

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

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

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 "HR-5510" PVC Horizontal Rolling Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-HR5510-01** titled "Horizontal Roller - LM", sheets 1 through 18 of 18, dated 05/15/15, with revision C dated 04/02/20, 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 and renews NOA# 17-0411.08** 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 **Sifang Zhao**, **P.E.**

(MIAMI-DADE COUNTY)
| APPROYED

5.2.

NOA No. 20-0406.01 Expiration Date: September 24, 2025 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.15-0903.10)
- 2. Drawing No. **MD-HR5510-01** titled "Horizontal Roller LM", sheets 1 through 18 of 18, dated 05/15/15, with revision B dated 03/27/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal[®] spacer system, Super Spacer[®] NXTTM spacer system and XL EdgeTM spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E. (Submitted under previous NOA No. 16-0714.17)

- 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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
 - 5) Large Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of series 5410 and series 5510 PVC horizontal sliding windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8072**, dated 02/03/15, signed and sealed by Idalmis Ortega, P.E. (*Submitted under NOA No.15-0903.10*)

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

along with marked-up drawings and installation diagram of series 5510 PVC horizontal sliding windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8073**, dated 02/18/15, signed and sealed by Idalmis Ortega, P.E. (Submitted under NOA No.15-0903.10)

Sifang Zhao, P.E. Product Control Examiner NOA No. 20-0406.01

Expiration Date: September 24, 2025 Approval Date: August 27, 2020

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

- 4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94 along with marked-up drawings and installation diagram of series 5510 PVC horizontal sliding windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8074**, dated 11/06/14, signed and sealed by Idalmis Ortega, P.E. (Submitted under NOA No.15-0903.10)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC-5**th **Edition** (2014), dated 08/28/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (*Submitted under NOA No.15-0903.10*)
- 2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. NOA No. 16-1117.01 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear, and Color PVB Glass Interlayers", expiring on 07/08/19.
- 2. NOA No. **14-0916.11** issued to **Kuraray America**, **Inc.** for their "**SentryGlas**® (**Clear and White**) **Glass Interlayers**", expiring on 07/04/18.
- 3. NOA No. 16-0712.03 issued to ENERGI Fenestration Solutions USA for their "White Rigid PVC Exterior Extrusions for Windows and Doors", expiring on 02/28/18.
- 4. NOA No. 16-0712.04 issued to ENERGI Fenestration Solutions USA, Inc. for their "Bronze and Lighter Shades of Cap Coated White Rigid PVC Exterior Extrusions for Windows and Doors", expiring on 04/16/20.
- 5. NOA No. 16-0712.05 issued to ENERGI Fenestration Solutions USA, Inc. for their "Performance Core Rigid PVC Exterior Extrusions for Windows and Doors", expiring on 04/16/20.

F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC-5th Edition (2014) and FBC-6th Edition (2017), dated 08/02/17 and Statement letter of no financial interest, dated 03/31/17issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E. (*Submitted under previous NOA No. 16-0714.17*)
- 3. Proposal issued by Product Control, dated 8/27/14 and revised on 9/10/14, signed by Jaime Gascon, P.E. (*Submitted under NOA No.15-0903.10*)

G. OTHERS

1. NOA No. **16-0714.17**, issued to PGT Industries, Inc. for their Series "HR-5510" PVC Horizontal Rolling Window - L.M.I., expiring on 09/24/20.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0406.01
Expiration Date: September 24, 2025
Approval Date: August 27, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. DRAWINGS

1. Drawing No. **MD-HR5510-01** titled "Horizontal Roller - LM", sheets 1 through 18 of 18, dated 05/15/15, with revision C dated 04/02/2020, 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-6**th **Edition (2017)** and **FBC-7**th **(2020)** dated 04/02/2020, prepared by manufacturer, 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. NOA No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers", expiring on 07/08/24.
- 2. NOA No. 17-0808.02 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers", expiring on 07/04/23.
- 3. NOA No. **18-0122.02** issued to ENERGI Fenestration Solutions USA, for their "White Rigid PVC Exterior Extrusions for Windows and Doors" dated 03/08/18, expiring on 02/28/23.
- 4. NOA No. 20-0203.03 issued to ENERGI Fenestration Solutions USA, Inc. for their "Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors" dated 02/27/20, expiring on 04/16/25.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0406.01
Expiration Date: September 24, 2025
Approval Date: August 27, 2020

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS(CONTINUED)

5. NOA No. 20-0203.04 issued to ENERGI Fenestration Solutions USA, Inc. for their "Performance Core Rigid PVC Exterior Extrusions for Windows and Doors" dated 02/27/20, expiring on 04/16/25.

F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC-6**th **Edition (2017) and FBC-7**th **Edition (2020)**, dated 03/27/20, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest, dated 03/27/20, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

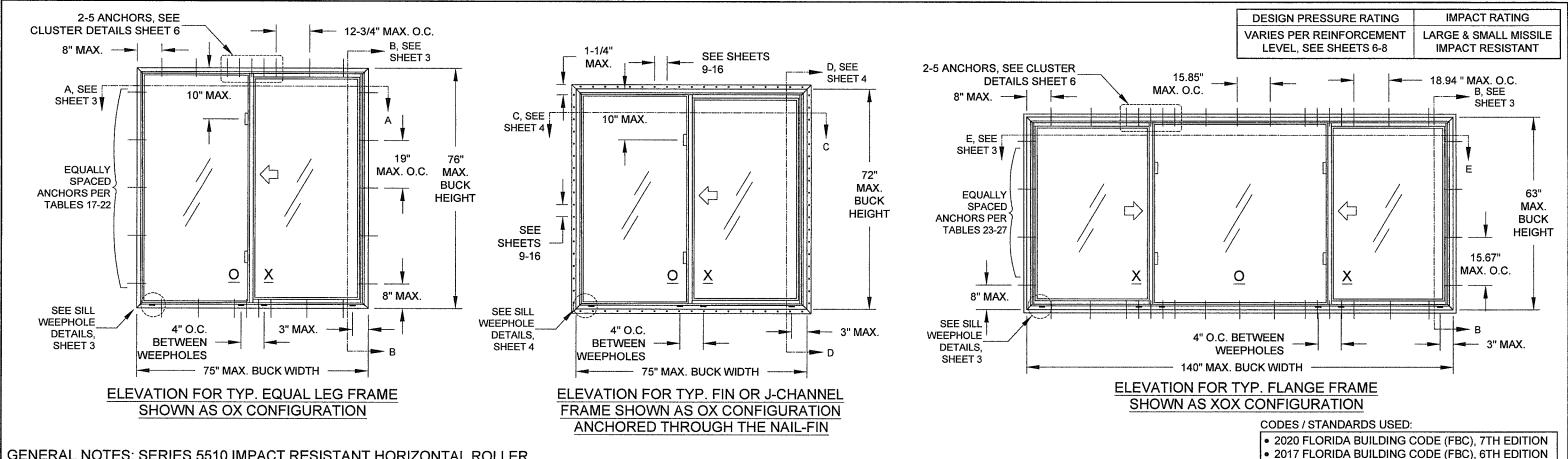
G. OTHERS

1. NOA No. **17-0411.08**, issued to PGT Industries, Inc. for their Series "HR-5510" PVC Horizontal Rolling Window - L.M.I., expiring on 09/24/20.

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Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0406.01
Expiration Date: September 24, 2022

Approval Date: August 27, 2020



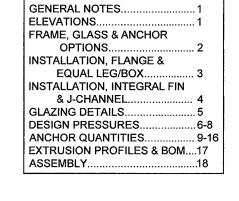
GENERAL NOTES: SERIES 5510 IMPACT RESISTANT HORIZONTAL ROLLER

- 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 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. INSTALLATION ANCHORS SHOULD 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.
- 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-8072, 8073 & 8074; ELCO ULTRACON NOA; DEWALT ULTRACON+ NOA; ELCO/DEWALT CRETEFLEX NOA; ELCO/DEWALT AGGRE-GATOR NOA; ENERGI WINDOW AND DOOR PROFILES, LTD WHITE & BRONZE/LIGHTER SHADES OF CAP COATED PVC EXTRUSION NOA'S; NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS & ALUMINUM DESIGN MANUAL 11) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

USER INSTRUCTIONS:

- 1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT USING WINDLOAD STANDARD ASCE 7. 2) KNOWING YOUR FRAME TYPE, WINDOW CONFIGURATION (OX, XO, XOX), SIZE, GLAZING OPTION FROM (TABLE 1) AND REINFORCEMENT LEVEL, DETERMINE YOUR WINDOW'S DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING USING TABLES 6-16 (SHEETS 6-8). IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1. USE INDEX TABLE 5 ON SHEET 6 TO HELP FIND THE APPROPRIATE TABLE.
- 3) DETERMINE THE MOST SUITABLE ANCHOR GROUP FROM TABLES 2 AND 3 ON SHEET 2 ACCORDING TO THE INSTALLATION CONDITIONS.
- 4) DETERMINE THE ANCHOR QUANTITY FROM TABLES 17-27 (SHEETS 9-16), VERIFY THE ANCHOR/SUBSTRATE WILL MEET REQUIREMENTS FOR YOUR OPENING'S CONDITION FROM TABLES 2 OR 3, AND THAT ALL MIN. REQUIREMENTS FROM THIS SHEET SET ARE MET.
- 5)INSTALL AS PER SHEET 3 FOR FLANGE/EQUAL LEG INSTALLATION OR SHEET 4 FOR INTEGRAL FIN/J-CHANNEL INSTALLATION. USE TABLE 4 ON SHEET 2 TO FIND THE APPROPRIATE DETAILS.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (J-CHANNEL, FLANGE, INTEGRAL FIN OR EQUAL LEG/BOX), SEE FIGURE B ON SHEET 2.



ASTM E1300-09

AISI S100-16

AISC 360-16

ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION

ALUMINUM DESIGN MANUAL, ADM-2015

PRODUCT REVISED as complying with the Florida Building Code 20-0406.01

NOA-No. **Expiration Date** 09/24/2025

Miami-Dade Product Control

Drawn By:

Description: **GENERAL NOTES & ELEVATION**

HORIZONTAL ROLLER - LM

Date: 05/15/15

Rev:

C

J ROSOWSKI

Series/Model: HR-5510 **REGISTRATION #29296**

Revision:

TABLE.

AK - 03/27/20

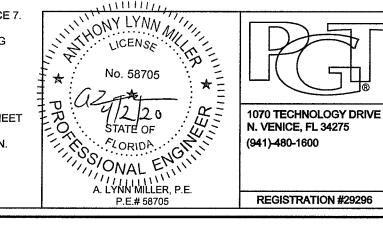
C) UPDATED TO FBC 2020,

REVISED ANCHOR TYPE

Scale: NTS

1 OF 18

Drawing No. MD-HR5510-01



MILLIA,

TABLE 1:	E 1: ALLOWABLE GLASS TYPES									
Glass	Decarintion // isted from Exterior to Interior									
Type	Description (Listed from Exterior to Interior)									
5	7/8" Laminated I.G.: 1/8" A Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer									
6	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer									
7	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer									
8	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer									
10	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer									
11	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer									
12	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer									
14	7/8" Laminated I.G.: 1/8" T Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer									
15	7/8" Laminated I.G.: 3/16" A Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer									
16	7/8" Laminated I.G.: 3/16" T Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer									
SEE SHE	ET 6, TABLE 5 FOR GLAZING/DESIGN PRESSURE/ANCHORAGE INDEX.									

"A" = ANNEALED "H" = HEAT STRENGTHENED "T" = TEMPERED "PVB" = .090" TROSIFOL® PVB

BY KURARAY AMERICA, INC. "SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY

GLASS TYPES 5, 7, 11 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

AMERICA, INC.

TABLE 4: INDEX OF INSTALLATION METHODS PER FRAME TYPE								
	Frame Types (see Fig B)	Glass Options (see Table 1)	Installation Conditions	Substrate Option Detail Sheet				
C.			Through the	into 2X Wood Frame/Buckstrip - sheet 4, option 5				
	J-Channel	5-8	integral fin	into Metal - sheet 4, option 8				
	(#1)	3-0	Through the frame	into 2X Wood Frame/Buckstrip - sheet 4, option 6				
			of the window	into Metal - sheet 4, option 7				
		~ I All I	Through the frame of the window	into 2X Wood Frame/Buckstrip - sheet 3, option 1				
	Flange (#2)			into Concrete/CMU - sheet 3, option 2				
				through 1X Buckstrip into Concrete/CMU - sheet 3, option 3				
				into Metal - sheet 3, option 4				
		al Fin 5-8	Through the	into 2X Wood Frame/Buckstrip - sheet 4, option 5				
	Integral Fin		integral fin	into Metal - sheet 4, option 8				
	(#3)	3-0	Through the frame	into 2X Wood Frame/Buckstrip - sheet 4, option 6				
			of the window	into Metal - sheet 4, option 7				
				into 2X Wood Frame/Buckstrip - sheet 3, option 1				
	Box / Equal-Leg	Ali	Through the frame	into Concrete/CMU - sheet 3, option 2				
	(#4)	Δ"	of the window	through 1X Buckstrip into Concrete/CMU - sheet 3, option 3				
	\			into Metal - sheet 3, option 4				

TABLE 2: ALLOWABLE ANCHORS THROUGH THE FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
	#10 SMS	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	(steel, 18-8 S.S.	Steel, A36*	3/8"	0.050"
	or 410 S.S.)	Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
A	01 +10 0.0.)	Aluminum, 6063-T5*	3/8"	0.050"
	3/16" steel Ultracon or	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Ultracon+	Concrete (min. 3 ksi)	1"	1-3/8"
[3/16" steel Ultracon	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	3/16" steel Ultracon+	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	#12 SMS	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	#12 SIVIS (steel, 18-8 S.S.	Steel, A36*	3/8"	0.050"
	or 410 S.S.)	Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
В	01 410 0.0.)	Aluminum, 6063-T5*	3/8"	0.063"
	1/4" steel Ultracon or Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Creteflex	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
Į	1/4" steel Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	1"	1-3/4"
	1/4 Steel Oillacon	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
С	1/4" steel Ultracon+	Concrete (min. 3 ksi)	1-3/16"	1-3/4"
	1/4 Steel Olliacon+	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
Ţ	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	1"	1-3/4"
	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
	1/4" steel Ultracon+	Concrete (min. 3 ksi)	2-1/2"	1-3/4"
	1/4" steel Ultracon+	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
D	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
Ĺ	174 Stock Oletenex	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
[1/4" steel Aggre-Gator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
	Stock riggio-dator	Grouted CMU, (ASTM C-90)	2"	2"

* MIN. OF 3 **THREADS BEYOND THE METAL** SUBSTRATE.

> "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU **APPLICATIONS**

Material	Min. F _y	Min. F _u
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	95 ksi
410 Screw	90 ksi	110 ksi
Elco/DeWalt Aggre-Gator®	57 ksi	96 ksi
Elco UltraCon®	155 ksi	177 ksi
3/16" DeWalt UltraCon+®	117 ksi	164 ksi
1/4" DeWalt UltraCon+®	148 ksi	164 ksi
410 SS Elco/Dewalt CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

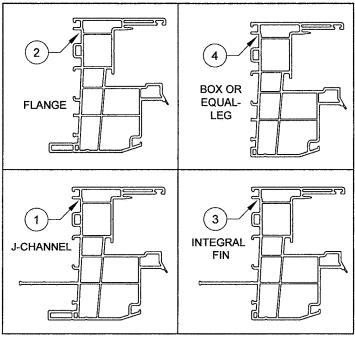
INSTALLATION NOTES, SEE SHEETS 3 & 4 FOR ILLUSTRATIONS:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3. THIS SHEET, FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, THIS SHEET. 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 TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

FIGURE B: FRAME TYPES



PRODUCT REVISED as complying with the Florida Building Code 20-0406.01 NOA-No.

Expiration Date 09/24/2025

00

Miami-Dade Product Control

Drawn By:

J ROSOWSKI

Rev:

C

HORIZONTAL ROLLER - LM 05/15/15 Scale: Drawing No.

MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

No. 58705 A. LYNN MILLER, P.E. P.E.# 58705

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600 **REGISTRATION #29296**

Description: GLASS/ANCHORS/FRAME OPTIONS

Series/Model:

AK - 03/27/20

HR-5510

C) REVISED ANCHOR TABLE, **CORRECTED TABLE 4.**

> NTS 2 OF 18

MD-HR5510-01

2-1/2" Ring-shank Roofing Nail P.T. Southern Pine (SG=0.55 3/8" 2-7/16" P.T. Southern Pine (SG=0.55) 1/2" 1-3/8" #10 Trusshead SMS Aluminum, 6063-T5* 3/8" 0.050" (steel, 18-8 S.S. Steel Stud, Gr. 33* 3/8" 0.0451" (18 Ga.) or 410 S.S.) Steel, A36* 3/8" 0.050" P.T. Southern Pine (SG=0.55 9/16" 1-3/8" #12 SMS Aluminum, 6063-T5* 3/8" 0.063" (steel, 18-8 S.S. Steel Stud, Gr. 33* 3/8" 0.050" or 410 S.S.)

Substrate

P.T. Southern Pine (SG=0.55

Steel, A36*

Min. Edge

Distance

3/8"

3/8"

Min.

Embedment*

2-7/16"

0.050"

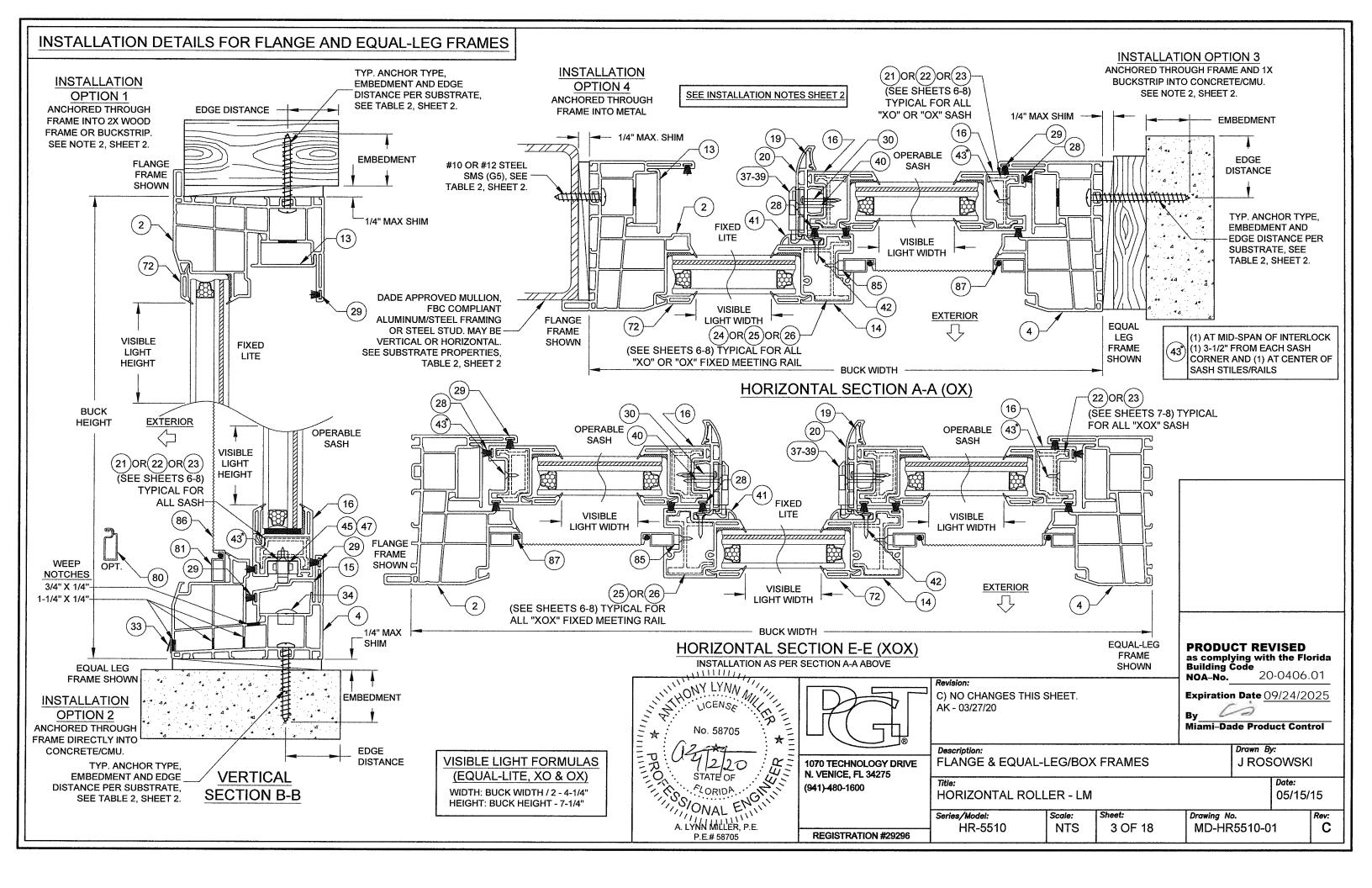
TABLE 3: ALLOWABLE ANCHORS THROUGH THE INTEGRAL FIN

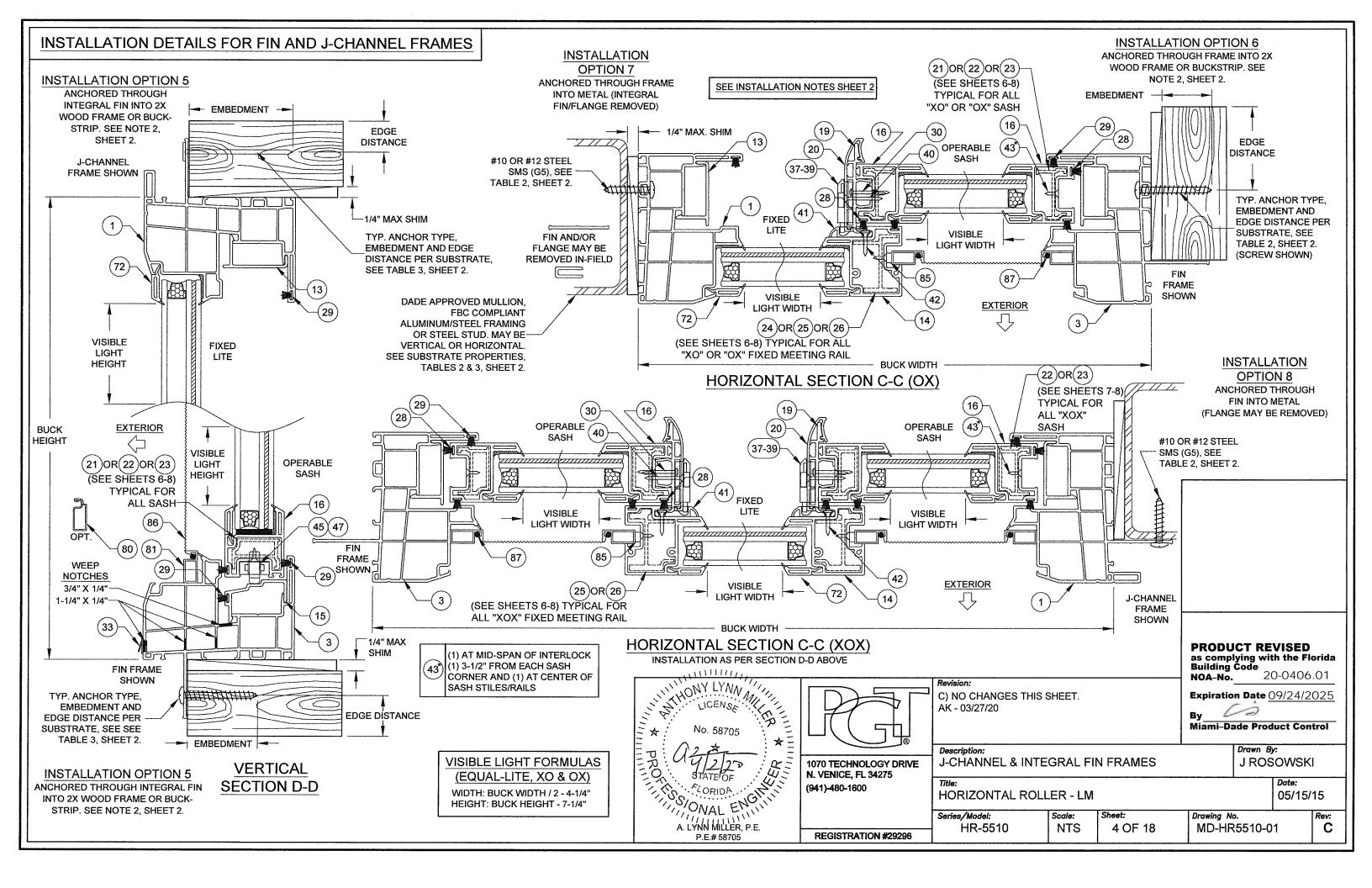
Anchor

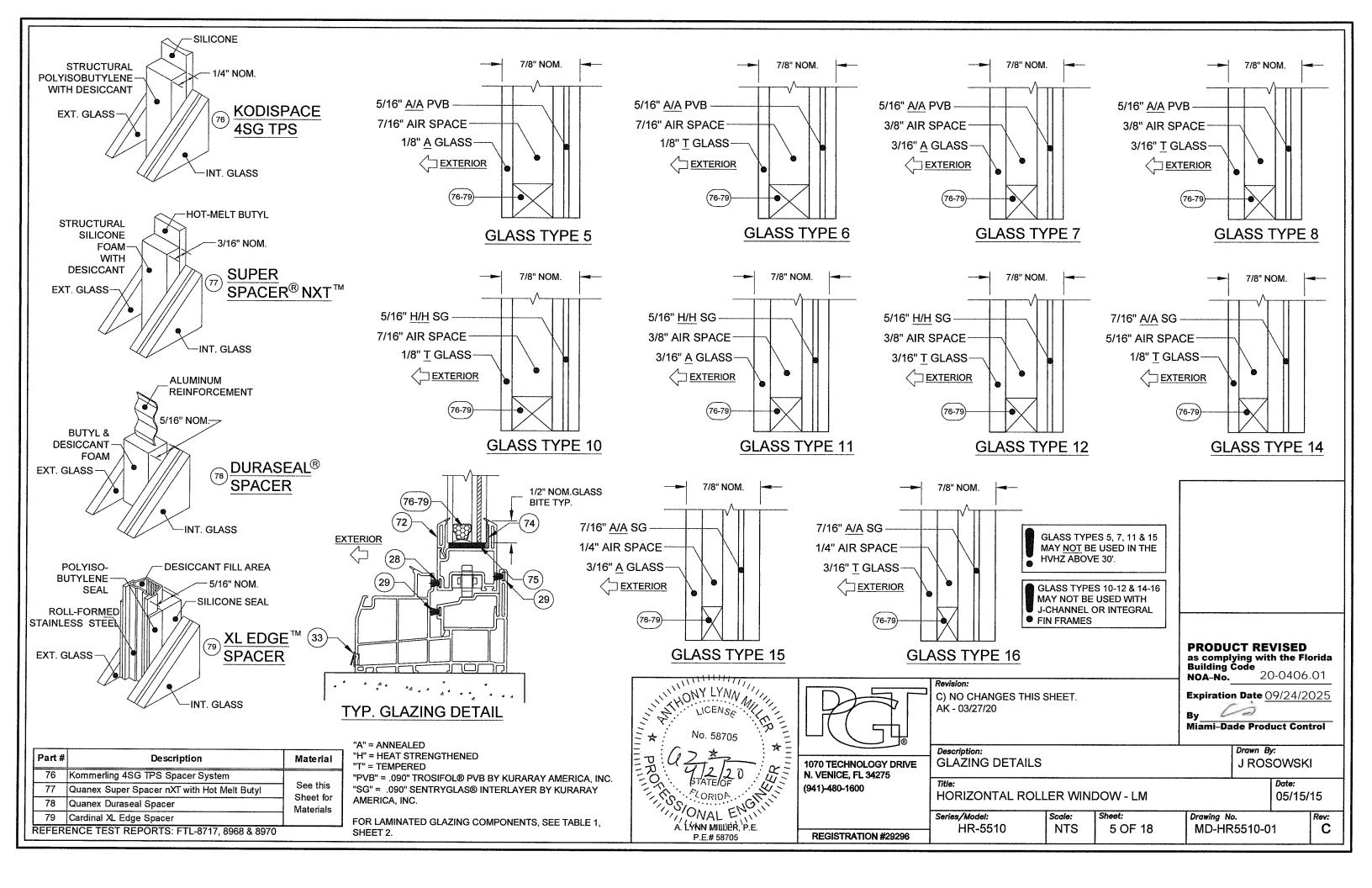
2-1/2" x .131" Common Nail

Group

4) SEE SHEET 18 FOR OPTIONAL EGRESS LOCK DETAILS.







	Index	to All De	sign Pres	sure and	Anchor	Quantity	Tables		
Config.	Max. Width	Max. Height	Glass Type	Reinf. Level	Design I	Pressure	Anchor	Quantity	
					Table #	Sheet #	Table #	Sheet #	
XO or OX		54"		1	6	6	17	9	
		54"	5 - 8	2	7	6	18	9	
	75"	· · ·	63"	5-0	3	8	7	19	10
			63"	1	4	11	8	21	11
		72"	6-8	4	10	8	20	10	
		75"	76"	10 - 12	4	12	8	22	11
- 1	75	/*	14 - 16	4	12	8	22 11		
			5 - 8	3	9	7	23	12	
	120"	63"	5 & 6	4	13	8	24	13	
хох			7 & 8	4	14	8	25	14	
1	4.400	691	10 - 12	4	15	8	26	15	
- 1	140"	63"	14 - 16	4	16	8	27	16	

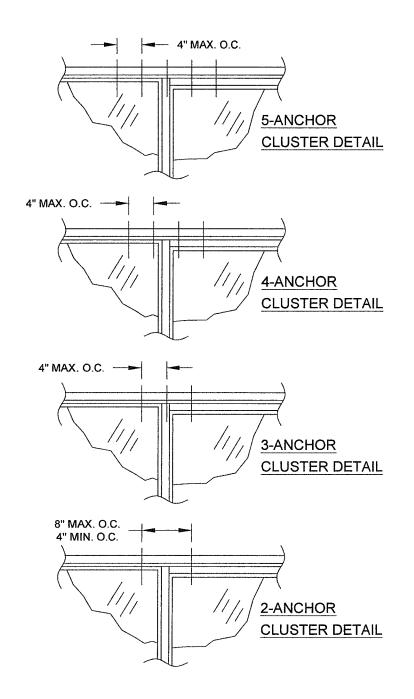


TABLE 6:

Glass Types 5 - 8	Design Pressure (lbs/ft²) for XO or OX Windows
Reinf. Level R1	All Buck Heights up to 54"
All Buck Widths up to 75"	+50 / -50

SEE TABLE 17 FOR ANCHORAGE



SECTION DETAIL

FOR WINDOWS WITH

LEVEL R2 REINFORCEMENT

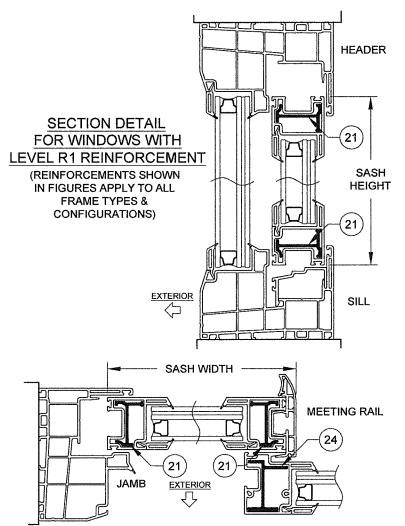
(REINFORCEMENTS SHOWN

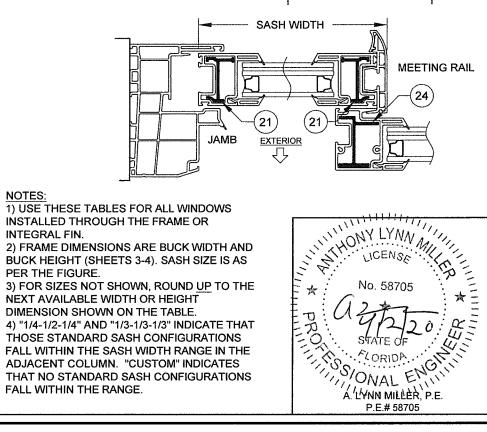
IN FIGURES APPLY TO ALL

FRAME TYPES & CONFIGURATIONS)

Glass Types 5 - 8	Design Pressure (lbs/ft²) for XO or OX Windows
Reinf. Level R2	All Buck Heights up to 54"
All Buck Widths up to 75"	+65 / -70

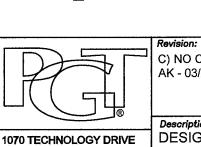
SEE TABLE 18 FOR ANCHORAGE





INTEGRAL FIN.

PER THE FIGURE.



1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600

REGISTRATION #29296

C) NO CHANGES THIS SHEET AK - 03/27/20

EXTERIOR

EXTERIOR

JAMB

SASH WIDTH

Description: **DESIGN PRESSURE TABLES**

Drawn By:

05/15/15 HORIZONTAL ROLLER - LM Drawing No. Series/Model: Scale: C

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.01

HEADER

SASH

HEIGHT

SILL

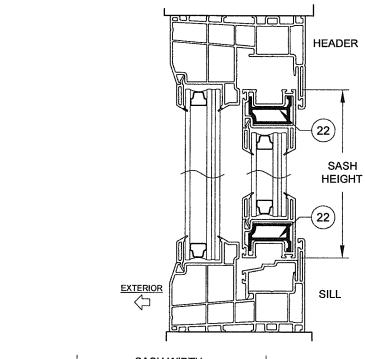
MEETING RAIL

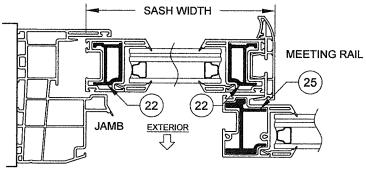
Expiration Date 09/24/2025

Miami-Dade Product Control

J ROSOWSKI

HR-5510 NTS 6 OF 18 MD-HR5510-01





SECTION DETAIL FOR WINDOWS WITH LEVEL R3 REINFORCEMENT

(REINFORCEMENTS SHOWN IN FIGURES APPLY TO ALL FRAME TYPES & **CONFIGURATIONS**)

TABLE 8:

Glass Types 5 - 8	Design Pressure (lbs/ft²) for XO or OX Windows
Reinf. Level R3	All Buck Heights up to 63"
All Buck Widths up to 75"	+50 / -50

SEE TABLE 19 FOR ANCHORAGE

TABLE 9:

Glass Types 5 - 8 Reinf. Level		- 8 Sash Sash Width		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					
		Configuration	Range (in)						
<u></u>	R3			48	8"	54	4"	6	3"
	35-1/4"	1/3-1/3-1/3	11.391 - 11.391	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	38"	1/3-1/3-1/3	12.308 - 12.308	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	45-1/8"	1/4-1/2-1/4	11.391 - 13.397	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	45-170	1/3-1/3-1/3	13.398 - 14.683	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	47-3/4"	1/4-1/2-1/4	11.391 - 12.297	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	47-3/4"	1/3-1/3-1/3	12.298 - 15.558	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	52-1/8"	Custom	11.391 - 12.016	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
igt.		1/4-1/2-1/4	12.017 - 13.397	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
×		1/3-1/3-1/3	13.398 - 17.016	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
Buck Width	60"	Custom	11.391 - 13.397	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
š		1/4-1/2-1/4	13.398 - 15.360	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
Window		1/3-1/3-1/3	15.361 - 19.641	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		Custom	11.391 - 13.397	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	75"	1/4-1/2-1/4	13.398 - 19.110	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		1/3-1/3-1/3	19.111 - 24.641	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		Custom	18.360 - 19.397	+50.0	-50.0	+50.0	-50.0	+49.1*	-49.1*
	96"	1/4-1/2-1/4	19.398 - 24.360	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		Custom	24.361 - 30.360	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
∟Ӏ	120"	1/4-1/2-1/4	** - 30.360	+50.0	-50.0	+50.0	-50.0	+49.1*	-49.1*

^{* +50/-50} FOR GLASS TYPES 6-8

SEE TABLE 23 FOR ANCHORAGE

** MIN. SASH SIZE = WINDOW WIDTH - 59.28

111111111 1070 TECHNOLOGY DRIVE STATE OF ON THE STATE OF THE ST N. VENICE, FL 34275 (941)-480-1600 P.E.# 58705

C) NO CHANGES THIS SHEET. AK - 03/27/20

as complying with the Florida Building Code NOA-No. 20-0406.01 Expiration Date 09/24/2025

PRODUCT REVISED

Miami-Dade Product Control

DESIGN PRESSURE TABLES

J ROSOWSKI

HORIZONTAL ROLLER - LM

05/15/15 Rev:

C

HR-5510 NTS

Description:

REGISTRATION #29296

Sheet: Series/Model: Drawing No. 7 OF 18 MD-HR5510-01

1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.

2) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE. 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

4)"1/4-1/2-1/4" AND "1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

TADI	_	10.	

TABLE 15:

Glass Types

Reinf, Level

60"

75"

96"

120"

TABLE 16: Glass Types

14 - 16

Reinf. Level

60"

75"

96"

120"

140"

R4

10 - 12

TABLE 10:						
Glass Types 6 - 8	Design Pressure (lbs/ft ²) for XO or OX Windows					
Reinf. Level R4	All Buck Heights up to 72"					
All Buck Widths up to 75"	+50 / -50					

Sash

Configuration

Custom

1/4-1/2-1/4

1/3-1/3-1/3

Custom

1/4-1/2-1/4

1/3-1/3-1/3

Custom

1/4-1/2-1/4

Custom

1/4-1/2-1/4

1/3-1/3-1/3

SEE TABLE 20 FOR ANCHORAGE

Sash

Width

Range (in)

11.391 - 13.397

13.398 - 15.360

15.361 - 19.641

11.391 - 13.397

13.398 - 19.110

19.111 - 24.641

17.641 - 19.397

19.398 - 24.360

24.361 - 31.641

29.641 - 32.515

32.516 - 39.641

Sash

Width

Range (in)

11.391 - 13.397

13.398 - 15.360

15.361 - 19.641

11.391 - 13.397

13.398 - 19.110

19.111 - 24.641

17.641 - 19.397

19.398 - 24.360

24.361 - 31.641

29.641 - 32.515

32.516 - 39.641

- 39.641

**

- 39.641

48"

+65.0 -110.0

+65.0 | -110.0

48

+65.0 | -110.0

+65.0 -110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

-	- A		_	4	
	м	ы	_	-7	٦,

	JLL 11.						
GI	ass Types 5 - 8	ا	_	Press or OX	•	•	٢
R	einf. Level		V	/indow B	uck Heig	ht	
	R4	48	3"	54	4"	6	3"
_	25-1/2"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
/idth	28"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
Buck Width	36"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
Buc	42"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
Š	48"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
Window	60"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	75"	+65.0	-70.0	+65.0	-70.0	+64.3*	-64.3*

63"

+65.0 -110.0

+65.0* -104.6*

+65.0 -110.0

+65.0* -104.6*

+65.0 -110.0

63"

+65.0 -110.0

+65.0 -102.9

-110.0

-110.0

-109.3

-102.0

-97.4

-92.0

-88.4

-84.3

-80.8

-80.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

-110.0

-110.0

-110.0

-110.0

+65.0

+65.0

+65.0

+65.0

-110.0 | +65.0* | -109.5*

+65/-70 FOR GLASS TYPES 6-8 SEE TABLE 21 FOR ANCHORAGE

Design Pressure (lbs/ft²) for XOX

Windows

Window Buck Height

54"

+65.0 -110.0 +65.0 -110.0 +65.0 -110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

+65.0 -110.0 +65.0 -110.0 +65.0* -104.6*

Design Pressure (lbs/ft²) for XOX

Windows

Window Buck Height

54"

+65.0 -110.0

+65.0 -110.0

+65.0 -110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-110.0

-109.8

-105.0

-105.0

SEE TABLE 27 FOR ANCHORAGE

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

+65.0

TABLE 12:

	ass Types -12 & 14-16		_		ure (lbs Windo	•	r
R	einf. Level		V	/indow B	uck Heig	ht	
	R4	5	4"	6	3"	70	6"
,	25-1/2"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
Width	28"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
ık V	36"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
Buck	42"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
yok	48"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
Window	60"	+65.0	-110.0	+65.0	-110.0	+65.0	-93.9
	75"	+65.0	-110.0	+65.0	-103.5	+65.0	-80.0

SILL

MANAGE 1111

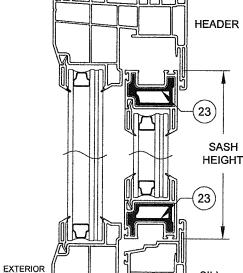
No. 58705

A. LYNN MILLER, P.E.

P.E.# 58705

LICENSE MIL

SEE TABLE 22 FOR ANCHORAGE



Custom * +65/-110 FOR GLASS TYPES 11 & 12

Sash

Configuration

1/4-1/2-1/4

1/3-1/3-1/3

Custom

1/4-1/2-1/4

1/3-1/3-1/3

Custom

1/4-1/2-1/4

Custom

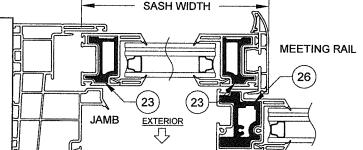
1/4-1/2-1/4

1/3-1/3-1/3

Custom

SEE TABLE 26 FOR ANCHORAGE

** MIN. SASH SIZE = WINDOW WIDTH - 60.72



SECTION DETAIL FOR WINDOWS WITH LEVEL R4 REINFORCEMENT

TABLE 13:

(REINFORCEMENTS SHOWN IN FIGURES APPLY TO ALL FRAME TYPES & CONFIGURATIONS)

GLASS TYPES 10-12 & 14-16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

Glass Types Sash Design Pressure (lbs/ft²) for XOX Windows 5 & 6 Sash Width Reinf, Level Configuration Window Buck Height Range (in) 36' 63" Custom 11.391 - 13.397 -70.0 +65.0 -70.0 +65.0 -70.0 +65.0 -65.3 +65.0 1/4-1/2-1/4 13.398 - 15,360 +65.0 -70.0 +65.0 -70.0 +65.0 -70.0 +65.0 -70.0 1/3-1/3-1/3 15.361 - 19.641 +65.0 -70.0 +65.0 -70.0 +65.0 -70.0 +65.0 -70.0 Custom 11.391 - 13.397 +65.0 -70.0 +65.0 +63.3 -63.3 +53.2 -69.6 -53.2 75" 13.398 - 19.110 1/4-1/2-1/4 +65.0 -70.0 +65.0 -70.0 +65.0 -66.5 +56.2 -56.2 1/3-1/3-1/3 19.111 - 24.641 +65.0 -70.0 +65.0 -70.0 +65.0 -70.0 +65.0 -66.0 Custom 18.360 - 19.397 +65.0 -70.0 +59.9 -59.9 +55.5 -55.5 +49.1 -49.1 19.398 - 24.360 +65.0 1/4-1/2-1/4 -70.0 +62.1 -62.1 +58.0 -58.0 +50.3 -50.3 24.361 - 30.360 Custom +65.0 -70.0 +65.0 -70.0 +65.0 -67.3 +57.0 -57.0 120" 1/4-1/2-1/4 - 30.360 +65.0 -70.0 +59.9 -59.9 +55.5 -55.5 +49.1 -49.1

** MIN. SASH SIZE = WINDOW WIDTH - 59.28

SEE TABLE 24 FOR ANCHORAGE

TAI	BLE 14:	IVIIIN, V	SASTI SIZE -	2	2		-				
	ass Types 7 & 8	Sash	Sash Width	[Design	Pressu	re (lbs	/ft²) for	XOX W	indow	s
Re	einf. Level	Configuration	Range (in)			V	/indow B	uck Heig	ht		
	R4			3	6"	4	3"	5-	4''	6	3"
	60"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	""	1/4-1/2-1/4	13.398 - 15.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
맕		1/3-1/3-1/3	15.361 - 19.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
Width		Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
Buck	75"	1/4-1/2-1/4	13.398 - 19.110	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
E E		1/3-1/3-1/3	19.111 - 24.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
Window		Custom	18.360 - 19.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0*	-67.2*
₹	96"	1/4-1/2-1/4	19.398 - 24.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0*	-68.8*
		Custom	24.361 - 30.360	+65.0	-70.0	÷65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	120"	1/4-1/2-1/4	** - 30.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0*	-67.2*

SEE TABLE 25 FOR ANCHORAGE * +65/-70 FOR GLASS TYPE 8

** MIN. SASH SIZE = WINDOW WIDTH - 59.28

PRODUCT REVISED

as complying with the Florida **Building Code** NOA-No.

Expiration Date 09/24/2025

20-0406.01

Rev:

C

Miami-Dade Product Control

Drawn By:

Description: **DESIGN PRESSURE TABLES**

HORIZONTAL ROLLER - LM

C) NO CHANGES THIS SHEET

J ROSOWSKI

Date: 05/15/15

Series/Model:

Scale: NTS

3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

4) "1/4-1/2-1/4" AND "1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN AS ALLOWED BY GLASS TYPE.

2) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE.

REGISTRATION #29296

1070 TECHNOLOGY DRIVE

N. VENICE, FL 34275

(941)-480-1600

HR-5510

Revision:

AK - 03/27/20

8 OF 18

Drawing No. MD-HR5510-01

Gl	ass Types		:				Ancho	or G)uantities	fo	r XO or O	X V	Vindows					
	5 - 8	Sash	30" Heig	ht	36" Heigh	nt	48" Heigh		54" Heigh		30" Heigh		36" Heigh		48" Heigh	nt	54" Heigh	ht
Re	einf. Level	Width (in)	Head & Sill	Jamb														
	R1		Q OIII	احا		4	Group A		& OIII	므	Q OIII	그			Group C	וכן	& Oili	<u> </u>
	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	·	3	1+C2+1	3
Width	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
× ≥	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Buck	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Window	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Vinc	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
	75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
					Anch	or	Group B						Anch	or	Group D			
_	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Width	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
× ×	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Buck	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Window	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Ninc	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
	75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3

SEE TABLE 6 FOR DESIGN	PRESSURE
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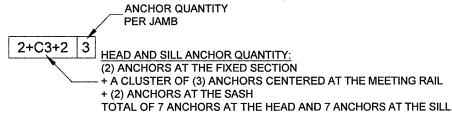
Gla	ass Types						Ancho	or C	Quantities	s fo	r XO or O	ΧV	Vindows					
	5 - 8	Sash	30" Heigl	ht	36" Heigl	ht	48" Heigl	nt	54" Heigl	nt	30" Heigl	nt	36" Heig	ht	48" Heigl	nt	54" Heigl	nt
Re	einf. Level	Width (in)	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb						
	R2				Anch	or	Group A						Anch	or	Group C			
	25-1/2"	12.147				•					1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Width	28"	13.397									1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
k W	36"	17.397									1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Buc	42"	20.397			No	t Al	llowed				1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
δ	48"	23.397									1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Vind	60"	29.397								a constitution of the	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
	75"	36.897									2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
					Anch	or	Group B						Anch	or	Group D			
	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
/igth	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
X	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Buc	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
No	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
Vinc	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
	75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
MINI	Not Allowed 1																	

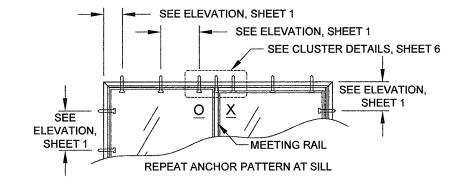
COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

Max. Anchor O.C. Anchor Anchor Group E Group F Spacing for "Integral-Fin" Installation 3.8" 4"

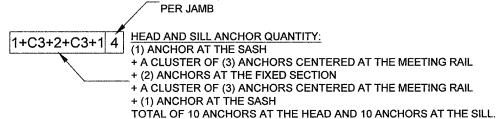
GUIDE TO USING ANCHOR QUANTITY TABLES

FOR OX WINDOWS (XO SIMILAR):

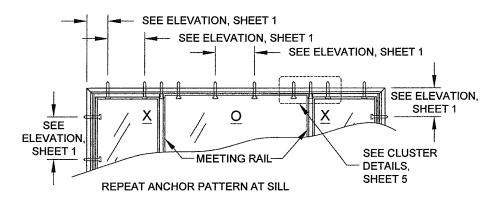




FOR XOX WINDOWS:



ANCHOR QUANTITY



Max. Anchor O.C. Anchor Group F Spacing for "Integral-Fin" Installation 4"

1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

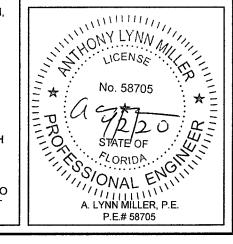
PRODUCT REVISED as complying with the Florida Building Code 20-0406.01 NOA-No.

Expiration Date 09/24/2025

Miami-Dade Product Control

C) NO CHANGES THIS SHEET. AK - 03/27/20

O 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600 05/15/15 MD-HR5510-01 J ROSOWSKI Date Drawr Ву DWG. 2 - LM P HORIZONTAL ROLLER တ ANCHOR QUANTITY Sheet



Series Desc. Title

																				· · · · · · · · · · · · · · · · · · ·	
ss Types								Ancho	r Q	uantities	fo	r XO or O	ΧV	Vindows							
5-8	Sash	30" Heigh	ıt	36" Heigh	t	48" Heigh	t	54" Heigh	t	63" Heigh	it	30" Heigh	ıt	36" Heigh	nt	48" Heigh	ıt	54" Heigh	ıt	63" Heigh	nt
inf. Level	Width (in)	Head & Sill	Jamb	Head & Sill		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
R3			<u> </u>			nchor Gro	up .	A							Α	nchor Gro	ир	С			
25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
	<u> </u>				Δ	nchor Gro	up	В							Α	nchor Gro	up	D			
25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
	5 - 8 nf. Level R3 25-1/2" 28" 36" 42" 48" 60" 75" 25-1/2" 28" 36" 42" 48" 60"	5 - 8 Sash Width (in) R3 25-1/2" 12.147 28" 13.397 36" 17.397 42" 20.397 48" 23.397 60" 29.397 75" 36.897 25-1/2" 12.147 28" 13.397 36" 17.397 42" 20.397 42" 20.397 48" 23.397 60" 29.397	5 - 8 Sash Width (in) 30" Height Head & Sill 25-1/2" 12.147 1+C2+1 28" 13.397 1+C2+1 36" 17.397 1+C2+1 42" 20.397 1+C2+1 60" 29.397 2+C2+2 75" 36.897 2+C2+2 25-1/2" 12.147 1+C2+1 28" 13.397 1+C2+1 36" 17.397 1+C2+1 42" 20.397 1+C2+1 42" 20.397 1+C2+1 48" 23.397 1+C2+1 60" 29.397 2+C2+2	5 - 8 Sash Width (in) 30" Height Mr. Level R3 Sash Width (in) Height 25-1/2" 12.147 1+C2+1 2 28" 13.397 1+C2+1 2 36" 17.397 1+C2+1 2 42" 20.397 1+C2+1 2 60" 29.397 2+C2+2 2 75" 36.897 2+C2+2 2 25-1/2" 12.147 1+C2+1 2 28" 13.397 1+C2+1 2 36" 17.397 1+C2+1 2 42" 20.397 1+C2+1 2 48" 23.397 1+C2+1 2 60" 29.397 2+C2+2 2	Sash Width (in) 30" Height Nidth (in) 30" Height As Sill 36" Height As Sill 25-1/2" 12.147 1+C2+1 2 1+C2+1 2 1+C2+1 28" 13.397 1+C2+1 2 1+C2+1 36" Height As Sill 1+C2+1 2 1+C2+1 2 1+C2+1 2 1+C2+1 2 1+C2+1 2 1+C2+1 36" 1+C2+1 2 1+C2+1 2<	Sash Width (in) 30" Height 36" Height Head & Sill Eg Head & Sill Per Sill A 25-1/2" 12.147 1+C2+1 2 1+C2+1 3 42" 20.397 1+C2+1 2 1+C2+1 2 1+C2+1 2 1+C2+1 3 25-1/2" 12.147 1+C2+1 2 1+C2+1 2 1+C2+1 3 25-1/2" 12.147 1+C2+1 2 1+C2+1 3 28" 13.397 1+C2+1 2 1+C2+1 3 42" 20.397 1+C2+1 2 1+C2+1 3 42" 20.397 1+C2+1 2 1+C2+1 3	5 - 8 Sash Width (in) 30" Height (in) 36" Height (in) 48" Anchor Grow (in) 25-1/2" 12.147 1+C2+1 2 1+C2+1 3 1+C2+1 28" 13.397 1+C2+1 2 1+C2+1 3 1+C2+1 48" 23.397 1+C2+1 2 1+C2+1 3 1+C2+1 48" 23.397 2+C2+2 2 2+C2+2 3 2+C2+2 75" 36.897 2+C2+2 2 2+C2+2 3 2+C2+2 25-1/2" 12.147 1+C2+1 2 1+C2+1 3 1+C2+1 28" 13.397 1+C2+1 2 1+C2+1 3 1+C2+1 36" 17.397 1+C2+1 2 1+C2+1 3 1+C2+1 42" 20.397 1+C2+1 2 1+C2+1 3 1+C2+1 48" 23.397	Sash Width (in)	Sash Width (in) Sash Width (in) Head & Sill Sash Width Head & Sill H	Sash Width (in) Sash Width (in) Head & Sill Sash Will Sash Wash Wash Wash Wash Wash Wash Wash W	Sash Width (in)	Sash Width (in) Height Sash Width (in) Head & Sill E H	Sash Width (in) Head & Sill Fe	Sash Width (in) Head & Sill E	Sash Width (in) Sash Width (in) Head & Sill Sash Width (in) Head & Sa	Sash Width (in) Sash Width (in) Head & & Sill & & Head & & Head & & Sill & & & Sill & & & Sill & & & & Sill & & & & & & & & & & & & & & & & & &	Sash Width Head Sash Width Head Sasi Height Sasi Head Head Sasi Head Sasi Head Head Sasi Head Sasi Head Sasi Head Head Head Sasi Head Head	Sash Width Head & Sill & S	Sash Width (in) Fig. Sash Width (in) Sash Width (in) Head & Sill & Sash Width (in) Head & Sill & Sash Width (in) Head & Sill & Sash & S	Sash Width (in) Feed Sash Width (in) Sas	Sash Width (in) Fe Sash Width (in) Sa' Height S

Spacing fo	chor O.C. r "Integral- tallation
Anchor Group E	Anchor Group F
3.5"	4"

Max. Anchor O.C. Spacing for "Integral-

Fin" Installation

Anchor
Group E Group F

3.2"

4"

TAB	LE 20:																			-						
Gla	ass Types										Ancho	r C	Quantities	fo	XO or O	X V	Vindows									
	6 - 8	Sash	30" Heigh	nt	36" Heigh	nt	48" Heigh	nt	54" Heigh	nt	63" Heigh	t	72" Heigh	nt	30" Heigl	ht	36" Heigh	nt	48" Heigh	nt	54" Heig	ht	63" Heigh	nt	72" Heigl	
Re	einf. Level	Width (in)	Head & Sill	Jamb																						
	R4		Q 0111	121	<u> </u>	7			Group A	ات	<u> </u>	,		1 -		1			Anch		Group C	1 7				
	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5
Width	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5
N N	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5
Window Buck	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5
ð	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C3+1	5
lind	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+2	4	2+C3+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+2	4	2+C3+2	5	2+C4+2	5
>	75"	36.897	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5
	<u> </u>						Anch	or	Group B										Anch	or	Group D					
	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5		5
Width	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5		5
× ×	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5		5
Buck	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5		5
	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C3+1	5
Window	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+2	4	2+C3+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+2	4	2+C3+2	5	2+C4+2	5
>	75"	36.897	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5
		<u> </u>	14:																		SEI	E TA	BLE 10 FOR	DES	SIGN PRESS	URE

NOTES:

1) FRAME DIMENSIONS
ARE BUCK WIDTH AND
BUCK HEIGHT (SEE
SHEETS 3-4). SASH SIZE IS
AS PER THE FIGURES ON
SHEETS 6-8.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.

AK - 03/27/20

product revised as complying with the Florida Building Code NOA-No. 20-0406.01

Expiration Date 09/24/2025

Miami-Dade Product Control

C) NO CHANGES THIS SHEET.

O

MD-HR5510-01

Sheet 10 OF 18

NTS

HR-5510

Series Desc. Title

No. 58705

No. 58705

No. 58705

STATE OF

CORIDA

A. LYNN MILLER, P.E.

P.E.# 58705

MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

TAB	LE 21:																					
Gla	ass Types								Ancho	r C	uantities	fo	r XO or O	ΧV	Vindows							
	5 - 8	Sash	30" Heigh	nt	36" Heigh	nt	48" Heigh	ıt	54" Heigh	nt	63" Heigh	nt	30" Heigi	nt	36" Heigh	nt	48" Heig	ht	54" Heig	ht	63" Heigl	ht
Re	einf. Level	Width (in)	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
	R4					A	nchor Gro	up /	A		· · · · · · · · · · · · · · · · · · ·			·		Α	nchor Gro	up	С			
	25-1/2"	12.147			'-''						11.11. 11. 11. 1. 1. 1. 1. 1. 1. 1. 1. 1		1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
lgt.	28"	13.397											1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
Buck Width	36"	17.397											1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
Buc	42"	20.397					Not Allow	ed					1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
οw	48"	23.397										CHARGE CO.	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
Window	60"	29.397											2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
>	75"	36.897											2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4
						A	nchor Gro	up	В					•		Α	nchor Gro	up	D	<u></u>		
	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
/idth	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
× ×	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
Buck Width	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
Window	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
>	75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4

Max. Anchor O.C. Anchor Group F Spacing for "Integral-Fin" Installation 4"

> **PRODUCT REVISED** as complying with the Florida Building Code NOA-No. 20-0406.01 NOA-No.

Expiration Date 09/24/2025

Miami-Dade Product Control

C) NO CHANGES THIS SHEET. AK - 03/27/20

O

MD-HR5510-01 €

DWG

11 OF 18

NTS

HR-5510

Series Desc. Title

05/15/15 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600 J ROSOWSKI Date סרמאר By ANCHOR QUANTITY TABLES HORIZONTAL ROLLER - LM

No. 58705 A. LYNN MILLER, P.E.
P.E.# 58705

ΓAΒL	_E 22:																	SEE TABL	E 11	FOR DESIG	N PF	RESSURE			
	ass Types									Ancho	or C	Quantities	s fo	r XO or O	XV	Vindows									
10-	12 & 14-16	Sash	30" Height	36" Heig	ht	48" Heigh	ıt	54" Heigh	t	63" Heig	ht	76" Heig	ht	30" Heigh	nt	36" Heig	nt	48" Heigl	nt	54" Heig	ht	63" Heig	ht	76" Heigh	ht
Re	einf. Level R4	Width (in)	Head Wamp	Head & Sill	Jamb																				
	17.4					Anch	or (Group A										Anch	or (Group C					
	25-1/2"	12.147												1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5
Width	28"	13.397												1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5
≥ 	36"	17.397												1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
Buck	42"	20.397				No	t Al	lowed						1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
	48"	23.397												1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C4+1	5	1+C4+1	5
Window	60"	29.397												2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5
>	75"	36.897												2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5
						Anch	or (Group B			~~~~				LI		L	Anch	or (Group D		<u> </u>			<u> </u>
	25-1/2"	12.147	1+C2+1 2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5
Width	28"	13.397	1+C2+1 2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5
ا ک	36"	17.397	1+C2+1 2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
Buck	42"	20.397	1+C2+1 2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
8	48"	23.397	1+C2+1 2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C4+1	5	1+C4+1	5	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C4+1	5	1+C4+1	5
Window	60"	29.397	2+C2+2 2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5
5	75"	36.897	2+C2+2 2	2+C2+2	3	2+C3+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5

MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

GLASS TYPES 10-12 & 14-16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN **FRAMES**

FRAME DIMENSIONS RE BUCK WIDTH AND UCK HEIGHT (SEE HEETS 3-4). SASH SIZE IS S PER THÉ FIGURES ON HEETS 6-8.

FOR SIZES NOT HOWN, ROUND UP TO HE NEXT AVAILABLE VIDTH OR HEIGHT IMENSION SHOWN ON HE TABLE.

SEE SHEET 9 FOR A SEE TABLE 12 FOR DESIGN PRESSURE GUIDE TO USING THESE

TABLE 23:						MINIMUM	ANCHOR QUANTI	TIES SHOWN. AL	L ANCHORAGE M	UST ALSO COMPL	Y WITH THE MA	K. O.C. SPACING SI	HOWN ON THE E	LEVATIONS.
Glass Types 5 - 8							An	chor Quantities	s for XOX Wind	ows				
J-0	Sash	Sash Width	24" Height	30" Height	36" Height	48" Height	54" Height	63" Height	24" Height	30" Height	36" Height	48" Height	54" Height	63" Height
Reinf. Level R3	Configuration	Range (in)	Head & Sill	Head & Sill	5	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill
35-1/4"	1/3-1/3-1/3	11.391 - 11.391	4.02.0.02.4	24.02.0.00.4		r Group A				1.		r Group C		
38"	/3-/3-/3 1/3-1/3-1/3	12.308 - 12.308		2 1+C2+0+C2+1 2 2 1+C2+0+C2+1 2			4 1+C2+0+C2+1 4							
36	1/4-1/2-1/4	11.391 - 13.397						1+C2+0+C2+1 4		the same and the s		3 1+C2+0+C2+1 4		
45-1/8"	1/3-1/3-1/3	13.398 - 14.683					4 1+C2+0+C2+1 4				ļ		<u> </u>	
	1/4-1/2-1/4	11.391 - 12.297	1+C2+0+C2+1 2	2 1+C2+0+C2+1 2 2 1+C2+1+C2+1 2				1+C2+0+C2+1 4				3 1+C2+0+C2+1 4		
47-3/4"	1/3-1/3-1/3	12.298 - 15.558				3 1+C2+1+C2+1	4 1+C2+1+C2+1 4	1+C2+1+C2+1 4		1	<u> </u>	3 1+C2+1+C2+1 4	1	
	Custom	12.296 - 15.556	 		2 1+C2+0+C2+1 :		4 1+C2+0+C2+1 4			1+C2+0+C2+1 2		1+C2+0+C2+1 4	 	
€ 52-1/8"	1/4-1/2-1/4	12.017 - 13.397	 		2 1+C2+1+C2+1 :			1+C2+1+C2+1 4		1+C2+1+C2+1 2		3 1+C2+1+C2+1 4		
Σ̄	1/3-1/3-1/3		<u> </u>					1+C2+1+C2+1 4		1+C2+1+C2+1 2		3 1+C2+1+C2+1 4		
Buck	/3-/3-/3 Custom	13.398 - 17.016 11.391 - 13.397					4 1+C2+0+C2+1 4			1+C2+0+C2+1 2	 	3 1+C2+0+C2+1 4		
മ് } 60"	1/4-1/2-1/4	13.398 - 15.360						1+C2+1+C2+1 4		1+C2+1+C2+1 2		3 1+C2+1+C2+1 4	<u> </u>	
Modern Mindows								1+C2+1+C2+1 4		1+C2+1+C2+1 2		1+C2+1+C2+1 4		
≶├──	1/3-1/3-1/3	15.361 - 19.641			2 1+C2+0+C2+1 :		4 1+C2+0+C2+1 4					1+C2+0+C2+1 4		
75"	Custom	11.391 - 13.397	1+C2+3+C2+1 2					1+C2+3+C2+1 4		1+C2+3+C2+1 2	. 52 5 52 1 6	3 1+C2+3+C2+1 4		
75"	1/4-1/2-1/4	13.398 - 19.110						1+C2+2+C2+1 4		}	1+C2+2+C2+1 3	3 1+C2+2+C2+1 4		
	1/3-1/3-1/3	19.111 - 24.641			2 1+C2+1+C2+1 :		4 1+C2+1+C2+1 4	 	4		1+C2+1+C2+1 3	1+C2+1+C2+1 4		4 1+C2+1+C2+
	Custom	18.360 - 19.397	1+C2+3+C2+1 2			3 1+C2+3+C2+1		1+C3+3+C3+1 4		1+C2+3+C2+1 2		1+C2+3+C2+1 4	1+C2+3+C2+1	4 1+C2+3+C2+
96"	1/4-1/2-1/4	19.398 - 24.360					4 1+C2+3+C2+1 4			1+C2+3+C2+1 2		1+C2+3+C2+1 4	1+C2+3+C2+1	4 1+C2+3+C2+
	Custom	24.361 - 30.360	·		2 1+C2+2+C2+1 (4 1+C2+2+C2+1 4		1+C2+2+C2+1 2	1+C2+2+C2+1 2	1+C2+2+C2+1 3	1+C2+2+C2+1 4	1+C2+2+C2+1	4 1+C2+2+C2+
120"	1/4-1/2-1/4	** - 30.360	1+C2+3+C2+1 2	2 1+C2+3+C2+1 2	2 1+C2+3+C2+1 3	3 1+C2+3+C2+1	4 1+C2+3+C2+1 4	1+C3+3+C3+1 4	1+C2+3+C2+1 2	1+C2+3+C2+1 2	1+C2+3+C2+1 3	1+C2+3+C2+1 4	1+C2+3+C2+1	4 1+C2+3+C2+
	1 4/4/27					r Group B						r Group D		
35-1/4"	1/3-1/3-1/3						4 1+C2+0+C2+1 4		1+C2+0+C2+1 2	1+C2+0+C2+1 2	1+C2+0+C2+1 3	1+C2+0+C2+1 4	1+C2+0+C2+1 4	4 1+C2+0+C2+
38"	1/3-1/3-1/3	12.308 - 12.308	 	2 1+C2+0+C2+1 2		3 1+C2+0+C2+1		1+C2+0+C2+1 4	<u> </u>			1+C2+0+C2+1 4	l	
45-1/8"	1/4-1/2-1/4	11.391 - 13.397			2 1+C2+0+C2+1 3		4 1+C2+0+C2+1 4	1+C2+0+C2+1 4	1+C2+0+C2+1 2	1+C2+0+C2+1 2	1+C2+0+C2+1 3	1+C2+0+C2+1 4	1+C2+0+C2+1 4	4 1+C2+0+C2+
	1/3-1/3-1/3			1+C2+0+C2+1 2			4 1+C2+0+C2+1 4	i i				1+C2+0+C2+1 4		
47-3/4"	1/4-1/2-1/4	11.391 - 12.297	1+C2+1+C2+1 2	2 1+C2+1+C2+1 2			4 1+C2+1+C2+1 4		1+C2+1+C2+1 2	1+C2+1+C2+1 2	1+C2+1+C2+1 3	1+C2+1+C2+1 4	1+C2+1+C2+1 4	1+C2+1+C2+
	1/3-1/3-1/3			1+C2+0+C2+1 2			4 1+C2+0+C2+1 4			1+C2+0+C2+1 2	1+C2+0+C2+1 3	1+C2+0+C2+1 4	1+C2+0+C2+1 4	1+C2+0+C2+
اء	Custom		1+C2+1+C2+1 2	1+C2+1+C2+1 2	1+C2+1+C2+1 3	3 1+C2+1+C2+1	4 1+C2+1+C2+1 4	1+C2+1+C2+1 4	1+C2+1+C2+1 2	1+C2+1+C2+1 2	1+C2+1+C2+1 3	1+C2+1+C2+1 4	1+C2+1+C2+1 4	1+C2+1+C2+
등 52-1/8"	1/4-1/2-1/4	12.017 - 13.397	1+C2+1+C2+1 2		1+C2+1+C2+1 3		4 1+C2+1+C2+1 4	1+C2+1+C2+1 4		1+C2+1+C2+1 2	1+C2+1+C2+1 3	1+C2+1+C2+1 4	1+C2+1+C2+1 4	1+C2+1+C2+
Buck Width 52-1/8"	1/3-1/3-1/3	13.398 - 17.016					4 1+C2+0+C2+1 4	 		1+C2+0+C2+1 2	1+C2+0+C2+1 3	1+C2+0+C2+1 4	1+C2+0+C2+1 4	1+C2+0+C2+1
_	Custom	11.391 - 13.397				3 1+C2+1+C2+1 4				1+C2+1+C2+1 2	1+C2+1+C2+1 3	1+C2+1+C2+1 4	1+C2+1+C2+1 4	1+C2+1+C2+1
<u> 60</u> "	1/4-1/2-1/4	13.398 - 15.360	 			3 1+C2+1+C2+1 4			1+C2+1+C2+1 2	1+C2+1+C2+1 2	1+C2+1+C2+1 3	1+C2+1+C2+1 4	1+C2+1+C2+1 4	1+C2+1+C2+1
ž – – –	1/3-1/3-1/3			1+C2+0+C2+1 2			4 1+C2+0+C2+1 4		KQ			1+C2+0+C2+1 4	1+C2+0+C2+1 4	1+C2+0+C2+1
		11.391 - 13.397		 	· · · · · · · · · · · · · · · · · · ·		4 1+C2+3+C2+1 4		1+C2+3+C2+1 2	1+C2+3+C2+1 2	1+C2+3+C2+1 3	1+C2+3+C2+1 4	1+C2+3+C2+1 4	1+C2+3+C2+1
75"	1/4-1/2-1/4	13.398 - 19.110				1+C2+2+C2+1	4 1+C2+2+C2+1 4	1+C2+2+C2+1 4	1+C2+2+C2+1 2	1+C2+2+C2+1 2	1+C2+2+C2+1 3	1+C2+2+C2+1 4	1+C2+2+C2+1 4	1+C2+2+C2+1
	1/3-1/3-1/3		1+C2+1+C2+1 2				4 1+C2+1+C2+1 4		1+C2+1+C2+1 2	1+C2+1+C2+1 2	1+C2+1+C2+1 3	1+C2+1+C2+1 4	1+C2+1+C2+1 4	1+C2+1+C2+1
	Custom		1+C2+3+C2+1 2	1+C2+3+C2+1 2	1+C2+3+C2+1 3	3 1+C2+3+C2+1 4	4 1+C2+3+C2+1 4	1+C2+3+C2+1 4	1+C2+3+C2+1 2	1+C2+3+C2+1 2	1+C2+3+C2+1 3	1+C2+3+C2+1 4	1+C2+3+C2+1 4	1+C2+3+C2+1
96"	1/4-1/2-1/4	19.398 - 24.360	1+C2+3+C2+1 2	1+C2+3+C2+1 2	1+C2+3+C2+1 3	1+C2+3+C2+1 4	4 1+C2+3+C2+1 4	1+C2+3+C2+1 4	1+C2+3+C2+1 2	1+C2+3+C2+1 2	1+C2+3+C2+1 3	1+C2+3+C2+1 4	1+C2+3+C2+1 4	1+C2+3+C2+1
					1+C2+2+C2+1 3			1+C2+2+C2+1 4	1+C2+2+C2+1 2	1+C2+2+C2+1 2	1+C2+2+C2+1 3	1+C2+2+C2+1 4	1+C2+2+C2+1 4	1+C2+2+C2+1
120"	1/4-1/2-1/4	** - 30.360	1+C2+3+C2+1 2	1+C2+3+C2+1 2	1+C2+3+C2+1 3	1+C2+3+C2+1 4	4 1+C2+3+C2+1 4	1+C2+3+C2+1 4	1+C2+3+C2+1 2	1+C2+3+C2+1 2	1+C2+3+C2+1 3	1+C2+3+C2+1 4	1+C2+3+C2+1 4	1+C2+3+C2+1
	nchor O.C. for "Integra	1 1 -	Anchor Froup F	MIN. SASH SIZE =	WINDOW WIDTH 2	<u>- 59.28</u>	SASH S	IE DIMENSIONS AF IZE IS AS PER THE SIZES NOT SHOWE	FIGURES ON SH	EETS 6-8.	•	-4).	TABLE 9 FOR E	

Fin" Installation

2.9"

4"

PRODUCT REVISED as complying with the Florida
Building Code 20-0406.01 NOA-No. **Expiration Date** 09/24/2025

Miami-Dade Product Control

C) NO CHANGES THIS SHEET.

AK - 03/27/20

05/15/15

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J ROSOWSKI MD-HR5510-01 € 1070 TECHNOLOGY DI N. VENICE, FL 34275 (941)-480-1600 Date Orawn By DWG ANCHOR QUANTITY TABLES HORIZONTAL ROLLER - LM NTS Sheet 12 OF HR-5510

2+1 4
C2+1 4
1 PR
C2+1 4
1 PR ONAL ENTIN

P.E.# 58705

- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.
- 4) "1/4-1/2-1/4" AND "1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

Glass Types								Δnc	hor Quantitie	s for XOX Win	obo	ws						
Glass Types 5 & 6	Sash	Sash	24" Height	30" Height	36" Height	48" Height	1	54" Height	63" Height	24" Height		30" Height		36" Height	Т	48" Height	54" Height	63" Height
Reinf. Level	Configuration	Width Range (in)	Head & Sill	Head & Sill	Head & Sill	Head & Sill		Head & Sill E	Head & Sill	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill E	Head & Sill	Head & Sill
R4					Anchor	Group A								Anch	or C	Froup C	· · · · · · · · · · · · · · · · · · ·	
35-1/4"	1/3-1/3-1/3	11.391 - 11.391								1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1 4	1+C2+0+C2+1	4 1+C2+0+C2+
38"	1/3-1/3-1/3	12.308 - 12.308								1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1 4	1+C2+0+C2+1	4 1+C2+0+C2+
45-1/8"	1/4-1/2-1/4	11.391 - 13.397								1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1 4	1+C2+0+C2+1	4 1+C2+0+C2+
43-170	1/3-1/3-1/3	13.398 - 14.683								1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1 4	1+C2+0+C2+1	4 1+C2+0+C2+
47-3/4"	1/4-1/2-1/4	11.391 - 12.297								1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1 4	1+C2+1+C2+1	4 1+C2+1+C2+
41-3/4	1/3-1/3-1/3	12.298 - 15.558								1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1 4	1+C2+0+C2+1	4 1+C2+0+C2+
	Custom	11.391 - 12.016								1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1 4	1+C2+1+C2+1	4 1+C2+1+C2+
52-1/8"	1/4-1/2-1/4	12.017 - 13.397								1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1 4	1+C2+1+C2+1	4 1+C2+1+C2+
<u>.</u>	1/3-1/3-1/3	13.398 - 17.016								1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1 4	1+C2+0+C2+1	4 1+C2+0+C2+
	Custom	11.391 - 13.397			Not A	Allowed				1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1 4	1+C2+1+C2+1	4 1+C2+1+C2+
60"	1/4-1/2-1/4	13.398 - 15.360								1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1 4	1+C2+1+C2+1	4 1+C2+1+C2+
60"	1/3-1/3-1/3	15.361 - 19.641								1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1 4	1+C2+0+C2+1	4 1+C2+0+C2+
·	Custom	11.391 - 13.397								1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1 4	1+C2+3+C2+1	4 1+C2+3+C2+
75"	1/4-1/2-1/4	13.398 - 19.110								1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1 4	1+C2+2+C2+1	4 1+C2+2+C2+
	1/3-1/3-1/3	19.111 - 24.641								1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1 4	1+C2+1+C2+1	4 1+C2+1+C2+
	Custom	18.360 - 19.397									1	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1 4	1+C2+3+C2+1	4 1+C2+3+C2+
96"	1/4-1/2-1/4	19.398 - 24.360								1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1 4	1+C2+3+C2+1	4 1+C2+3+C2+
	Custom	24.361 - 30.360					-	1+C2+2+C2+1	1		ļ .	1+C2+2+C2+1 4		4 1+C2+2+C2+				
120"	1/4-1/2-1/4	** -30.360										1+C2+3+C2+1	1	1+C2+3+C2+1	-		1+C2+3+C2+1	4 1+C2+3+C2+
1	74 72 74				Anchor	Group B					لــــا				1	Group D		
35-1/4"	1/3-1/3-1/3	11,391 - 11,391	1+C2+0+C2+1	2 1+C2+0+C2+1 2		-	1 4 1	1+C2+0+C2+1 4	1+C2+0+C2+1 4	1+C2+0+C2+1	2	1+C2+0+C2+1	2			1+C2+0+C2+1 4	1+C2+0+C2+1	4 1+C2+0+C2+
38"	1/3-1/3-1/3	12.308 - 12.308				3 1+C2+0+C2+			1+C2+0+C2+1 4		L	1+C2+0+C2+1				1+C2+0+C2+1 4	L	4 1+C2+0+C2+
	1/4-1/2-1/4				.1			1+C2+0+C2+1 4	l	<u> </u>	4	1+C2+0+C2+1	 	1+C2+0+C2+1		1+C2+0+C2+1 4		4 1+C2+0+C2+
45-1/8"	1/3-1/3-1/3	13.398 - 14.683				3 1+C2+0+C2+			1+C2+0+C2+1 4	_BI	\perp	1+C2+0+C2+1	1	1+C2+0+C2+1				4 1+C2+0+C2+
	1/4-1/2-1/4						4 4		1+C2+1+C2+1 4		-	1+C2+1+C2+1	1	1+C2+1+C2+1		1+C2+1+C2+1 4		4 1+C2+1+C2+
47-3/4"	1/3-1/3-1/3			2 1+C2+0+C2+1 2									1					
	Custom			2 1+C2+1+C2+1 2					1+C2+1+C2+1		-				-	1+C2+1+C2+1 4		
52-1/8"	1/4-1/2-1/4	12.017 - 13.397		2 1+C2+1+C2+1 2		3 1+C2+1+C2+			1+C2+1+C2+1		-	1+C2+1+C2+1	1		1	1+C2+1+C2+1 4		
52-1/8"	1/3-1/3-1/3			2 1+C2+0+C2+1 2	<u> </u>	3 1+C2+0+C2+		1	1+C2+0+C2+1 4		\perp	1+C2+0+C2+1	-		lacksquare	1+C2+0+C2+1 4		4 1+C2+0+C2+
<u> </u>	Custom	11.391 - 13.397		2 1+C2+1+C2+1 2				1+C2+1+C2+1 4		<u> </u>	-	1+C2+1+C2+1				1+C2+1+C2+1 4	<u> </u>	4 1+C2+1+C2+
60"	1/4-1/2-1/4	13.398 - 15.360		2 1+C2+1+C2+1 2	<u> </u>	3 1+C2+1+C2+			1+C2+1+C2+1			1+C2+1+C2+1	1			1+C2+1+C2+1 4		4 1+C2+1+C2+
60"	1/3-1/3-1/3	15.361 - 19.641		2 1+C2+0+C2+1 2	<u> </u>	_		1+C2+0+C2+1 4				1+C2+0+C2+1	lacksquare			1+C2+0+C2+1 4	<u> </u>	4 1+C2+0+C2+
	Custom	11.391 - 13.397					_	I+C2+3+C2+1 4				1+C2+3+C2+1	\vdash		-	1+C2+3+C2+1 4	ļ <u>.</u>	4 1+C2+3+C2+
75"		13.398 - 19.110		2 1+C2+2+C2+1 2	<u> </u>			I+C2+3+C2+1 4			\vdash	1+C2+3+C2+1	11	1+C2+2+C2+1	 		1+C2+2+C2+1	4 1+C2+2+C2+
1 '3	1/4-1/2-1/4 1/1/1/												-	1+C2+1+C2+1	-			4 1+C2+1+C2+
	1/3-1/3-1/3	19.111 - 24.641 18.360 - 19.397		2 1+C2+1+C2+1 2	<u> </u>			1+C2+1+C2+1 4				1+C2+1+C2+1	┷	1+C2+1+C2+1 1+C2+3+C2+1			1+C2+1+C2+1 1+C2+3+C2+1	4 1+C2+1+C2+ 4 1+C2+3+C2+
00"	Custom			2 1+C2+3+C2+1 2		1+C2+3+C2+1		1+C2+3+C2+1 4			-	1+C2+3+C2+1	₩.		-		ļ ļ.	
96"	1/4-1/2-1/4	19.398 - 24.360			<u> </u>	1+C2+3+C2+1		1+C2+3+C2+1 4			↓	1+C2+3+C2+1	-	1+C2+3+C2+1	1		1+C2+3+C2+1	4 1+C2+3+C2+
	Custom	24.361 - 30.360				1+C2+2+C2+1		+C2+2+C2+1 4		1+C2+2+C2+1		1+C2+2+C2+1				1+C2+2+C2+1 4		4 1+C2+2+C2+
120"	1/4-1/2-1/4	** - 30.360	1+C2+3+C2+1	2 1+C2+3+C2+1 2	1+C2+3+C2+1 3	3 1+C2+3+C2+1	1 4 1	+C2+3+C2+1 4	1+C2+3+C2+1 4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1 4	1+C2+3+C2+1	4 1+C2+3+C2+

Group F

Spacing for "Integral-

Fin" Installation

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.

4) "1/4-1/2-1/4" AND "1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.01

Expiration Date $\underline{09/24/202}5$

Miami-Dade Product Control

C) NO CHANGES THIS SHEET. ÁK - 03/27/20

05/15/15

Date

ANCHOR QUANTITY TABLES

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MD-HR5510-01

No.

13 OF 18

NTS

HR-5510

J ROSOWSKI

Drawn By

HORIZONTAL ROLLER - LM

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600

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

TAB	BLE 25:						MINIMUM	ANCHOR QUANT	TIES SHOWN.	ALL ANCHORAGE I	MUST ALSO COMP	LY WITH THE MAX	K. O.C. SPACING S	HOWN ON THE	ELEVATIONS.
	ass Types							An	chor Quantitie	s for XOX Wind	dows				
	7 & 8	Sash	Sash Width	24" Height	30" Height	36" Height	48" Height	54" Height	63" Height	24" Height	30" Height	36" Height	48" Height	54" Height	63" Height
₹	einf. Level R4	Configuration	Range (in)	Head & Sill que	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill Guer	Head & Sill	Head & Sill
	174					Anch	or Group A						## Height Head & Sill Em		
	35-1/4"	1/3-1/3-1/3	11.391 - 11.391								2 1+C2+0+C2+1 2				
	38"	1/3-1/3-1/3	12.308 - 12.308							1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1 3	1+C2+0+C2+1 4		4 1+C2+0+C2+
l	45-1/8"	1/4-1/2-1/4	11.391 - 13.397										1+C2+0+C2+1 4		4 1+C2+0+C2+
١	10 170	1/3-1/3-1/3	13.398 - 14.683											1+C2+0+C2+1	
	47-3/4"	1/4-1/2-1/4	11.391 - 12.297							<u> </u>	2 1+C2+1+C2+1 2			1+C2+1+C2+1	
		1/3-1/3-1/3	12.298 - 15.558								2 1+C2+0+C2+1 2			<u> </u>	4 1+C2+0+C2+
_		Custom	11.391 - 12.016							1+C2+1+C2+1	2 1+C2+1+C2+1 2	I		1	4 1+C2+1+C2+
	52-1/8"	1/4-1/2-1/4	12.017 - 13.397											1+C2+1+C2+1	
WILLIAGON DACK WIGH		1/3-1/3-1/3	13.398 - 17.016							1+C2+0+C2+1	2 1+C2+0+C2+1 2	<u> </u>		<u> </u>	4 1+C2+0+C2+
		Custom	11.391 - 13.397			Not	Allowed			1+C2+1+C2+1	2 1+C2+1+C2+1 2	1+C2+1+C2+1 3		1+C2+1+C2+1	4 1+C2+1+C2+
	60"	1/4-1/2-1/4	13.398 - 15.360											1+C2+1+C2+1	4 1+C2+1+C2+
		1/3-1/3-1/3	15.361 - 19.641							1+C2+0+C2+1	2 1+C2+0+C2+1 2			1+C2+0+C2+1	
		Custom	11.391 - 13.397							1+C2+3+C2+1	2 1+C2+3+C2+1 2			1+C2+3+C2+1	4 1+C2+3+C2+
	75"	1/4-1/2-1/4	13.398 - 19.110							1+C2+2+C2+1	2 1+C2+2+C2+1 2				
		1/3-1/3-1/3	19.111 - 24.641									1+C2+1+C2+1 3	 	1+C2+1+C2+1	4 1+C2+1+C2+
١		Custom	18.360 - 19.397							1+C2+3+C2+1	2 1+C2+3+C2+1 2	1+C2+3+C2+1 3		1	4 1+C2+3+C2+
	96"	1/4-1/2-1/4	19.398 - 24.360							1+C2+3+C2+1		 			4 1+C3+3+C3+
		Custom	24.361 - 30.360							1+C2+2+C2+1		1+C2+2+C2+1			
	120"	1/4-1/2-1/4	** - 30.360			***************************************				1+C2+3+C2+1	2 1+C2+3+C2+1 2			1+C2+3+C2+1	4 1+C3+3+C3+
_,							or Group B								
	35-1/4"	1/3-1/3-1/3	11.391 - 11.391	1+C2+0+C2+1 2											
	38"	1/3-1/3-1/3	12.308 - 12.308		1+C2+0+C2+1	2 1+C2+0+C2+1			 	4 1+C2+0+C2+1	2 1+C2+0+C2+1 2			1+C2+0+C2+1	
	45-1/8"	1/4-1/2-1/4	11.391 - 13.397	 	1+C2+0+C2+1	2 1+C2+0+C2+1	3 1+C2+0+C2+1		<u> </u>	4 1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1 3		1+C2+0+C2+1	4 1+C2+0+C2+
		1/3-1/3-1/3	13.398 - 14.683		1+C2+0+C2+1	2 1+C2+0+C2+1	3 1+C2+0+C2+1	4 1+C2+0+C2+1 4	_	4 1+C2+0+C2+1	2 1+C2+0+C2+1 2			11.02.0.02.7	
١	47-3/4"	1/4-1/2-1/4	11.391 - 12.297	<u> </u>										1.02.1.02.1	
ı		1/3-1/3-1/3			<u> </u>				+						
ا ء		Custom													
VVIath	52-1/8"	1/4-1/2-1/4		1+C2+1+C2+1 2								<u> </u>		1+C2+1+C2+1	
<u> </u>		1/3-1/3-1/3	13.398 - 17.016		 					4 1+C2+0+C2+1				1+C2+0+C2+1	
AVIITADAN DACA		Custom		1+C2+1+C2+1 2						4 1+C2+1+C2+1	2 1+C2+1+C2+1 2	<u> </u>		1+C2+1+C2+1	
	60"	1/4-1/2-1/4	13.398 - 15.360		1+C2+1+C2+1	2 1+C2+1+C2+1				4 1+C2+1+C2+1				1+C2+1+C2+1	
₹		1/3-1/3-1/3	15.361 - 19.641						<u> </u>	4 1+C2+0+C2+1		1+C2+0+C2+1 3			4 1+C2+0+C2+
		Custom	11.391 - 13.397		1+C2+3+C2+1	2 1+C2+3+C2+1	3 1+C2+3+C2+1		<u> </u>	4 1+C2+3+C2+1	2 1+C2+3+C2+1 2	1+C2+3+C2+1		1+C2+3+C2+1	
	75"	1/4-1/2-1/4	13.398 - 19.110											T. CZ. Z. CZ.	
		1/3-1/3-1/3	19.111 - 24.641		1+C2+1+C2+1					4 1+C2+1+C2+1	2 1+C2+1+C2+1 2				4 1+C2+1+C2+
	0.5"	Custom		1+C2+3+C2+1 2	1+C2+3+C2+1	2 1+C2+3+C2+1	3 1+C2+3+C2+1			4 1+C2+3+C2+1	2 1+C2+3+C2+1 2			1+C2+3+C2+1	
	96"	1/4-1/2-1/4	19.398 - 24.360			2 1+C2+3+C2+1			 	4 1+C2+3+C2+1				1+C2+3+C2+1	
	400"	Custom	24.361 - 30.360		 	2 1+C2+2+C2+1				4 1+C2+2+C2+1	2 1+C2+2+C2+1 2				4 1+C2+2+C2+
\Box	120"	1/4-1/2-1/4	** - 30.360	 	<u> </u>	2 1+C2+3+C2+1	3 1+C2+3+C2+1	4 1+C2+3+C2+1 4	1+C3+3+C3+1	4 1+C2+3+C2+1	2 1+C2+3+C2+1 2	1+02+3+02+1	<u></u>	1+C2+3+C2+1	4 1+C2+3+C2+ DESIGN PRESS
 Sp	Max. Ar	nchor O.C. for "Integra	Anchor Group F	** MIN. SASH SI	ZE = WINDOW !	<u>WIDTH - 59.28</u> 2		FIGURI 2) FOR	IE DIMENSIONS ES ON SHEETS 6 SIZES NOT SHO\	-8.	AND BUCK HEIGH		-4). SASH SIZE IS A	AS PER THE	

Fin" Installation

3.7"

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.01

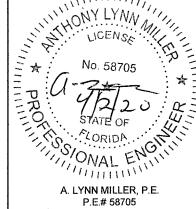
Expiration Date 09/24/2025

Miami-Dade Product Control

C) NO CHANGES THIS SHEET. AK - 03/27/20

O

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600 05/15/15 Rev. D ROSOWSKI MD-HR5510-01 Date DWG ANCHOR QUANTITY TABLES 8 HORIZONTAL ROLLER - LM P Jaarl2 4 NTS HR-5510



3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.

4) "1/4-1/2-1/4" AND "1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE

IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

TABLE 26:						MINIMUM ANC	HOR QUANTITI	ES SHO	WN. ALL AI	ICHORAGE MUS	ST ALSO COMPLY	WITH THE MAX.	O.C. SPACING SH	IOWN ON THE	ELEVATIO	DNS.
Glass Types 10 - 12								Ancho	r Quantitie	s for XOX Win	dows					
10 - 12	Sash	Sash Width	24" Height	30" Height	36" Height	48" Height	54" Heigh	t	63" Height	24" Height	30" Height	36" Height	48" Height	54" Height	63	3" Height
Reinf. Level R4	Configuration	Range (in)	Head & Sill quar	Head & Sill que	Head & Sill Que	Head & Sill	Head & Sill	Jamb	ead & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	que Head	d & Sill due
					Anchor	Group A						Ancho	r Group C			
35-1/4"	1/3-1/3-1/3	11.391 - 11.391				The second secon				1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C2+0+C2+1 4	1+C2+0+C2+	4 1+C2+	+0+C2+1 4
38"	1/3-1/3-1/3	12.308 - 12.308								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C2+0+C2+1 4	1+C2+0+C2+	4 1+C2+	+0+C2+1 4
45-1/8"	1/4-1/2-1/4	11.391 - 13.397								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C2+0+C2+1	1+C2+0+C2+	4 1+C3+	+0+C3+1 4
1	1/3-1/3-1/3	13.398 - 14.683								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C2+0+C2+1	1+C2+0+C2+	4 1+C3+	+0+C3+1 4
47-3/4"	1/4-1/2-1/4	11.391 - 12.297								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C2+0+C2+1	1+C3+0+C3+	4 1+C3+	+0+C3+1 4
	1/3-1/3-1/3	12.298 - 15.558								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C2+0+C2+1	1+C3+0+C3+	4 1+C3+	+0+C3+1 4
	Custom	11.391 - 12.016								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C3+0+C3+1 4	1+C3+0+C3+	4 1+C3+	+0+C3+1 4
52-1/8"	1/4-1/2-1/4	12.017 - 13.397								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C3+0+C3+1 4	1+C3+0+C3+	4 1+C3+	+0+C3+1 4
Asidital Midth	1/3-1/3-1/3	13.398 - 17.016								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C2+0+C2+1 4	1+C3+0+C3+	4 1+C3+	+0+C3+1 4
송	Custom	11.391 - 13.397								1+C2+2+C2+1	2 1+C2+2+C2+1 2	1.	3 1+C2+2+C2+1 4	1+C3+2+C3+	4 1+C3+	+2+C3+1 4
ğ 60"	1/4-1/2-1/4	13.398 - 15.360			Not A	llowed				1+C2+1+C2+1	2 1+C2+2+C2+1 2	1+C2+2+C2+1	3 1+C2+2+C2+1	1+C3+2+C3+	4 1+C3+	+2+C3+1 4
MOP	1/3-1/3-1/3	15.361 - 19.641								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C3+0+C3+1 4	1+C3+0+C3+	4 1+C4+	+0+C4+1 4
Ş	Custom	11.391 - 13.397								1+C2+2+C2+1	2 1+C2+3+C2+1 2	1+C2+3+C2+1	3 1+C2+3+C2+1 4	1+C3+3+C3+1	4 1+C3+	+3+C3+1 4
75"	1/4-1/2-1/4	13.398 - 19.110								1+C2+2+C2+1	2 1+C2+2+C2+1 2	1+C2+3+C2+1	3 1+C3+3+C3+1 4	1+C3+3+C3+	4 1+C4+	+3+C4+1 4
	1/3-1/3-1/3	19.111 - 24.641								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C3+0+C3+1	3 1+C3+0+C3+1 4	1+C4+0+C4+	4 1+C4+	+0+C4+1 4
	Custom	17.641 - 19.397								1+C2+3+C2+1	2 1+C2+3+C2+1 2	1+C2+3+C2+1	3 1+C3+4+C3+1 4	1+C3+4+C3+1	4 1+C4+	+4+C4+1 4
96"	1/4-1/2-1/4	19.398 - 24.360								1+C2+3+C2+1	2 1+C2+3+C2+1 2	1+C2+3+C2+1	3 1+C3+4+C3+1 4	1+C3+4+C3+	4 1+C4+	+4+C4+1 4
	1/3-1/3-1/3	24.361 - 31.641								1+C2+2+C2+1	2 2+C2+2+C2+2 2	2+C2+2+C2+2	3 2+C3+3+C3+2 4	1 2+C3+3+C3+2	4 2+C4+	+3+C4+2 4
120"	1/4-1/2-1/4	29.641 - 32.515								2+C2+3+C2+2	2 2+C2+3+C2+2 2	2+C2+3+C2+2	3 2+C3+4+C3+2 4	2+C3+4+C3+2	4 2+C4+	+4+C4+2 4
	1/3-1/3-1/3	32.516 - 39.641								2+C2+2+C2+2	2 2+C2+3+C2+2 2	2+C2+3+C2+2	3 2+C3+3+C3+2 4	1 2+C4+3+C4+2	4 2+C4+	+3+C4+2 4
140"	Custom	** - 39.641								2+C2+3+C2+2	2 2+C2+3+C2+2 2	2+C2+3+C2+2	3 2+C3+4+C3+2 4	1 2+C4+4+C4+2	4 2+C4+	+4+C4+2 4
ļ					OF THE PARTY OF TH	Group B							r Group D			
35-1/4"	1/3-1/3-1/3		1+C2+0+C2+1 2		1 02 0 02 1 0				2+0+C2+1 4		2 1+C2+0+C2+1 2	- 			 	
38"	1/3-1/3-1/3		1+C2+0+C2+1 2		1+C2+0+C2+1 3				2+0+C2+1 4		2 1+C2+0+C2+1 2			1+C2+0+C2+		+0+C2+1 4
45-1/8"	1/4-1/2-1/4		1+C2+0+C2+1 2			 	4 1+C3+0+C3+		3+0+C3+1 4		2 1+C2+0+C2+1 2	1+C2+0+C2+1	3 1+C2+0+C2+1 4	1+C2+0+C2+	4 1+C3+	+0+C3+1 4
	1/3-1/3-1/3	13.398 - 14.683	1+C2+0+C2+1 2			1+C2+0+C2+1	4 1+C2+0+C2+		3+0+C3+1 4		2 1+C2+0+C2+1 2		3 1+C2+0+C2+1 4	1+C2+0+C2+1	ļļ	+0+C3+1 4
47-3/4"	1/4-1/2-1/4		1+C2+0+C2+1 2		ļ	1+C2+0+C2+1					2 1+C2+0+C2+1 2		3 1+C2+0+C2+1 4	1+C3+0+C3+	<u> </u>	+0+C3+1 4
	1/3-1/3-1/3									[2]	2 1+C2+0+C2+1 2					
	Custom					<u> </u>					2 1+C2+0+C2+1 2		_ li			-,
52-1/8"	1/4-1/2-1/4				l					<u></u>	2 1+C2+0+C2+1 2	 		1+C3+0+C3+1		+0+C3+1 4
Width	1/3-1/3-1/3		1+C2+0+C2+1 2		1+C2+0+C2+1 3	 	4 1+C3+0+C3+	+	3+0+C3+1 4		2 1+C2+0+C2+1 2			1+C3+0+C3+1	 	+0+C3+1 4
중	Custom		1+C2+2+C2+1 2			ļ	4 1+C3+2+C3+	++-			2 1+C2+2+C2+1 2			1+C3+2+C3+	+-	
B 60"	1/4-1/2-1/4		1+C2+2+C2+1 2			l	4 1+C3+2+C3+	1	3+2+C3+1 4		2 1+C2+1+C2+1 2			1+C3+1+C3+1	$oldsymbol{\sqcup}$	+1+C3+1 4
[월]	1/3-1/3-1/3		1+C2+0+C2+1 2		1+C2+0+C2+1 3		4 1+C3+0+C3+				2 1+C2+0+C2+1 2			1+C3+0+C3+1	 	+0+C4+1 4
₹ 	Custom		1+C2+3+C2+1 2			1					2 1+C2+2+C2+1 2			1+C3+3+C3+1	 	+3+C3+1 4
75"	1/4-1/2-1/4				1+C2+3+C2+1 3	J					2 1+C2+2+C2+1 2			1+C3+2+C3+1		+2+C4+1 4
	1/3-1/3-1/3 Custom	19.111 - 24.641		1+C2+0+C2+1 2		 			4+0+C4+1 4		2 1+C2+0+C2+1 2			1+C4+0+C4+1	 	+0+C4+1 4
96"	Custom	17.641 - 19.397				L			4+4+C4+1 4		2 1+C2+3+C2+1 2			1+C3+4+C3+1	1	+4+C4+1 4
90	1/4-1/2-1/4	19.398 - 24.360 24.361 - 31.641		1+C2+3+C2+1 2					4+4+C4+1 4	<u></u>		_		1+C3+3+C3+1	 	+3+C4+1 4
	1/3-1/3				2+C2+3+C2+2 3		····			<u> </u>	2 1+C2+2+C2+1 2			1+C3+2+C3+1	 	+2+C4+1 4
120"	1/4-1/2-1/4 1/3-1/3-1/3	29.641 - 32.515 32.516 - 39.641									2 2+C2+3+C2+2 2				<u> </u>	
140"	/3-/3-/3 Custom				2+C2+3+C2+2 3 2+C2+4+C2+2 3	 		4			2 2+C2+3+C2+2 2 2 2+C2+3+C2+2 2					
	. Custolli	JS.0411	え バロステンチレステスト ノイ	L	1と「しとてみてしとする」ろ	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・				m ノテし ノナ 5ナ(ごノナン)	フェノテにフチスチ(ジチン) ク	エフナレフナスナビンナン! ^	コーノナし、うナムナし、うナノト ム	+ 4 + 4 + (. 4 +)	ロムエフナ(ごムナ	r4+C4+7 4

1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4).

SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.

2) FOR SIZES NOT SHOWN, ROUND <u>UP</u> TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.

4) "1/4-1/2-1/4" AND "1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE

IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.01

Expiration Date 09/24/2025

Miami-Dade Product Control

C) NO CHANGES THIS SHEET. AK - 03/27/20

DRIVE 05/15/15 1070 TECHNOLOGY D. N. VENICE, FL 34275 (941)-480-1600 Date)rawn By

MD-HR5510-01

No.

OF 18

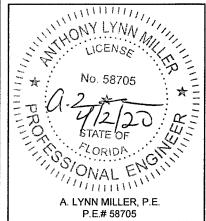
NTS Sheet 15 (

Scale

HR-5510

J ROSOWSKI





GLASS TYPES 10-12 & 14-16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL
FIN FRAMES

** MIN. SASH SIZE = WINDOW WIDTH - 60.72

<u>T/</u>	ABLE 27:	·	F	, · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		MINIMUM ANCHO	OR QUANTITIES	SHC	OWN. ALL AN	CHORAGE MUST	ALSO COMPLY V	NITH THE MAX. C	C. SPACING SH	OWN ON THE ELE	G3" Height Eg Head & Sill Eg Head & Sill Eg Eg
	Glass Types							for XOX Wind	lows							
	14 - 16	Sash	Sash	24" Height	30" Height	36" Height	48" Height	54" Height	T	63" Height	24" Height	30" Height	36" Height	48" Height	54" Height	63" Height
ΙГ	Reinf, Level	Configuration	Width Range (in)	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	d F	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill
	R4		:		l _e C	<u>.</u>	<u> </u>	3	ي ا	ال		2 2	ا ا		ا ا	اج
1	35-1/4"	1/ 1/ 1/	11.391 - 11.391			Anchor	Group A				4.02.0.00.4	2 1+C2+0+C2+1 2		Group C	14,62,0,62,4 4	4) 62) 0) 62) 4] 4
	38"	1/3-1/3-1/3 1/3-1/3-1/3	12.308 - 12.308									2 1+C2+0+C2+1 2 2 1+C2+0+C2+1 2		<u> </u>		
	30	1/4-1/2-1/4	11.391 - 13.397								1+C2+0+C2+1 2	2 1+C2+0+C2+1 2		1+C3+0+C3+1 4		
	45-1/8"	1/3-1/3-1/3	13.398 - 14.683								1+C2+0+C2+1	2 1+C2+0+C2+1 2		ļļ		
		1/4-1/2-1/4	11.391 - 12.297								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1 3			
	47-3/4"	1/3-1/3-1/3	12.298 - 15.558								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1 3	1+C3+0+C3+1 4	1+C3+0+C3+1 4	1+C3+0+C3+1 4
		Custom	11.391 - 12.016								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C3+0+C3+1 3	1+C3+0+C3+1 4	1+C4+0+C4+1 4	1+C4+0+C4+1 4
	52-1/8"	1/4-1/2-1/4	12.017 - 13.397								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C3+0+C3+1 3	1+C3+0+C3+1 4	1+C4+0+C4+1 4	1+C4+0+C4+1 4
1 4		1/3-1/3-1/3	13.398 - 17.016								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C3+0+C3+1 3	1+C3+0+C3+1 4	1+C4+0+C4+1 4	1+C4+0+C4+1 4
		Custom	11.391 - 13.397								1+C2+2+C2+1	2 1+C2+2+C2+1 2	1+C2+2+C2+1 3	1+C3+2+C3+1 4	1+C3+2+C3+1 4	1+C4+2+C4+1 4
	60"	1/4-1/2-1/4	13.398 - 15.360			Not A	Allowed				1+C2+1+C2+1	2 1+C2+2+C2+1 2	1+C2+2+C2+1 3	1+C3+2+C3+1 4	1+C3+2+C3+1 4	1+C4+2+C4+1 4
		1/3-1/3-1/3	15.361 - 19.641								1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C3+0+C3+1 3	1+C4+0+C4+1 4	1+C4+0+C4+1 4	1+C5+0+C5+1 4
Windows D. of Midth		Custom	11.391 - 13.397								1+C2+2+C2+1	2 1+C2+3+C2+1 2	1+C2+3+C2+1 3	1+C3+3+C3+1 4	1+C4+3+C4+1 4	1+C4+3+C4+1 4
	75"	1/4-1/2-1/4	13.398 - 19.110								1+C2+2+C2+1	2 1+C2+2+C2+1 2	1+C2+3+C2+1 3			1+C4+3+C4+1 4
$\parallel \parallel$		1/3-1/3-1/3	19.111 - 24.641								1+C2+0+C2+1	2 1+C3+0+C3+1 2	1+C3+0+C3+1 3			
\parallel		Custom	17.641 - 19.397								1+C2+3+C2+1		1+C2+3+C2+1 3			
	96"	1/4-1/2-1/4	19.398 - 24.360										1+C2+3+C2+1 3	<u> </u>		
		1/3-1/3-1/3	24.361 - 31.641										2+C2+2+C2+2 3			
	120"	1/4-1/2-1/4	29.641 - 32.515								2+C2+3+C2+2		2+C2+3+C2+2 3	<u> </u>		
	140"	1/3-1/3-1/3	32.516 - 39.641								2+C2+2+C2+2		2+C2+3+C2+2 3		<u> </u>	
1	140"	Custom	** - 39.641			Anabas	Croup B	· · · · · · · · · · · · · · · · · · ·			2+02+3+02+2	2 2+02+3+02+2 2	<u> </u>	<u></u>	2+04+4+04+2 4	2+04+3+04+2 4
-	35-1/4"	1/3-1/3-1/3	11.391 - 11.391	1+C2+0+C2+1	2 1+C2+0+C2+1	2 1+C2+0+C2+1 3	Group B	1 14-03-04-03-1	1 14	FC3+0+C3+4 4	1+C2+0+C2+1	2 1+C2+0+C2+1 2		Group D	11+C2+0+C2+1 4	1+C2+0+C2+1 4
	38"	1/3-1/3-1/3	 			2 1+C2+0+C2+1 3		1 1+C2+0+C2+1		C2+0+C2+1 4	1+C2+0+C2+1	2 1+C2+0+C2+1 2				
		1/4-1/2-1/4		1+C2+0+C2+1	 		3 1+C3+0+C3+1 4	1 1+C3+0+C3+1	_	C4+0+C4+1 4	1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C2+0+C2+1 3			
	45-1/8"	1/3-1/3-1/3		1+C2+0+C2+1	ļ		3 1+C3+0+C3+1 4				1+C2+0+C2+1		1+C2+0+C2+1 3			
		1/4-1/2-1/4				2 1+C2+0+C2+1 3										
	47-3/4"	1/3-1/3-1/3														
		Custom				2 1+C3+0+C3+1 3						2 1+C2+0+C2+1 2	· 			
	52-1/8"	1/4-1/2-1/4	12.017 - 13.397	1+C2+0+C2+1	2 1+C2+0+C2+1	2 1+C3+0+C3+1 3	3 1+C3+0+C3+1 4	1+C4+0+C4+1	4 1+	+C4+0+C4+1 4	1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C3+0+C3+1 3	1+C3+0+C3+1 4	1+C4+0+C4+1 4	1+C4+0+C4+1 4
1 4		1/3-1/3-1/3	13.398 - 17.016	1+C2+0+C2+1	2 1+C2+0+C2+1	2 1+C3+0+C3+1 3	1+C3+0+C3+1 4	1+C4+0+C4+1	4 1+	+C4+0+C4+1 4	1+C2+0+C2+1	2 1+C2+0+C2+1 2	1+C3+0+C3+1 3	1+C3+0+C3+1 4	1+C4+0+C4+1 4	1+C4+0+C4+1 4
		Custom	11.391 - 13.397	1+C2+2+C2+1	2 1+C2+2+C2+1	2 1+C2+2+C2+1 3	3 1+C3+2+C3+1 4	1+C3+2+C3+1	4 1+	+C4+2+C4+1 4		2 1+C2+2+C2+1 2				
	60"	1/4-1/2-1/4	13.398 - 15.360	1+C2+2+C2+1	 	2 1+C2+2+C2+1 3	 	- 	_		8	2 1+C2+1+C2+1 2		 		
		1/3-1/3-1/3		1+C2+0+C2+1	 	2 1+C3+0+C3+1 3	4	_		+C5+0+C5+1 4	8	2 1+C2+0+C2+1 2				
Window Bush Width		Custom			 	2 1+C2+3+C2+1 3		_ 		+C4+3+C4+1 4		2 1+C2+2+C2+1 2				
	75"	1/4-1/2-1/4	13.398 - 19.110		 		3 1+C3+3+C3+1 4				1+C2+2+C2+1	2 1+C2+2+C2+1 2	1+C2+2+C2+1 3		_	
		1/3-1/3-1/3			 	2 1+C3+0+C3+1 3						2 1+C3+0+C3+1 2			_	
	00"	Custom			 					 	8			 		
	96"	1/4-1/2-1/4			 	2 1+C2+4+C2+1 3						2 1+C2+3+C2+1 2	- 			
		1/3-1/3-1/3 1/ 1/ 1/				2 2+C2+3+C2+2 3 2 2+C2+4+C2+2 3					4		1+C2+2+C2+1 3			
	120"	1/4-1/2-1/4 1/3-1/3-1/3	[]		ļ	2 2+C2+4+C2+2 3	1									
	140"	Custom			 						8		<u></u>	 		
-	1 170	Lactorii	33.041		1 - 1 - 32 - 3 - 32 - 2		NOTES:	. 1 04,4,04,2	٠١٤٠	31.3.34.2	1 02 0 02 2		1- 02 0 02 2 0	<u></u>	TABLE 16 FOR DE	
1								E DIMENSIONS	^DE	DUCK WIDTH	AND BLICK HEIG	HT (SEE SHEETS	3.4\			

** MIN. SASH SIZE = WINDOW WIDTH - 60.72

1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4).

SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.

4) "1/4-1/2-1/4" AND "1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE

IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0406.01 NOA-No.

Expiration Date 09/24/2025

Miami-Dade Product Control

C) NO CHANGES THIS SHEET. AK - 03/27/20

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1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600 05/15/15 Rev. J ROSOWSKI MD-HR5510-01 Date Drawn By DWG 9 HORIZONTAL ROLLER - LM Sheet OF ANCHOR QUANTITY NTS Scale HR-5510



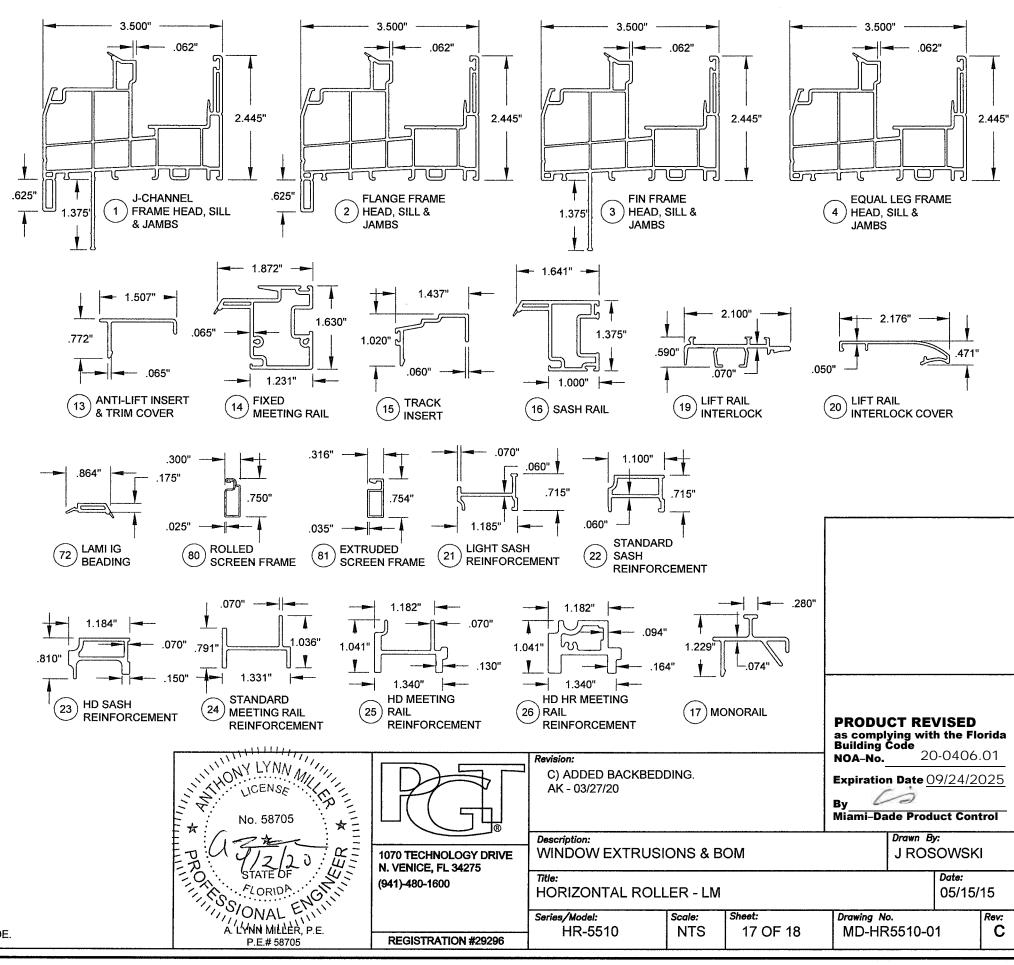
Series Desc. Title

GLASS TYPES 10-12 & 14-16

MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

P.E.# 58705

# Part # Description Materia											
#	Part #										
1	620121	Frame Head, Sill and Jambs - J-Channel	PVC								
2	620122	Frame Head, Sill and Jambs - Flange	PVC								
3	620123	Frame Head, Sill and Jambs - Fin	PVC								
4	620124	Frame Head, Sill and Jambs - Equal Leg	PVC								
13	620172	Anti-Lift Insert / Trim Cover	PVC								
14	620131	Fixed Meeting Rail	PVC								
15	620158	Track Insert	6063 T6 A								
16	620129	Sash Rail (Sides, Top & Bottom)	PVC								
17	620166	Monorail	6063 T6 A								
19	620156	Pull Rail Interlock	6063 T6 A								
20	620144	Pull Rail Interlock Cover	PVC								
21	620150	Light Sash Reinforcement	6063 T6 A								
22	620151	Standard Sash Reinforcement	6063 T6 A								
23	620152	HD Sash Reinforcement	6063 T6 A								
24	620153	Standard Meeting Rail Reinforcement	6005 T5 A								
25	620154	HD Meeting Rail Reinforcement	6005 T5 A								
26	620155	H.D. Horiz. Roller Meeting Rail Reinforcement	6005 T5 A								
27	710X114PPA	#10 x 1-1/4" PH. PH SDS (Monorail Screw)	410 SS								
28	61644	Weatherstrip, .187" x .270" Fin Pile									
29	61719	Weatherstrip, .187" x .220" Poly Pile									
30		#8 x 1" Ph. PH SDS (Interlock Mounting Screw)	410 SS								
31	78X312PPA	#8 x 3-1/2" Ph. PH SMS (Fixed Meeting Rail Screw)	410 SS								
32	71669SP	Meeting Rail Screw Support Plate	6063 T5 A								
33	720210	Weep Hole Cover	PVC								
34	720187	Installation Screw Hole Plug	PVC								
37	720197	Auto Lock	C Steel								
38	720199	Sweep Lock	Cast Zind								
39	720196	Auto Lock Cover Assembly	Cast Zind								
40	720130	#6 x 1-1/8" Ph. FH SDS (Auto and Sweep Lock Screw)	SS								
41	720200	Auto and Sweep Lock Keeper	Cast Zind								
71 42	76X34PPA	#6 x 3/4" PH. PH SDS (Keeper Screw)	SS SS								
42 43	7612FPTX	#6 x 1/2" FPH Tek (Reinforcement Screw)									
43 44	7012FF1X	Leadstile Top Corner Key	SS								
44 45		Leadstile Bottom Corner Key	Nylon								
45 46			Nylon								
40 47		Lockstile Top Corner Key	Nylon								
47 48	720204	Lockstile Bottom Corner Key	Nylon								
	 	Wheel	Nylon								
72 74	620135	Lami. I.G. Bead	PVC								
74	74004/5	Backbedding, GE 7700 or Dow 791 or Dow 983	Silicone								
75	71684/5	Setting Block (7/8" x 2" x 1/8"), 85 +/- 5 duro.	EPDM								
80	61011	Roll-formed Screen	Alum								
81	61012	Extruded Screen Frame	Alum								
82	172 /2:11	Extruded Screen Spreader Bar	Alum								
83	47042W	Screen Corner Key with Pull Ring	PVC								
84	47041W/CKGLB	Screen Corner Key No Pull Ring	PVC								
85	7CASPM	Tension Spring	SS								
86	61816C48	Screen Cloth	Fiberglass								
87	61635/61614	.140" Screen Spline (Machine/Hand Rolled)	Vinyl								



NOTES:

¹⁾ ITEMS # 5-12, 18, 35, 36, 49-71 & 73 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

²⁾ PVC BY ENERGI WINDOW AND DOOR PROFILES, LTD., TO BE LABELED FOR AAMA EXTRUDER CODE.

