



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, FL 33175
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

WinDoor, Inc.
104 Triple Diamond Blvd.
North Venice, FL 34275

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 "9060 Thermally Broken" Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **9060-LMI-NOA**, titled "9060 Thermally Broken Casement Window (LMI)", sheets 1 through 13 of 13, dated 08/12/2020, prepared, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Section 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# 17-1219.16** and consists of this page 1 and evidence pages E-, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.Z.
11/19/2020

NOA No. 20-0826.13
Expiration Date: August 08, 2023
Approval Date: November 19, 2020
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs

A. DRAWINGS

1. Manufacturer's die drawings and sections. (*Submitted under NOA# 13-0129.25*)
2. Drawing No. 08-01902, titled "9060 Casement Single & Twin Window - Large Missile Impact", sheets 1 through 13 of 13, dated 01/14/13, with revision G dated 12/04/17, 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, and TAS 202-94
along with marked-up drawings and installation diagram of a thermally broken aluminum casement window, prepared by National Certified Testing Laboratories, Inc., Test Reports No. **NCTL-210-3832-2A** and **NCTL-210-3832-3A**, dated 01/10/13, signed and sealed by Gerard J. Ferrara, P.E. (*Submitted under NOA# 13-0129.25*)

C. CALCULATIONS


1. Anchor calculations and structural analysis, complying with **FBC-2014, 5th edition**, dated 12/28/2015, prepared, signed and sealed by Luis R. Lomas, P.E. (*Submitted under NOA# 13-0129.25*)
2. Anchor calculations and structural analysis, complying with **FBC 6th edition (2017)**, dated 12/04/17, prepared, signed and sealed by Luis R. Lomas, P.E.
3. Glazing complies with **ASTM E1300-04**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. 17-1114.14 issued to Kuraray America, Inc. for their "Kuraray Trosifol® Ultraclear, clear and color PVB Interlayer" dated 01/18/18, expiring on 07/08/19.
2. NOA No. 17-0808.02 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/28/17, expiring on 07/04/23.
3. Test Report No. **ATI-61261.01-106-18**, prepared by Architectural Testing, Inc., dated 12/13/05, revised dated 01/04/06, issued to Technoform, for their I-Strut Thermal Barrier plastic per **ASTM D635-03** "Standard Test Method for Rate of Burning and/ or Extent and Time of Burning of Plastics in a Horizontal Position" and **ASTM D2843-99** "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics", signed and sealed by Allen N. Reeves, P.E. (*Submitted under NOA# 13-0129.25*)



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0826.13
Expiration Date: August 08, 2023
Approval Date: November 19, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTINUED)

4. Test Report No. **ETC-08-1043-20974.0**, prepared by ETC Laboratories, Inc., dated 07/01/08, issued to Technoform, for their I-Strut Thermal Barrier Plastic PA 66 GF25 per **ASTM D1929-96** (2001) "Standard Test Method for Ignition Properties of Plastics", signed by Gurijinder Dliami, Dir. (*Submitted under NOA# 13-0129.25*)
5. Test report No. **ETC-07-1043-19094.0**, prepared by ETC Laboratories, Inc., dated 02/18/08, issued to Technoform Bautech N.A., Inc., for their 18.6mm Flat I-Strut Thermal Barrier/ **ETC07021** per **ASTM D638-03** "4500 exposed Xenon Arch" & tensile strength **ASTM D638-03** "Tensile Strength" and per **ASTMD G26-96** "Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials", dated 03/06/08, signed and sealed by Joseph Labora Doldan, P.E. (*Submitted under NOA# 13-0129.25*)
6. Technoform Bautech N.A., Inc. Part No. **968600** 18.6mm Flat I-Strut Thermal Barrier Plastic PA 66 GF25 complying with **ASTM D3418-03** "Standard Test Method for Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetric", **ASTM D792-03** "Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement", **ASTM D2240-05** "Standard Test Method for Rubber Property—Durometer Hardness" and **ASTM D638-03** "4500 exposed Xenon Arch & Tensile Strength". (*Submitted under NOA# 13-0129.25*)

F. STATEMENTS

1. Statement letter of conformance, complying with FBC 6th Edition (2017), and of no financial interest, dated December 04, 2017, issued, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory compliance letter for Test Reports No. **NCTL-210-3832-2A** and **NCTL-210-3832-3A**, issued by National Certified Testing Laboratories, Inc., dated 01/10/13, signed and sealed by Gerard J. Ferrara, P.E. (*Submitted under NOA# 13-0129.25*)

G. OTHERS

1. Notice of Acceptance No. 15-0723.03, issued to WinDoor, Inc. for their Series "9060 Thermally Broken" Aluminum Casement Window – L.M.I., approved on 01/21/16 and expiring on 08/08/18.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0826.13
Expiration Date: August 08, 2023
Approval Date: November 19, 2020

WinDoor, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 9060-LMI-NOA, titled "9060 Thermally Broken Casement Window (LMI)", sheets 1 through 13 of 13, dated 08/12/2020, prepared, signed and sealed by Anthony Lynn Miller, 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

along with marked-up drawings and installation diagram of WinDoor, Inc. representative units listed below and tested to qualify Dowsil 791 and Dowsil 983 silicones, per Proposal #19-1155TP.

Test Report	Product Name		Unit in TP	Signed and Sealed	Date
FTL 20-1078.1	WinDoor	PW3000 Aluminum Fixed Lite	11	Idalmis Ortega, P.E.	08/24/20
FTL 20-1078.2	WinDoor	HR9470 Thermally Broken Aluminum Horizontal Roller	12	Idalmis Ortega, P.E.	08/24/20
FTL 20-1078.3	WinDoor	SGD8100 Aluminum Sliding Glass Door	13	Idalmis Ortega, P.E.	08/24/20
FTL 20-1078.4	WinDoor	HR9470 Thermally Broken Aluminum Horizontal Roller	14	Idalmis Ortega, P.E.	08/24/20
FTL 20-1078.5	WinDoor	PW9020 Thermally Broken Aluminum Fixed Lite	15	Idalmis Ortega, P.E.	08/24/20
FTL 20-1078.6	WinDoor	PW9020 Thermally Broken Aluminum Fixed Lite	16	Idalmis Ortega, P.E.	08/24/20

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, of complying with FBC 6th Edition (2017), and FBC 7th Edition (2020), and of no financial interest, dated August 11, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Notification of Successor Engineer for manufacturer's NOA document per **Section 61G15-27.001** of the **Florida Administrative Code**, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated August 11, 2020, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. 19-1155 TP issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.

G. OTHERS

1. Notice of Acceptance No. **17-1219.16**, expiring on 08/08/23.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0826.13

Expiration Date: August 08, 2023
Approval Date: November 19, 2020


NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 6TH EDITION (2017) AND 7TH EDITION (2020), INCLUDING THE HVHZ.
2. WOOD FRAMING, 2X WOOD BUCK, 1X WOOD BUCK 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. 2X WOOD BUCK TO BE PROPERLY SECURED.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. 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.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: ALUMINUM 6063-T6.
12. UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 5 FOR GLASS OPTIONS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH 1" MINIMUM EDGE DISTANCE AND SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" ELCO CRETE-FLEX SS4 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.
16. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING GRADE 5 SCREWS WITH 1" MINIMUM EDGE DISTANCE AND SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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=0.42
 - 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

CORNER CONSTRUCTION:

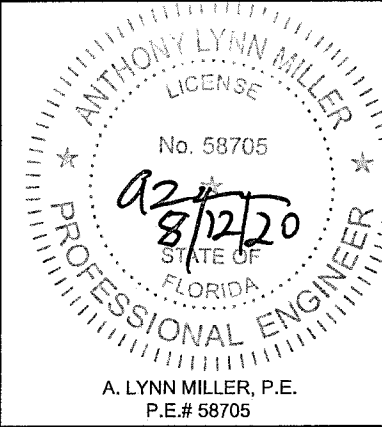
1. FRAME CORNERS ARE ASSEMBLED USING TWO CORNER KEYS: EXTERIOR KEY (ITEM 25) AND INTERIOR KEY (ITEM 26) SEE SHEET 11.
2. SASH CORNERS ARE ASSEMBLED USING TWO CORNER KEYS: EXTERIOR KEY (ITEM 25) AND INTERIOR KEY (ITEM 24) SEE SHEET 11.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2-4	ELEVATIONS & CHARTS
5	BOM & GLAZING DETAILS
6	SECTION VIEWS
7-10	INSTALLATION DETAILS
11	EXTRUSIONS
12-13	HARDWARE LAYOUTS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By 
Miami-Dade Product Control

Revision: UPDATES FOR 2020 FBC.
UPDATED MANUFACTURING
ADDRESS.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		Date	08/12/20	Rev.	
		By	ERIN KOSS		
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		THERMALLY BROKEN ALUM. CASEMENT (LM)		No.	9060-LMI-NOA
				DWG	
GENERAL NOTES		CA9060T		1 OF 13	
				Sheet	
Series	Desc.	Title			



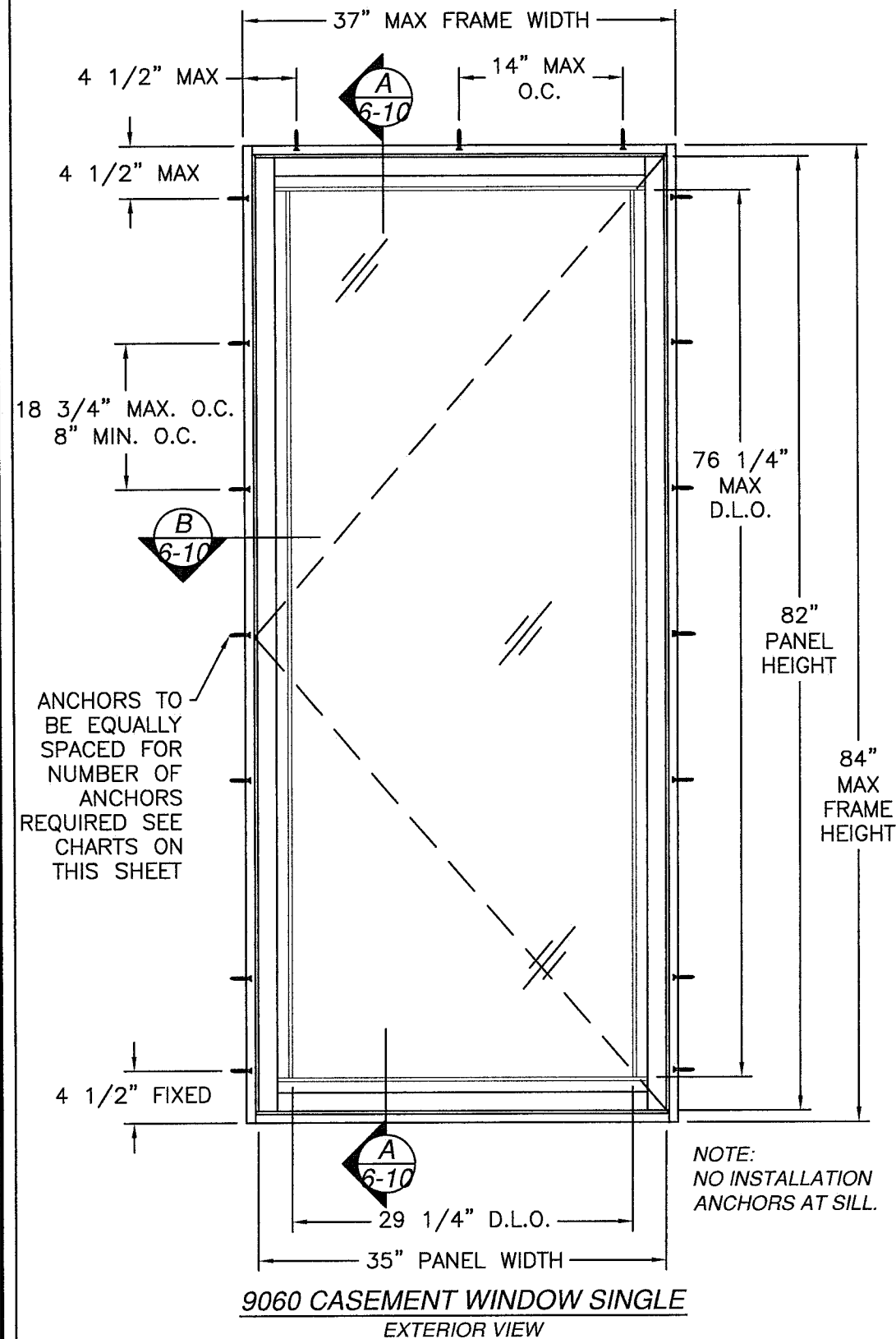


CHART #1
CA9060 Single Window with SG Interlayer (Glazing A & B)
Maximum Design Pressure Capacity Chart (psf)

Frame Height (in)	Frame Width (in)							
	24.0		30.0		36.0		37.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
36.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
42.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
48.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
54.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
60.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
66.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
72.0	100.0	150.0	100.0	150.0	100.0	149.6	100.0	146.9
78.0	100.0	150.0	100.0	150.0	100.0	145.9	100.0	143.1
84.0	100.0	150.0	100.0	150.0	100.0	142.8	100.0	140.0

CHART #3
CA9060 Single Window with PVB Interlayer (Glazing C & D)
Maximum Design Pressure Capacity Chart (psf)

Frame Height (in)	Frame Width (in)							
	24.0		30.0		36.0		37.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
54.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
66.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
78.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

CHART #2
CA9060 Single Window with SG Interlayer (Glazing A & B)
Number of Anchor Locations Required

Frame Height (in)	Frame Width (in)							
	24.0		30.0		36.0		37.0	
	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
30.0	3	3	3	3	3	3	3	3
36.0	3	3	3	3	3	3	3	3
42.0	3	3	3	3	3	3	3	4
48.0	3	4	3	4	3	4	3	4
54.0	3	4	3	4	3	5	3	5
60.0	3	4	3	4	3	5	3	5
66.0	3	5	3	5	3	6	3	6
72.0	3	5	3	5	3	6	3	6
78.0	3	5	3	6	3	6	3	7
84.0	3	5	3	6	3	7	3	7

CHART #4
CA9060 Single Window with PVB Interlayer (Glazing C & D)
Number of Anchor Locations Required

Frame Height (in)	Frame Width (in)							
	24.0		30.0		36.0		37.0	
	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
30.0	3	3	3	3	3	3	3	3
36.0	3	3	3	3	3	3	3	3
42.0	3	3	3	3	3	3	3	3
48.0	3	4	3	4	3	4	3	4
54.0	3	4	3	4	3	4	3	4
60.0	3	4	3	4	3	4	3	4
66.0	3	5	3	5	3	5	3	5
72.0	3	5	3	5	3	5	3	5
78.0	3	5	3	5	3	5	3	5
84.0	3	5	3	5	3	5	3	5


NOTE:
NO INSTALLATION
ANCHORS AT SILL.

DESIGN PRESSURE RATING	IMPACT RATING
+100.0/-140.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
WITH GLAZING A AND B (SEE CHARTS 1 & 2)

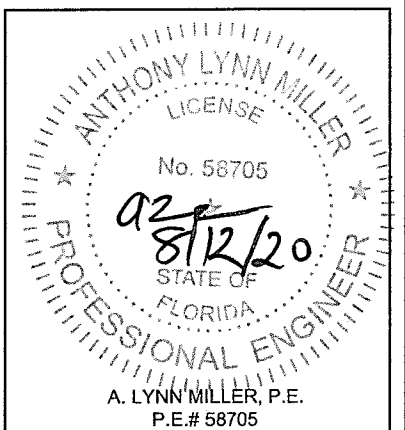
DESIGN PRESSURE RATING	IMPACT RATING
±90.0PSF	LARGE MISSILE IMPACT

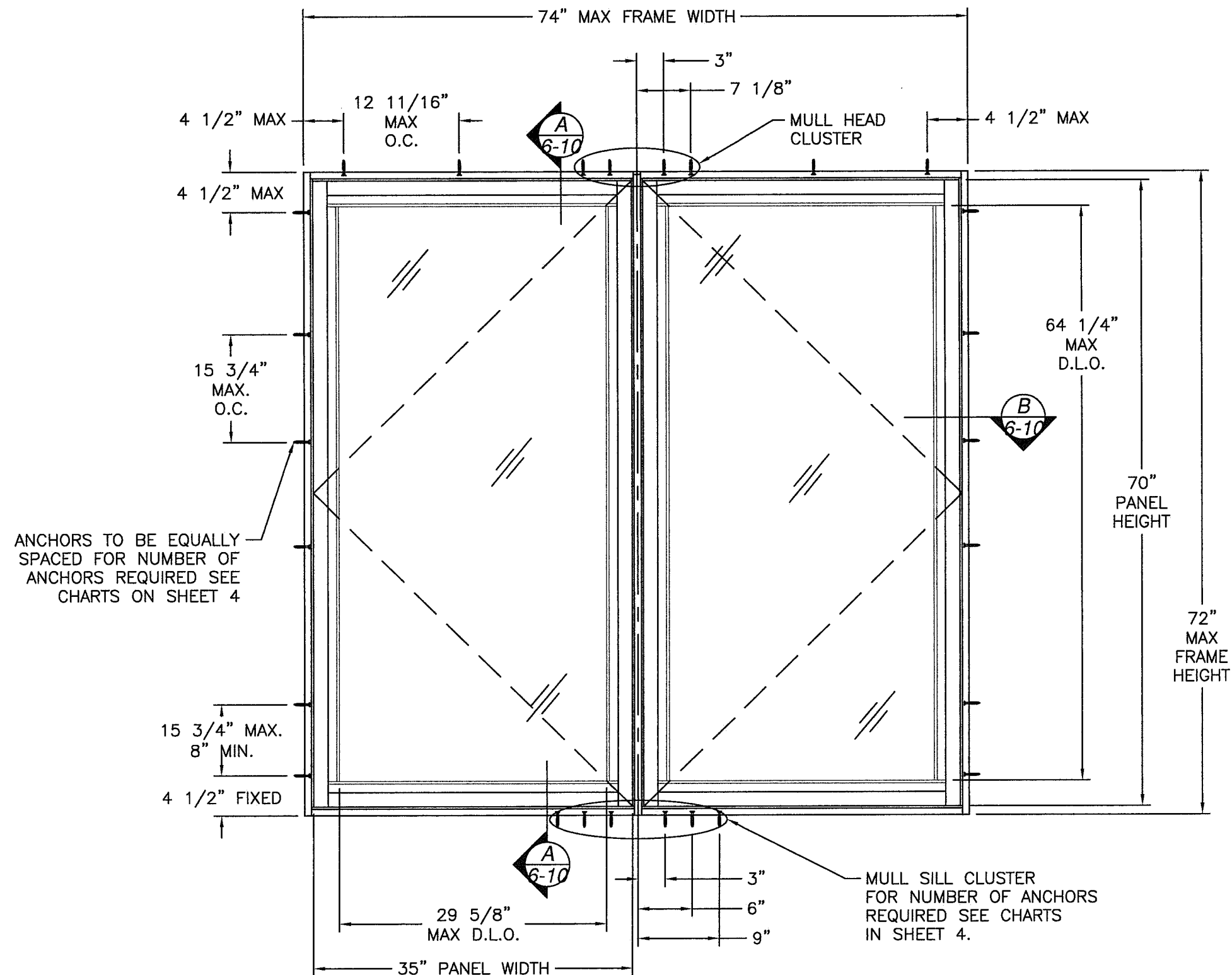
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
WITH GLAZING C AND D (SEE CHARTS 3 & 4)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By 
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET.

WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date: 08/12/20 By: ERIN KOSS Title: ELEVATION & CHARTS - SINGLE	Rev: DWG No: 2 OF 13 Sheet: CA9060T
	THERMALLY BROKEN ALUM. CASEMENT (LM)		
	9060-LMI-NOA		
	ELEVATION & CHARTS - SINGLE		





9060 CASEMENT WINDOW TWIN
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+90.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
WITH GLAZING A AND B (SEE CHARTS 5 & 6)

DESIGN PRESSURE RATING	IMPACT RATING
±90.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
WITH GLAZING C AND D (SEE CHARTS 7 & 8)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By *[Signature]*
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET.

WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		Rev.
	THERMALLY BROKEN ALUM. CASEMENT (LM)		Date 08/12/20
	ELEVATION - TWIN		By ERIN KOSS
	CA9060T		DWG No. 9060-LMI-NOA
3 OF 13		Sheet	

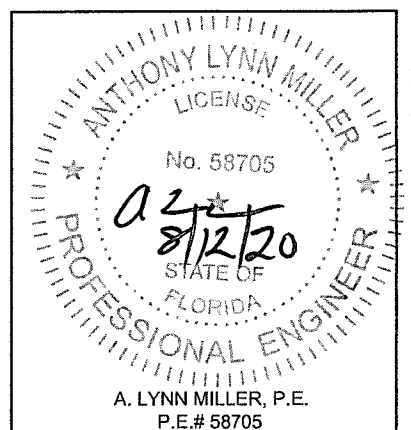


CHART #5

CA9060 Twin Window with SG Interlayer (Glazing A & B)										
Maximum Design Pressure Capacity Chart (psf)										
Frame Height (in)	Frame Width (in)									
	48.0		56.0		64.0		72.0		74.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
36.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
42.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
48.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
54.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
60.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.8	100.0	116.0
66.0	100.0	120.0	100.0	120.0	100.0	111.3	100.0	103.1	100.0	101.4
72.0	100.0	120.0	100.0	109.7	99.4	99.4	91.6	91.6	90.0	90.0

CHART #6

CA9060 Twin Window with SG Interlayer (Glazing A & B)																				
Number of Anchor Locations Required																				
Frame Height (in)	Frame Width (in)																			
	48.0				56.0				64.0				72.0				74.0			
	Head	Jamb	MHC	MSC	Head	Jamb	MHC	MSC	Head	Jamb	MHC	MSC	Head	Jamb	MHC	MSC	Head	Jamb	MHC	MSC
30.0	2	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4
36.0	2	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4
42.0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
48.0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
54.0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
60.0	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4
66.0	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4
72.0	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4

MHC = Mull Head Cluster MSC = Mull Sill Cluster

CHART #7

CA9060 Twin Window with PVB Interlayer (Glazing C & D)										
Maximum Design Pressure Capacity Chart (psf)										
Frame Height (in)	Frame Width (in)									
	48.0		56.0		64.0		72.0		74.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
54.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
66.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

CHART #8

CA9060 Twin Window with PVB Interlayer (Glazing C & D)																				
Number of Anchor Locations Required																				
Frame Height (in)	Frame Width (in)																			
	48.0				56.0				64.0				72.0				74.0			
	Head	Jamb	MHC	MSC	Head	Jamb	MHC	MSC	Head	Jamb	MHC	MSC	Head	Jamb	MHC	MSC	Head	Jamb	MHC	MSC
30.0	2	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4
36.0	2	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4
42.0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
48.0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
54.0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
60.0	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4
66.0	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4
72.0	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4

MHC = Mull Head Cluster MSC = Mull Sill Cluster

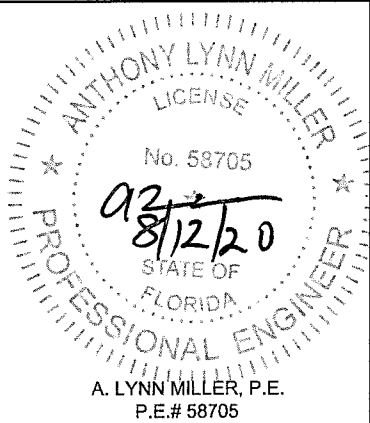
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13

Expiration Date 08/08/2023

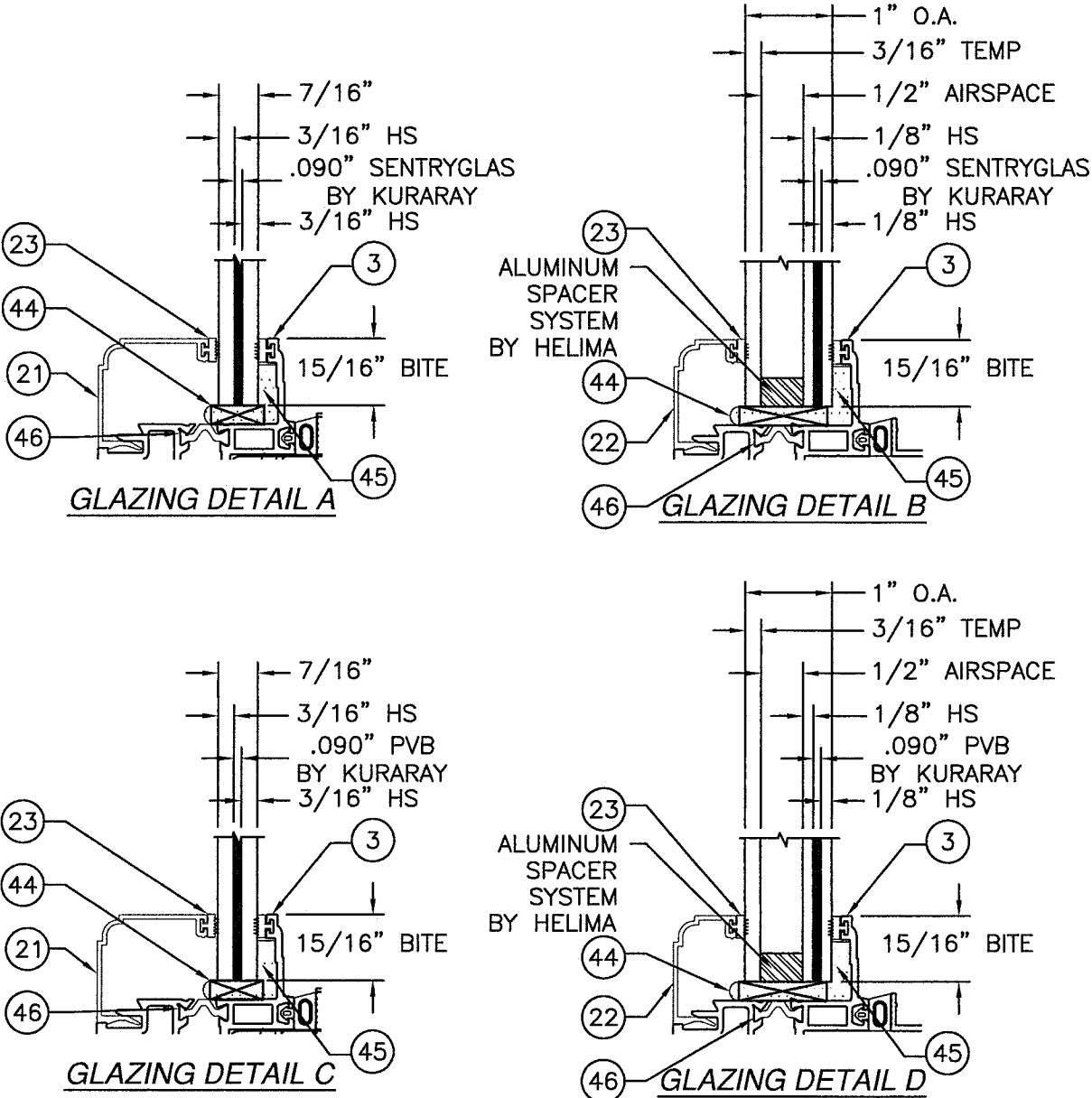
By 
Miami-Dade Product Control

NO CHANGES THIS SHEET.

WINDOOR® INCORPORATED		WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	
Title		THERMALLY BROKEN ALUM. CASEMENT (LM)		Date	
Series Desc.		DP & ANCHOR CHARTS - TWIN		By	
CA9060T		4 OF 13		Drawn	
Sheet		9060-LMI-NOA		Rev.	
		ERIN KOSS		08/12/20	



BILL OF MATERIALS				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	9060A02	FLUSH FRAME ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
2	9060A04	FLANGE FRAME ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
3	9060A01	SASH ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
4	9060A03	COMMON POST	KEYMARK	ALUMINUM 6063-T6
5	S51989	HORIZONTAL SCREEN ADAPTER	KEYMARK	ALUMINUM 6063-T6
6	S51990	VERTICAL SCREEN ADAPTER	KEYMARK	ALUMINUM 6063-T6
7	H50/O-55-0521	ENCORE DUAL ARM OPERATOR	TRUTH	
8	H50/O-55-0522P	ENCORE DUAL ARM OPERATOR	TRUTH	
9	12510.00.0520	STUD BRACKET LEFT HAND HINGE	TRUTH	
10	12511.00.0520	STUD BRACKET RIGHT HAND HINGE	TRUTH	
11	64.59.00.201	14.10 WASHABILITY HINGE	TRUTH	
12	24.30.XX.004	LOCK ASSEMBLY	TRUTH	
13	23050.00.0500	LOCK SUPPORT PLATE	TRUTH	
14	9000LH-HD	KEEPER LEFT HAND - HD	SELJAN	
15	9000RH-HD	KEEPER RIGHT HAND - HD	SELJAN	
16	11914	TIE BAR 6 POINT	TRUTH	
17	11914	TIE BAR 5 POINT	TRUTH	
18	12075P001	TIE BAR GUIDE	TRUTH	
19	900130	FRAME & SASH SNUBBER	ROTO	
20	H1579-SS-0520P	OPERATOR TRACK & SLIDER ASSY	TRUTH	
21	S46329	GLASS STOP 7/16" - 9/16"	KEYMARK	ALUMINUM 6063-T6
22	S46084	GLASS STOP 1"	KEYMARK	ALUMINUM 6063-T6
23	TP1051	#6 GLAZING VINYL	TEAM PLASTICS	
24	FS07438	INTERIOR SASH CORNER KEY	KEYMARK	ALUMINUM 6063-T6
25	FS07440	SASH & FRAME CORNER KEY	KEYMARK	ALUMINUM 6063-T6
26	FH07439	EXTERIOR FRAME CORNER KEY	KEYMARK	ALUMINUM 6063-T6
27	FH07574	SCREEN FRAME	KEYMARK	ALUMINUM 6063-T6
28	FH05838	SCREEN FLANGE FRAME	KEYMARK	ALUMINUM 6063-T6
29	S10010-BL-2200R	SCREEN SPLINE	TEAM PLASTICS	VINYL
30	SBV-XX-0600Z	SCREEN CLOTH	PHIFER	FEBERGLASS
31	QEZ 376	Q-LON FOAM FLAP SEAL	SCHLEGEL	
32	54076	WEATHERSTRIP	LAUREN MFG.	EPDM SPONGE
33	54578	WEATHERSTRIP	LAUREN MFG.	EPDM RUBBER
34	121998	.187"X200" FIN SEAL	ULTRA FAB	
35	131018-6	#8 X 3/8" PPH		
36		#8 x 1/2" PFH		
37		#8 X 1/2" PPH		
38	131118	#8 X 1 1/4" PPH		
39	131113	#10 X 1/2" PPH		
40		LOCK HANDLE		
41		#10 X 3/4" & #10 X 1 1/4" PFH		
42	131112	#10 X 3" PPH SELF-DRILLING		
43		HEAD & SILL INNER-SCREWS		
44	01-100-7755-002	NEOPRENE GLASS SHIMS	FRANK LOWE	DUROMETER 80
45		SIKA 552, DOW 791, DOW 983	SIKA / DOW	POLYURETHANE/SILICONE
46	968600	THERMAL STRUT	TECHNOFORM	POLYAMIDE



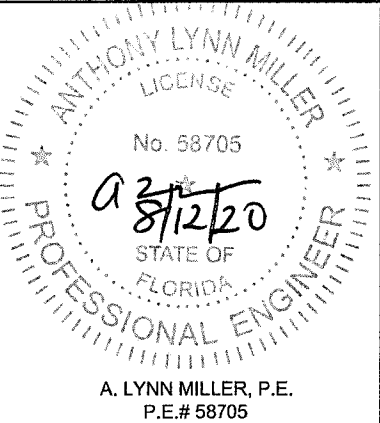
EXTERIOR



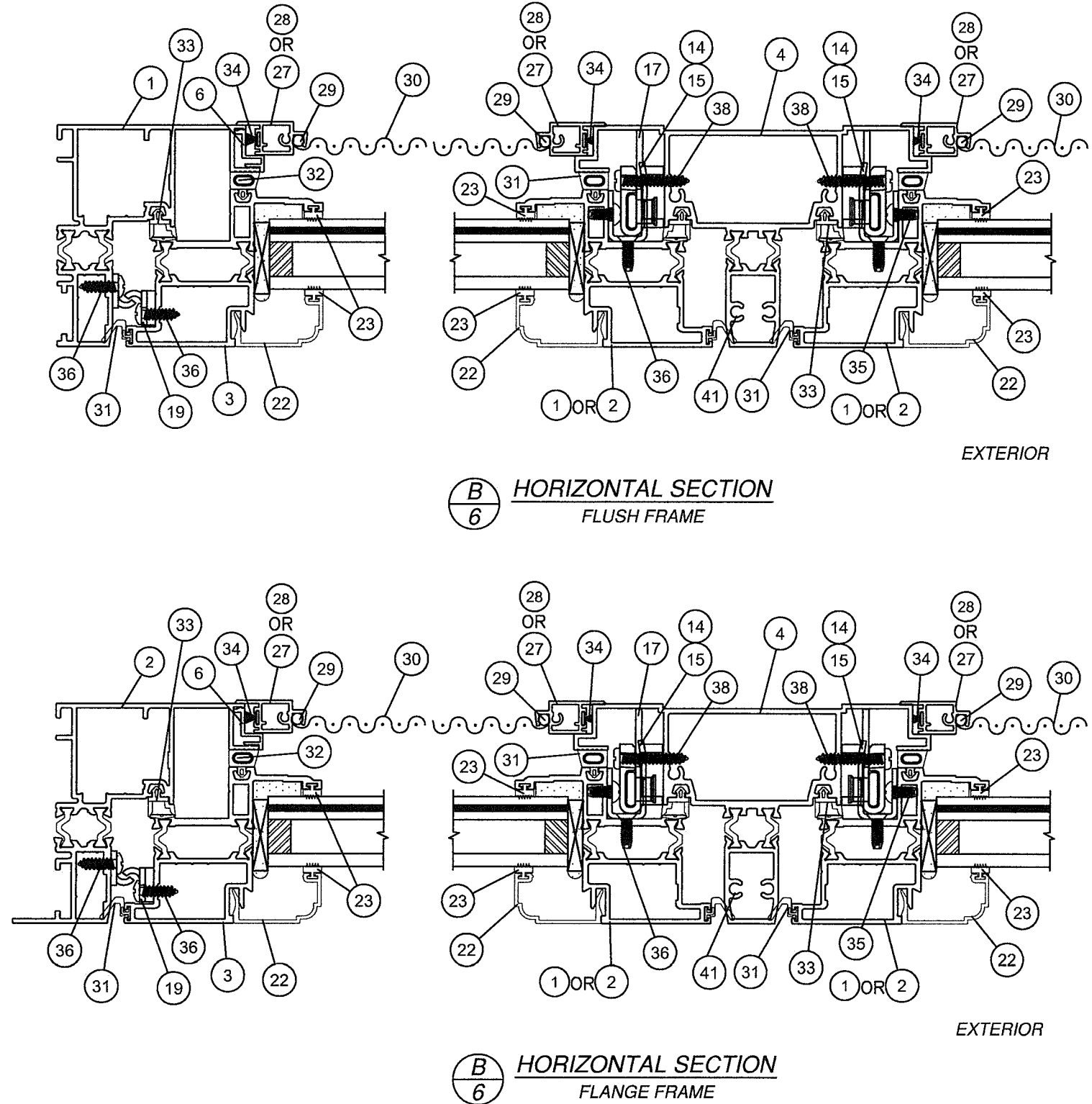
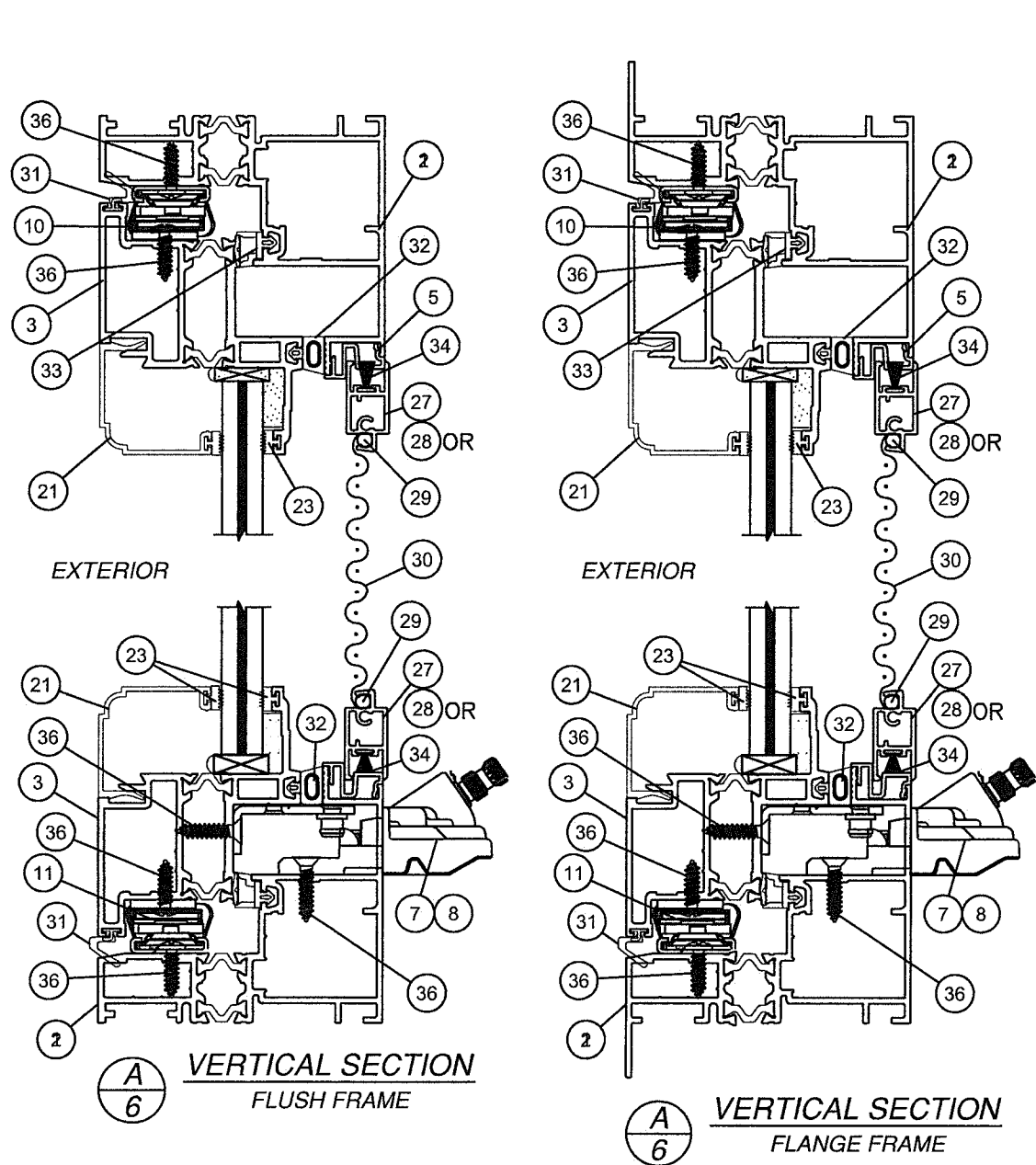
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By
Miami-Dade Product Control

Revision: ADDED DOW 791 & DOW 983 TO BOM.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	08/12/20		Rev.
	Date	By	Rev.
	ERIN KOSS	9060-LMI-NOA	
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	THERMALLY BROKEN ALUM. CASEMENT (LM)		Sheet
	BOM & GLAZING DETAILS		5 OF 13
	CA9060T		



FOR ILLUSTRATION PURPOSES ONLY. FOR INSTALLATION DETAILS REFER TO SHEETS 7-10.

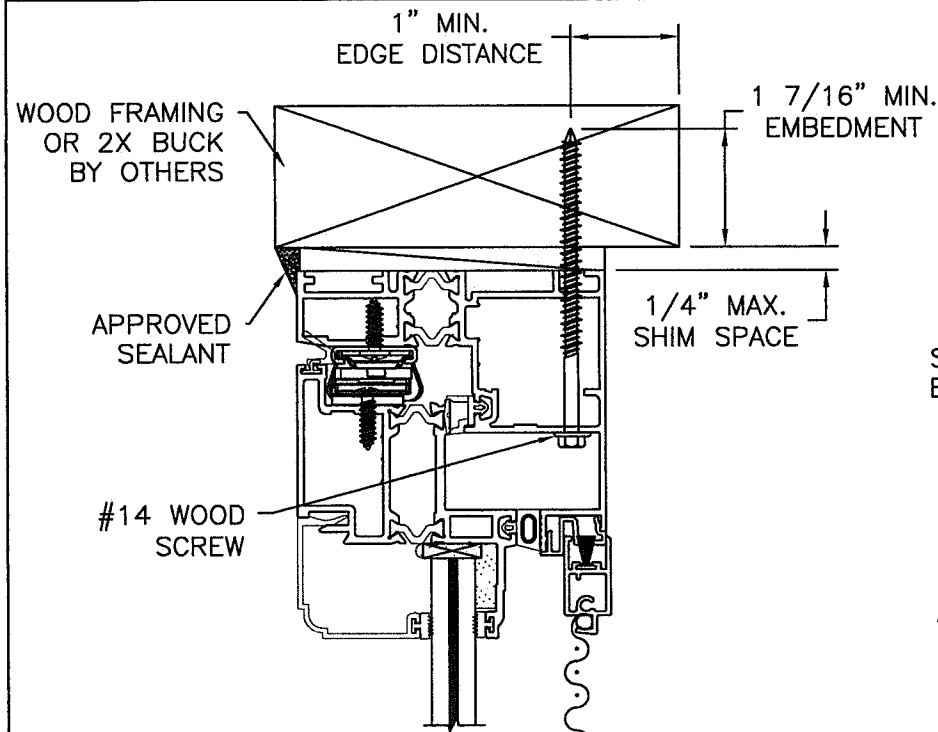


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By *[Signature]*
Miami-Dade Product Control

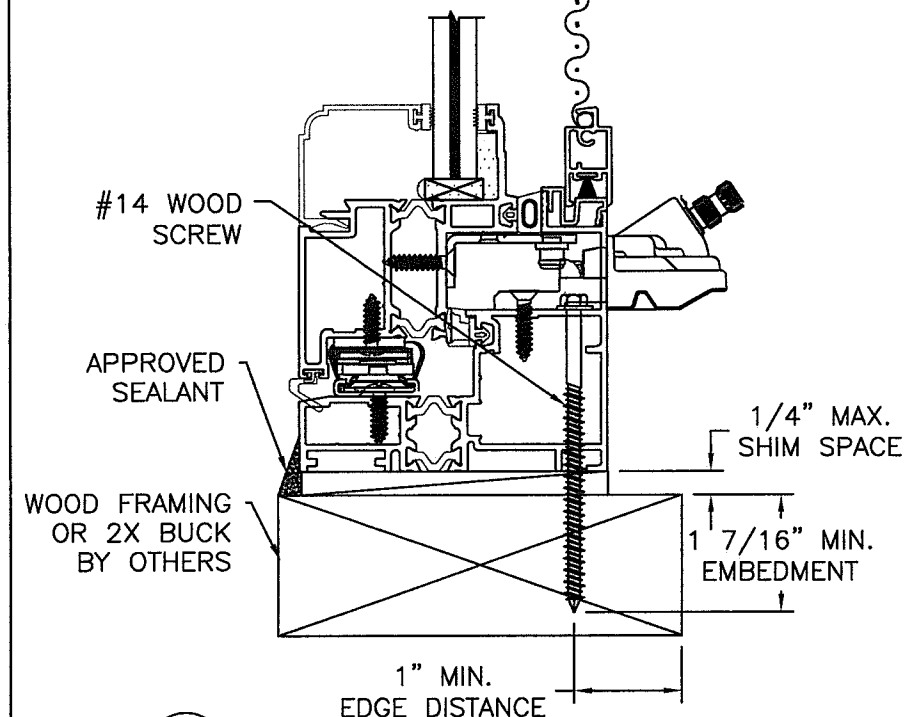
Revision: NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date 08/12/20	Drawn By ERIN KOSS	Rev.
			9060-LM-HNOA
			DWG No.
			6 OF 13
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	THERMALLY BROKEN ALUM. CASEMENT (LM)	SECTION VIEWS	Sheet
			CA9060T
			Desc.
			Title

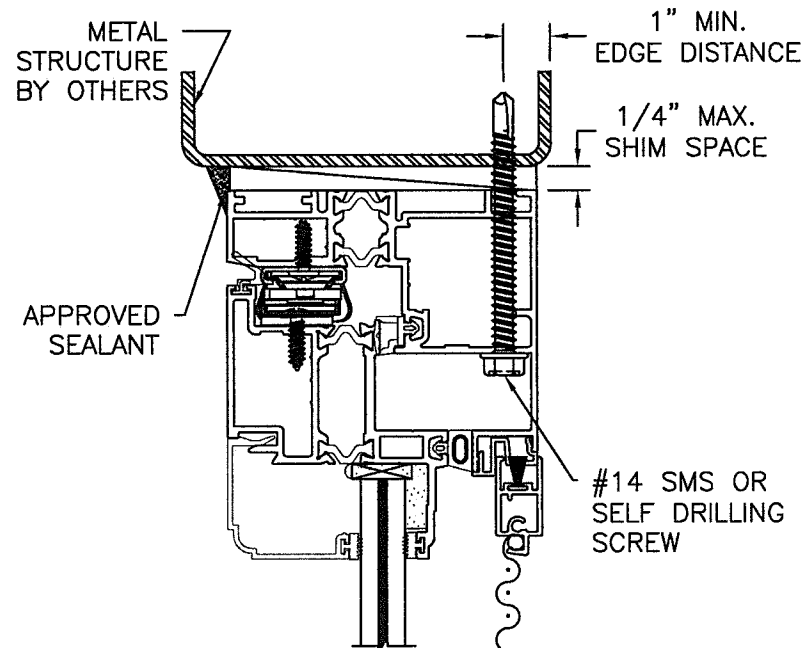
ANTHONY LYNN MILLER
LICENSE
No. 58705
8/12/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



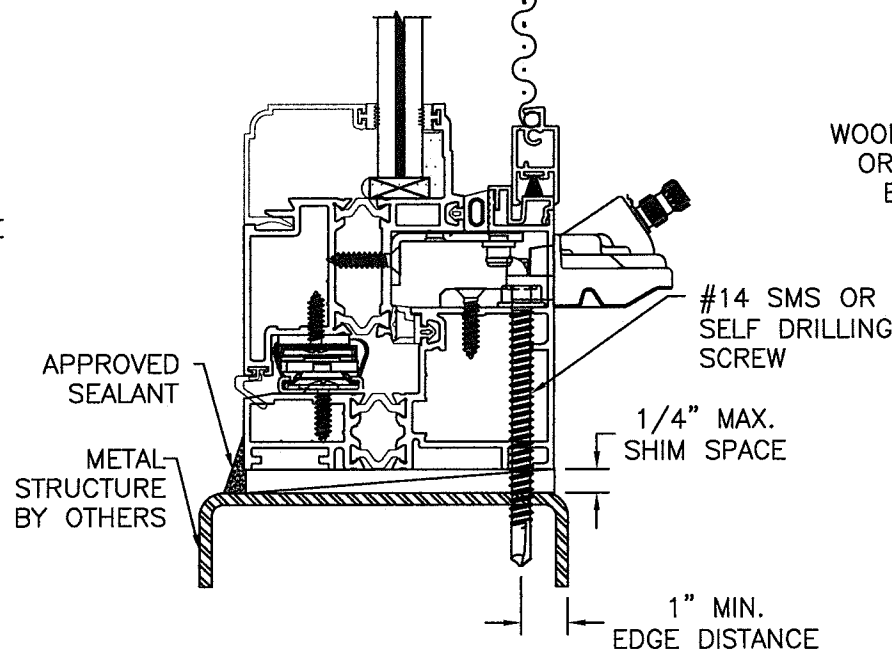
EXTERIOR



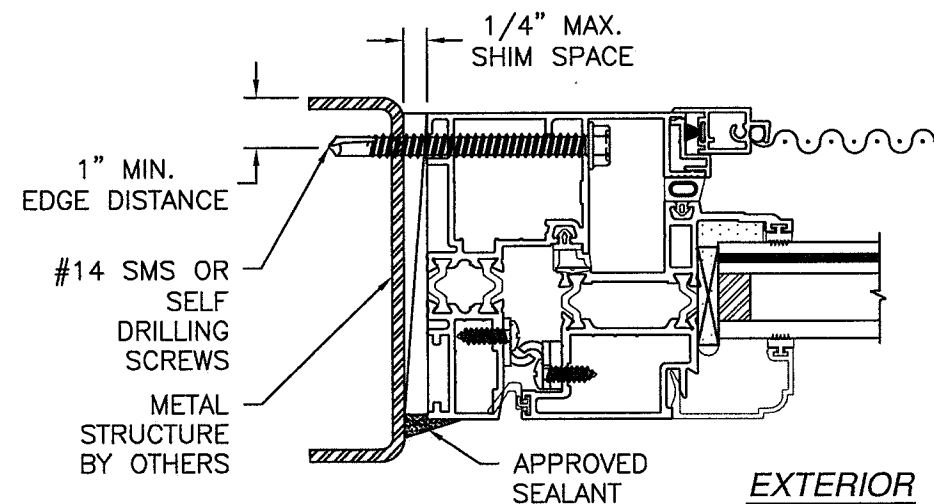
A/7
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



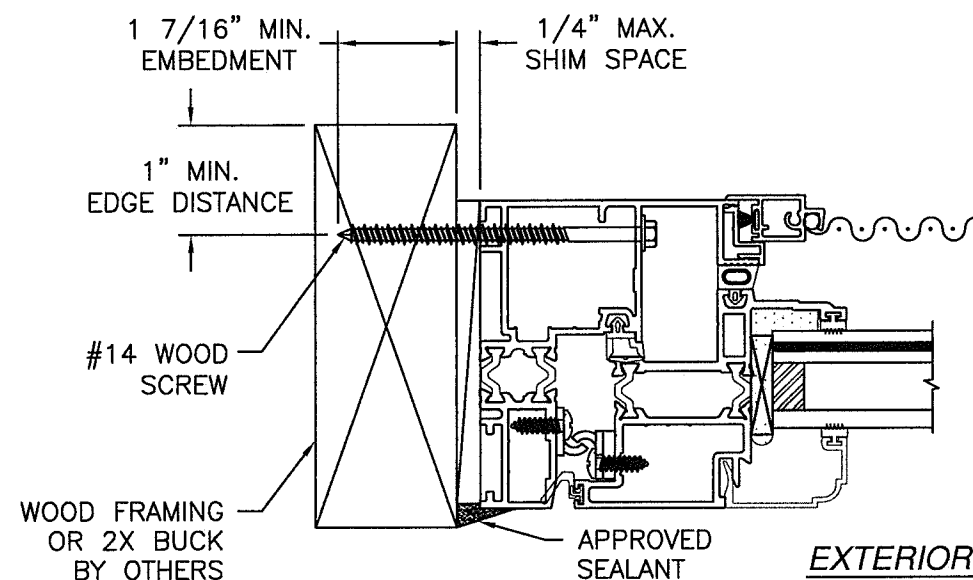
EXTERIOR



A/7
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



B/7
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



B/7
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

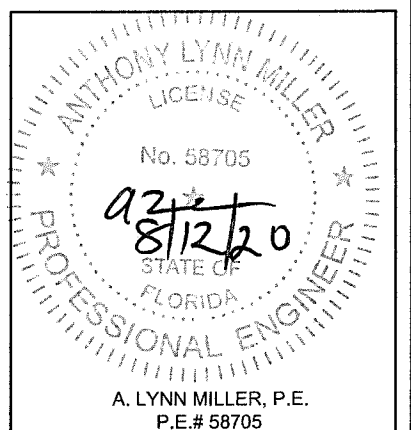
NOTES:

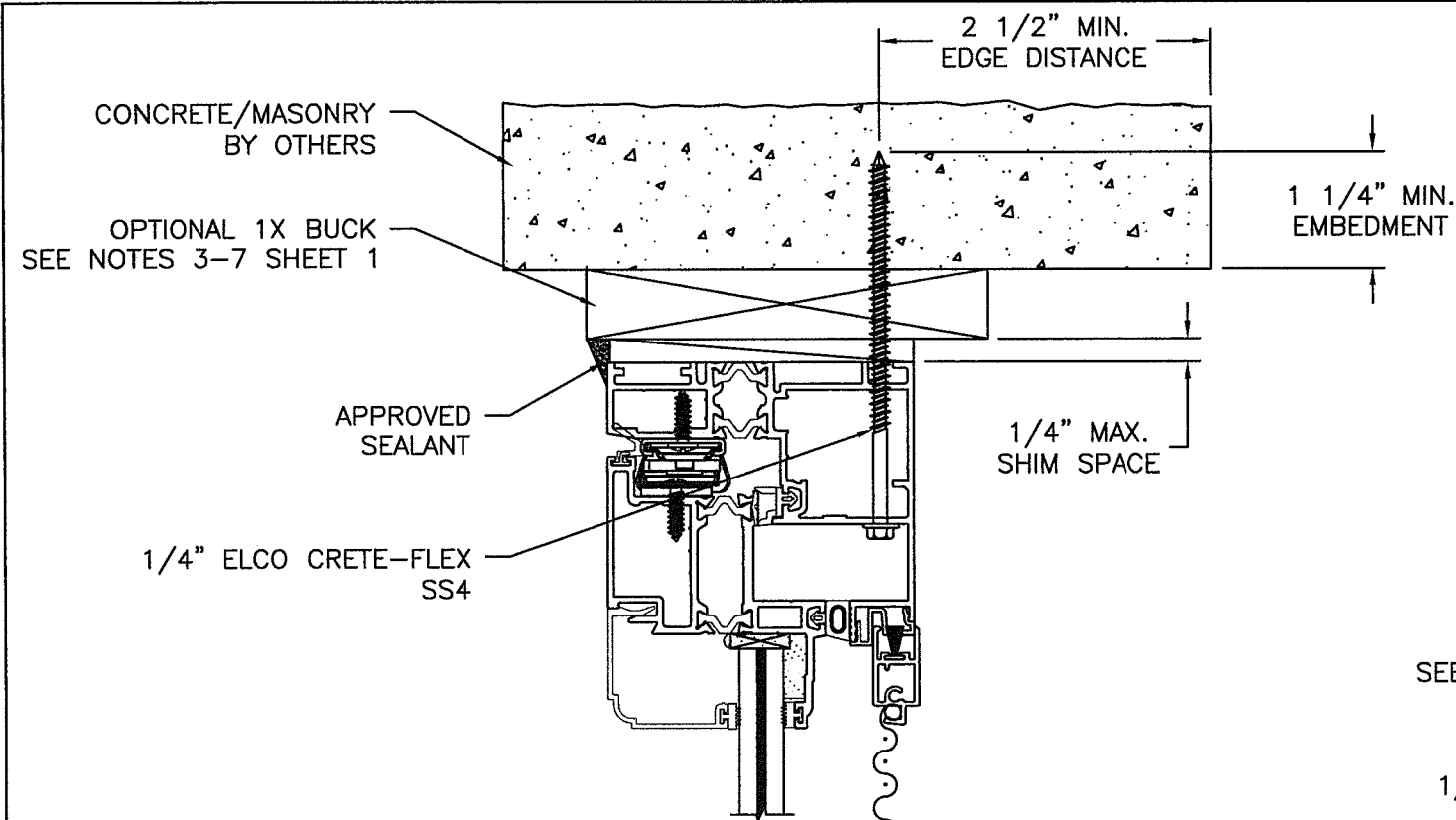
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By
Miami-Dade Product Control

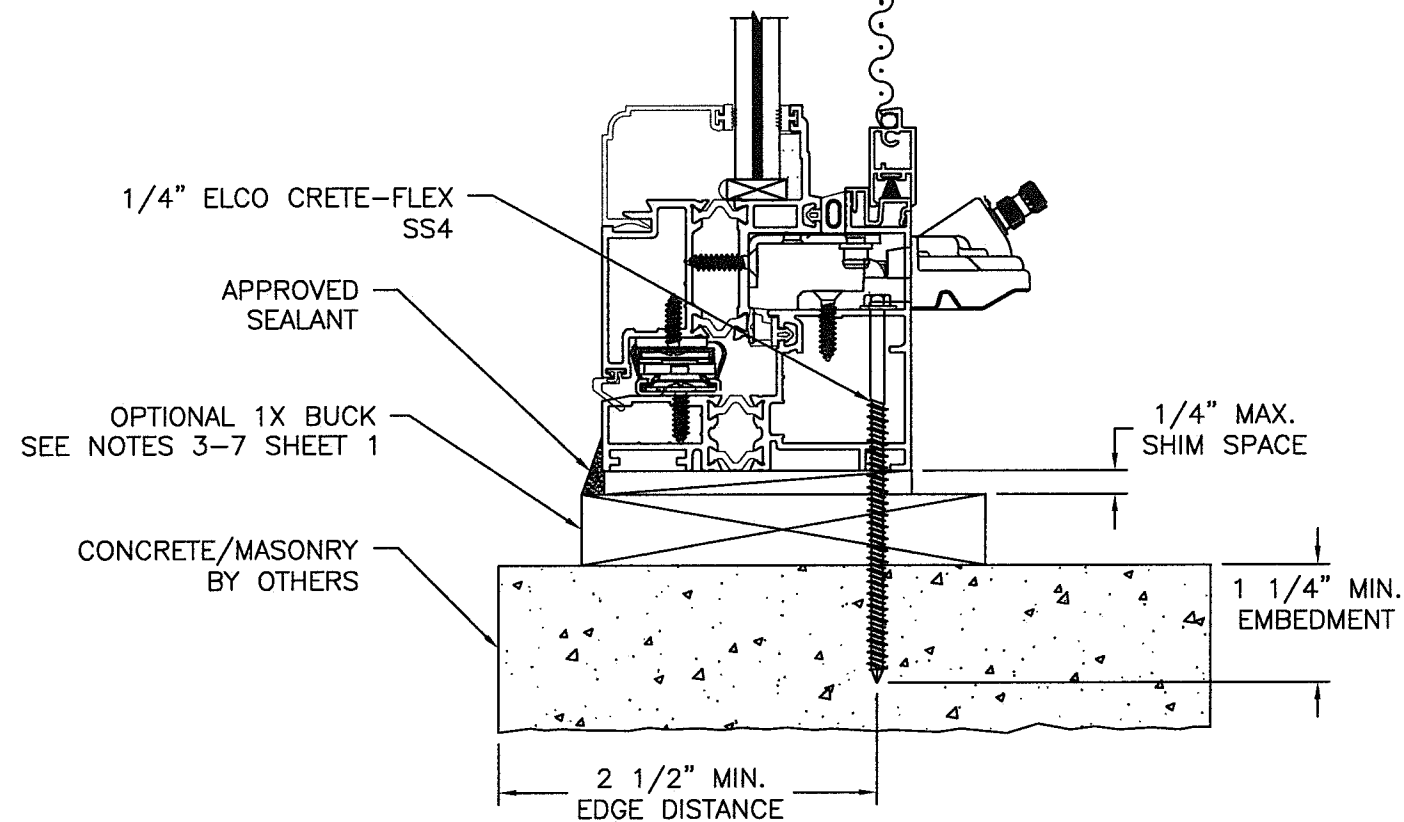
NO CHANGES THIS SHEET.

WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	08/12/20	Rev.	
		By	ERIN KOSS	DWG No.	9060-LMI-NOA
Series	Desc.	Title		Sheet	
CA9060T	INSTALLATION DETAILS - EQUAL LEG	THERMALLY BROKEN ALUM. CASEMENT (LM)		7 OF 13	





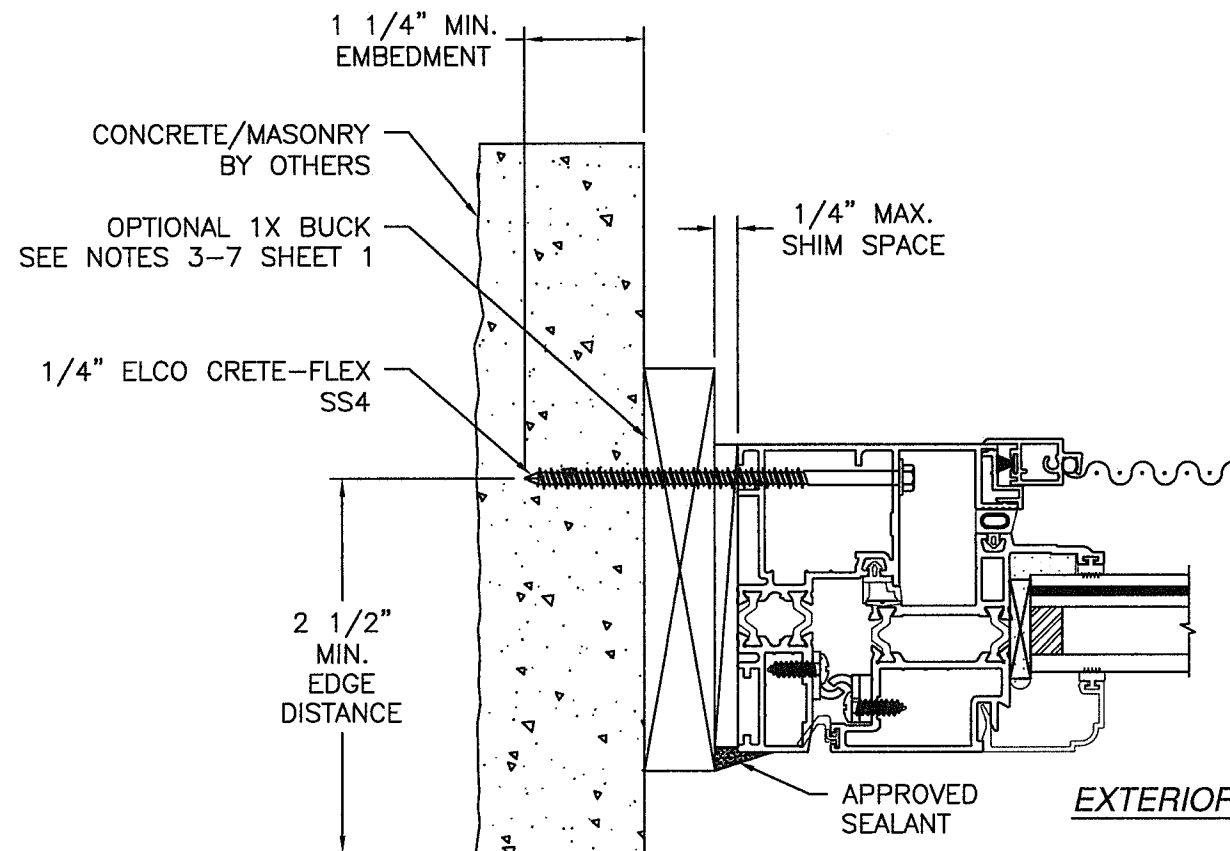
EXTERIOR



(A)
8 **VERTICAL CROSS SECTION**
CONCRETE/MASONRY INSTALLATION

NOTES:

1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

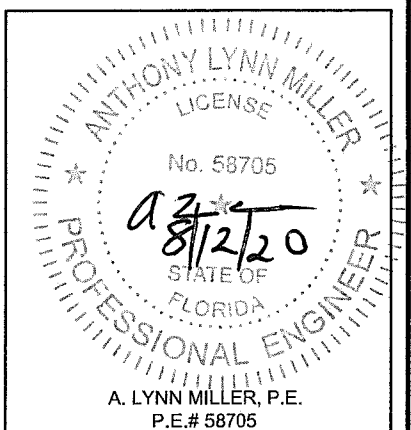


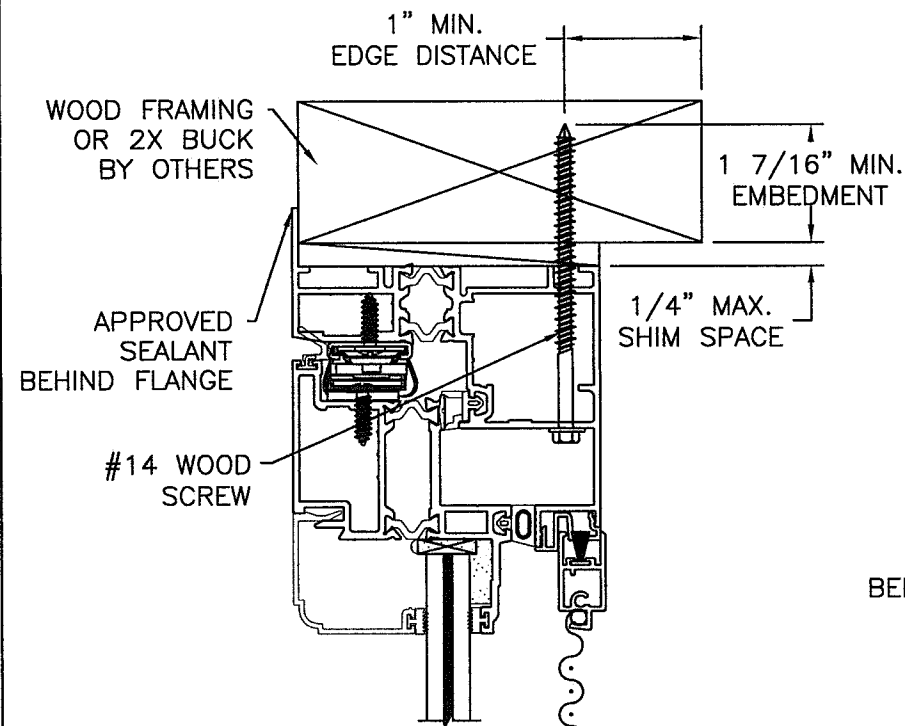
(B)
8 **JAMB INSTALLATION DETAIL**
CONCRETE/MASONRY INSTALLATION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By *[Signature]*
Miami-Dade Product Control

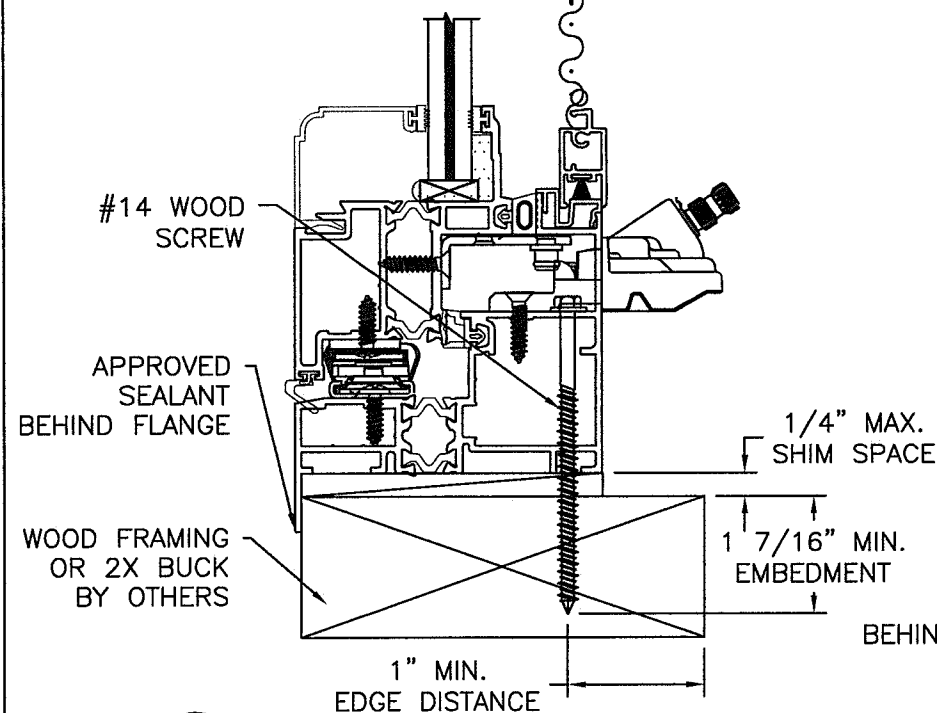
Revision: NO CHANGES THIS SHEET.

WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		08/12/20 Date		Rev
	THERMALLY BROKEN ALUM. CASEMENT (LM)		ERIN KOSS By		9060-LMI-NOA
	INSTALLATION DETAILS - EQUAL LEG		DWG No.		8 OF 13
	CA9060T		Sheet		

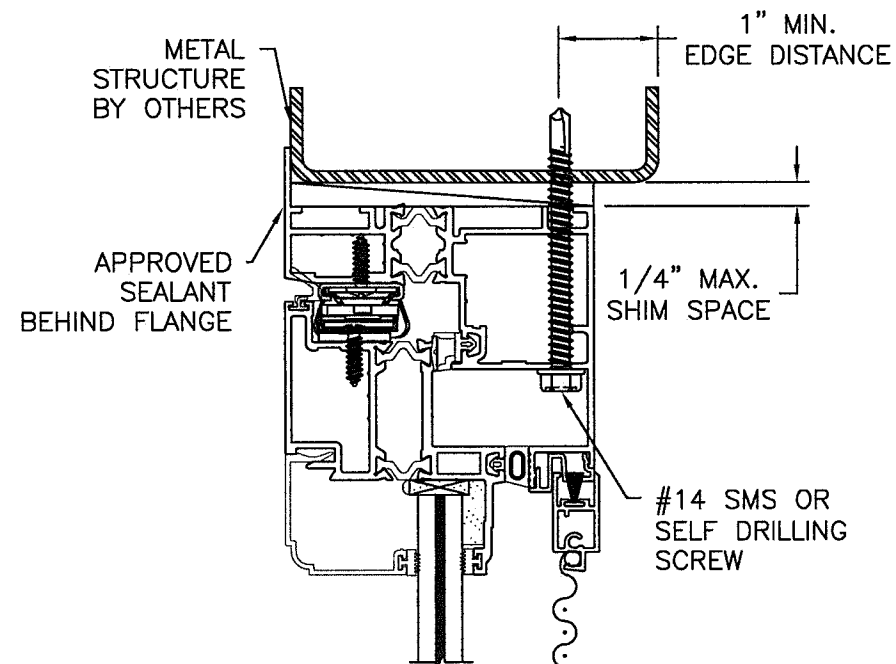




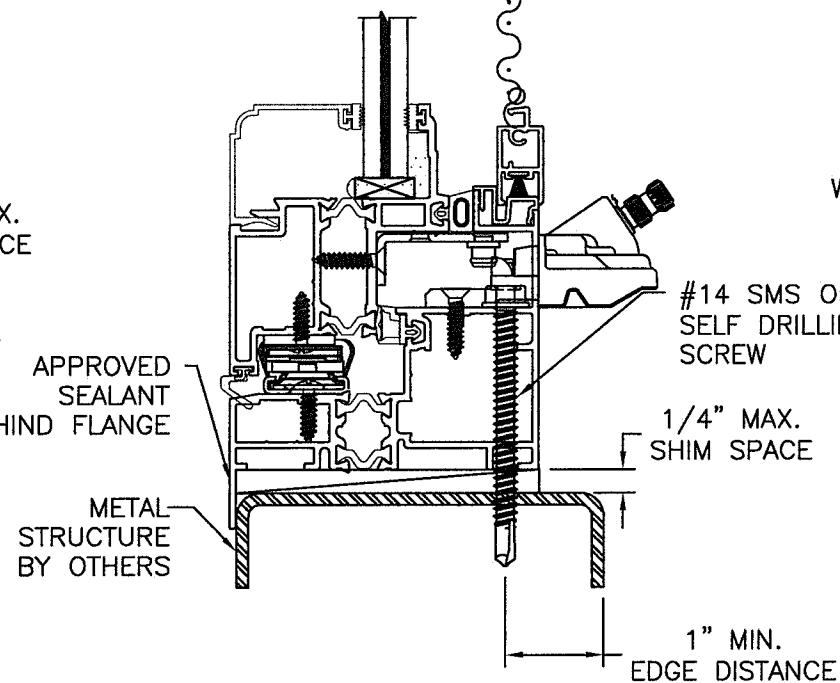
EXTERIOR



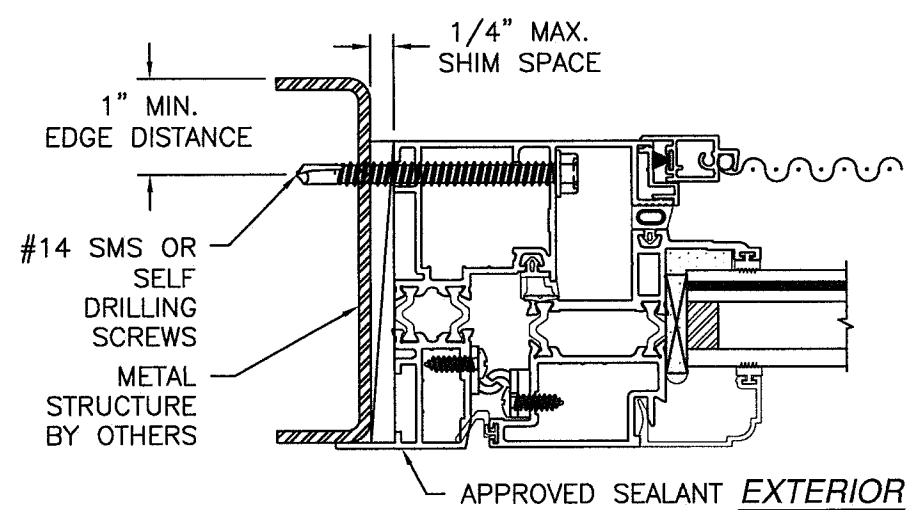
(A/9) VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



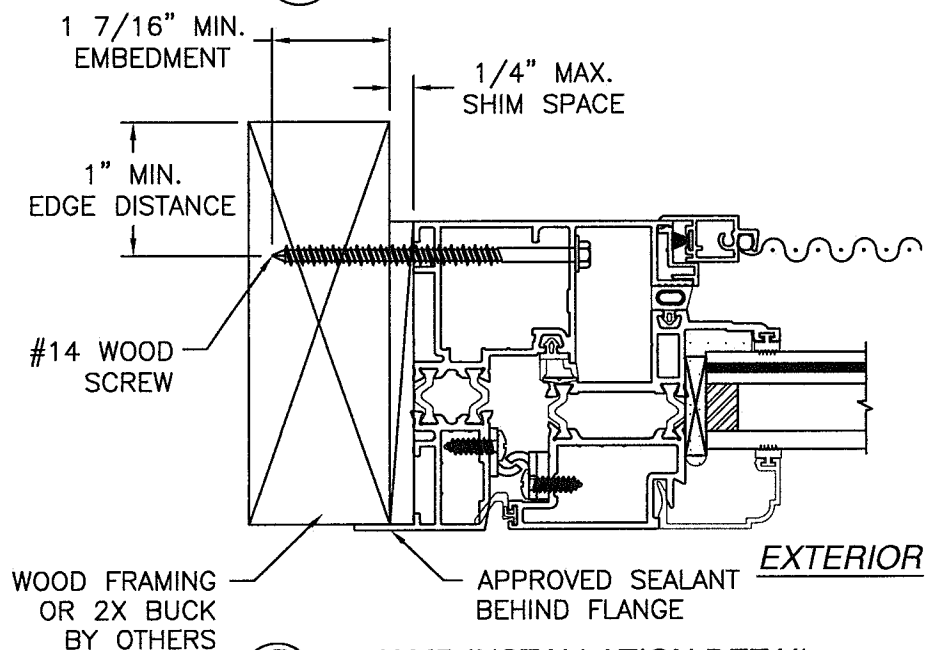
EXTERIOR



(A/9) VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



(B/9) JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



(B/9) JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

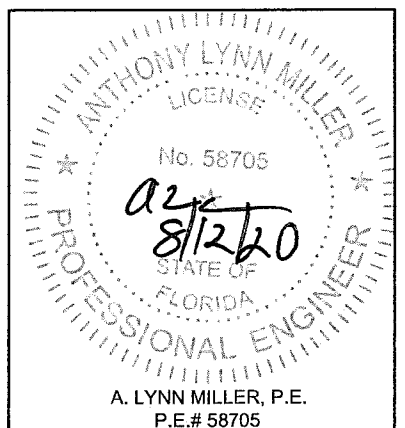
NOTES:

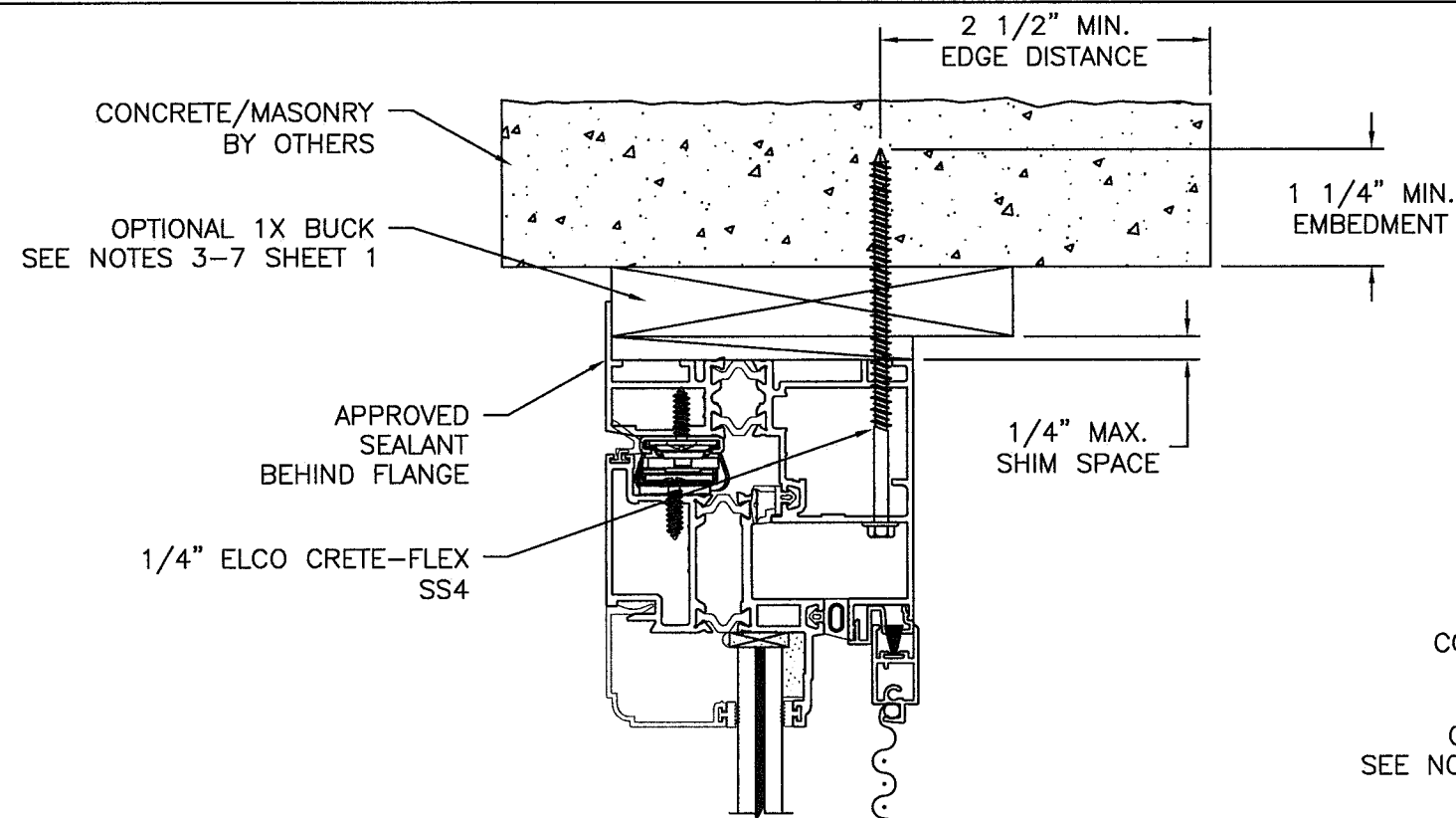
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By *[Signature]*
Miami-Dade Product Control

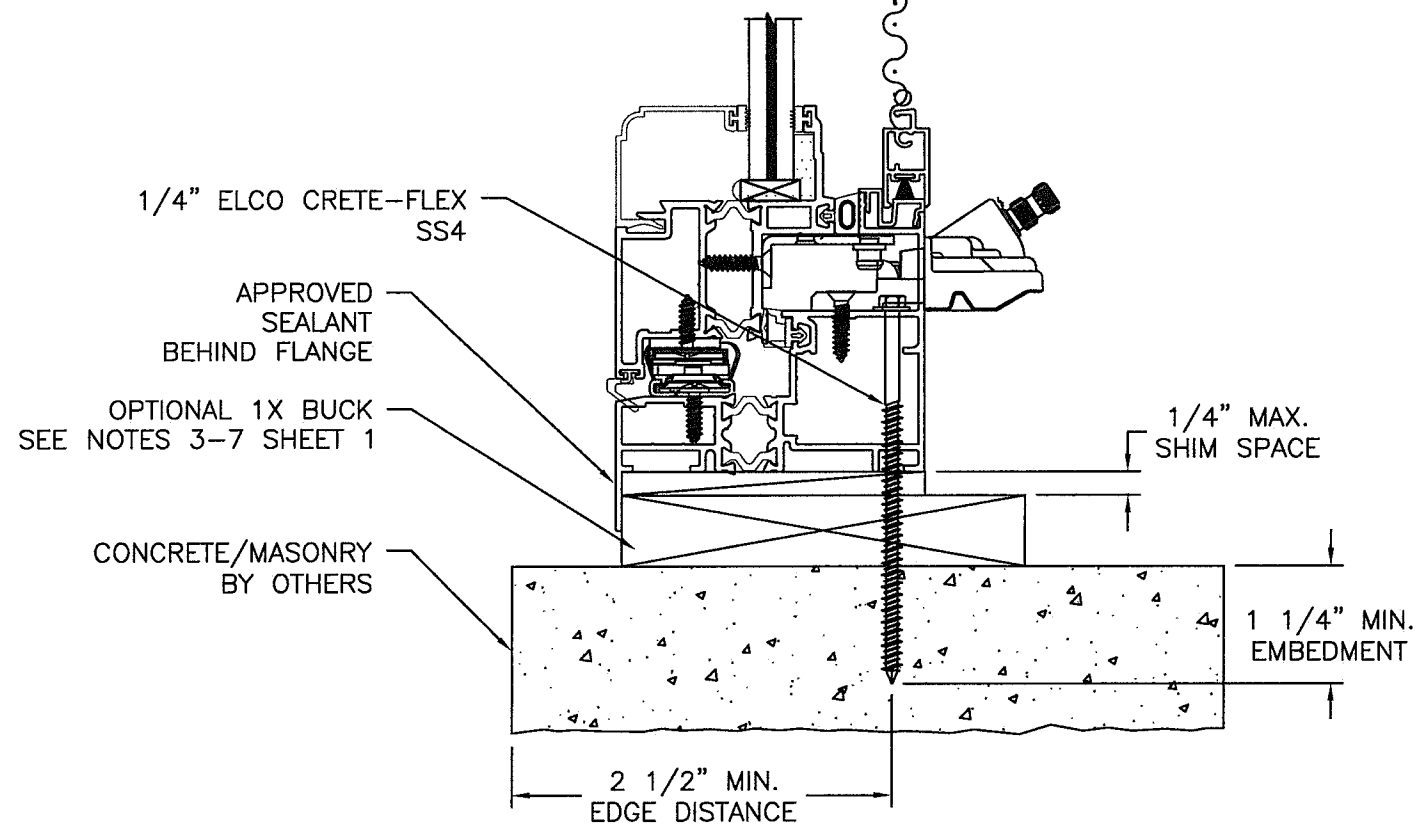
NO CHANGES THIS SHEET.

WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		08/12/20	Rev.
	THERMALLY BROKEN ALUM. CASEMENT (LM)		Date	By
	INSTALLATION DETAILS - FLANGE		ERIN KOSS	9060-LMI-NOA
	CA9060T		9 OF 13	DWG No.





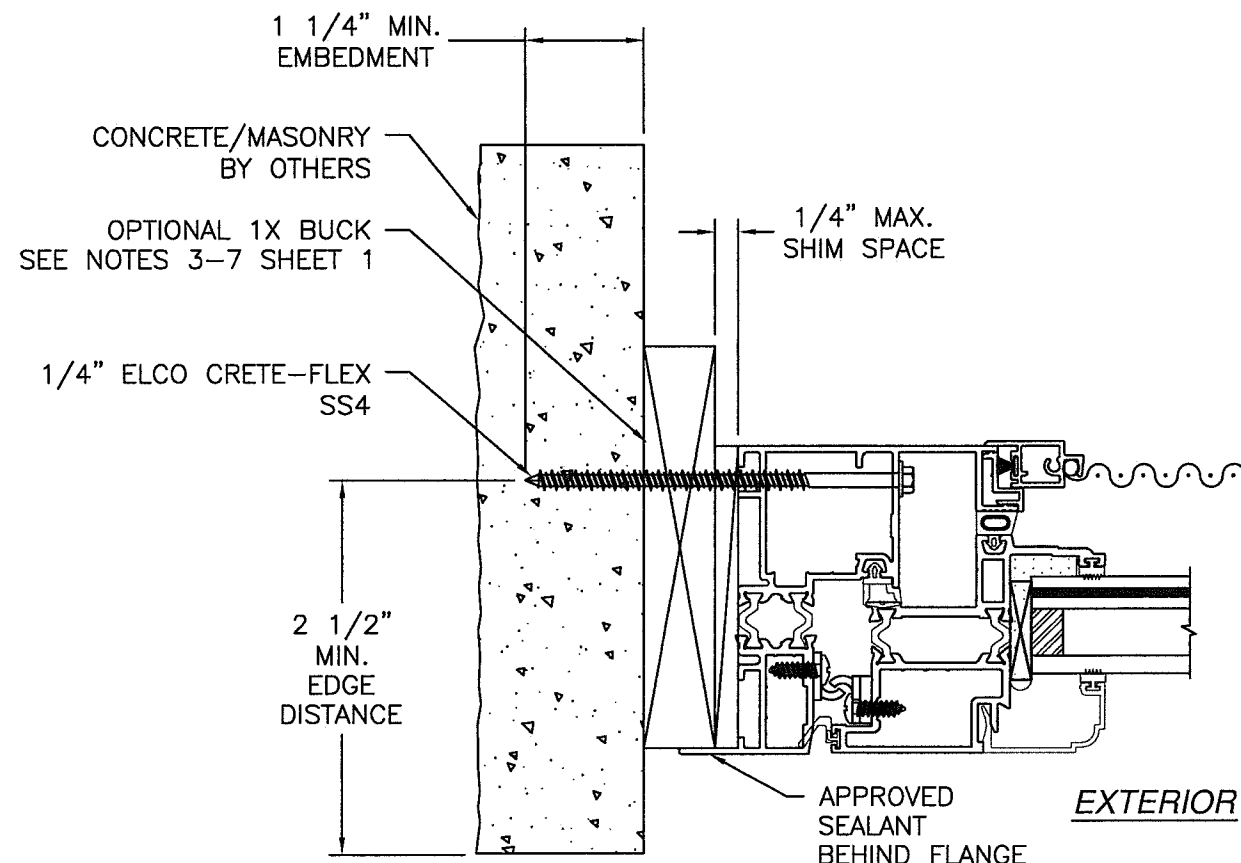
EXTERIOR



A
10 VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

NOTES:

1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

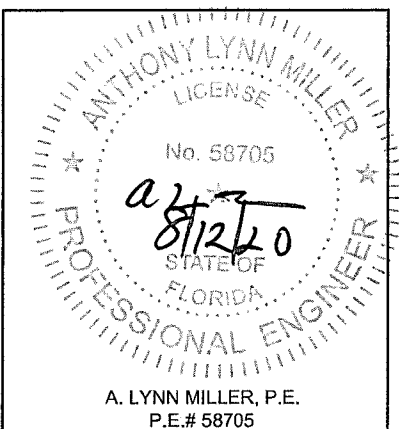


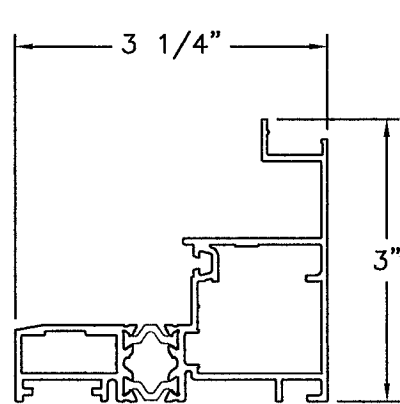
B
10 JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By *CS*
Miami-Dade Product Control

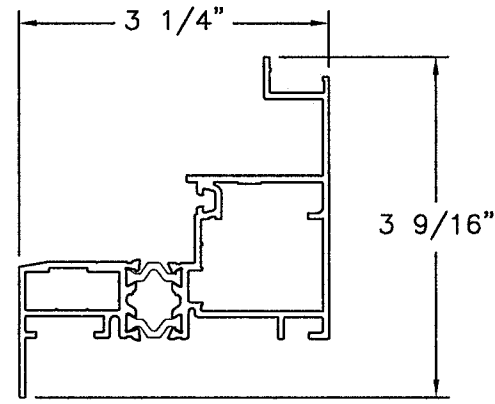
Revision: NO CHANGES THIS SHEET.

WINDOOR® INCORPORATED		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296			
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		THERMALLY BROKEN ALUM. CASEMENT (LM)		Date	08/12/20
CA9060T		INSTALLATION DETAILS - FLANGE		By Drawn	ERIN KOSS
Sheet		10 OF 13		DWG No.	9060-LMI-NOA
Series		Desc.		Rev.	

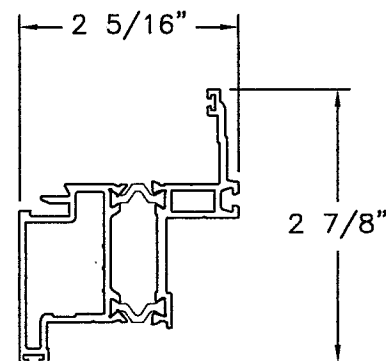




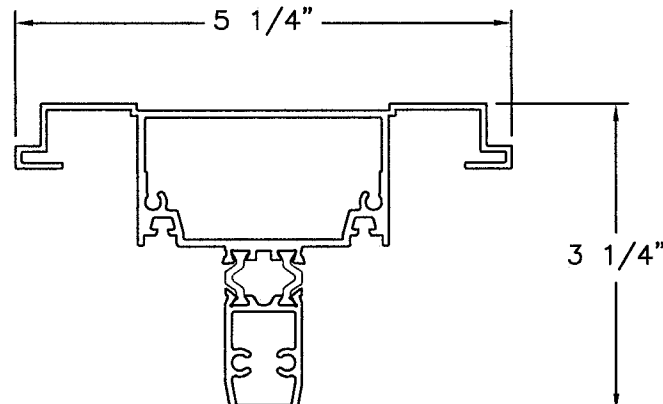
① **FRAME**
ALUMINUM 6063-T6 .065" THICK



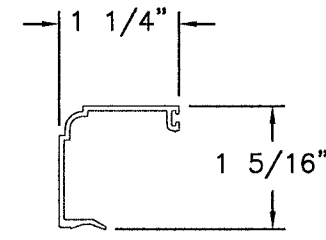
② **FLANGE FRAME**
ALUMINUM 6063-T6 .065" THICK



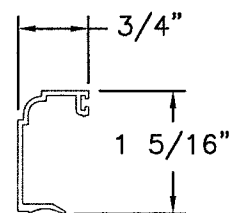
③ **SASH ASSEMBLY**
ALUMINUM 6063-T6 .065" THICK



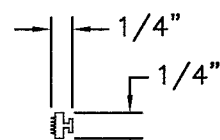
④ **COMMON POST**
ALUMINUM 6063-T6 .065" THICK



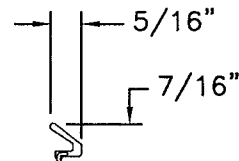
②① **GLASS STOP**
ALUMINUM 6063-T6 .065" THICK



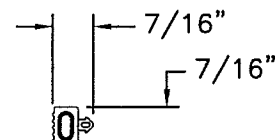
②② **GLASS STOP**
ALUMINUM 6063-T6 .065" THICK



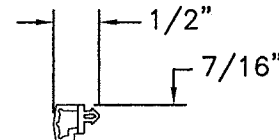
②③ **GLAZING VINYL**
PVC 80 DUROMETER



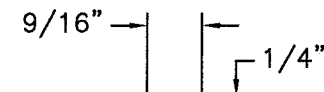
③① **FLAP SEAL**
FOAM



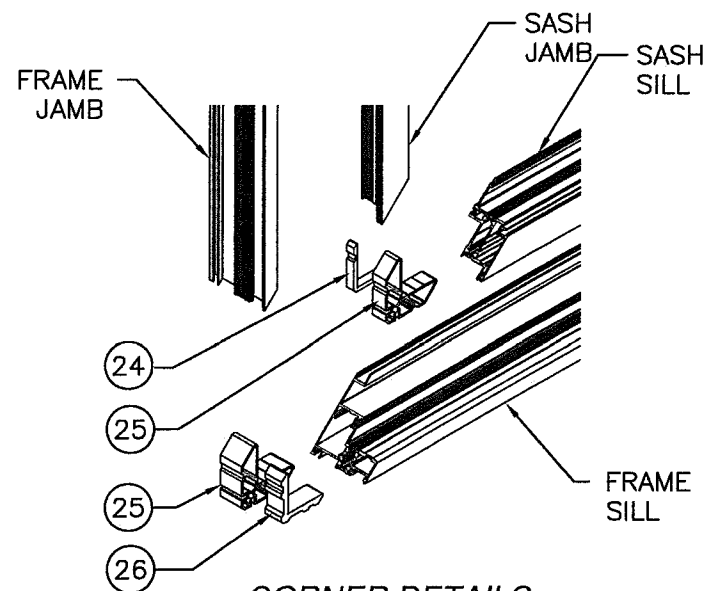
③② **WEATHERSTRIP**
EPDM 70 DUROMETER



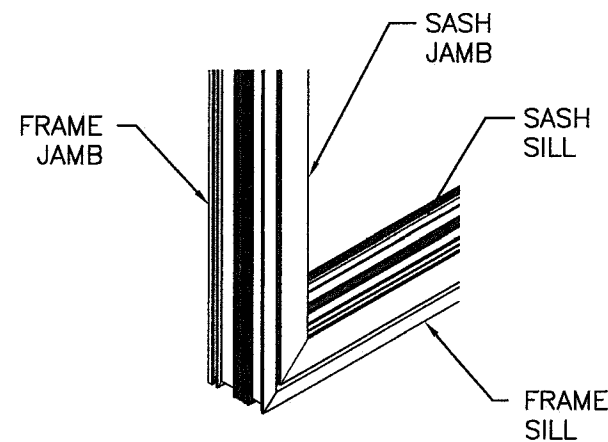
③③ **WEATHERSTRIP**
EPDM 75 DUROMETER



④⑥ **THERMAL STRUT**
NYLON POLYAMIDE .070" THICK
TENSILE STRENGTH 10,390 PSI



CORNER DETAILS

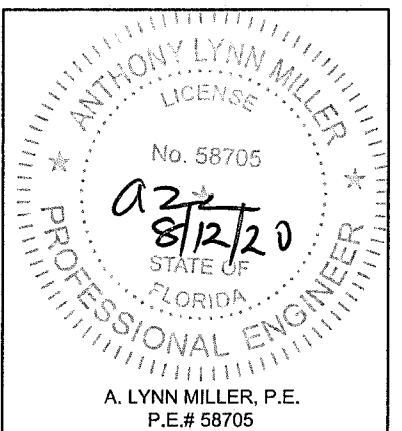


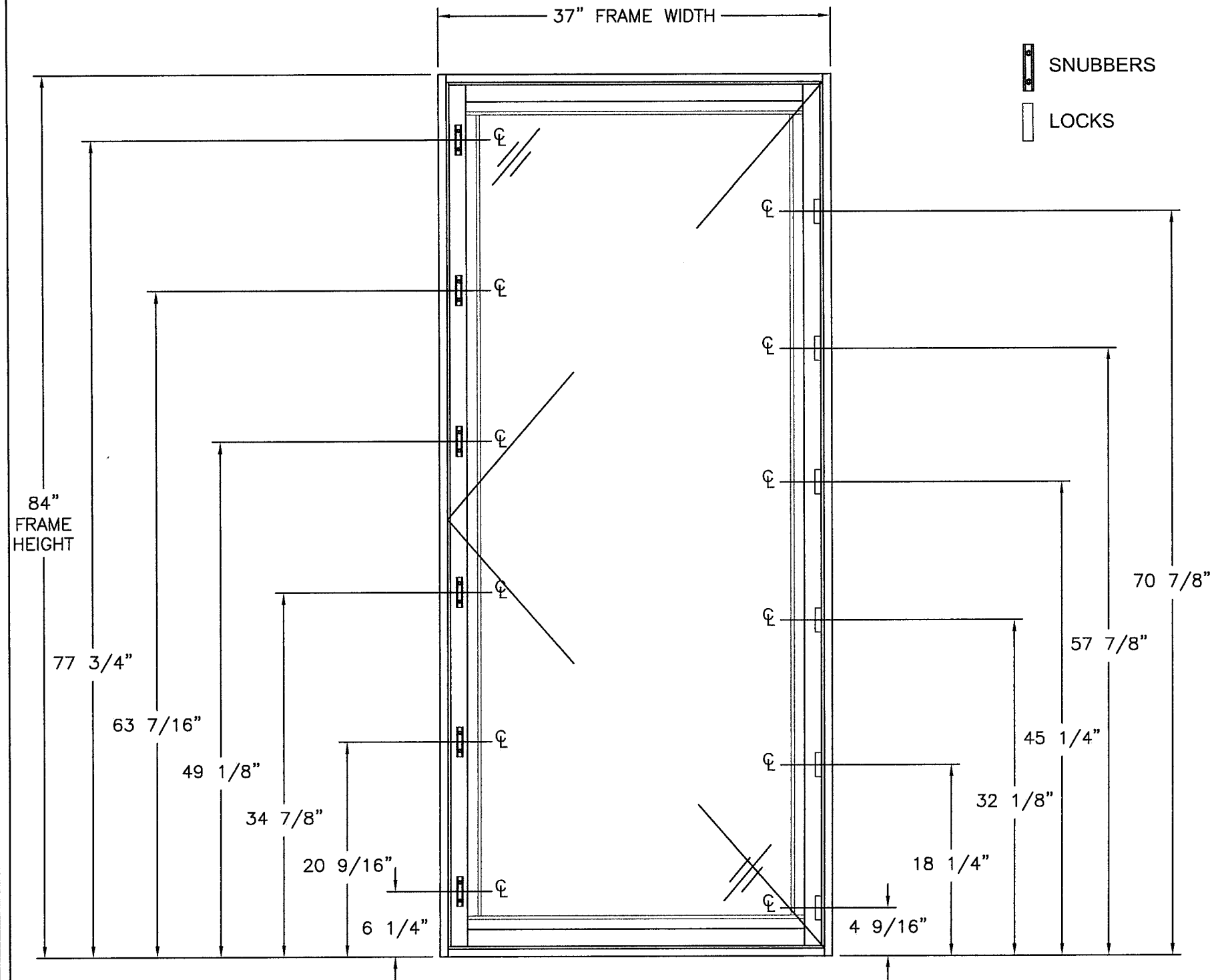
CORNER ASSEMBLY

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By *[Signature]*
Miami-Dade Product Control

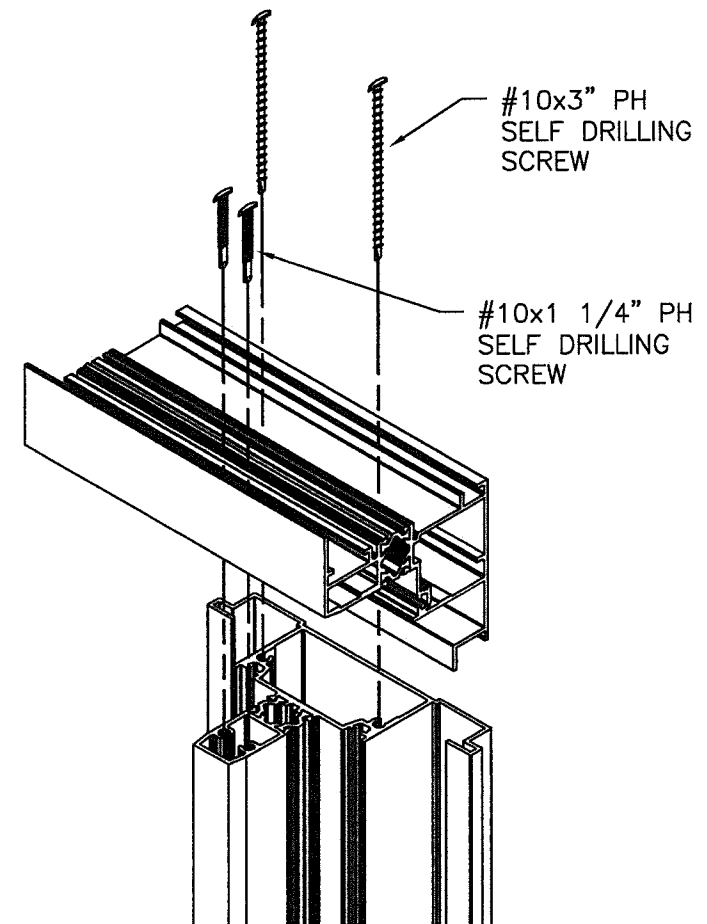
Revision: NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	THERMALLY BROKEN ALUM. CASEMENT (LM) EXTRUSIONS CA9060T	11 OF 13 Sheet	DWG No. 9060-LM-NOA	Drawn By ERIN KOSS	Date 08/12/20	Rev.





SINGLE UNIT LOCK AND SNUBBER LOCATIONS

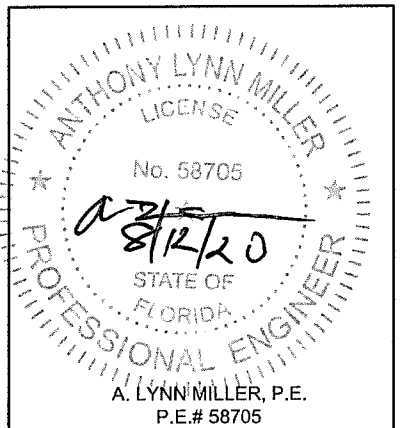


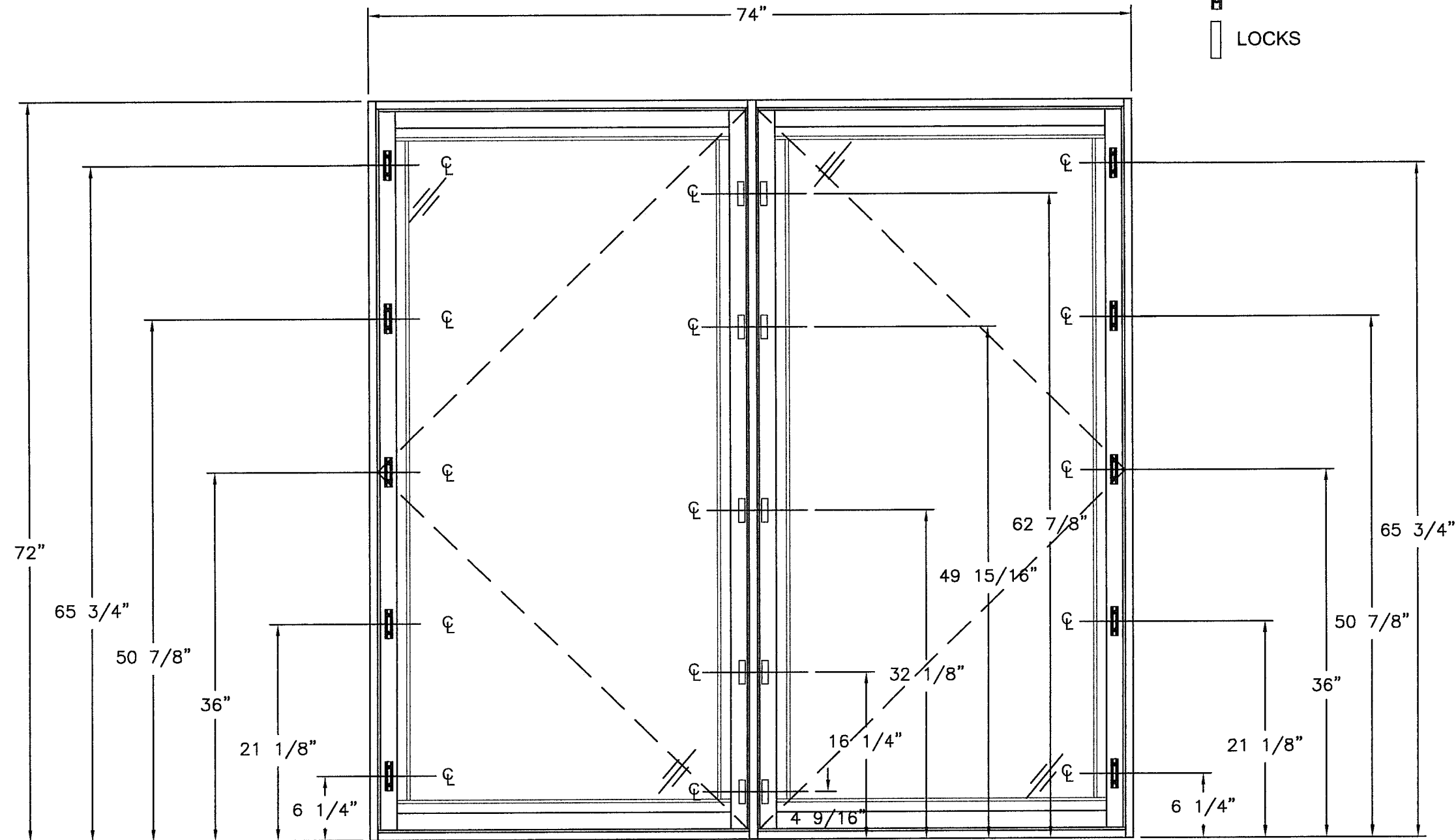
COMMON POST ATTACHMENT DETAIL

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By *[Signature]*
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET.

<div>WINDOOR® INCORPORATED</div> <div>WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432</div>		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296			
Title		THERMALLY BROKEN ALUM. CASEMENT (LM)		Date	08/12/20
Series		CA9060T		By	
Sheet		12 OF 13		ERIN KOSS	
DWG No.		9060-LMI-NOA		Rev.	





TWIN UNIT LOCKS AND
SNUBBERS LOCATIONS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.13
Expiration Date 08/08/2023
By *[Signature]*
Miami-Dade Product Control

NO CHANGES THIS SHEET.

Revision:

WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		Rev.	
	THERMALLY BROKEN ALUM. CASEMENT (LM)		Date	08/12/20
	HARDWARE LAYOUT - TWIN		By	ERIN KOSS
	CA9060T		DWG No.	9060-LMI-NOA
13 OF 13		Sheet		

