



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

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-5410" PVC Horizontal Rolling Window – N.I.

APPROVAL DOCUMENT: Drawing No. MD-HR5410-01 titled "Horizontal Roller - NI", sheets 1 through 15 of 15, dated 05/15/15, with revision A dated 05/05/16, 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: None

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# 15-0903.11 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



Manuel Perez
8/26/16

NOA No. 16-0714.18
Expiration Date: September 24, 2020
Approval Date: September 01, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No.15-0903.11)
2. Drawing No. **MD-HR5410-01** titled "Horizontal Roller - NI", sheets 1 through 15 of 15, dated 05/15/15, with revision A dated 05/05/16, 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® NXT™ spacer system and XL Edge™ 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.
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 previous NOA No.15-0903.11)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 08/28/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under previous NOA No.15-0903.11)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.18
Expiration Date: September 24, 2020
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E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **12-1120.02** issued to Royal Window and Door Profiles, Plant 13 for their “**White Rigid PVC Exterior Extrusions for Windows and Doors**” dated 02/28/13, expiring on 02/28/18.
2. Notice of Acceptance No. **14-0529.13** issued to Royal Window and Door Profiles, Plant 13 for their “**Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors**” dated 04/16/15, expiring on 04/16/20.
3. Notice of Acceptance No. **14-0529.14** issued to Royal Window and Door Profiles, Plant 13 for their “**Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**” dated 04/16/15, expiring on 04/16/20.

F. STATEMENTS

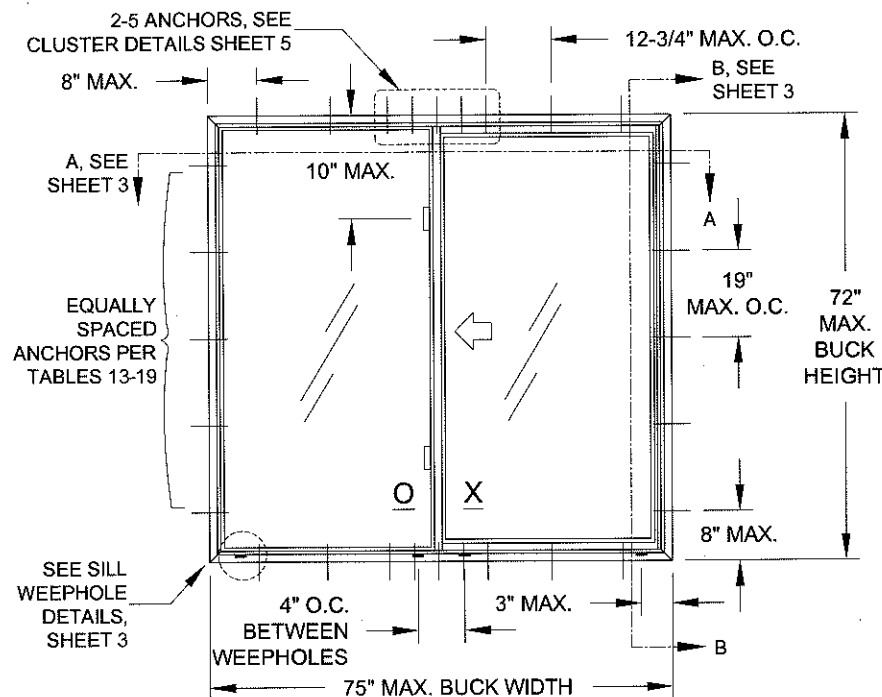
1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, dated August 28, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under previous NOA No.15-0903.11)
2. Statement letter of no financial interest, dated August 28, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under previous NOA No.15-0903.11)
3. Proposal issued by Product Control, dated 8/27/14 and revised on 9/10/14, signed by Jaime Gascon, P.E. Supervisor, Product Control Section.
(Submitted under previous NOA No.15-0903.11)
4. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.

G. OTHERS

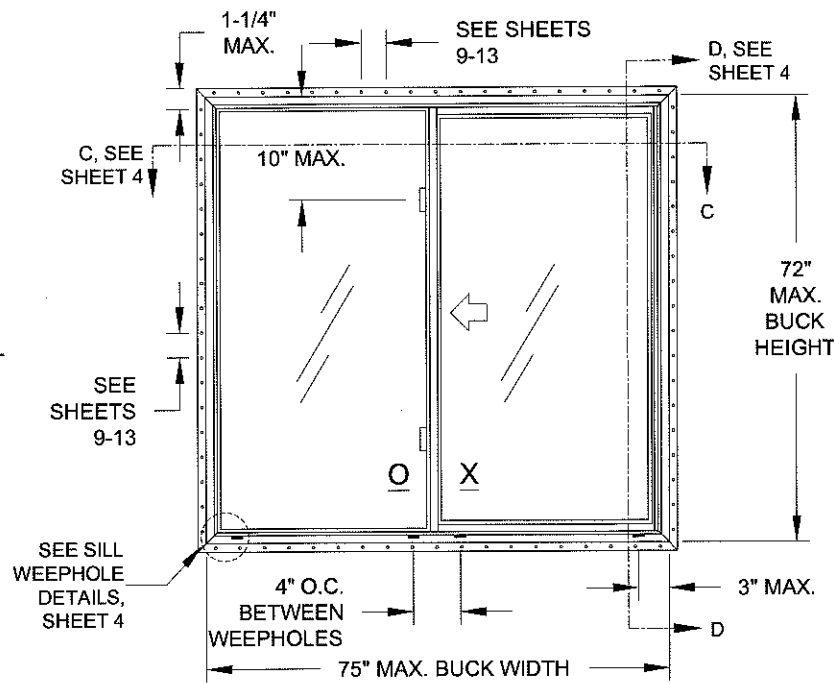
1. Notice of Acceptance No. **15-0903.11**, issued to PGT Industries, Inc. for their Series “HR-5410” PVC Horizontal Rolling Window - N.I., approved on 09/24/15 and expiring on 09/24/20.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.18

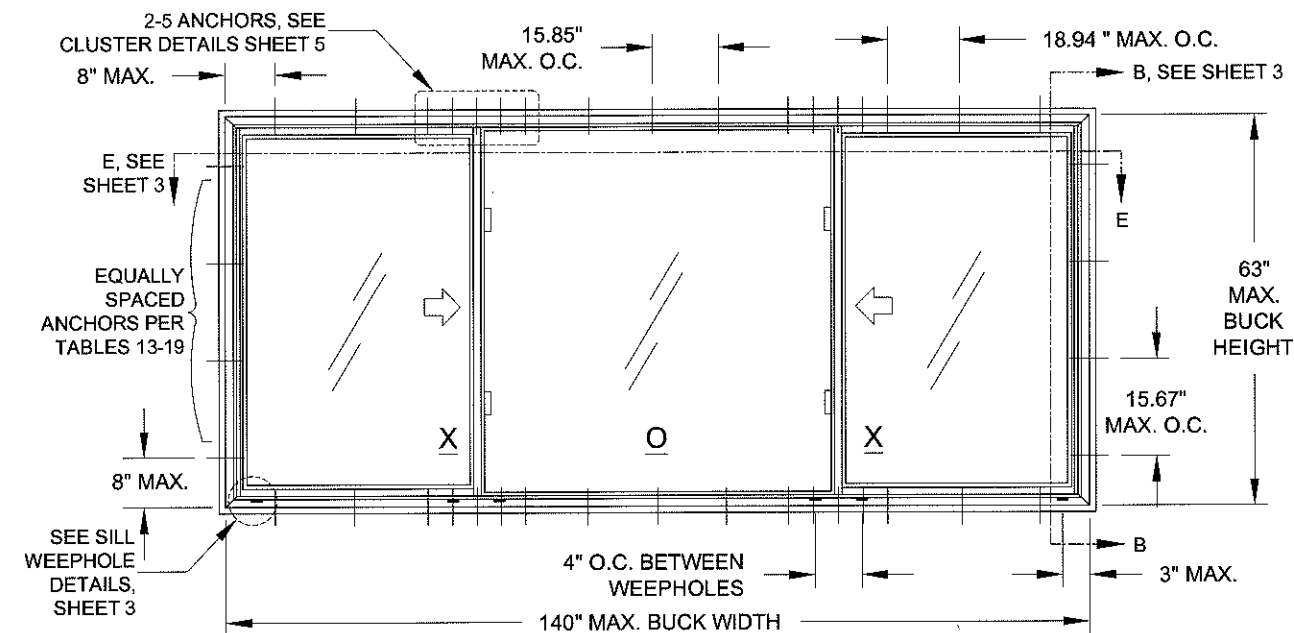
Expiration Date: September 24, 2020
Approval Date: September 01, 2016



ELEVATION FOR TYP. EQUAL LEG FRAME
SHOWN AS OX CONFIGURATION



ELEVATION FOR TYP. FIN OR J-CHANNEL
FRAME SHOWN AS OX CONFIGURATION
ANCHORED THROUGH THE NAIL-FIN



ELEVATION FOR TYP. FLANGE FRAME
SHOWN AS XO CONFIGURATION

GENERAL NOTES: SERIES 5410 NON-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 REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 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.
- 7) DESIGN PRESSURES:
 - A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TESTING AND GLASS PER ASTM E1300.
 - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TESTING AND GLASS PER ASTM E1300.
- 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; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ELCO AGGRE-GATOR NOA; ROYAL 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, XO), SIZE, GLAZING OPTION FROM (TABLE 1) AND REINFORCEMENT LEVEL, DETERMINE YOUR WINDOW'S DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING USING TABLES 6-12 (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 13-19 (SHEETS 9-13), 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.

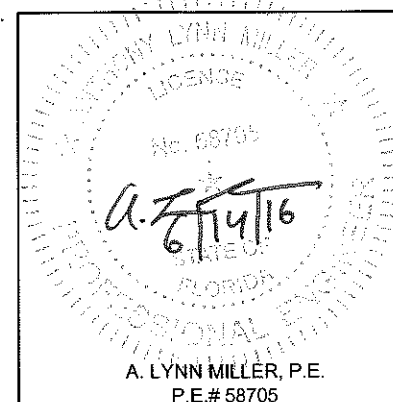
DESIGN PRESSURE RATING	IMPACT RATING
VARIABLES PER REINFORCEMENT LEVEL, SEE SHEETS 6-8	NOT RATED FOR IMPACT RESISTANCE

STANDARDS USED:

- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2012 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2010
- AISI-S100-07/S2-2010

GENERAL NOTES.....	1
ELEVATIONS.....	1
FRAME, GLASS & ANCHOR OPTIONS.....	2
INSTALLATION, FLANGE & EQUAL LEG/BOX.....	3
INSTALLATION, INTEGRAL FIN & J-CHANNEL.....	4
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PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714.18
Expiration Date Sept. 24, 2020
By *Manuel Perez*
Miami Dade Product Control



PGT
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

Revised By: JR	Date: 05/05/16	Revision: A) ADDED SPACERS TO SHEET 5.
Revised By:	Date:	Revision:
Description: GENERAL NOTES & ELEVATION		
Title: HORIZONTAL ROLLER - NI		
Series/Model: HR-5410	Scale: NTS	Sheet: 1 OF 15
Drawing No. MD-HR5410-01		Rev: A

Drawn By:
J ROSOWSKI

Date:
05/15/15

TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description (Listed from Exterior to Interior)
1	3/4" I.G.: 1/8" A Exterior Cap + 1/2" Air Space + 1/8" A Exterior Cap
2	3/4" I.G.: 1/8" T Exterior Cap + 1/2" Air Space + 1/8" T Exterior Cap
3	3/4" I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 3/16" A Exterior Cap
4	3/4" I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 3/16" T Exterior Cap

SEE SHEET 6, TABLE 5 FOR GLAZING/DESIGN PRESSURE/ANCHORAGE INDEX.

GLASS TYPES 1 & 3 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

TABLE 2: ALLOWABLE ANCHORS THROUGH THE FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
	3/16" steel Ultracon	Aluminum, 6063-T5*	3/8"	0.050"
		P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 2.85 ksi)	1"	1-3/8"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
	3/16" steel Ultracon	Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.063"
		Concrete (min. 2.85 ksi)	1"	1-3/4"
C	1/4" steel Ultracon	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.35 ksi)	1"	1-3/4"
	1/4" steel Creteflex	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	1/4" steel Aggre-Gator	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
D	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" steel Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Grouted CMU, (ASTM C-90)	2"	2"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. FOR STEEL STUDS, MIN. Fu=45 KSI & MIN. Fy=33 KSI.

"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

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.
- 4) SEE SHEET 18 FOR OPTIONAL EGRESS LOCK DETAILS.

TABLE 3: ALLOWABLE ANCHORS THROUGH THE INTEGRAL FIN

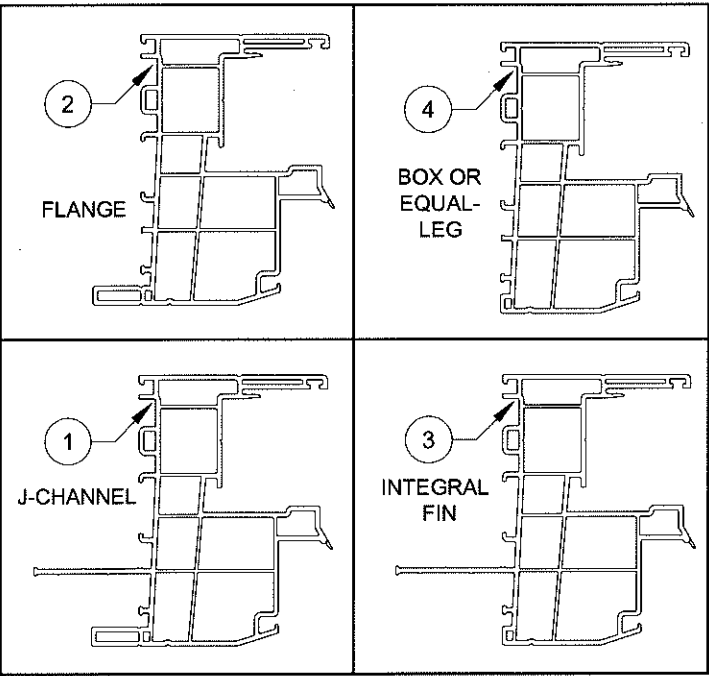
Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
E	2-1/2" x .131" Common Nail	P.T. Southern Pine (SG=0.55)	3/8"	2-7/16"
F	2-1/2" Ring-shank Roofing Nail	P.T. Southern Pine (SG=0.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	Steel, A36*	3/8"	0.050"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"
	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Steel, A36*	3/8"	0.050"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. FOR STEEL STUDS, MIN. Fu=45 KSI & MIN. Fy=33 KSI.

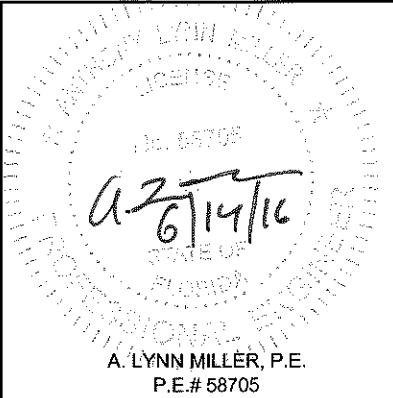
TABLE 4: INDEX OF INSTALLATION METHODS PER FRAME TYPE

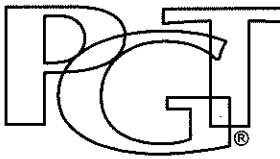
Frame Types (see Fig B)	Glass Options (see Table 1)	Installation Conditions	Substrate Option Detail Sheet
J-Channel (#1)	1 - 4	Through the integral fin.....	into 2X Wood Frame/Buckstrip - sheet 4, option 5
		Through the frame of the window.....	into Metal - sheet 4, option 8
Flange (#2)	1 - 4	Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 4, option 6
		Through the frame of the window.....	into Metal - sheet 4, option 7
Integral Fin (#3)	1 - 4	Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 3, option 1
		Through the frame of the window.....	into Concrete/CMU - sheet 3, option 2
Box / Equal-Leg (#4)	1 - 4	Through the frame of the window.....	through 1X Buckstrip into Concrete/CMU - sheet 3, option 3
		Through the frame of the window.....	into Metal - sheet 3, option 4

FIGURE B: FRAME TYPES



PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0714-18 Expiration Date 5/31/24, 2020 By *Manuel Perez* Miami Dade Product Control





1070 TECHNOLOGY DRIVE
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NOKOMIS, FL 34274

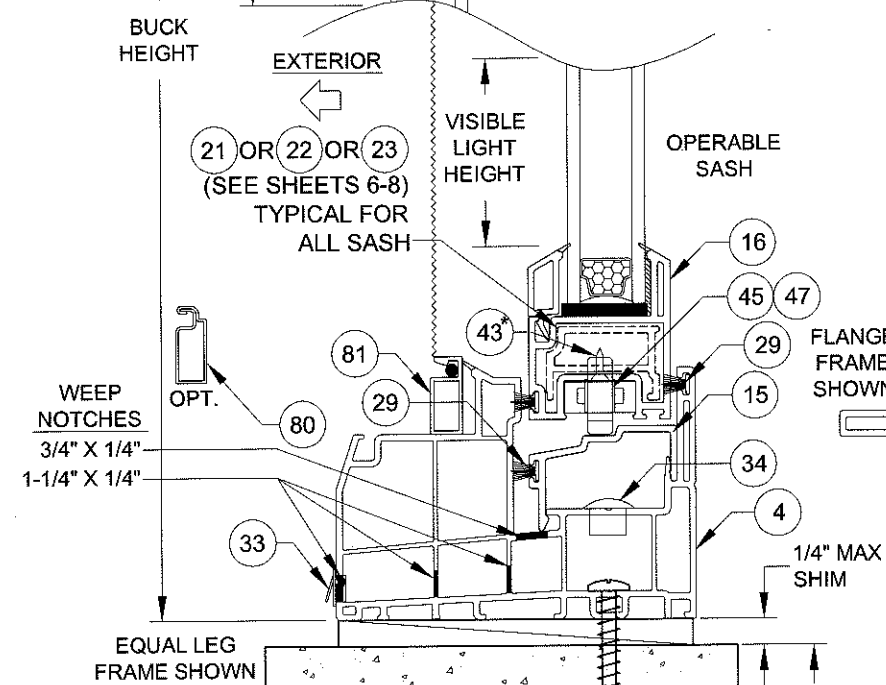
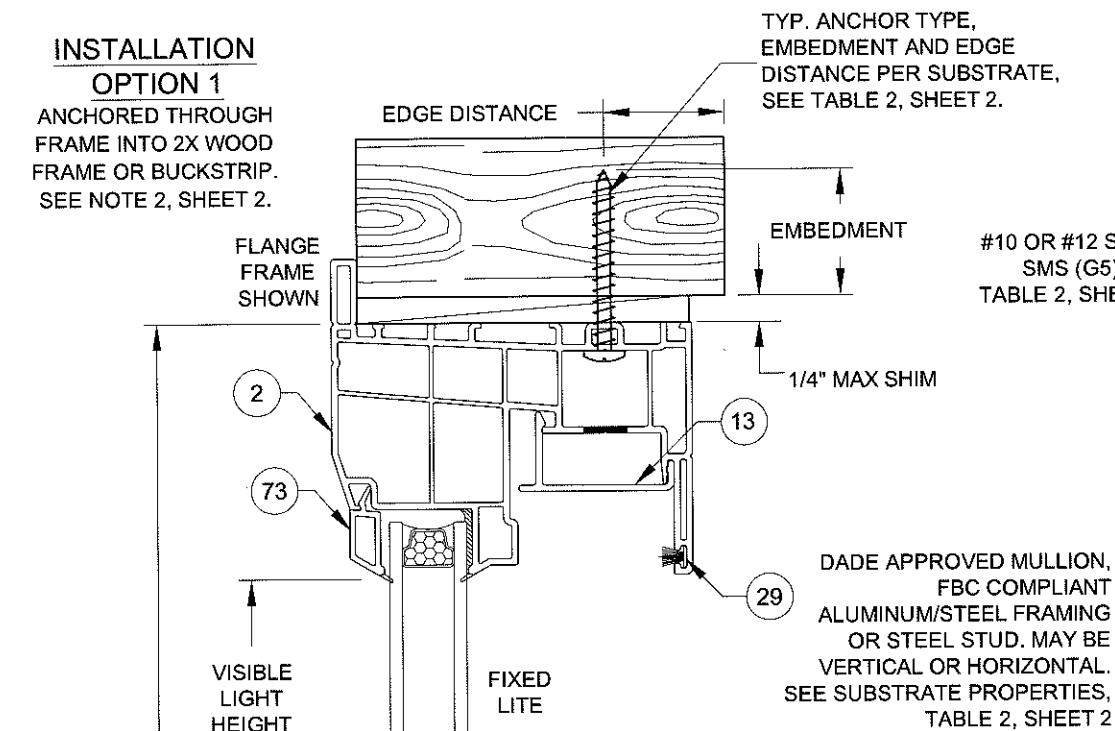
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: GLASS/ANCHORS/FRAME OPTIONS		Drawn By: J ROSOWSKI
Title: HORIZONTAL ROLLER - NI		Date: 05/15/15
Series/Model: HR-5410	Scale: NTS	Sheet: 2 OF 15
Drawing No. MD-HR5410-01		Rev: A

INSTALLATION DETAILS FOR FLANGE AND EQUAL-LEG FRAMES

INSTALLATION
OPTION 1

ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, SHEET 2.



INSTALLATION
OPTION 2

ANCHORED THROUGH
FRAME DIRECTLY INTO
CONCRETE/CMU.

TYP. ANCHOR TYPE,
EMBEDMENT AND EDGE
DISTANCE PER SUBSTRATE,
SEE TABLE 2, SHEET 2.

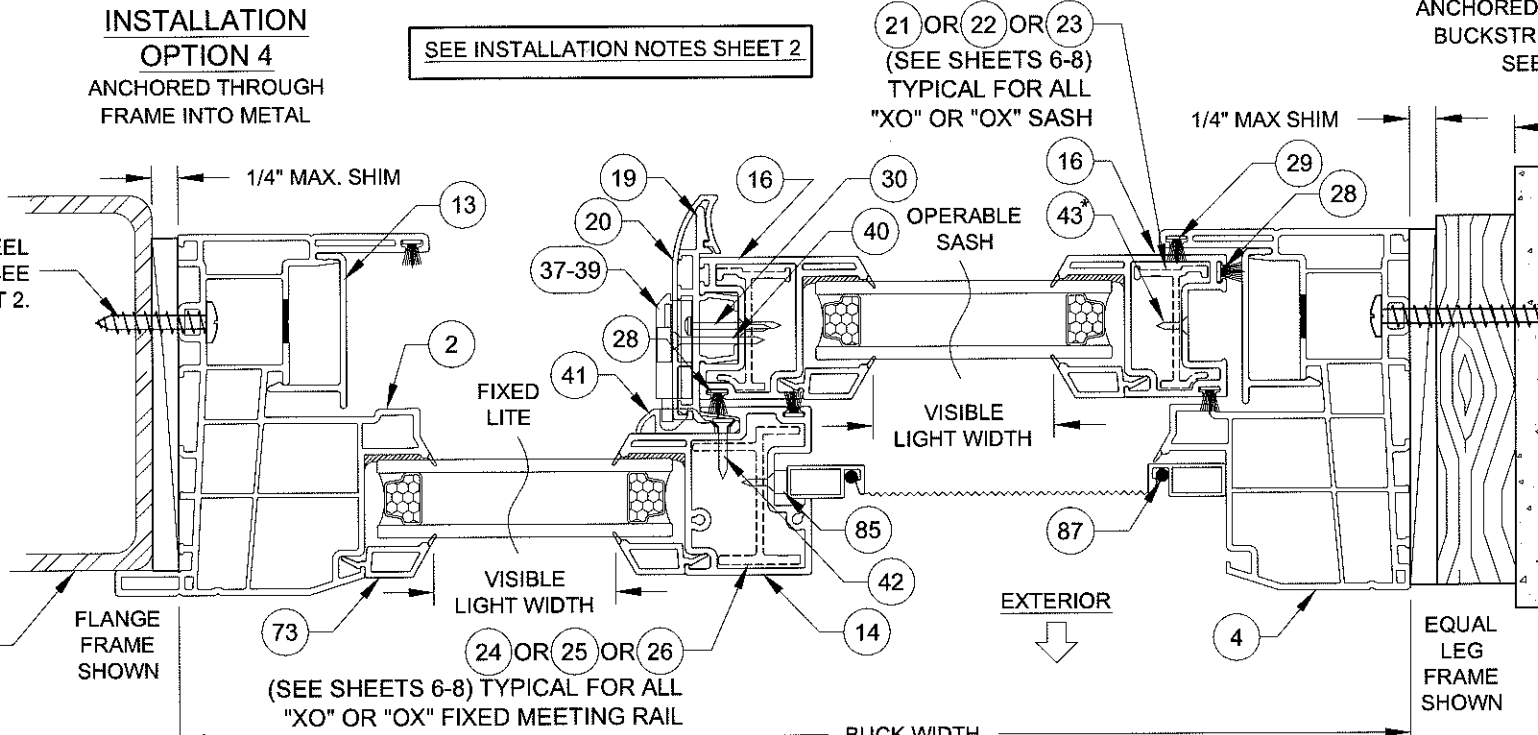
VERTICAL
SECTION B-B

INSTALLATION
OPTION 4

ANCHORED THROUGH
FRAME INTO METAL

#10 OR #12 STEEL
SMS (G5), SEE
TABLE 2, SHEET 2.

DADE APPROVED MULLION,
FBC COMPLIANT
ALUMINUM/STEEL FRAMING
OR STEEL STUD. MAY BE
VERTICAL OR HORIZONTAL.
SEE SUBSTRATE PROPERTIES,
TABLE 2, SHEET 2



SEE INSTALLATION NOTES SHEET 2

21 OR 22 OR 23
(SEE SHEETS 6-8)
TYPICAL FOR ALL
"XO" OR "OX" SASH

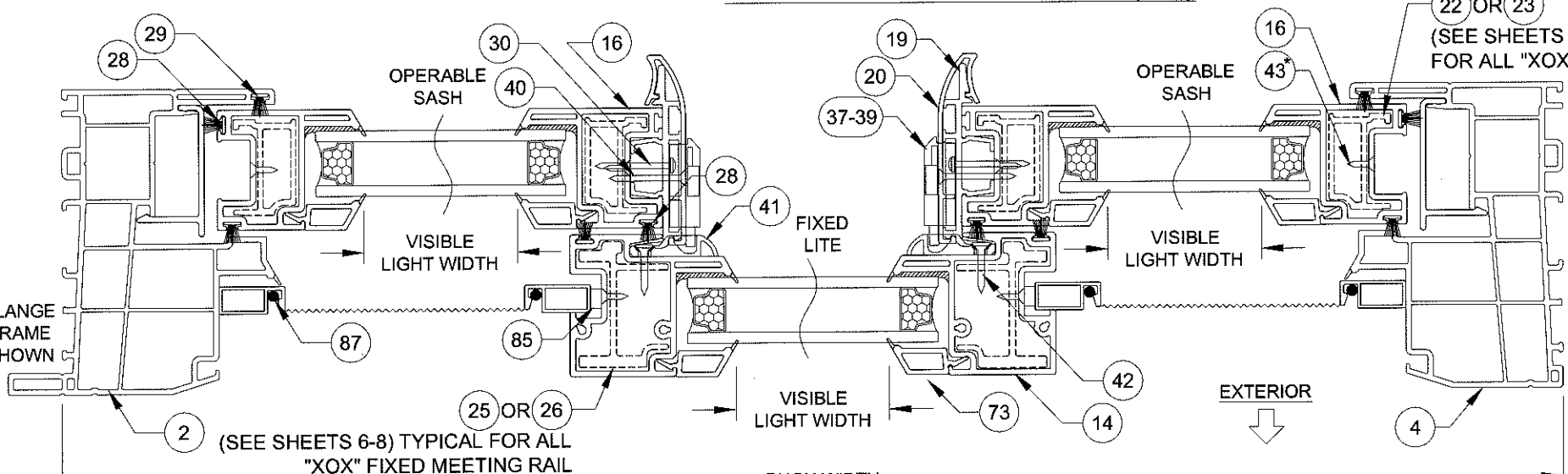
INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND 1X
BUCKSTRIP INTO CONCRETE/CMU.
SEE NOTE 2, SHEET 2.

EMBEDMENT
EDGE DISTANCE

TYP. ANCHOR TYPE,
EMBEDMENT AND
EDGE DISTANCE PER
SUBSTRATE, SEE
TABLE 2, SHEET 2.

(1) AT MID-SPAN OF INTERLOCK
(1) 3-1/2" FROM EACH SASH
CORNER AND (1) AT CENTER OF
SASH STILES/RAILS

HORIZONTAL SECTION A-A (OX)

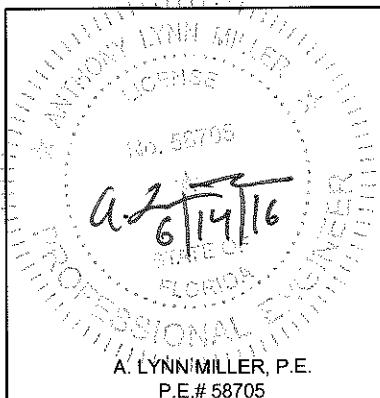


HORIZONTAL SECTION E-E (XOX)

INSTALLATION AS PER SECTION A-A ABOVE

VISIBLE LIGHT FORMULAS
(EQUAL-LITE, XO & OX)

WIDTH: BUCK WIDTH / 2 - 4-1/4"
HEIGHT: BUCK HEIGHT - 7-1/4"



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:

Date:

Revision:

Revised By:

Date:

Revision:

Description:

FLANGE & EQUAL-LEG/BOX FRAMES

Drawn By:

J ROSOWSKI

Title:

HORIZONTAL ROLLER - NI

Date:

05/15/15

Series/Model:

HR-5410

Scale:

NTS

Sheet:

3 OF 15

Drawing No.

MD-HR5410-01

Rev:

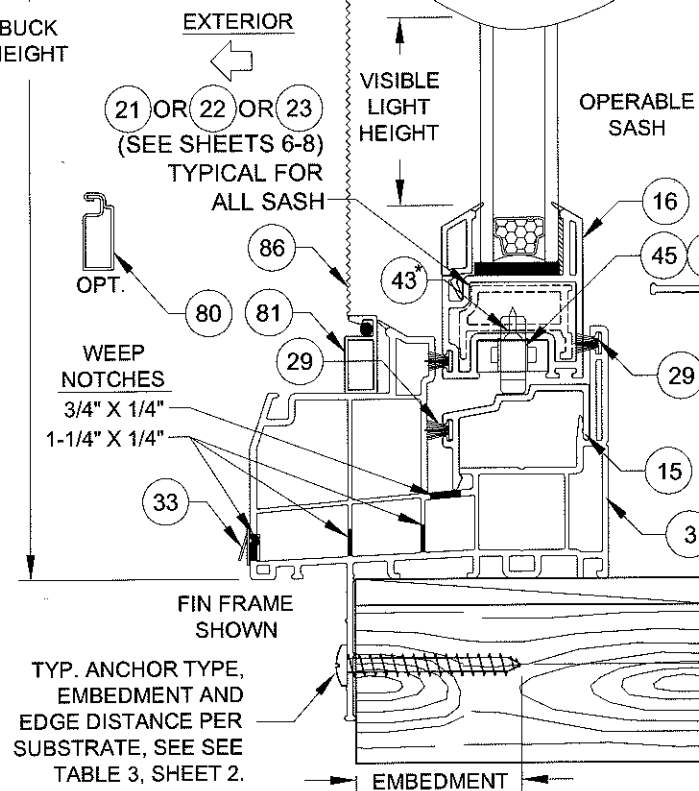
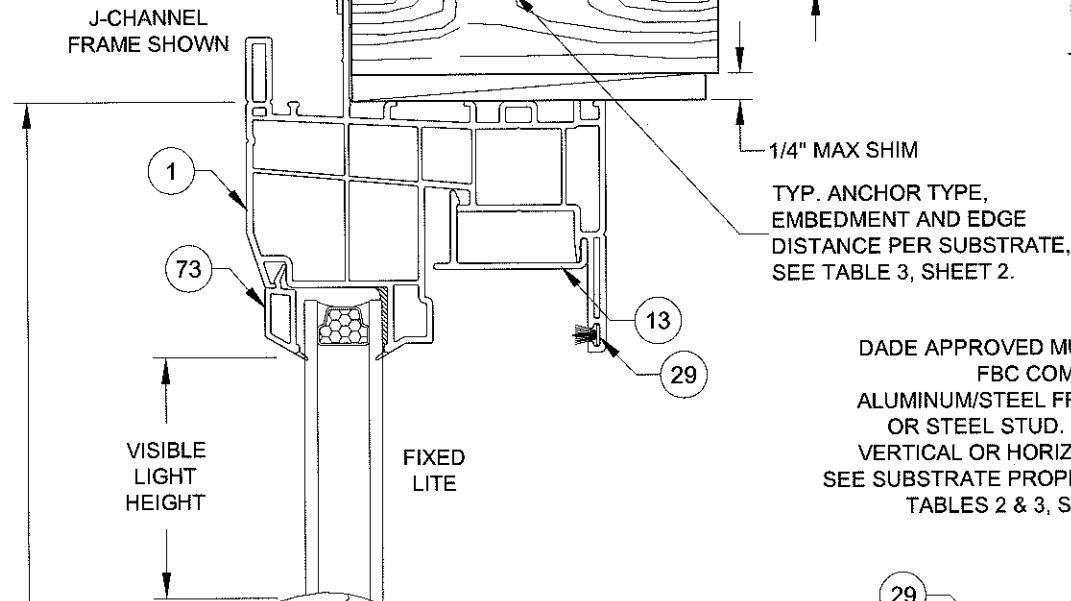
A

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714.18
Expiration Date Sept. 24, 2020
By *W. Rosowski*
Miami Dade Product Control

INSTALLATION DETAILS FOR FIN AND J-CHANNEL FRAMES

INSTALLATION OPTION 5

ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, SHEET 2.



INSTALLATION OPTION 5
ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, SHEET 2.

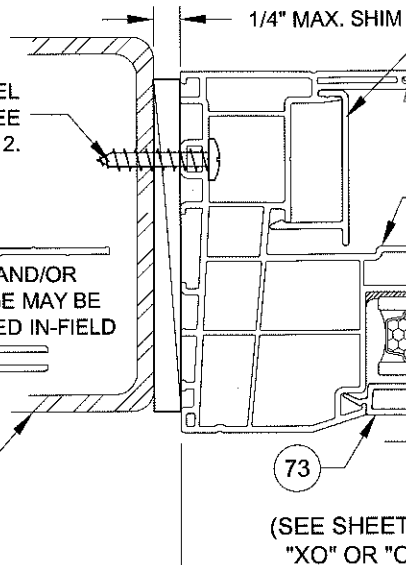
VERTICAL SECTION D-D

INSTALLATION OPTION 7
ANCHORED THROUGH FRAME INTO METAL (INTEGRAL FIN/FLANGE REMOVED)

#10 OR #12 STEEL SMS (G5), SEE TABLE 2, SHEET 2.

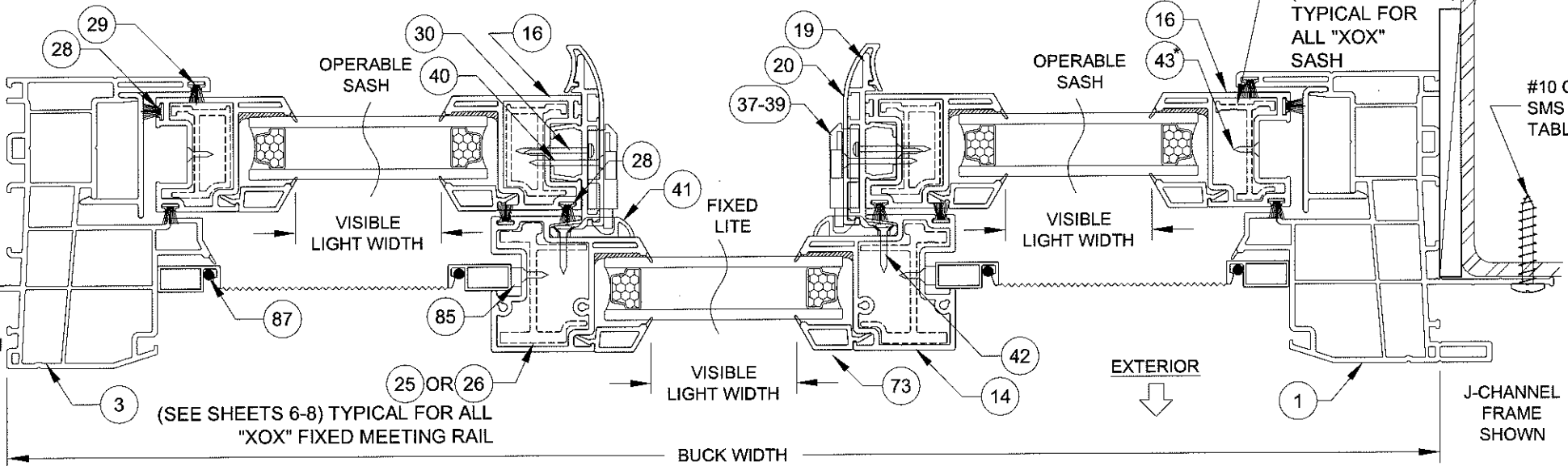
FIN AND/OR FLANGE MAY BE REMOVED IN-FIELD

DADE APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLES 2 & 3, SHEET 2.



SEE INSTALLATION NOTES SHEET 2

HORIZONTAL SECTION C-C (OX)



HORIZONTAL SECTION F-F (XOX)

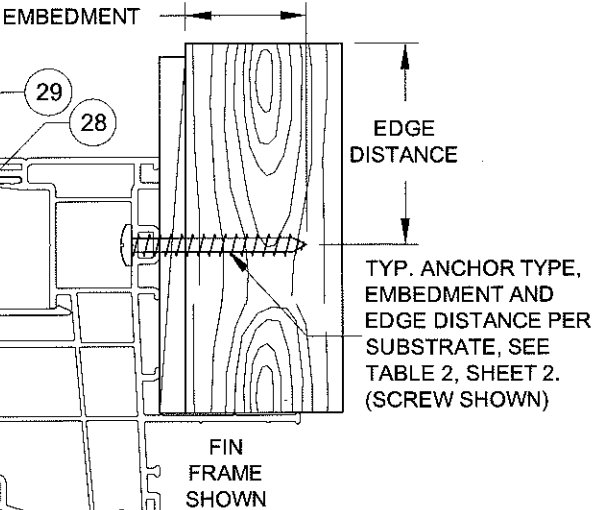
INSTALLATION AS PER SECTION D-D ABOVE

(1) AT MID-SPAN OF INTERLOCK
(1) 3-1/2" FROM EACH SASH CORNER AND (1) AT CENTER OF SASH STILES/RAILS

VISIBLE LIGHT FORMULAS (EQUAL-LITE, XO & OX)

WIDTH: BUCK WIDTH / 2 - 4-1/4"
HEIGHT: BUCK HEIGHT - 7-1/4"

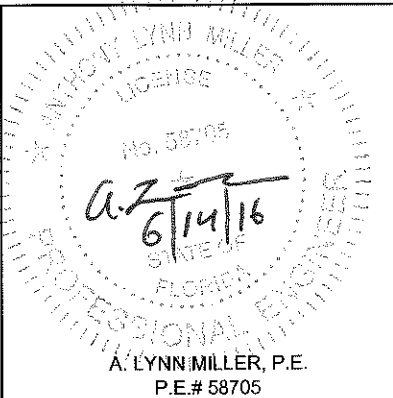
INSTALLATION OPTION 6
ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, SHEET 2.



INSTALLATION OPTION 8
ANCHORED THROUGH FIN INTO METAL (FLANGE MAY BE REMOVED)

#10 OR #12 STEEL SMS (G5), SEE TABLE 2, SHEET 2.

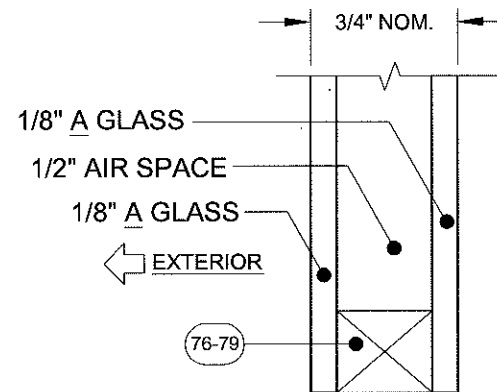
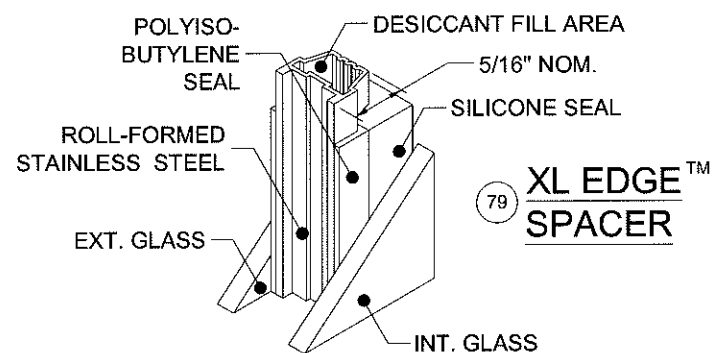
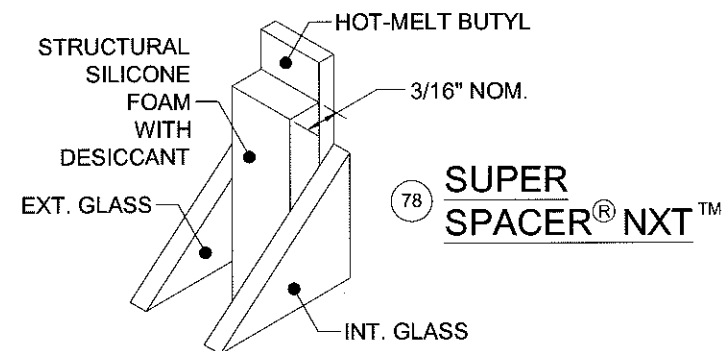
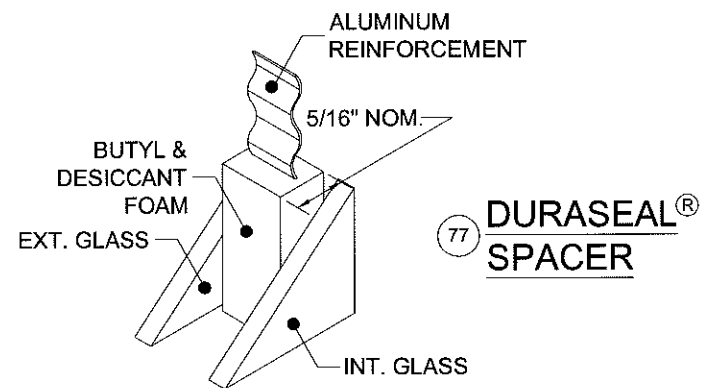
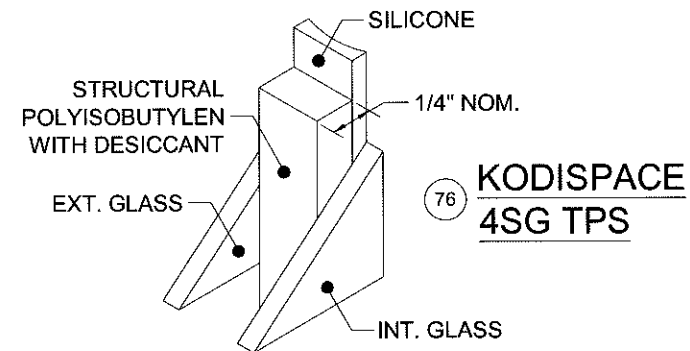
PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0714.18 Expiration Date Sept 24, 2020 By Manuel Perez Miami Dade Product Control



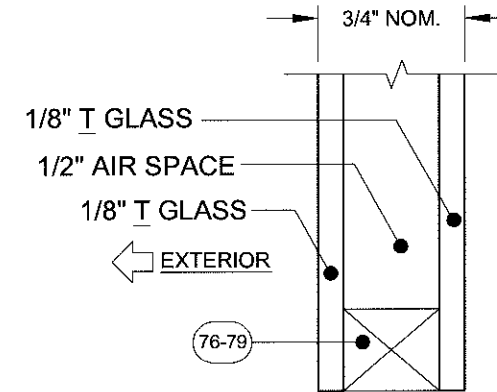
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
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CERT. OF AUTH. #29296

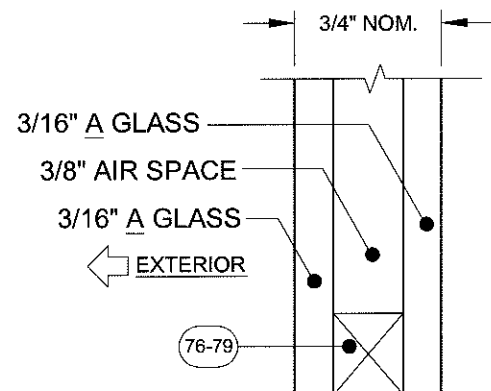
Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: J-CHANNEL & INTEGRAL FIN FRAMES		
Title: HORIZONTAL ROLLER - NI		
Series/Model: HR-5410		
Scale: NTS	Sheet: 4 OF 15	Drawing No. MD-HR5410-01
Date: 05/15/15		Rev: A



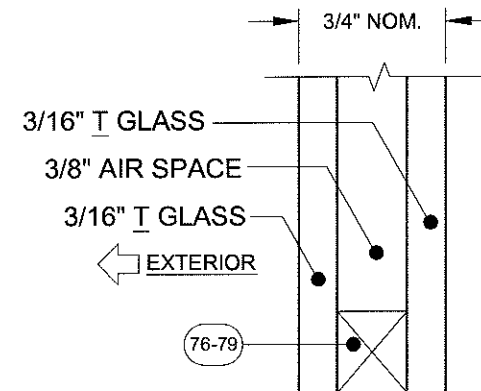
GLASS TYPE 1



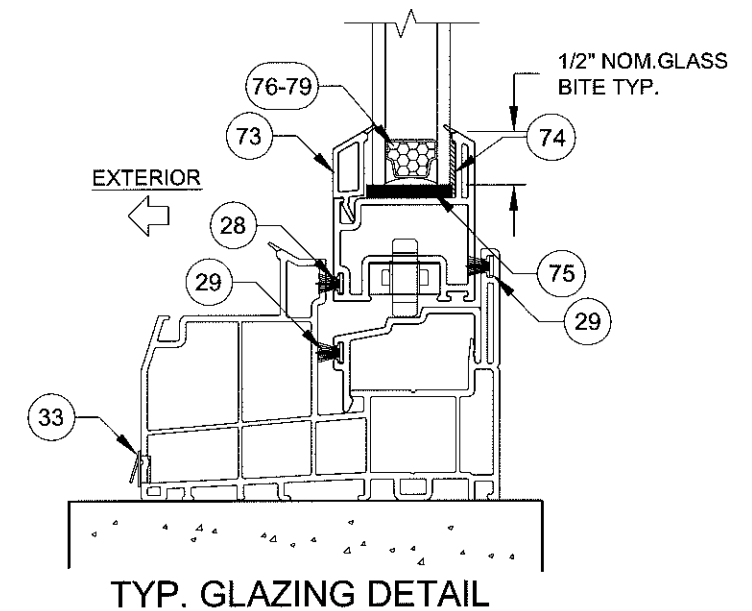
GLASS TYPE 2



GLASS TYPE 3



GLASS TYPE 4

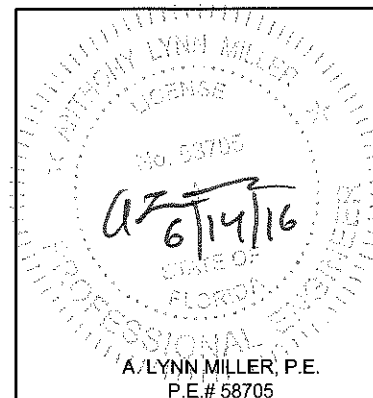


GLAZING NOTES:
"A" = ANNEALED
"T" = TEMPERED

PRODUCT REVISED
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Building Code
Acceptance No. 16-0714.18
Expiration Date Sept. 24, 2020
By *Manuel Perez*
Miami Dade Product Control

Part #	Description	Material
76	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
77	Quanex Super Spacer nXT with Hot Melt Butyl	
78	Quanex Duraseal Spacer	
79	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By: JR	Date: 05/05/16	Revision: A) ADDED SPACERS, MOVED CLSTR. DETAILS.	Description: GLAZING DETAILS			Drawn By: J ROSOWSKI	
Revised By:	Date:	Revision:	Title: HORIZONTAL ROLLER WINDOW - NI			Date: 05/15/15	
Series/Model: HR-5410	Scale: NTS	Sheet: 5 OF 15	Drawing No. MD-HR5410-01	Rev: A			

TABLE 5:

Index to All Design Pressure and Anchor Quantity Tables								
Config.	Max. Width	Max. Height	Glass Type	Reinf. Level	Design Pressure		Anchor Quantity	
					Table #	Page #	Table #	Page #
XO or OX	75"	54"	1	1	6	6	13	9
		54"		2	7	6	14	9
		63"		3	10	7	15	10
	75"	54"	2 - 4	1	6	6	13	9
		54"		2	7	6	14	9
		63"		3	10	7	15	10
		72"		4	11	8	16	10
	120"	63"	1	3	8	7	17	11
XOX	140"	63"	2 - 4	3	9	7	18	12
				4	12	8	19	13

TABLE 6:

Glass Types 1 - 4		Design Pressure (lbs/ft ²) for XO or OX Windows							
Reinf. Level R1	Window Buck Height	30"				36"			
		30"	36"	48"	54"	30"	36"	48"	54"
Window Buck Width	25-1/2"	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0
	28"	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0
	36"	+65.0	-100.0	+65.0	-100.0	+65.0	-94.2	+65.0	-81.6
	42"	+65.0	-100.0	+65.0	-100.0	+65.0	-83.9	+65.0	-72.4
	48"	+65.0	-100.0	+65.0	-100.0	+65.0	-76.5	+65.0	-65.6
	60"	+65.0	-100.0	+65.0	-100.0	+65.0	-66.8	+56.5	-56.5
	75"	+65.0	-100.0	+65.0	-94.9	+60.3	-60.3	+50.0	-50.0
	75"	+65.0	-100.0	+65.0	-94.9	+60.3	-60.3	+50.0	-50.0

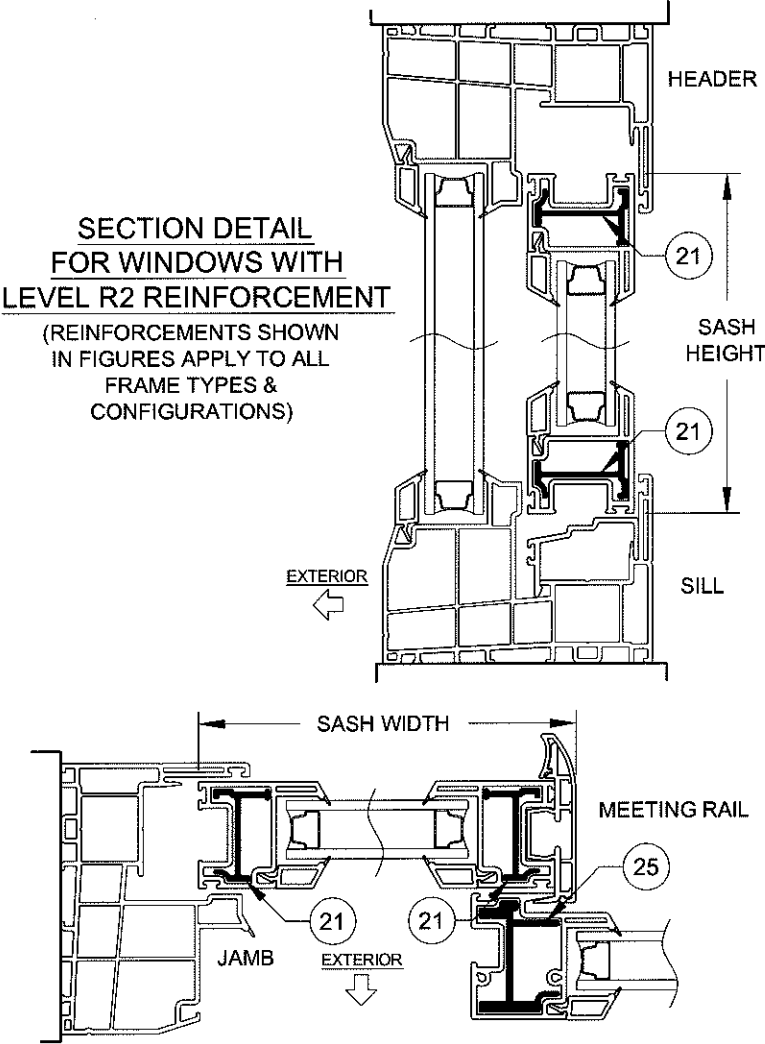
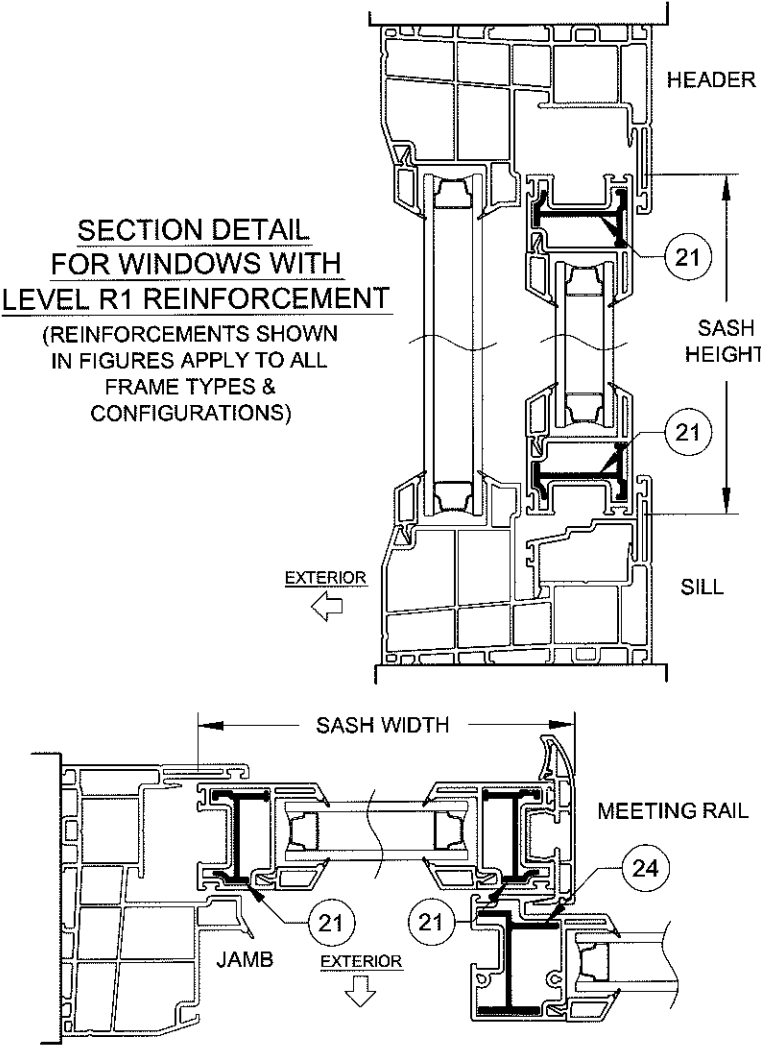
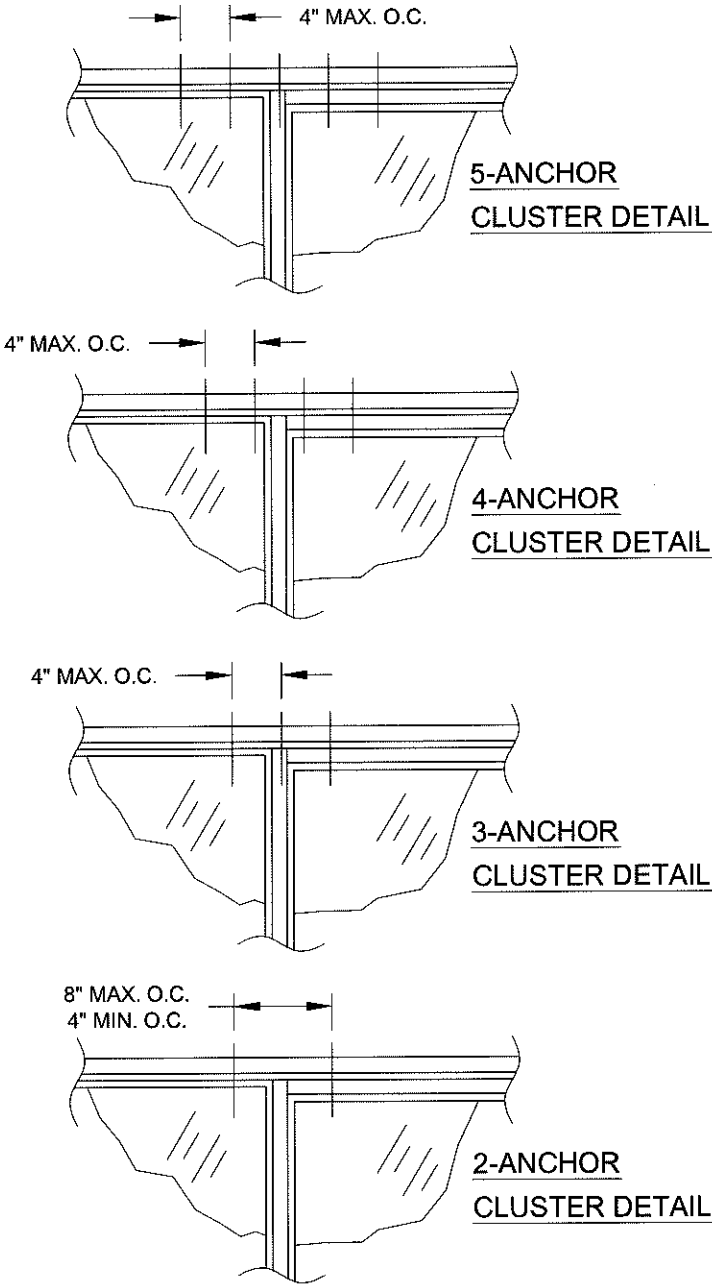
SEE TABLE 13 FOR ANCHORAGE

TABLE 7:

Glass Types 1 - 4		Design Pressure (lbs/ft ²) for XO or OX Windows							
Reinf. Level R2	Window Buck Height	30"				36"			
		30"	36"	48"	54"	30"	36"	48"	54"
Window Buck Width	25-1/2"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	28"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	36"	+65.0	-130.0	+65.0	-130.0	+65.0	-116.5	+65.0	-109.5
	42"	+65.0	-130.0	+65.0	-130.0	+65.0	-91.7	+65.0	-82.4
	48"	+65.0	-130.0	+65.0	-129.4	+65.0	-85.9	+65.0	-72.6
	60"	+65.0	-130.0	+65.0	-114.8	+65.0	-83.5	+65.0	-71.8
	75"	+65.0	-109.5	+65.0	-94.9	+65.0	-72.9	+65.0	-65.5*
	75"	+65.0	-109.5	+65.0	-94.9	+65.0	-72.9	+65.0	-65.5*

* +65/-70 FOR GLASS TYPES 2-4

SEE TABLE 14 FOR ANCHORAGE



NOTES:
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 "1/3-1/3-1/3" 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

PGT
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P.E.# 58705

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CERT. OF AUTH. #29296

Revised By: JR Date: 05/05/16
Revised By: Date: Revision: A) MOVED CLUSTER DETAILS
Description: DESIGN PRESSURE TABLES
Title: HORIZONTAL ROLLER - NI
Series/Model: HR-5410 Scale: NTS Sheet: 6 OF 15
Drawing No. MD-HR5410-01 Rev: A

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 16-0714.18 Expiration Date Sept. 24, 2020
By: Manual Perez Miami Dade Product Control

Drawn By: J ROSOWSKI
Date: 05/15/15

TABLE 8:

Glass Type 1	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows									
			Window Buck Height									
			30"		36"		48"		54"		63"	
Window Buck Width	35-1/4"	1/3-1/3-1/3	11.391 - 11.391	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -93.0	
	38"	1/3-1/3-1/3	12.308 - 12.308	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	
	45-1/8"	1/4-1/2-1/4	11.391 - 13.397	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -89.0	+65.0 -77.9	+65.0 -69.5	+65.0 -69.5	+65.0 -69.5	
		1/3-1/3-1/3	13.398 - 14.683	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -96.5	
	47-3/4"	1/4-1/2-1/4	11.391 - 12.297	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -85.6	+65.0 -72.2	+59.6 -59.6	+59.6 -59.6	+59.6 -59.6	
		1/3-1/3-1/3	12.298 - 15.558	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -87.2	+65.0 -74.9	+65.0 -65.9	+65.0 -65.9	+65.0 -65.9	
	52-1/8"	Custom	11.391 - 12.016	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -84.4	+65.0 -71.8	+56.3 -56.3	+56.3 -56.3	+56.3 -56.3	
		1/4-1/2-1/4	12.017 - 13.397	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -85.0	+65.0 -71.8	+56.1 -56.1	+56.1 -56.1	+56.1 -56.1	
	60"	1/3-1/3-1/3	13.398 - 17.016	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -85.4	+65.0 -72.0	+58.7 -58.7	+58.7 -58.7	+58.7 -58.7	
		Custom	11.391 - 13.397	+65.0 -100.0	+65.0 -96.9	+65.0 -96.9	+65.0 -73.9	+65.0 -66.6	+55.9 -55.9	+55.9 -55.9	+55.9 -55.9	
	75"	1/4-1/2-1/4	13.398 - 15.360	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -80.8	+65.0 -70.7	+57.6 -57.6	+57.6 -57.6	+57.6 -57.6	
		1/3-1/3-1/3	15.361 - 19.641	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -84.5	+65.0 -71.8	+56.3 -56.3	+56.3 -56.3	+56.3 -56.3	
	96"	1/4-1/2-1/4	17.141 - 19.110	+65.0 -100.0	+65.0 -89.3	+65.0 -89.3	+65.0 -68.8	+61.4 -61.4	+52.5 -52.5	+52.5 -52.5	+52.5 -52.5	
		1/3-1/3-1/3	19.111 - 24.641	+65.0 -100.0	+65.0 -98.1	+65.0 -98.1	+65.0 -74.5	+65.0 -67.2	+56.1 -56.1	+56.1 -56.1	+56.1 -56.1	
	120"	Custom	27.641 - 32.516	+65.0 -100.0	+65.0 -89.3	+65.0 -89.3	+65.0 -68.8	+61.4 -61.4	+52.5 -52.5	+52.5 -52.5	+52.5 -52.5	
		1/3-1/3-1/3	32.517 - 39.641	+65.0 -100.0	+65.0 -91.3	+65.0 -91.3	+65.0 -70.6	+63.0 -63.0	+53.7 -53.7	+53.7 -53.7	+53.7 -53.7	

** MIN. SASH SIZE = WINDOW WIDTH - 40.72
2
SEE TABLE 17 FOR ANCHORAGE

TABLE 9:

Glass Types 2 - 4	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows									
			Window Buck Height									
			30"		36"		48"		54"		63"	
Window Buck Width	35-1/4"	1/3-1/3-1/3	11.391 - 11.391	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	
	38"	1/3-1/3-1/3	12.308 - 12.308	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	
	45-1/8"	1/4-1/2-1/4	11.391 - 13.397	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -97.9	
		1/3-1/3-1/3	13.398 - 14.683	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	
	47-3/4"	1/4-1/2-1/4	11.391 - 12.297	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -95.2	
		1/3-1/3-1/3	12.298 - 15.558	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -91.2	
	52-1/8"	Custom	11.391 - 12.016	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -88.5	
		1/4-1/2-1/4	12.017 - 13.397	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -87.5	
	60"	1/3-1/3-1/3	13.398 - 17.016	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -84.8	
		Custom	11.391 - 13.397	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -94.8	+65.0 -77.0	+65.0 -77.0	+65.0 -77.0	
	75"	1/4-1/2-1/4	13.398 - 15.360	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -94.9	+65.0 -77.7	+65.0 -77.7	+65.0 -77.7	
		1/3-1/3-1/3	15.361 - 19.641	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -92.1	+65.0 -75.7	+65.0 -75.7	+65.0 -75.7	
	96"	Custom	11.391 - 13.397	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -94.4	+65.0 -86.8	+65.0 -68.7	+65.0 -68.7	+65.0 -68.7	
		1/4-1/2-1/4	13.398 - 19.110	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -97.3	+65.0 -80.4	+63.8 -63.8	+63.8 -63.8	+63.8 -63.8	
	120"	1/3-1/3-1/3	19.111 - 24.641	+65.0 -100.0	+65.0 -100.0	+65.0 -100.0	+65.0 -94.1	+65.0 -79.4	+64.3 -64.3	+64.3 -64.3	+64.3 -64.3	
		Custom	17.641 - 19.397	+65.0 -100.0	+65.0 -90.4	+65.0 -90.4	+65.0 -82.8	+65.0 -75.6	+60.9 -60.9	+60.9 -60.9	+60.9 -60.9	

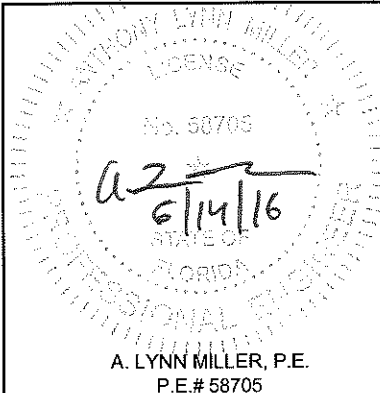
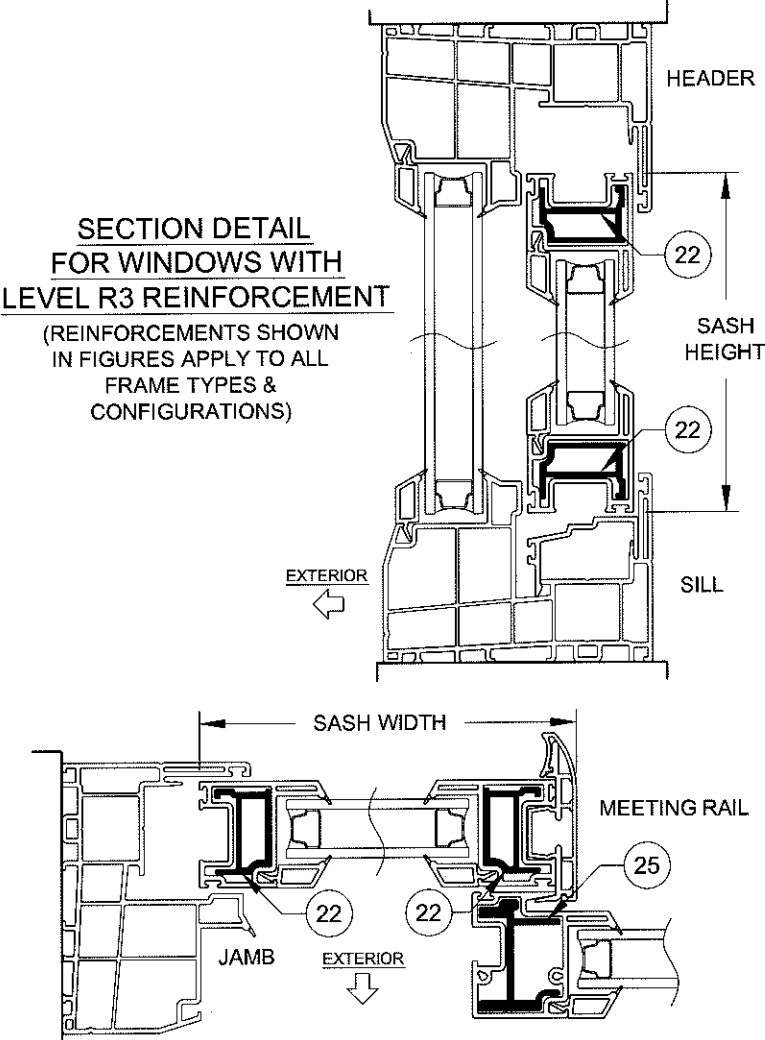
** MIN. SASH SIZE = WINDOW WIDTH - 60.72
2
SEE TABLE 18 FOR ANCHORAGE

NOTES:
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 "1/3-1/3-1/3" 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 10:

Glass Types 1 - 4	Reinf. Level R3	Design Pressure (lbs/ft ²) for XO or OX Windows									
		Window Buck Height									
		30"		36"		48"		54"		63"	
Window Buck Width	25-1/2"	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0
	28"	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0
	36"	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0	+65.0	-100.0	+65.0	-85.4
	42"	+65.0	-100.0	+65.0	-100.0	+65.0	-91.7	+65.0	-82.4	+65.0	-74.1
	48"	+65.0	-100.0	+65.0	-100.0	+65.0	-85.9	+65.0	-72.6	+60.9	-60.9
	60"	+65.0	-100.0	+65.0	-100.0	+65.0	-83.5	+65.0	-70.9	+56.7	-56.7
	75"	+65.0	-100.0	+65.0	-94.9	+65.0	-72.9	+62.8	-62.8	+50.0	-50.0

SEE TABLE 15 FOR ANCHORAGE



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:

Description:
DESIGN PRESSURE TABLES

Title:
HORIZONTAL ROLLER - NI

Series/Model:	Scale:	Sheet:
HR-5410	NTS	7 OF 15

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714.18
Expiration Date Sept 24, 2020
By Manuel Perez
Miami Trade Product Control

Drawn By:
J ROSOWSKI

Date:
05/15/15

Drawing No.	Rev:
MD-HR5410-01	A

TABLE 11:

Glass Types 2 - 4		Design Pressure (lbs/ft ²) for XO or OX Windows									
Reinf. Level R4	Window Buck Height										
		36"		48"		54"		63"		72"	
Window Buck Width	25-1/2"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	28"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	36"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-123.3
	42"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-126.8	+65.0	-108.2
	48"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-114.2	+65.0	-97.1
	60"	+65.0	-130.0	+65.0	-130.0	+65.0	-112.6	+65.0	-94.1	+65.0	-81.7
	75"	+65.0	-130.0	+65.0	-119.3	+65.0	-104.0	+65.0	-84.2	+65.0	-70.0

SEE TABLE 16 FOR ANCHORAGE

TABLE 12:

Glass Types 2 - 4		Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows									
				Window Buck Height									
Reinf. Level R4				30"	36"		48"		54"		63"		
Window Buck Width	35-1/4"	⅛-⅛-⅛	11.391 - 11.391	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	38"	⅛-⅛-⅛	12.308 - 12.308	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	45-1/8"	¼-½-¼	11.391 - 13.397	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
		⅛-⅛-⅛	13.398 - 14.683	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	47-3/4"	¼-½-¼	11.391 - 12.297	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-128.9
		⅛-⅛-⅛	12.298 - 15.558	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-127.7
	52-1/8"	Custom	11.391 - 12.016	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-116.2	+65.0	-98.2
		¼-½-¼	12.017 - 13.397	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-121.3	+65.0	-104.3
		⅛-⅛-⅛	13.398 - 17.016	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-118.7
	60"	Custom	11.391 - 13.397	+65.0	-130.0	+65.0	-130.0	+65.0	-120.4	+65.0	-104.8	+65.0	-86.2
		¼-½-¼	13.398 - 15.360	+65.0	-130.0	+65.0	-130.0	+65.0	-127.2	+65.0	-108.2	+65.0	-89.2
		⅛-⅛-⅛	15.361 - 19.641	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-116.4	+65.0	-98.5
	75"	Custom	11.391 - 13.397	+65.0	-119.7	+65.0	-109.6	+65.0	-94.4	+65.0	-86.8	+65.0	-75.2
		¼-½-¼	13.398 - 19.110	+65.0	-130.0	+65.0	-121.2	+65.0	-102.2	+65.0	-91.7	+65.0	-79.3
		⅛-⅛-⅛	19.111 - 24.641	+65.0	-130.0	+65.0	-130.0	+65.0	-121.1	+65.0	-105.2	+65.0	-86.4
	96"	Custom	17.641 - 19.397	+65.0	-100.0	+65.0	-90.4	+65.0	-82.8	+65.0	-75.6	+65.0*	-67.3*
		¼-½-¼	19.398 - 24.360	+65.0	-106.9	+65.0	-97.4	+65.0	-87.8	+65.0	-80.2	+65.0	-70.4
		⅛-⅛-⅛	24.361 - 31.641	+65.0	-130.0	+65.0	-124.2	+65.0	-103.8	+65.0	-92.7	+65.0	-77.3
	120"	¼-½-¼	29.641 - 32.515	+65.0	-100.0	+65.0	-90.4	+65.0	-82.8	+65.0	-75.6	+65.0*	-67.3*
		⅛-⅛-⅛	32.516 - 39.641	+65.0	-111.6	+65.0	-103.0	+65.0	-90.6	+65.0	-83.4	+65.0	-70.7
	140"	Custom	** - 39.641	+65.0	-100.0	+65.0	-90.4	+65.0	-82.8	+65.0	-75.6	+65.0*	-67.3*

* +65/-70 FOR GLASS TYPES 2 & 4

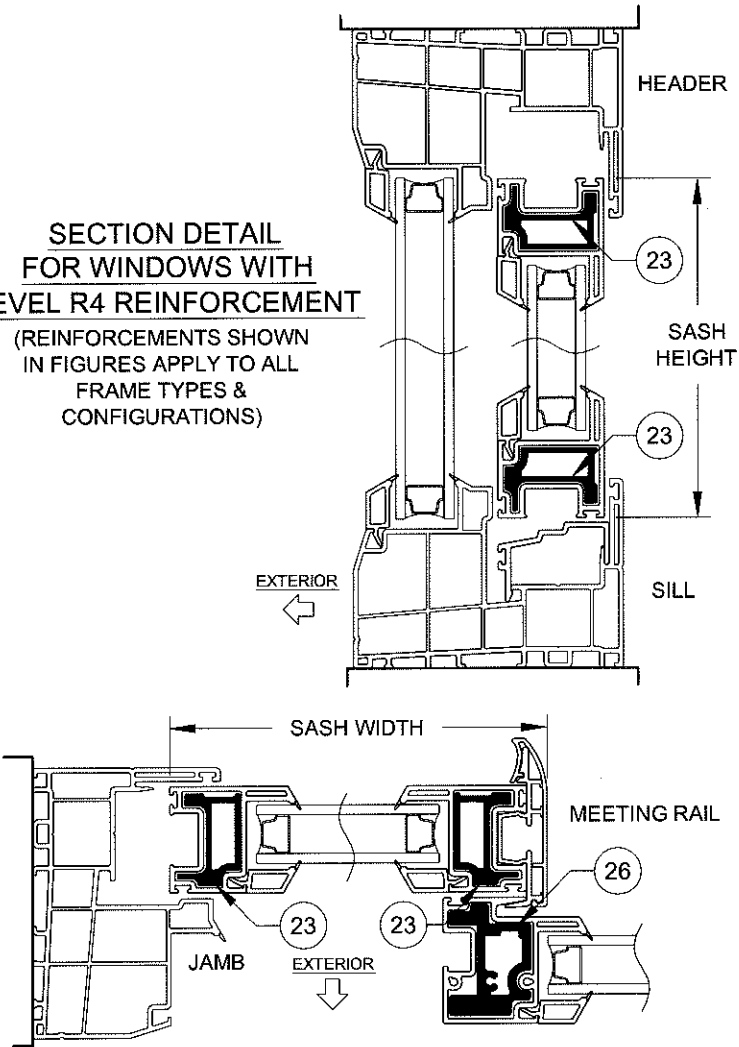
SEE TABLE 19 FOR ANCHORAGE

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 60.72}{2}$

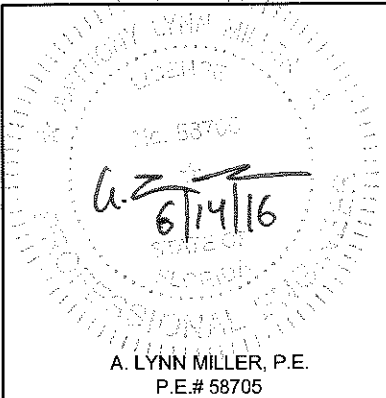
NOTES:

- 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 "1/3-1/3-1/3" 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.

SECTION DETAIL
FOR WINDOWS WITH
LEVEL R4 REINFORCEMENT
(REINFORCEMENTS SHOWN
IN FIGURES APPLY TO ALL
FRAME TYPES &
CONFIGURATIONS)



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714-18
Expiration Date Sept 24, 2020
By Manuel J. J. J.
Miami Dade Product Control



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:

Description:
DESIGN PRESSURE TABLES

Title:
HORIZONTAL ROLLER - NI

Series/Model:
HR-5410

Scale:
NTS

Sheet:
8 OF 15

Drawing No.
MD-HR5410-01

Rev:
A

Drawn By:
J ROSOWSKI

Date:
05/15/15

TABLE 13:

Glass Types 1 - 4		Sash Width (in)	Anchor Quantities for XO or OX Windows															
			30" Height				36" Height				48" Height				54" Height			
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
Reinf. Level R1		Window Buck Width	Anchor Group A								Anchor Group C							
			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
	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
	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
	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
	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
	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
		Window Buck Width	Anchor Group B								Anchor Group D							
			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
	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
	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
	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
	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
	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

TABLE 14:

Glass Types 1 - 4		Sash Width (in)	Anchor Quantities for XO or OX Windows															
			30" Height				36" Height				48" Height				54" Height			
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
Reinf. Level R2		Window Buck Width	Anchor Group A								Anchor Group C							
			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
	25-1/2"	12.147	Not Allowed								1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	28"	13.397									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
	42"	20.397									1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	48"	23.397									1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	60"	29.397									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
		Window Buck Width	Anchor Group B								Anchor Group D							
			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
	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
	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
	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
	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
	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

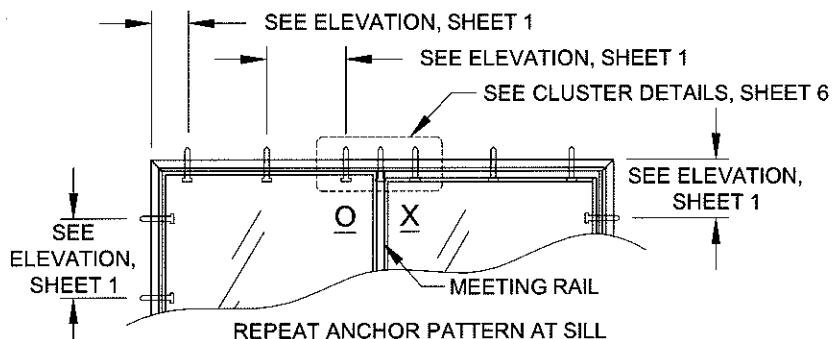
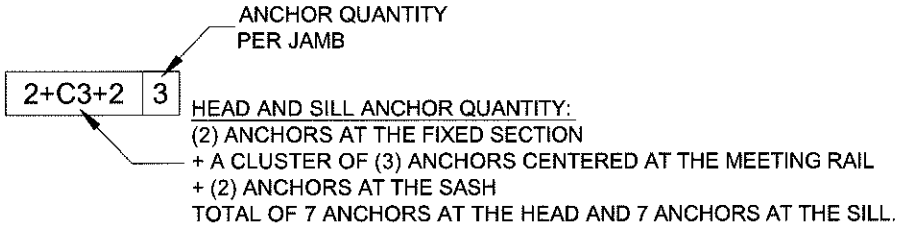
SEE TABLE 7 FOR DESIGN PRESSURE

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

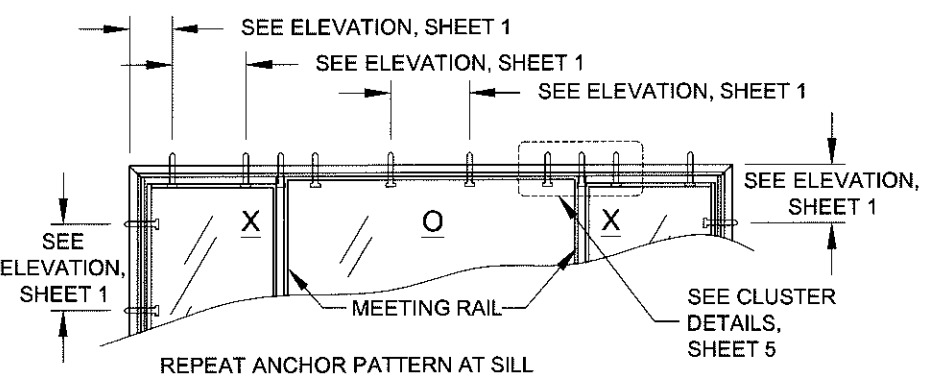
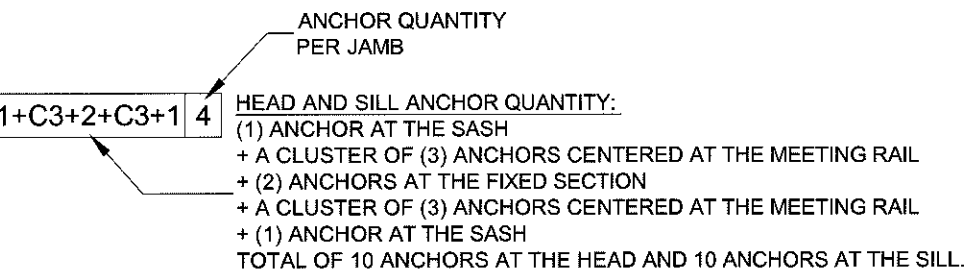
Anchor Group E	Anchor Group F
2.5"	4"

GUIDE TO USING ANCHOR QUANTITY TABLES

FOR OX WINDOWS (XO SIMILAR):



FOR XOX WINDOWS:



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

Anchor Group F
4"

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.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714-18
Expiration Date 3-24-2020
By Manuel Perez
Miami/Dade Product Control

Rev 1
Rev 2

		CERT. OF AUTH. #29296		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941)-480-1600	
ANCHOR QUANTITY TABLES		Date		05/15/15	
HORIZONTAL ROLLER - NI		Drawn By		J ROSOWSKI	
HR-5410		Scale		NTS	
9 OF 15		Sheet		MD-HR5410-01	
Series		Desc.		Rev.	
				A	

A2
6/14/16
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 15:

Glass Types 1 - 4			Sash Width (in)	Anchor Quantities for XO or OX Windows																		
Reinf. Level R3		30" Height		36" Height		48" Height		54" Height		63" Height		30" Height		36" Height		48" Height		54" Height		63" Height		
		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
			Anchor Group A										Anchor Group C									
Window Buck Width	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+C3+1	4	1+C3+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+C3+1	4	1+C3+1	4	1+C3+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+C3+1	4	1+C3+1	4	1+C3+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+C3+2	4	2+C3+2	4	2+C3+2	4	2+C3+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+C3+2	4	2+C3+2	4	2+C3+2	4	2+C3+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4	
			Anchor Group B										Anchor Group D									
Window Buck Width	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	

SEE TABLE 10 FOR DESIGN PRESSURE

**Max. Anchor O.C.
Spacing for "Integral-
Fin" Installation**

Anchor Group E	Anchor Group F
2.5"	4"

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.

4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" 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 16:

Glass Types 2 - 4		Sash Width (in)	Anchor Quantities for XO or OX Windows																							
			30" Height		36" Height		48" Height		54" Height		63" Height		72" Height		30" Height		36" Height		48" Height		54" Height		63" Height		72" Height	
Reinf. Level R4			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	Head & Sill	Jamb	Head & Sill	Jamb
			Anchor Group A												Anchor Group C											
Window Buck Width	25-1/2"	12.147	Not Allowed												1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
	28"	13.397													1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
	36"	17.397													1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5
	42"	20.397													1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5
	48"	23.397													1+C2+1	2	1+C3+1	3	1+C4+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5
	60"	29.397													2+C2+2	2	2+C3+2	3	2+C4+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5
	75"	36.897													2+C2+2	2	2+C3+2	3	2+C4+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5
			Anchor Group B												Anchor Group D											
Window Buck Width	25-1/2"	12.147	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
	28"	13.397	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
	36"	17.397	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5
	42"	20.397	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5
	48"	23.397	1+C2+1	2	1+C3+1	3	1+C4+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5	1+C2+1	2	1+C3+1	3	1+C4+1	4	1+C4+1	4	1+C4+1	5	1+C4+1	5
	60"	29.397	2+C2+2	2	2+C3+2	3	2+C4+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C3+2	3	2+C4+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5
	75"	36.897	2+C2+2	2	2+C3+2	3	2+C4+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C3+2	3	2+C4+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5

SEE TABLE 11 FOR DESIGN PRESSURE

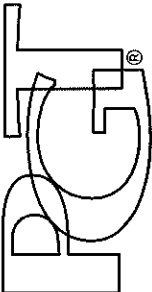
**Max. Anchor O.C.
Spacing for
"Integral-Fin"**

Anchor Group F
3.1"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. _____
Expiration Date _____

By _____
Miami Dade Product Control

Rev 1	
Rev 2	

				1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941)-480-1600			
CERT. OF AUTH. #29296				ANCHOR QUANTITY TABLES		Date	05/15/15
				HORIZONTAL ROLLER - NI		By	J ROSOWSKI
HR-5410		Scale	NTS	Sheet	10 OF 15	DWG No.	MD-HR5410-01
Series		Des		Title		Rev.	
						A	

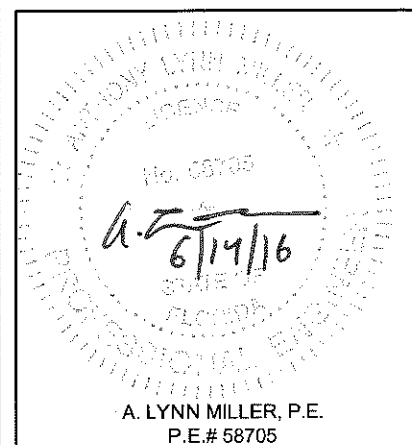


TABLE 17:

Glass Type 1		Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows																							
				24" Height		30" Height		36" Height		48" Height		54" Height		63" Height		24" Height		30" Height		36" Height		48" Height		54" Height		63" Height	
				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	Head & Sill	Jamb	Head & Sill	Jamb
Reinf. Level R3				Anchor Group A												Anchor Group C											
Window Buck Width	35-1/4"	⅓-⅓-⅓	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+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	1+C2+0+C2+1	4
	38"	⅓-⅓-⅓	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+C3+0+C3+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	1+C3+0+C3+1	4
	45-1/8"	¼-½-¼	11.391 - 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+1	4	1+C3+0+C3+1	4	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
		⅓-⅓-⅓	13.398 - 14.683	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	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
	47-3/4"	¼-½-¼	11.391 - 12.297	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	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
		⅓-⅓-⅓	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	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
	52-1/8"	Custom	11.391 - 12.016	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	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+1	4
		¼-½-¼	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+C3+0+C3+1	4	1+C3+0+C3+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+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	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+C3+0+C3+1	4	1+C3+0+C3+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+C3+0+C3+1	4	1+C3+0+C3+1	4
	60"	Custom	11.391 - 13.397	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+C3+2+C3+1	4	1+C3+1+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+1+C3+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
		¼-½-¼	13.398 - 15.360	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+1+C3+1	4	1+C3+1+C3+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
		⅓-⅓-⅓	15.361 - 19.641	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+C3+0+C3+1	4	1+C3+0+C3+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+C3+0+C3+1	4	1+C3+0+C3+1	4
	75"	¼-½-¼	17.141 - 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+C3+2+C3+1	4	1+C3+2+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+1+C2+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
		⅓-⅓-⅓	19.111 - 24.641	1+C2+0+C2+1	2	1+C3+0+C3+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+C3+0+C3+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
	96"	⅓-⅓-⅓	27.641 - 32.516	2+C2+2+C2+2	2	2+C2+2+C2+2	2	2+C2+2+C2+2	3	2+C3+2+C3+2	4	1+C3+2+C3+1	4	1+C3+2+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
		Custom	32.517 - 39.641	2+C2+0+C2+2	2	2+C3+0+C3+2	2	2+C3+0+C3+2	3	2+C3+0+C3+2	4	2+C3+0+C3+2	4	2+C3+0+C3+2	4	2+C2+0+C2+2	2	2+C3+0+C3+2	2	2+C3+0+C3+2	3	2+C3+0+C3+2	4	2+C3+0+C3+2	4	2+C3+0+C3+2	4
	120"	⅓-⅓-⅓	** - 39.641	2+C2+2+C2+2	2	3+C2+2+C2+3	2	2+C2+2+C2+3	3	2+C3+2+C3+2	4	2+C3+2+C3+2	4	2+C3+2+C3+2	4	2+C2+2+C2+2	2	2+C2+2+C2+2	2	2+C2+2+C2+2	3	2+C3+2+C3+2	4	2+C3+2+C3+2	4	2+C3+2+C3+2	4
Window Buck Width				Anchor Group B												Anchor Group D											
	35-1/4"	⅓-⅓-⅓	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+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	1+C2+0+C2+1	4
	38"	⅓-⅓-⅓	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+C3+0+C3+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	1+C3+0+C3+1	4
	45-1/8"	¼-½-¼	11.391 - 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+1	4	1+C3+0+C3+1	4	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
		⅓-⅓-⅓	13.398 - 14.683	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	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
	47-3/4"	¼-½-¼	11.391 - 12.297	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	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
		⅓-⅓-⅓	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	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
	52-1/8"	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+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	4
		¼-½-¼	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+C3+0+C3+1	4	1+C3+0+C3+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+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	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+C3+0+C3+1	4	1+C3+0+C3+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+C3+0+C3+1	4	1+C3+0+C3+1	4
	60"	Custom	11.391 - 13.397	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+1+C2+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C2+1+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+1+C2+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
		¼-½-¼	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
		⅓-⅓-⅓	15.361 - 19.641	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+C3+0+C3+1	4	1+C3+0+C3+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+C3+0+C3+1	4	1+C3+0+C3+1	4
	75"	¼-½-¼	17.141 - 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+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+1+C2+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
		⅓-⅓-⅓	19.111 - 24.641	1+C2+0+C2+1	2	1+C3+0+C3+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+C3+0+C3+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
	96"	⅓-⅓-⅓	27.641 - 32.516	2+C2+2+C2+2	2	2+C2+2+C2+2	2	1+C2+2+C2+2	3	1+C3+2+C3+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
		Custom	32.517 - 39.641	2+C2+0+C2+2	2	2+C3+0+C3+2	2	2+C3+0+C3+2	3	2+C3+0+C3+2	4	2+C3+0+C3+2	4	2+C3+0+C3+2	4	2+C2+0+C2+2	2	2+C3+0+C3+2	2	2+C3+0+C3+2	3	2+C3+0+C3+2	4	2+C3+0+C3+2	4	2+C3+0+C3+2	4
120"	⅓-⅓-⅓	** - 39.641	2+C2+2+C2+2	2	2+C2+2+C2+2	2	2+C2+2+C2+2	3	2+C3+2+C3+2	4	2+C3+2+C3+2	4	2+C3+2+C3+2	4	2+C2+2+C2+2	2	2+C2+2+C2+2	2	2+C2+2+C2+2	3	2+C3+2+C3+2	4	2+C3+2+C3+2	4	2+C3+2+C3+2	4	

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 40.72}{2}$

SEE TABLE 8 FOR DESIGN PRESSURE

Max. Anchor O.C. Spacing for "Integral- Fin" Installation	Anchor Group E	Anchor Group F
	2.3"	4"

NOTES:
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 "1/3-1/3-1/3" 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
Acceptance No. 16-0714.18
Expiration Date Sept 24, 2020
By *Manuel Perez*
Miami Dade Product Control

Rev 1
Rev 2

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
(941)-480-1600

CERT. OF AUTH. #29296

ANCHOR QUANTITY TABLES

HORIZONTAL ROLLER - NI

HR-5410 NTS

11 OF 15

05/15/15

J ROSOWSKI

MD-HR5410-01

A

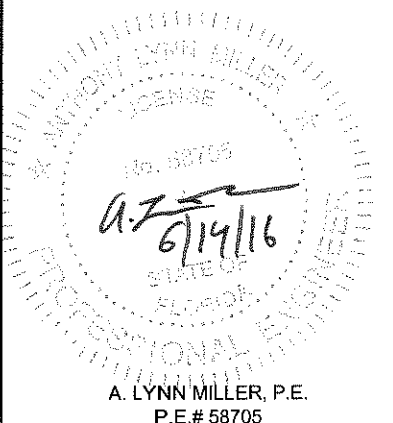


TABLE 18:

Glass Types 2 - 4		Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows																							
				24" Height		30" Height		36" Height		48" Height		54" Height		63" Height		24" Height		30" Height		36" Height		48" Height		54" Height		63" Height	
				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	Head & Sill	Jamb	Head & Sill	Jamb
Reinf. Level R3				Anchor Group A												Anchor Group C											
Window Buck Width	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+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	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+1	4	1+C3+0+C3+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	1+C3+0+C3+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+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4	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+C4+0+C4+1	4
		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+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4	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
	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+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4	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+C4+0+C4+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+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4	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+C4+0+C4+1	4
	52-1/8"	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	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
		1/4-1/2-1/4	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+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
		1/3-1/3-1/3	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
	60"	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+C3+2+C3+1	4	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+C3+1+C3+1	4
		1/4-1/2-1/4	13.398 - 15.360	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+C3+2+C3+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	4	1+C3+1+C3+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+C4+0+C4+1	4	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+C4+0+C4+1	4
	75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+4+C2+1	3	1+C3+4+C3+1	4	1+C3+4+C3+1	4	1+C3+3+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+3+C							

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

Anchor Group E	Anchor Group F
2"	3.7"

$$^{**} \text{ MIN. SASH SIZE} = \frac{\text{WINDOW WIDTH} - 60.72}{2}$$

NOTES:

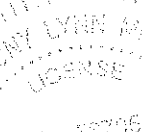
- 1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
2) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE.
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" 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.

SEE TABLE 9 FOR DESIGN PRESSURE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0714-18
Expiration Date Sept. 24, 2020
By Manuel Perez
Miami Dade Product Control

Rev 1	
Rev 2	

	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941)-480-1600		CERT. OF AUTH. #29296	ANCHOR QUANTITY TABLES	05/15/15 Date
HORIZONTAL Roller	HORIZONTAL ROLLER - NI	J ROSOWSKI By	J ROSOWSKI	J ROSOWSKI	J ROSOWSKI



ANTHONY LYNN MILLER
LICENSE
163206
A2 6/14/16
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

TABLE 19:

Glass Types 2 - 4		Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows																																			
				24" Height		30" Height		36" Height		48" Height		54" Height		63" Height		24" Height		30" Height		36" Height		48" Height		54" Height		63" Height													
				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	Head & Sill	Jamb	Head & Sill	Jamb												
Reinf. Level R4				Anchor Group A												Anchor Group C																							
Window Buck Width	35-1/4"	⅓-⅓-⅓	11.391 - 11.391	Not Allowed												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+1	4	1+C2+0+C2+1	4										
	38"	⅓-⅓-⅓	12.308 - 12.308													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	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
	45-1/8"	¼-½-¼	11.391 - 13.397													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+C4+0+C4+1	4	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+C4+0+C4+1	4
		⅓-⅓-⅓	13.398 - 14.683													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+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	47-3/4"	¼-½-¼	11.391 - 12.297													1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
		⅓-⅓-⅓	12.298 - 15.558													1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
	52-1/8"	Custom	11.391 - 12.016													1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
		¼-½-¼	12.017 - 13.397													1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
		⅓-⅓-⅓	13.398 - 17.016													1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	60"	Custom	11.391 - 13.397													1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4
		¼-½-¼	13.398 - 15.360													1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
		⅓-⅓-⅓	15.361 - 19.641													1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
	75"	Custom	11.391 - 13.397													1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+4+C3+1	3	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
		¼-½-¼	13.398 - 19.110													1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	4	1+C4+2+C4+1	4	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	4	1+C4+2+C4+1	4
		⅓-⅓-⅓	19.111 - 24.641													1+C3+0+C3+1	2	1+C4+0+C4+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C3+0+C3+1	2	1+C4+0+C4+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
	96"	Custom	17.641 - 19.397													1+C2+3+C2+1	2	1+C2+4+C2+1	2	1+C3+4+C3+1	3	1+C4+5+C4+1	4	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+4+C3+1	3	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4
¼-½-¼		19.398 - 24.360	1+C2+3+C2+1	2	1+C2+4+C2+1	2	1+C3+4+C3+1	3	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C4+4+C4+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4													
⅓-⅓-⅓		24.361 - 31.641	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4													
120"	¼-½-¼	29.641 - 32.515	2+C2+3+C2+2	2	2+C2+4+C2+2	2	2+C3+4+C3+2	3	2+C4+5+C4+2	4	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4													
	⅓-⅓-⅓	32.516 - 39.641	2+C2+3+C2+2	2	2+C2+4+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4													
140"	Custom	** - 39.641	2+C2+3+C2+2	2	2+C2+4+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4													
Window Buck Width	35-1/4"	⅓-⅓-⅓	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+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	1+C2+0+C2+1	4												
	38"	⅓-⅓-⅓	12.308 - 12.308	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	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												
	45-1/8"	¼-½-¼	11.391 - 13.397	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+C4+0+C4+1	4	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+C4+0+C4+1	4												
		⅓-⅓-⅓	13.398 - 14.683	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+C3+0+C3+1	4	1+C3+0+C3+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+C3+0+C3+1	4	1+C3+0+C3+1	4												
	47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4												
		⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4												
	52-1/8"	Custom	11.391 - 12.016	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4												
		¼-½-¼	12.017 - 13.397	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4												
		⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4												
	60"	Custom	11.391 - 13.397	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4												
		¼-½-¼	13.398 - 15.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4												
		⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4												
	75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+4+C3+1	3	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4												
		¼-½-¼	13.398 - 19.110	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	4	1+C4+2+C4+1	4	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	4	1+C4+2+C4+1	4												
		⅓-⅓-⅓	19.111 - 24.641	1+C3+0+C3+1	2	1+C4+0+C4+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C3+0+C3+1	2	1+C4+0+C4+1	2	1+C4+0+C4+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4												
	96"	Custom	17.641 - 19.397	1+C2+3+C2+1	2	1+C2+4+C2+1	2	1+C3+4+C3+1	3	1+C4+5+C4+1	4	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+4+C3+1	3	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4												
¼-½-¼		19.398 - 24.360	1+C2+3+C2+1	2	1+C2+4+C2+1	2	1+C3+4+C3+1	3	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C4+4+C4+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4													
⅓-⅓-⅓		24.361 - 31.641	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4													
120"	¼-½-¼	29.641 - 32.515	2+C2+3+C2+2	2	2+C2+4+C2+2	2	2+C3+4+C3+2	3	2+C4+5+C4+2	4	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4													
	⅓-⅓-⅓	32.516 - 39.641	2+C2+3+C2+2	2	2+C2+4+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4													
140"	Custom	** - 39.641	2+C2+3+C2+2	2	2+C2+4+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+4+C3+2	3	2+C4+4+C4+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4													

Not Allowed

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

Anchor
Group F
2.5"

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 60.72}{2}$

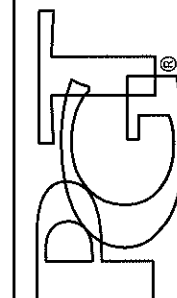
NOTES:

- 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 "1/3-1/3-1/3" 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.

SEE TABLE 12 FOR DESIGN PRESSURE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714.18
Expiration Date 05/15/2020
By *Manuel Perez*
Miami Dade Product Control

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
(941)-480-1600



ANCHOR QUANTITY TABLES

HORIZONTAL ROLLER - NI

HR-5410 NTS 13 OF 15

J ROSOWSKI

MD-HR5410-01 A

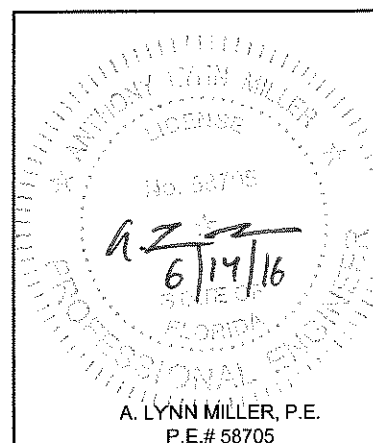
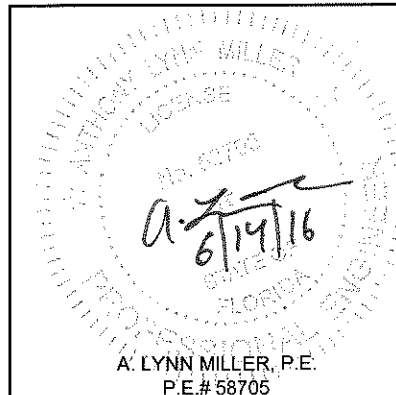
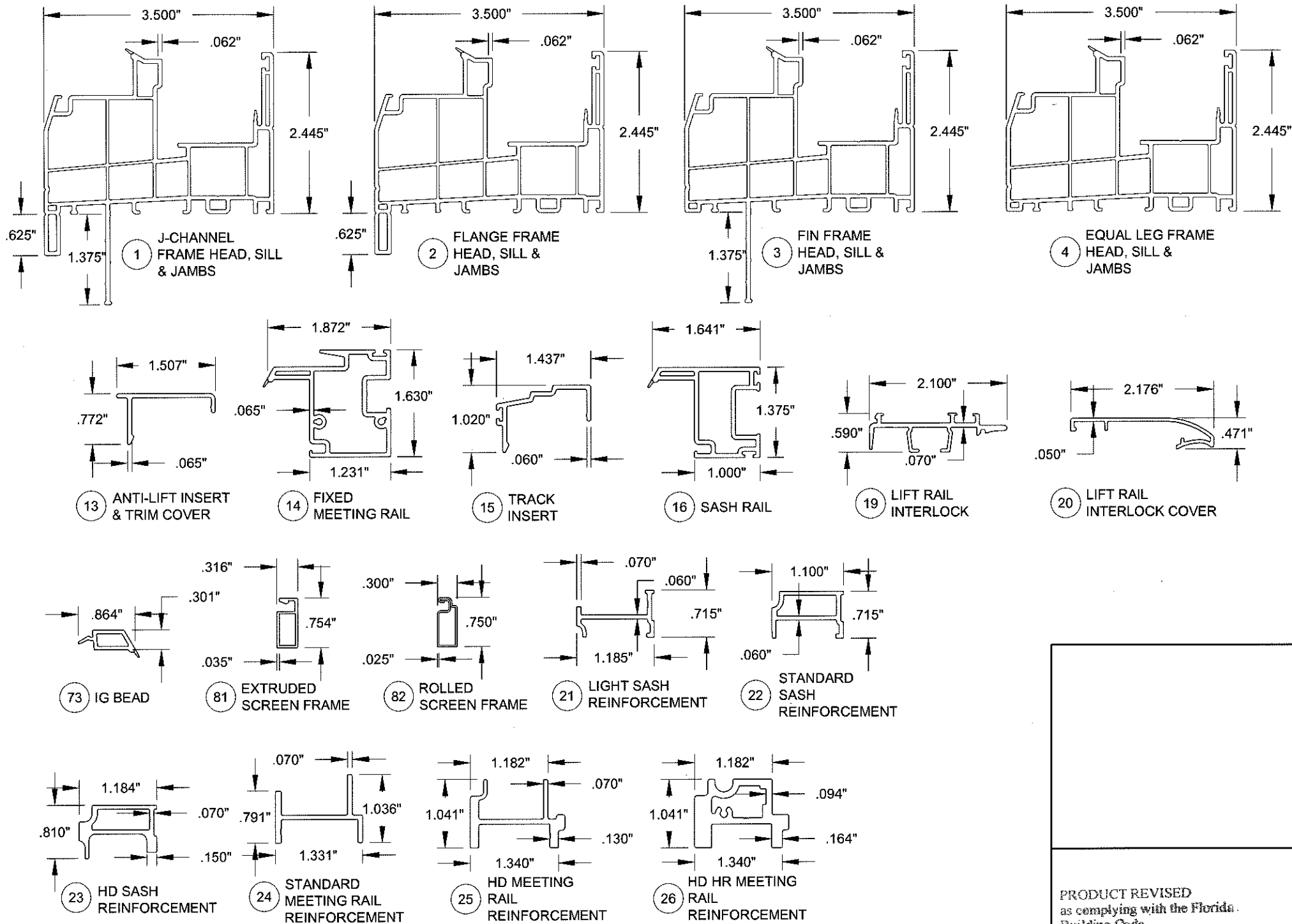


TABLE 20:

Bill of Material			
#	Part #	Description	Material
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 Al
16	620129	Sash Rail (Sides, Top & Bottom)	PVC
19	620156	Pull Rail Interlock	6063 T6 Al
20	620144	Pull Rail Interlock Cover	PVC
21	620150	Light Sash Reinforcement	6063 T6 Al
22	620151	Standard Sash Reinforcement	6063 T6 Al
23	620152	HD Sash Reinforcement	6063 T6 Al
24	620153	Standard Meeting Rail Reinforcement	6005 T5 Al
25	620154	HD Meeting Rail Reinforcement	6005 T5 Al
26	620155	H.D. Horiz. Roller Meeting Rail Reinforcement	6005 T5 Al
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 Al
33	720210	Weep Hole Cover	PVC
34	720187	Installation Screw Hole Plug	PVC
37	720197	Auto Lock	C Steel
38	720199	Sweep Lock	Cast Zinc
39	720196	Auto Lock Cover Assembly	Cast Zinc
40		#6 x 1-1/8" Ph. FH SDS (Auto and Sweep Lock Screw)	SS
41	720200	Auto and Sweep Lock Keeper	Cast Zinc
42	76X34PPA	#6 x 3/4" PH. PH SDS (Keeper Screw)	SS
43	7612FPTX	#6 x 1/2" FPH TEK	SS
44		Leadstile Top Corner Key	Nylon
45		Leadstile Bottom Corner Key	Nylon
46		Lockstile Top Corner Key	Nylon
47		Lockstile Bottom Corner Key	Nylon
48	720204	Wheel	Nylon
73	620136	I.G. Bead	PVC
74		Backbedding, GE 7700 or Dow 791	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		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	7CASP	Tension Spring	SS
86	61816C48	Screen Cloth	Fiberglass
87	61635/61614	.140" Screen Spline (Machine/Hand Rolled)	Vinyl

NOTES:

- 1) ITEMS # 5-12, 17, 18, 27, 35, 36 & 49-72 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.
 2) PVC BY ROYAL WINDOW AND DOOR PROFILES, LTD., TO BE LABELED FOR AAMA EXTRUDER CODE.



1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 P.O. BOX 1529
 NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: WINDOW EXTRUSIONS & BOM		Drawn By: J ROSOWSKI
Title: HORIZONTAL ROLLER - NI		Date: 05/15/15
Series/Model: HR-5410	Scale: NTS	Sheet: 14 OF 15
Drawing No. MD-HR5410-01		Rev: A

PRODUCT REVISED
 as complying with the Florida.
 Building Code
 Acceptance No. 16-0714.18
 Expiration Date Sept. 24, 2020
 By *Manuel Perez*
 Miami Dade Product Control

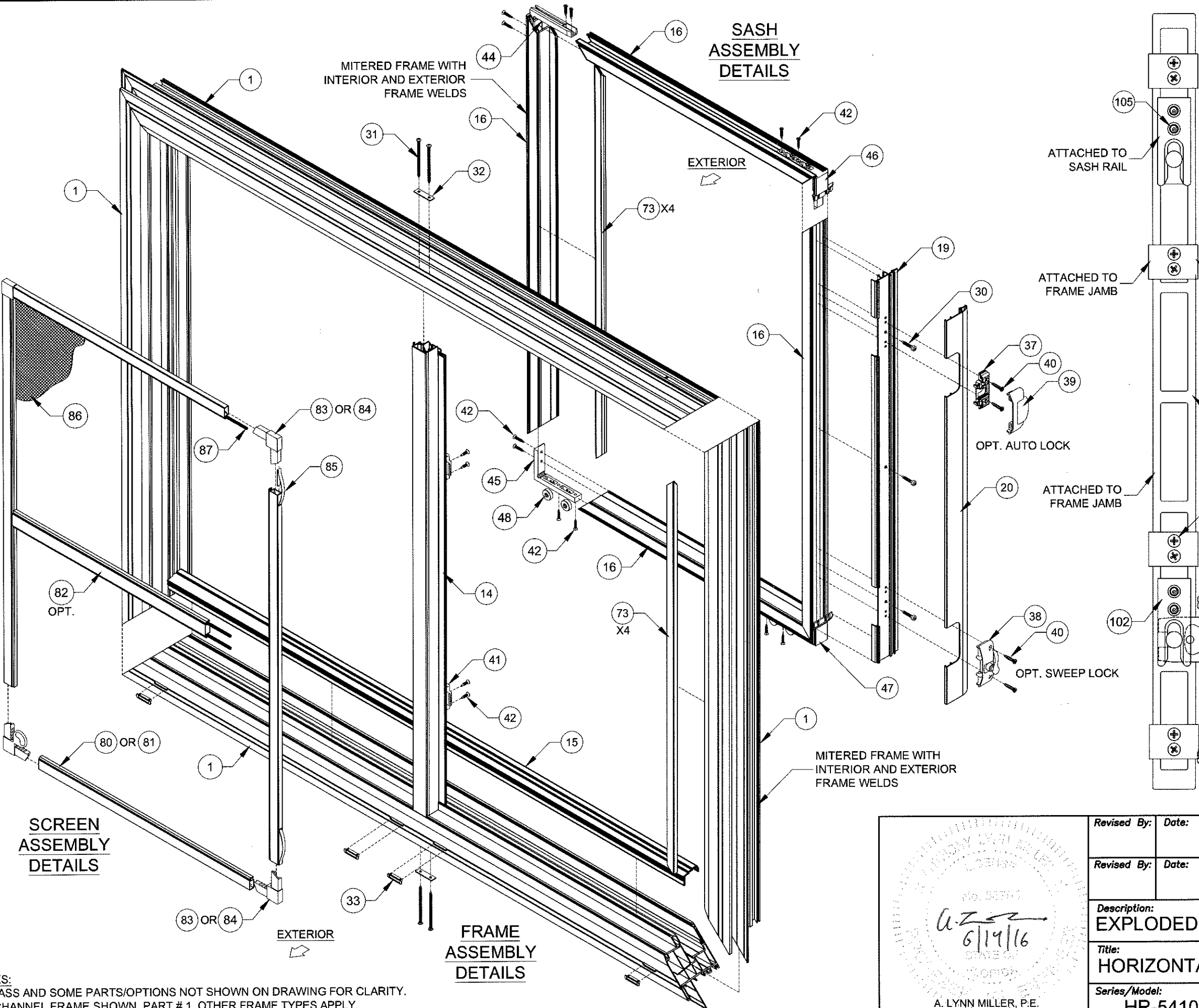
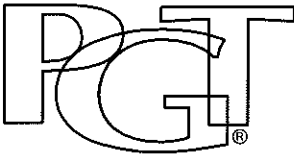


TABLE 21:

Egress Lock Bill of Material			
#	Part #	Description	Material
100	7MC7024	Multi-Point Lock Operator	Cast Zinc
101	73340	Operator mounting Plate	Steel
102	72015	Multipoint Lock Keeper	Aluminum
103	720214	Multipoint Lock Guide	Nylon
104	220217-221	Tie Bar (Length Varies)	Stainless Steel
105	71024X12HFX	#10 x 1/2" HH MS	Stainless Steel
106	78X1FPAX	#8 x 1" Ph. FH SMS	Stainless Steel
107	78X75FPTX	#8 x 3/4" Ph. FH SDS	Stainless Steel

EGRESS LOCK
DETAILS
(NOT TO SCALE)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714-18
Expiration Date Sept 24, 2020
By *Manuel Perez*
Miami Dade Product Control



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CERT. OF AUTH. #29296

- NOTES:
- 1) GLASS AND SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
 - 2) J-CHANNEL FRAME SHOWN, PART # 1. OTHER FRAME TYPES APPLY.
 - 3) FOR REINFORCEMENT TYPES, SEE DETAILS ON SHEETS 6-8.

Professional Engineer Seal
A. LYNN MILLER, P.E.
P.E.# 58705
6/19/16

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: EXPLODED WINDOW VIEW		Drawn By: J ROSOWSKI
Title: HORIZONTAL ROLLER - NI		Date: 05/15/15
Series/Model: HR-5410	Scale: NTS	Sheet: 15 OF 15
Drawing No. MD-HR5410-01		Rev: A