



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, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/building](http://www.miamidade.gov/building)

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 "9400 Thermally Broken" Aluminum Single Hung Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 9400 -LMI-NOA, titled "Thermally Broken Alum. Single Hung (LM)", sheets 1 through 11 of 11, dated 08/10/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.


**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA No. 18-0116.21 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



  
10/28/20

NOA No. 20-0826.14  
Expiration Date: March 02, 2022  
Approval Date: November 05, 2020  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 15-0914.12)*
2. Drawing No. **9400-NOA-LM**, titled "9400 Thermally Broken Large Missile Impact Single Hung Window", sheets 1 through 11 of 11, dated 01/20/17, with revision **A** dated 12/29/17, prepared by manufacturer, signed and sealed by Lucas A. Turner, P.E.  
*(Submitted under NOA No. 18-0116.21)*

**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 single hung window, prepared by National Certified Testing Laboratories, Inc., Test Reports No. **NCTL-210-3983-01**, **NCTL-210-3983-02** and **NCTL-210-3983-1C**, all dated 02/23/15, and all signed and sealed by Gerard J. Ferrara, P.E.  
*(Submitted under NOA No. 15-0914.12)*

**C. CALCULATIONS**


1. Anchor verification calculations and structural analysis, complying with **FBC 5<sup>th</sup> Edition (2014)**, prepared by Turner Engineering & Consulting, Inc., dated 08/24/15, signed and sealed by Lucas A. Turner, P.E.  
*(Submitted under NOA No. 15-0914.12)*
2. Glazing complies with **ASTM E1300-04**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/26/17, expiring on 07/04/23.
2. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/18/18, expiring on 07/08/19.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 20-0826.14  
Expiration Date: March 02, 2022  
Approval Date: November 05, 2020

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**E. MATERIAL CERTIFICATIONS (CONTINUED)**

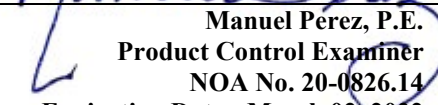
3. 0.500-inch (Length) by 0.26-inch (Height) by 0.0059-inch (Thickness) (12.5x6.6x0.15mm) Aluminum Low Profile Insulated-Glass spacer Helima AH 1256 N (P/N.: USA K 001 000 000 R7) with Aluminum Alloy AW-3000 (Ftu=17 ksi and Fty=12ksi) by Helmut Lingemann GmbH & Co., KG.
4. 0.375-inch (Length) by 0.26-inch (Height) by 0.0059-inch (Thickness) (9.5x4.95x0.15mm) Aluminum Low Profile Insulated-Glass spacer Helima AH 956 N (P/N.: USA K 001 000 000 R7) with Aluminum Alloy AW-3000 (Ftu=17 ksi and Fty=12ksi) by Helmut Lingemann GmbH & Co., KG.
5. Test Report No. **INT/ATI 60520.02-106-18R2**, prepared by Intertek/Architectural Testing, Inc., dated 11/09/06, revised on 06/01/16, issued to **Ensinger**, Inc., for their **Insulbar Tecatherm® 66 GF** per **ASTM D638-03** Tensile Strength of 13,031psi, **ASTM D635-98** Rate of Burning Class CC1 <sup>3</sup>/<sub>4</sub>-in./min. (19.1mm/min.), **ASTM D1929-96 Self Ignition** 781°F (416°C), **ASTM G 155** exposed per Xenon Arc after 4500 Hours irradiance level of 0.11 BTU/hr.xft<sup>2</sup> (0.35 W/m<sup>2</sup>) by 143°F (62°C) on 13 <sup>3</sup>/<sub>8</sub> in (340 mm) and **ASTM D2843-99** Smoke Density of 1.63, signed and sealed by Joseph A. Reed, P.E.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, dated December 29, 2017, issued and prepared by Turner Engineering & Consulting, Inc., signed and sealed by Lucas A. Turner, P.E.  
*(Submitted under NOA No. 18-0116.21)*
2. Statement letter of no financial interest, issued by Turner Engineering & Consulting, Inc., dated 08/24/15, signed and sealed by Lucas A. Turner, P.E.  
*(Submitted under NOA No. 15-0914.12)*
3. Laboratory compliance letter for Test Reports No. **NCTL-210-3983-01**, **NCTL-210-3983-02** and **NCTL-210-3983-1C**, issued by National Certified Testing Laboratories, Inc., all dated 02/23/15, all signed and sealed by Gerard J. Ferrara, P.E.  
*(Submitted under NOA No. 15-0914.12)*
4. Proposal No. **14-0590**, issued by the Product Control Section, dated 06/09/14, signed by Jaime D. Gascon, P.E.  
*(Submitted under NOA No. 15-0914.12)*

**G. OTHERS**

1. Notice of Acceptance No. **15-0914.12**, issued to WinDoor, Inc. for their Series "9400 Thermal Broken" Aluminum Single Hung Window L.M.I., approved on 03/02/17 and expiring on 03/02/22

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 20-0826.14  
Expiration Date: March 02, 2022  
Approval Date: November 05, 2020

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **9400- LMI-NOA**, titled “Thermally Broken Alum. Single Hung (LM)”, sheets 1 through 11 of 11, dated 08/10/20, prepared by manufacturer, 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  
6) Forced Entry Test, per ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc., CGI Windows and Doors, Inc. and WinDoor, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, per Proposal #19-1155TP, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:

**PGT Industries, Inc. test specimens:**

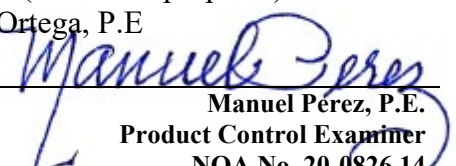
**FTL-7897**, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14  
**FTL-20-2107.1**, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal)  
**FTL-20-2107.2**, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal)  
**FTL-20-2107.3**, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and  
**FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal)  
all dated 07/13/20 and signed and sealed by Idalmis Ortega, P.E.

**CGI Windows and Doors Inc. test specimens:**

**FTL-20-2108.1**, CGI SH360 Aluminum Single Hung Window (unit 1 in proposal)  
**FTL-20-2108.2**, CGI CA238 Alum. Outswing Casement Window (unit 2 in proposal)  
**FTL-20-2108.3**, CGI SGD560 Aluminum Sliding Glass Door (unit 3 in proposal)  
**FTL-20-2108.4**, CGI PW410 Aluminum Fixed Window (unit 4 in proposal) and  
**FTL-20-2108.5**, CGI SH360 Aluminum Single Hung Window (unit 5 in proposal)  
all dated 08/24/20 and signed and sealed by Idalmis Ortega, P.E.

**WinDoor, Inc. test specimens:**

**FTL-20-2078.1**, WinDoor PW3000 Aluminum Fixed Lite (unit 11 in proposal)  
**FTL-20-2078.2**, WinDoor HR9470 Thermally Broken Alum. Horiz. Roller (unit 12)  
**FTL-20-2078.3**, WinDoor SGD8100 Alum. Sliding Glass Door (unit 13 in proposal)  
**FTL-20-2078.4**, WinDoor HR9470 Thermally Broken Alum. Horiz. Roller (unit 14)  
**FTL-20-2078.5**, WinDoor PW9020 Alum. Fixed Lite (unit 15 in proposal) and  
**FTL-20-2078.6**, WinDoor PW9020 Alum. Fixed Lite (unit 16 in proposal)  
all dated 09/24/20 and signed and sealed by Idalmis Ortega, P.E.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 20-0826.14  
Expiration Date: March 02, 2022  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED (CONTINUED)**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 5<sup>th</sup> Edition (2014)**, prepared by Turner Engineering & Consulting, Inc., dated 08/24/15, signed and sealed by Lucas A. Turner, P.E., updated to comply with **FBC 7<sup>th</sup> Edition (2020)**, on 08/11/20 by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with **ASTM E1300-04/09**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, and **FBC 7<sup>th</sup> Edition (2020)**, dated August 11, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated August 11, 2020, issued by manufacturer, 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.

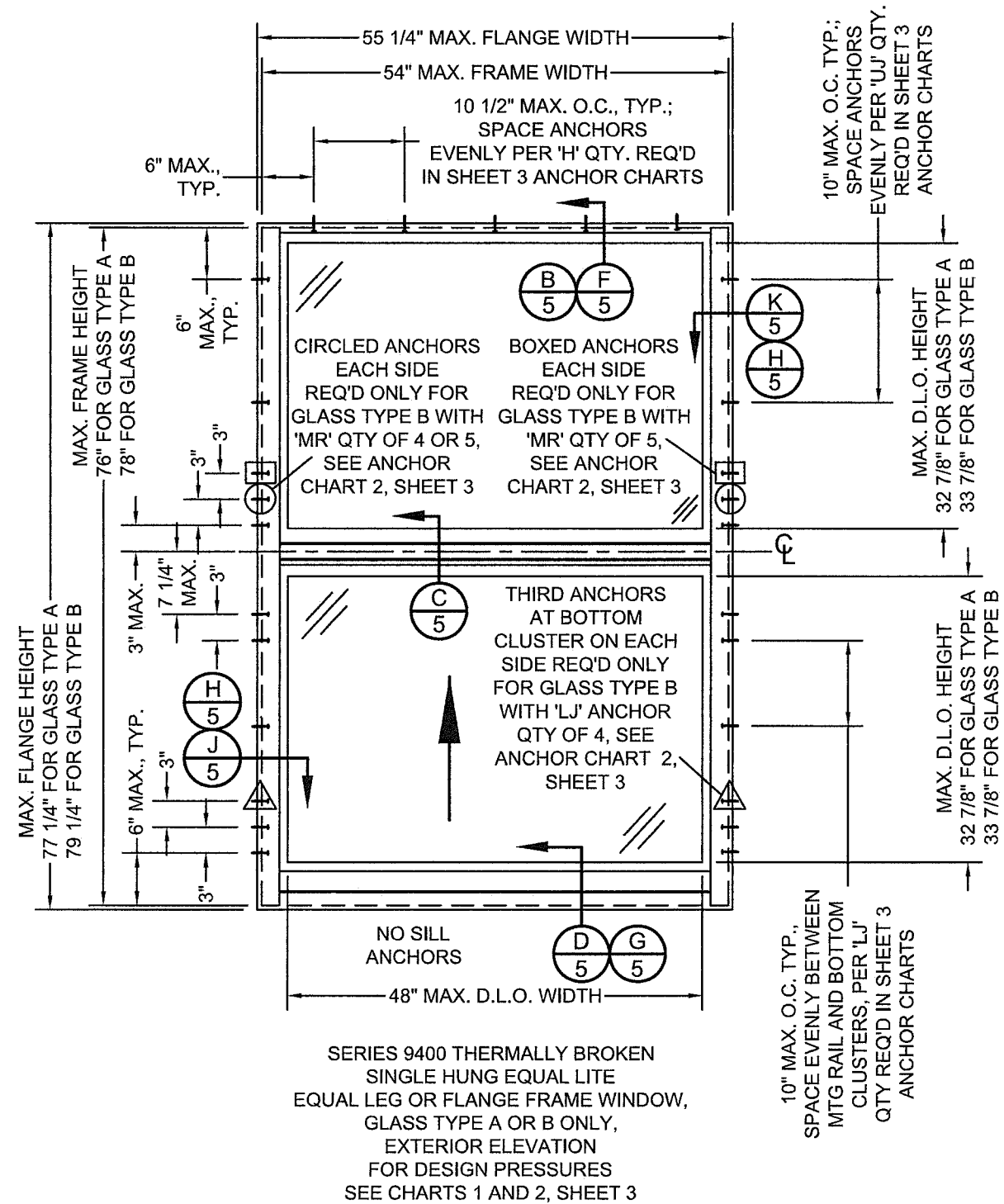
**G. OTHERS**

1. Notice of Acceptance No. **18-0116.21**, issued to WinDoor, Inc. for their Series “9400 Thermal Broken” Aluminum Single Hung Window - L.M.I., approved on 03/29/18 and expiring on 03/02/22

  
Manuel Pérez, P.E.  
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10" MAX. O.C. TYP.,  
SPACE EVENLY BETWEEN  
MTG RAIL AND BOTTOM  
CLUSTERS, PER 'LJ'  
QTY REQ'D IN SHEET 4  
ANCHOR CHARTS

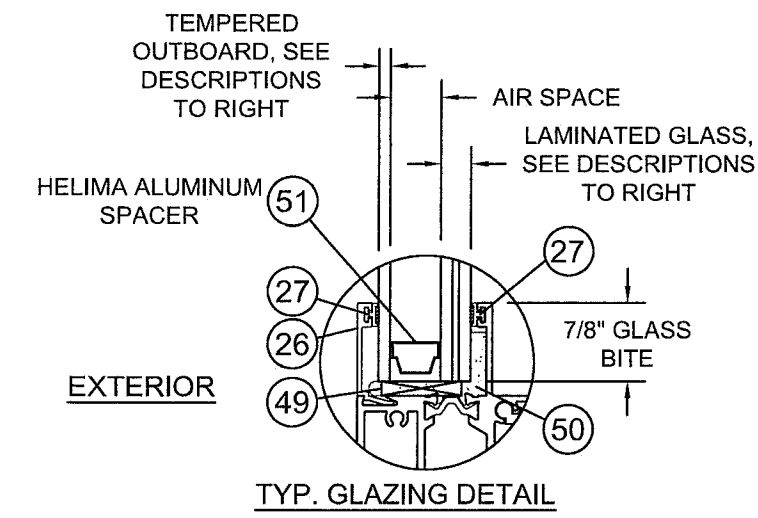


ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
a2/8/11/20  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.  
P.E.# 58705

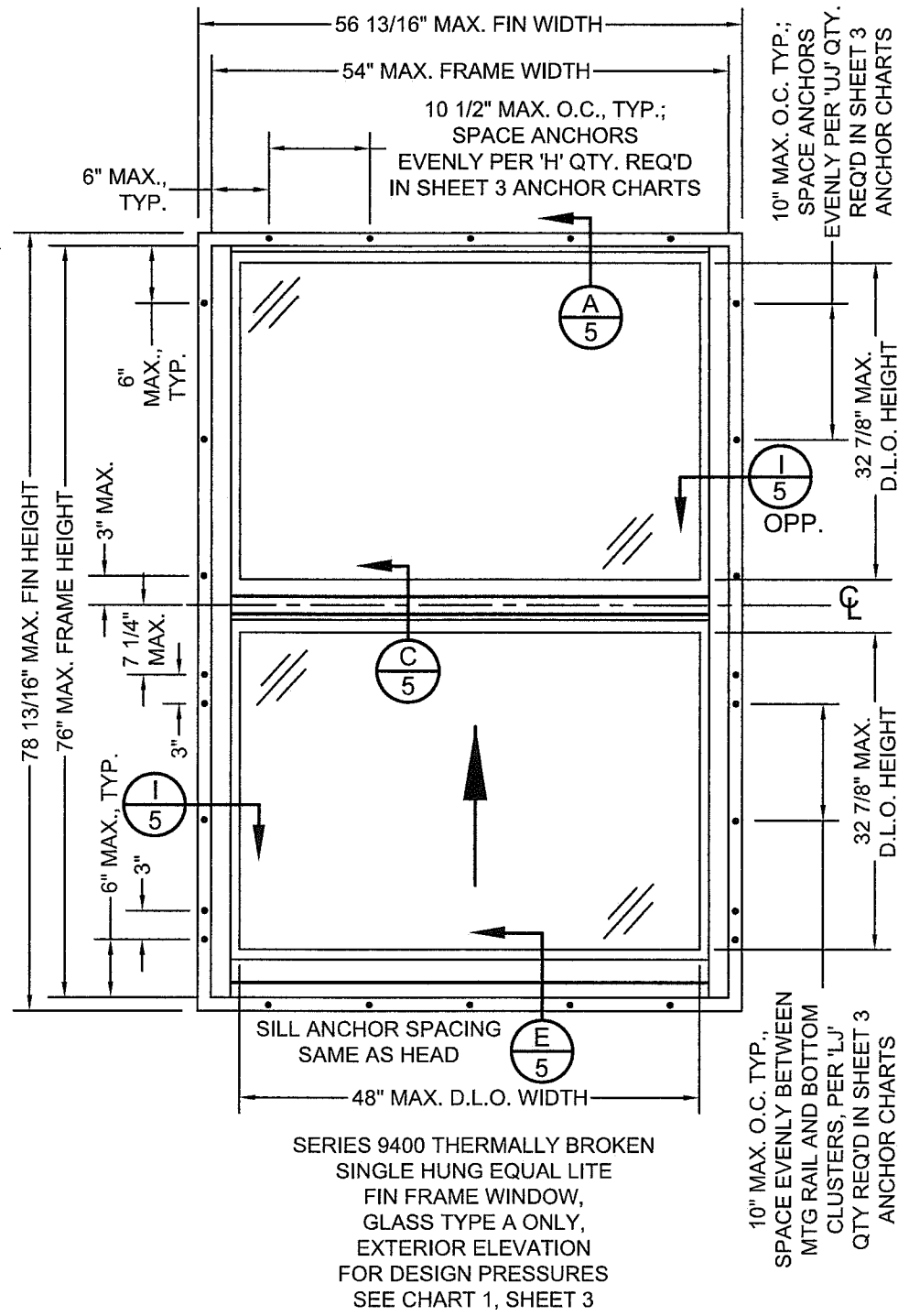
GENERAL NOTES

1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.
2. THIS PRODUCT HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440-08, ASTM E 1886-05, ASTM E 1996-05/09, AND TAS 201/202/203-94, AND MEETS THE REQUIREMENTS OF THE 6TH EDITION (2017) AND 7TH EDITION (2020) FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
3. ALLOWABLE CONFIGURATIONS ARE AS INDICATED HEREIN.
4. THE DESIGN PRESSURE RATINGS (SEE SHEETS 3 AND 4) IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 04/09 GLASS TABLES, TESTED WATER, STRUCTURAL, AND CYCLIC PRESSURES, AND COMPARATIVE ANALYSIS (LIMITED BY CYCLIC AND WATER).
5. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
6. INSTALLATION OF WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVE THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR A.H.J. WHEN INSTALLING INTO CONCRETE (OR MASONRY AT JAMBS ONLY) WITH WOOD BUCKS LESS THAN 1-1/2" THICK, ANCHOR EMBEDMENT SHALL BE INTO CONCRETE (OR MASONRY AT JAMBS ONLY). WHEN INSTALLING INTO WOOD BUCKS 1-1/2" OR THICKER OVER CONCRETE (OR MASONRY AT JAMBS ONLY), ANCHOR EMBEDMENT SHALL BE INTO THE WOOD.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC CHAPTER 20 TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH 6063-T6 ALUMINUM. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
8. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS USING ASTM E-2112 AND IS NOT ADDRESSED BY THIS DOCUMENT.
10. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK, USE #12 GRADE 5 STEEL WOOD SCREWS WITH 1-3/8" MINIMUM EMBEDMENT INTO SUBSTRATE AND 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO CONCRETE, USE:
- A. 1/4" ELCO ULTRACONS: 1-3/4" MIN. EMBEDMENT, 1" MIN. EDGE DISTANCE, 3" MIN. O.C.
- B. 1/4" DEWALT ULTRAACON+: 1-3/4" MIN. EMBEDMENT, 1-3/16" MIN. EDGE DISTANCE, 3" MIN. O.C.
- C. 1/4" ELCO CRETE-FLEX: 1-3/4" MIN. EMBEDMENT, 1" MIN. EDGE DISTANCE, 3" MIN. O.C.
- D. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. CONCRETE SHALL NOT BE CRACKED.
12. FOR ANCHORING INTO MASONRY (ONLY AT JAMBS), USE:
- A. 1/4" ELCO ULTRAACON, DEWALT ULTRAACON+ OR ELCO CRETE-FLEX: 1-1/4" MIN. EMBEDMENT, 2-1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.
- B. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. MASONRY SHALL NOT BE CRACKED.
13. FOR ANCHORING INTO 0.060" MINIMUM 45KSI MIN. ULT. TENSILE STRENGTH STEEL, USE #12 ITW BUILDTEX TEKS SELECT SELF-DRILLING STRUCTURAL FASTENERS (GRADE 5) WITH FULL THREAD ENGAGEMENT THROUGH THE METAL WALL THICKNESS AND 1/2" MINIMUM EDGE DISTANCE. FOR ANCHORING INTO 1/8" MINIMUM THICKNESS 6063-T5 ALUMINUM OR 45KSI MIN. ULT. TENSILE STRENGTH STEEL, USE #12 GRADE 5 SELF-DRILLING FASTENER WITH FULL THREAD ENGAGEMENT THROUGH THE METAL WALL THICKNESS AND 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTRUCTIONS AND MINIMUM SUBSTRATE STRENGTH SHALL BE AS FOLLOWS:
- A. WOOD - MIN. SPECIFIC GRAVITY OF 0.42 (SPRUCE-PINE-FIR)
- B. SOLID CONCRETE - 3350 PSI MIN. COMPRESSIVE STRENGTH MASONRY/CMU AT JAMBS ONLY - STRENGTH CONFORMANCE TO ASTM C-90 WITH NORMAL COMPRESSIVE STRENGTH OF 2 KSI MIN.
- C. STEEL - 33 KSI MIN. YIELD STRENGTH, 45 KSI MIN. ULTIMATE TENSILE STRENGTH
- D. ALUMINUM - 6063-T5 MIN.



TYPE A: 1" INSULATED LAMI GLASS:  
1/8" TEMPERED OUTBOARD + 1/2" AIR SPACE  
WITH HELIMA ALUMINUM SPACER +  
5/16" LAMINATED CONSISTING OF:  
1/8" ANNEALED +  
0.090" KURARAY PVB® (CLEAR AND WHITE)  
GLASS INTERLAYERS BY KURARAY AMERICA, INC. +  
1/8" ANNEALED

TYPE B: 1" INSULATED LAMI GLASS:  
3/16" TEMPERED OUTBOARD + 3/8" AIR SPACE  
WITH HELIMA ALUMINUM SPACER +  
7/16" LAMINATED CONSISTING OF:  
3/16" ANNEALED +  
0.090" SENTRYGLAS® (CLEAR AND WHITE)  
GLASS INTERLAYERS BY KURARAY AMERICA, INC. +  
3/16" ANNEALED



TYPE C: 1" INSULATED LAMI GLASS:  
3/16" TEMPERED OUTBOARD + 1/2" AIR SPACE  
WITH HELIMA ALUMINUM SPACER +  
5/16" LAMINATED CONSISTING OF:  
1/8" HEAT STRENGTH. +  
0.090" SENTRYGLAS® (CLEAR AND WHITE)  
GLASS INTERLAYERS BY KURARAY AMERICA, INC. +  
1/8" HEAT STRENGTH.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-0826.14**  
Expiration Date: **03/02/22**  
By: *Manuel Perez*  
Miami-Dade Product Control

Revision:  
ADDED 1/4" ELCO ULTRAACON+

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	08/10/20	Date	ERIN KOSS	By	9400-LMI-NOA	Rev
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	THERMALLY BROKEN ALUM. SINGLE HUNG (LM)	GENERAL NOTES, GLAZING DETAILS & FIN ELEVATION	2 OF 11	DWG	SH9400T	Sheet

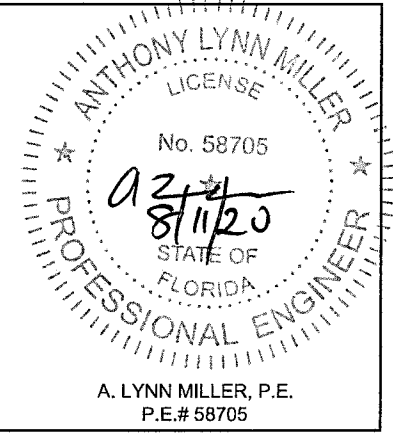




CHART 1. EQUAL LITE (FLANGE, FIN, OR EQ. LEG) WITH GLASS TYPE A DESIGN PRESSURES (PSF)

FRAME HEIGHT (in.)	SUB-STRATE	FRAME WIDTH (in.)					
		24	30	36	42	48	54
36	C/M/F	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
	W	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
42	C/M/F	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
	W	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
48	C/M/F	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
	W	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
54	C/M/F	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
	W	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
60	C/M/F	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
	W	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+89.0/-89.0	+82.0/-82.0
66	C/M/F	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
	W	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+89.0/-89.0	+82.0/-82.0
72	C/M/F	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
	W	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+89.0/-89.0	+78.0/-78.0
76	C/M/F	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
	W	+90.0/-90.0	+90.0/-90.0	+89.0/-89.0	+89.0/-89.0	+89.0/-89.0	+75.0/-75.0

CHART 2. EQUAL LITE (FLANGE OR EQ. LEG) WITH GLASS TYPE B DESIGN PRESSURES (PSF)

FRAME HEIGHT (in.)		FRAME WIDTH (in.)					
		24	30	36	42	48	54
36	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0
	W	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-143.0	+100.0/-143.0	+100.0/-125.0
42	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0
	W	+100.0/-154.0	+100.0/-154.0	+100.0/-153.0	+100.0/-143.0	+100.0/-129.0	+100.0/-125.0
48	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0
	W	+100.0/-154.0	+100.0/-154.0	+100.0/-146.0	+100.0/-141.0	+100.0/-129.0	+100.0/-125.0
54	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0
	W	+100.0/-154.0	+100.0/-154.0	+100.0/-140.0	+100.0/-132.0	+100.0/-129.0	+100.0/-125.0
60	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-149.5
	W	+100.0/-154.0	+100.0/-151.0	+100.0/-137.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0
66	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+97.9/-141.3
	W	+100.0/-134.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+97.9/-124.0
72	C/M	+100.0/-160.0	+100.0/-156.9	+100.0/-152.6	+100.0/-152.6	+100.0/-152.6	+93.4/-135.0
	W	+100.0/-134.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+93.4/-118.0
78	C/M	+100.0/-152.6	+95.1/-137.3	+90.5/-130.8	+90.0/-130.0	+90.0/-130.0	+90.0/-130.0
	W	+100.0/-134.0	+95.1/-125.0	+90.5/-125.0	+90.0/-116.0	+90.0/-116.0	+90.0/-106.0

ANCHOR QUANTITIES FOR CHART 1, SEE EQUAL LITE ELEVATIONS FOR LOCATIONS

FRAME HEIGHT (in.)	FRAME WIDTH (in.)															
	24				30				36				42			
	H	UJ	MR	LJ	H	UJ	MR	LJ	H	UJ	MR	LJ	H	UJ	MR	LJ
36	3	1	3	2	3	1	3	2	4	1	3	2	4	1	3	2
42	3	2	3	2	3	2	3	2	4	2	3	2	4	2	3	2
48	3	2	3	2	3	2	3	2	4	2	3	2	4	2	3	2
54	3	2	3	2	3	2	3	2	4	2	3	2	4	2	3	2
60	3	3	3	2	3	3	3	2	4	3	3	2	4	3	3	2
66	3	3	3	3	3	3	3	3	4	3	3	3	4	3	3	3
72	3	3	3	3	3	3	3	3	4	3	3	3	4	3	3	3
78	3	3	3	3	3	3	3	3	4	3	3	3	4	3	3	3

H = HEAD

MR = TOTAL QTY IN CLUSTER AT EACH END OF MEETING RAIL (INCLUDING ANCHORS ABOVE AND BELOW MTG RAIL)

UJ = UPPER JAMB NOT INCLUDING MEETING RAIL QTY

LJ = LOWER JAMB NOT INCLUDING MEETING RAIL QTY

ANCHOR QUANTITIES FOR CHART 2, SEE EQUAL LITE ELEVATION FOR LOCATIONS

FRAME HEIGHT (in.)	FRAME WIDTH (in.)															
	24				30				36				42			
	H	UJ	MR	LJ	H	UJ	MR	LJ	H	UJ	MR	LJ	H	UJ	MR	LJ
36	3	1	3	2	3	1	3	2	4	1	3	2	4	1	4	2
42	3	2	3	2	3	2	3	2	4	2	3	2	4	2	4	2
48	3	2	3	3	3	2	3	3	4	2	3	3	4	2	4	3
54	3	2	3	3	3	2	3	3	4	2	3	3	4	2	4	3
60	3	3	3	3	3	3	3	3	4	3	3	3	4	3	4	3
66	3	3	3	4	3	3	3	4	4	3	4	4	4	3	4	4
72	3	3	3	4	3	3	3	4	4	3	4	4	4	3	4	4
78	3	3	3	4	3	3	3	4	4	3	4	4	4	3	4	4

H = HEAD

MR = TOTAL QTY IN CLUSTER AT EACH END OF MEETING RAIL (INCLUDING ANCHORS ABOVE AND BELOW MTG RAIL)

UJ = UPPER JAMB NOT INCLUDING MEETING RAIL QTY

LJ = LOWER JAMB NOT INCLUDING MEETING RAIL QTY

CHART 1 AND 2 ANCHORAGE QUANTITY NOTES:

1. MAX. ANCHOR SPACING SHOWN IN THE ELEVATIONS ON SHTS 1 AND 2 SHALL NOT BE EXCEEDED.
2. FIN WINDOWS SHALL BE INSTALLED ONLY TO WOOD SUBSTRATES AS SHOWN ON SHEET 9.
3. SUBSTRATE C/M/F IN CHART 1 INDICATES CONCRETE (OR MASONRY AT JAMBS ONLY) OR METAL FOR FLANGE OR EQUAL LEG, AND APPLIES TO FIN WINDOWS INSTALLED TO WOOD THROUGH THE FIN. SUBSTRATE C/M IN CHART 2 INDICATES CONCRETE (OR MASONRY AT JAMBS ONLY) OR METAL. SUBSTRATE W IN BOTH CHARTS INDICATES FLANGE OR EQUAL LEG INSTALLED TO WOOD FRAMING.
4. ANCHOR QUANTITIES IN UJ AND LJ LOCATIONS INCLUDE CORNER ANCHORS; EVENLY SPACE ANY ADDITIONAL ANCHORS REQUIRED BEYOND CORNER ANCHOR(S) BETWEEN CORNER AND MEETING RAIL ANCHORS.
5. REDUCE CORNER OR ON-CENTER SPACING AS REQUIRED TO ENSURE 3" MIN. SPACING IS MAINTAINED BETWEEN ANY TWO FASTENERS

PRODUCT REVISED

as complying with the Florida Building Code

NOA-No. 20-0826.14

Expiration Date: 03/02/22

By: Manuel Perez

Miami-Dade Product Control

NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		Date	08/10/20	Rev.	
		By	ERIN KOSS	9400-LMI-NOA	
		DWG No.	3 OF 11	Sheet	
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		THERMALLY BROKEN ALUM. SINGLE HUNG (LM)		DP & ANCHORAGE CHARTS - EQUAL LITE	
		SH9400T			

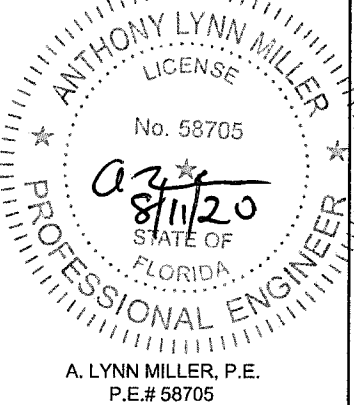




CHART 3. ORIEL (FLANGE OR EQ. LEG) WITH GLASS TYPE B SASH, GLASS TYPE C FIXED, DESIGN PRESSURES (PSF)

FRAME HEIGHT (in.)	SASH HEIGHT (in.)	SASH D.L.O. (in.)	FIXED D.L.O. (in.)	SUB- STRATE	FRAME WIDTH (in.)					
					24	30	36	42	48	54
66	24 1/4	18	36 7/8	C/M	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
				W	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
72	26 3/8	20 1/8	40 3/4	C/M	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
				W	+88.0/-88.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0
78	28 1/2	22 1/4	44 5/8	C/M	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
				W	+88.0/-88.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+78.0/-78.0
84	30 5/8	24 3/8	48 1/2	C/M	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
				W	+88.0/-88.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+76.0/-76.0
90	32 3/4	26 1/2	52 3/8	C/M	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
				W	+88.0/-88.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+80.0/-80.0	+73.0/-73.0
96	34 7/8	28 5/8	56 1/4	C/M	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
				W	+88.0/-88.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+80.0/-80.0	+73.0/-73.0
102	37	30 3/4	60 1/8	C/M	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
				W	+88.0/-88.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+80.0/-80.0	+72.0/-72.0
108	39 1/8	32 7/8	64	C/M	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0	+90.0/-90.0
				W	+88.0/-88.0	+87.0/-87.0	+87.0/-87.0	+87.0/-87.0	+80.0/-80.0	+72.0/-72.0

C/M = CONCRETE-MASONRY OR METAL SUBSTRATE

W = WOOD SUBSTRATE

ANCHOR QUANTITIES FOR CHART 3, SEE ORIEL ELEVATION FOR LOCATIONS

FRAME HEIGHT (in.)	FRAME WIDTH (in.)															
	24				30				36				42			
	H	UJ	MR	LJ	H	UJ	MR	LJ	H	UJ	MR	LJ	H	UJ	MR	LJ
66	3	4	4	2	3	4	3	2	4	4	4	2	4	4	4	2
72	3	5	4	2	3	5	3	2	4	5	4	2	4	5	4	2
78	3	5	4	2	3	5	3	2	4	5	4	2	4	5	4	2
84	3	5	4	2	3	5	3	2	4	5	4	2	4	5	4	2
90	3	6	4	2	3	6	3	2	4	6	4	2	4	6	4	2
96	3	6	4	3	3	6	3	3	4	6	4	3	4	6	4	3
102	3	7	4	3	3	7	3	3	4	7	4	3	4	7	4	3
108	3	7	4	3	3	7	3	3	4	7	4	3	4	7	4	3

H = HEAD

MR = TOTAL QTY IN CLUSTER AT EACH END OF MEETING RAIL (INCLUDING ANCHORS ABOVE AND BELOW MTG RAIL)

UJ = UPPER JAMB NOT INCLUDING MEETING RAIL QTY

LJ = LOWER JAMB NOT INCLUDING MEETING RAIL QTY

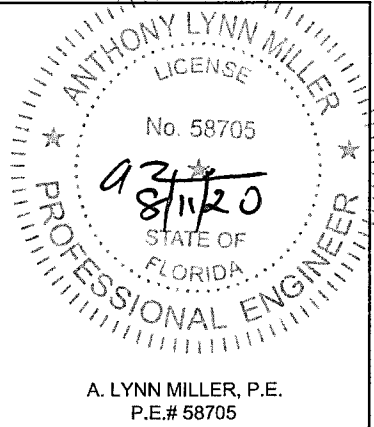
CHART 3 ANCHORAGE QUANTITY NOTES:

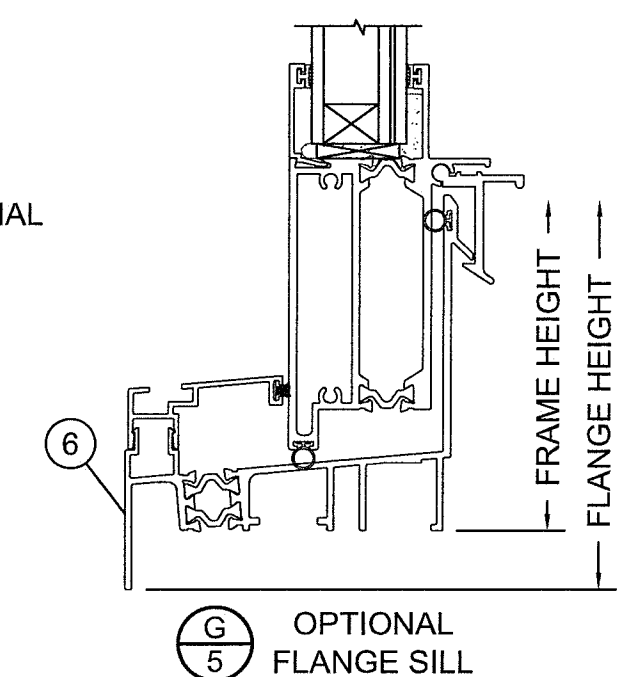
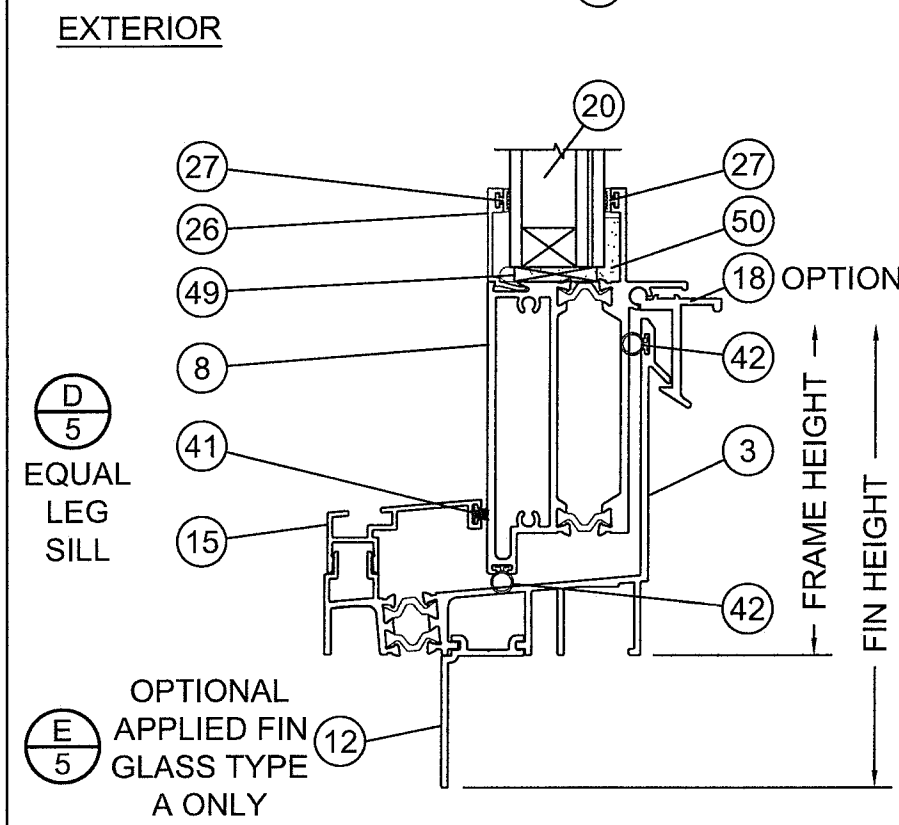
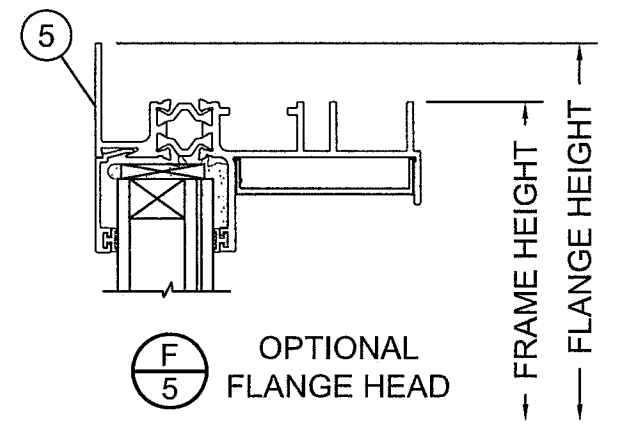
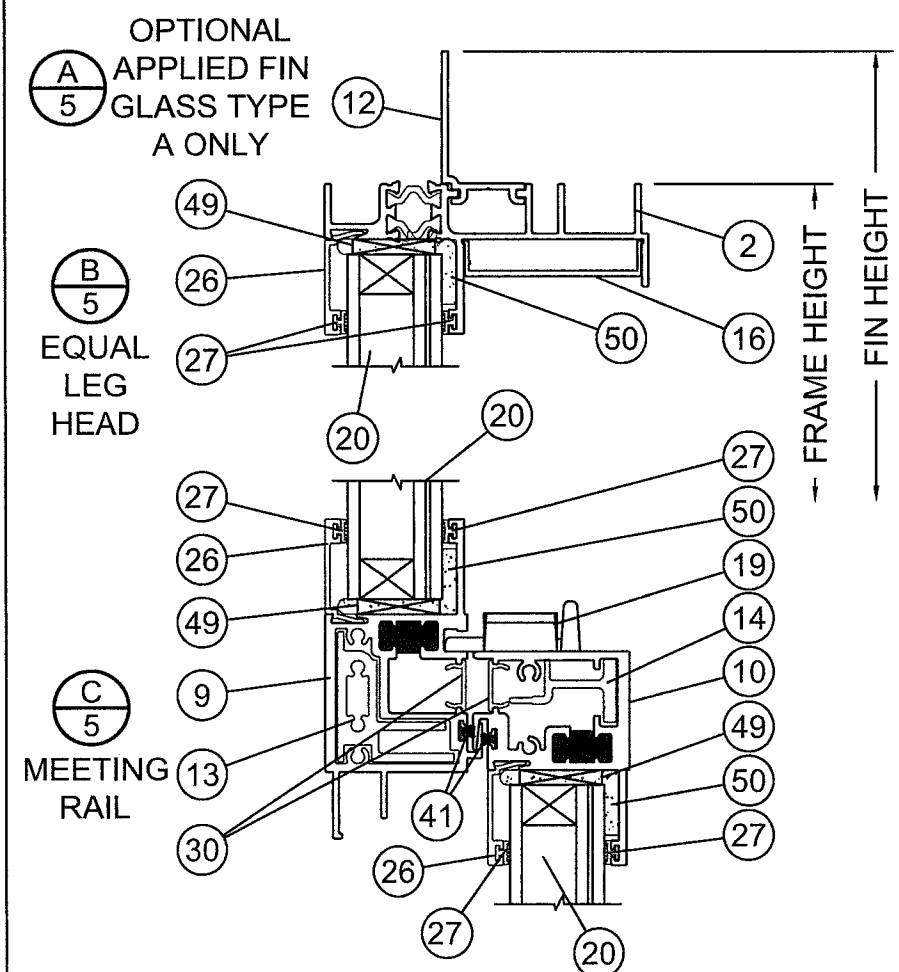
1. THE MAXIMUM ANCHOR SPACING SHOWN IN THE ORIEL ELEVATION ON SHEET 1 SHALL NOT BE EXCEEDED.
2. ANCHOR QUANTITIES IN UJ AND LJ LOCATIONS INCLUDE CORNER ANCHORS; EVENLY SPACE ANY ADDITIONAL ANCHORS REQUIRED BEYOND CORNER ANCHOR(S) BETWEEN CORNER AND MEETING RAIL ANCHORS.
3. REDUCE CORNER OR ON-CENTER SPACING AS REQUIRED TO ENSURE 3" MIN. SPACING IS MAINTAINED BETWEEN ANY TWO FASTENERS

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-0826.14**  
Expiration Date: **03/02/22**  
By: *Manuel Perez*  
Miami-Dade Product Control

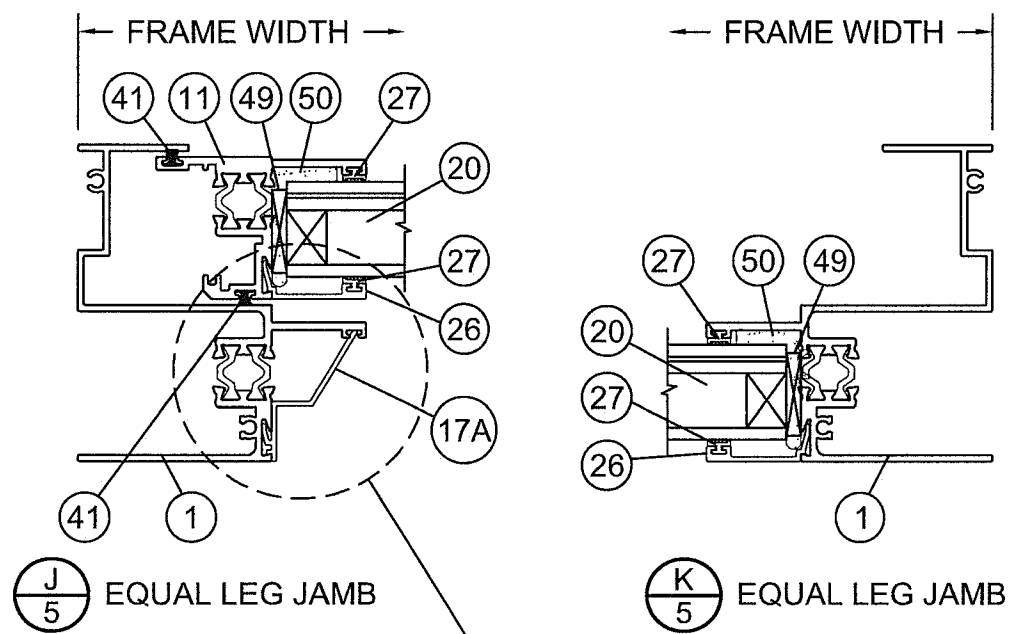
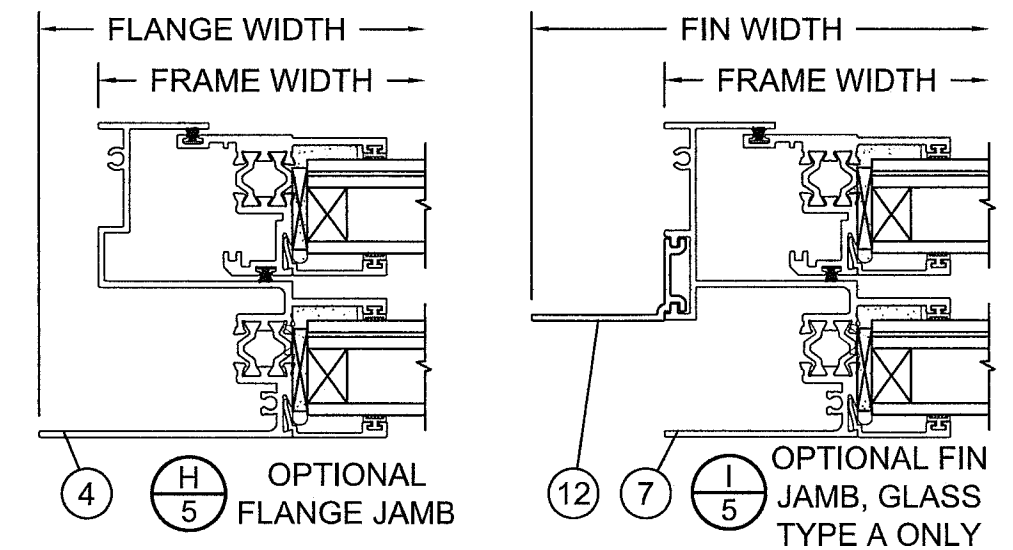
Revision: NO CHANGES THIS SHEET.

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. SINGLE HUNG (LM)	
Title		Date	08/10/20
Series		By	ERIN KOSS
Desc.		DP & ANCHORAGE CHARTS - ORIEL	
Sheet		9400-LMI-NOA	
SH9400T		Rev.	
4 OF 11			
DWG No.			





VERTICAL CROSS SECTION

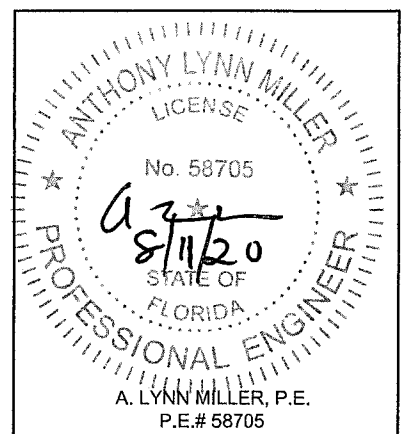


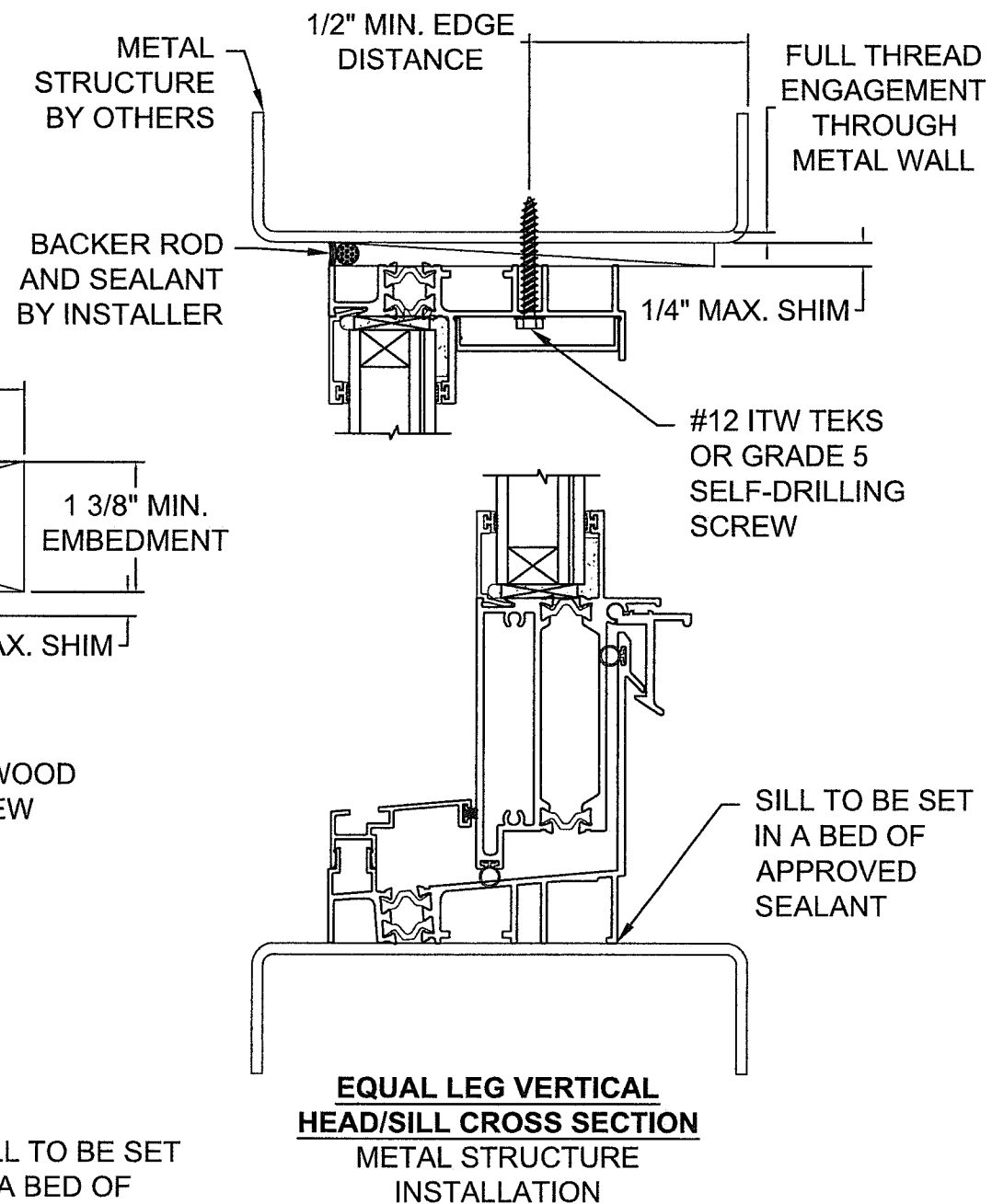
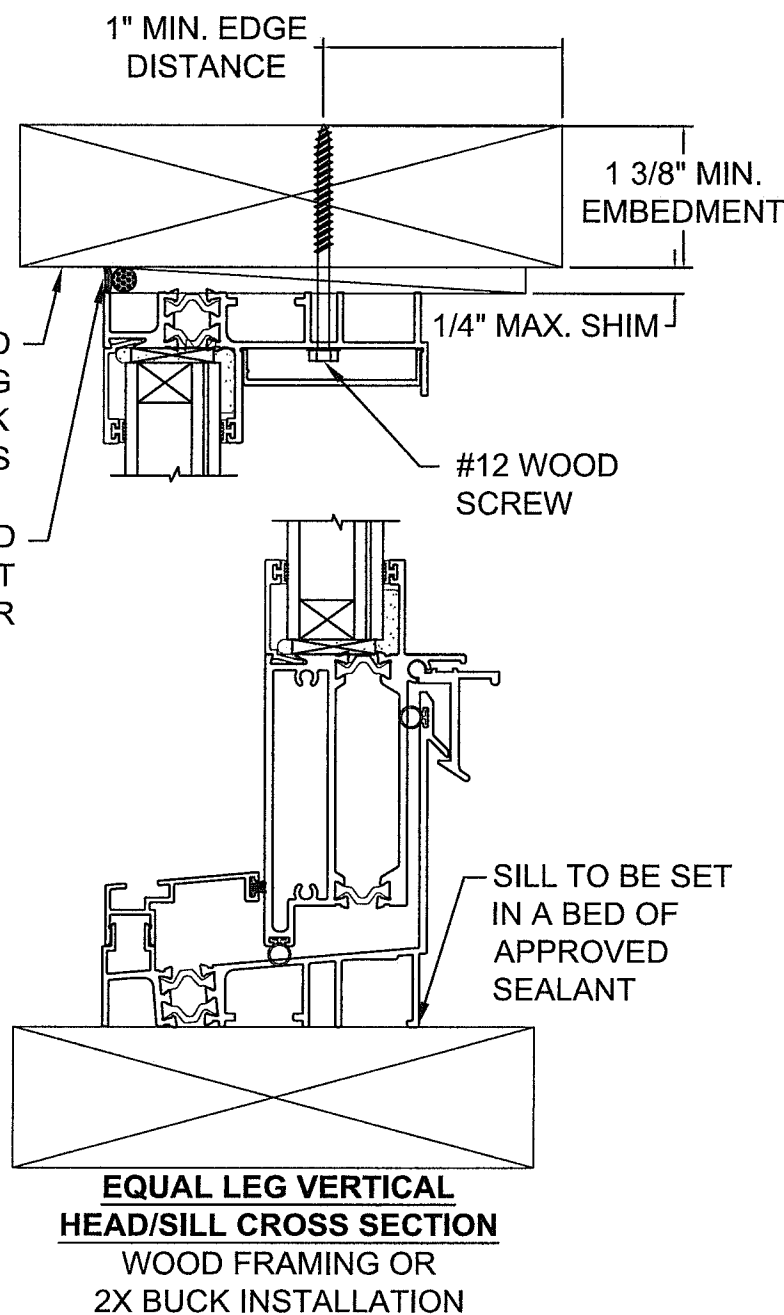
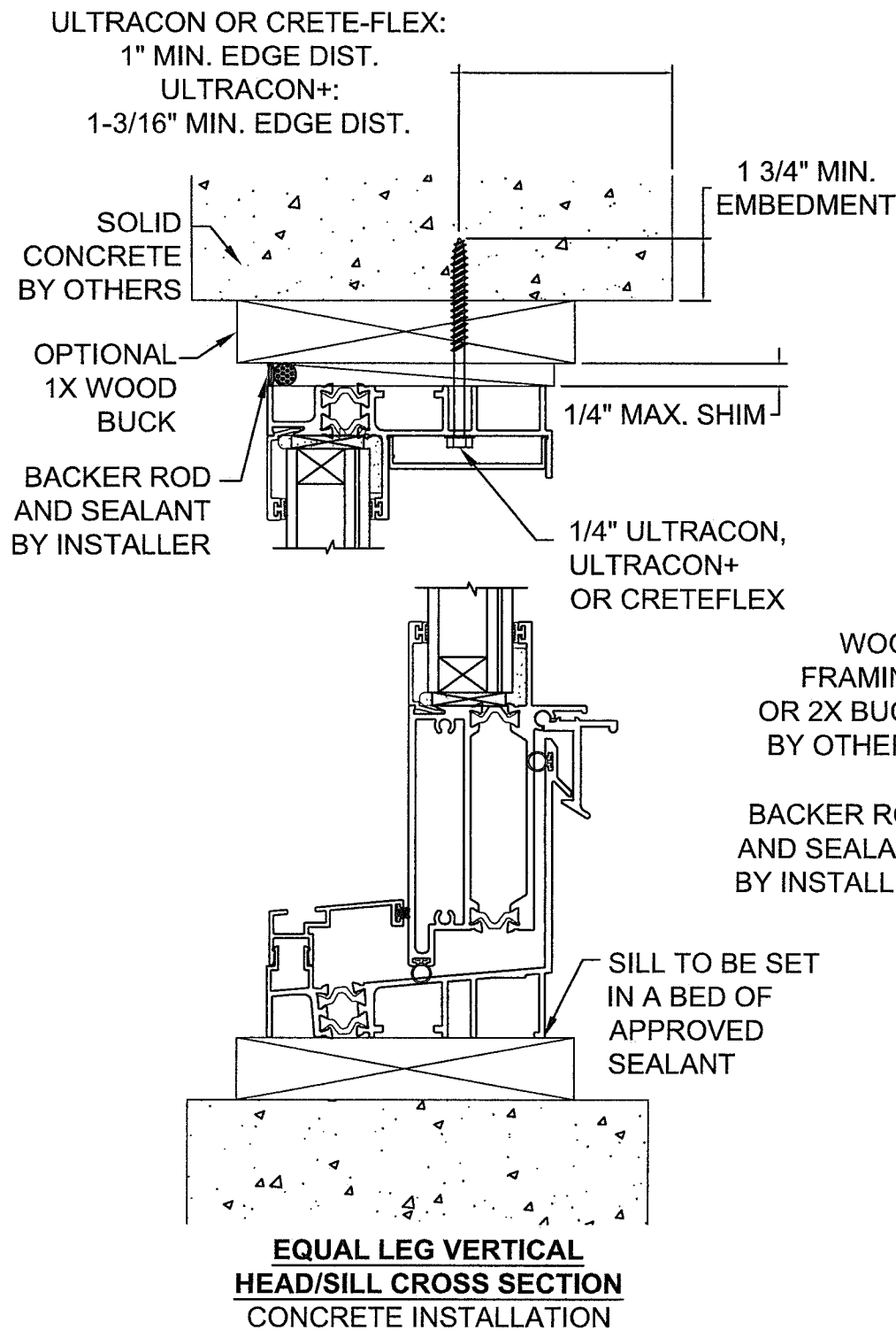
HORIZONTAL CROSS SECTION  
EXTERIOR

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-0826.14**  
Expiration Date: **03/02/22**  
By: *Manuel Perez*  
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET.

<b>WINDOOR®</b> 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		08/10/20 Date By ERIN KOSS Drawn No. 9400-LMI-NOA DWG 5 OF 11 Sheet SH9400T	
	THERMALLY BROKEN ALUM. SINGLE HUNG (LM)		SECTION VIEWS	
	58705 No.		58705 No.	
	A. LYNN MILLER, P.E. P.E.# 58705		A. LYNN MILLER, P.E. P.E.# 58705	





**GENERAL ANCHOR NOTES:**

1. INSTALL ONE ANCHOR AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEET 1.
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS.

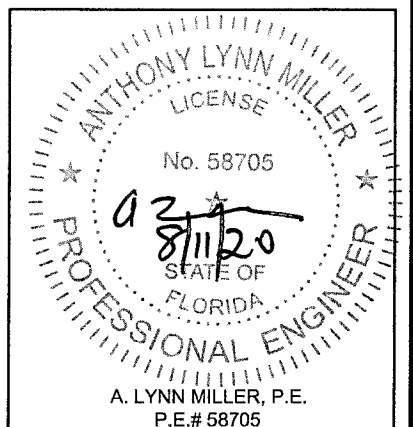
EXTERIOR



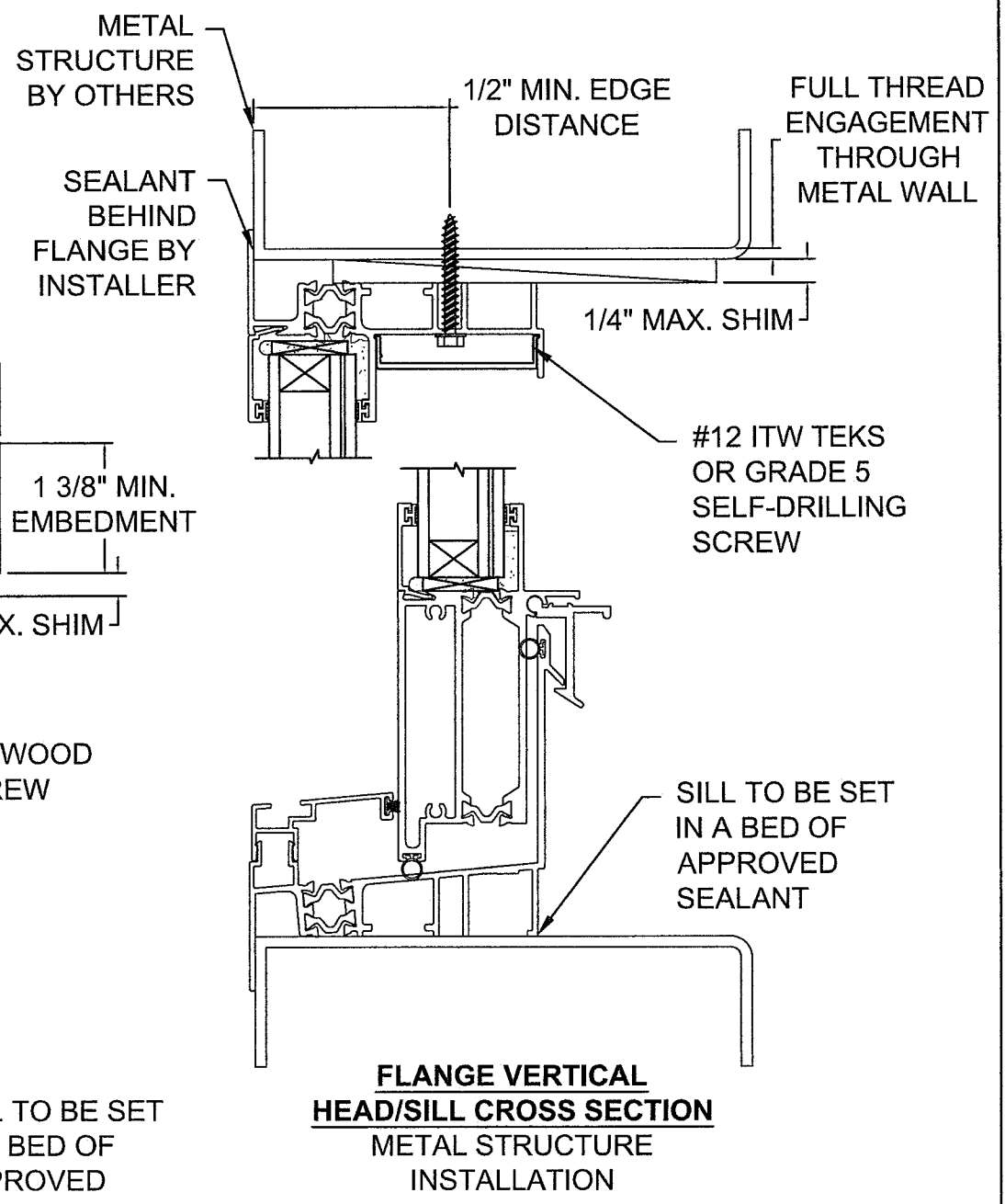
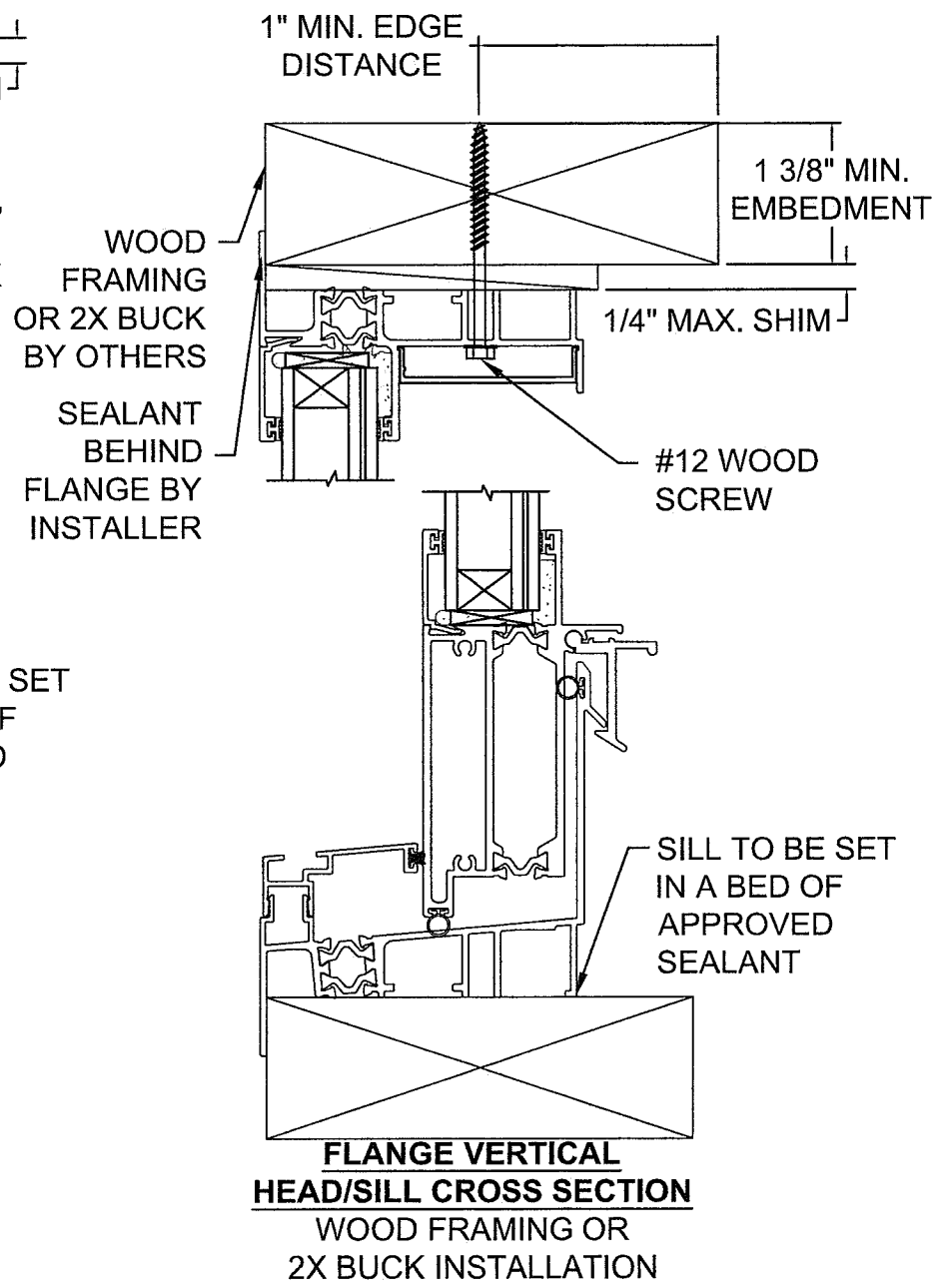
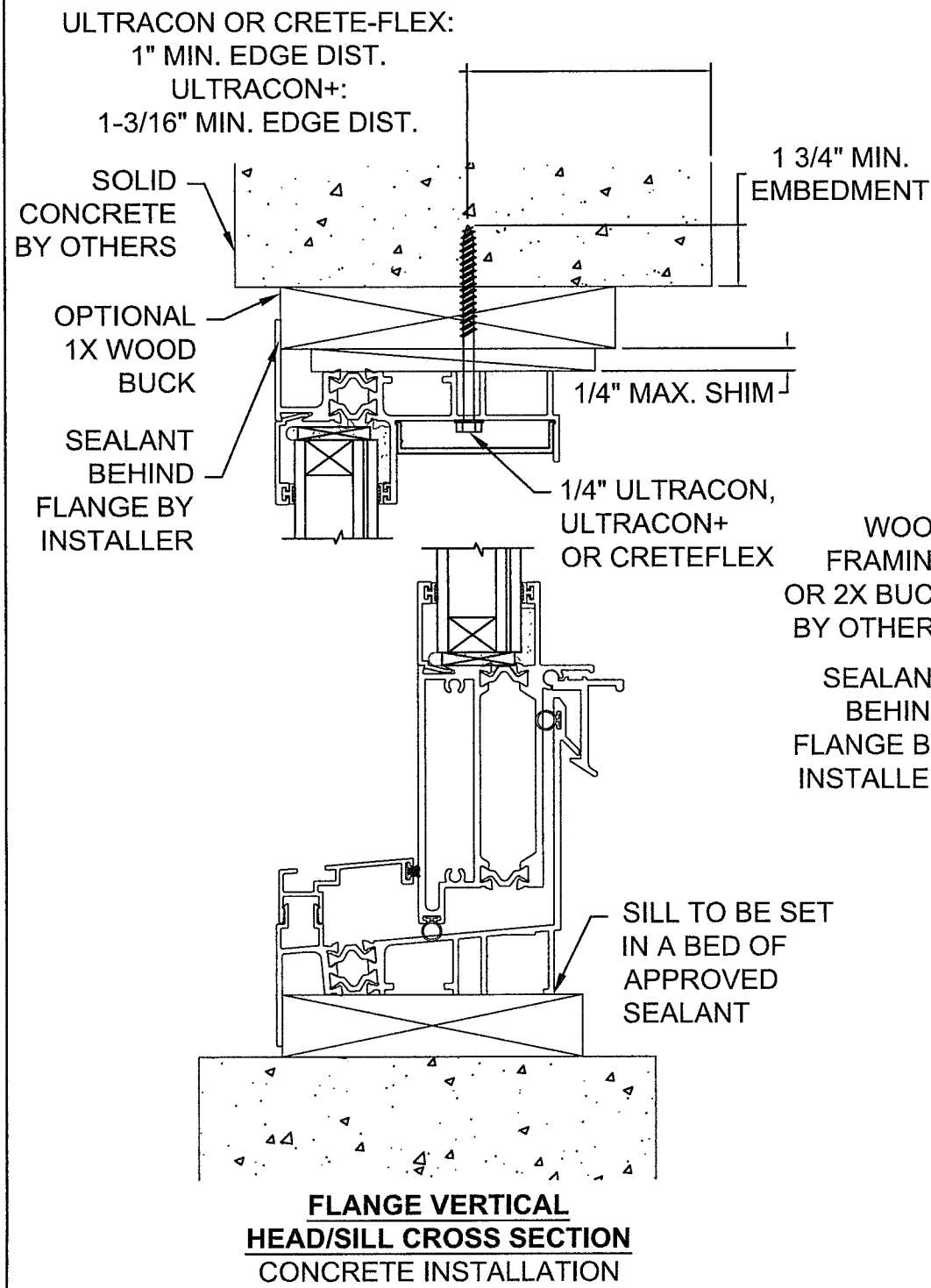
**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **20-0826.14**  
Expiration Date: **03/02/22**  
By: *Manuel Perez*  
Miami-Dade Product Control

Revision: ADDED 1/4" ELCO ULTRACON+

WINDOOR <sup>®</sup> 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. SINGLE HUNG (LM)	
Title		Date	
08/10/20			
INSTALLATION DETAILS - EQUAL LEG		ERIN KOSS	
Drawn By			
DWG No.		9400-LMI-NOA	
Rev.			
SH9400T		6 OF 11	
Sheet			
Series Desc.			







**GENERAL ANCHOR NOTES:**

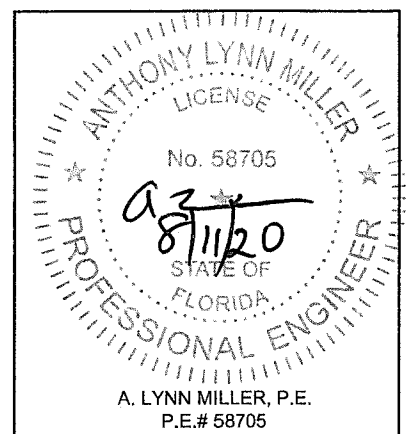
1. INSTALL ONE ANCHOR AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEET 1.
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS.

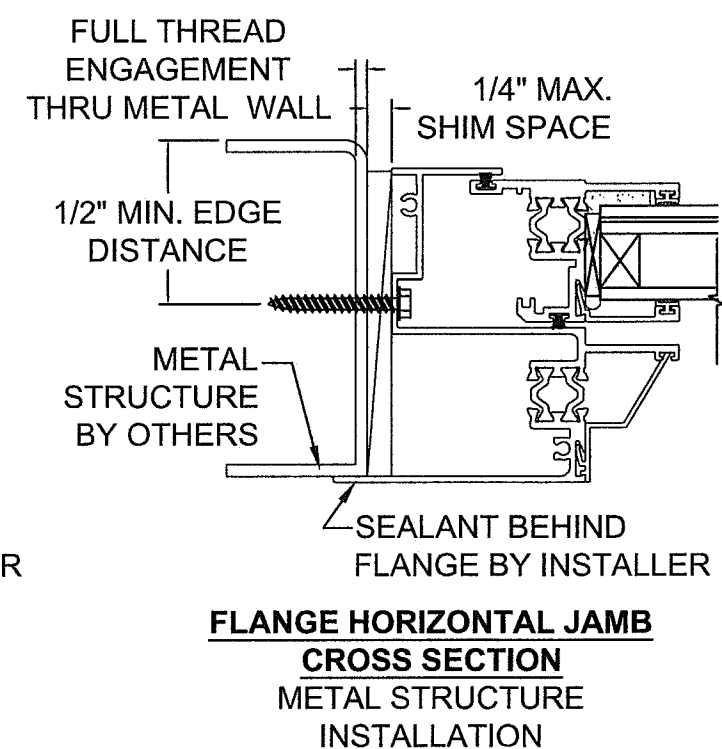
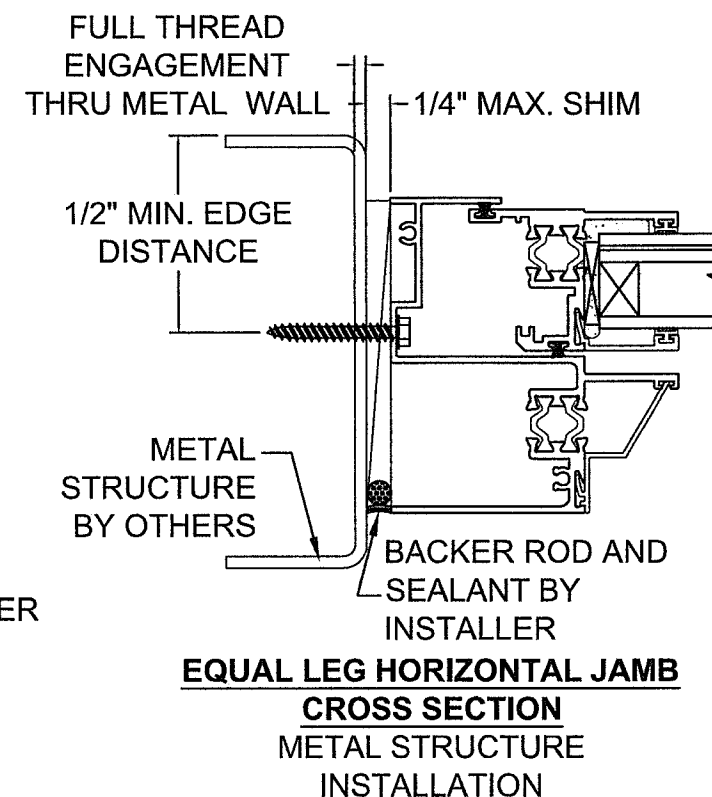
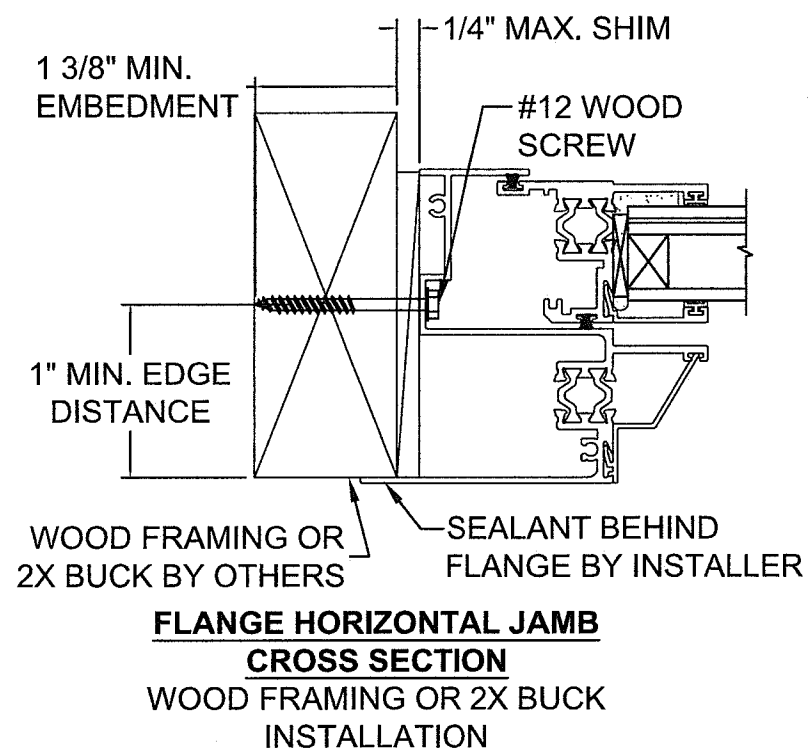
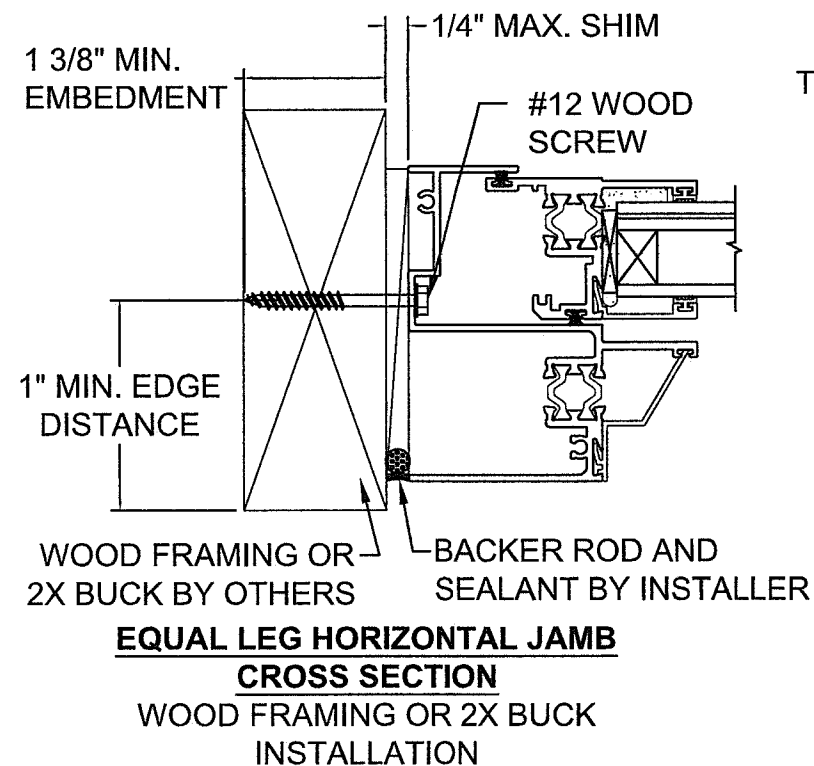
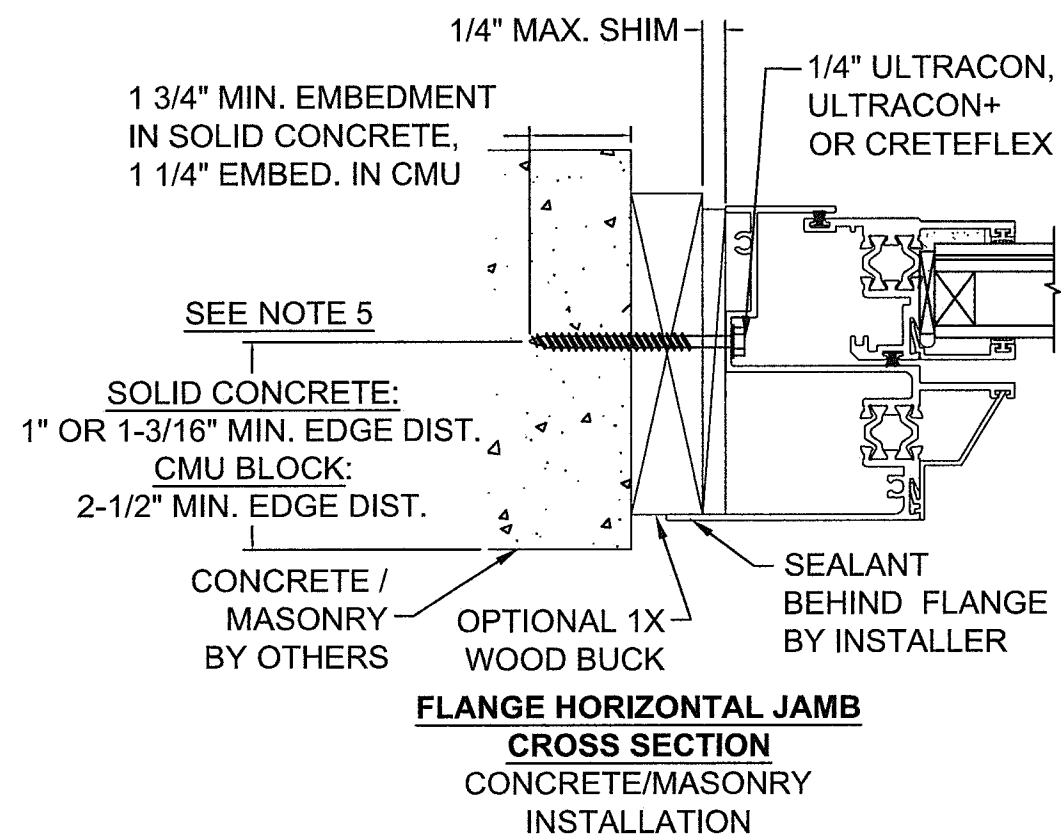
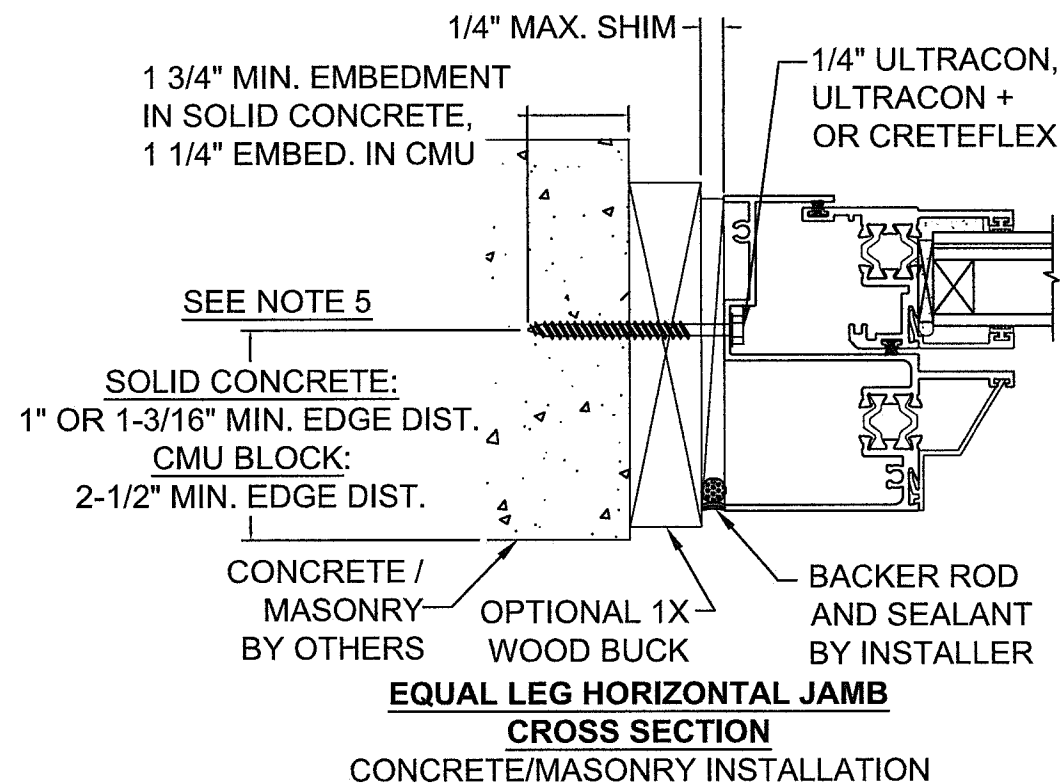
EXTERIOR  
←

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **20-0826.14**  
Expiration Date: **03/02/22**  
By: *Manuel Perez*  
Miami-Dade Product Control

Revision:  
ADDED 1/4" ELCO ULTRACON+

<b>WINDOOR®</b> 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 08/10/20	Rev. 
	THERMALLY BROKEN ALUM. SINGLE HUNG (LM)		Drawn By ERIN KOSS	9400-LMI-NOA
	INSTALLATION DETAILS - FLANGE		No. 7 OF 11	DWG
	SH9400T		Sheet	Series





**GENERAL ANCHOR NOTES:**

1. INSTALL ONE ANCHOR AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEET 1.
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS.
5. 1" MIN. EDGE DIST. FOR ULTRACON OR CRETE-FLEX INTO CONCRETE, 1-3/16" MIN. EDGE DIST. FOR ULTRACON+ INTO CONCRETE.

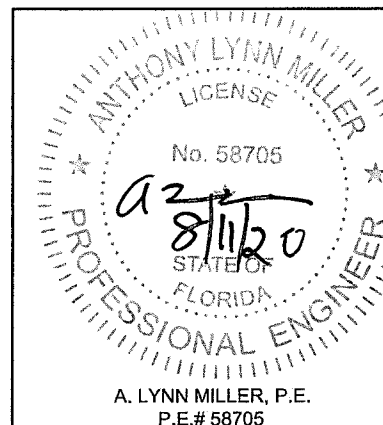
EXTERIOR

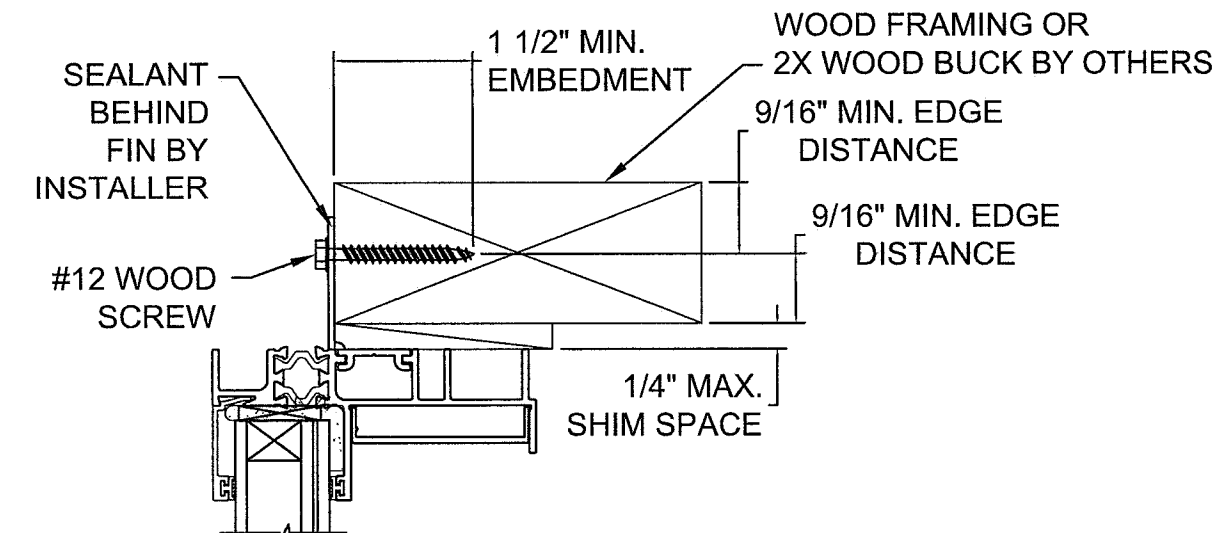


**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-0826.14**  
Expiration Date: **03/02/22**  
By: *Manuel Perez*  
Miami-Dade Product Control

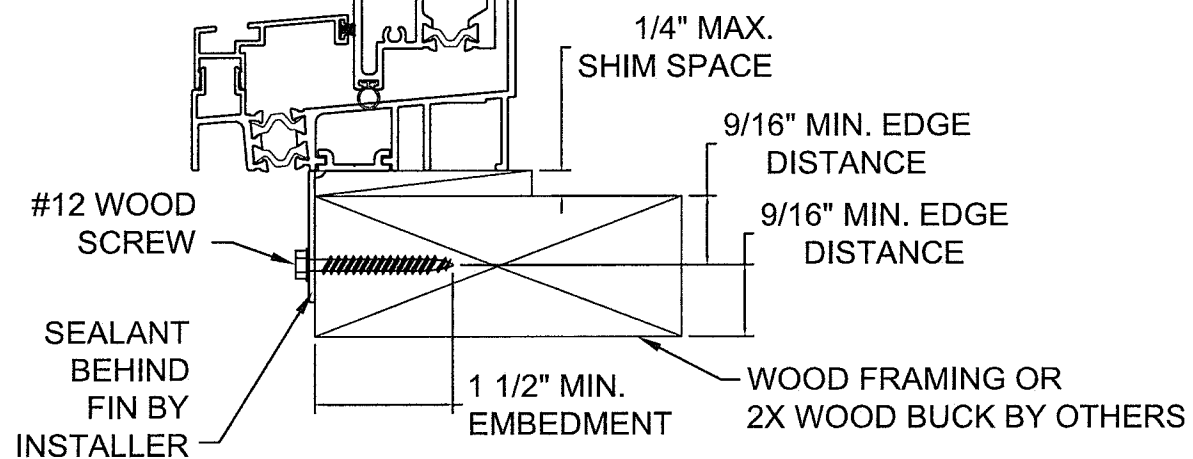
Revision: ADDED 1/4" ELCO ULTRACON+

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. SINGLE HUNG (LM)	
Title		Date	08/10/20
Installation Details - JAMBS		Drawn By	ERIN KOSS
SH9400T		9400-LMI-NOA	
8 OF 11		DWG No.	
Sheet		Rev.	





EXTERIOR



**FIN HORIZONTAL CROSS SECTION**  
WOOD FRAMING OR  
2X WOOD BUCK INSTALLATION

**FIN VERTICAL CROSS SECTION**  
WOOD FRAMING OR  
2X WOOD BUCK INSTALLATION

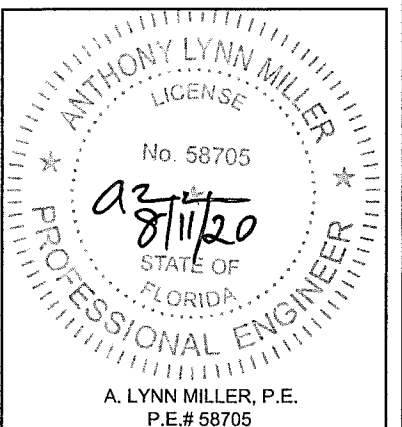
**GENERAL ANCHOR NOTES:**

1. FIN WINDOWS SHALL BE INSTALLED ONLY TO WOOD SUBSTRATES AS SHOWN ON THIS SHEET.
2. INSTALL ONE ANCHOR AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATION ON SHEET 2.
3. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
4. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
5. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS.

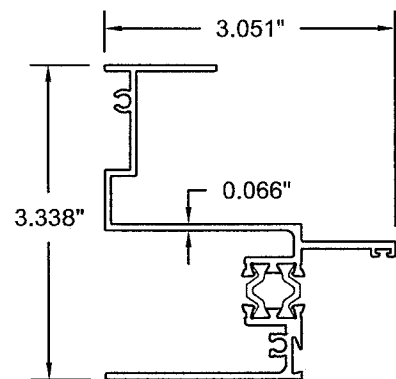
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By: *Manuel Perez*  
Miami-Dade Product Control

NO CHANGES THIS SHEET.

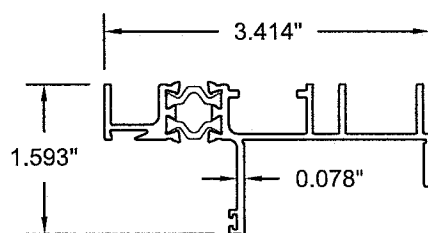
<b>WINDOOR®</b> INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		08/10/20	Rev.
	THERMALLY BROKEN ALUM. SINGLE HUNG (LM)		Date	ERIN KOSS
	INSTALLATION DETAILS - FIN		Drawn By	9400-LMI-NOA
	SH9400T		9 OF 11	DWG No.



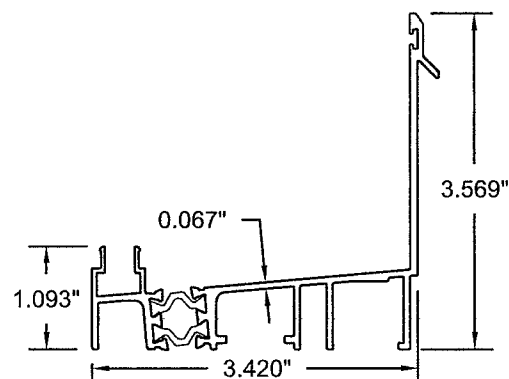




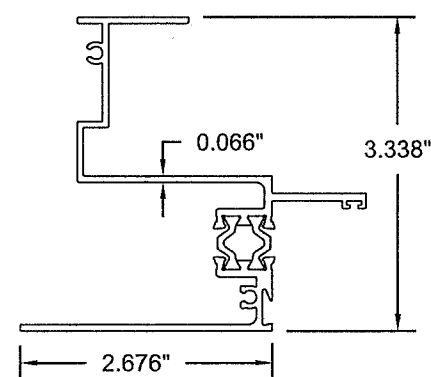
① FRAME JAMB EQUAL LEG  
1349X004



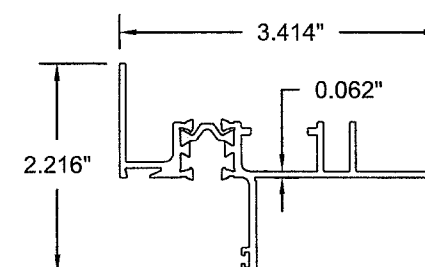
② FRAME HEAD EQUAL LEG  
1394X001



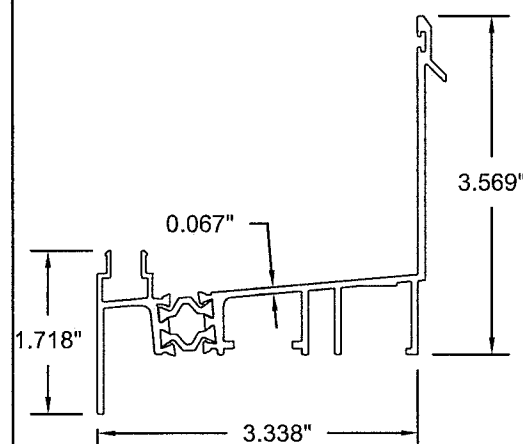
③ FRAME SILL EQUAL LEG  
13940001



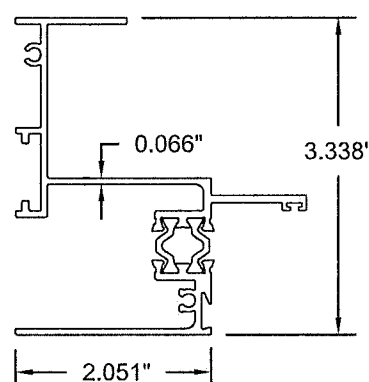
④ FRAME JAMB FLANGE  
1394X005



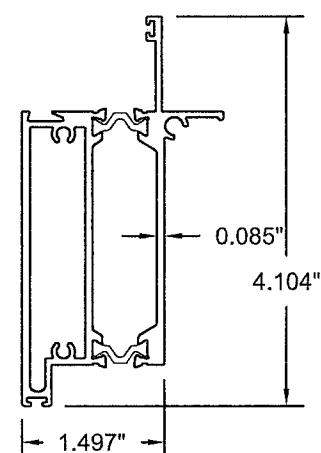
⑤ FRAME HEAD FLANGE  
1394X002



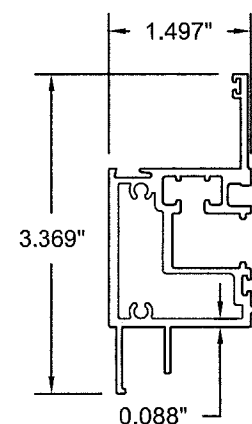
⑥ FRAME SILL FLANGE  
13940002



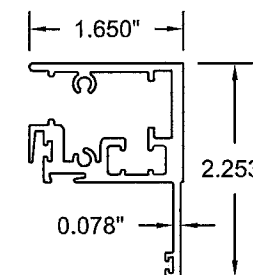
⑦ FRAME JAMB FIN  
1349X006



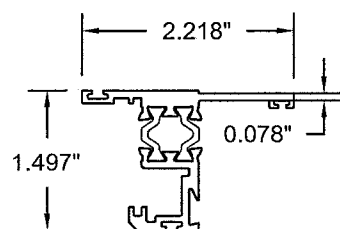
⑧ SASH BOTTOM RAIL  
13940004



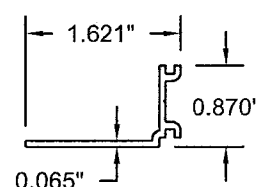
⑨ FIXED MEETING RAIL  
1394X007



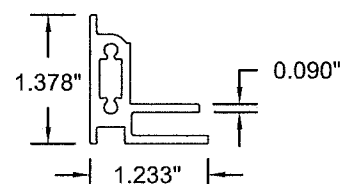
⑩ SASH MEETING RAIL  
1394X010



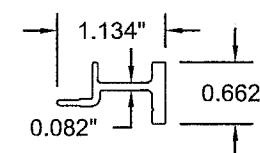
⑪ SASH STILE ASSEMBLY  
13940005



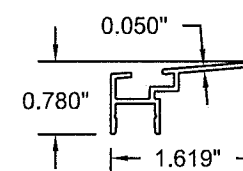
⑫ FIN ADAPTER  
S-49332



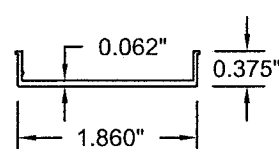
⑬ FIXED MTG. RAIL  
REINFORCEMENT  
1294X029



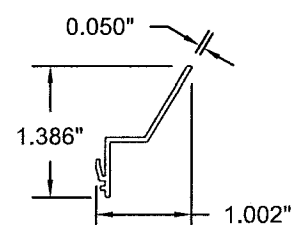
⑭ SASH TOP RAIL  
REINFORCEMENT  
1194X011



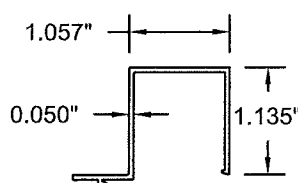
⑮ SILL SCREEN RETAINER  
1194X009



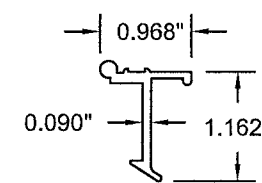
⑯ FRAME HEAD  
SCREW COVER  
1194X013



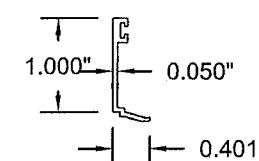
⑰A SCREEN ADAPTOR  
17010415



⑰B SCREEN ADAPTOR  
1194X014



⑱ SILL SNAP LOCK  
11007327

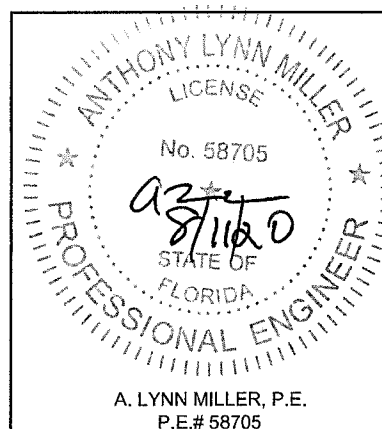


⑲ GLASS STOP  
1194X012

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Expiration Date: **03/02/22**  
By: *Manuel Perez*  
Miami-Dade Product Control

NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date		08/10/20	Rev.
	By		ERIN KOSS	
	DWC No.		9400-LMI-NOA	
	Sheet		10 OF 11	
<b>WinDoor®</b> INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	Title		THERMALLY BROKEN ALUM. SINGLE HUNG (LM)	Series
	Desc.		EXTRUSIONS	
	Model		SH9400T	
	Material		9400-LMI-NOA	

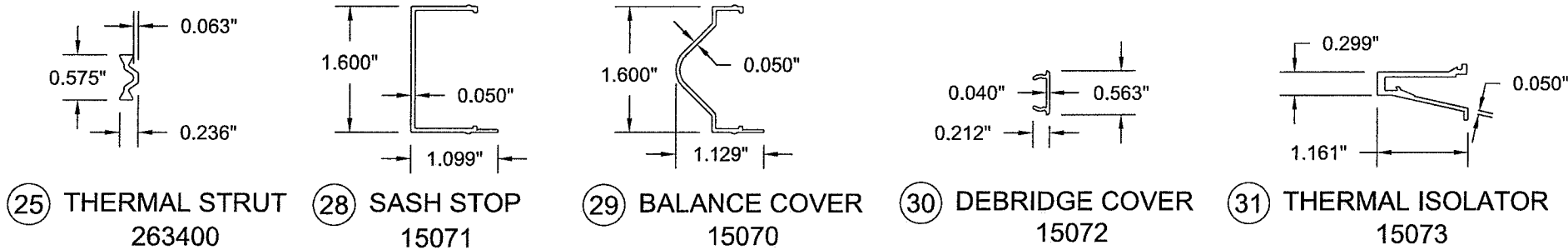


A. LYNN MILLER, P.E.  
P.E.# 58705

BILL OF MATERIALS			
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER (MAT.)
1	1349X004	FRAME JAMB EQUAL LEG	KEYMARK (ALUM. 6063-T6)
2	1394X001	FRAME HEAD EQUAL LEG	KEYMARK (ALUM. 6063-T6)
3	13940001	FRAME SILL EQUAL LEG	KEYMARK (ALUM. 6063-T6)
4	1394X005	FRAME JAMB FLANGE	KEYMARK (ALUM. 6063-T6)
5	1394X002	FRAME HEAD FLANGE	KEYMARK (ALUM. 6063-T6)
6	13940002	FRAME SILL FLANGE	KEYMARK (ALUM. 6063-T6)
7	1349X006	FRAME JAMB FIN	KEYMARK (ALUM. 6063-T6)
8	13940004	SASH BOTTOM RAIL	KEYMARK (ALUM. 6063-T6)
9	1394X007	FIXED MEETING RAIL	KEYMARK (ALUM. 6063-T6)
10	1394X010	SASH MEETING RAIL	KEYMARK (ALUM. 6063-T6)
11	13940005	SASH STILE ASSEMBLY	KEYMARK (ALUM. 6063-T6)
12	S-49332	FIN ADAPTER	KEYMARK (ALUM. 6063-T6)
13	1294X029	FIXED MTG. RAIL REINFORCEMENT	KEYMARK (ALUM. 6063-T6)
14	1194X011	SASH TOP RAIL REINFORCEMENT	KEYMARK (ALUM. 6063-T6)
15	1194X009	SILL SCREEN RETAINER	KEYMARK (ALUM. 6063-T6)
16	1194X013	FRAME HEAD SCREW COVER	KEYMARK (ALUM. 6063-T6)
17A	17010415	VERTICAL SCREEN ADAPTER	Team Plastics (VINYL)
17B	1194X014	SCREEN ADAPTER	KEYMARK (ALUM. 6063-T6)
18	11007327	SILL SNAP LOCK (OPTIONAL)	KEYMARK (ALUM. 6063-T6)
19	H4000-XX-SL202	SASH LOCK	
20		1" INSULATED GLASS - SEE SHEET 2	
21	15075	SASH GUIDE LEFT	
22	15074	SASH GUIDE RIGHT	
23	WA2L	WEEP GATE	PREFERRED ENGINEERING
24	15176	FOAM PAD - SILL AT JAMBS	
25	263400	9/16" THERMAL STRUT INSULBAR	ENSINGER (TECATHERM 66 GF)
26	1194X012	GLASS STOP	KEYMARK (ALUM. 6063-T6)
27	121005	GLAZING VINYL #5	TEAM PLASTICS (VINYL)
28	15071	SASH STOP	TEAM PLASTICS (VINYL)
29	15070	BALANCE COVER	TEAM PLASTICS (VINYL)
30	15072	DEBRIDGE COVER	TEAM PLASTICS (VINYL)

BILL OF MATERIALS			
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER (MAT.)
31	15073	THERMAL ISOLATOR	TEAM PLASTICS (VINYL)
32		ULTRA LIFT SPIRAL BALANCE	CALDWELL
33	218237	BALANCE CARRIER	CALDWELL
34	11940006	ECO BALANCE SASH BRACKET	SELJAN
35	S4000-XX-150	SCREEN FRAME	KEYMARK (ALUM. 6063-T6)
36	S4000-BL-SC	SCREEN CORNERS	
37	S4000-SS-027	SCREEN WIRE LIFT	
38	900187	SCREEN TENSION SPRING	
39	SBVXX-BL-0600Z	SCREEN MESH	
40	S0010-BL-2200R	SCREEN SPLINE	
41	121998	0.187" W X 0.200" H FIN WEATHERSTRIP	ULTRAFAB
42	W4000-BL-20218	0.187" W X 0.300" H PROLON WEATHERSTRIP	ULTRAFAB
43	W4070-BL-W2	CLOSED CELL FOAM PAD	FRANK LOWE
44	122023	0.810" W X 0.700" L X 0.240" H WOOLPILE PAD	ULTRAFAB
45	131096	#6 X 3/4" FLAT HEAD TYPE A PAINTED SASH LOCK SCREWS	
46	131014	#8 X 1" PAN HEAD SQUARE DRIVE LEAD POINT CORNER ASSEMBLY SCREWS	
47	131085	#8 X 1" FLAT HEAD BALANCE SCREWS TYPE A	
48		#12 PAN HEAD INSTALLATION SCREWS	
49	121104	GLASS SHIM DUROMETER 85	FRANK LOWE (2RB-89-0250-024-032)
50		SIKA 552, DOW 791, DOW 983	SIKA / DOW (POLYURETHANE/SILICONE)
51	TP990	SPACER SYSTEM (SEE NOTE BELOW)	HELIMA (ALUMINUM AW-3000)

NOTE: SPACER MATERIAL TENSILE ULTIMATE STRENGTH FTU= 17KSI  
TENSILE YIELD STRENGTH FTY= 12KSI



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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

**WINDOOR®**  
INCORPORATED  
WINDOOR INCORPORATED  
104 TRIPLE DIAMOND BLVD.  
NORTH VENICE, FL 34275  
(833) 554-5432

08/10/20  
Date  
By ERIN KOSS  
No. 9400-LMI-NOA  
DWC  
11 OF 11  
Sheet  
SH9400T

THERMALLY BROKEN ALUM. SINGLE HUNG (LM)  
BOM & EXTRUSIONS  
SH9400T

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
8/11/20  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705