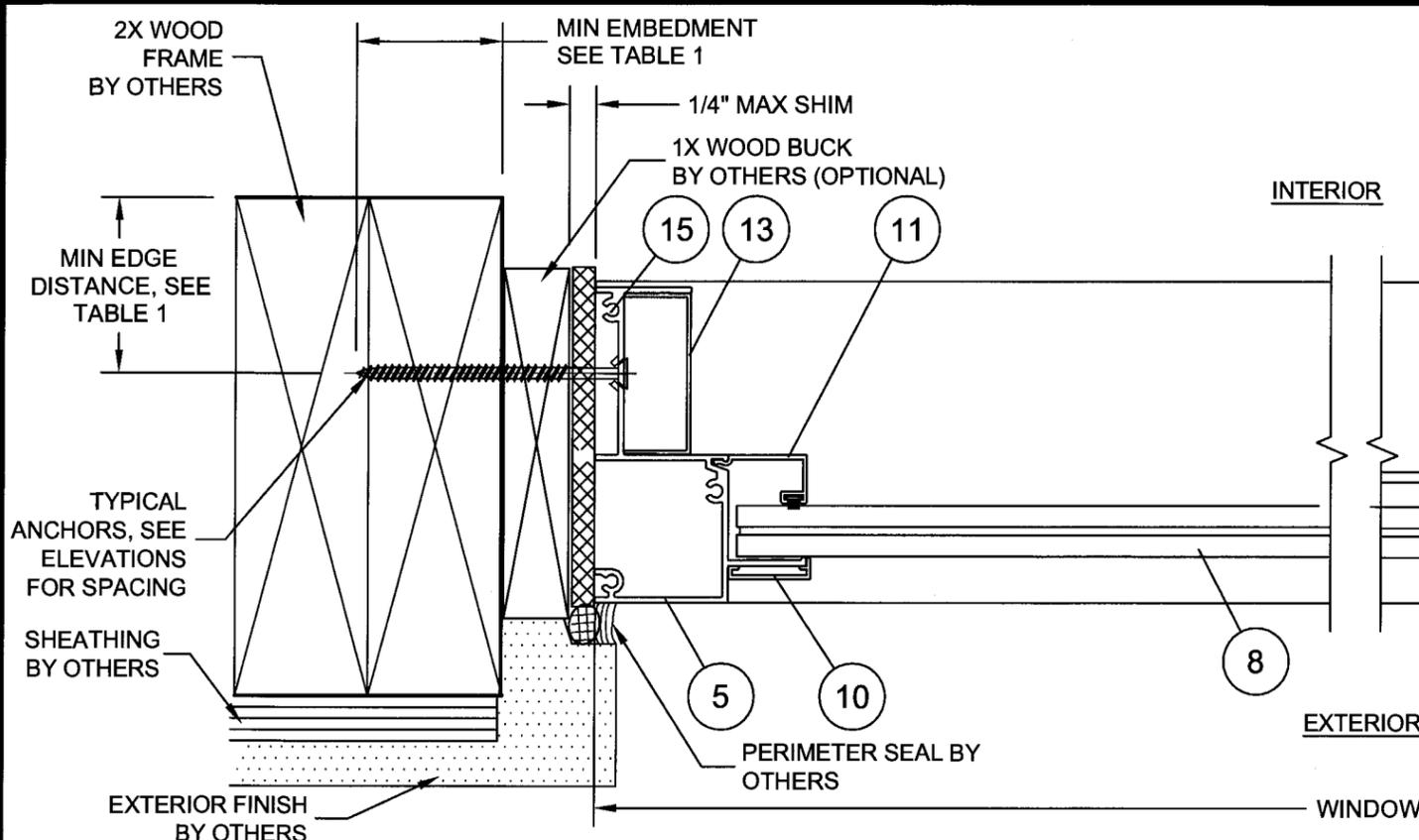
PROJECT #309-0212		DATE: 04/09/09		CD	
Robert J. Amoruso, P.E. FL License no. 49752		DRAWING NO: FE10004		07/17/09	
1535 N. Cogswell Street, Suite C25 Rockledge, Florida 32955		SCALE: 1:2		DATE	
FBPE Certificate of Authorization NO. 25935		REV: A		DESCRIPTION	
SHEET: 7 OF 9		EXPAND DETAILS SCALE TO 1/2 SIZE.		BY	

**FLORIDA EXTRUDERS INTERNATIONAL, INC.**  
2540 JEWETT LANE  
SANFORD, FLORIDA 32771-1687

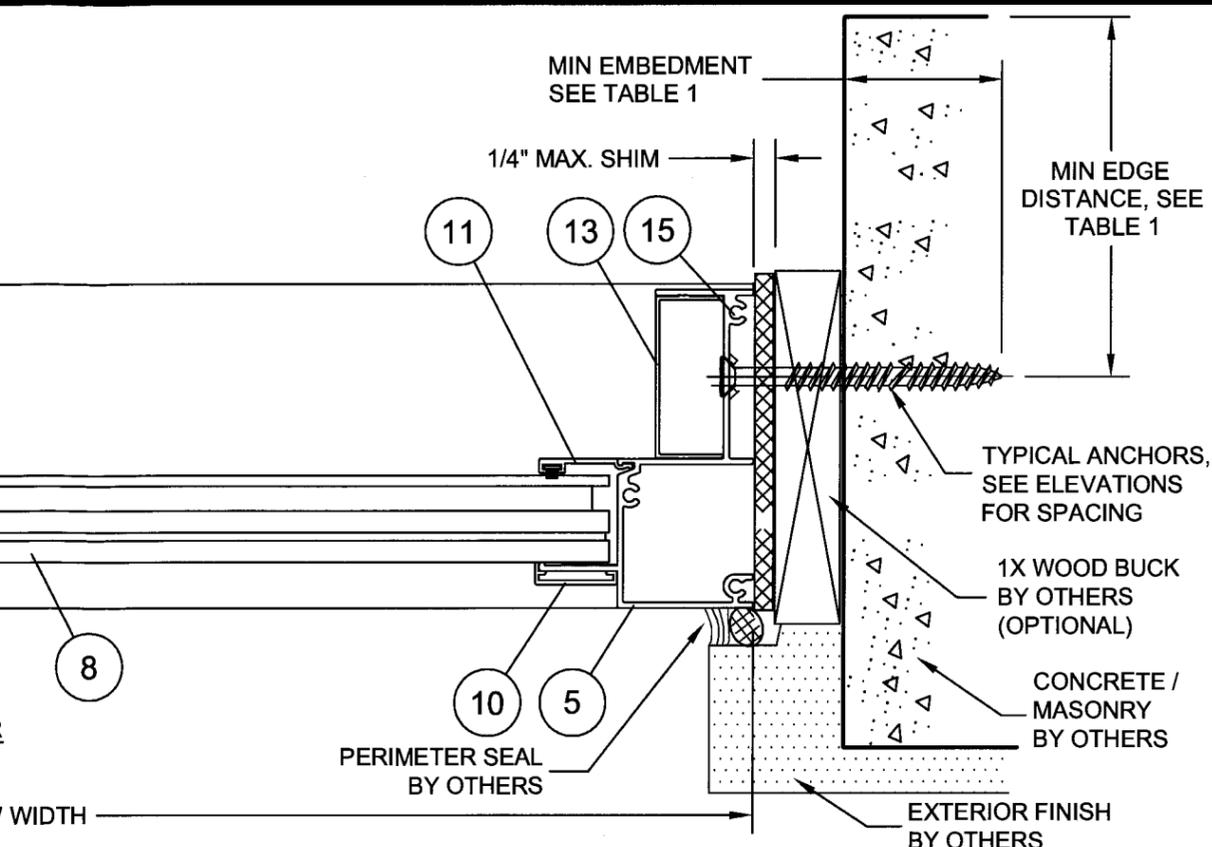
TITLE: MILESTONE SERIES 5000 ALUMINUM FIXED WINDOWS  
VERTICAL & HORIZONTAL SECTIONS

PREPARED BY: PTC, LLC  
Phone 321.690.1788  
Fax 321.690.1789

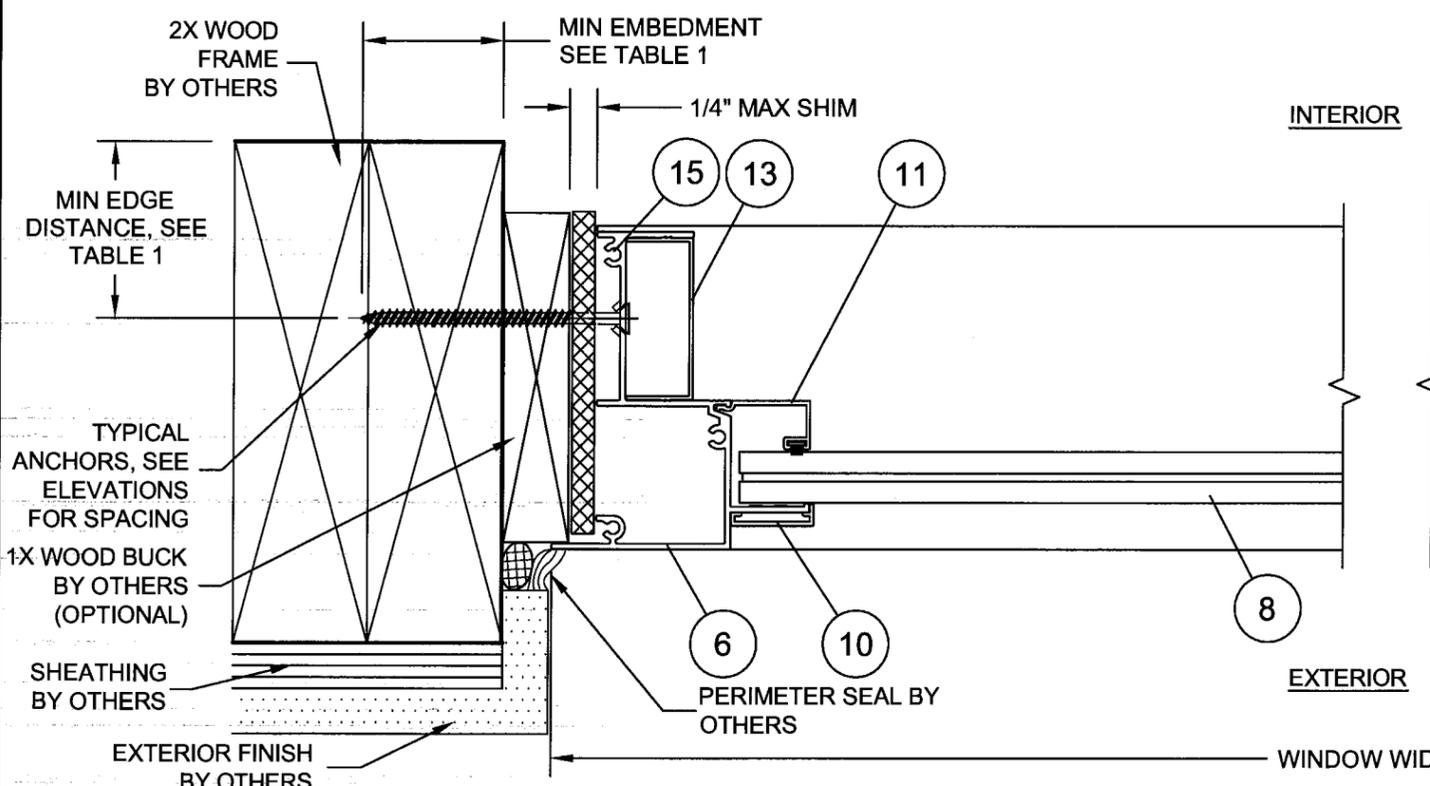
APPROVED AS COMPLYING WITH THE  
FLORIDA BUILDING CODE  
DATE: SEPT. 16, 2009  
NOA# 09-0519.06  
Miscal Draft Product Control  
Given by: Manuel J. Jiles



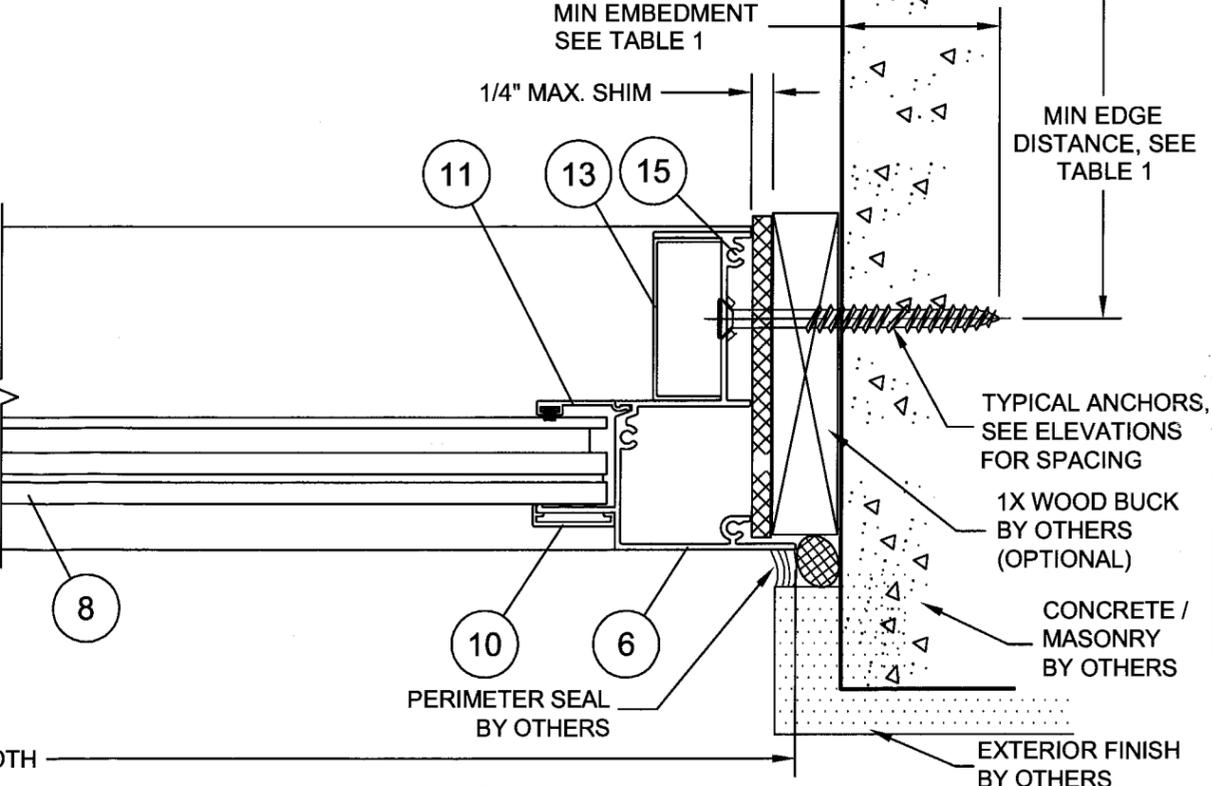
**C HORIZONTAL SECTION**  
WOOD FRAME SUBSTRATE  
WITH EQUAL LEG FRAME



**D HORIZONTAL SECTION**  
CONCRETE / MASONRY SUBSTRATE  
WITH EQUAL LEG FRAME



**H HORIZONTAL SECTION**  
WOOD FRAME SUBSTRATE  
WITH FLANGE FRAME



**I HORIZONTAL SECTION**  
CONCRETE / MASONRY SUBSTRATE  
WITH FLANGE FRAME

CD	BY
07/17/09	DATE
A	REV
Expand details scale to 1/2 size.	DESCRIPTION

**FLORIDA EXTRUDERS INTERNATIONAL, INC.**  
2540 JEWETT LANE  
SANFORD, FLORIDA 32771-1687

TITLE: MILESTONE SERIES 5000 ALUMINUM FIXED WINDOWS HORIZONTAL SECTIONS

DATE: 04/09/09  
DRAWING NO: FEI0004  
SHEET: 8 OF 9

SCALE: 1:2  
REV: A

PREPARED BY: PTC, LLC  
Phone 321.690.1788  
Fax 321.690.1789

PROJECT #309-0212

Robert J. Amoroso, P.E.  
FL License no. 49752

08/11/09

PTC, LLC  
1535 N. Cogswell Street, Suite C25  
Rockledge, Florida 32955

FBPE Certificate of Authorization NO. 25935

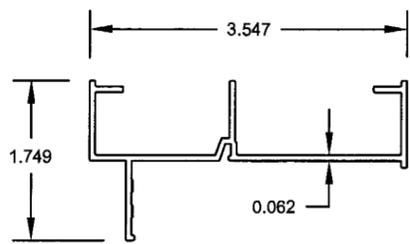
Approved as complying with the Florida Building Code

Date: 08-16-2009  
MOA#: 05-0519-06

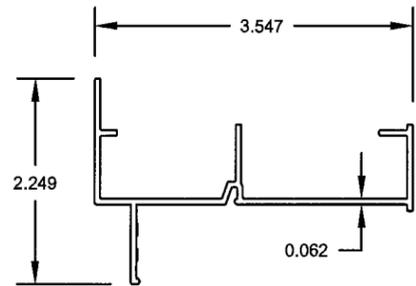
Misses Trade Product Control

By: *Manuel Silva*

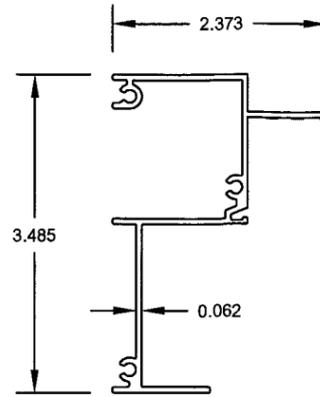
**1 3 FRAME HEAD OR SILL-EQ LEG**



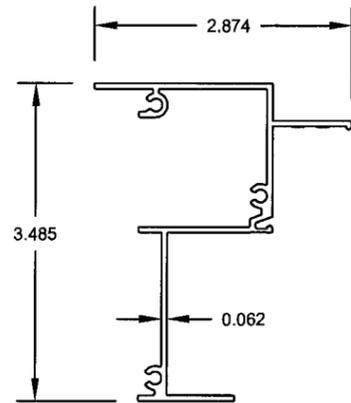
**2 4 FRAME HEAD OR SILL-FLANGE**



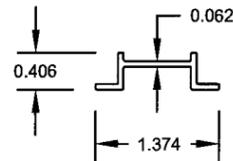
**5 FRAME JAMB-EQ LEG**



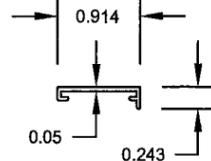
**6 FRAME JAMB-FLANGE**



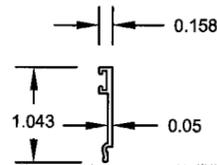
**7 SILL RETAINER**



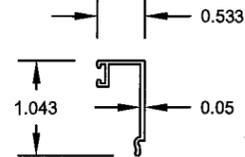
**9 10 MUNTIN ADAPTOR HORIZONTAL OR VERTICAL**



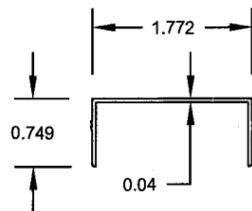
**11 GLAZING BEAD HORIZONTAL OR VERTICAL FOR 1" GLASS**



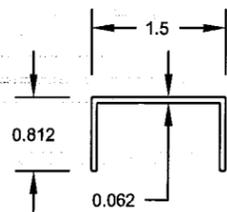
**11 GLAZING BEAD HORIZONTAL OR VERTICAL FOR 9/16" GLASS**



**13 JAMB FILLER**



**14 FRAME HEAD OR SILL FILLER**



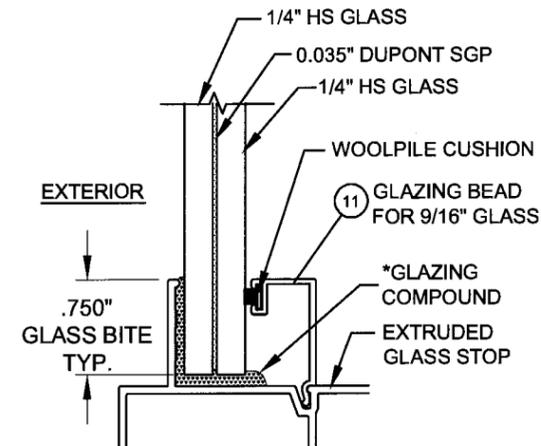
**COMPONENTS**



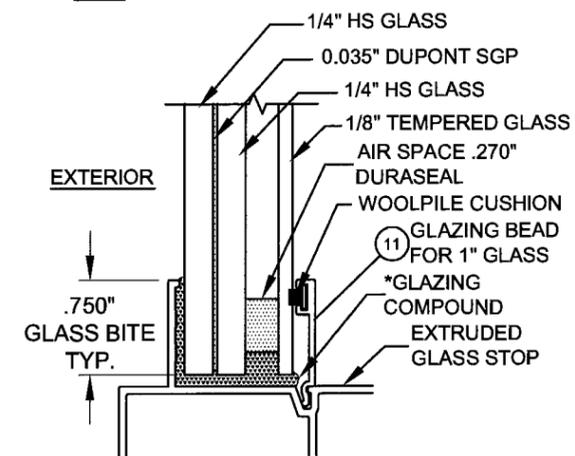
**NOTES:**  
 HS: HEAT STRENGTHENED  
 LAMI: LAMINATED GLASS  
 IG: INSULATED GLASS

**BILL OF MATERIALS**

ITEM #	PART DESCRIPTION	PART # OR FEI 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 5900	ALUM. EXTRUSION (6063-T6)
4	FRAME SILL-FLANGE	FE 5907	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	SILL RETAINER	FE 5910	ALUM. EXTRUSION (6063-T6)
8	FIXED GLASS	NA	SEE GLAZING DETAILS
9	MUNTIN ADAPTER HORIZONTAL	FE 5911	ALUM. EXTRUSION (6063-T6)
10	MUNTIN ADAPTER VERTICAL	FE 5911	ALUM. EXTRUSION (6063-T6)
11	1" GLAZING BEAD 9/16" GLAZING BEAD	FE 5912 FE 5914	ALUM. EXTRUSION (6063-T6)
13	JAMB FILLER	FE 5918	ALUM. EXTRUSION (6063-T6)
14	FRAME HEAD OR SILL FILLER	FE 5922	ALUM. EXTRUSION (6063-T6)
15	FRAME ASSEMBLY SCREW	NA	#8 x 3/4" PN SMS SS



**9/16" LAMI GLAZING DETAIL  
GLASS TYPE "C"**



**1" LAMI+IG GLAZING DETAIL  
GLASS TYPE "D"**



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

**FLORIDA EXTRUDERS INTERNATIONAL, INC.**  
 2540 JEWETT LANE  
 SANFORD, FLORIDA 32771-1687

**MILESTONE SERIES 5000 ALUMINUM FIXED WINDOWS  
BOM, COMPONENTS & GLAZING DETAILS**

DATE: 04/09/09  
 DRAWING NO: FEI0004  
 SCALE: 1:2  
 SHEET: 9 OF 9



PROJECT #309-0212

Robert J. Amoroso, P.E.  
 FL License no. 49752

*W. J. ... 8/11/09*

PTC, LLC  
 1535 N. Cogswell Street, Suite C25  
 Rockledge, Florida 32955  
 FBPE Certificate of Authorization NO. 25935

Approved as complying with the Florida Building Code

By: *W. J. ...*  
 Title: *Product Control*

CD 07/17/09  
 DATE  
 DESCRIPTION  
 Change bite to 1" glass type, glazing compound