

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/buiding

BOARD AND CODE ADMINISTRATION DIVISION

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

NOTICE OF ACCEPTANCE (NOA)

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 - S.M.I.

APPROVAL DOCUMENT: Drawing No. **9400-SMI-NOA**, titled "Thermally Broken Alum. Single Hung (SM)", sheets 1 through 10 of 10, 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: 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. 18-0116.22** 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.

MIAMI-DADE COUNTY
APPROVED

NOA No. 20-0826.15 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. 15-0914.13)
- 2. Drawing No. 9400-NOA-SM, titled "Series 9400 Thermally Broken Small Missile Impact Single Hung Window", sheets 1 through 10 of 10, 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. 18-0116.22)

В. **TESTS**

- Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94 1.
 - 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 a single hung window, prepared by National Certified Testing Laboratories, Inc., Test Reports No.

NCTL-210-3983-04 and NCTL-210-3983-5, both dated 04/28/15, and all signed and sealed by Gerard J. Ferrara, P.E.

(Submitted under NOA No. 15-0914.13)

C. **CALCULATIONS**

- 1. Anchor verification calculations and structural analysis, complying with FBC 5th 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. 15-0914.13)
- 2. Glazing complies with ASTM E1300-04

D. **OUALITY ASSURANCE**

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

MATERIAL CERTIFICATIONS E.

Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their 1. "SentryGlas® (Clear and White) Glass Interlayers" dated 12/26/17, expiring on 07/04/23.

> **Product Control Examiner** NOA No. 20-0826.15

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- E. MATERIAL CERTIFICATIONS (CONTINUED)
 - 2. 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.
 - 3. 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.
 - 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 ³/₄-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.xft² (0.35 W/m²) by 143°F (62°C) on 13 ³/₈ 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** 6th **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. 18-0116.22)
- 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-210-3983-04 and NCTL-210-3983-5, issued by National Certified Testing Laboratories, Inc., both dated 04/28/15, all signed and sealed by Gerard J. Ferrara, P.E. (Submitted under NOA No. 15-0914.13)
- 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. 15-0914.13)

G. OTHERS

1. Notice of Acceptance No. **15-0914.13**, issued to WinDoor, Inc. for their Series "9400 Thermal Broken" Aluminum Single Hung Window - S.M.I., approved on 03/02/17 and expiring on 03/02/22.

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0826.15

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 9400-SMI-NOA, titled "Thermally Broken Alum. Single Hung (SM)", sheets 1 through 10 of 10, 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 Perez, P.E. Product Control Examiner NOA No. 20-0826.15

WinDoor, Inc.

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), prepared by Turner Engineering & Consulting, Inc., dated 08/24/15, signed and sealed by Lucas A. Turner, P.E., updated to comply with FBC 7th 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.

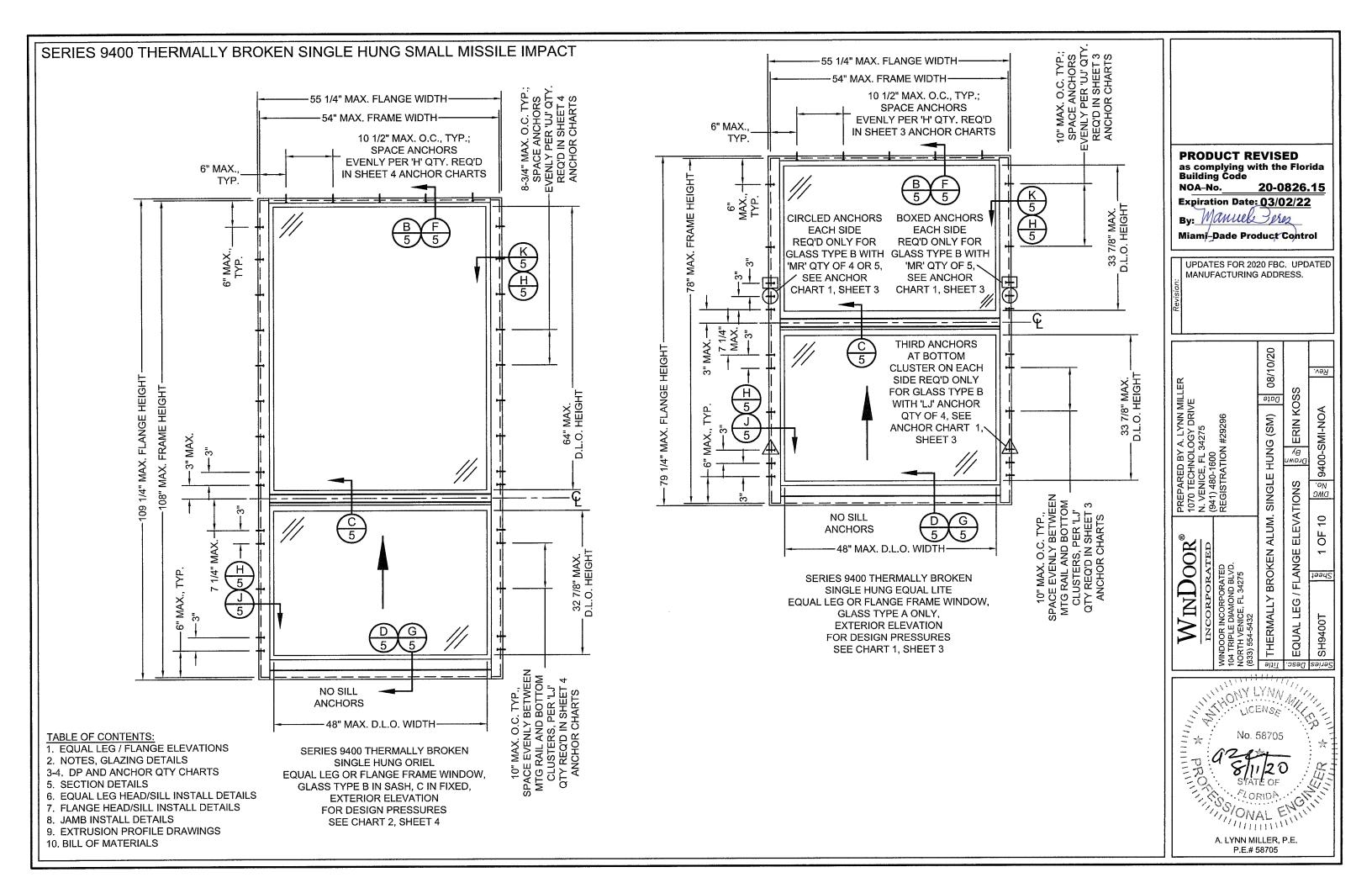
F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC 6th Edition (2017), and FBC 7th 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. Notification of Successor Engineer for WinDoor NOA documents dated August 11, 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

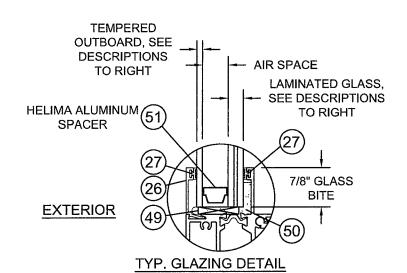
1. Notice of Acceptance No. **18-0116.22**, issued to WinDoor, Inc. for their Series "9400 Thermally Broken" Aluminum Single Hung Window - S.M.I., approved on 03/29/18 and expiring on 03/02/22.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0826.15



GENERAL NOTES

- 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.
- 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 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.
 - 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 BUILDEX 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.



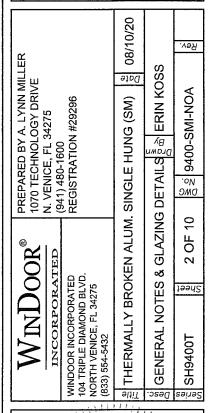
3/16" TEMPERED OUTBOARD + 3/8" AIR SPACE
WITH HELIMA ALUMINUM SPACER +
7/16" LAMINATED CONSISTING OF:
3/16" ANNEALED +
0.035" SENTRYGLAS® (CLEAR AND WHITE)
GLASS INTERLAYERS BY KURARAY AMERICA, INC. +
3/16" ANNEALED

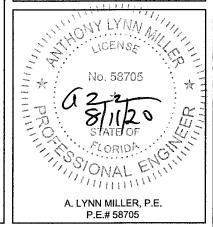
TYPE A: 1" INSULATED LAMI GLASS:

TYPE B: 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. +
0.035" 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. 20-0826.15
Expiration Date: 03/02/22
By: Manual Product Control

ADDED 1/4" ELCO ULTRACON+





| CHART 1 | . EQUAL | OUAL LITE (FLANGE OR EQ. LEG) WITH GLASS TYPE A DESIGN PRESSURES (PSF) | | | | | | | | | | | |
|-----------------|---------|--|-------------------|---------------|---------------|---------------|---------------|--|--|--|--|--|--|
| FRAME HEIGHT | | | FRAME WIDTH (in.) | | | | | | | | | | |
| (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 | | | | | | |
| 30 | W | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-143.0 | +100.0/-145.0 | +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 | | | | | | |
| 42 | 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 | | | | | | |
| 40 | 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 | | | | | | |
| 34 | W | +100.0/-154.0 | +100.0/-154.0 | +100.0/-141.0 | +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 | +100.0/-141.3 | | | | | | |
| | W | +100.0/-134.0 | +100.0/-125.0 | +100.0/-125.0 | +100.0/-125.0 | +100.0/-125.0 | +100.0/-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 | +100.0/-135.0 | | | | | | |
| 12 | W | +100.0/-134.0 | +100.0/-125.0 | +100.0/-125.0 | +100.0/-125.0 | +100.0/-125.0 | +100.0/-118.0 | | | | | | |
| 78 | C/M | +100.0/-152.6 | +100.0/-137.3 | +100.0/-130.8 | +100.0/-130.0 | +100.0/-130.0 | +100.0/-130.0 | | | | | | |
| 10 | W | +100.0/-134.0 | +100.0/-125.0 | +100.0/-125.0 | +100.0/-116.0 | +100.0/-116.0 | +100.0/-106.0 | | | | | | |

| HEIGHT | | | | | | | | | | F | RAN | 1E V | /IDT | H (in | .) | | | | | | | | | |
|--------|---|----|----|----|---|----|----|----|---|----|-----|------|------|-------|----|----|---|----|----|----|---|----|----|----|
| (in.) | | 2 | 4 | | | 3 | 0 | | | 3 | 6 | | | 4 | 2 | | | 4 | -8 | | | 5 | 4 | |
| | Н | UJ | MR | LJ | Н | UJ | MR | LJ | Н | UJ | MR | IJ | Н | UJ | MR | LJ | Н | UJ | MR | LJ | Н | UJ | MR | LJ |
| 36 | 3 | 1 | 3 | 2 | 3 | 1 | 3 | 2 | 4 | 1 | 3 | 2 | 4 | 1 | 3 | 2 | 5 | 1 | 4 | 2 | 5 | 1 | 4 | 2 |
| 42 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 4 | 2 | 3 | 2 | 4 | 2 | 4 | 2 | 5 | 2 | 4 | 2 | 5 | 2 | 5 | 3 |
| 48 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 3 | 4 | 2 | 4 | 3 | 5 | 2 | 4 | 3 | 5 | 2 | 5 | 3 |
| 54 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 3 | 4 | 2 | 4 | 3 | 5 | 2 | 5 | 3 | 5 | 2 | 5 | 3 |

3 3 3 4 3 3 3 4 4 3 4 4 3 4 4 3 4 4 5 3 5 4 5 3 5 4

4 3

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

H = HEAD

FRAME

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

3 3 3 4 3 3 3 4 4

3 3 3 4 3 3 3 4 4 3 4 4

UJ = UPPER JAMB NOT INCLUDING MEETING RAIL QTY LJ = LOWER JAMB NOT INCLUDING MEETING RAIL QTY

3 4 4 4 3 4 4 5 3 5 4 5 3

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.15
Expiration Date: 03/02/22
By: Manuel Product Control

NO CHANGES THIS SHEET.

| $WinDoor^{\oplus}$ | OOR® | PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE |
|--|-------------------|---|
| INCORPORATED | ATED | N. VENICE, FL 34275 (941) 480-1600 |
| WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432 | TED LVD. 75 | REGISTRATION #29296 |
| THERMALLY BR | OKEN ALUM | THERMALLY BROKEN ALUM. SINGLE HUNG (SM) |
| i DP & ANCHORA S LITE | GE CHARTS | b & ANCHORAGE CHARTS - EQUAL 출화 ERIN KOSS LITE |
| 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3 OF 10 | 3 OF 10 😤 🤌 9400-SMI-NOA 👸 |
| | | |



C/M = CONCRETE-MASONRY OR METAL SUBSTRATE

W = WOOD SUBSTRATE

CHART 1 ANCHORAGE QUANTITY NOTES:

- 1. MAX. ANCHOR SPACING SHOWN IN THE ELEVATIONS 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

| CHAI | CHART 2. ORIEL (FLANGE OR EQ. LEG) WITH GLASS TYPE A SASH, GLASS TYPE B FIXED, DESIGN PRESSURES (PSF) | | | | | | | | | | | | | | |
|------|---|----------|--------|--------|--------|-------------------|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| FRA | 1 | - 1 | SASH | FIXED | SUB- | FRAME WIDTH (in.) | | | | | | | | | |
| HEIG | HT HEIG | -IT | D.L.O. | D.L.O. | STRATE | | FRANE WILLIA (III.) | | | | | | | | |
| (in |) (in. | | (in.) | (in.) | | 24 | 30 | 36 | 42 | 48 | 54 | | | | |
| 66 | 24 1 | 4 | 18 | 36 7/8 | C/M | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-152.1 | | | | |
| | 27 1 | <u> </u> | 10 | 30 770 | W | +100.0/-160.0 | +100.0/-160.0 | +100.0/-140.0 | +100.0/-129.0 | +100.0/-129.0 | +100.0/-122.0 | | | | |
| 72 | 26 3 | R | 20 1/8 | 40 3/4 | C/M | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-145.9 | | | | |
| | 20 3 | ٦ | 20 1/0 | 40 3/4 | W | +100.0/-154.0 | +100.0/-149.0 | +100.0/-130.0 | +100.0/-129.0 | +100.0/-129.0 | +100.0/-119.0 | | | | |
| 78 | 28 1 | 2 | 22 1/4 | 44 5/8 | C/M | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-157.4 | +97.8/-139.5 | | | | |
| | 20 1 | | 22 1/4 | 44 5/0 | W | +100.0/-154.0 | +100.0/-134.0 | +100.0/-130.0 | +100.0/-129.0 | +100.0/-129.0 | +97.8/-117.0 | | | | |
| 84 | 30 5 | g | 24 3/8 | 48 1/2 | C/M | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-156.5 | +100.0/-142.3 | +95.5/-132.3 | | | | |
| | 30 3 | ٦ | 24 3/0 | 40 1/2 | 40 1/2 | 40 1/2 | 40 1/2 | 40 1/2 | W | +100.0/-143.0 | +100.0/-134.0 | +100.0/-130.0 | +100.0/-124.0 | +100.0/-120.0 | +95.5/-112.0 |
| 90 | 32 3 | , I | 26 1/2 | 52 3/8 | C/M | +100.0/-160.0 | +100.0/-160.0 | +100.0/-160.0 | +100.0/-143.3 | +100.0/-131.1 | +93.9/-122.1 | | | | |
| | 32 3 | | 20 1/2 | 32 3/0 | W | +100.0/-143.0 | +100.0/-134.0 | +100.0/-130.0 | +100.0/-124.0 | +100.0/-112.0 | +93.9/-103.0 | | | | |
| 96 | 34 7 | ٥ | 28 5/8 | 56 1/4 | C/M | +100.0/-160.0 | +100.0/-160.0 | +100.0/-149.8 | +100.0/-133.3 | +100.0/-123.3 | +92.4/-113.5 | | | | |
| | 34 7 | ١ | 20 3/0 | 30 1/4 | W | +100.0/-143.0 | +100.0/-134.0 | +100.0/-127.0 | +100.0/-114.0 | +100.0/-104.0 | +92.4/-95.0 | | | | |
| 10: | 2 37 | П | 30 3/4 | 60 1/8 | C/M | +100.0/-160.0 | +100.0/-150.8 | +100.0/-137.3 | +100.0/-125.7 | +100.0/-116.4 | +91.1/-107.4 | | | | |
| '0 | 2 31 | | 30 3/4 | 00 1/0 | W | +100.0/-143.0 | +100.0/-134.0 | +100.0/-118.0 | +100.0/-106.0 | +100.0/-96.0 | +88.0/-88.0 | | | | |
| 108 | 3 39 1 | ٦ | 32 7/8 | 64 | C/M | +100.0/-152.8 | +95.2/-137.5 | +90.6/-129.0 | +90.0/-118.0 | +90.0/-109.8 | +90.0/-101.0 | | | | |
| | J J9 1, | ١ | JZ 110 | 04 | W | +100.0/-143.0 | +95.2/-125.0 | +90.6/-109.0 | +90.0/-98.0 | +89.0/-89.0 | +82.0/-82.0 | | | | |

C/M = CONCRETE-MASONRY OR METAL SUBSTRATE

W = WOOD SUBSTRATE

ANCHOR QUANTITIES FOR CHART 2, SEE ORIEL ELEVATION FOR LOCATIONS

| FRAME HEIGHT | | | | | | | | | | į | FRAN | ΛΕ Λ | /IDTI | ⊣ (in. | .) | | | | | | | | | |
|-----------------|---|----|----|----|---|----|----|----|---|----|------|------|-------|--------|----|----|---|----|----|----|---|----|----|----|
| (in.) | | 2 | 4 | | | 3 | 0 | | | 36 | | | 42 | | | | 4 | 8 | | 54 | | | | |
| | Η | UJ | MR | LJ | Η | UJ | MR | LJ | Н | UJ | MR | LJ | Τ | UJ | MR | LJ | Н | UJ | MR | LJ | Н | UJ | MR | LJ |
| 66 | 3 | 4 | 3 | 2 | 3 | 4 | 3 | 2 | 4 | 4 | 3 | 2 | 4 | 4 | 4 | 2 | 5 | 4 | 5 | 3 | 5 | 4 | 5 | 3 |
| 72 | 3 | 5 | 3 | 2 | 3 | 5 | 3 | 2 | 4 | 5 | 3 | 2 | 4 | 5 | 4 | 3 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 3 |
| 78 | 3 | 5 | 3 | 2 | 3 | 5 | 3 | 2 | 4 | 5 | 3 | 3 | 4 | 5 | 4 | 3 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 3 |
| 84 | 3 | 5 | 3 | 2 | 3 | 5 | 3 | 3 | 4 | 5 | 4 | 3 | 4 | 5 | 4 | 3 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 3 |
| 90 | 3 | 6 | 3 | 3 | 3 | 6 | 3 | 3 | 4 | 6 | 4 | 3 | 4 | 6 | 4 | 3 | 5 | 6 | 5 | 3 | 5 | 6 | 5 | 3 |
| 96 | 3 | 6 | 3 | 3 | 3 | 6 | 3 | 3 | 4 | 6 | 4 | 3 | 4 | 6 | 4 | 3 | 5 | 6 | 5 | 3 | 5 | 6 | 5 | 3 |
| 102 | 3 | 7 | 3 | 3 | 3 | 7 | 3 | 3 | 4 | 7 | 4 | 3 | 4 | 7 | 4 | 3 | 5 | 7 | 5 | 3 | 5 | 7 | 5 | 3 |
| 108 | 3 | 7 | 3 | 3 | 3 | 7 | 3 | 3 | 4 | 7 | 4 | 3 | 4 | 7 | 4 | 3 | 5 | 7 | 5 | 3 | 5 | 7 | 5 | 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

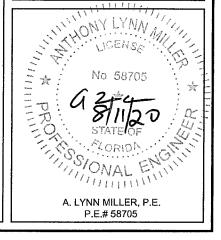
CHART 2 ANCHORAGE QUANTITY NOTES:

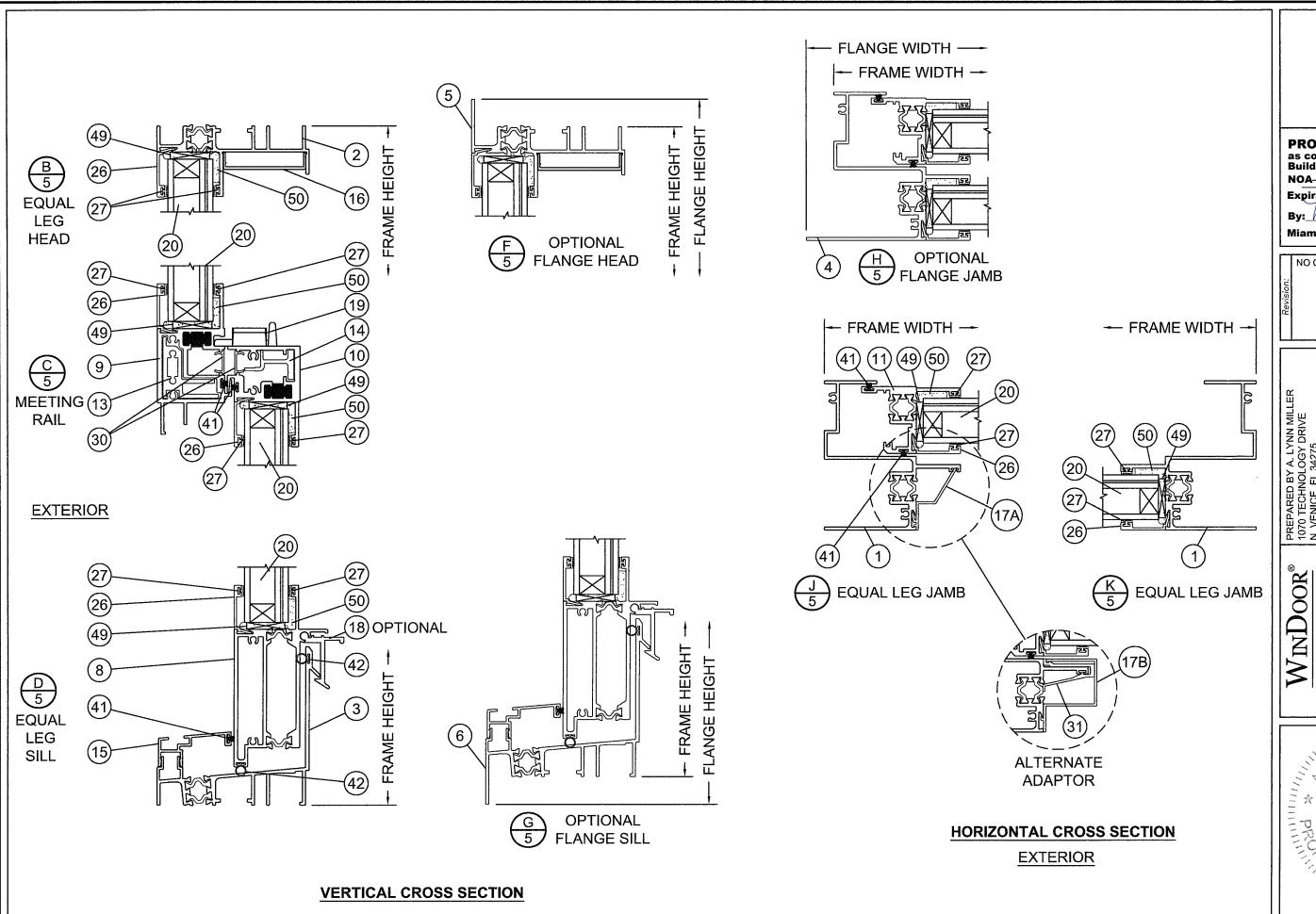
- 1. THE MAXIMUM ANCHOR SPACING SHOWN IN THE ORIEL ELEVATION ON SHEET 1 SHALL NOT BE EXCEEDED.
- 2. ANCHOR QUANTITIES IN UJ AND LJ LOCATIONS INCLUDE CORNER ANCHORS; EVENLY SPACE ANY ADDITIONAL ANCHORS REQUIRED BEYOND CORNER ANCHOR(S) BETWEEN CORNER AND MEETING RAIL ANCHORS.
- 3. REDUCE CORNER OR ON-CENTER 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. 20-0826.15
Expiration Date: 03/02/22
By: Manuel Product Control

NO CHANGES THIS SHEET.

| | WINDOOR® | PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE | |
|--------|--|---|--------|
| | INCORPORATED | N. VENICE, FL 34275 (941) 480-1600 | |
| >-25 | WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432 | REGISTRATION #29296 | |
| əliiT | THERMALLY BROKEN ALUM. SINGLE HUNG (SM) | SINGLE HUNG (SM) | /10/20 |
| .osə() | ୍ଜ୍ମ DP & ANCHORAGE CHARTS - ORIEL | ORIEL SERIN KOSS | |
| seires | ୍ଥ SH9400T କ୍ଟି 4 OF 10 | DWG 26 9400-SMI-NOA | Кеу. |
| 1 | | | |

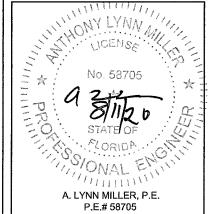


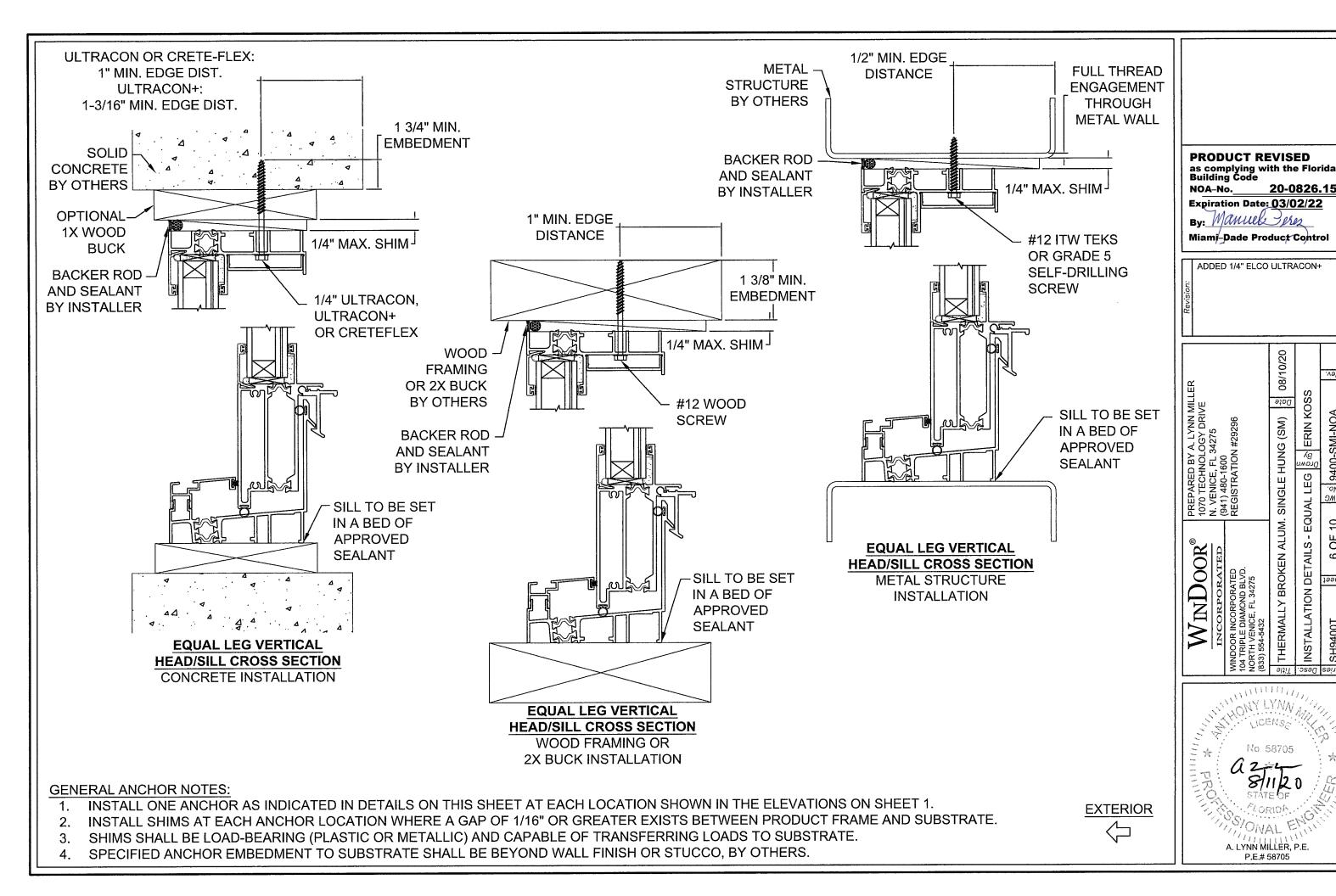


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NOA-No. 20-0826.15
Expiration Date: 03/02/22
By: Manuel Product Control

NO CHANGES THIS SHEET.

| WINDOOR | PREPARED BY A. LYNN MILLER | 1070 TECHNOLOGY DRIVE | 1070 TECHNOLOGY DRIVED | 107





08/10/20

THERMALLY BROKEN ALUM. SINGLE HUNG (SM)

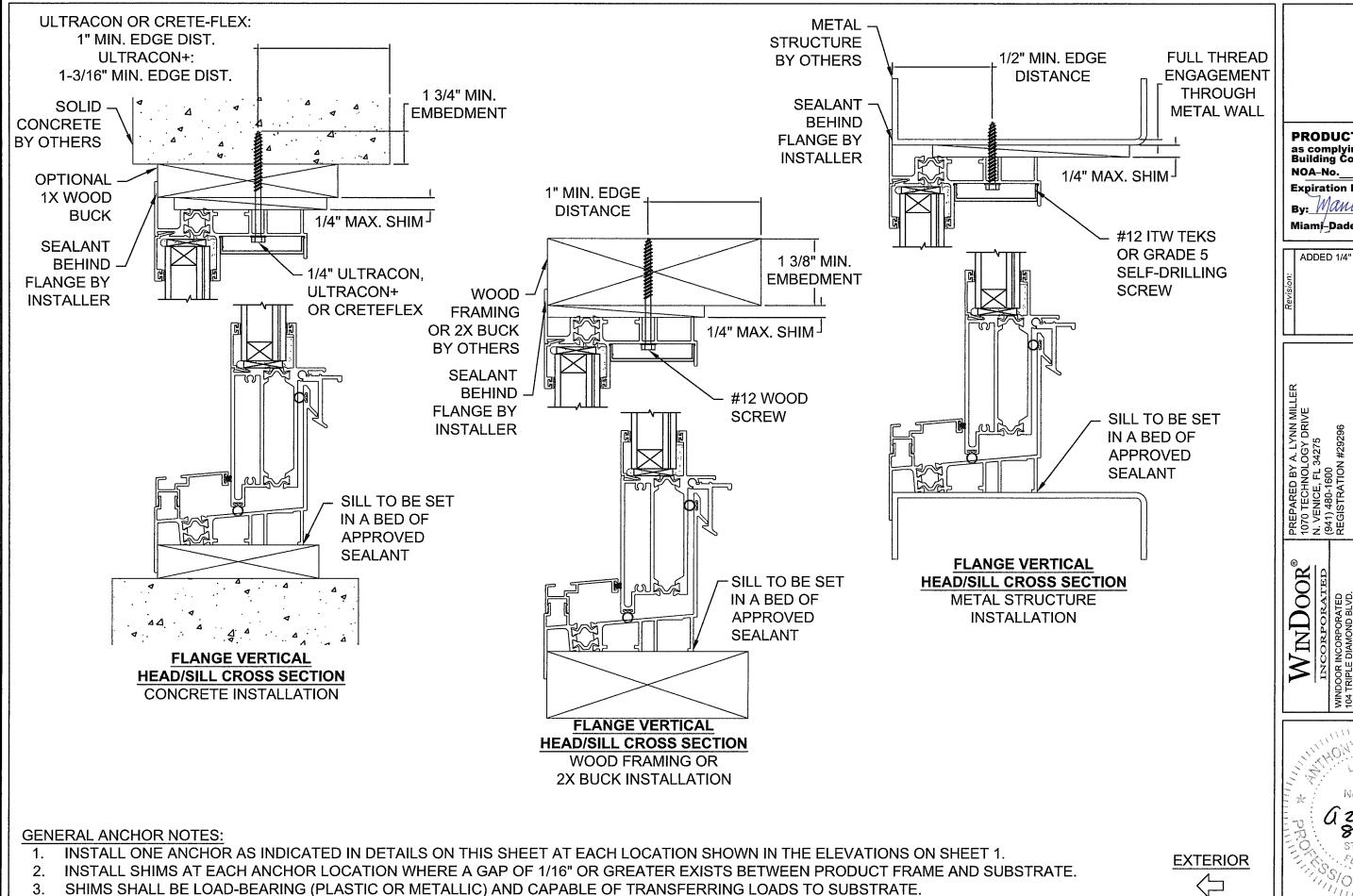
Rev.

9400-SMI-NOA

О

ERIN KOSS

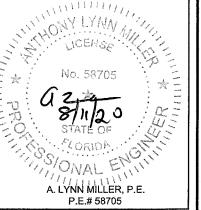
INSTALLATION DETAILS - EQUAL LEG

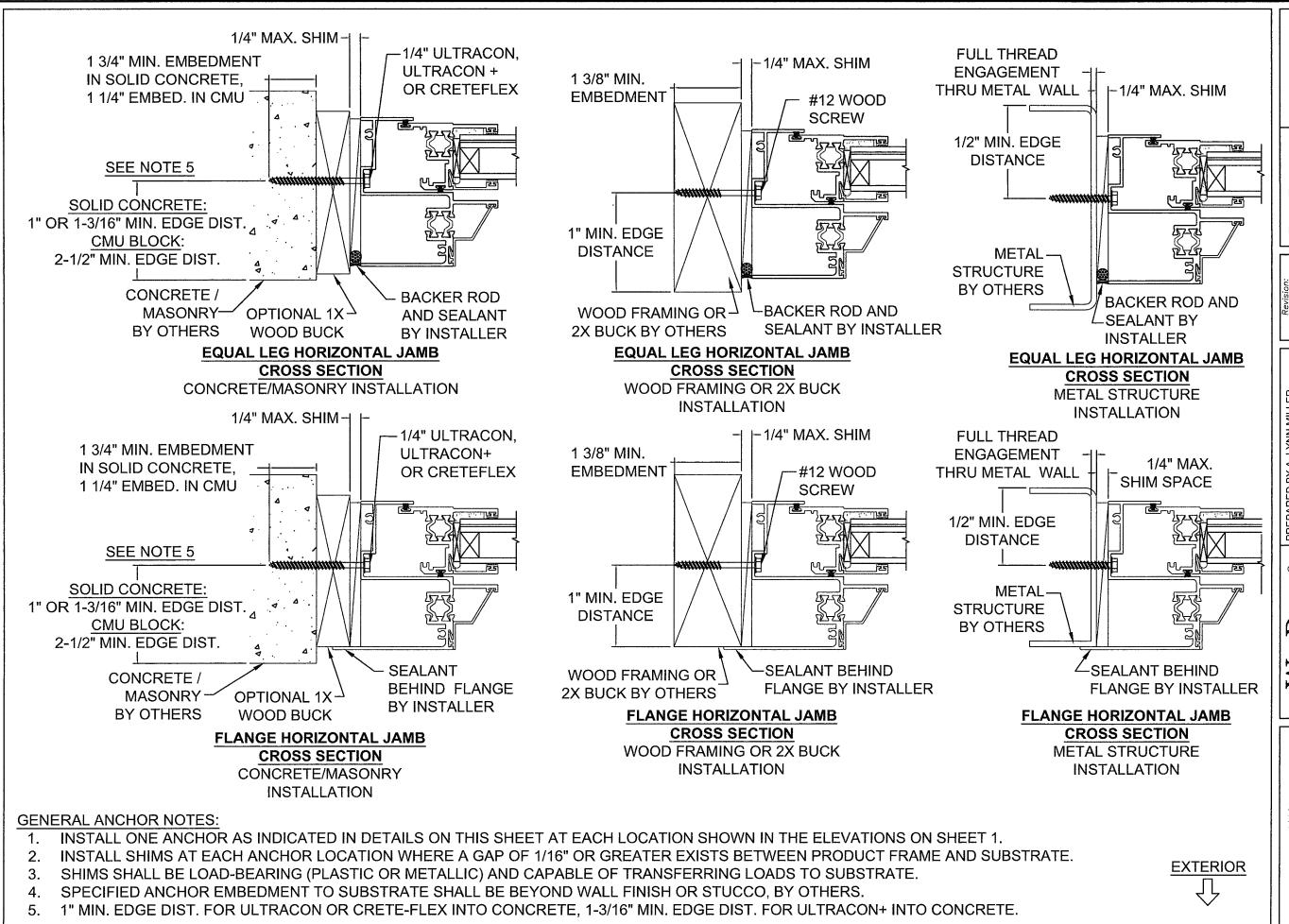


4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS.

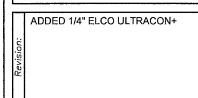
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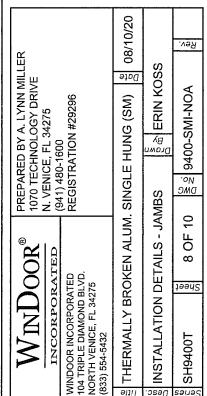
ADDED 1/4" ELCO ULTRACON+

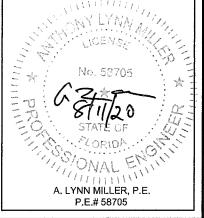


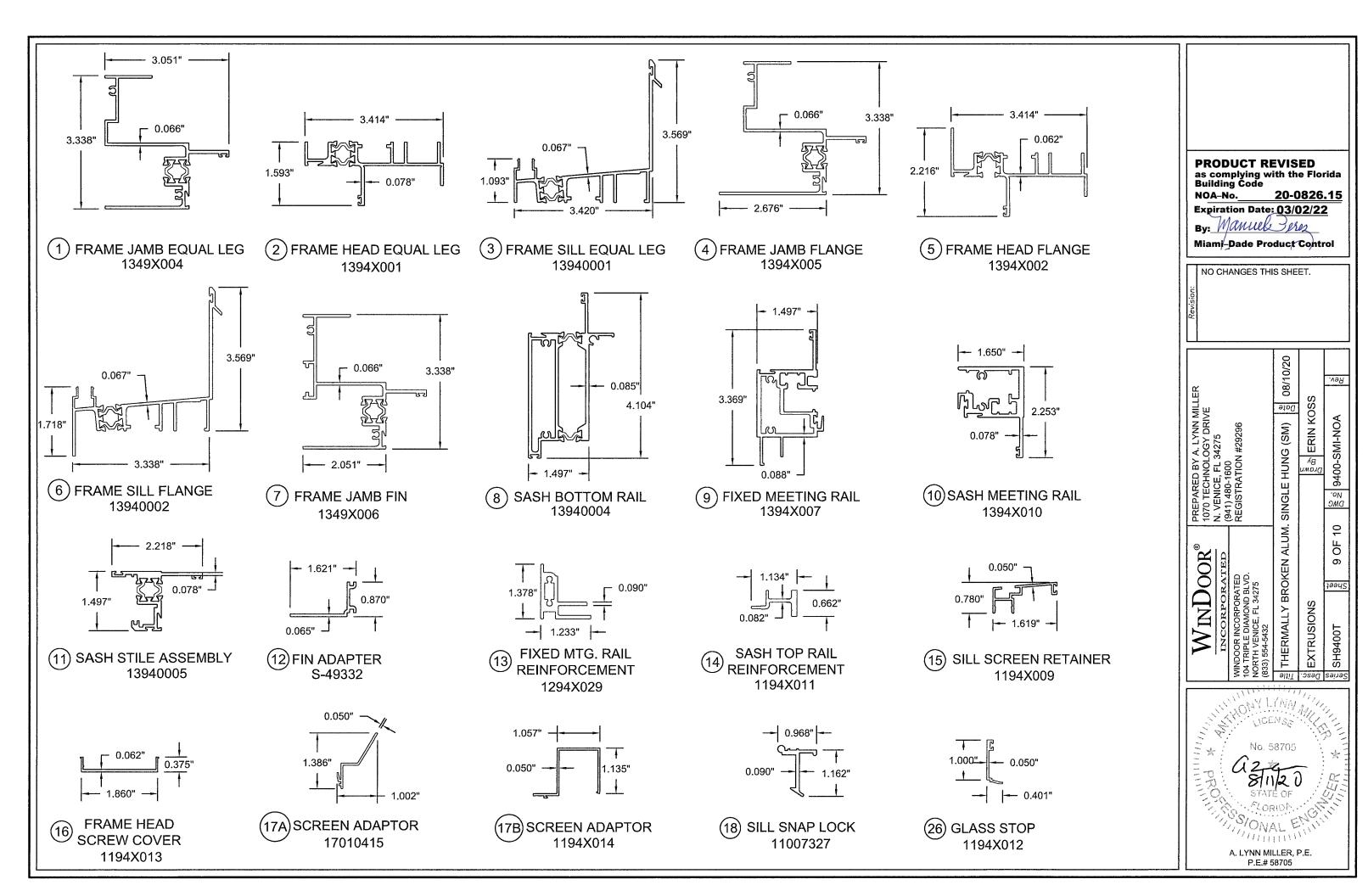


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| | | BILL OF MATERIALS | 1 |
|-----|----------------|----------------------------------|----------------------------|
| NO. | PART NUMBER | DESCRIPTION | MANUFACTURER (MAT.) |
| 1 | 1349X004 | FRAME JAMB EQUAL LEG | KEYMARK (ALUM. 6063-T6) |
| 2 | 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) |

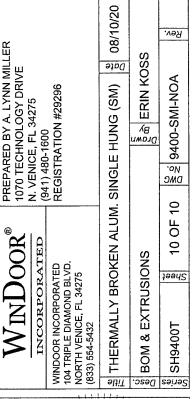
| | BILL OF MATERIALS | | | | | | | | | |
|-----|-------------------|---|-----------------------------------|--|--|--|--|--|--|--|
| NO. | PART NUMBER | DESCRIPTION | MANUFACTURER (MAT.) | | | | | | | |
| 31 | 15073 | THERMAL ISOLATOR | TEAM PLASTICS (VINYL) | | | | | | | |
| 32 | | ULTRA LIFT SPIRAL 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 L | OCK 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 / | 4 | | | | | | | |
| 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) | | | | | | | |

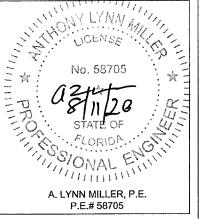
NOTE: SPACER MATERIAL TENSILE ULTIMATE STRENGTH FTU= 17KSI TENSILE YIELD STRENGTH FTY= 12KSI

PRODUCT REVISED
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By: Manual Pray

Miami-Dade Product Control

ADDED DOW 791 & DOW 983 TO BOM.

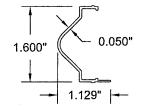




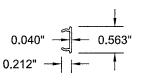
0.575" 1.600" - 0.050" - 1.099" -

25) THERMAL STRUT 263400

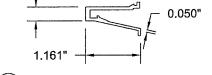




29 BALANCE COVER 15070



30 DEBRIDGE COVER 15072



(31) THERMAL ISOLATOR 15073