

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474

www.miamidade.gov/building

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc. **1070 Technology Drive** 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 "HR7710A" Aluminum Horizontal Roller Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 7710NOA-1, titled "Aluminum Horiz. Roller Install (LM)", sheets 1 through 19 of 19, dated 06/30/18, with revision A dated 03/11/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

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

This NOA revises NOA No. 18-0627.01 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. 20-0406.04 **Expiration Date: August 23, 2023 Approval Date: August 27, 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. 18-0627.01)
- 2. Drawing No. **7710NOA-1**, titled "Aluminum Horiz. Roller Install (LM), sheets 1 through 19 of 19, dated 06/30/18, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

(Submitted under NOA No. 18-0627.01)

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-18-7891**, dated 06/06/18, signed and sealed by Idalmis Ortega, P.E.

(Submitted under NOA No. 18-0627.01)

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-18-7891.01**, dated 07/03/18, signed and sealed by Idalmis Ortega, P.E. (Submitted under NOA No. 18-0627.01)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 6th **Edition (2017)**, dated 06/18/18 and updated on 07/25/18, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
 - (Submitted under NOA No. 18-0627.01)
- 2. Glazing complies with ASTM E1300-09

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0406.04

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- D. QUALITY ASSURANCE
 - 1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 17-1114.14 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/18/18, expiring on 07/08/19.
- 2. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

- Statement letter of conformance to **FBC** 6th **Edition (2017)**, dated July 25, 2018, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (Submitted under NOA No. 18-0627.01)
- 2. Statement letter of no financial interest, dated July 25, 2018, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (Submitted under NOA No. 18-0627.01)
- 3. Proposal No. **18-0289** issued by the Product Control Section, dated 02/20/18, signed by Manuel Perez, P.E (Submitted under NOA No. 18-0627.01)

G. OTHERS

1. None.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0406.04

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **7710NOA-1**, titled "Aluminum Horiz. Roller Install (LM), sheets 1 through 19 of 19, dated 06/30/18, with revision A dated 03/11/20, 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. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: **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) dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC** 6th **Edition (2017)**, prepared by manufacturer, dated 06/18/18, revised on 07/25/18 and updated to the **FBC** 7th **Edition (2020)** on 04/02/20, signed and sealed by Anthony Lynn Miller, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
- 2. 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.

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0406.04

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

F. STATEMENTS

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

G. OTHERS

1. Notice of Acceptance No. **18-0627.01**, issued to PGT Industries, Inc. for their Series "HR7710A" Aluminum Horizontal Roller Window - L.M.I. approved on 08/23/18 and expiring on 08/23/23.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0406.04

SERIES HR7710A IMPACT RESISTANT HORIZONTAL ROLLER WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ. THE OUTBOARD LITE (CAP) MUST BE TEMPERED.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER, 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. SILL ANCHORS MUST BE SEALED, OVERALL SEALING & FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) 1/4" MAX. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE, USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

7) DESIGN PRESSURES:

- A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
- C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

10) REFERENCES: TEST REPORTS FTL 18-7891 & 18-7891.01; ELCO ULTRACON NOA; DEWALT/ELCO CRETEFLEX NOA; DEWALT ULTRACON+ NOA; NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS & ALUMINUM DESIGN MANUAL

11) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

TABLE 1:

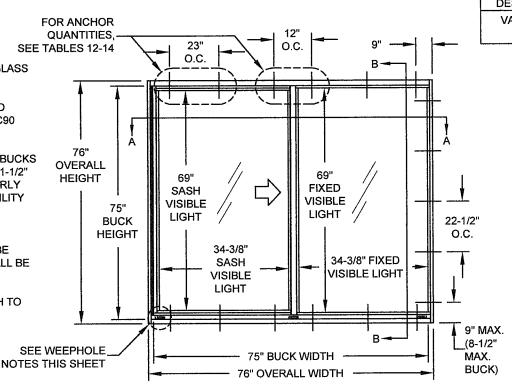
| | | DF | Table | ∌ # | Anch | or Ta | ble # |
|---------------|---|-----|-------|-----|------|-------|-------|
| Glass Type | Description (Listed from Exterior to Interior) | хо | OX | хох | XO/ | OX | XOX |
| Type | | STD | HD | STD | STD | HD | STD |
| 1 | 1/8"AN, .090" PVB, 1/8" AN | 2 | - | 7 | 12 | - | 15 |
| 2 | 1/8" HS, .090" PVB, 1/8" HS | 3 | - | 8 | 12 | - | 16 |
| 3 | 3/16" AN, .090" PVB, 3/16" AN | 3 | 1 | 8 | 12 | - | 16 |
| 4 | 13/16" LIG: 1/8" AN CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN | 4 | 1 | 7 | 12 | - | 15 |
| 5 | 13/16" LIG: 1/8" TP CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN | 3 | - | 7 | 12 | - | 15 |
| 6 | 13/16" LIG: 3/16" AN CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN | 3 | - | 9 | 12 | - | 16 |
| 7 | 13/16" LIG: 3/16" TP CAP, AIRSPACE, 1/8" AN, .090" PVB, 1/8" AN | 3 | - | 9 | 12 | - | 16 |
| 8 | 3/16" AN, .090" SG, 3/16" AN | 5 | 6 | 10 | 13 | 14 | 17 |
| 9 | 3/16" HS, .090" SG, 3/16" HS | 5 | 6 | 11 | 13 | 14 | 18 |
| 10 | 13/16" LIG: 1/8" AN CAP, AIRSPACE, 3/16" AN, .090" SG, 3/16" AN | 5 | 6 | 10 | 13 | 14 | 17 |
| 11 | 13/16" LIG: 1/8" TP CAP, AIRSPACE, 3/16" AN, .090" SG, 3/16" AN | 5 | 6 | 10 | 13 | 14 | 17 |
| 12 | 13/16" LIG: 1/8" AN CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS | 5 | 6 | 11 | 13 | 14 | 18 |
| 13 | 13/16" LIG: 1/8" TP CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS | 5 | 6 | 11 | 13 | 14 | 18 |
| 14 | 13/16" LIG: 3/16" AN CAP , AIRSPACE, 1/8" HS, .090" SG, 1/8" HS | 5 | 6 | 11 | 13 | 14 | 18 |
| 15 | 13/16" LIG: 3/16" TP CAP, AIRSPACE, 1/8" HS, .090" SG, 1/8" HS | 5 | 6 | 11 | 13 | 14 | 18 |

SG= KURARAY SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC. PVB = KURARAY TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.

AN = ANNEALED

HS = HEAT-STRENGTHENED

TP = TEMPERED



TYP. FLANGE XO ELEVATION (OX SIM.)

MAX. DIMENSIONS ALLOWED SHOWN

DESIGN PRESSURE RATING IMPACT RATING LARGE & SMALL MISSILE VARIES PER GLASS TYPE IMPACT RESISTANT SEE TABLES 2-11

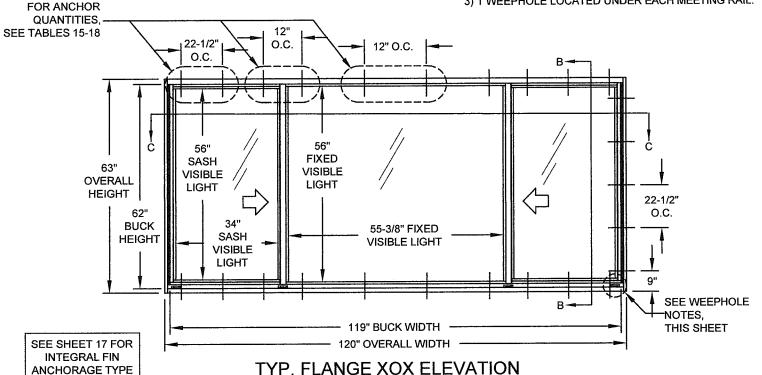
USER INSTRUCTIONS:

- 1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT FROM ASCE 7.
- 2) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLES 2-11. IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.
- 3) DETERMINE THE ANCHOR QUANTITY FROM **TABLES 12-18.**
- 4) INSTALL AS PER SHEET 15 FOR FLANGE INSTALLATION, SHEET 16 FOR EQUAL LEG INSTALLATION OR SHEET 17 FOR INTEGRAL FIN INSTALLATION.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (FLANGE, INTEGRAL FIN OR EQUAL LEG/BOX).

WEEPHOLE NOTES:

- 1) 1-5/8" X .300" WITH PLASTIC BAFFLE.
- 2) 1 WEEPHOLE LOCATED AT 4" FROM EACH END.
- 3) 1 WEEPHOLE LOCATED UNDER EACH MEETING RAIL



MAX. DIMENSIONS ALLOWED SHOWN

CODES / STANDARDS USED:

- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-16
- AISC 360-16

& SPACING

GENERAL NOTES. **ELEVATIONS** GLASS TYPES TABLE. DESIGN PRESSURES. 2-9 ANCHOR QUANTITIES. .10-14 INSTALLATION / ANCHOR SPECS. . 15-17 EXTRUSION PROFILES. 18 CORNER ASSEMBLY. 19 PARTS LIST.. .19

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.04

Expiration Date: 08/23/2023

Manuel Peres Miami-Dade Product Control

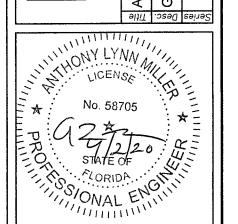
A) UPDATED TO FBC 2020, REVISED ANCHOR TYPE TABLE.

JR - 03/11/20

JENS ROSOWSKI 06/30/18 DRIVE Rev. 7710NOA-1 TECHNOLOGY I ENICE, FL 34275 Date N. VENICE, FL ((941) 480-1600 (LM) УB ROLLER INSTALL. .oN 1070 J DMC ELEVATION P ⋖ ALUMINUM HORIZ. GENERAL NOTES

Sheet

HR-7710A



A. LYNN MILLER, P.E.

TABLE 2:

| Width | Design | Pressur | e (lbs/ft² |) for XO | & OX W | indows | | ass Type: eting Rail: | | |
|--------|-----------|-------------|------------|-----------|---------|-----------|---------|--------------------------|---------|-----------|
| VVIGUI | 21-1/8" O | verall Hgt. | 37" Ove | rall Hgt. | 49" Ove | rall Hgt. | 55" Ove | rall Hgt. | 63" Ove | rall Hgt. |
| 20" | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 |
| 25" | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 |
| 37" | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 |
| 49" | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 |
| 61" | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 |
| 67" | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 |
| 74" | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +65.0 | -65.0 | +63.3 | -63.3 |

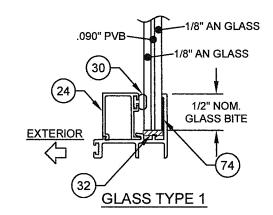
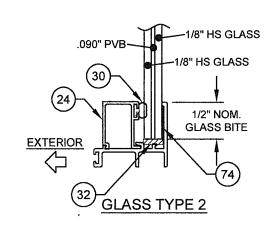
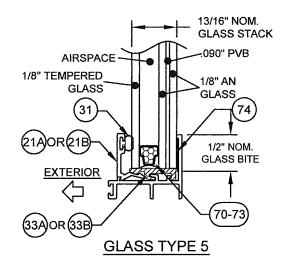


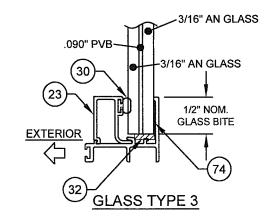
TABLE 3:

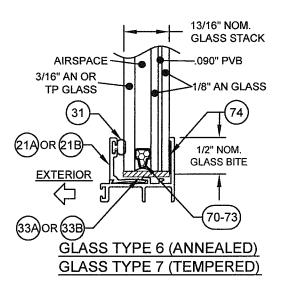
| Overall | Design | Pressur | e (lbs/ft ² | ²) for XO | & OX W | indows | | • • | 2, 3, 5, 6, | 7 |
|---------|-----------|---------|------------------------|-----------------------|---------|--------|-------|--------------------------|---------------------|-----------|
| Width | 21-1/8" O | | | rall Hgt. | 49" Ove | | | eting Rail: rall Hgt. | Standard 63" Ove | rall Hgt. |
| 20" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 25" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 37" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 49" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 61" | +65.0 | -80.0 | +65.0 | -80.0 | +65,0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 67" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -79.2* |
| 74" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -72.2* |

*-80.0 FOR GLASS TYPES 2, 3, 6 & 7









PRODUCT REVISED

as complying with the Florida Building Code 20-0406.04

Expiration Date: 08/23/2023

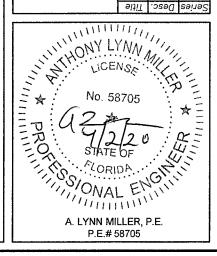
By: Manuel Perez Miami-Dade Product Control

A) NO CHANGES THIS SHEET.

JR - 03/11/20

NOA-No.

e 06/30/18 JENS ROSOWSKI DRIVE Rev. 1070 TECHNOLOGY DI N. VENICE, FL 34275 (941) 480-1600 7710NOA-1 ALUMINUM HORIZ. ROLLER INSTALL. (LM))гами Ву No. DESIGN PRESSURE TABLES PF HR-7710A



NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

TABLE 4:

| Width _ | Design | Pressu | e (lbs/ft | ²) for XO | & OX W | /indows | | lass Type: eting Rail: | 4 Standard | |
|---------|-----------|-------------|-----------|-----------------------|---------|-----------|---------|---------------------------|---------------|-----------|
| | 21-1/8" O | verall Hgt. | 37" Ove | rall Hgt. | 49" Ove | rall Hgt. | 55" Ove | rall Hgt. | 63" Ove | rall Hgt. |
| 20" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 25" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 37" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 49" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 61" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -76.8 |
| 67" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -71.3 |
| 74" | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -77.1 | +64.9 | -64.9 |

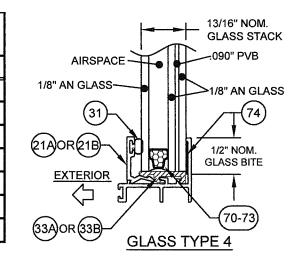


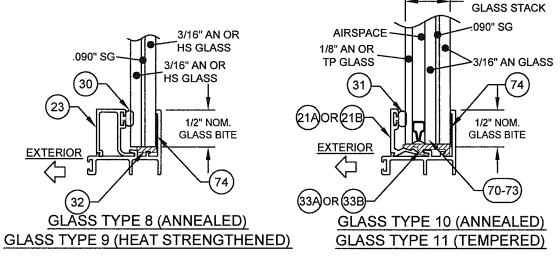
TABLE 5:

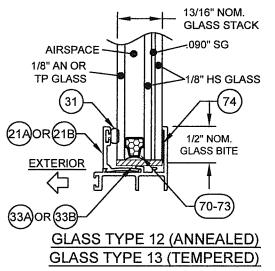
| Overall Width | Design | Pressur | e (lbs/ft | ²) for XO | & OX W | indows | | Glass Types: 8 thru 15 Meeting Rail: Standard | | | | | |
|------------------|-----------|-------------|-----------|-----------|-----------|---------|------------|---|-----------|---------|--|--|--|
| VVIGUI | 21-1/8" O | verall Hgt. | 37" Ove | rall Hgt. | rall Hgt. | 55" Ove | erall Hgt. | 63" Ove | rall Hgt. | | | | |
| 20" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | | |
| 25" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | | |
| 37" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | | |
| 49" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | | |
| 61" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -101.9* | | | |
| 67" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -95.7* | | | |
| 74" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -90.0* | | | |

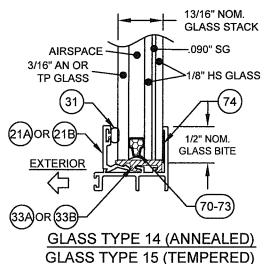
*-110.0 FOR GLASS TYPES 9, 12, 13, 14 & 15

MAY NOT BE USED WITH INTEGRAL FIN • FRAMES

GLASS TYPES 8 - 15







13/16" NOM.

PRODUCT REVISED as complying with the Florida Building Code 20-0406.04 NOA-No.

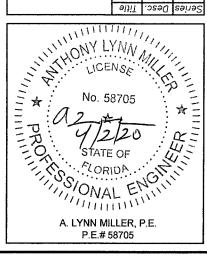
Expiration Date: <u>08/23/2023</u> By: Manuel Peres

Miami-Dade Product Control

A) NO CHANGES THIS SHEET.

JR - 03/11/20

06/30/18 JENS ROSOWSKI DRIVE Rev. 1070 TECHNOLOGY C N. VENICE, FL 34275 (941) 480-1600 7710NOA-1 Date (ΓM) Drawn By ROLLER INSTALL. No. TABLES PF က DESIGN PRESSURE ALUMINUM HORIZ. HR-7710A



NOTES:

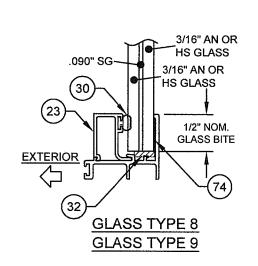
1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

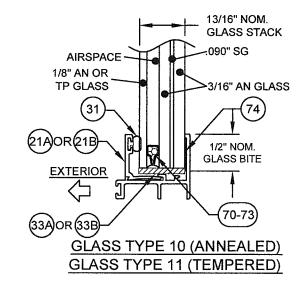
| т. | D1 | _ | c. |
|----|----|---|----|
| IΜ | ומ | _ | D. |

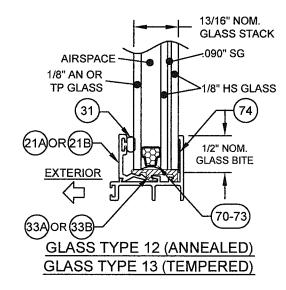
| Overall Width | | Design | Pressu | re (lbs/ft ² | ²) for XO | & OX W | /indows | | Glass Types: 8 thru 15 Meeting Rail: Heavy-Duty | | | | | |
|------------------|-----------|-------------|---------|-------------------------|-----------------------|-----------|---------|------------|---|-----------|---------|-----------|--|--|
| VVIGET | 21-1/8" O | verall Hgt. | 37" Ove | rall Hgt. | 49" Ove | rall Hgt. | 55" Ove | erall Hgt. | 63" Ove | rall Hgt. | 76" Ove | rall Hgt. | | |
| 20" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | |
| 25" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | |
| 37" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | |
| 49" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | |
| 61" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | | |
| 67" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -109.8* | | |
| 76" | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -105.8* | | |

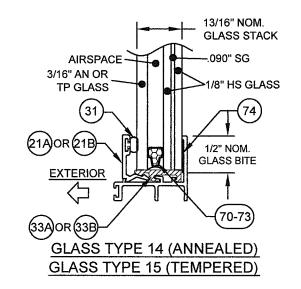
GLASS TYPES 8 - 15 MAY NOT BE USED WITH INTEGRAL FIN FRAMES

*-110.0 FOR GLASS TYPES 8-13 & 15









PRODUCT REVISED as complying with the Florida Building Code

20-0406.04 NOA-No. Expiration Date: <u>08/23/2023</u>

By: Manuel Perez Miami-Dade Product Control

A) NO CHANGES THIS SHEET.

JR - 03/11/20

Date 06/30/18 JENS ROSOWSKI DRIVE Rev. 1070 TECHNOLOGY D N. VENICE, FL 34275 (941) 480-1600 7710NOA-1 ALUMINUM HORIZ. ROLLER INSTALL. (LM)

SOLUTION PRESSURE TABLES

HR-7710A

RESIGN PRESSURE TABLES

RESI



No. 58705

No. 58705

STATE OF

CORIDA

LYNN MILITARY

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

NOTES:

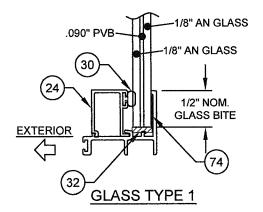
1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

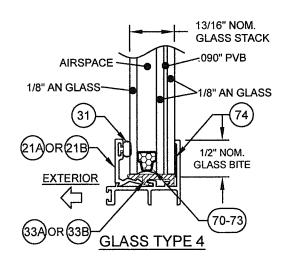
TABLE 7:

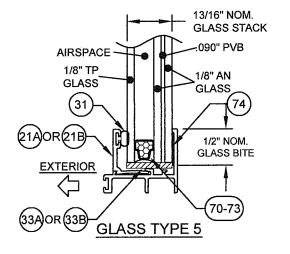
| TABLE 7: | | | | | | | | | | | | | | |
|------------------|-----------------------|-----------------|-----------|-------------|---------|-----------|------------------------|-----------|---------|-----------|---------|------------------------|---------------------|-------------------|
| Overall Width | Sash Configuration | Sash Width | | Design P | ressur | e (lbs/f | t ²) for X | OX Wii | ndows | | | s Types: ting Rail: | 1, 4, 5 Standard | l |
| VVIGUI | Comiguration | Range (in) | 21-1/8" O | verall Hgt. | 29" Ove | rall Hgt. | 37" Ove | rall Hgt. | 49" Ove | rall Hgt. | 55" Ove | rall Hgt. | 63" Ove | rall Hgt. |
| 44" | 1/4-1/2-1/4 | 12.038 - 12.052 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| 44 | 1/3-1/3-1/3 | 12.053 - 15.008 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| 49" | 1/4-1/2-1/4 | 12.038 - 13.302 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| 49 | 1/3-1/3-1/3 | 13.303 - 16.675 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| 53-1/8" | 1/4-1/2-1/4 | 12.038 - 14.333 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| 33-1/0 | 1/3-1/3-1/3 | 14.334 - 18.050 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| 61" | 1/4-1/2-1/4 | 12.038 - 16.302 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| 61 | 1/3-1/3-1/3 | 16.303 - 20.675 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| | 1/4-1/2-1/4 | 12.038 - 20.052 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +51.9 | -51.9 |
| 76" | custom | 20.053 - 22.185 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| | 1/3-1/3-1/3 | 22.186 - 25.675 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| | 1/4-1/2-1/4 | ** - 24.082 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +58.2 | -58.2 | +53.9 | -53.9 | +48.7 | -48.7 |
| 92-1/8" | custom | 24.083 - 26.185 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +57.8 | -57.8 |
| | 1/3-1/3-1/3 | 26.186 - 31.038 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 |
| | 1/4-1/2-1/4 | ** - 25.302 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +58.2 | -58.2 | +53.9 | -53.9 | +48.7 | -4 8.7 |
| 97" | custom | 25.303 - 27.185 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +55.5 | -55.5 |
| | custom | 27.186 - 31.038 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +58.6 | -58.6 |
| | 1/4-1/2-1/4 | ** - 28.302 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +58.2 | -58.2 | +53.9 | -53.9 | +48.7 | -48.7 |
| 109" | custom | 28.303 - 29.185 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +59.8 | -59.8 | +51.3 | -51.3 |
| | custom | 29.186 - 31.038 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +52.5 | -52.5 |
| 120" | 1/4-1/2-1/4 | ** - 31.038 | +60.0 | -60.0 | +60.0 | -60.0 | +60.0 | -60.0 | +58.2 | -58.2 | +53.9 | -53.9 | +48.7 | -48.7 |



^{**} MIN. SASH WIDTH (FIN & EQUAL-LEG WINDOWS) = OVERALL WIDTH - 56.924



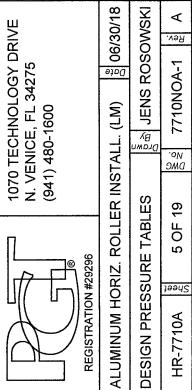


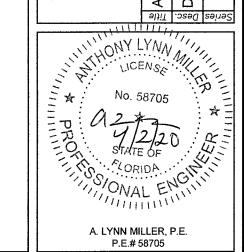


PRODUCT REVISED as complying with the Florida Building Code 20-0406.04 NOA-No. Expiration Date: 08/23/2023

By: Manuel Perez Miami-Dade Product Control

A) NO CHANGES THIS SHEET. JR - 03/11/20



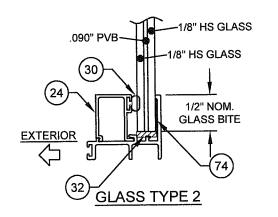


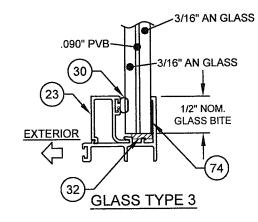
Series Desc. Title

NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN, FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

| TABLE 8: | 1 | | Γ | | | | | | | | Glas | s Types: | 2 3 | |
|----------|---------------|-----------------|-----------|-------------|---------|-----------|------------------------|-----------|---------|-----------|---------|-----------|----------|-----------|
| Overall | Sash | Sash Width | |)esign F | ressur | e (lbs/f | t ²) for X | (OX Wi | ndows | | | | Standard | |
| Width | Configuration | | 21-1/8" O | verall Hgt. | 29" Ove | rall Hgt. | 37" Ove | rall Hgt. | 49" Ove | rall Hgt. | 55" Ove | rall Hgt. | 63" Ove | rall Hgt. |
| 4.40 | 1/4-1/2-1/4 | 12.038 - 12.052 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 44" | 1/3-1/3-1/3 | 12.053 - 15.008 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 40! | 1/4-1/2-1/4 | 12.038 - 13.302 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 49" | 1/3-1/3-1/3 | 13.303 - 16.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 50.4400 | 1/4-1/2-1/4 | 12.038 - 14.333 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 53-1/8" | 1/3-1/3-1/3 | 14.334 - 18.050 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 0411 | 1/4-1/2-1/4 | 12.038 - 16.302 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 61" | 1/3-1/3-1/3 | 16.303 - 20.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | 12.038 - 20.052 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 76" | custom | 20.053 - 22.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/3-1/3-1/3 | 22.186 - 25.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | ** - 24.082 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 92-1/8" | custom | 24.083 - 26.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/3-1/3-1/3 | 26.186 - 31.048 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | ** - 25.302 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 97" | custom | 25.303 - 27.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/3-1/3-1/3 | 27.186 - 32.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | ** - 28.302 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 109" | custom | 28.303 - 30.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/3-1/3-1/3 | 30.186 - 36.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | ** - 29.463 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 113-5/8' | custom | 29.464 - 33.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/3-1/3-1/3 | 33.186 - 38.222 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | ** - 31.052 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 120" | custom | 31.053 - 33.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | custom | 33.186 - 38.222 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |





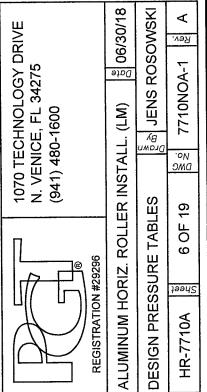
Expiration Date: 08/23/2023 By: Manuel Perez Miami-Dade Product Control

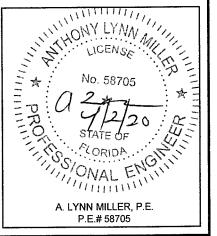
20-0406.04

PRODUCT REVISED as complying with the Florida Building Code

NOA-No.

A) NO CHANGES THIS SHEET. JR - 03/11/20





Series Desc. Title

** MIN. SASH WIDTH (FLANGE WINDOWS) = OVERALL WIDTH - 58.556

** MIN. SASH WIDTH (FIN & EQUAL-LEG WINDOWS) = $\frac{\text{OVERALL WIDTH - }57,556}{2}$

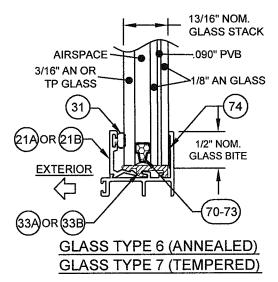
NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

TABLE O

| TABLE 9: | | | | | | | | | | | | | | |
|------------------|-----------------------|-----------------|-----------|-------------|---------|-----------|-------------------------|-----------|---------|-----------|---------|------------------------|------------------|--------------------|
| Overall Width | Sash Configuration | Sash Width | ı | Design F | Pressui | re (lbs/f | ft ²) for X | (OX Wi | ndows | - · · · · | | s Types: ting Rail: | 6, 7 Standard | |
| VVIGUI | Comiguration | Range (in) | 21-1/8" O | verall Hgt. | 29" Ove | rall Hgt. | 37" Ove | rall Hgt. | 49" Ove | rall Hgt. | 55" Ove | rall Hgt. | 63" Ove | rall Hgt. |
| 44" | 1/4-1/2-1/4 | 12.038 - 12.052 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 44 | 1/3-1/3-1/3 | 12.053 - 15.008 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 49" | 1/4-1/2-1/4 | 12.038 - 13.302 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 49 | 1/3-1/3-1/3 | 13.303 - 16.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 53-1/8" | 1/4-1/2-1/4 | 12.038 - 14.333 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 33-1/6 | 1/3-1/3-1/3 | 14.334 - 18.050 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 61" | 1/4-1/2-1/4 | 12.038 - 16.302 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| 61 | 1/3-1/3-1/3 | 16.303 - 20.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | 12.038 - 20.052 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -72.9 ^B |
| 76" | custom | 20.053 - 22.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/3-1/3-1/3 | 22.186 - 25.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | ** - 24.082 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -74.1 ^A | +65.0 | -67.5 ^B |
| 92-1/8" | custom | 24.083 - 26.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/3-1/3-1/3 | 26.186 - 31.048 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | ** - 25.302 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -74.1 ^A | +65.0 | -67.5 ^B |
| 97" | custom | 25.303 - 27.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -77.9 |
| | 1/3-1/3-1/3 | 27.186 - 32.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 |
| | 1/4-1/2-1/4 | ** - 28.302 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -74.1 ^A | +65.0 | -67.5 ^B |
| 109" | custom | 28.303 - 30.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -72.0 |
| | 1/3-1/3-1/3 | 30.186 - 36.675 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -75.8 |
| | 1/4-1/2-1/4 | ** - 29.463 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -74.1 ^A | +65.0 | -67.5 ^B |
| 113-5/8" | custom | 29.464 - 33.185 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -70.6 |
| | 1/3-1/3-1/3 | 33.186 - 38.222 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -76.9 |
| | 1/4-1/2-1/4 | ** - 31.052 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -74.1 ^A | +65.0 | -67.5 ^B |
| 120" | custom | 31.053 - 33.185 | | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -75.7 | +65.0 | -68.4 |
| | custom | 33.186 - 38.222 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -80.0 | +65.0 | -71.3 |

^{**} MIN. SASH WIDTH (FLANGE WINDOWS) = OVERALL WIDTH - 58.556



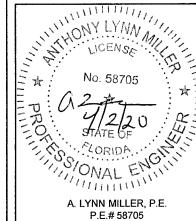
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.04 **Expiration Date: 08/23/2023** By: Manuel Peres

Miami-Dade Product Control A) NO CHANGES THIS SHEET.

JR - 03/11/20

⊕ 06/30/18 JENS ROSOWSKI DRIVE Rev. 7710NOA-1 1070 TECHNOLOGY D N. VENICE, FL 34275 (941) 480-1600 ALUMINUM HORIZ. ROLLER INSTALL. (LM))rawn By DWG. DESIGN PRESSURE TABLES 9 Я HR-7710A

Series Desc. Title



A-80.0 FOR GLASS TYPE 7

^B-75.0 FOR GLASS TYPE 7

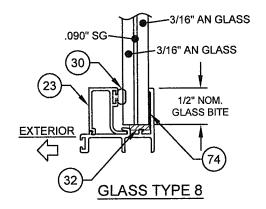
NOTES:

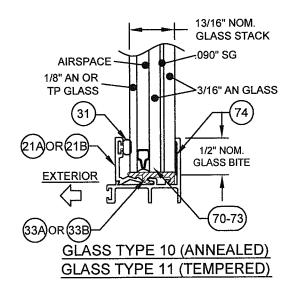
1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

^{**} MIN. SASH WIDTH (FIN & EQUAL-LEG WINDOWS) = $\frac{\text{OVERALL WIDTH - }57.556}{2}$

| TAD | 40. | |
|-----|---------|--|
| TAB | HU: | |

| TABLE 10: | | | | | | | | | | | | | | |
|-----------|---------------|-----------------|-----------|----------|----------|-----------|------------------------|--------|---------|--------|---------|--------|-----------|------------|
| Overall | Sash | Sash | r | Design F | Pressiii | re (lhs/f | t ²) for X | OX Wi | ndows | | | | 8, 10, 11 | |
| Width | Configuration | Width | | | | • | | | | | | | Standard | |
| | | Range (in) | 21-1/8" O | | | rall Hgt. | 37" Ove | | 49" Ove | | 55" Ove | | | erall Hgt. |
| 44" | 1/4-1/2-1/4 | 12.038 - 12.052 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/3-1/3-1/3 | 12.053 - 15.008 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 49" | 1/4-1/2-1/4 | 12.038 - 13.302 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 45 | 1/3-1/3-1/3 | 13.303 - 16.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 53-1/8" | 1/4-1/2-1/4 | 12.038 - 14.333 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 33-1/6 | 1/3-1/3-1/3 | 14.334 - 18.050 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 61" | 1/4-1/2-1/4 | 12.038 - 16.302 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 01 | 1/3-1/3-1/3 | 16.303 - 20.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/4-1/2-1/4 | 12.038 - 20.052 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -99.2 |
| 76" | custom | 20.053 - 22.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/3-1/3-1/3 | 22.186 - 25.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/4-1/2-1/4 | ** - 24.082 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -101.0 | +80.0 | -90.5 |
| 92-1/8" | custom | 24.083 - 26.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -105.2 |
| | 1/3-1/3-1/3 | 26.186 - 31.048 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -102.3 |
| | 1/4-1/2-1/4 | ** - 25.302 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -101.0 | +80.0 | -90.5 |
| 97" | custom | 25.303 - 27.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -102.7 |
| | 1/3-1/3-1/3 | 27.186 - 32.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -98.9 |
| | 1/4-1/2-1/4 | ** - 28.302 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -101.0 | +80.0 | -90.5 |
| 109" | custom | 28.303 - 30.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -97.3 |
| | 1/3-1/3-1/3 | 30.186 - 36.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -92.9 |
| | 1/4-1/2-1/4 | ** - 29.463 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -101.0 | +80.0 | -90.5 |
| 113-5/8" | custom | 29.464 - 33.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -108.5 | +80.0 | -94.1 |
| | 1/3-1/3-1/3 | 33.186 - 38.222 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -92.3 |
| | 1/4-1/2-1/4 | ** - 31.052 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -101.0 | +80.0 | -90.5 |
| 120" | custom | 31.053 - 33.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -102.9 | +80.0 | -91.5 |
| | custom | 33.186 - 38.222 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -90.6 |

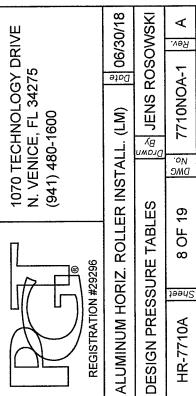


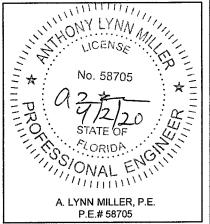


GLASS TYPES 8 - 15 MAY NOT BE USED WITH INTEGRAL FIN FRAMES

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.04 **Expiration Date: 08/23/2023** By: Manuel Perez Miami-Dade Product Control

A) NO CHANGES THIS SHEET. JR - 03/11/20





Series Desc. Title

** MIN. SASH WIDTH (FLANGE WINDOWS) = OVERALL WIDTH - 58.556

** MIN. SASH WIDTH (EQUAL-LEG WINDOWS) = OVERALL WIDTH - 57.556

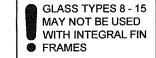
NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

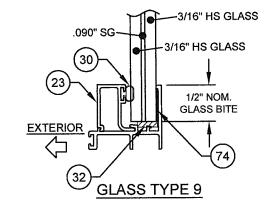
| | ~ | _ | 4 | 4 | | |
|----|---|---|----|---|---|--|
| TA | ĸ | - | -1 | 1 | • | |
| | | | | | | |

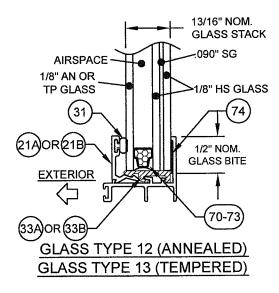
| TABLE 11: | 1 | | | | | | | | | | Glas | s Types: | 0 12 13 | 14 15 |
|-----------|---------------|-----------------|-----------|-------------|---------|--------------|------------------------|-----------|---------|-----------|---------|------------|---------|-----------|
| Overall | Sash | Sash Width | [| Design F | Pressui | e (lbs/f | t ²) for X | OX Wi | ndows | | | ting Rail: | | |
| Width | Configuration | Range (in) | 21-1/8" O | verall Hgt. | 29" Ove | rall Hgt. | 37" Ove | rall Hgt. | 49" Ove | rall Hgt. | 55" Ove | rall Hgt. | 63" Ove | rall Hgt. |
| 44" | 1/4-1/2-1/4 | 12.038 - 12.052 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 44 | 1/3-1/3-1/3 | 12.053 - 15.008 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 49" | 1/4-1/2-1/4 | 12.038 - 13.302 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 49 | 1/3-1/3-1/3 | 13.303 - 16.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 53-1/8" | 1/4-1/2-1/4 | 12.038 - 14.333 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 53-1/6 | 1/3-1/3-1/3 | 14.334 - 18.050 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 61" | 1/4-1/2-1/4 | 12.038 - 16.302 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 61 | 1/3-1/3-1/3 | 16.303 - 20.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/4-1/2-1/4 | 12.038 - 20.052 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| 76" | custom | 20.053 - 22.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/3-1/3-1/3 | 22.186 - 25.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/4-1/2-1/4 | ** - 24.082 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -106.7 |
| 92-1/8" | custom | 24.083 - 26.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/3-1/3-1/3 | 26.186 - 31.048 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/4-1/2-1/4 | ** - 25.302 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -106.7 |
| 97" | custom | 25.303 - 27.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/3-1/3-1/3 | 27.186 - 32.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/4-1/2-1/4 | ** - 28.302 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -106.7 |
| 109" | custom | 28.303 - 30.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/3-1/3-1/3 | 30.186 - 36.675 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/4-1/2-1/4 | ** - 29.463 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -106.7 |
| 113-5/8" | custom | 29.464 - 33.185 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/3-1/3-1/3 | 33.186 - 38.222 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |
| | 1/4-1/2-1/4 | ** - 31.052 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -106.7 |
| 120" | custom | 31.053 - 33.185 | | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -107.8 |
| | custom | 33.186 - 38.222 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 | +80.0 | -110.0 |

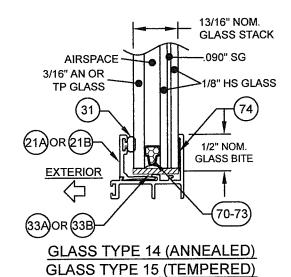
^{**} MIN. SASH WIDTH (FLANGE WINDOWS) = OVERALL WIDTH - 58.556



*-110.0 FOR GLASS TYPES 9, 12, 13 & 15



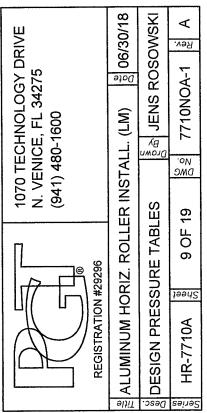


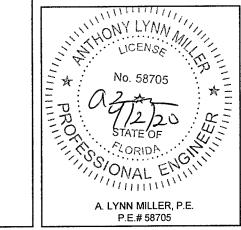




A) NO CHANGES THIS SHEET. JR - 03/11/20

Miami-Dade Product Control





NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

^{**} MIN. SASH WIDTH (EQUAL-LEG WINDOWS) = OVERALL WIDTH - 57.556

TABLE 12:

| | Anchor Qu | an | tities for XO | & (| OX Windows | 3 | Glass Typ Meeting R | | | |
|---------|-------------------|------|----------------|------|----------------|------|------------------------|------|----------------|------|
| Overall | 21-1/8" Overall H | lgt. | 37" Overall Ho | jt. | 49" Overall Ho | ıt. | 55" Overall Hg | ıt. | 63" Overall Ho | jt. |
| Width | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb |
| 20" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 |
| 25" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 |
| 37" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 |
| 49" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 |
| 61" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 |
| 67" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C3+1 * | 3 |
| 74" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C3+1 * | 3 |

*1+C2+1 FOR GLASS TYPES 1, 4 & 5

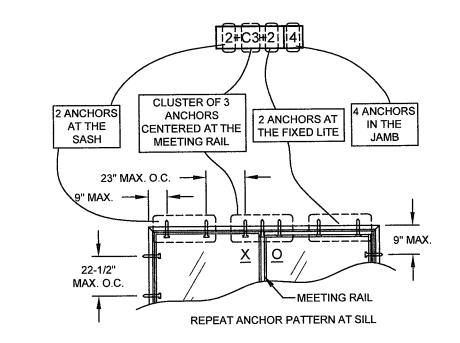
TABLE 13:

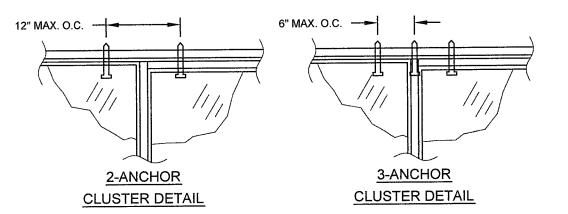
| 1ABLE 13: | | | | | | | | | | |
|-----------|-------------------|-------|----------------|------|----------------|------|------------------------|------|----------------|------|
| | Anchor Qu | ıan | tities for XO | & (| OX Windows | 3 | Glass Typ Meeting R | | | |
| Overall | 21-1/8" Overall I | -lgt. | 37" Overall Ho | jt. | 49" Overall Hg | jt. | 55" Overall Ho | jt. | 63" Overall Ho | jt. |
| Width | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb |
| 20" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 |
| 25" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 |
| 37" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 |
| 49" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C3+1 | 3 |
| 61" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C3+1 | 3 | 1+C3+1 | 3 |
| 67" | 1+C2+1 | 2 | 2+C2+2 | 2 | 2+C2+2 | 3 | 2+C3+2 | 3 | 2+C3+2 | 3 |
| 74" | 2+C2+2 | 2 | 2+C2+2 | 2 | 2+C2+2 | 3 | 2+C3+2 | 3 | 2+C3+2 | 4 |

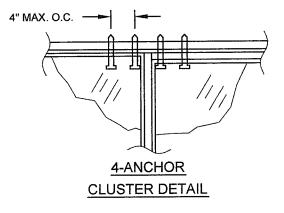
TABLE 14:

| TABLE 14. | | | 0 414 | £ | VO 9 OV 14 | /: | -l | | Glass Typ | es: | 8 thru 15 | |
|-----------|-------------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| | And | cho | r Quantities | TO | r XO & OX W | /Inc | aows | | Meeting R | ail: | Heavy-Duty | |
| Overall | 21-1/8" Overall F | lgt. | 37" Overall Ho | jt. | 49" Overall Ho | jt. | 55" Overall Ho | gt. | 63" Overall Ho | jt. | 76" Overall Ho | gt. |
| Width | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb |
| 20" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 4 |
| 25" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 4 |
| 37" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C3+1 | 4 |
| 49" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C2+1 | 3 | 1+C3+1 | 3 | 1+C3+1 | 4 |
| 61" | 1+C2+1 | 2 | 1+C2+1 | 2 | 1+C2+1 | 3 | 1+C3+1 | 3 | 1+C3+1 | 3 | 1+C4+1 | 4 |
| 67" | 1+C2+1 | 2 | 2+C2+2 | 2 | 2+C2+2 | 3 | 2+C3+2 | 3 | 2+C3+2 | 3 | 2+C4+2 | 4 |
| 76" | 2+C2+2 | 2 | 2+C2+2 | 2 | 2+C3+2 | 3 | 2+C3+2 | 3 | 2+C3+2 | 4 | 2+C4+2 | 5 |

GUIDE TO USING ANCHOR QUANTITY TABLES FOR XO/OX WINDOWS:







NOTES:

- 1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.
- 2) FOR SIZES NOT SHOWN, ROUND $\begin{tabular}{l} \underline{\mathsf{UP}} \end{tabular}$ TO THE NEXT AVAILABLE SIZE.

PRODUCT REVISED as complying with the Florida Building Code

20-0406.04 NOA-No. Expiration Date: 08/23/2023

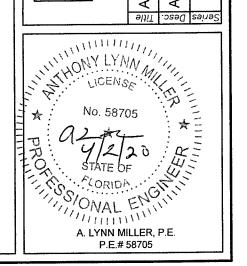
By: Manuel Perez Miami-Dade Product Control

A) NO CHANGES THIS SHEET.

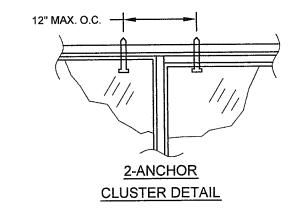
JR - 03/11/20

Rev.

© 06/30/18 JENS ROSOWSKI 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 7710NOA-1 ALUMINUM HORIZ. ROLLER INSTALL. (LM) רמאח 8y ANCHOR QUANTITY TABLES 10 OF 19 HR-7710A



| TABLE 15: | | | | | | | | | | | Glass Type | | 1 4 5 | _ |
|-----------|---------------|-----------------|--------------------|------|------------------|------|-----------------|------|-----------------|------|-----------------|------|----------------|------|
| | | Sash | Δ. | ۱ne | chor Quantitie | es | for XOX Wind | do | ws | | Meeting Ra | | | |
| Overali | Sash | | 21-1/8" Overall Ho | jt. | 29" Overall Hgt. | П | 37" Overall Hgt | t. | 49" Overall Hgt | | 55" Overall Hgt | . [| 63" Overall Hg | t. |
| Width | Configuration | Range (in) | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb |
| 4.411 | 1/4-1/2-1/4 | 12.038 - 12.052 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| 44" | 1/3-1/3-1/3 | 12.053 - 15.008 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| 40! | 1/4-1/2-1/4 | 12.038 - 13.302 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| 49" | 1/3-1/3-1/3 | 13.303 - 16.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| FO 4/0" | 1/4-1/2-1/4 | 12.038 - 14.333 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| 53-1/8" | 1/3-1/3-1/3 | 14.334 - 18.050 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| 0.411 | 1/4-1/2-1/4 | 12.038 - 16.302 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| 61" | 1/3-1/3-1/3 | 16.303 - 20.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| | 1/4-1/2-1/4 | 12.038 - 20.052 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 |
| 76" | custom | 20.053 - 22.185 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| | 1/3-1/3-1/3 | 22.186 - 25.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| | 1/4-1/2-1/4 | ** - 24.082 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 |
| 92-1/8" | custom | 24.083 - 26.185 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 |
| | 1/3-1/3-1/3 | 26.186 - 31.038 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 |
| | 1/4-1/2-1/4 | ** - 25.302 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 |
| 97" | custom | 25.303 - 27.185 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 |
| | custom | 27.186 - 31.038 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 |
| | 1/4-1/2-1/4 | ** - 28.302 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 |
| 109" | custom | 28.303 - 29.185 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 |
| | custom | 29.186 - 31.038 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 |
| 120" | 1/4-1/2-1/4 | ** - 31.038 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 |

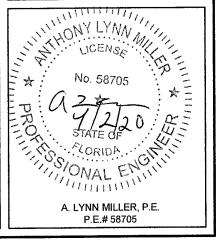


Miami-Dade Product Control A) NO CHANGES THIS SHEET. JR - 03/11/20

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.04 Expiration Date: 08/23/2023

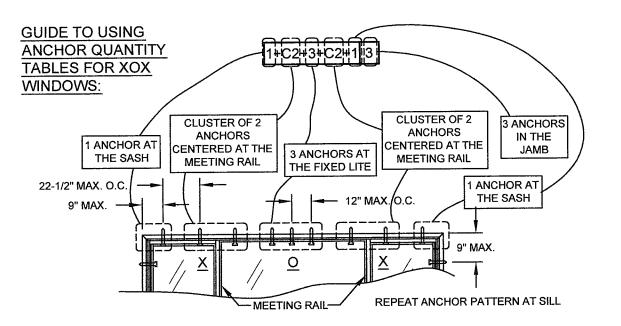
By: Manuel eres

ੂੰ ਹੁ 06/30/18 JENS ROSOWSKI 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 7710NOA-1 ALUMINUM HORIZ. ROLLER INSTALL. (LM) By By No. ANCHOR QUANTITY TABLES 11 OF HR-7710A Series Desc. Title



** MIN. SASH WIDTH (FLANGE WINDOWS) = OVERALL WIDTH - 57.924

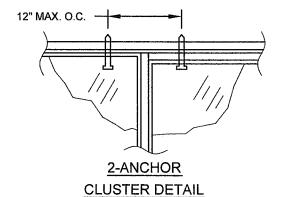
** MIN. SASH WIDTH (EQUAL-LEG WINDOWS) = $\frac{\text{OVERALL WIDTH - }56.924}{2}$

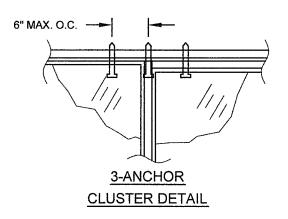


NOTES:

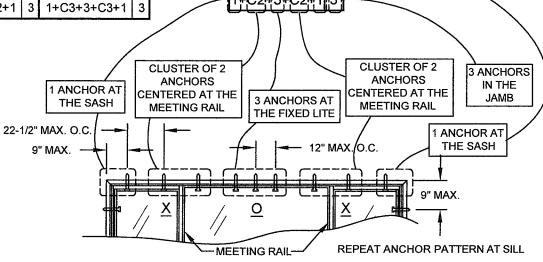
1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

| TABLE 16: | | | | | | | | | | | | | |
|-----------|---------------|-----------------|-------------------|------|----------------|------|----------------|------|-----------------|------|----------------|------|------------------|
| | | | | An | chor Quantiti | ies | for XOX Win | do | ws | | Glass Typ | | |
| Overall | Sash | Sash | | | | | | | | , | Meeting R | | |
| Width | Configuration | Width | 21-1/8" Overall F | | 29" Overall Hg | | 37" Overall Hg | | 49" Overall Hgt | | 55" Overall Hg | | 63" Overall Hgt. |
| | | Range (in) | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill |
| 44" | 1/4-1/2-1/4 | 12.038 - 12.052 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| | 1/3-1/3-1/3 | 12.053 - 15.008 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| 49" | 1/4-1/2-1/4 | 12.038 - 13.302 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| | 1/3-1/3-1/3 | 13.303 - 16.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| 53-1/8" | 1/4-1/2-1/4 | 12.038 - 14.333 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| 00 170 | 1/3-1/3-1/3 | 14.334 - 18.050 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| 61" | 1/4-1/2-1/4 | 12.038 - 16.302 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| 01 | 1/3-1/3-1/3 | 16.303 - 20.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| | 1/4-1/2-1/4 | 12.038 - 20.052 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 3 |
| 76" | custom | 20.053 - 22.185 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| | 1/3-1/3-1/3 | 22.186 - 25.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 |
| | 1/4-1/2-1/4 | ** - 24.082 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |
| 92-1/8" | custom | 24.083 - 26.185 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 |
| | 1/3-1/3-1/3 | 26.186 - 31.048 | 1+C2+1+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 |
| | 1/4-1/2-1/4 | ** - 25.302 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |
| 97" | custom | 25.303 - 27.185 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 |
| | 1/3-1/3-1/3 | 27.186 - 32.675 | 1+C2+1+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 |
| | 1/4-1/2-1/4 | ** - 28.302 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |
| 109" | custom | 28.303 - 30.185 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |
| | 1/3-1/3-1/3 | 30.186 - 36.675 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 |
| | 1/4-1/2-1/4 | ** - 29.463 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |
| 113-5/8" | custom | 29.464 - 33.185 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |
| | 1/3-1/3-1/3 | 33.186 - 38.222 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 |
| | 1/4-1/2-1/4 | ** - 31.052 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |
| 120" | custom | 31.053 - 33.185 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |
| | custom | 33.186 - 38.222 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 |





GUIDE TO USING ANCHOR QUANTITY TABLES FOR XOX WINDOWS:



PRODUCT REVISED as complying with the Florida Building Code

NOA-No. 20-0406.04 Expiration Date: <u>08/23/2023</u>

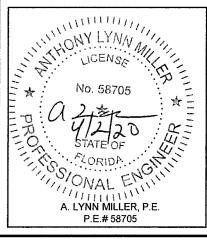
By: Manuel Perez

Miami-Dade Product Control

A) NO CHANGES THIS SHEET.

JR - 03/11/20

e 06/30/18 JENS ROSOWSKI 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 Rev. 7710NOA-1 ALUMINUM HORIZ. ROLLER INSTALL. (LM) Drawn By DMG ANCHOR QUANTITY TABLES 19 PF 12 HR-7710A



Series Desc. Title

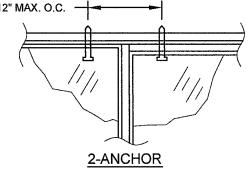
** MIN. SASH WIDTH (FLANGE WINDOWS) = OVERALL WIDTH - 58.556

** MIN. SASH WIDTH (EQUAL-LEG WINDOWS) = OVERALL WIDTH - 57.556

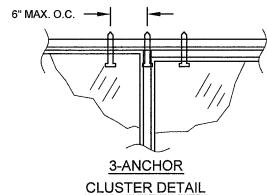
NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

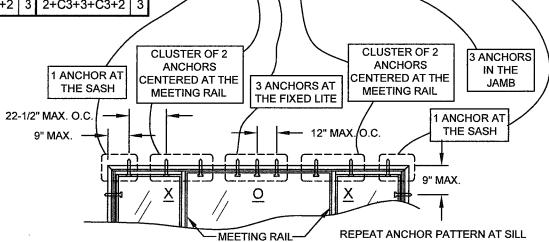
| | _ | Sash | | An | chor Quantit | ies | for XOX Wind | ot | ws | | Glass Types: Meeting Rail: | | |
|------------------|-----------------------|-----------------|-------------------|------|----------------|------|-----------------|------|------------------|------|-------------------------------|----------------|-------------------|
| Overall Width | Sash Configuration | \\/idth | 21-1/8" Overall F | lgt. | 29" Overall Hg | ţ. | 37" Overall Hgt | t. | 49" Overall Hgt. | .] | 55" Overall Hgt. | 63" Overall Hg | gt. 12" MAX. O.C. |
| rvidili | Comigaration | Range (in) | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill | Jamb | Head & Sill que | Head & Sill | Jamp |
| 44" | 1/4-1/2-1/4 | 12.038 - 12.052 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 | 1+C2+1+C2+1 | 3 |
| | 1/3-1/3-1/3 | 12.053 - 15.008 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 | 1+C2+1+C2+1 | 3 |
| 49" | 1/4-1/2-1/4 | 12.038 - 13.302 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 | 1+C2+1+C2+1 | 3 |
| 43 | 1/3-1/3-1/3 | 13.303 - 16.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 | 1+C2+1+C2+1 | 3 |
| 3-1/8" | 1/4-1/2-1/4 | 12.038 - 14.333 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 | 1+C2+1+C2+1 | 3 C |
| 3-1/0 | 1/3-1/3-1/3 | 14.334 - 18.050 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 | 1+C2+1+C2+1 | |
| 04" | 1/4-1/2-1/4 | 12.038 - 16.302 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C2+2+C2+1 3 | 1+C3+2+C3+1 | 6" MAX. O.C. — |
| 61" | 1/3-1/3-1/3 | 16.303 - 20.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C2+1+C2+1 3 | 1+C3+1+C3+1 | |
| | 1/4-1/2-1/4 | 12.038 - 20.052 | 1+C2+2+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 | 1+C3+3+C3+1 | 3 |
| 76" | custom | 20.053 - 22.185 | 1+C2+1+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 | 1+C3+2+C3+1 | 3 |
| | 1/3-1/3-1/3 | 22.186 - 25.675 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 2 | 1+C2+1+C2+1 | 3 | 1+C3+1+C3+1 3 | 1+C3+1+C3+1 | 3 |
| | 1/4-1/2-1/4 | ** - 24.082 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+4+C2+1 | 3 | 1+C3+4+C3+1 3 | 1+C3+3+C3+1 | 3 |
| 2-1/8" | custom | 24.083 - 26.185 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 | 1+C3+2+C3+1 | 3 |
| | 1/3-1/3-1/3 | 26.186 - 31.048 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 | 1+C3+2+C3+1 | 3 |
| | 1/4-1/2-1/4 | ** - 25.302 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+4+C2+1 | 3 | 1+C3+4+C3+1 3 | 1+C3+3+C3+1 | <u>C</u> |
| 97" | custom | 25.303 - 27.185 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 | 1+C3+2+C3+1 | 3 |
| | 1/3-1/3-1/3 | 27.186 - 32.675 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 2 | 1+C2+2+C2+1 | 3 | 1+C3+2+C3+1 3 | 1+C3+2+C3+1 | 3 |
| | 1/4-1/2-1/4 | ** - 28.302 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+4+C2+1 | 3 | 1+C3+4+C3+1 3 | 1+C3+3+C3+1 | 3 |
| 109" | custom | 28.303 - 30.185 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 3 | 1+C3+3+C3+1 3 | 1+C3+3+C3+1 | 3 |
| | 1/3-1/3-1/3 | 30.186 - 36.675 | 1+C2+2+C2+1 | 2 | 2+C2+2+C2+2 | 2 | 2+C2+3+C2+2 | 2 | 2+C3+3+C3+2 | 3 | 2+C3+3+C3+2 3 | 1+C3+2+C3+1 | 3 |
| | 1/4-1/2-1/4 | ** - 29.463 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+4+C2+1 | 3 | 1+C3+4+C3+1 3 | 1+C3+3+C3+1 | 3 |
| 13-5/8" | custom | 29.464 - 33.185 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C3+3+C3+1 | 3 | 1+C3+3+C3+1 3 | 1+C3+3+C3+1 | GUIDE TO USING |
| | 1/3-1/3-1/3 | 33.186 - 38.222 | 2+C2+2+C2+2 | 2 | 2+C2+2+C2+2 | 2 | 2+C2+3+C2+2 | 2 | 2+C3+3+C3+2 | 3 | 2+C3+3+C3+2 3 | 2+C3+2+C3+2 | 3 |
| | 1/4-1/2-1/4 | ** - 31.052 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | 2 | 1+C2+4+C2+1 | 3 | 1+C3+4+C3+1 3 | 1+C3+3+C3+1 | 3 |
| 120" | custom | 31.053 - 33.185 | 1+C2+3+C2+1 | - | 1+C2+3+C2+1 | 2 | 1+C2+3+C2+1 | | | | 1+C3+4+C3+1 3 | | |
| - 1 | custom | 33.186 - 38.222 | 2+C2+2+C2+2 | 2 | 2+C2+3+C2+2 | 2 | 2+C2+3+C2+2 | 2 | 2+C3+3+C3+2 | 3 | 2+C3+3+C3+2 3 | 2+C3+3+C3+2 | 3 |



CLUSTER DETAIL



TO USING ANCHOR QUANTITY BLES FOR XOX WINDOWS:



PRODUCT REVISED as complying with the Florida Building Code

NOA-No. 20-0406.04 **Expiration Date: 08/23/2023**

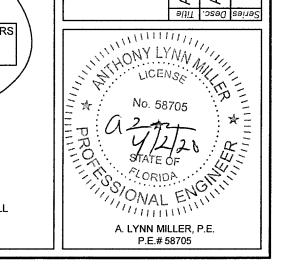
Miami-Dade Product Control

A) NO CHANGES THIS SHEET.

JR - 03/11/20

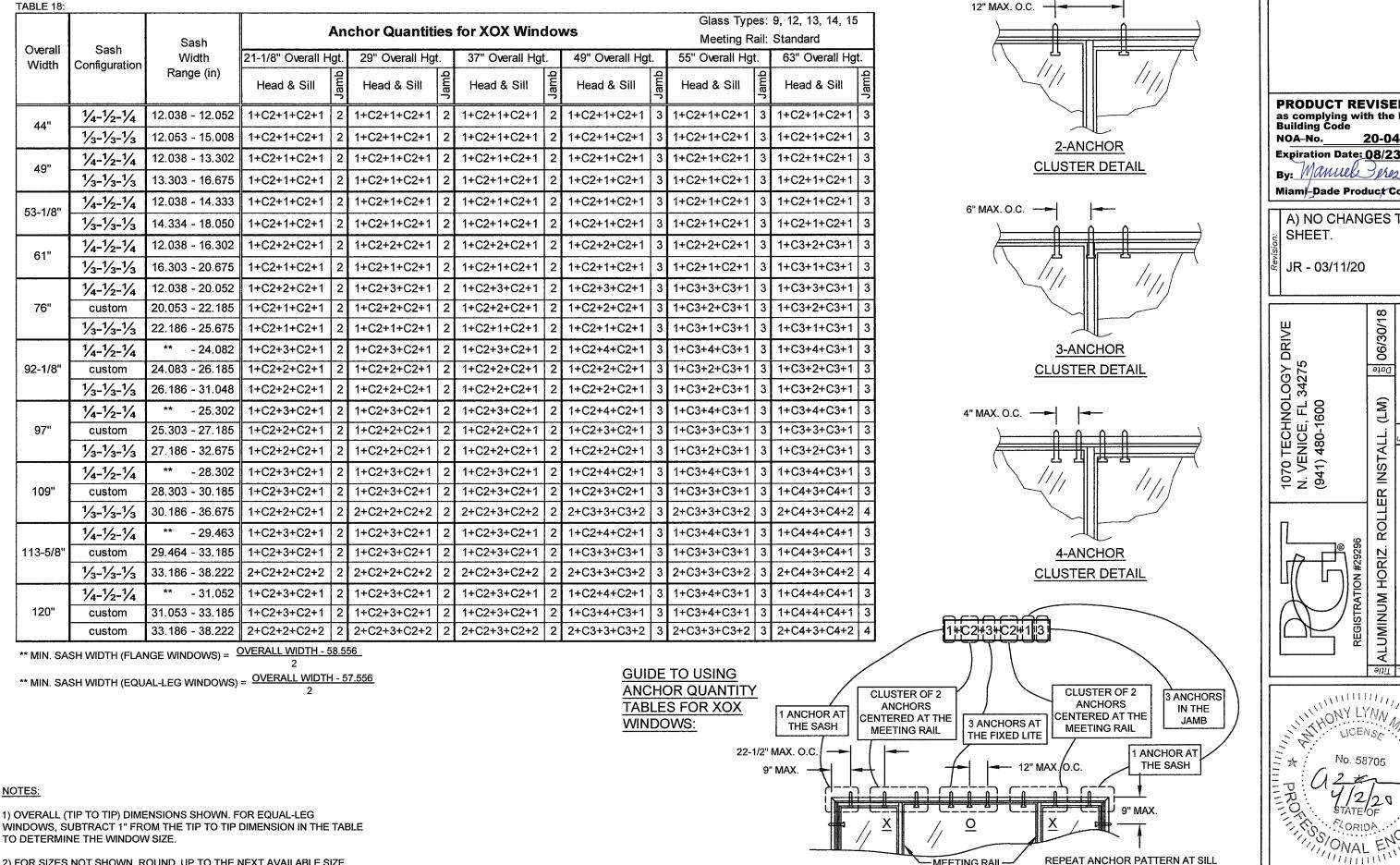
Rev.

te 06/30/18 JENS ROSOWSKI 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 7710NOA-1 ALUMINUM HORIZ. ROLLER INSTALL. (LM) DWG ANCHOR QUANTITY TABLES 13 OF 19 HR-7710A



NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.



- MEETING RAIL-

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

PRODUCT REVISED as complying with the Florida Building Code

20-0406.04 **Expiration Date: 08/23/2023**

Miami-Dade Product Control

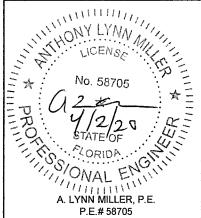
A) NO CHANGES THIS

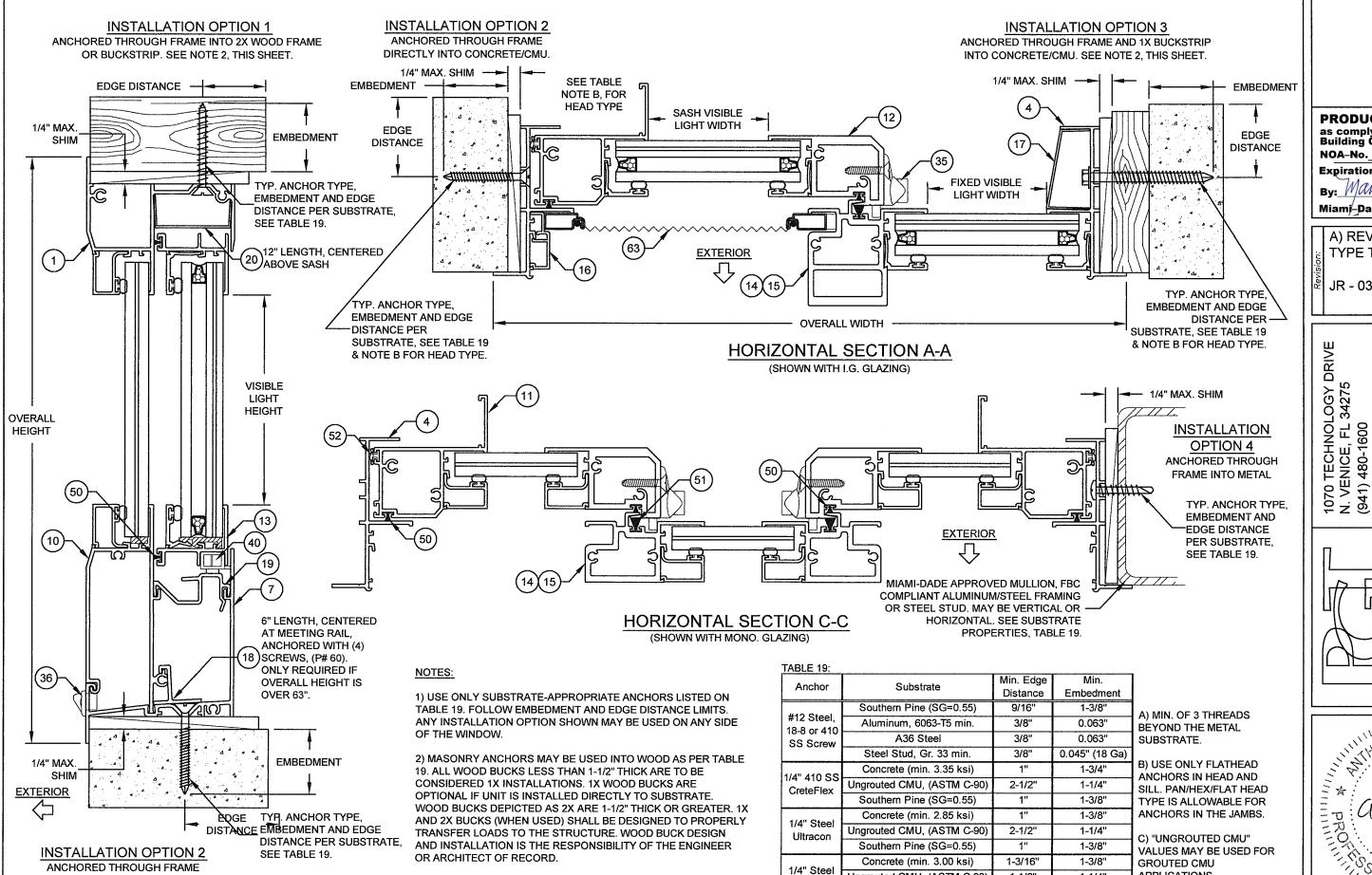
JR - 03/11/20

06/30/18 JENS ROSOWSKI Rev. 7710NOA-1 Date VЯ ROLLER INSTALL. No. рма ANCHOR QUANTITY TABLES 6 Я 4 ALUMINUM HORIZ. Sheet

HR-7710A

Series Desc. Title





3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS

DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

DIRECTLY INTO CONCRETE/CMU.

VERTICAL SECTION B-B

PRODUCT REVISED as complying with the Florida Building Code 20-0406.04

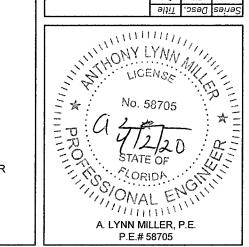
Expiration Date: 08/23/2023

Miami-Dade Product Control

A) REVISED ANCHOR TYPE TABLE.

JR - 03/11/20

JENS ROSOWSKI 06/30/18 Rev. 7710NOA-1 Date (LM) ĶΒ ROLLER INSTALL. .oN DMC 6 Р FLANGE 15 ALUMINUM HORIZ. INSTALLATION, HR-7710A



APPLICATIONS.

Ungrouted CMU, (ASTM C-90)

Southern Pine (SG=0.55)

Ultracon +

1-1/2"

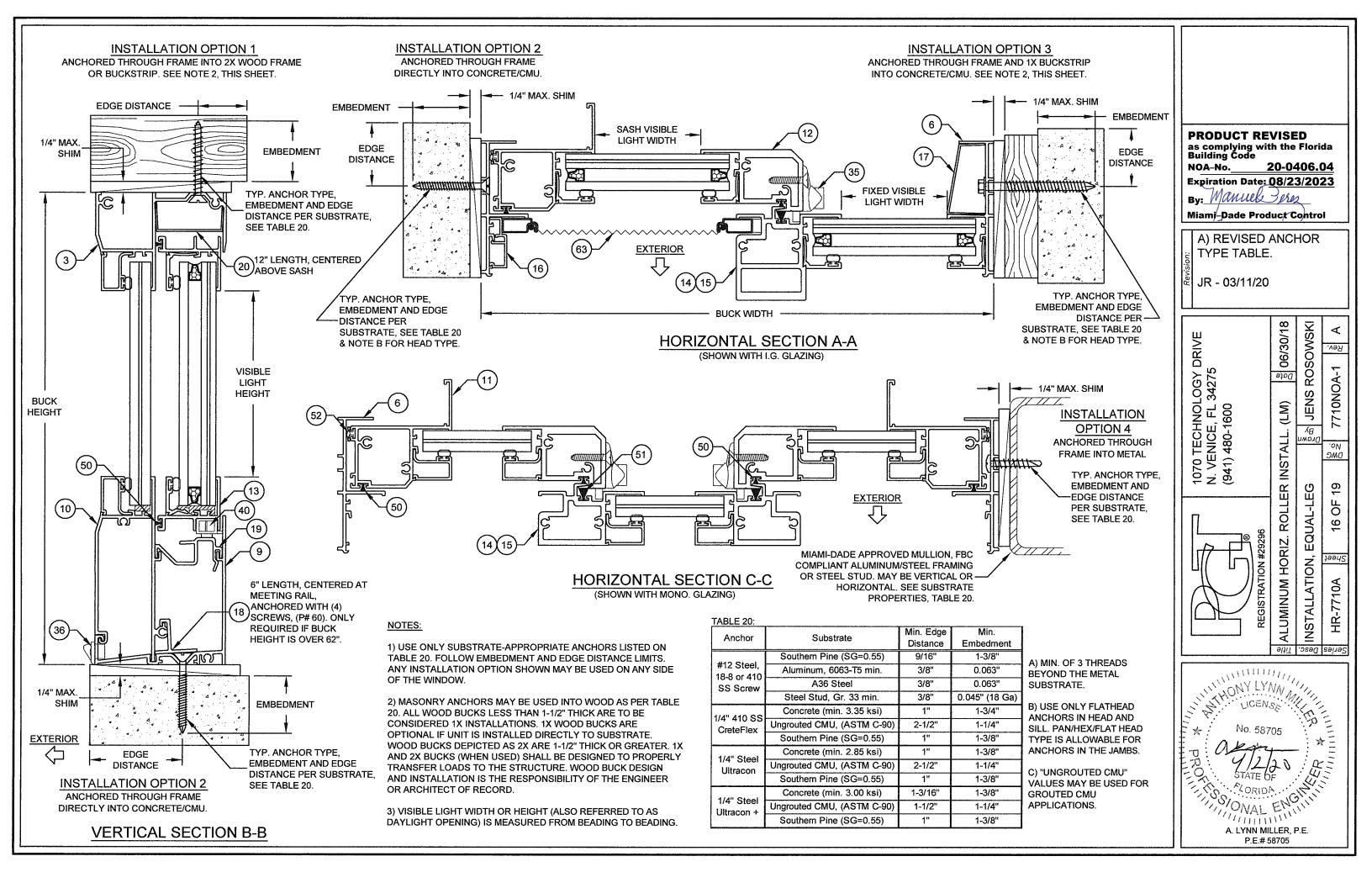
1"

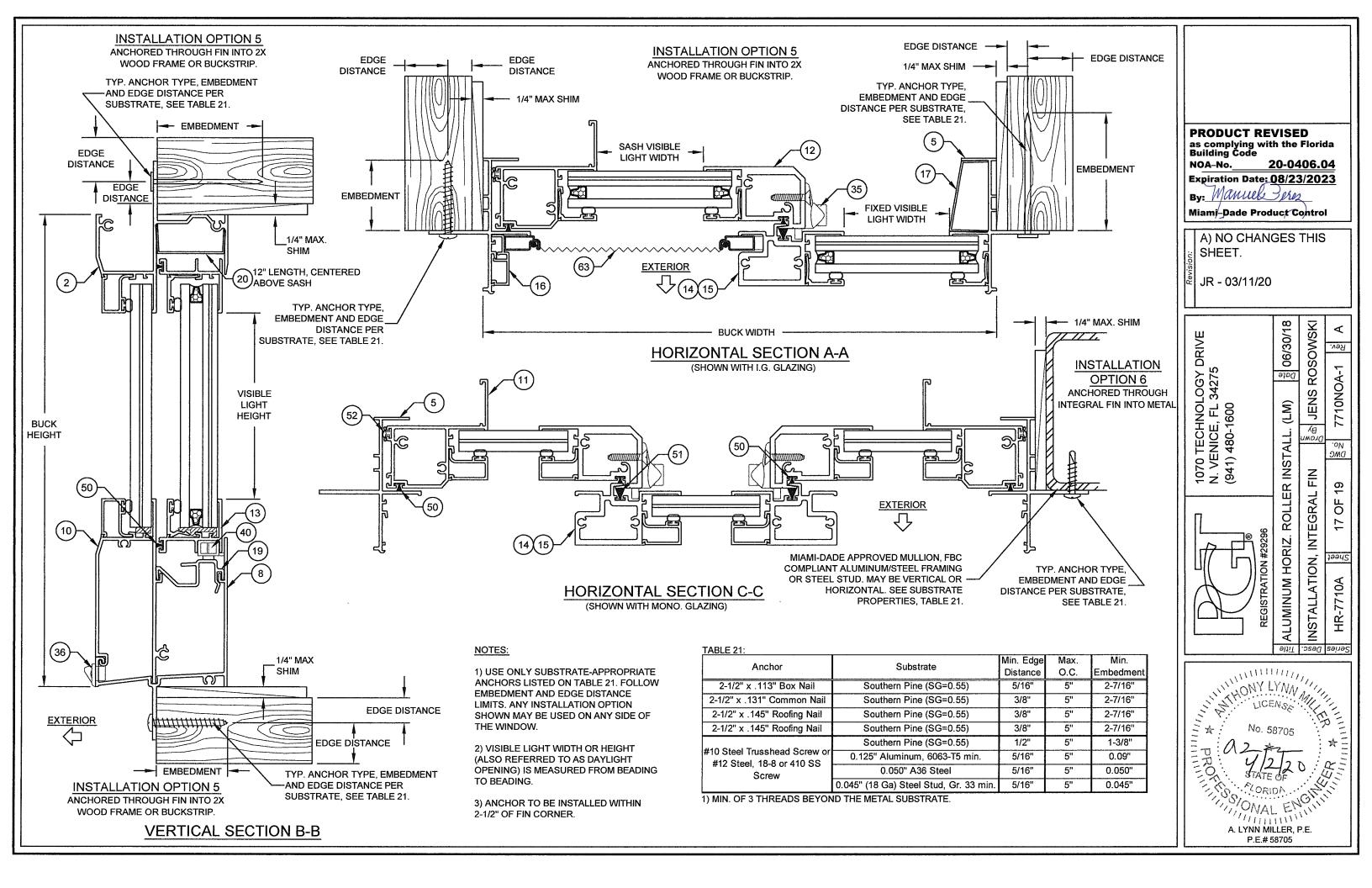
1-1/4"

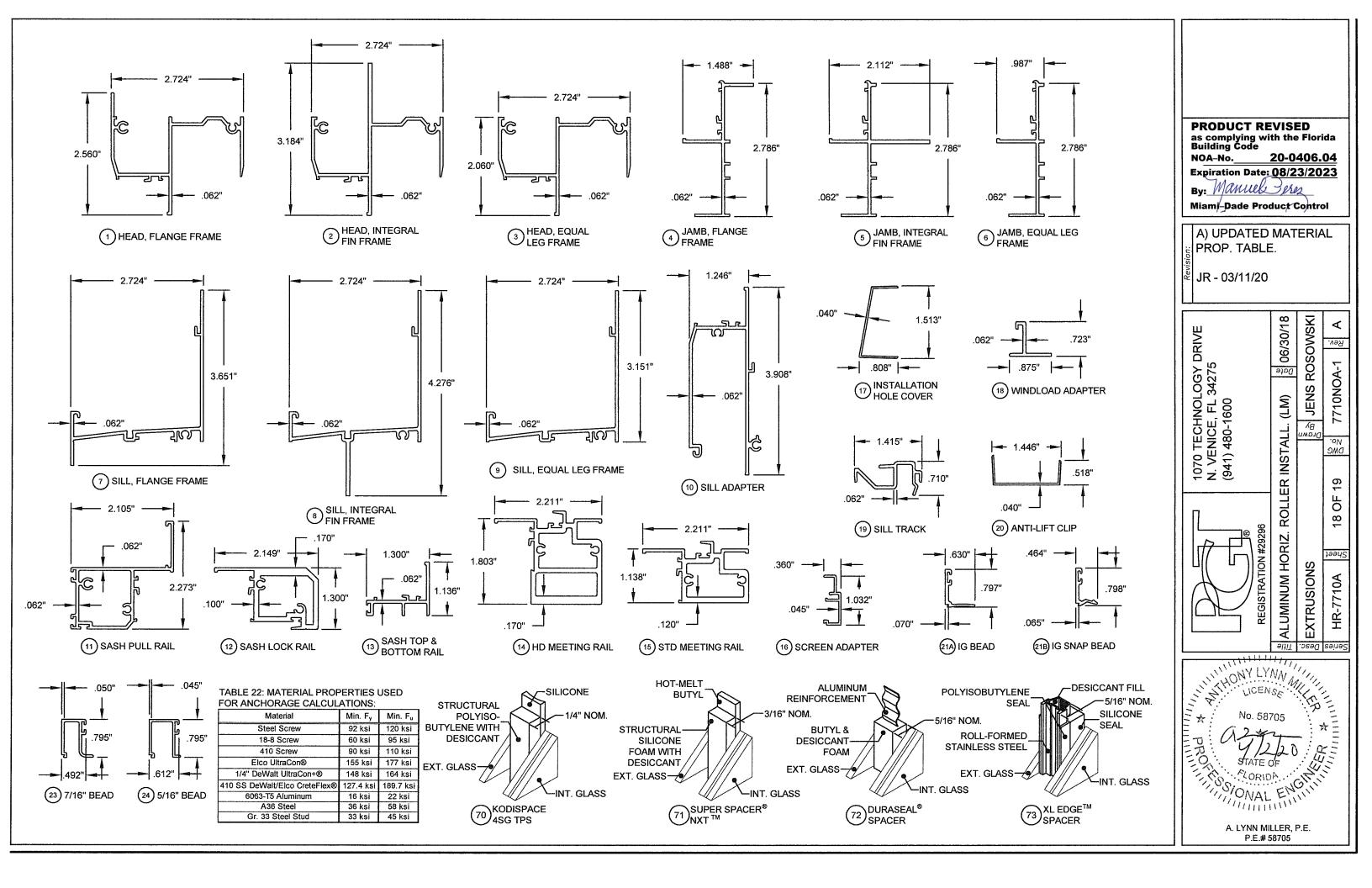
1-3/8"

Series Desc.

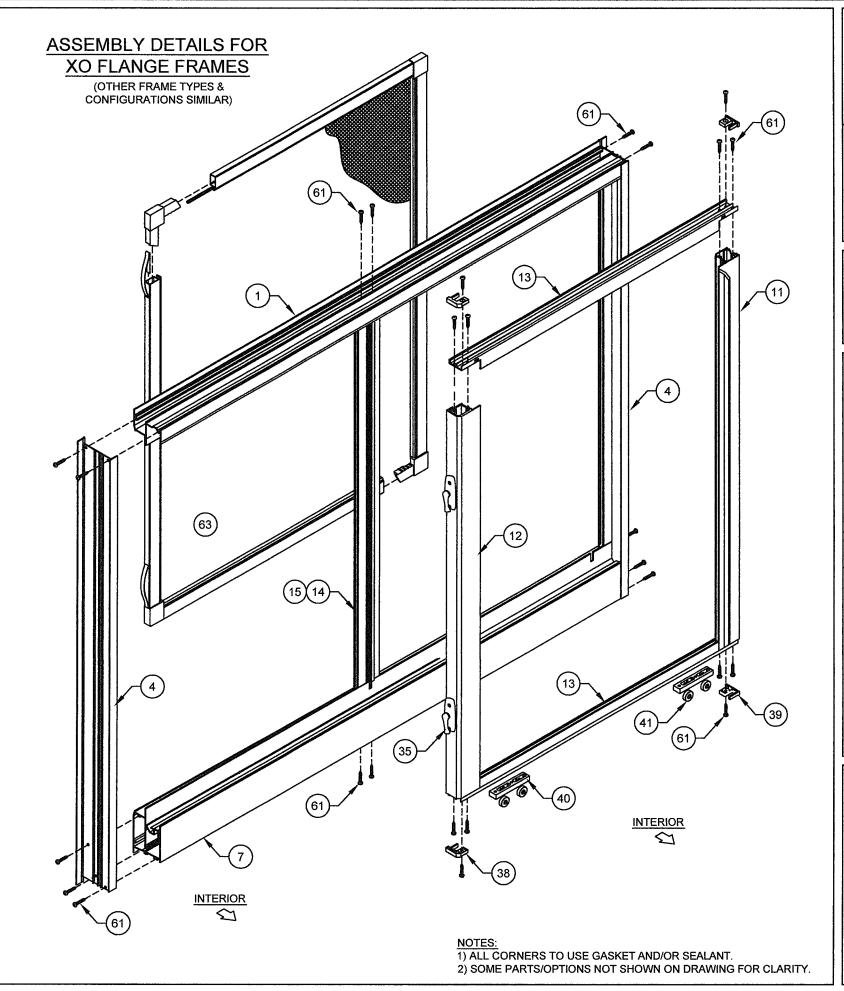
9IJIT







| ltem# | Part # | Description | Material |
|-------|------------|--|----------------|
| 1 | 624038 | Head, Flange Frame | Alum. 6063-T6 |
| 2 | 624039 | Head, Integral Fin Frame | Alum. 6063-T6 |
| 3 | 624040 | Head, Equal-leg Frame | Alum. 6063-T6 |
| 4 | 624001 | Jamb, Flange Frame | Alum. 6063-T6 |
| 5 | 624017 | Jamb, Integral Fin Frame | Alum. 6063-T6 |
| 6 | 624028 | Jamb, Equal-leg Frame | Alum. 6063-T6 |
| 7 | 624035 | Sill, Flange Frame | Alum. 6063-T6 |
| 8 | 624036 | Sill, Integral Fin Frame | Alum. 6063-T6 |
| 9 | 624037 | Sill, Equal-leg Frame | Alum. 6063-T6 |
| 10 | 624034 | Sill Adaptor | Alum. 6063-T6 |
| 11 | 624043 | Sash Pull Rail | Alum. 6063-T6 |
| 12 | 624006 | Sash Lock Rail | Alum. 6005A-T6 |
| 13 | 624041 | Sash Top & Bottom Rail | Alum. 6063-T6 |
| 14 | 624027 | HD Meeting Rail | Alum. 6063-T6 |
| 15 | 624005 | Std. Meeting Rail | Alum. 6005A-T6 |
| 16 | 624047 | Screen Adapter | Alum. 6063-T6 |
| 17 | 624051 | Installation Hole Cover | Alum. 6063-T6 |
| 18 | 64125M | Windload Adapter | Alum. 6063-T6 |
| 19 | 624042 | Sill Track | Alum. 6063-T6 |
| 20 | 624015 | Anti-Lift Clip | Alum. 6063-T6 |
| 21A | 624009 | IG Bead | Alum. 6063-T5 |
| 21B | 624011 | IG Snap Bead | Alum. 6063-T5 |
| 23 | 624026 | 7/16" Lami Glaz. Bead | Alum. 6063-T6 |
| 24 | 624013 | 5/16" Lami Glaz. Bead | |
| 30 | | | Alum. 6063-T6 |
| 31 | 6TP247 | Glazing Bead, Bulb Vinyl for #624013 & #624026 | Vinyl |
| | 6TP248 | Glazing Bead, Bulb Vinyl for #624009 & #624011 | Vinyl |
| 32 | 712653K | Mono setting Block 3/32" X 1/4" X 1" | Neoprene |
| 33A | 71715K | Lami IG Setting Block 1/8" x 3/4" x 1-1/14" | Neoprene |
| 33B | 624014 | IG Snap Setting Block | Vinyl |
| 35 | 724045 | Sweep Latch | Cast Zinc |
| 36 | 71298 | Weep Hole Cover | Vinyl |
| 37 | 41722 | Hole Plug | Vinyl |
| 38 | 724021 | Lock Rail Cover, (LH & RH) | Vinyl |
| 39 | 724050 | Pull Rail End Cap | Vinyl |
| 40 | 724048 | Roller Housing & Sash Guide | Vinyl |
| 41 | 724052 | Roller Wheels | Stainless Stee |
| 42 | 724054 | Sash Top Rail Gasket, (LH & RH) | Polyethylene |
| 43 | 724055 | Sash Bot Rail Gasket, (LH & RH) | Polyethylene |
| 44 | 724057 | Frame Header Gasket, (LH & RH) | Polyethylene |
| 45 | 724058 | Frame Sill Gasket, (LH & RH) | Polyethylene |
| 46 | 724063 | Meeting Rail Gasket | Polyethylene |
| 50 | | Weatherstrip, .187" x .170", Fin Seal @ Sash | |
| 51 | | Weatherstrip, .187" x .270", Fin Seal @ MR | |
| 52 | 67070 | Bulb Vinyl | |
| 60 | 710X38PPAX | #10 X 3/8" Ph. PH SMS (Windload Adapter) | Stainless Stee |
| 61 | 781PQX | #8 X1" Qd. PH SMS (Frame & Sash Assembly) | Stainless Stee |
| 63 | | Aluminum Screen with Fiberglass Mesh | Varies |
| 70 | - | Kommerling Kodispace 4SG TPS | |
| 71 | _ | Quanex Super Spacer nXT | See Sheet |
| 72 | - | Quanex Duraseal Spacer | 18 for |
| 73 | - | Cardinal XL Edge Spacer | Materials |
| 74 | | Dow 791, 899, 983 or GE 7700 Backbedding | Silicone |



PRODUCT REVISED as complying with the Florida Building Code

NOA-No. 20-0406.04

Expiration Date: 08/23/2023

By: Manuel Peres Miami-Dade Product Control

A) ADDED BACKBEDDING

JR - 03/11/20

± 06/30/18 JENS ROSOWSKI 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 7710NOA-1

ALUMINUM HORIZ. ROLLER INSTALL. (LM) No. 19 OF 19

BOM & CORNER DETAILS HR-7710A Series Desc. Title

