



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

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 "9470 Thermally Broken" Aluminum Horizontal Rolling Window - S.M.I.

APPROVAL DOCUMENT: Drawing No. **9470-SMI-NOA**, titled "Thermally Broken Alum. Horiz. Roller (SM)" sheets 1 through 12 of 12, dated 08/12/20, 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: 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.

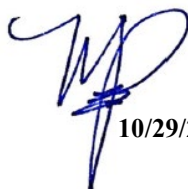
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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. 18-0116.24** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

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




10/29/20

NOA No. 20-0826.17
Expiration Date: March 09, 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. 16-0802.09)
2. Drawing No. **9470-NOA-SM**, titled "Series 9470 Thermally Broken Small Missile Impact Horizontal Roller Window" sheets 1 through 12 of 12, dated 02/24/17, with revision A dated 12/29/17, prepared by Turner Consulting and Engineering, Inc., signed and sealed by Lucas A. Turner, P.E.
(Submitted under NOA No. 18-0116.24)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of 6 specimens, each consisting of a three-panel XOX configuration of an aluminum horizontal sliding window, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NTCL-210-3985-05**, dated 08/25/15, signed and sealed by Gerald J. Ferrara, P.E.
(Submitted under NOA No. 16-0802.09)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202--94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of 6 specimens, each consisting of a three-panel XOX configuration of an aluminum horizontal sliding window, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NTCL-210-3985-04**, dated 08/25/15, signed and sealed by Gerard J. Ferrera, P.E.
(Submitted under NOA No. 16-0802.09)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-0826.17
Expiration Date: March 09, 2022
Approval Date: November 05, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

B. TESTS (CONTINUED)

3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) 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 4 specimens, each consisting of a three-panel XOX configuration of an aluminum horizontal sliding window, and 2 specimens, each consisting of a two-panel OX configuration of an aluminum horizontal sliding window, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NTCL-210-3985-02**, dated 08/25/15, signed and sealed by Gerard J. Ferrera, P.E.

(Submitted under NOA No. 16-0802.09)

4. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of one two-panel OX configuration of an aluminum horizontal sliding window, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NTCL-210-3985-06**, dated 12/20/16, signed and sealed by Gerard J. Ferrera, P.E.


(Submitted under NOA No. 16-0802.09)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 07/30/16 and revised on 02/03/17, prepared by Turner Engineering & Consulting, Inc., signed and sealed by Lucas A. Turner, P.E.
(Submitted under NOA No. 18-0116.24)
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

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


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-0826.17
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

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 01/18/18, expiring on 07/04/23.
2. 0.500" (Length) by 0.26" (Height) by 0.0059" (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.
3. 0.375" (Length) by 0.26" (Height) by 0.0059" (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.
4. 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 ¾"/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/ft² (0.35 W/m²) by 143°F (62°C) on 13-3/8" (340 mm) & **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 5th Edition (2014)**, with **FBC 6th Edition (2017)** and of no financial interest, dated December 29, 2017, issued by Turner Engineering & Consulting, Inc., signed and sealed by Lucas A. Turner, P.E.
(Submitted under NOA No. 18-0116.24)
2. Laboratory compliance letter for Test Reports No. **NCTL-210-3985-01**, **NCTL-210-3985-05**, **NCTL-210-3985-04** and **NCTL-210-3985-02** all dated 08/25/15, and **NCTL-210-3985-06** dated 12/12/16, issued by National Certified Testing Laboratories, Inc., all signed and sealed by Gerard J. Ferrara, P.E.
(Submitted under NOA No. 16-0802.09)

G. OTHERS

1. Notice of Acceptance No. **16-0802.09**, issued to WinDoor, Inc. for their Series "9470" Thermally Broken Horizontal Rolling Window - S.M.I. approved on 03/09/17 and expiring on 03/09/22.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-0826.17
Expiration Date: March 09, 2022
Approval Date: November 05, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **9470-SMI-NOA**, titled "Thermally Broken Alum. Horiz. Roller (SM)", sheets 1 through 12 of 12, dated 08/12/20, 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:

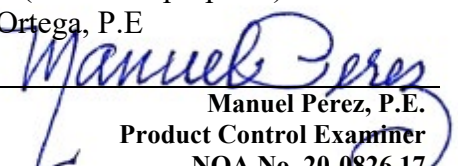
FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14
FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal)
FTL-20-2107.2, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal)
FTL-20-2107.3, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and
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. 20-0826.17
Expiration Date: March 09, 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 5th Edition (2014)**, dated 07/30/16 and revised on 02/03/17, prepared by Turner Engineering & Consulting, Inc., signed and sealed by Lucas A. Turner, P.E., updated to comply with **FBC 7th Edition (2020)**, on 08/12/20 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.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and **FBC 7th Edition (2020)**, dated August 12, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated August 12, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Notification of Successor Engineer for WinDoor NOA documents dated August 12, 2020 issued, signed and sealed by Anthony Lynn Miller, P.E.
4. Proposal No. **19-1155 TP** issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.

G. OTHERS

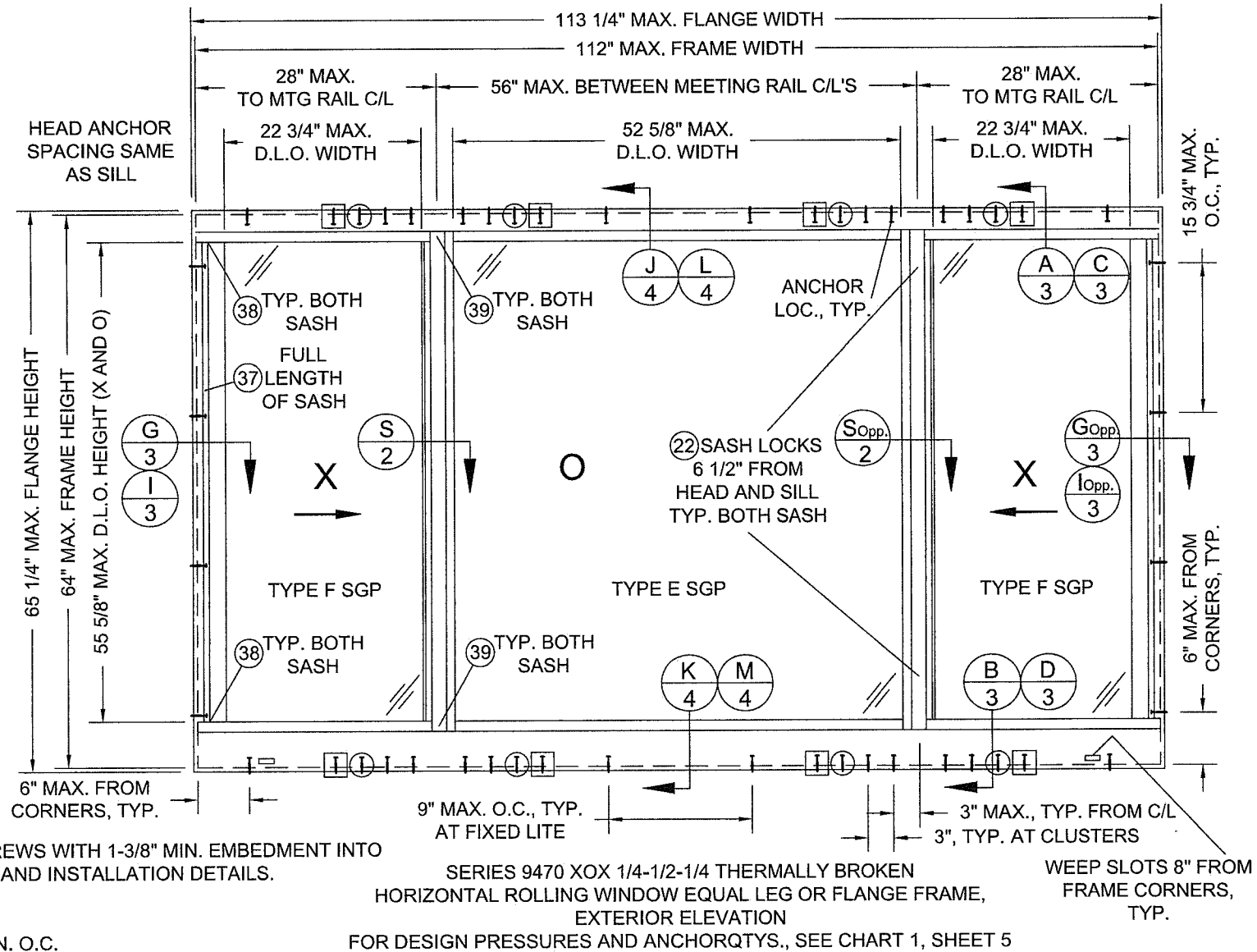
1. Notice of Acceptance No. **18-0116.24**, issued to WinDoor, Inc. for their Series “9470 Thermally Broken” Aluminum Horizontal Rolling Window - S.M.I., approved on 05/03/18 and expiring on 03/09/22.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-0826.17
Expiration Date: March 09, 2022
Approval Date: November 05, 2020

GENERAL NOTES

1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS SMALL MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS WHEN INSTALLED ABOVE 30 FEET FROM GRADE.
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 5 THROUGH 7) 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/MASONRY WITH WOOD BUCKS LESS THAN 1-1/2" THICK, ANCHOR EMBEDMENT SHALL BE INTO CONCRETE/MASONRY. WHEN INSTALLING INTO WOOD BUCKS 1-1/2" OR THICKER OVER CONCRETE/MASONRY, 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" MIN. EMBEDMENT INTO SUBSTRATE AND 1" MIN. EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO SOLID CONCRETE, USE:
 - A. 1/4" ELCO ULTRACONS: 1-3/4" MIN. EMBEDMENT, 1" MIN. EDGE DISTANCE, 3" MIN. O.C.
 - B. 1/4" DEWALT ULTRACON+: 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 ULTRACON, DEWALT ULTRACON+ OR ELCO CRETE-FLEX: 1-1/4" MIN. EMBEDMENT, 2-1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.
 - C. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. MASONRY SHALL NOT BE CRACKED.
13. FOR ANCHORING INTO 0.060" MINIMUM 33KSI YIELD STRENGTH (45KSI MIN. ULT. TENSILE STRENGTH) STEEL, USE #12 ITW TEKS 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 33KSI YIELD STRENGTH (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 - 2,846 KSI MIN. COMPRESSIVE STRENGTH WHEN USING ELCO ULTRACON FASTENERS, OR 3,350 KSI MIN. COMPRESSIVE STRENGTH WHEN USING ELCO CRETEFLEX OR DEWALT ULTRACON+ FASTENERS.
 - C. MASONRY/CMU - STRENGTH CONFORMANCE TO ASTM C-90 WITH NORMAL COMPRESSIVE STRENGTH OF 2 KSI MIN.
 - D. STEEL - 33 KSI MIN. YIELD STRENGTH (45KSI MIN. ULTIMATE TENSILE STRENGTH)
 - E. ALUMINUM - 6063-T5 MIN.

SERIES 9470 THERMALLY BROKEN HORIZONTAL ROLLER WINDOW SMALL MISSILE IMPACT



NOTE:
FOR MEETING RAIL CLUSTERS, ANCHORS WITH CIRCLE ○ ONLY REQ'D FOR QUANTITIES OF 6 AND 8 'MR' ANCHORS, AND ANCHORS WITH SQUARE □ ONLY REQ'D FOR QUANTITY OF 8 'MR' ANCHORS, SEE SHEET 5 FOR 'MR' ANCHOR QUANTITIES

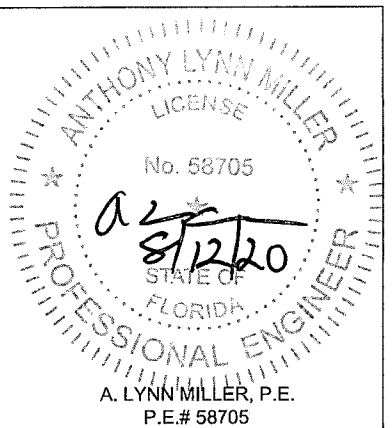
TABLE OF CONTENTS:

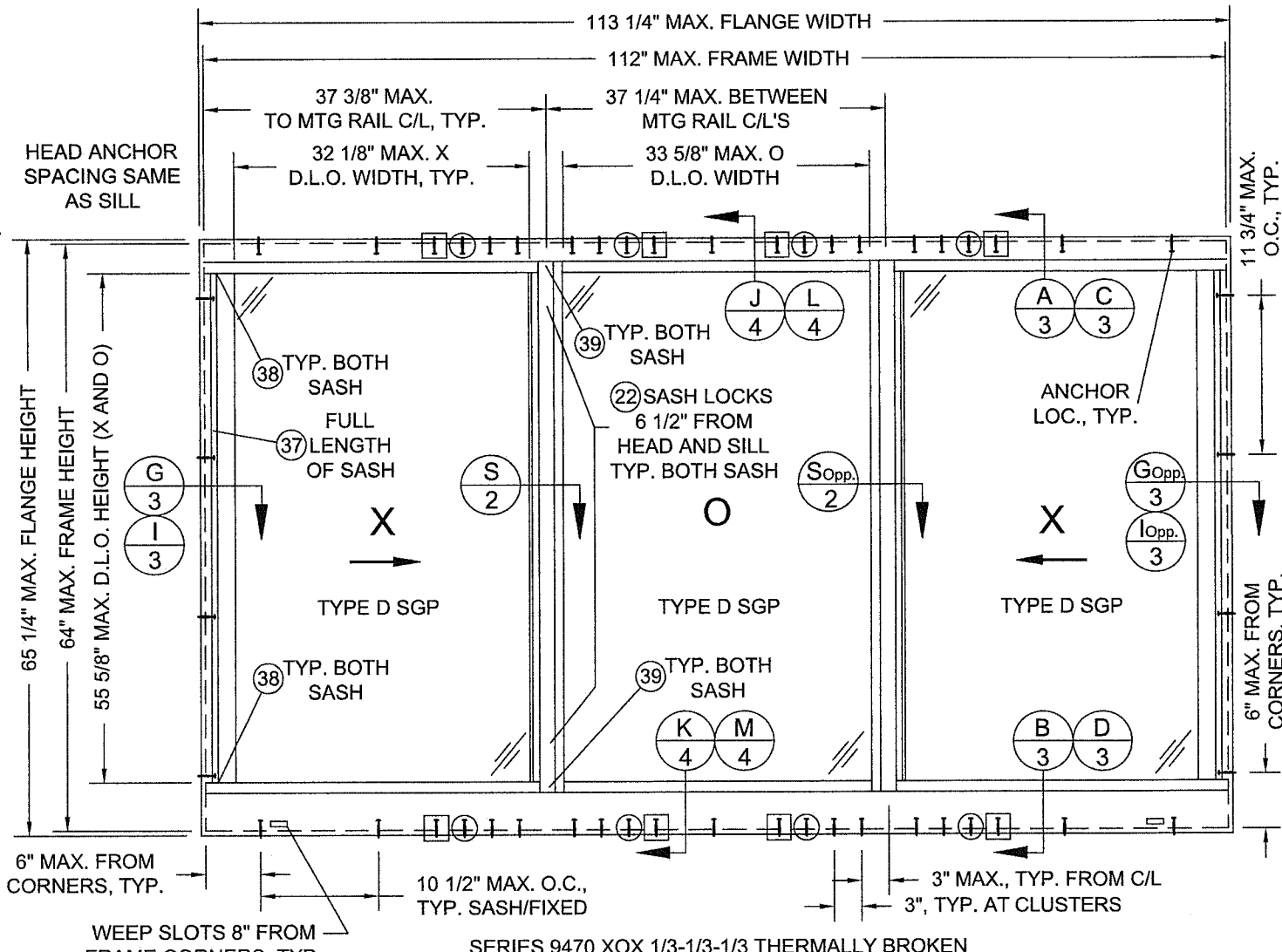
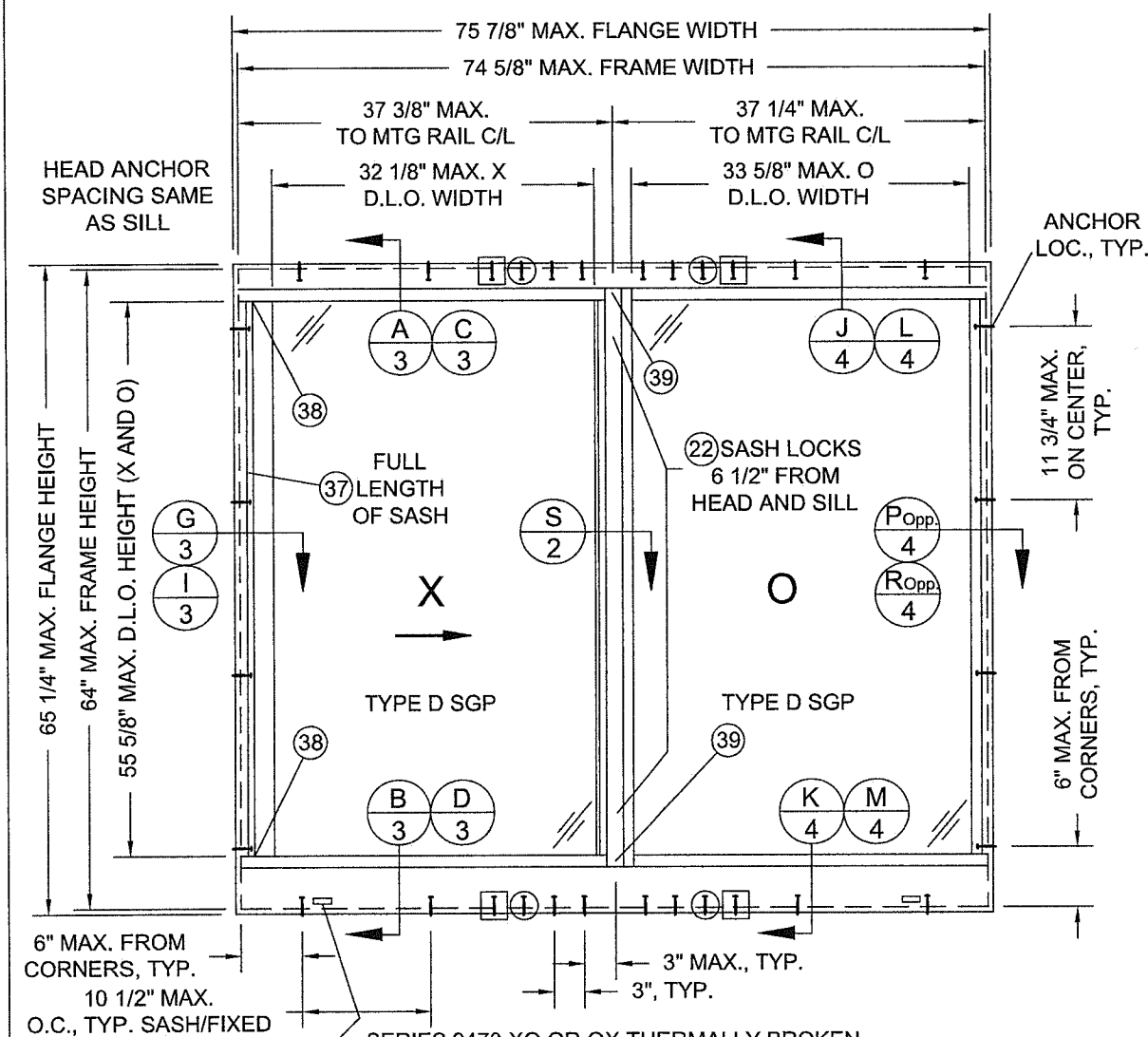
1. NOTES, ELEVATION
2. ELEVATIONS, MTG RAIL SECTION, GLAZING
3. X SECTION DETAILS
4. O SECTION DETAILS
- 5-7. DP AND ANCHOR QTY CHARTS
8. EQUAL LEG HEAD/SILL INSTALL DETAILS
9. FLANGE HEAD/SILL INSTALL DETAILS
10. JAMB INSTALL DETAILS
11. EXTRUSION PROFILE DRAWINGS
12. BILL OF MATERIALS, PROFILE DWGS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0826.17**
Expiration Date: **03/09/22**
By: *Manuel Perez*
Miami-Dade Product Control

UPDATES FOR 2020 FBC. UPDATED
MANUFACTURING ADDRESS.

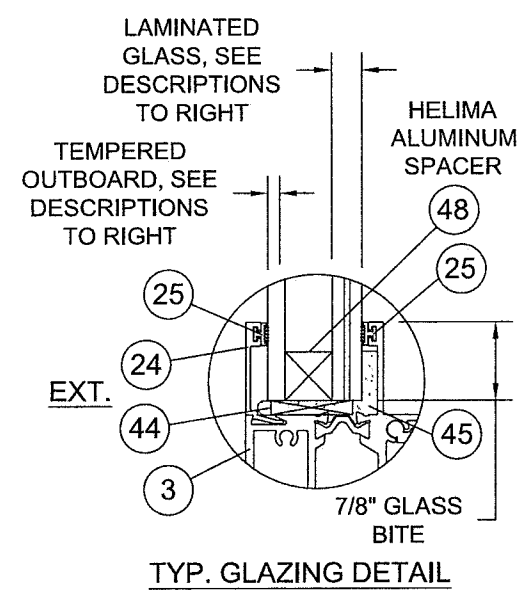
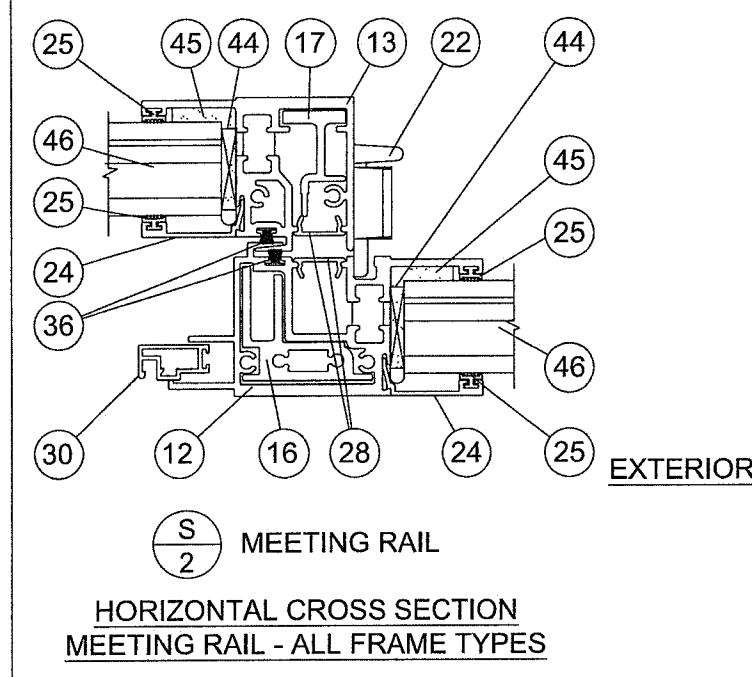
<div>WINDOOR® INCORPORATED</div> <div>WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432</div>		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	
THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM)		Date	08/12/20
ELEVATION - XOx4 FLANGE & EQUAL LEG		By Drawn	ERIN KOSS
Series Desc. Title		Sheet	DWG No.
HR9470T		1 OF 12	9470-SMI-NOA
			Rev.





6\"/>

WEEP SLOTS 8\"/>



TYP. GLAZING DETAIL

IN GLAZING DESCRIPTIONS :
 'SGP' IS SENTRYGLAS® (CLEAR AND WHITE) GLASS INTERLAYERS BY KURARAY AMERICA, INC., AND
 'SPACER' IS HELIMA ALUMINUM SPACER, B.O.M. ITEM #48

TYPE D
 1" INSULATED LAMINATED GLASS:
 3/16" TEMPERED OUTBOARD +
 3/8" SPACER + 7/16" LAMINATED
 (3/16" ANNEALED-0.035" SGP-3/16" ANNEALED)

TYPE E
 1" INSULATED LAMINATED GLASS:
 3/16" TEMPERED OUTBOARD +
 1/2" SPACER + 5/16" LAMINATED
 (1/8" HEAT STRENGTHENED-0.035" SGP-1/8" HEAT STRENGTHENED)

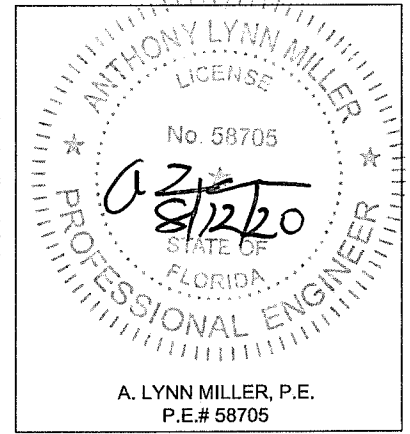
TYPE F
 1" INSULATED LAMINATED GLASS:
 3/16" TEMPERED OUTBOARD +
 1/2" SPACER + 5/16" LAMINATED
 (1/8" ANNEALED-0.035" SGP-1/8" ANNEALED)

NOTE:
 FOR MEETING RAIL CLUSTERS, ANCHORS WITH CIRCLE ○ ONLY REQ'D FOR QUANTITIES OF 6 AND 8 'MR' ANCHORS, AND ANCHORS WITH SQUARE □ ONLY REQ'D FOR QUANTITY OF 8 'MR' ANCHORS, SEE SHEETS 6 AND 7 FOR 'MR' ANCHOR QUANTITIES

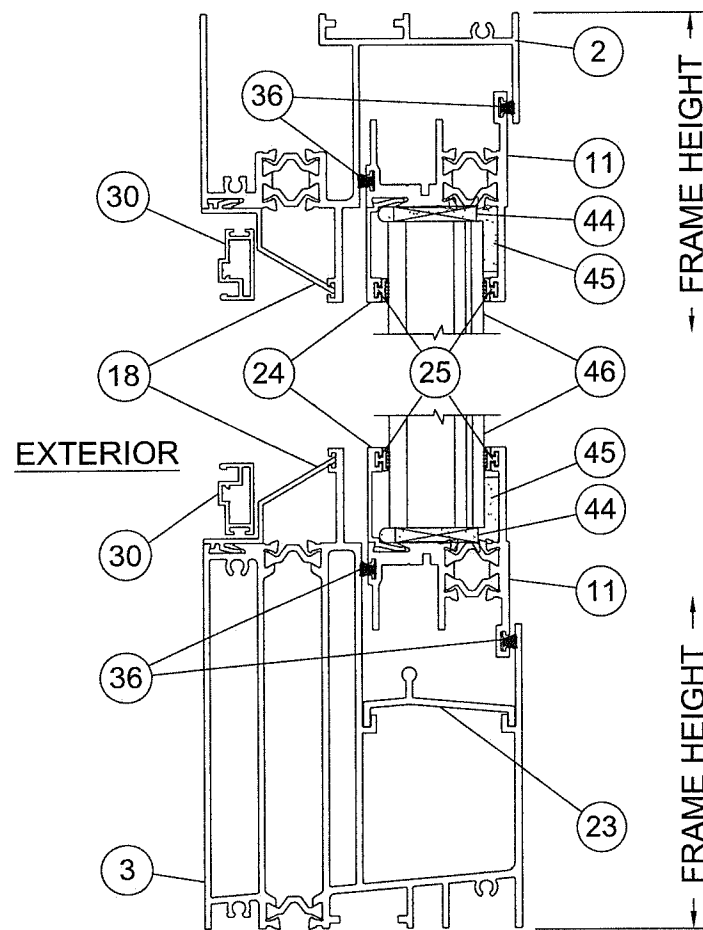
PRODUCT REVISED
 as complying with the Florida Building Code
NOA-No. 20-0826.17
Expiration Date: 03/09/22
 By: *Manuel Bern*
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET.

<div>WINDOOR®</div> <div>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			08/12/20	
		THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM)			Date	
		ELEVATIONS - XO/OX & XOX3 FLANGE & EQUAL LEG & GLAZING			Drawn By	
		HR9470T			9470-SMI-NOA	
Series	2 OF 12		DWG No.		Rev.	



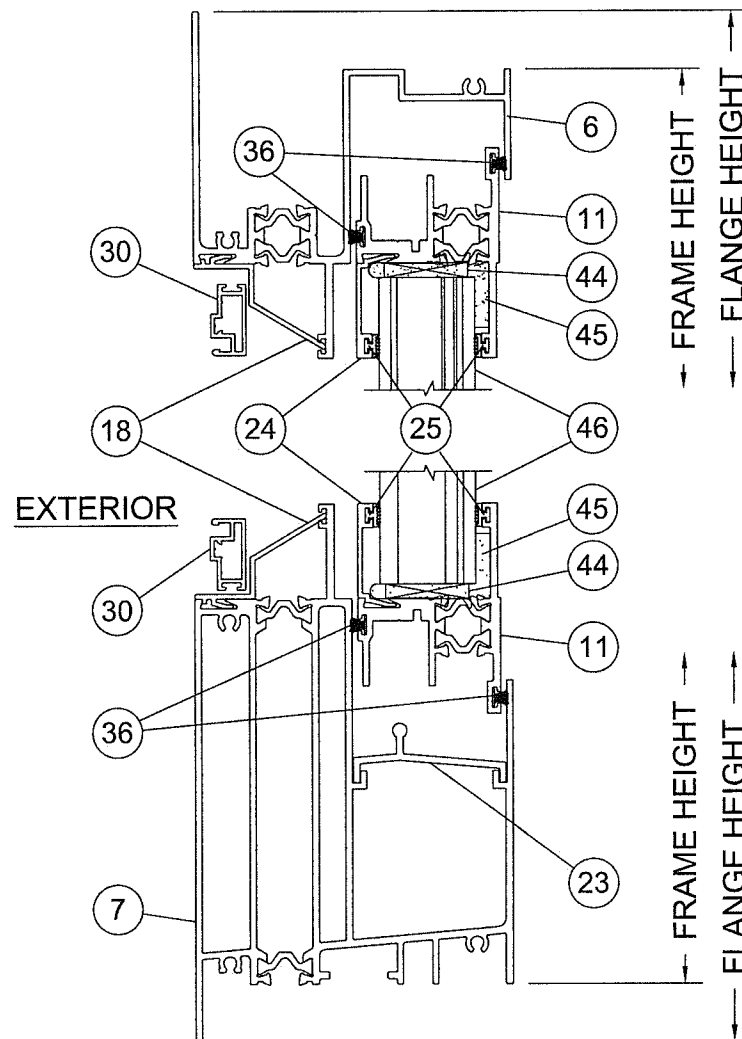
A
3 OPERABLE 'X'
EQUAL LEG HEAD



B
3 OPERABLE 'X'
EQUAL LEG SILL

VERTICAL CROSS SECTION
'X' EQUAL LEG FRAME

C
3 OPERABLE 'X'
FLANGE HEAD

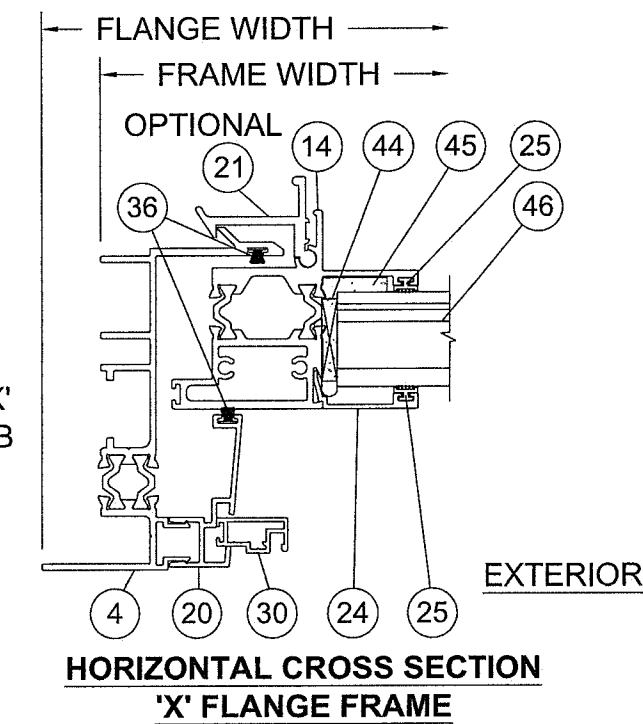
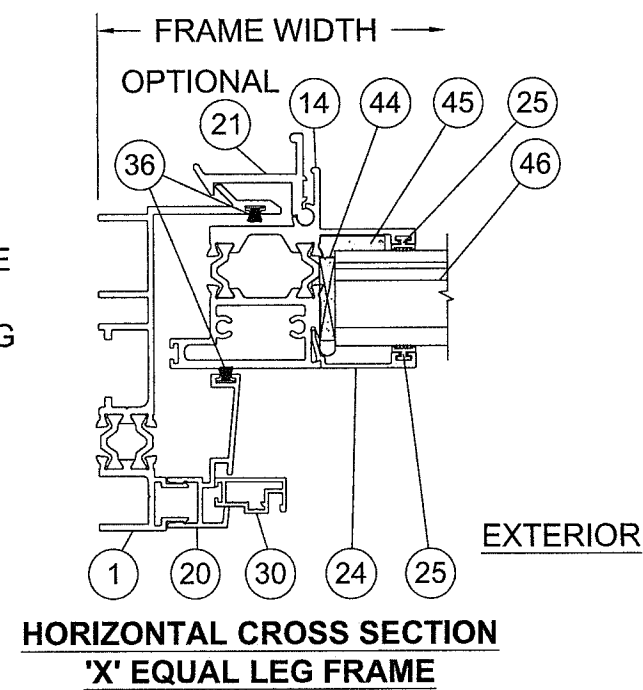


D
3 OPERABLE 'X'
FLANGE SILL

VERTICAL CROSS SECTION
'X' FLANGE FRAME

G
3 OPERABLE
'X'
EQUAL LEG
JAMB

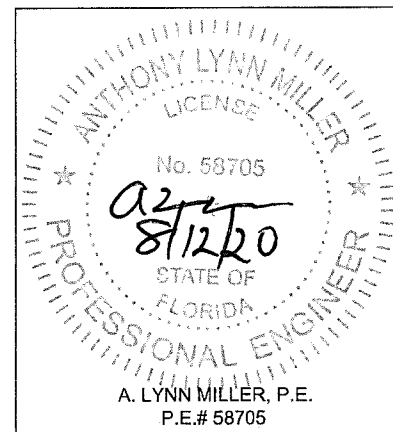
I
3 OPERABLE 'X'
FLANGE JAMB

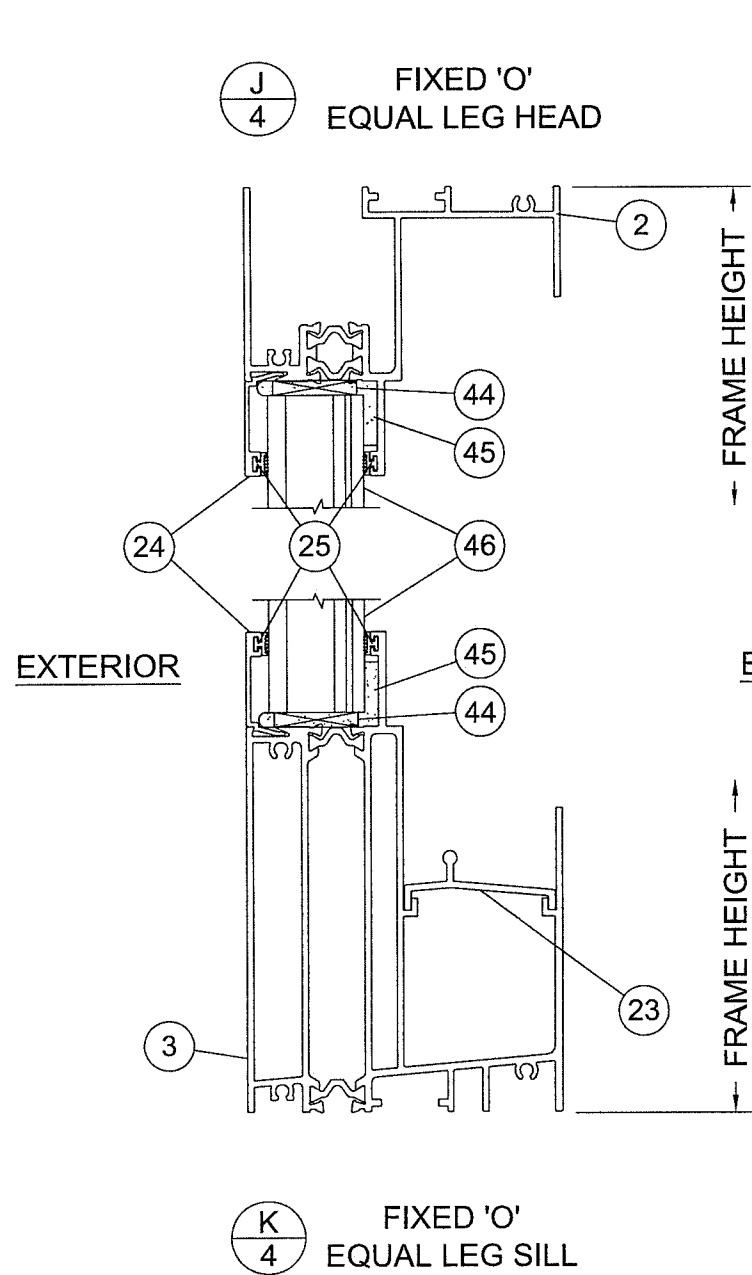


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0826.17**
Expiration Date: **03/09/22**
By: *Manuel Torres*
Miami-Dade Product Control

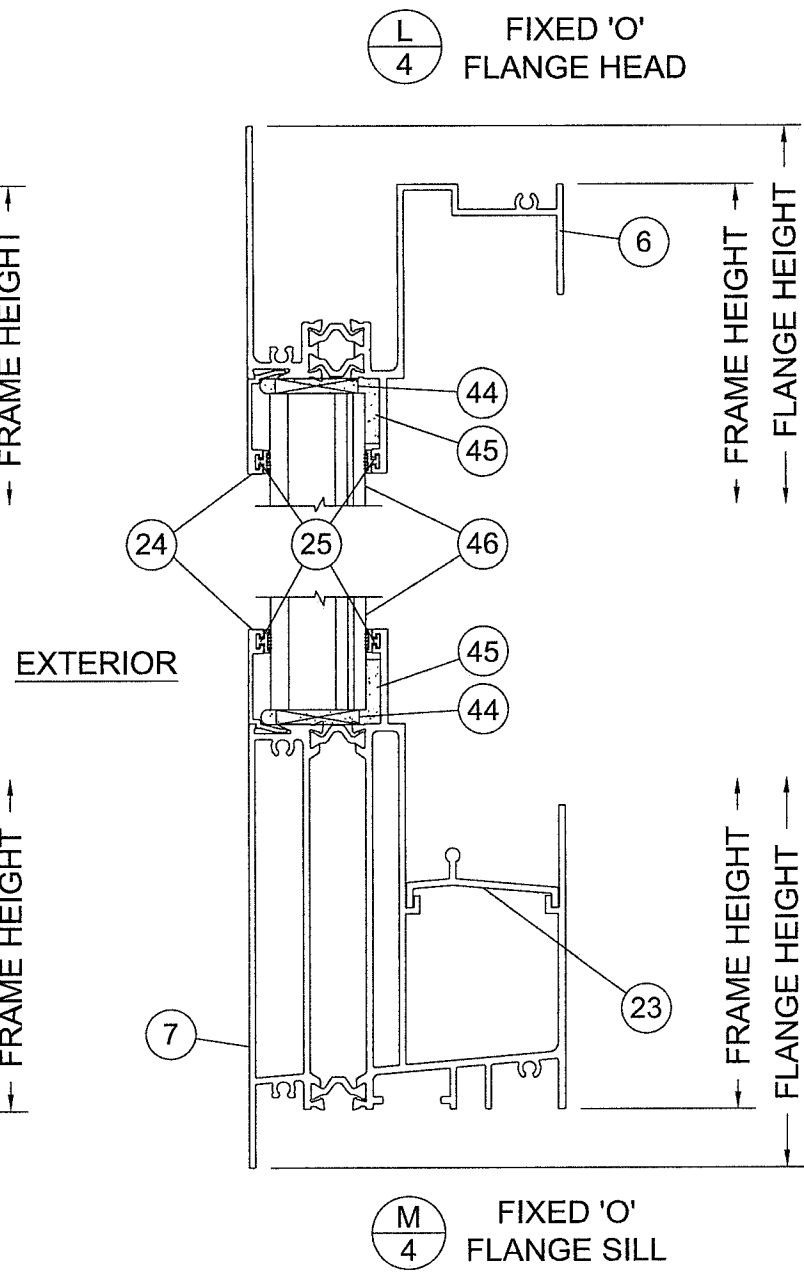
Revision: NO CHANGES THIS SHEET.

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. HORIZ. ROLLER (SM)		Date	08/12/20
SECTION VIEWS - OPERABLE (X)		Drawn By	ERIN KOSS
HR9470T	3 OF 12	DWG No.	9470-SMI-NOA
Sheet			Rev.
Series	Desc.	Title	

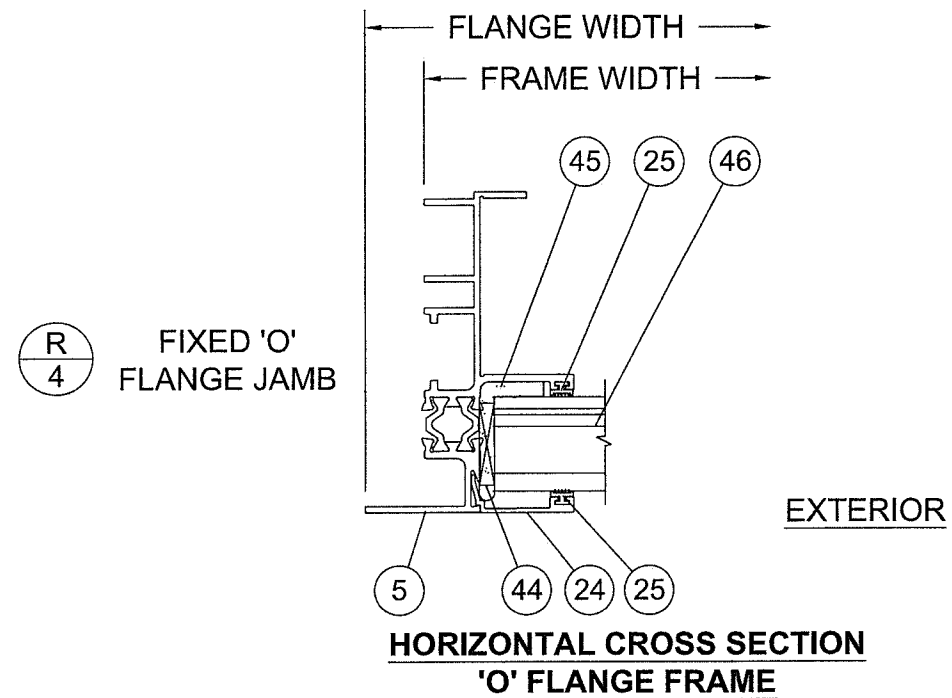
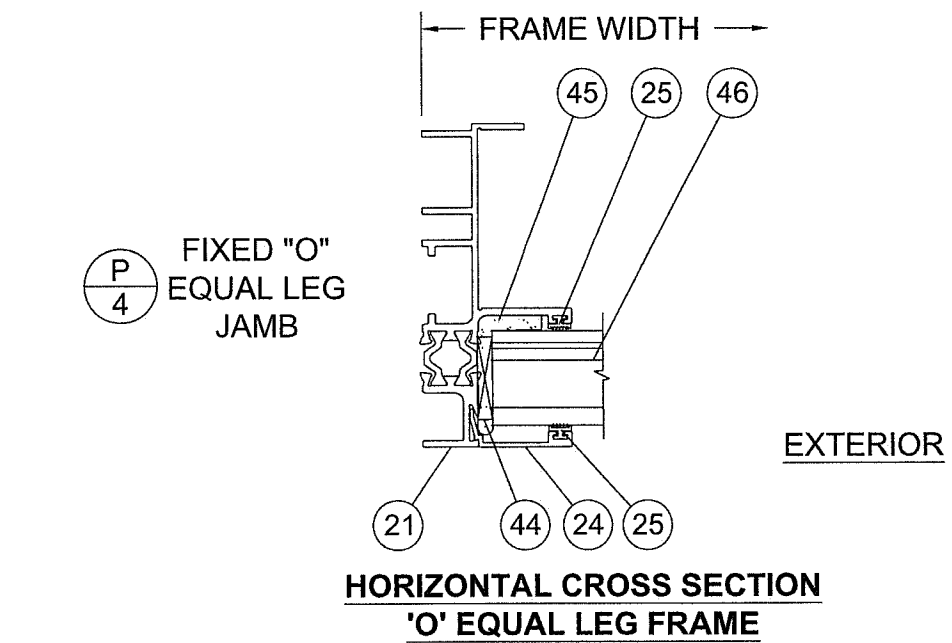




**VERTICAL CROSS SECTION
'O' EQUAL LEG FRAME**



**VERTICAL CROSS SECTION
'O' FLANGE FRAME**



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0826.17**
Expiration Date: **03/09/22**
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		Date		08/12/20	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432							
THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM)		ERIN KOSS					
SECTION VIEWS - FIXED (O)		Drawn By					
HR9470T		No.		DWG		9470-SMI-NOA	
4 OF 12		Sheet		Rev.			

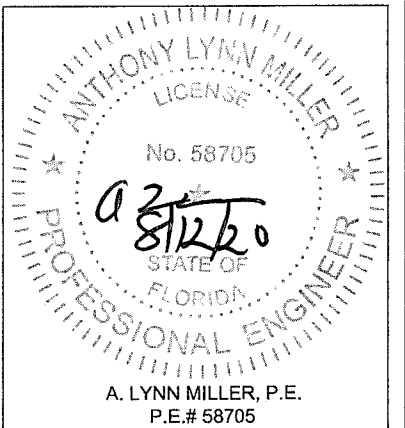


CHART 1. XOX 1/4-1/2-1/4 (FLANGE OR EQ. LEG) WITH SGP (GLASS TYPE E IN FIXED, GLASS TYPE F IN SASH) DESIGN PRESSURES (PSF)

FRAME HEIGHT (in.)	SUB- STRATE	FRAME WIDTH (in.)									
		60	66	72	78	84	90	96	102	108	112
24	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	+100.0/-160.0	+100.0/-160.0	+100.0/-147.0	+100.0/-137.8
	W	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-157.0	+100.0/-141.0	+100.0/-132.0
30	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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.2	+100.0/-135.0
	W	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-151.0	+100.0/-151.0	+100.0/-151.0	+100.0/-139.0	+100.0/-130.0
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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.2	+100.0/-135.0
	W	+100.0/-160.0	+100.0/-160.0	+100.0/-157.0	+100.0/-157.0	+100.0/-157.0	+100.0/-139.0	+100.0/-139.0	+100.0/-139.0	+100.0/-131.0	+100.0/-124.0
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	+100.0/-160.0	+100.0/-159.0	+100.0/-145.2	+100.0/-135.0
	W	+100.0/-153.0	+100.0/-145.0	+100.0/-139.0	+100.0/-135.0	+100.0/-132.0	+100.0/-129.0	+100.0/-127.0	+100.0/-125.0	+100.0/-122.0	+100.0/-115.0
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	+100.0/-160.0	+100.0/-159.0	+100.0/-145.2	+100.0/-135.0
	W	+100.0/-153.0	+100.0/-145.0	+100.0/-139.0	+100.0/-135.0	+100.0/-132.0	+100.0/-129.0	+100.0/-127.0	+100.0/-125.0	+100.0/-118.0	+100.0/-110.0
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	+100.0/-160.0	+100.0/-159.0	+100.0/-145.2	+100.0/-135.0
	W	+100.0/-153.0	+100.0/-145.0	+100.0/-139.0	+100.0/-135.0	+100.0/-132.0	+100.0/-129.0	+100.0/-127.0	+100.0/-125.0	+100.0/-116.0	+100.0/-108.0
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/-160.0	+100.0/-157.8	+100.0/-149.6	+100.0/-142.4	+100.0/-135.0
	W	+100.0/-153.0	+100.0/-145.0	+100.0/-139.0	+100.0/-132.0	+100.0/-126.0	+100.0/-126.0	+100.0/-126.0	+100.0/-125.0	+100.0/-116.0	+100.0/-108.0
64	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-157.4	+100.0/-151.0	+100.0/-145.6	+100.0/-140.6	+100.0/-134.1	+100.0/-129.6
	W	+100.0/-146.0	+100.0/-136.0	+100.0/-128.0	+100.0/-128.0	+100.0/-126.0	+100.0/-126.0	+100.0/-126.0	+100.0/-125.0	+100.0/-116.0	+100.0/-108.0

ANCHOR QUANTITIES FOR CHART 1, SEE XOX 1/4-1/2-1/4 ELEVATION, SHEET 1, FOR LOCATIONS

FRAME HEIGHT (in.)	FRAME WIDTH (in.)															
	60				66				72				78			
	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS
24	2	2	4	1	2	2	4	1	2	2	4	1	2	3	4	1
30	3	2	4	1	3	2	4	1	3	2	4	1	3	3	4	1
36	3	2	4	1	3	2	4	1	3	2	4	1	3	3	4	1
42	3	2	4	1	3	2	4	1	3	2	4	1	3	3	4	1
48	4	2	6	1	4	2	6	1	4	2	6	1	4	3	6	1
54	4	2	6	1	4	2	6	1	4	2	6	1	4	3	6	1
60	5	2	6	1	5	2	6	1	5	2	6	1	5	3	8	1
64	5	2	6	1	5	2	6	1	5	2	6	1	5	3	8	1

ABBREVIATIONS KEY:

J = TOTAL QTY EACH JAMB

FHS = QTY AT FIXED HEAD AND SILL NOT INCLUDING MTG RAIL

MR = TOTAL QTY AT EACH END OF MEETING RAIL

SHS = QTY AT SASH HEAD AND SILL NOT INCLUDING MTG RAIL

CHART 1 ANCHORAGE QUANTITY NOTES:

- CHART APPLIES TO FLANGE OR EQUAL LEG WINDOWS. SUBSTRATE 'C/M' INDICATES INSTALLATION TO CONCRETE/MASONRY OR METAL. SUBSTRATE 'W' INDICATES INSTALLATION TO WOOD FRAMING.
- DO NOT EXCEED MAX. ANCHOR SPACING SHOWN IN THE ELEVATION ON SHEET 1.
- ANCHOR QUANTITIES IN SHS LOCATIONS INCLUDE CORNER ANCHORS; EVENLY SPACE ANY ADDITIONAL ANCHORS REQUIRED BEYOND CORNER ANCHOR(S) BETWEEN CORNER AND MEETING RAIL ANCHORS.
- REDUCE CORNER OR ON-CENTER SPACING AS REQUIRED TO ENSURE 3" MIN. SPACING IS MAINTAINED BETWEEN ANY TWO FASTENERS

PRODUCT REVISED
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Building Code
NOA-No. **20-0826.17**
Expiration Date: **03/09/22**
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) 564-5432			
THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM)		08/12/20	
Title		Date	
DP & ANCHORAGE CHARTS - XOX4 FLANGE & EQUAL LEG - SG		ERIN KOSS	
Drawn By			
No.		9470-SMI-NOA	
Sheet		Rev.	
HR9470T		5 OF 12	
Series Desc		DWG	

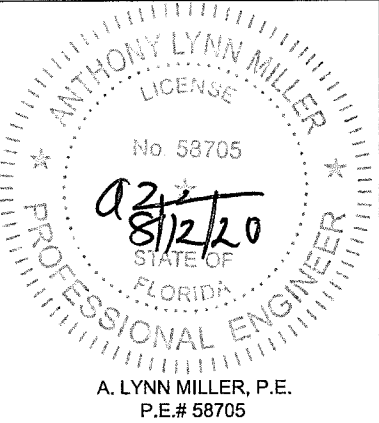


CHART 2. XO OR OX (FLANGE OR EQ. LEG) WITH SGP (GLASS TYPE D IN FIXED AND SASH) DESIGN PRESSURES (PSF)

FRAME HEIGHT (in.)	SUB- STRATE	FRAME WIDTH (in.)									
		40	44	48	52	56	60	64	68	72	74.625
24	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	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-154.7
	W	+100.0/-160.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0
30	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	+100.0/-160.0	+100.0/-160.0	+100.0/-149.2	+100.0/-140.4
	W	+100.0/-160.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-133.0	+100.0/-133.0	+100.0/-133.0	+100.0/-133.0
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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.0	+100.0/-135.2
	W	+100.0/-160.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-132.0	+100.0/-132.0	+100.0/-132.0	+100.0/-132.0
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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.0	+100.0/-135.0
	W	+100.0/-159.0	+100.0/-140.0	+100.0/-140.0	+100.0/-135.0	+100.0/-130.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.0	+100.0/-135.0
	W	+100.0/-159.0	+100.0/-140.0	+100.0/-140.0	+100.0/-135.0	+100.0/-130.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.0	+100.0/-135.0
	W	+100.0/-159.0	+100.0/-140.0	+100.0/-140.0	+100.0/-135.0	+100.0/-130.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+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/-160.0	+100.0/-157.4	+100.0/-150.4	+100.0/-144.4	+100.0/-135.0
	W	+100.0/-159.0	+100.0/-140.0	+100.0/-140.0	+100.0/-135.0	+100.0/-130.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0
64	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-155.4	+100.0/-148.7	+100.0/-142.9	+100.0/-136.4	+100.0/-132.5
	W	+100.0/-157.0	+100.0/-140.0	+100.0/-136.0	+100.0/-128.0	+100.0/-128.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-123.0	+100.0/-120.0

ANCHOR QUANTITIES FOR CHART 2, SEE XO ELEVATION, SHEET 2, FOR LOCATIONS

FRAME HEIGHT (in.)	FRAME WIDTH (in.)																																							
	40				44				48				52				56				60				64				68				72				74.625			
	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS				
24	3	1	4	1	3	1	4	1	3	2	4	2	3	2	4	2	3	2	4	2	3	2	4	2	3	2	4	2	3	3	4	3	3	3	4	3				
30	3	1	4	1	3	1	4	1	3	2	4	2	3	2	4	2	3	2	4	2	3	2	4	2	3	2	4	2	3	3	4	3	3	3	4	3				
36	4	1	4	1	4	1	4	1	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	3	4	3	4	3	4	3				
42	4	1	4	1	4	1	4	1	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	6	2	4	3	6	3	4	3	6	3				
48	5	1	6	1	5	1	6	1	5	2	6	2	5	2	6	2	5	2	6	2	5	2	6	2	5	2	6	2	5	3	6	3	5	3	6	3				
54	5	1	6	1	5	1	6	1	5	2	6	2	5	2	6	2	5	2	6	2	5	2	6	2	5	2	6	2	5	3	6	3	5	3	6	3				
60	6	1	6	1	6	1	6	1	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	8	2	6	3	8	3	6	3	8	3				
64	6	1	6	1	6	1	6	1	6	2	6	2	6	2	6	2	6	2	8	2	6	2	8	2	6	2	8	2	6	3	8	3	6	3	8	3				

ABBREVIATIONS KEY:

J = TOTAL QTY EACH JAMB FHS = QTY AT FIXED HEAD AND SILL NOT INCLUDING MTG RAIL MR = TOTAL QTY AT EACH END OF MEETING RAIL
SHS = QTY AT SASH HEAD AND SILL NOT INCLUDING MTG RAIL

CHART 2 ANCHORAGE QUANTITY NOTES:

1. CHART APPLIES TO FLANGE OR EQUAL LEG WINDOWS. SUBSTRATE 'C/M' INDICATES INSTALLATION TO CONCRETE/MASONRY OR METAL. SUBSTRATE 'W' INDICATES INSTALLATION TO WOOD FRAMING.
2. DO NOT EXCEED MAX. ANCHOR SPACING SHOWN IN THE XO ELEVATION ON SHEET 2.
3. ANCHOR QUANTITIES IN SHS LOCATIONS INCLUDE CORNER ANCHORS; EVENLY SPACE ANY ADDITIONAL ANCHORS REQUIRED BEYOND CORNER ANCHOR(S) BETWEEN CORNER AND MEETING RAIL ANCHORS.
4. REDUCE CORNER OR ON-CENTER SPACING AS REQUIRED TO ENSURE 3" MIN. SPACING IS MAINTAINED BETWEEN ANY TWO FASTENERS

PRODUCT REVISED
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NOA-No. 20-0826.17
Expiration Date: 03/09/22
By: *Manuel Perez*
Miami-Dade Product Control

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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. HORIZ. ROLLER (SM)	
Title		Date	08/12/20
DP & ANCHORAGE CHARTS - XO/OX FLANGE & EQUAL LEG - SG		By	ERIN KOSS
HR9470T		Drawn	ERIN KOSS
Sheet		DWG No.	9470-SMI-NOA
6 OF 12		Rev.	
Series		DWG	

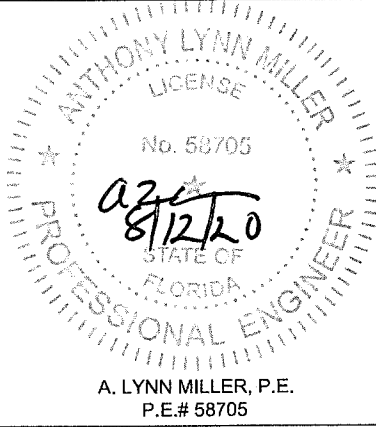


CHART 3. XOx 1/3-1/3-1/3 (FLANGE OR EQ. LEG) WITH SGP (GLASS TYPE D IN FIXED AND SASH) DESIGN PRESSURES (PSF)

FRAME HEIGHT (in.)	SUB-STRATE	FRAME WIDTH (in.)									
		60	66	72	78	84	90	96	102	108	112
24	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	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-154.7
	W	+100.0/-160.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0
30	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	+100.0/-160.0	+100.0/-160.0	+100.0/-149.3	+100.0/-140.4
	W	+100.0/-160.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-133.0	+100.0/-133.0	+100.0/-133.0	+100.0/-133.0
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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.2	+100.0/-135.2
	W	+100.0/-160.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-140.0	+100.0/-132.0	+100.0/-132.0	+100.0/-132.0	+100.0/-132.0
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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.2	+100.0/-135.0
	W	+100.0/-159.0	+100.0/-140.0	+100.0/-140.0	+100.0/-135.0	+100.0/-130.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.2	+100.0/-135.0
	W	+100.0/-159.0	+100.0/-140.0	+100.0/-140.0	+100.0/-135.0	+100.0/-130.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+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	+100.0/-160.0	+100.0/-160.0	+100.0/-145.2	+100.0/-135.0
	W	+100.0/-159.0	+100.0/-140.0	+100.0/-140.0	+100.0/-135.0	+100.0/-130.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+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/-160.0	+100.0/-157.5	+100.0/-150.5	+100.0/-144.5	+100.0/-135.0
	W	+100.0/-159.0	+100.0/-140.0	+100.0/-140.0	+100.0/-135.0	+100.0/-130.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0
64	C/M	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-160.0	+100.0/-155.4	+100.0/-148.8	+100.0/-143.0	+100.0/-136.5	+100.0/-132.5
	W	+100.0/-157.0	+100.0/-140.0	+100.0/-136.0	+100.0/-128.0	+100.0/-128.0	+100.0/-125.0	+100.0/-125.0	+100.0/-125.0	+100.0/-123.0	+100.0/-120.0

ANCHOR QUANTITIES FOR CHART 3, SEE XOx 1/3-1/3-1/3 ELEVATION, SHEET 2, FOR LOCATIONS

FRAME HEIGHT (in.)	FRAME WIDTH (in.)																																							
	60				66				72				78				84				90				96				102				108				112			
	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS	J	FHS	MR	SHS				
24	3	0	4	1	3	0	4	1	3	1	4	2	3	1	4	2	3	1	4	2	3	1	4	2	3	1	4	2	3	2	4	3	3	2	4	3				
30	3	0	4	1	3	0	4	1	3	1	4	2	3	1	4	2	3	1	4	2	3	1	4	2	3	1	4	2	3	2	4	3	3	2	4	3				
36	4	0	4	1	4	0	4	1	4	1	4	2	4	1	4	2	4	1	4	2	4	1	4	2	4	1	4	2	4	2	4	3	4	2	4	3				
42	4	0	4	1	4	0	4	1	4	1	4	2	4	1	4	2	4	1	4	2	4	1	4	2	4	1	6	2	4	2	6	3	4	2	6	3				
48	5	0	6	1	5	0	6	1	5	1	6	2	5	1	6	2	5	1	6	2	5	1	6	2	5	1	6	2	5	2	6	3	5	2	6	3				
54	5	0	6	1	5	0	6	1	5	1	6	2	5	1	6	2	5	1	6	2	5	1	6	2	5	1	6	2	5	2	6	3	5	2	6	3				
60	6	0	6	1	6	0	6	1	6	1	6	2	6	1	6	2	6	1	6	2	6	1	6	2	6	1	8	2	6	2	8	3	6	2	8	3				
64	6	0	6	1	6	0	6	1	6	1	6	2	6	1	6	2	6	1	8	2	6	1	8	2	6	1	8	2	6	2	8	3	6	2	8	3				

ABBREVIATIONS KEY:

J = TOTAL QTY EACH JAMB

FHS = QTY AT FIXED HEAD AND SILL NOT INCLUDING MTG RAIL

MR = TOTAL QTY AT EACH END OF MEETING RAIL

SHS = QTY AT SASH HEAD AND SILL NOT INCLUDING MTG RAIL

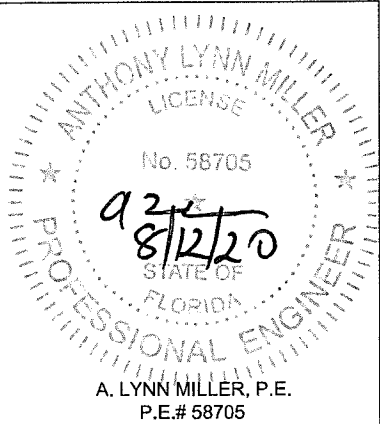
CHART 3 ANCHORAGE QUANTITY NOTES:

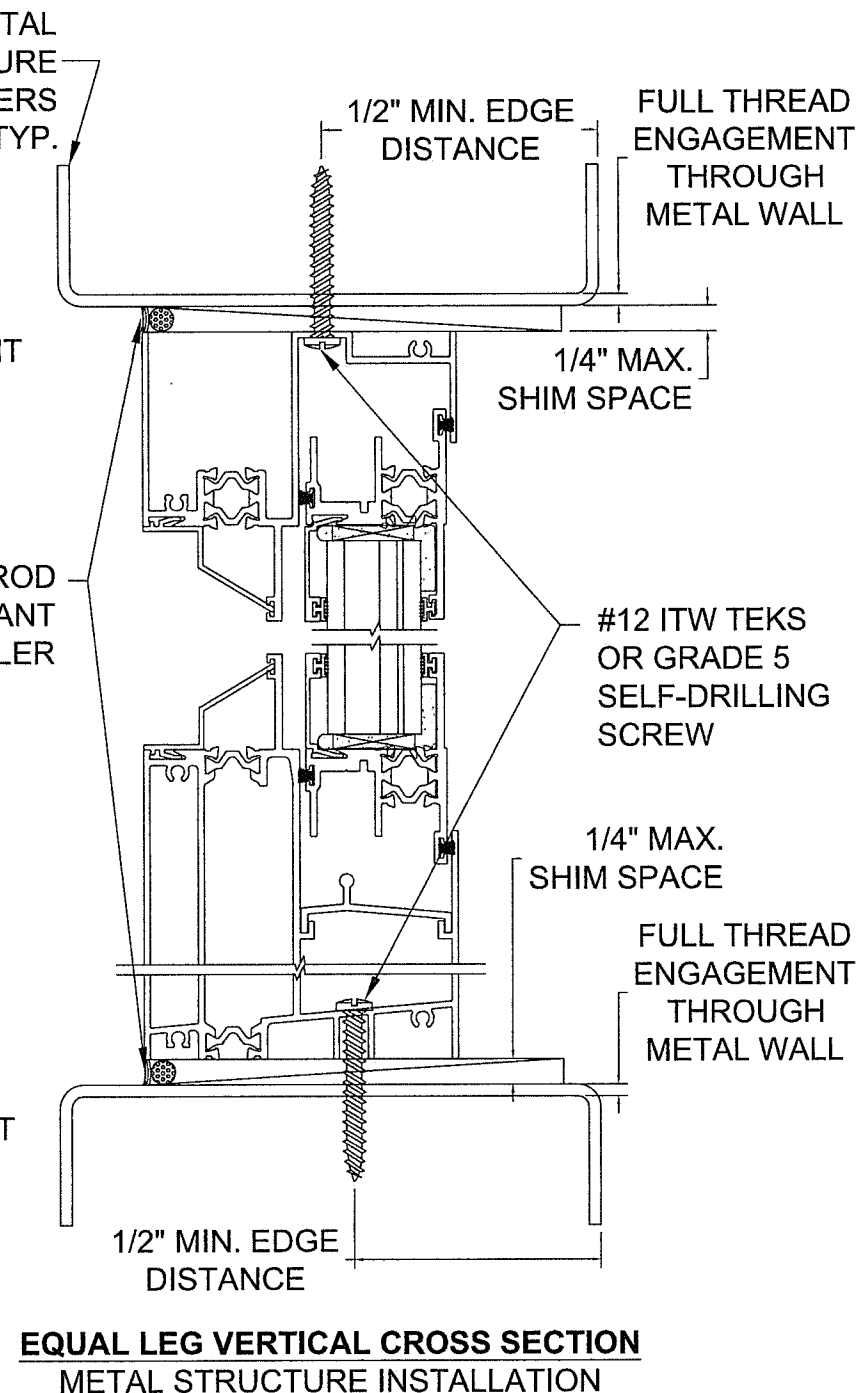
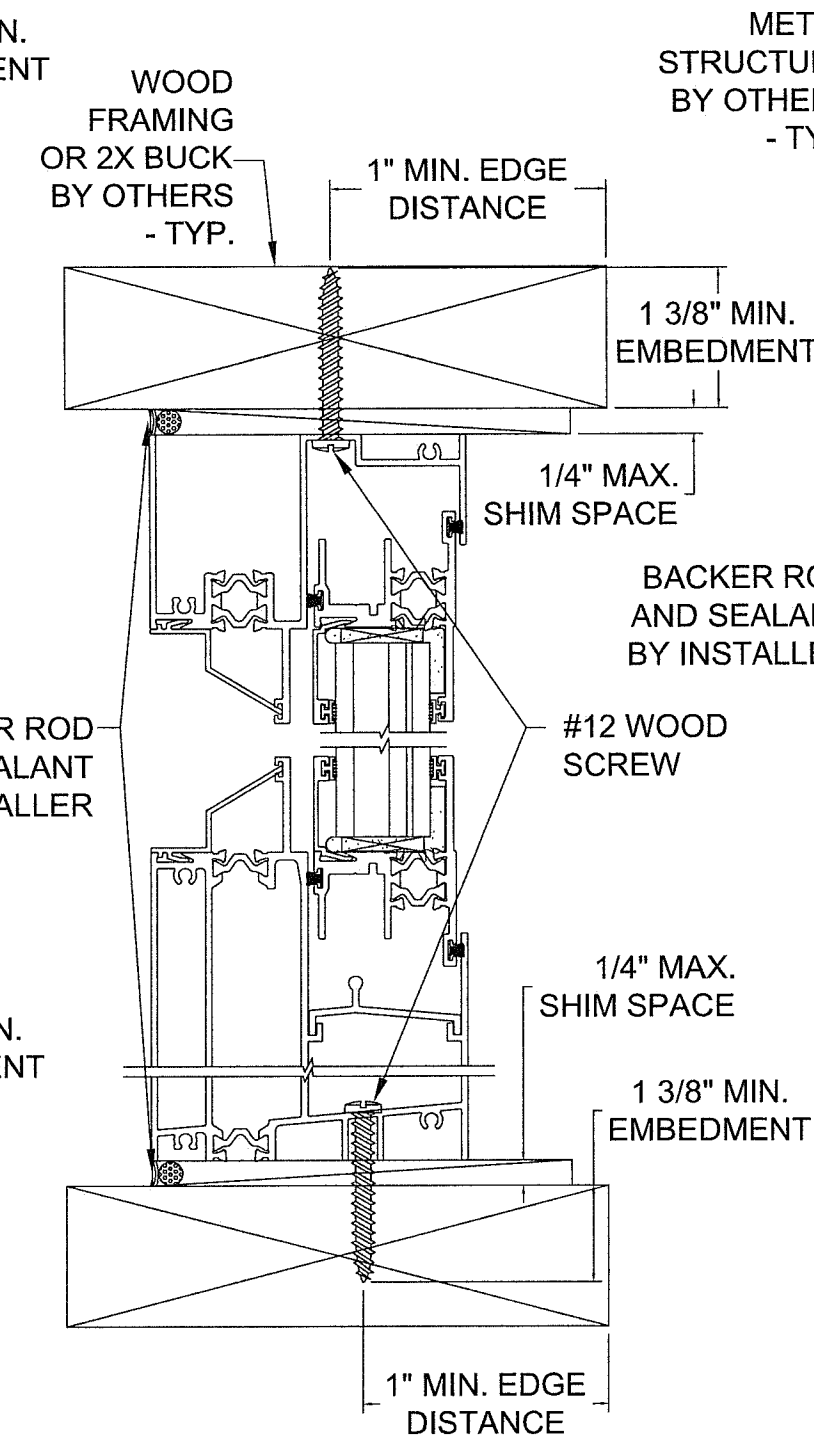
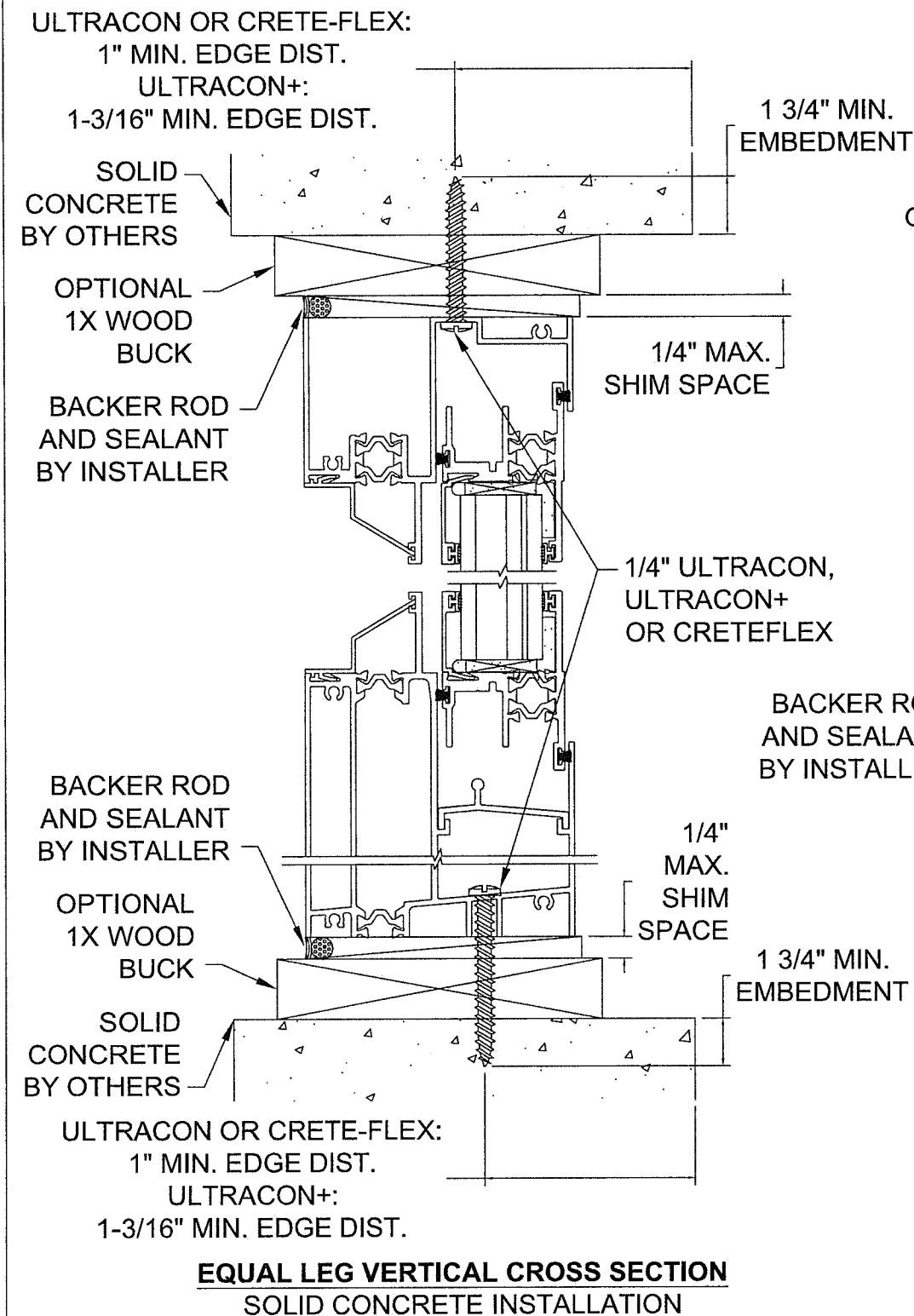
- CHART APPLIES TO FLANGE OR EQUAL LEG WINDOWS. SUBSTRATE 'C/M' INDICATES INSTALLATION TO CONCRETE/MASONRY OR METAL. SUBSTRATE 'W' INDICATES INSTALLATION TO WOOD FRAMING.
- DO NOT EXCEED MAX. ANCHOR SPACING SHOWN IN THE XOx ELEVATION ON SHEET 2.
- ANCHOR QUANTITIES IN SHS LOCATIONS INCLUDE CORNER ANCHORS; EVENLY SPACE ANY ADDITIONAL ANCHORS REQUIRED BEYOND CORNER ANCHOR(S) BETWEEN CORNER AND MEETING RAIL ANCHORS.
- 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. **20-0826.17**
Expiration Date: **03/09/22**
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. HORIZ. ROLLER (SM)	
Title		Date	
DP & ANCHORAGE CHARTS - XOX3 FLANGE & EQUAL LEG - SG		08/12/20	
By		ERIN KOSS	
Drawn			
DWG No.		9470-SMI-NOA	
7 OF 12		Rev.	
Sheet			
HR9470T			
Series			
Desc.			





GENERAL ANCHOR NOTES (X AND O ANCHORAGE IS THE SAME, X SHOWN IN DETAILS):

1. INSTALL ONE ANCHOR AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEETS 1 AND 2.
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.

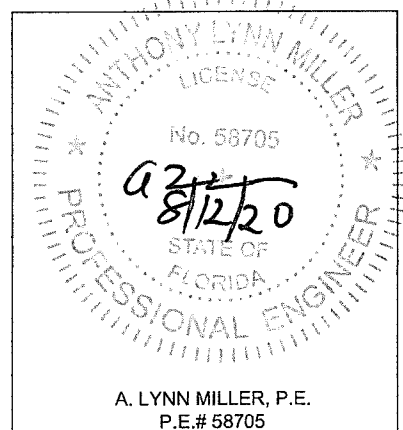
EXTERIOR

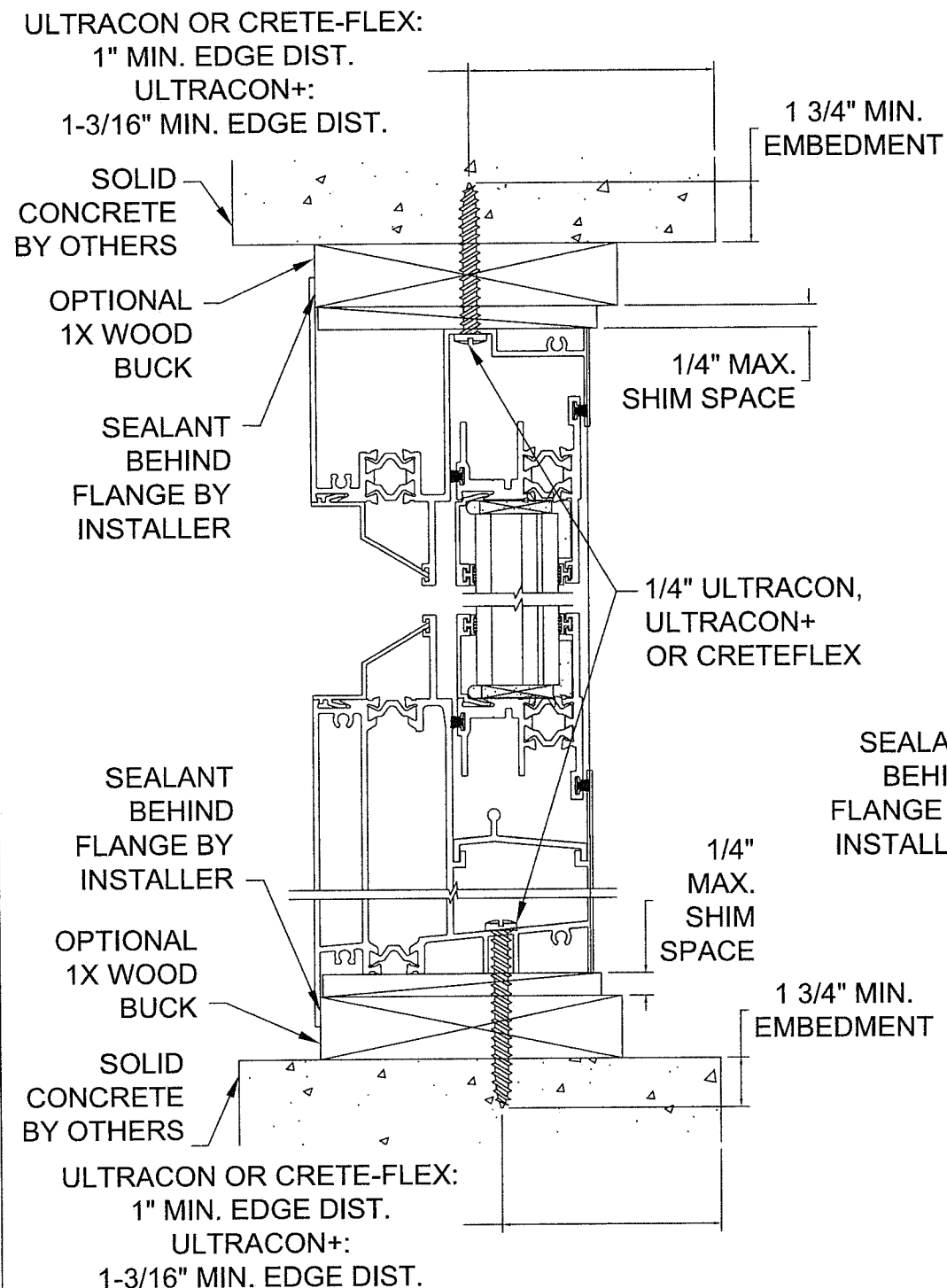


PRODUCT REVISED
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Building Code
NOA-No. **20-0826.17**
Expiration Date: **03/09/22**
By: *Manuel Perez*
Miami-Dade Product Control

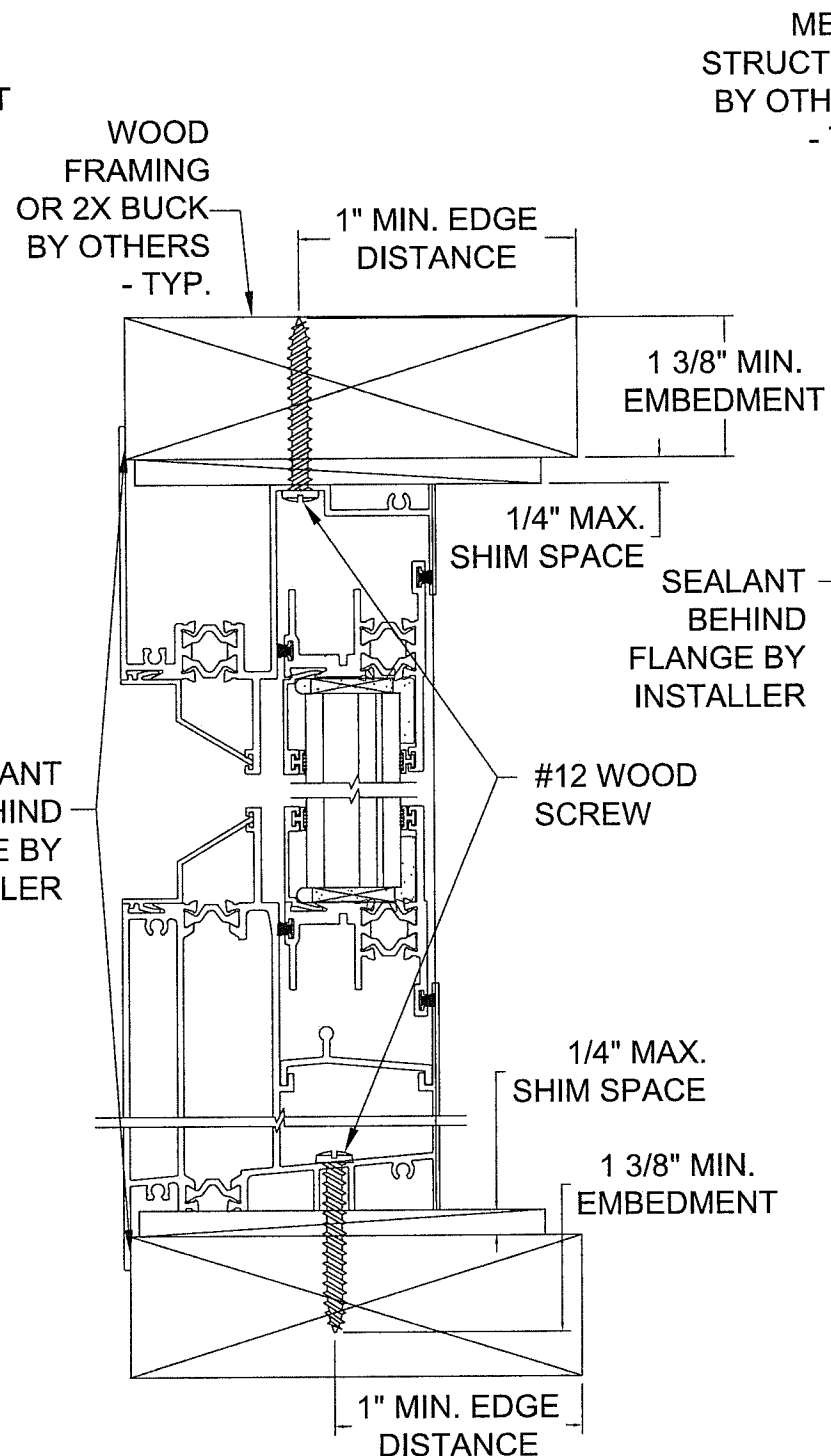
Revision: ADDED 1/4" DEWALT ULTRAACON+.

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 By ERIN KOSS Drawn No. 9470-SMI-NOA DWG 8 OF 12 Sheet HR9470T	THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM) INSTALLATION DETAILS - EQUAL LEG	Rev. Title

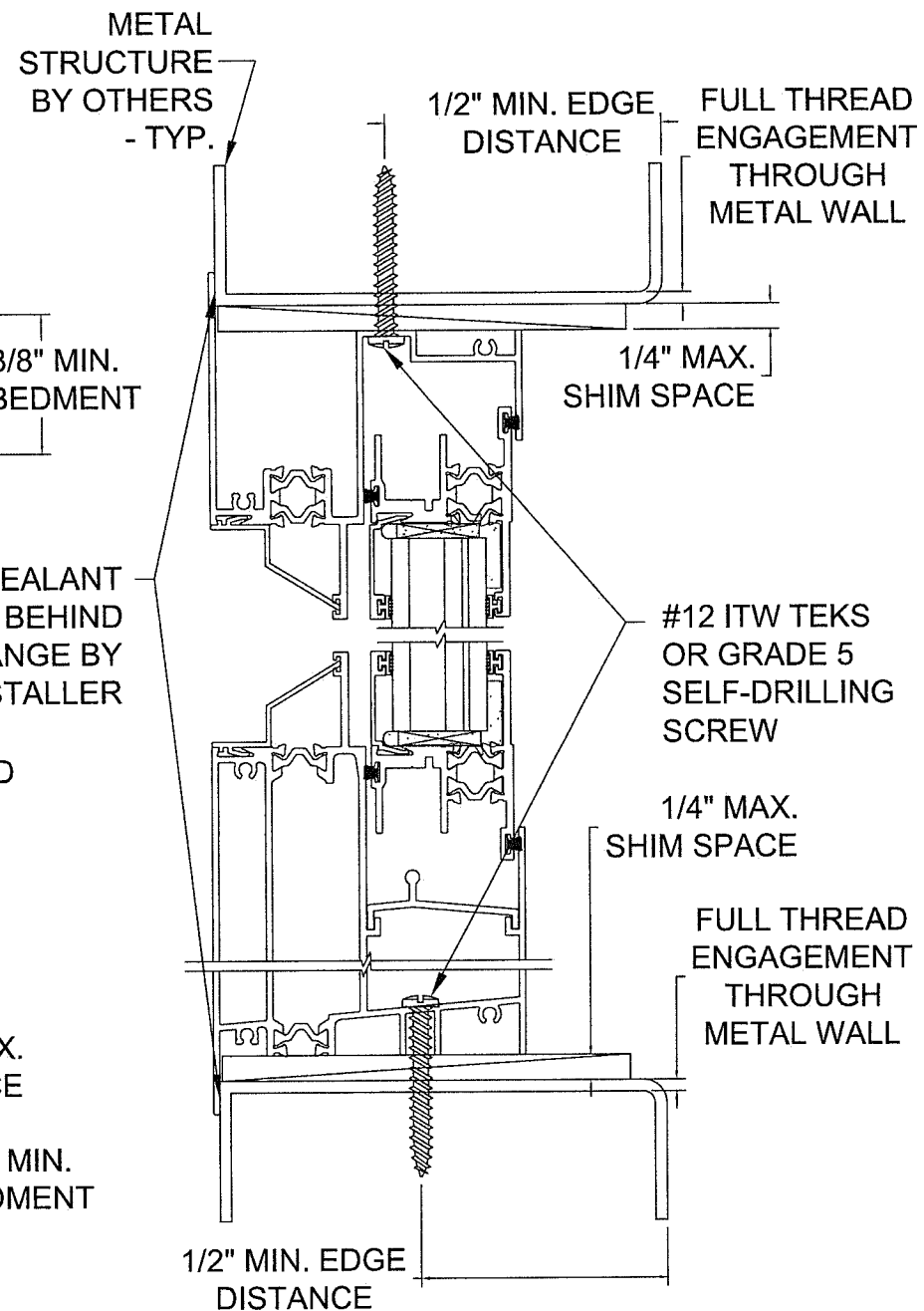




FLANGE VERTICAL CROSS SECTION
SOLID CONCRETE INSTALLATION



FLANGE VERTICAL CROSS SECTION
WOOD FRAMING OR
2X BUCK INSTALLATION



FLANGE VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

GENERAL ANCHOR NOTES (X AND O ANCHORAGE IS THE SAME, X SHOWN IN DETAILS):

1. INSTALL ONE ANCHOR AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEETS 1 AND 2.
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.

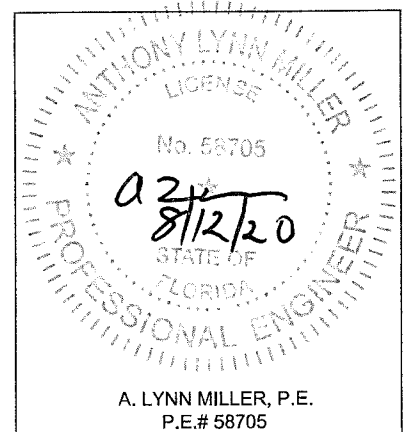
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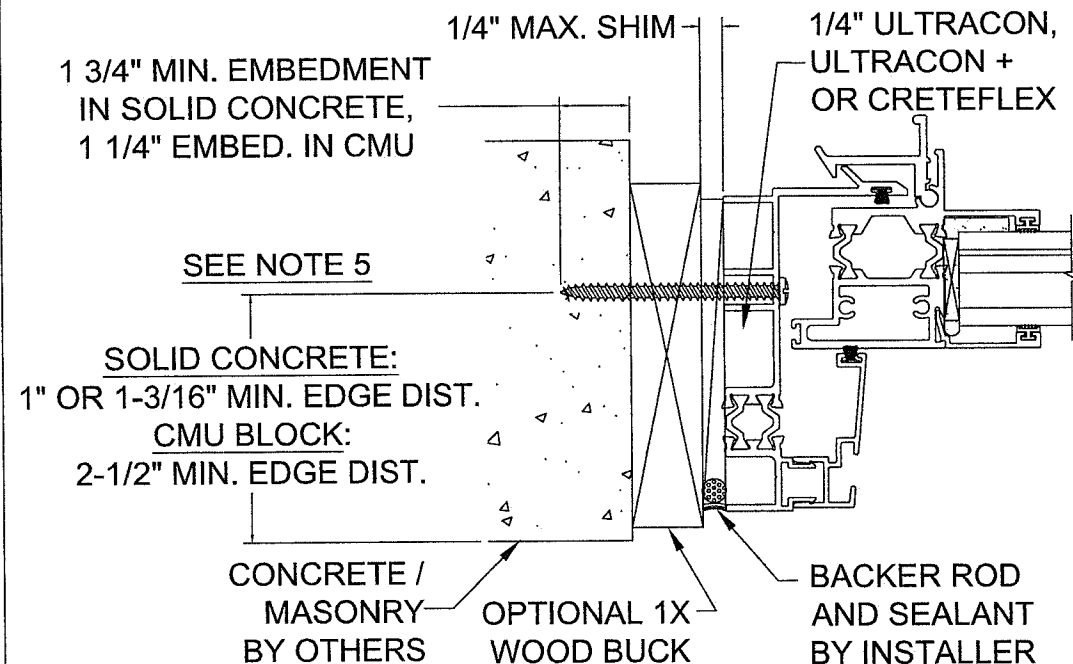


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Expiration Date: **03/09/22**
By: *Manuel Perez*
Miami-Dade Product Control

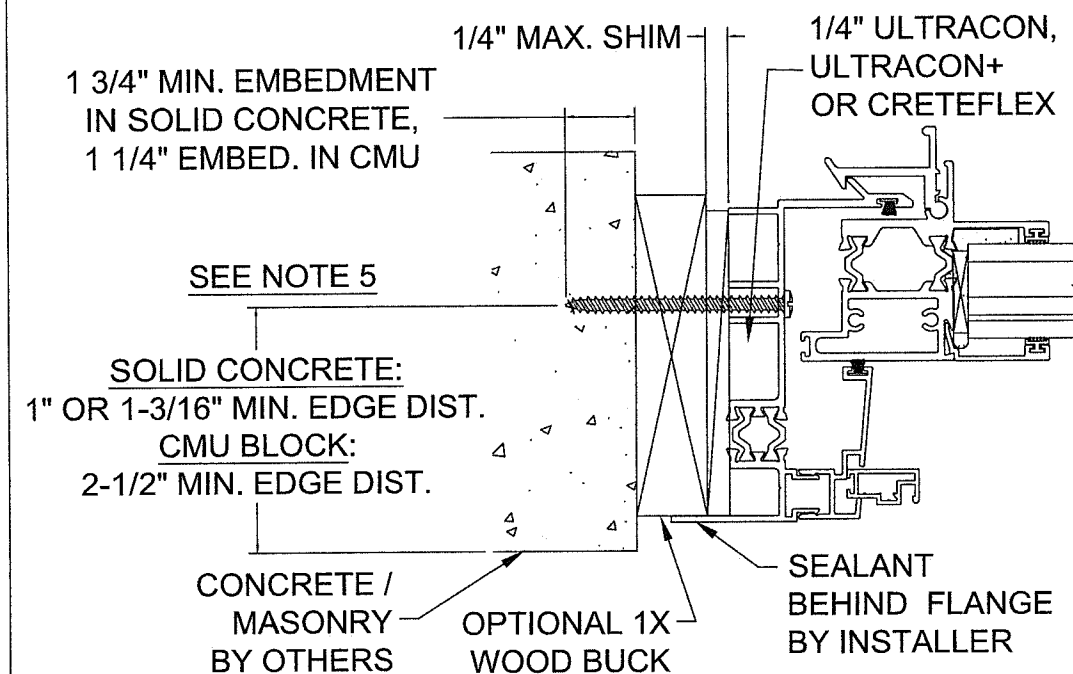
Revision: ADDED 1/4" DEWALT ULTRACON+.

<div>WINDOOR®</div> <div>INCORPORATED</div>		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	
<div>WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432</div>		THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM)	
Title		Date	08/12/20
INSTALLATION DETAILS - FLANGE		ERIN KOSS	
Drawn By			
DWG No.		9470-SMI-NOA	
Sheet		Rev.	
HR9470T		9 OF 12	
Series Desc.			

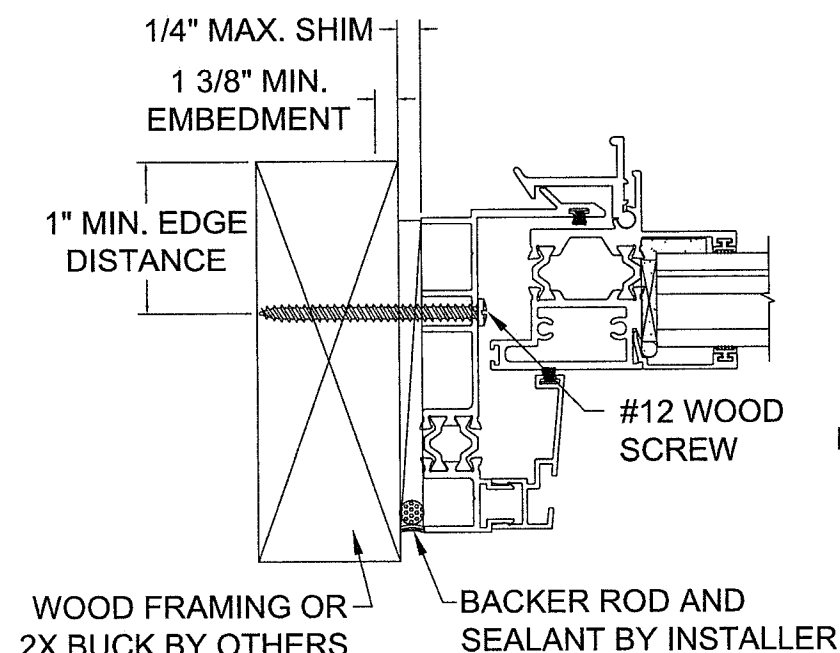




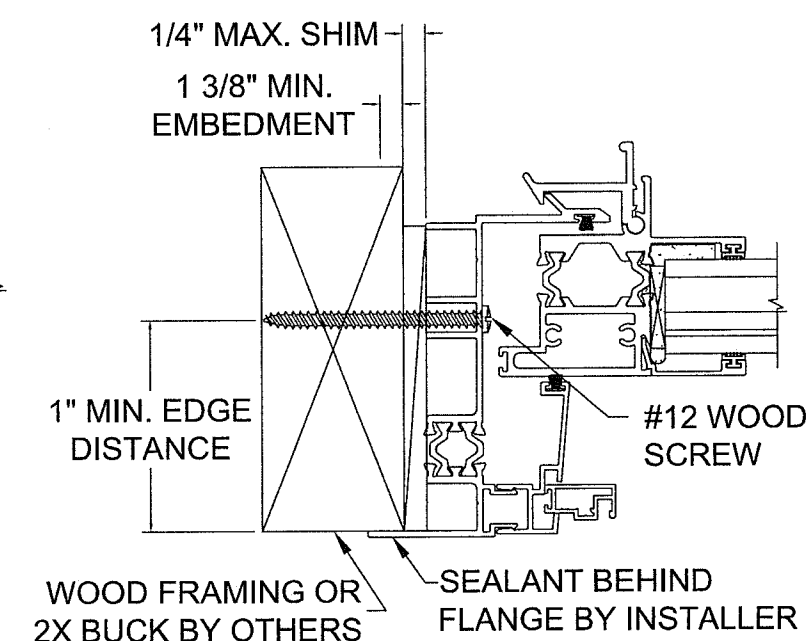
EQUAL LEG HORIZONTAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



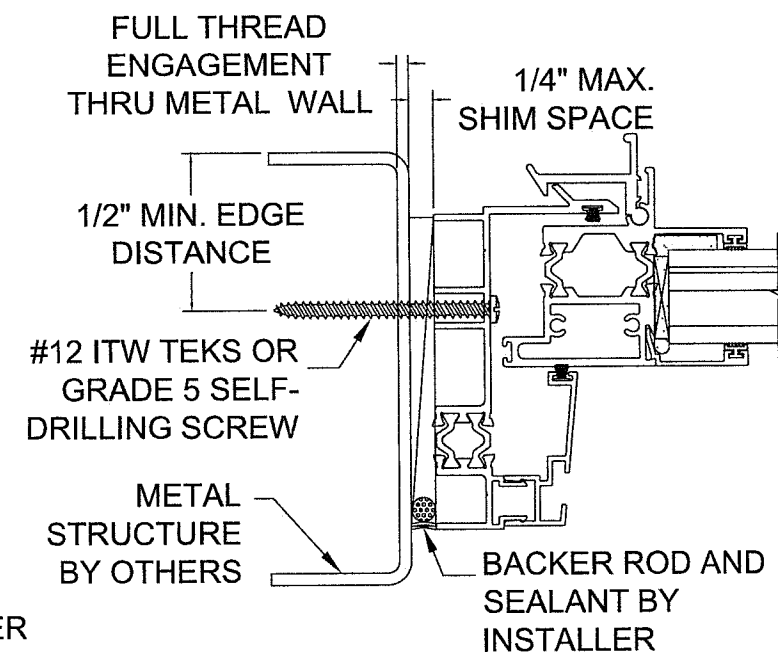
FLANGE HORIZONTAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



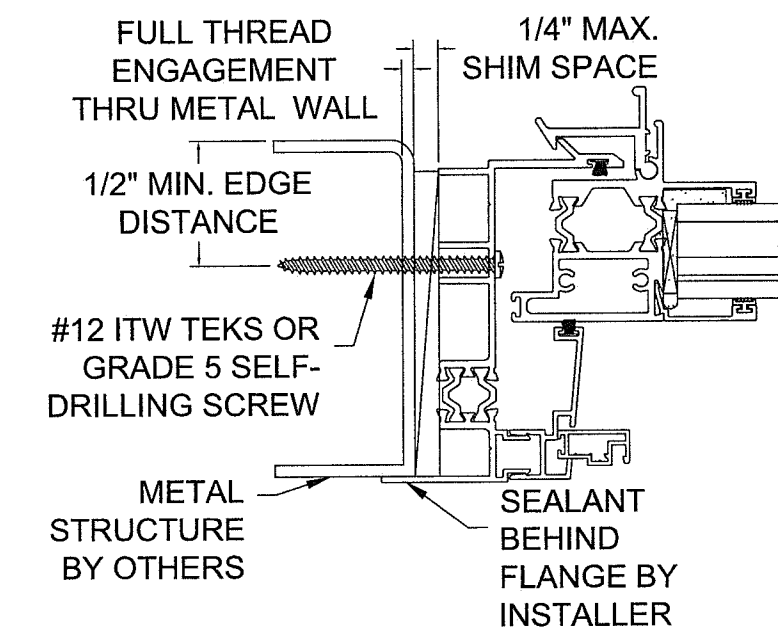
EQUAL LEG HORIZONTAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



FLANGE HORIZONTAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



EQUAL LEG HORIZONTAL CROSS SECTION
METAL STRUCTURE INSTALLATION



FLANGE HORIZONTAL CROSS SECTION
METAL STRUCTURE INSTALLATION

GENERAL ANCHOR NOTES (X AND O ANCHORAGE IS THE SAME, X SHOWN IN DETAILS):

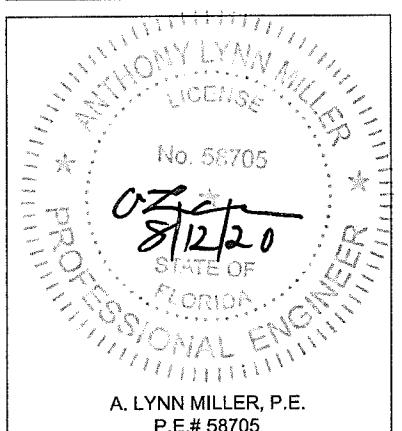
1. INSTALL ONE ANCHOR AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEETS 1 AND 2.
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE 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
↓

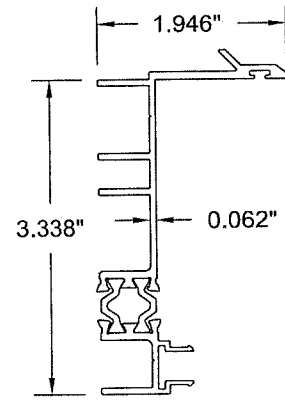
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0826.17**
Expiration Date: **03/09/22**
By: *Manuel Perez*
Miami-Dade Product Control

Revision: ADDED 1/4" DEWALT ULTRACON+.

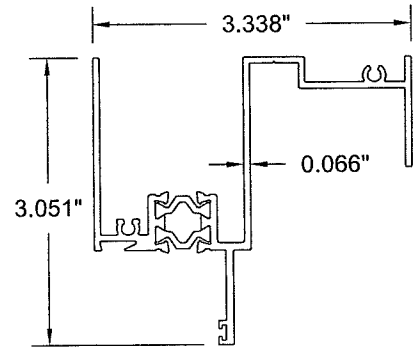
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	08/12/20	Rev.	9470-SMI-NOA
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	Drawn By	ERIN KOSS	DWG No	10 OF 12
THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM)	Title	INSTALLATION DETAILS - JAMBS	Sheet	HR9470T



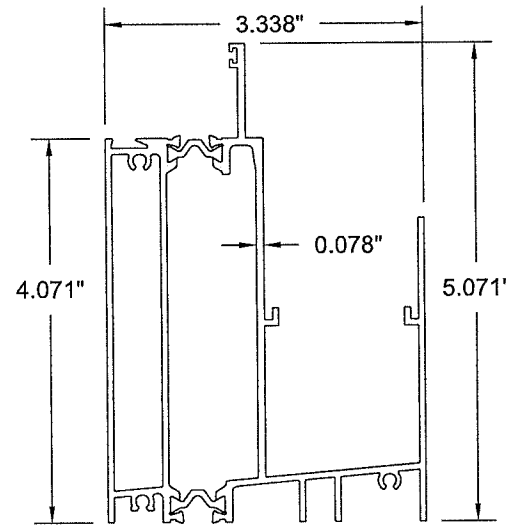
A. LYNN MILLER, P.E.
P.E.# 58705



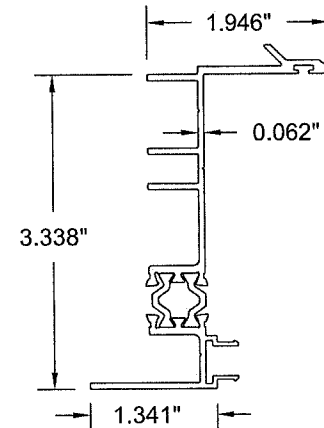
① FRAME JAMB
X EQUAL LEG



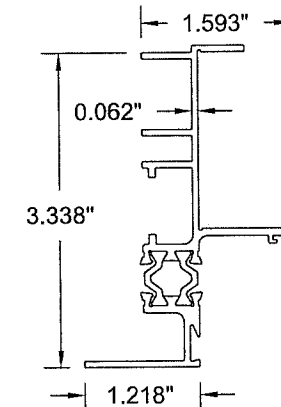
② FRAME HEAD EQUAL LEG



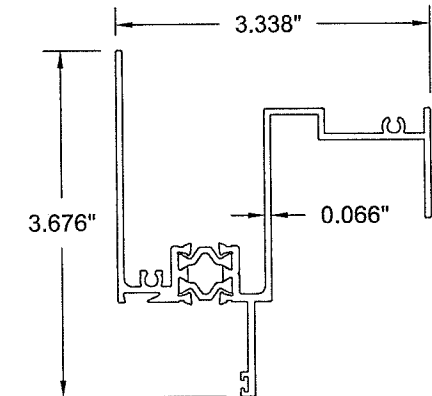
③ FRAME SILL EQUAL LEG



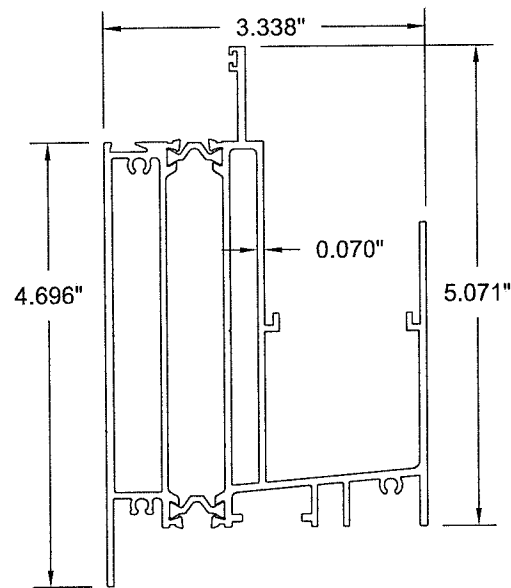
④ FRAME JAMB
X FLANGE



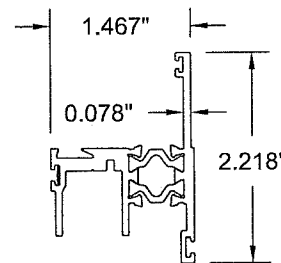
⑤ FRAME JAMB
O FLANGE



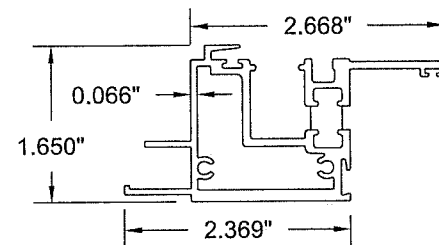
⑥ FRAME HEAD FLANGE



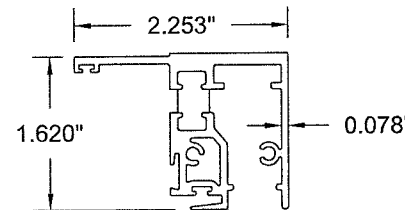
⑦ FRAME SILL FLANGE



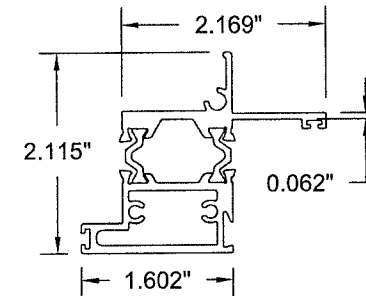
⑪ SASH TOP/
BOT. RAIL



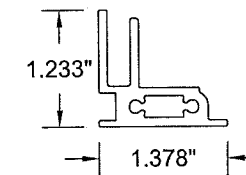
⑫ FIXED MTG. RAIL



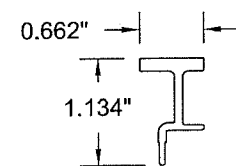
⑬ SASH MTG. RAIL



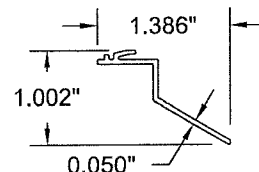
⑭ SASH PULL RAIL



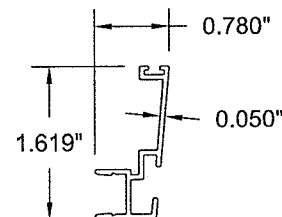
⑯ FIXED MTG. RAIL
REINFORCEMENT



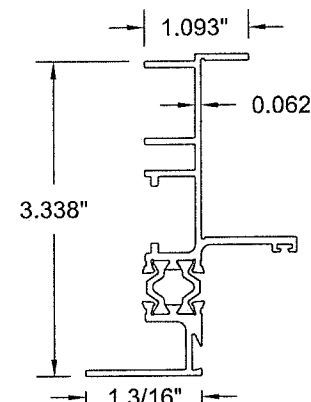
⑰ SASH MTG. RAIL
REINFORCEMENT



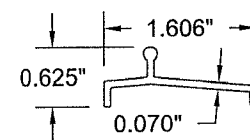
⑱ VINYL SCREEN
RETAINER



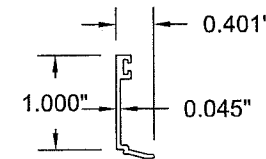
⑳ VERTICAL SCREEN
ADAPTER



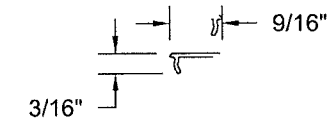
㉑ FRAME JAMB
O EQUAL LEG/FIN



㉓ ROLLER TRACK



㉔ GLASS STOP

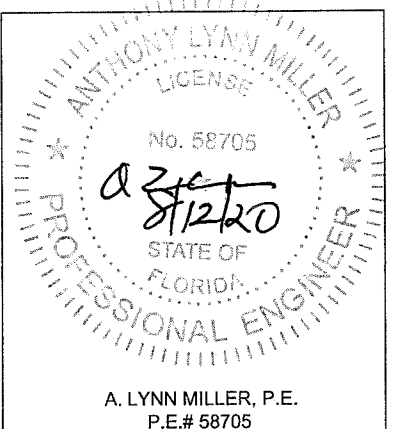


㉘ DEBRIDGE COVER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0826.17**
Expiration Date: **03/09/22**
By: *Manuel Perez*
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	Rev.
	Title THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM)	Desc. EXTRUSIONS	Drawn By ERIN KOSS	DWG No. 9470-SMI-NOA
Series HR9470T		Sheet 11 OF 12	9470-SMI-NOA	



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

BILL OF MATERIALS			
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER (MAT.)
1	13947006	FRAME JAMB OPERABLE FLUSH	KEYMARK (ALUM. 6063-T6)
2	1394X004	FRAME HEAD FLUSH	KEYMARK (ALUM. 6063-T6)
3	13947001	FRAME SILL FLUSH	KEYMARK (ALUM. 6063-T6)
4	13947007	FRAME JAMB OPERABLE FLANGE	KEYMARK (ALUM. 6063-T6)
5	1394X002	FRAME JAMB FIXED FLANGE	KEYMARK (ALUM. 6063-T6)
6	1394X005	FRAME HEAD FLANGE	KEYMARK (ALUM. 6063-T6)
7	13947002	FRAME SILL FLANGE	KEYMARK (ALUM. 6063-T6)
8			
9			
10			
11	13947004	SASH TOP & BOTTOM RAIL	KEYMARK (ALUM. 6063-T6)
12	1394X007	FIXED MEETING RAIL	KEYMARK (ALUM. 6063-T6)
13	1394X010	SASH MEETING RAIL	KEYMARK (ALUM. 6063-T6)
14	13947005	SASH PULL RAIL	KEYMARK (ALUM. 6063-T6)
15			
16	1294X029	FIXED MEETING RAIL REINFORCEMENT	KEYMARK (ALUM. 6063-T6)
17	1194X011	SASH MEETING RAIL REINFORCEMENT	KEYMARK (ALUM. 6063-T6)
18	17010415	VINYL SCREEN RETAINER	TEAM PLASTICS (10415)
19	1194X013	FRAME HEAD SCREW COVER	KEYMARK (ALUM. 6063-T6)
20	1194X009	VERTICAL SCREEN ADAPTER	KEYMARK (ALUM. 6063-T6)
21	1394X001	FRAME JAMB FIXED FLUSH	KEYMARK (ALUM. 6063-T6)
22	H4000-XX-SL202	SASH LOCK	
23	11947009	ROLLER TRACK	KEYMARK (ALUM. 6063-T6)
24	1194X012	GLASS STOP	KEYMARK (ALUM. 6063-T6)
25	121005	GLAZING VINYL #5	TEAM PLASTICS (VINYL)
26	17015071	SASH STOP	TEAM PLASTICS (VINYL)
27	17015070	BALANCE COVER	TEAM PLASTICS (VINYL)
28	17015072	DEBRIDGE COVER	TEAM PLASTICS (VINYL)
29	17015073	THERMAL ISOLATOR	TEAM PLASTICS (VINYL)
30	S4000-XX-150	SCREEN FRAME	KEYMARK (ALUM. 6063-T6)

BILL OF MATERIALS			
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER (MAT.)
31	S4000-BL-SC	SCREEN CORNERS	
32	S4000-SS-027	SCREEN WIRE LIFT	
33	900187	SCREEN TENSION SPRING	
34	SBVXX-BL-0600Z	SCREEN MESH	
35	S0010-BL-2200R	SCREEN SPLINE	
36	121998	0.187" W X 0.200" H FIN WEATHERSTRIP	ULTRAFAB
37	W4000-BL-20218	0.187" W X 0.300" H PROLON WEATHERSTRIP	ULTRAFAB
38	W4070-BL-W2	CLOSED CELL FOAM PAD	FRANKE LOWE
39	122023	0.810" W X 0.700" L X 0.240" H WOOLPILE PAD	ULTRAFAB
40	131096	#6 X 3/4" FLAT HEAD TYPE A PAINTED SASH LOCK SCREWS	
41	131014	#8 X 1" PAN HEAD SQUARE DRIVE LEAD POINT CORNER ASSEMBLY SCREWS	
42	131085	#8 X 1" FLAT HEAD BALANCE SCREWS TYPE A	
43	263400	9/16" THERMAL STRUT INSULBAR	ENSINGER (TECATHERM 66 GF)
44	121104	GLASS SHIM DUROMETER 85	FRANK LOWE (2RB-89-0250-024-032)
45		SIKA 552, DOW 791, DOW 983	SIKA / DOW (POLYURETHANE/SILICONE)
46	GLASS	SEE GLAZING DETAIL AND TYPES, SHEET 2	
47	1914-7188-SS	ROLLER ASSEMBLY	AMESBURY (STAINLESS STEEL)
48	TP990	SPACER SYSTEM (SEE NOTE BELOW)	HELIMA (ALUMINUM AW-3000)

NOTE: ALUMINUM LOW PROFILE INSULATED-GLASS SPACER IS HELIMA AH 0950 FOR GLASS TYPE D, AND HELIMA AH 1250 FOR GLASS TYPES E AND F. SPACER MATERIAL TENSILE ULTIMATE STRENGTH FTU = 17KSI AND TENSILE YIELD STRENGTH FTY = 12KSI.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0826.17**
Expiration Date: **03/09/22**
By: *Manuel Perez*
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 ERIN KOSS		
		Drawn		
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		THERMALLY BROKEN ALUM. HORIZ. ROLLER (SM)		
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