



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Unilux, AG
Industriegebiet
Nikolaus Meeth Strasse 1
DE54528 Salmtal, Germany

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 RER - 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. RER 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 "F" and "FF" Aluminum Clad Wood Fixed Window – L.,M.I.

APPROVAL DOCUMENT: Drawing No. **08-01289**, titled: Series "F" and "FF" Aluminum Clad Wood Fixed Window 84" x 96", sheets 1 through 8 of 8, dated 12/13/11, with revision A dated 01/02/13, prepared by manufacturer, signed and sealed by Luis R. Lomas, 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 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 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
2/16/13

NOA No. 12-0625.06
Expiration Date: February 14, 2018
Approval Date: February 14, 2013
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-01289**, titled: Series "F" and "FF" Aluminum Clad Wood Fixed Window 84" x 96", sheets 1 through 8 of 8, dated 12/13/11, with revision A dated 01/02/13, prepared by manufacturer, signed and sealed by Luis R. Lomas, 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 a Unilux Fenster und Turen series "F" aluminum clad wood fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3681-1**, dated 11/30/10, and addendum letter dated 09/09/12, both signed and sealed by Gerard J. 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) 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 Unilux Fenster und Turen series "FF" aluminum clad fixed in-sash wood window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3682-1**, dated 06/10/11, and addendum letter dated 09/09/12, both signed and sealed by Gerard J. Ferrara, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 07/26/11, prepared, signed and sealed by Luis R. Lomas, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)


Manuel Perez, P.E.
Product Control Examiner

NOA No. 12-0625.06

Expiration Date: February 14, 2018

Approval Date: February 14, 2013

Unilux, AG

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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-2010, and of no financial interest, dated January 24, 2012, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory Compliance Letter statement, issued by National Certified Testing Laboratories for Test Report No. **NCTL-210-3681-1**, dated 06/17/11, signed and sealed by Gerard J. Ferrara, P.E.
3. Laboratory Compliance Letter statement, issued by National Certified Testing Laboratories for Test Report No. **NCTL-210-3682-1**, dated 02/16/12, signed and sealed by Gerard J. Ferrara, P.E.
4. Distributor Agreement between Vision **Unilux AG, Salmtal, Germany**, and Omega Material Alliance, Astatula, FL 34705 USA, dated 06/11/12, signed by Alfred Meeth and David Kirkpatrick, respectively.

G. OTHER

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0625.06

Expiration Date: February 14, 2018
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	01/02/13	R.L.

NOTES:

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HVHZ.
- 2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 4) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 5) FRAME MATERIAL: WOOD.
- 6) UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 2 FOR GLAZING DETAIL.
- 7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 8) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- 9) FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 10) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 11) FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 3 THREAD MINIMUM EMBEDMENT BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 12) ALL FASTENERS TO BE CORROSION RESISTANT.
- 13) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.46
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

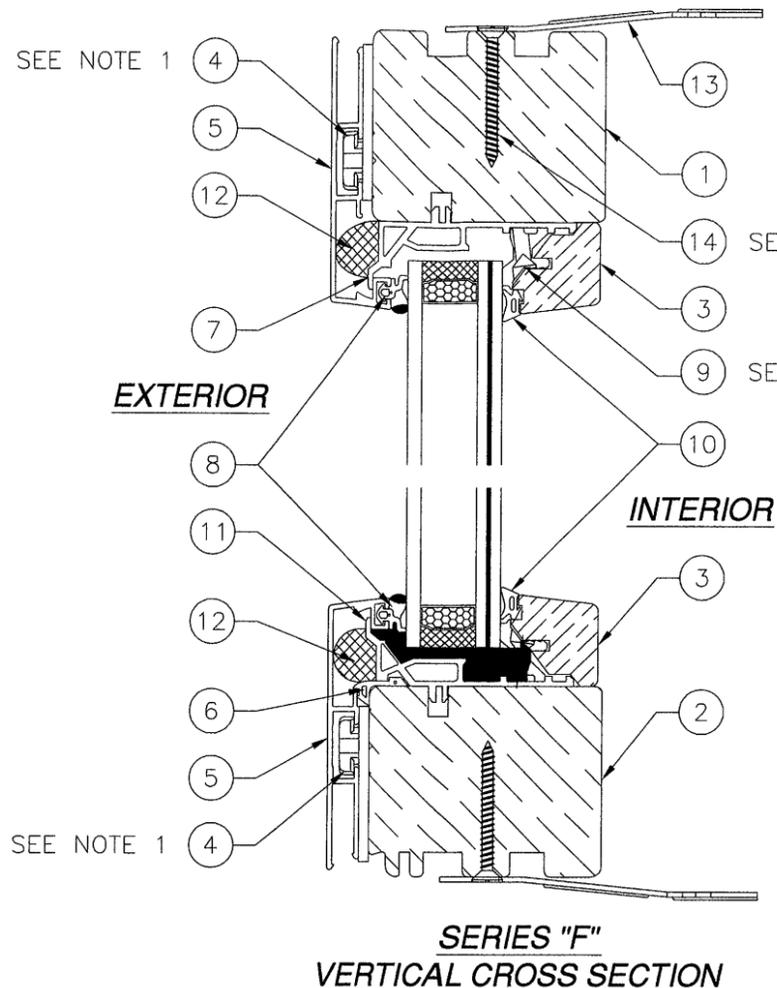
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1 - 2	GENERAL NOTES AND ELEVATIONS
3	B.O.M. CROSS SECTIONS AND GLAZING DETAIL
4 - 8	INSTALLATION DETAILS

<p>Approved as complying with the Florida Building Code Date <u>Feb. 14, 2013</u> NOA# <u>12-0825.06</u> Miami Dade Product Control By: <i>Manuel Lopez</i></p>	<p>UNILUX FENSTER AND TUREN INDUSTRIEGEBIET 54528 SALMTAL</p>			<p><i>Luis R. Lomas</i> <u>01/04/13</u> Luis R. Lomas P.E. Florida No. 62514</p>
	<p>SERIES "F" AND "FF" ALUMINUM CLAD WOOD FIXED WINDOW 84" X 96" GENERAL NOTES</p>			
	<p>DRAWN: R.L.</p>	<p>DWG NO. 08-01289</p>	<p>REV A</p>	
	<p>SCALE NTS</p>	<p>DATE 12/13/11</p>	<p>SHEET 1 OF 8</p>	

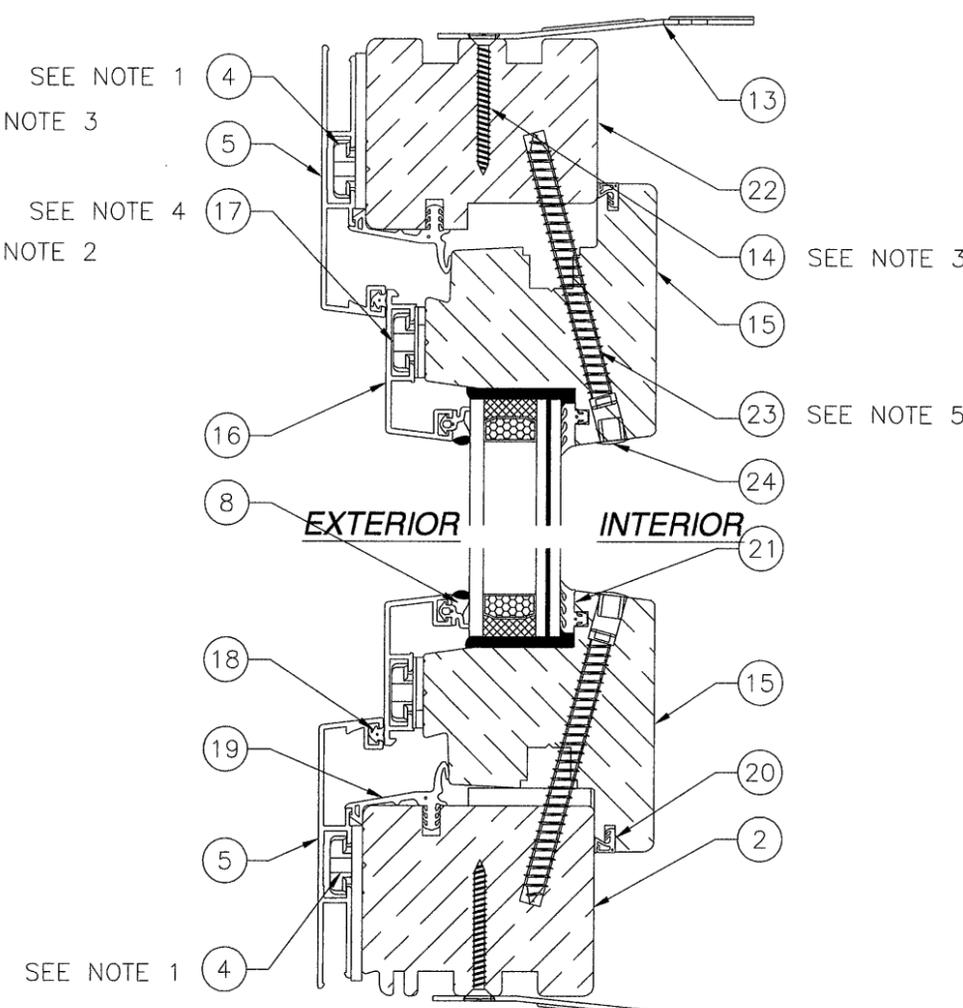
PARTS LIST

NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	F41-0075	FRAME	UNILUX	WOOD G.5
2	F41-0019	FRAME, BOTTOM	UNILUX	WOOD G.5
3	F41-0087	STOP	UNILUX	WOOD G.5
4	E41-0116	CLADDING FASTENER	UNILUX	PLASTIC GF30
5	E43-0002	CLADDING	UNILUX	ALUMINUM 6060-T5
6	E41-1028	CENTER SEAL	UNILUX	RUBBER EPDM
7	E41-0154-1	FASTENER TOP & SIDE	UNILUX	PLASTIC GF30
8	E41-1001	GLAZING GASKET	UNILUX	RUBBER EPDM
9	E41-0155	FASTENER	UNILUX	PLASTIC GF30
10	E41-1022	GLAZING GASKET	UNILUX	RUBBER EPDM
11	E41-0154-2	FASTENER BOTTOM	UNILUX	PVC
12	552	SEALANT	SIKA	
13	E41-2015-2	INSTALLATION CLIP	UNILUX	STEEL
14		4MMX40MM SCREW	UNILUX	STEEL
15	F41-0001	FRAME, SASH	UNILUX	WOOD G.5
16	E43-0001	CLADDING, SASH	UNILUX	ALUMINUM 6060-T5
17	E41-0114	FASTENER SASH CLADDING	UNILUX	PLASTICS GF30
18	E41-1003	FRAME GASKET	UNILUX	RUBBER EPDM
19	E41-1012	FRAME GASKET	UNILUX	RUBBER EPDM
20	E41-1006	SASH GASKET	UNILUX	RUBBER EPDM
21	E41-1002	GLAZING GASKET INTERIOR	UNILUX	RUBBER EPDM
22	F41-0007	FRAME, TOP	UNILUX	WOOD G.5
23		7,5MMX80MM FRAME ANCHOR	SPAX	STAINLESS STEEL
24		COVER CAP	UNILUX	PLASTIC

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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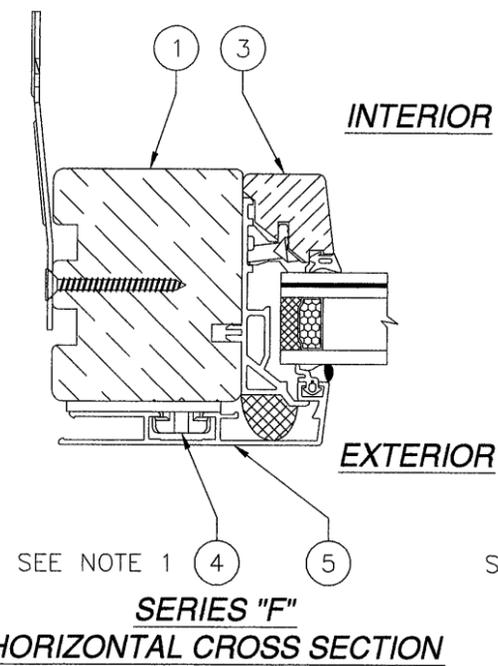


SERIES "F"
VERTICAL CROSS SECTION

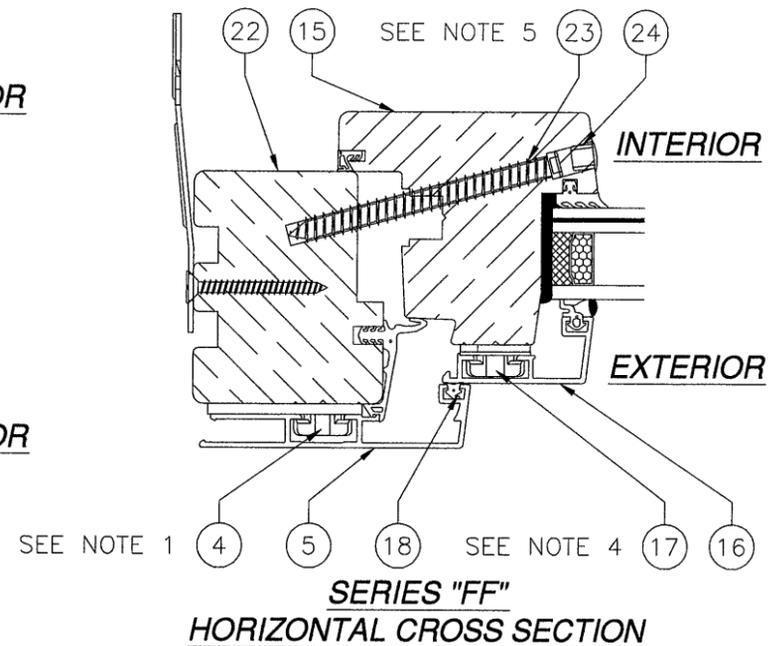


SERIES "FF"
VERTICAL CROSS SECTION

- NOTES:
- ITEM #4, LOCATED @ 6 1/4" FROM EACH END
 - ITEM #9, LOCATED @ 6 1/4" FROM EACH END AND 6" O.C.
 - ITEM #14, INSTALL (1) PER CLIP
 - ITEM #17, LOCATED @ 6 1/4" FROM EACH END
 - ITEM #23, LOCATED @ HEAD AND SILL 8 1/2" FROM EACH END AND 21" O.C. THEREAFTER. LOCATED @ JAMBS 8 1/2" FROM EACH END AND 19" O.C.



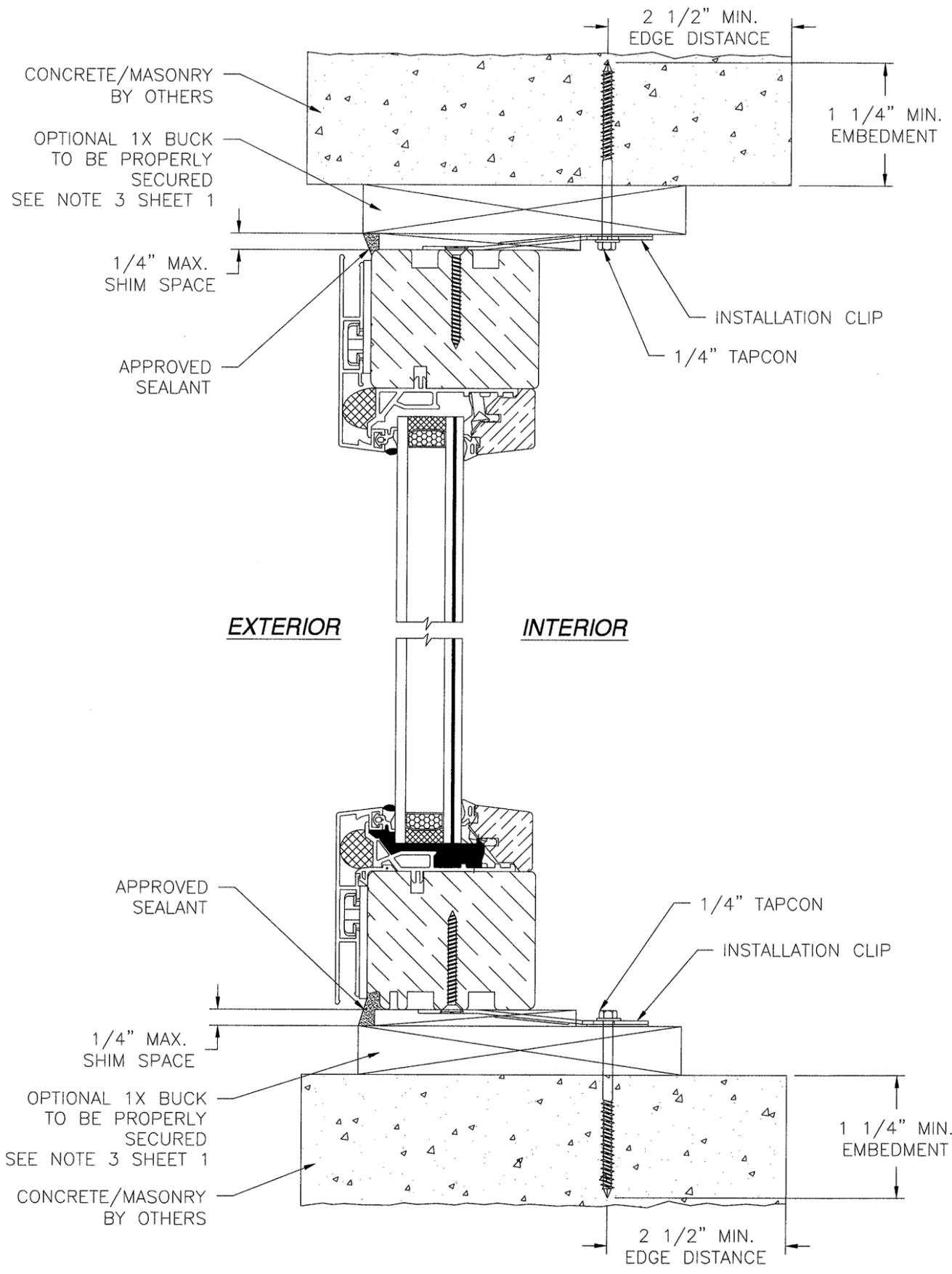
SERIES "F"
HORIZONTAL CROSS SECTION



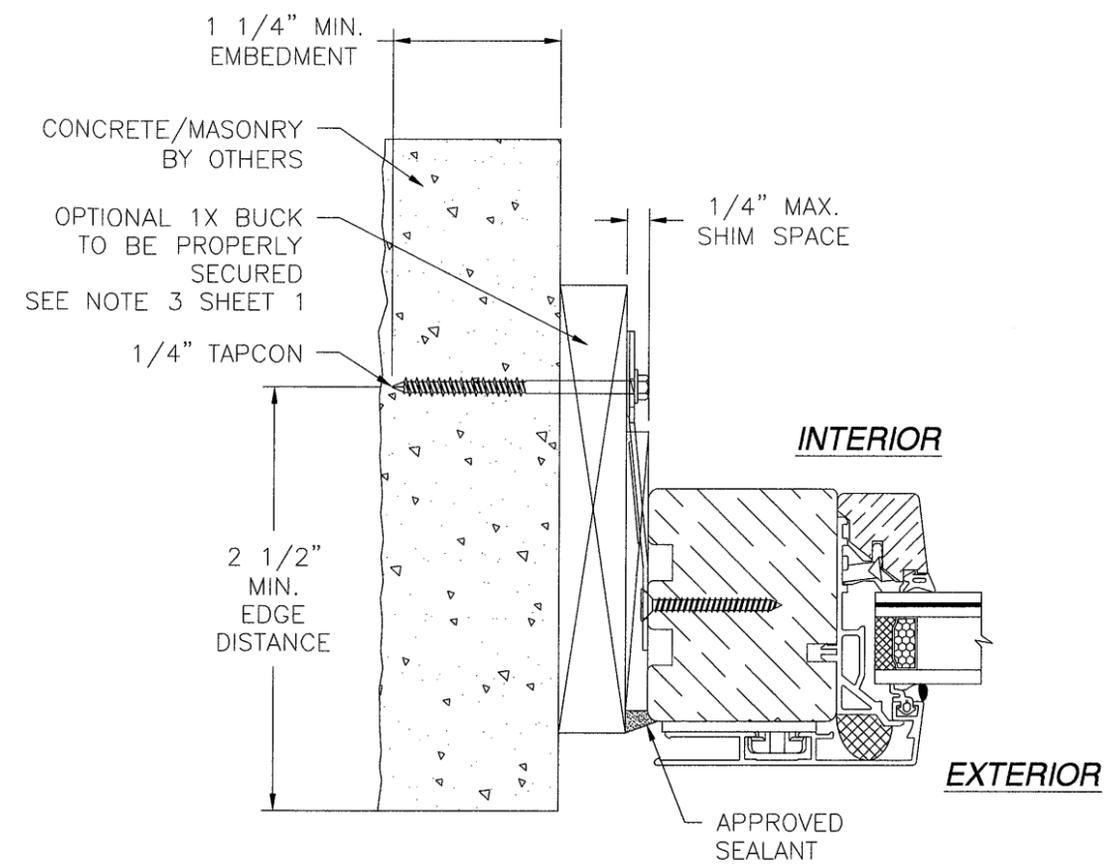
SERIES "FF"
HORIZONTAL CROSS SECTION

Approved as complying with the Florida Building Code Date <u>Feb. 14, 2013</u> NOA# <u>12-0625.06</u> Miami Dade Product Control By <u>Marcus Perez</u>	UNILUX FENSTER AND TUREN INDUSTRIEGEBIET 54528 SALMTAL		 01/04/13
	SERIES "F" AND "FF" ALUMINUM CLAD WOOD FIXED WINDOW 84" X 96" B.O.M. AND CROSS SECTIONS		
DRAWN: R.L.	DWG NO. 08-01289	REV A	Luis R. Lomas P.E. Florida No. 62514
SCALE NTS	DATE 12/13/11	SHEET 3 OF 8	

REVISIONS			
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A
5 VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

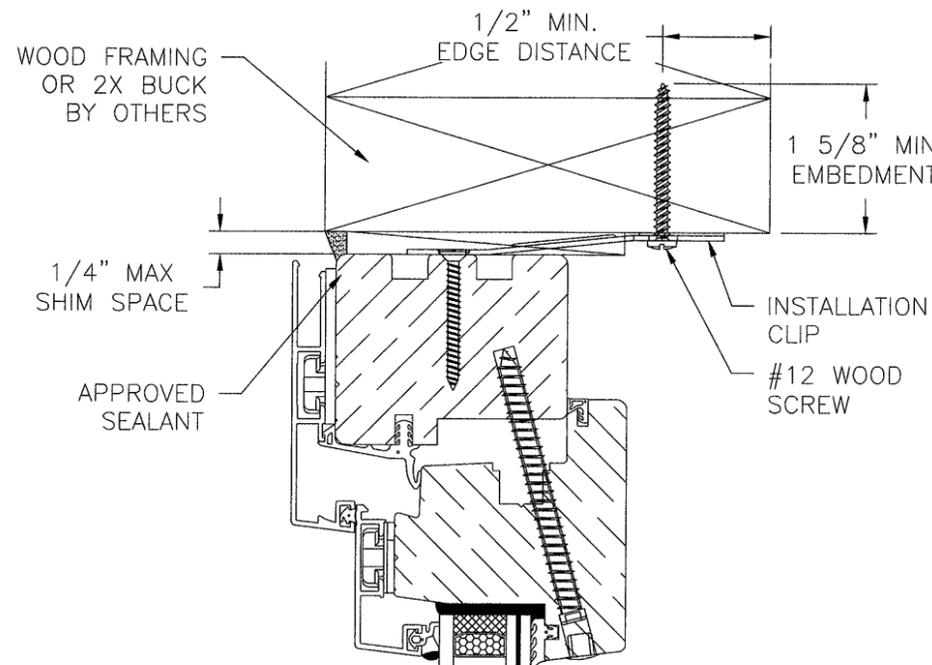


B
5 JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

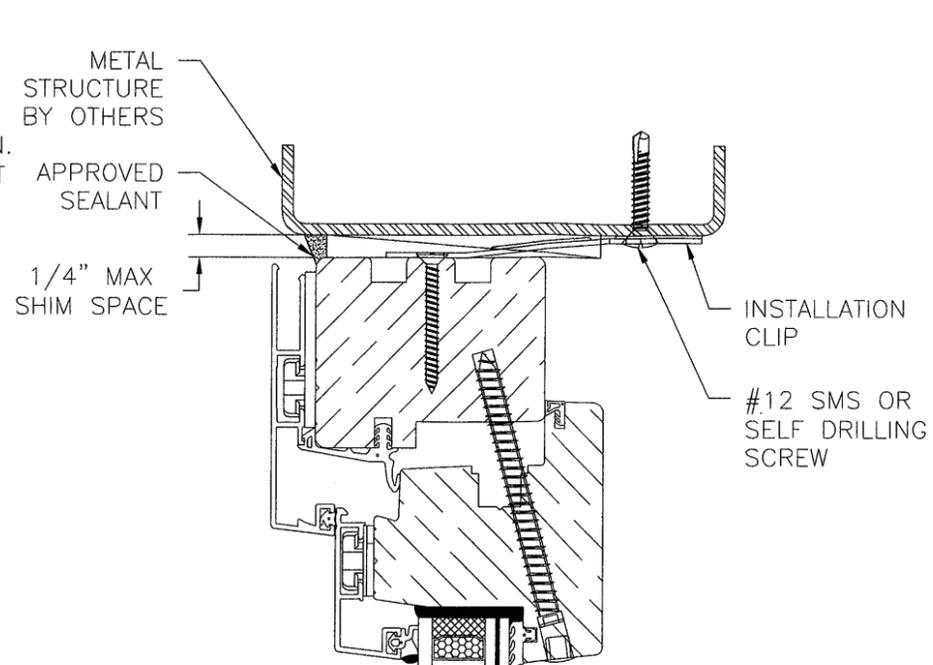
NOTE:
INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.

Approved as complying with the Florida Building Code Date <i>Feb. 14, 2013</i> NOA# <i>12-0625.06</i> Miami Dade Product Control By <i>Manuel Perez</i>	UNILUX FENSTER AND TUREN INDUSTRIEGEBIET 54528 SALMTAL		<i>Luis R. Lomas</i> <i>01/04/13</i> Luis R. Lomas P.E. Florida No. 62514
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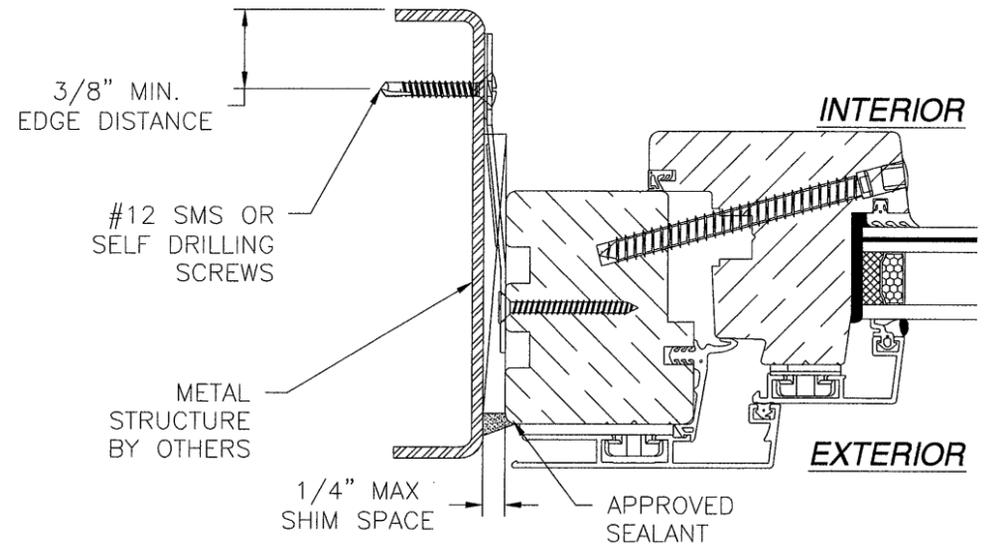
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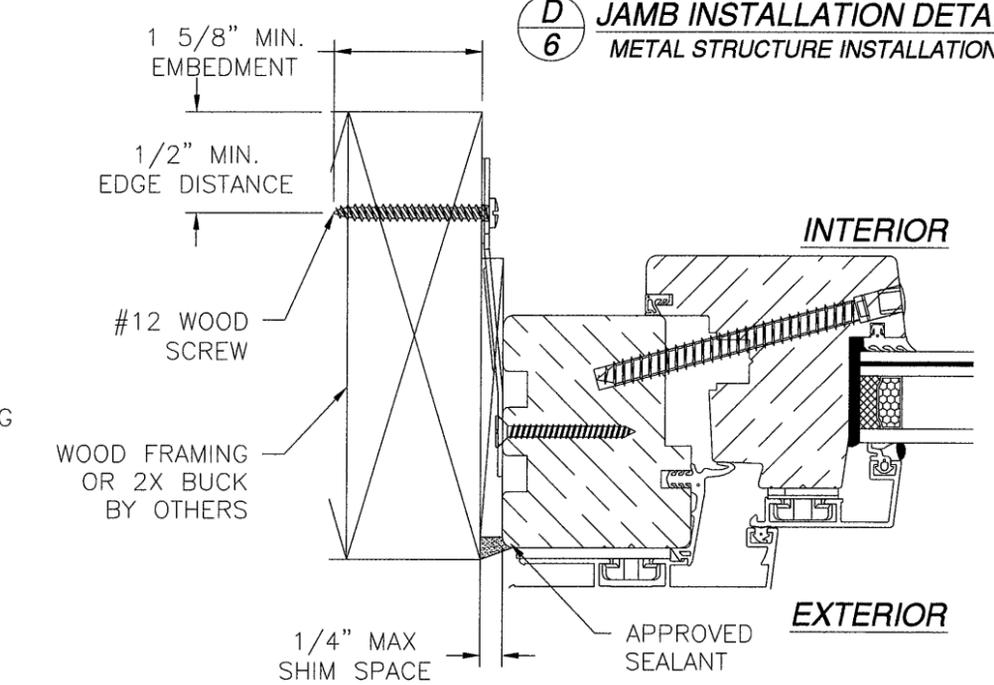
C
6 VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



C
6 VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



D
6 JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



D
6 JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

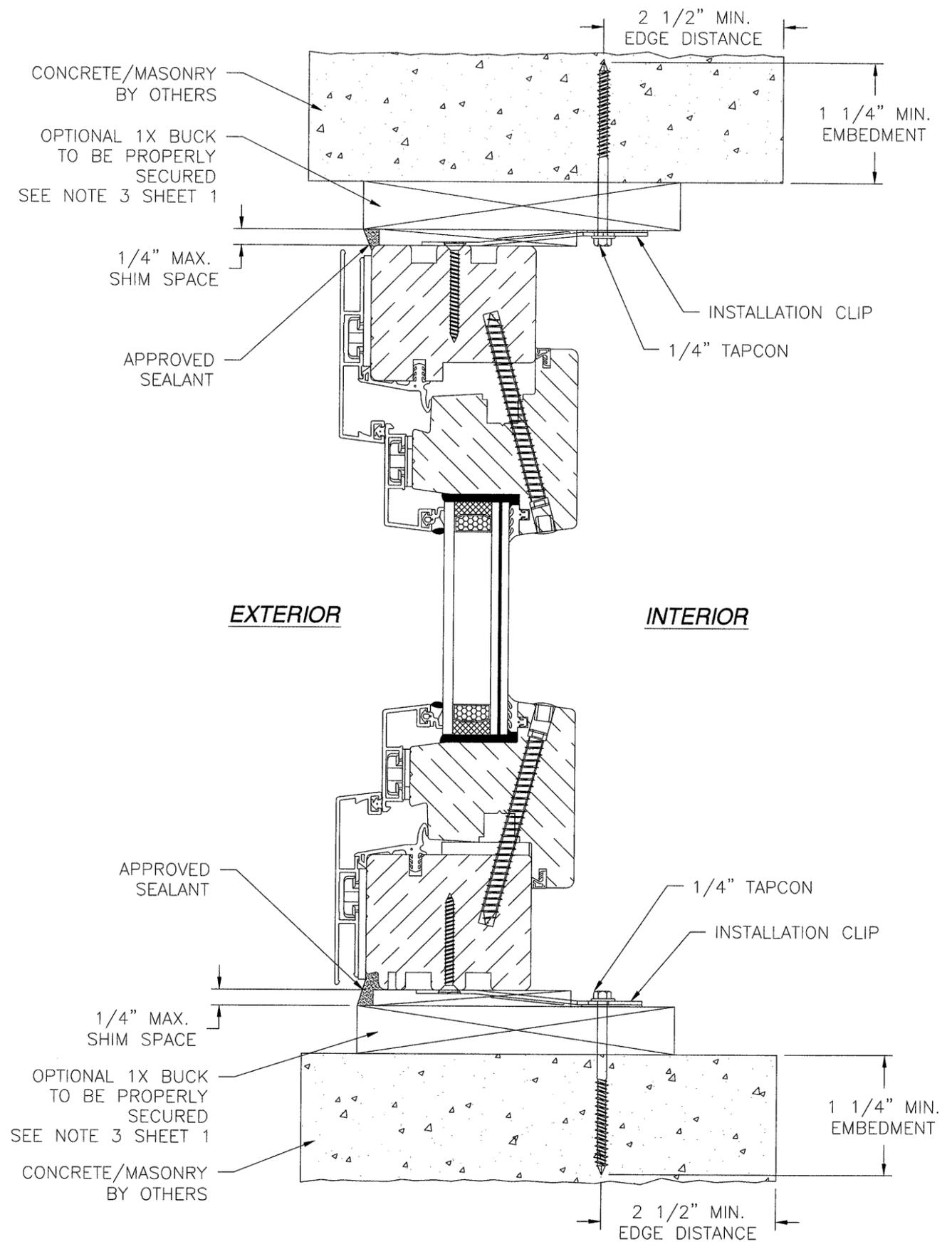
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By: *Manuel Perez*

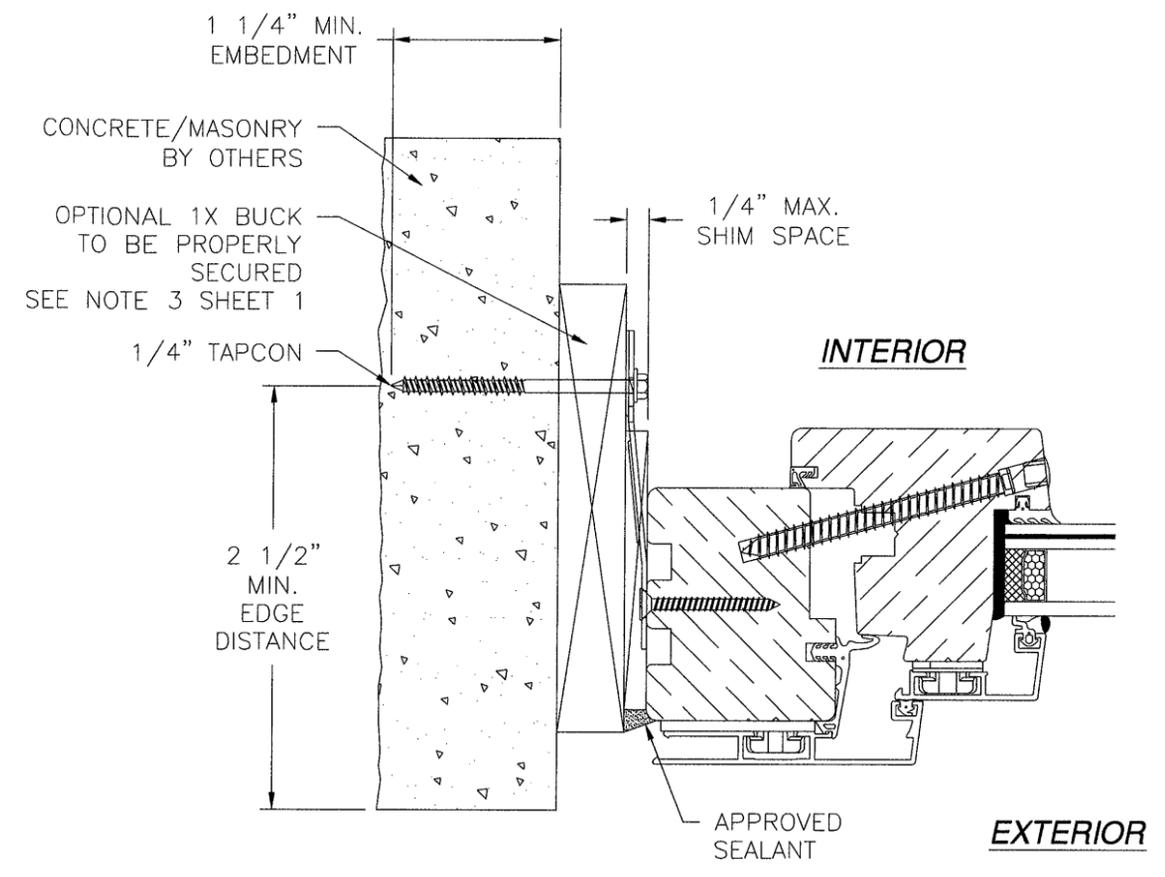
UNILUX FENSTER AND TUREN		
INDUSTRIGEBIET 54528 SALMTAL		
SERIES "F" AND "FF" ALUMINUM CLAD WOOD FIXED WINDOW 84" X 96" SERIES "FF" INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01289	REV A
SCALE NTS	DATE 12/13/11	SHEET 6 OF 8

Luis R. Lomas
01/04/13
Luis R. Lomas P.E.
Florida No. 62514

REVISIONS			
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C
7 VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

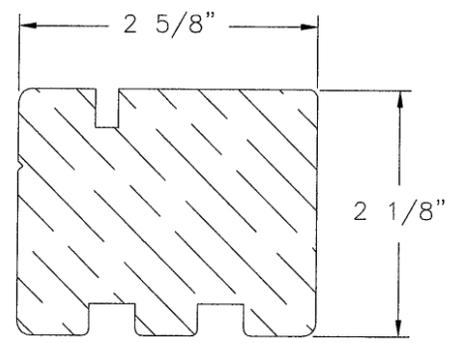


D
7 JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

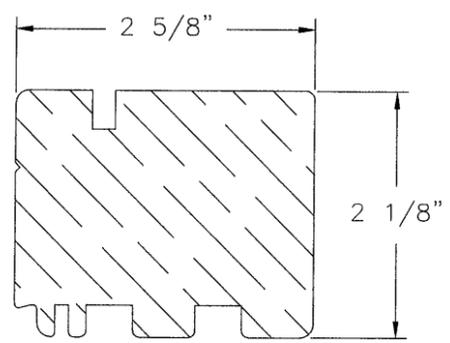
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SCALE NTS	DATE 12/13/11	SHEET 7 OF 8	

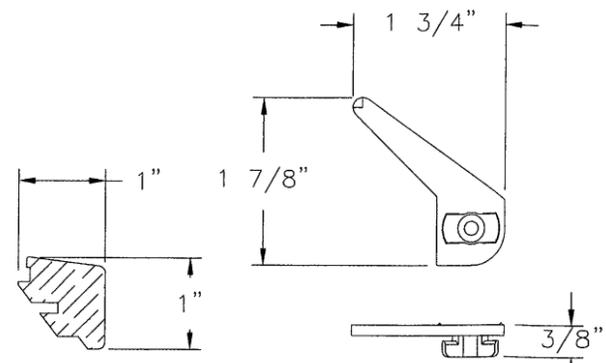
REVISIONS			
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① **FRAME**
WOOD

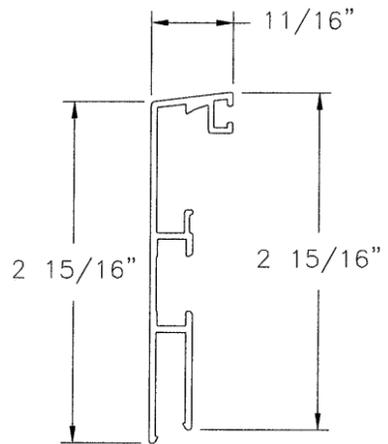


② **FRAME BOTTOM**
WOOD

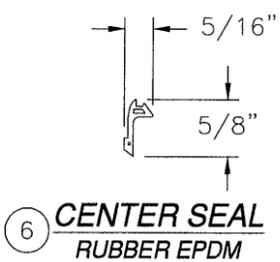


③ **STOP**
WOOD

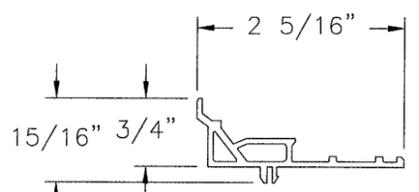
④ **CLAD FASTENER**
PLASTIC GF30



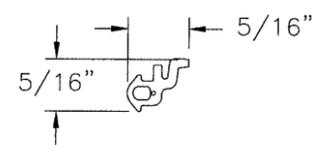
⑤ **CLAD PROFILE**
ALUMINUM 6060-T5 .055" THICK



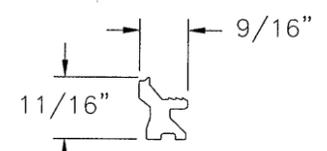
⑥ **CENTER SEAL**
RUBBER EPDM



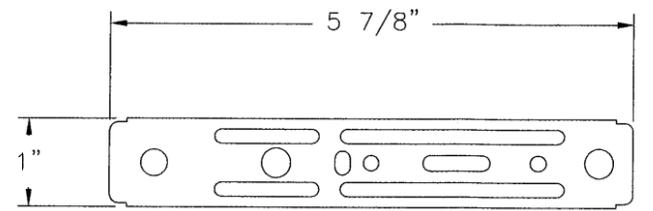
⑦ **FASTENER TOP & SIDE**
PLASTIC GF30



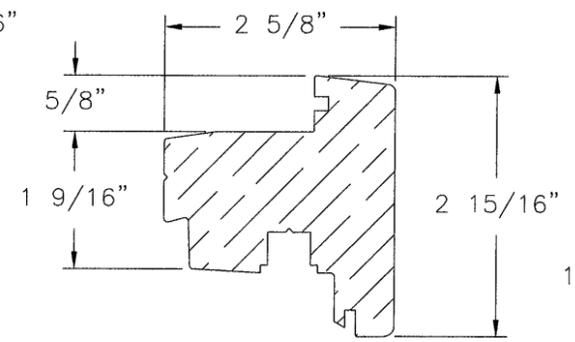
⑧ **GLAZING GASKET**
RUBBER EPDM



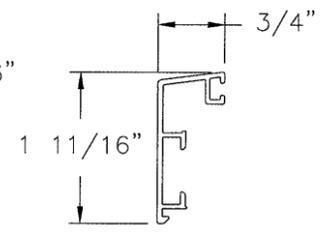
⑨ **FASTENER**
PLASTIC GF30



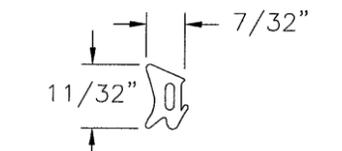
⑬ **INSTALLATION CLIP**
GALVANIZED STEEL .0551" THICK



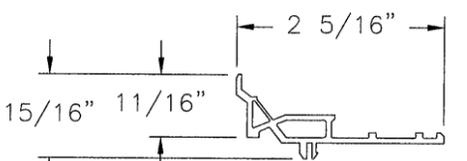
⑮ **FRAME SASH**
WOOD



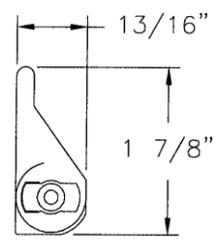
⑯ **CLADDING SASH**
ALUMINUM 6060-T5 .06" THICK



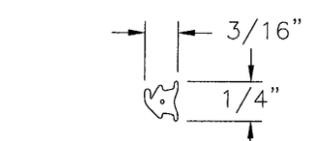
⑩ **GLAZING GASKET**
RUBBER EPDM



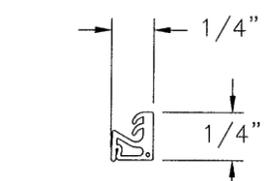
⑪ **FASTENER BOTTOM**
PVC



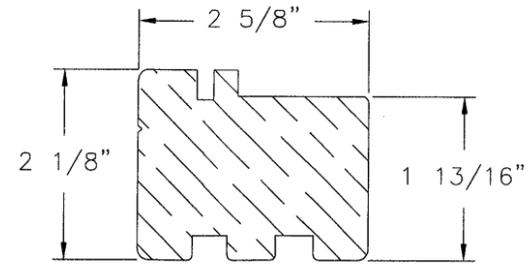
⑰ **CLAD FASTENER**
PLASTIC GF30



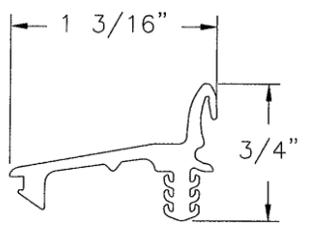
⑱ **FRAME GASKET**
RUBBER EPDM



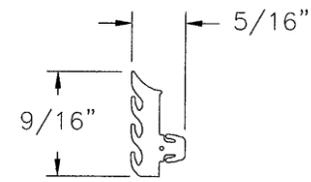
⑳ **SASH GASKET**
RUBBER EPDM



⑳ **FRAME, TOP**
WOOD



⑱ **FRAME GASKET**
RUBBER EPDM



㉑ **GLAZING GASKET**
RUBBER EPDM

Approved as complying with the Florida Building Code Date <u>Feb. 14, 2013</u> NOA# <u>12-0625-06</u> Miami Dade Product Control By <u>Manuel Perez</u>	6UNILUX FENSTER AND TUREN INDUSTRIEGEBIET 54528 SALMTAL		 01/04/13
	SERIES "F" AND "FF" ALUMINUM CLAD WOOD FIXED WINDOW 84" X 96" COMPONENTS		
DRAWN: R.L.	DWG NO. 08-01289	REV A	Luis R. Lomas P.E. Florida No. 62514
SCALE NTS	DATE 12/13/11	SHEET 8 OF 8	