



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-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 B dated 03/27/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

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

This NOA revises NOA# 16-0714.17 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P.E.**

Miami Dade County Department of Regulatory And Economic Resources - Job Copy

3419015717
NOA for Windows Horizontal Roller PGT 17041108.pdf



NOA No. 17-0411.08
Expiration Date: September 24, 2020
Approval Date: August 31, 2017
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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® 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.
(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)

Miami Dade County Department of Regulatory And Economic Resources - Job Copy
3419015717 - 11/14/2019 12:25:30 PM
NOA for Windows Horizontal Roller PGT 17041108.pdf


Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0411.08
Expiration Date: September 24, 2020
Approval Date: August 31, 2017

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-5th 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. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear, and Color PVB Glass Interlayers**" dated 01/19/17, expiring on 07/08/19.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.
3. Notice of Acceptance No. **16-0712.03** issued to **ENERGI Fenestration Solutions USA** for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 08/10/17, expiring on 02/28/18.
4. Notice of Acceptance 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**" dated 09/15/16, expiring on 04/16/20.
5. Notice of Acceptance No. **16-0712.05** issued to **ENERGI Fenestration Solutions USA, Inc.** for their "**Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**" dated 09/15/16, expiring on 04/16/20.

Miami Dade County Department of Regulatory And Economic Resources - Job Copy

3419015717 - 11/14/2019 12:25:30 PM

NCA for Windows Horizontal Roller PGT 17041108.pdf


Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0411.08

Expiration Date: September 24, 2020
Approval Date: August 31, 2017

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

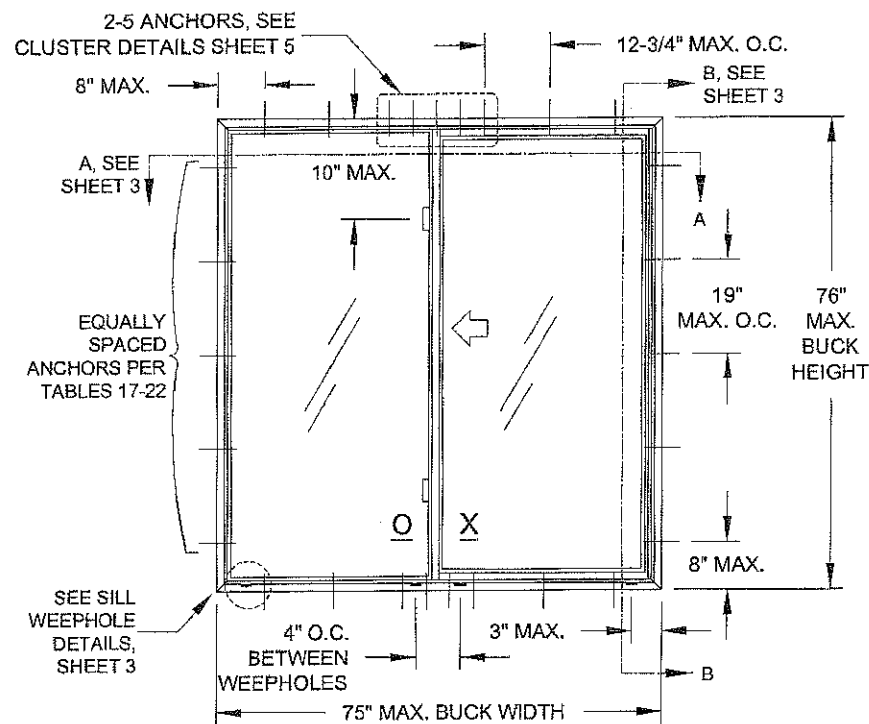
1. Statement letter of conformance, complying with **FBC-5th Edition (2014)** and **FBC-6th Edition (2017)**, dated 08/02/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated 03/31/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. 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)
4. 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 NOA No.15-0903.10)

E. OTHERS

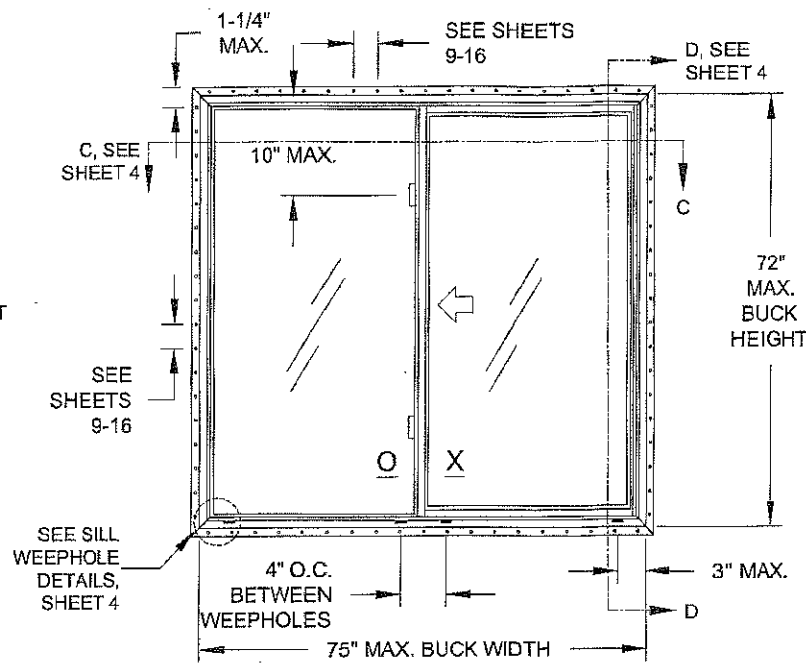
1. Notice of Acceptance No. **16-0714.17**, issued to PGT Industries, Inc. for their Series "HR-5510" PVC Horizontal Rolling Window - L.M.I., approved on 09/01/17 and expiring on 09/24/20.



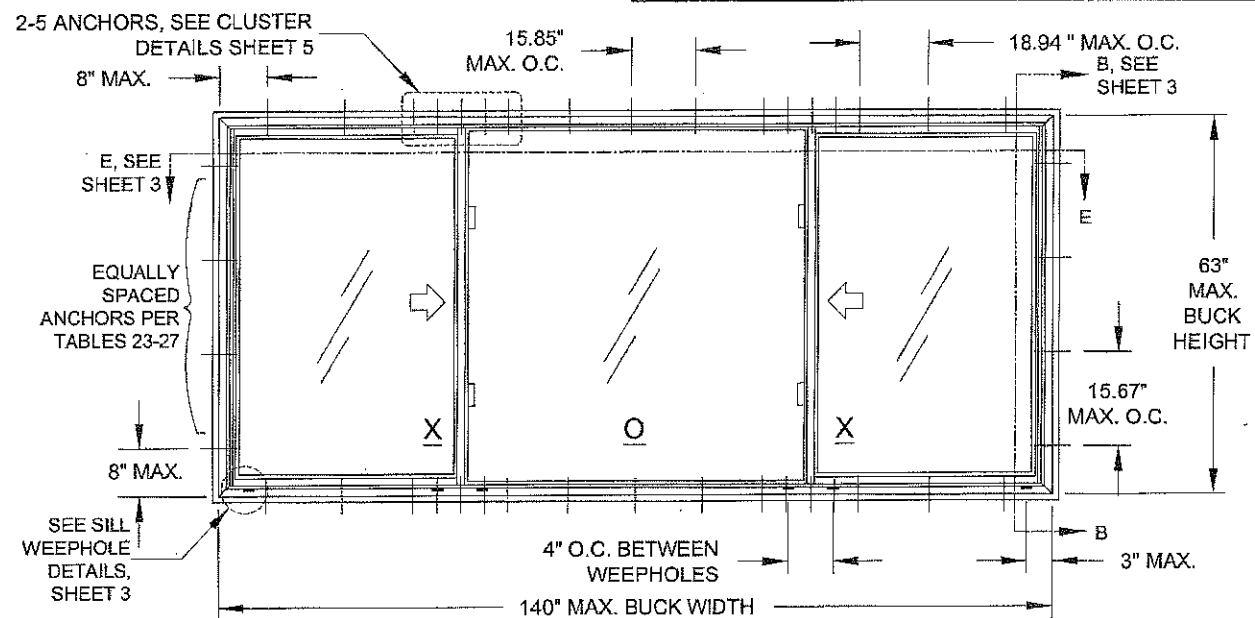
Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0411.08
Expiration Date: September 24, 2020
Approval Date: August 31, 2017



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 XOX CONFIGURATION

CODES / STANDARDS USED:

- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISI 360-10

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 C80 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 & 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; ELCO CRETEFLEX NOA; ELCO 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, XO), 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 20-23, AND THAT ALL MIN. REQUIREMENTS FROM THIS SHEET SET ARE MET.
- 5) INSTALL AS PER SHEETS 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.

GENERAL NOTES.....	1
ELEVATIONS.....	1
FRAME, GLASS & ANCHOR	
OPTIONS.....	2
INSTALLATION, FLANGE &	
EQUAL LEG/BOX.....	3
INSTALLATION, INTEGRAL FIN	
& J-CHANNEL.....	4
GLAZING DETAILS.....	5
DESIGN PRESSURES.....	6-8
ANCHOR QUANTITIES.....	9-16
EXTRUSION PROFILES & BOM.....	17
ASSEMBLY.....	18

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0411.08**

Expiration Date **09/24/2020**

By 
Miami-Dade Product Control

Drawn By:
J ROSOWSKI

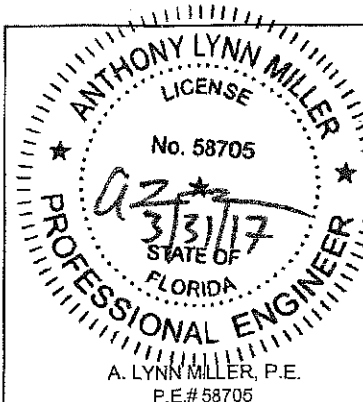
Date:
05/15/15

Revised By:	Date:	Revision:
JR	03/27/17	UPDATED TO FBC 2017. ADDED NOTE TO ANCHOR QTY. TBLS.
Revised By:	Date:	Revision:

Description:
GENERAL NOTES & ELEVATION

Title:
HORIZONTAL ROLLER - LM

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	1 OF 18	MD-HR5510-01	B



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

COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED

CERT. OF AUTH. #29296

Miami-Dade County Department of Regulatory and Economic Resources, Job Code
3419015712-11/3/2019 12:25:30 PM
NOA for Windows Horizontal Roller PGT 17-0411.08.pdf

TABLE 1: ALLOWABLE GLASS TYPES

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

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.)	Ungrouped 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"
	1/4" 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	Ungrouped CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.35 ksi)	1"	1-3/4"
		1/4" steel Cretelflex	1"	1-3/4"
	1/4" steel Cretelflex	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
D	1/4" steel Cretelflex	Ungrouped CMU, (ASTM C-90)	2-1/2"	1-1/4"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
	1/4" steel Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Grouted CMU, (ASTM C-90)	2"	2"
		Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

"UNGROUPED CMU" VALUES MAY BE USED FOR GROUDED 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"
		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 (steel, 18-8 S.S. or 410 S.S.)	Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	1/2" SMS (steel, 18-8 S.S. or 410 S.S.)	Aluminum, 6063-T5*	3/8"	0.063"
		Steel, A36*	3/8"	0.050"
		Concrete (min. 2.85 ksi)	1"	1-3/8"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

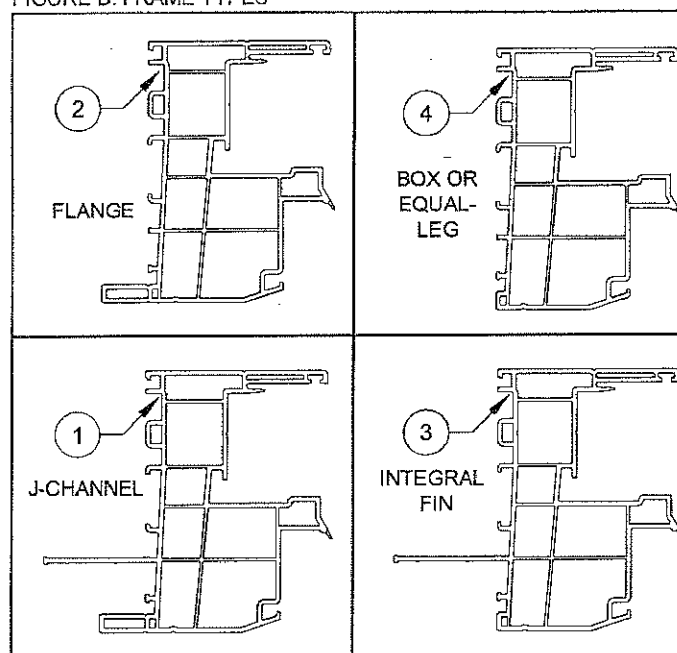
"A" = ANNEALED
"H" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

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

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 5into Metal - sheet 4, option 8
		Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 4, option 6into Metal - sheet 4, option 7
Flange (#2)	1 - 4	Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 3, option 1into Concrete/CMU - sheet 3, option 2through 1X Buckstrip into Concrete/CMU - sheet 3, option 3into Metal - sheet 3, option 4
		Through the integral fin.....	into 2X Wood Frame/Buckstrip - sheet 4, option 5into Metal - sheet 4, option 8
Integral Fin (#3)	1 - 4	Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 4, option 6into Metal - sheet 4, option 7
		Through the integral fin.....	into 2X Wood Frame/Buckstrip - sheet 3, option 1into Concrete/CMU - sheet 3, option 2through 1X Buckstrip into Concrete/CMU - sheet 3, option 3into Metal - sheet 3, option 4
Box / Equal-Leg (#4)	1 - 4	Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 3, option 1into Concrete/CMU - sheet 3, option 2through 1X Buckstrip into Concrete/CMU - sheet 3, option 3into Metal - sheet 3, option 4
		Through the integral fin.....	into 2X Wood Frame/Buckstrip - sheet 4, option 5into Metal - sheet 4, option 8

FIGURE B: FRAME TYPES



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **17-0411.08**

Expiration Date **09/24/2020**

By **Miami-Dade Product Control**

Drawn By: **J ROSOWSKI**

Date: **05/15/15**

Revised By: **JR** Date: **03/27/17** Revision: **NO CHANGES THIS SHEET.**

Revised By: _____ Date: _____ Revision: _____

Description: **GLASS/ANCHORS/FRAME OPTIONS**

Title: **HORIZONTAL ROLLER - LM**

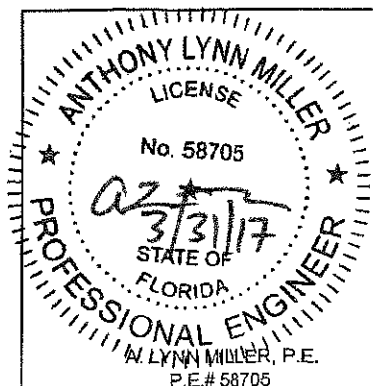
Series/Model: **HR-5510**

Scale: **NTS**

Sheet: **2 OF 18**

Drawing No. **MD-HR5510-01**

Rev: **B**



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(841)-480-1600

COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED

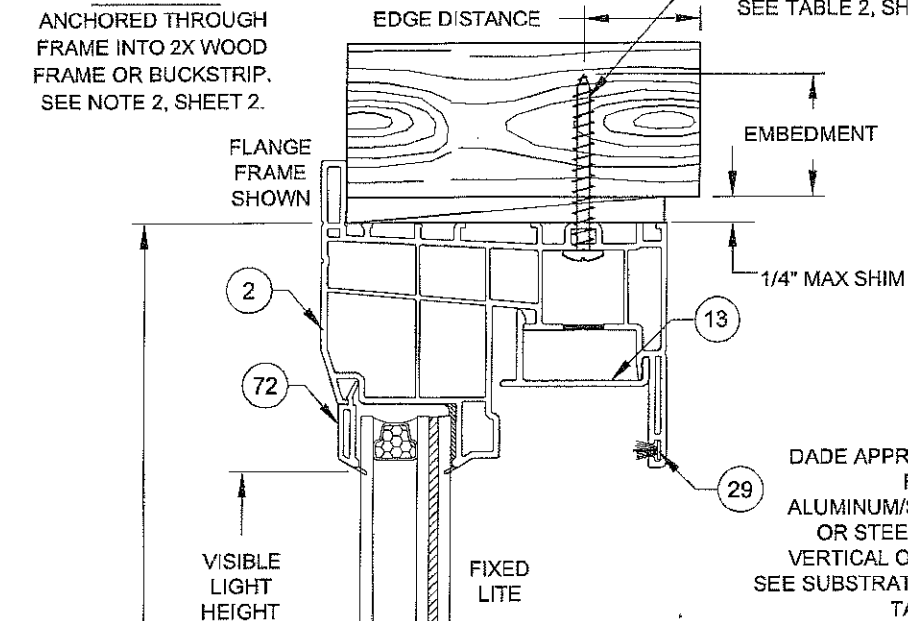
CERT. OF AUTH. #29296

Miami-Dade County Department of Regulatory and Economic Resources - Building Code
3419015717 - 11/14/2019 12:25:30 PM
NCA for Windows Horizontal Roller PGT 170411.08.pdf

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 4

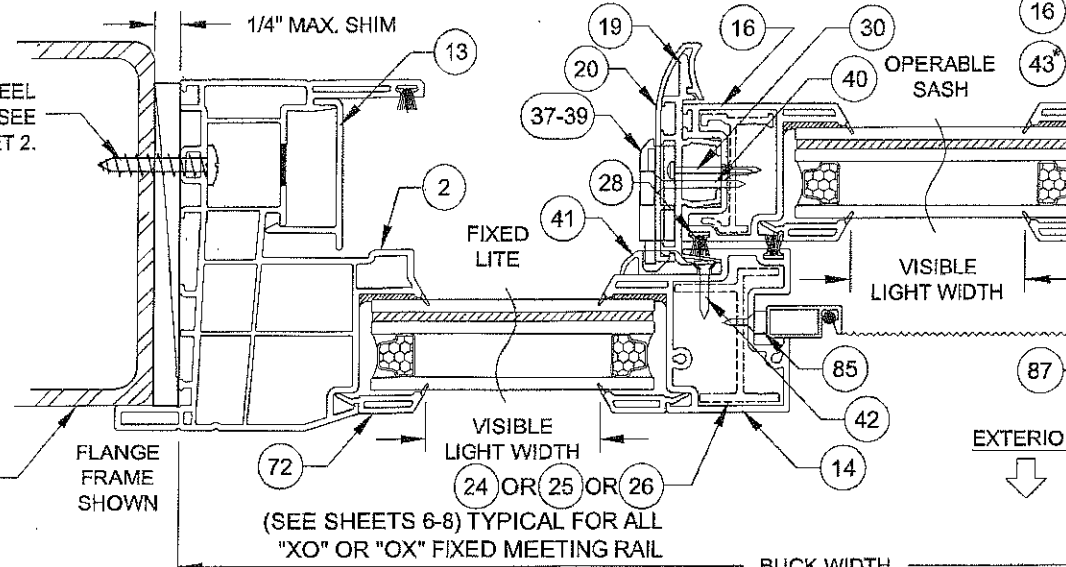
ANCHORED THROUGH FRAME INTO METAL

SEE INSTALLATION NOTES SHEET 2

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

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

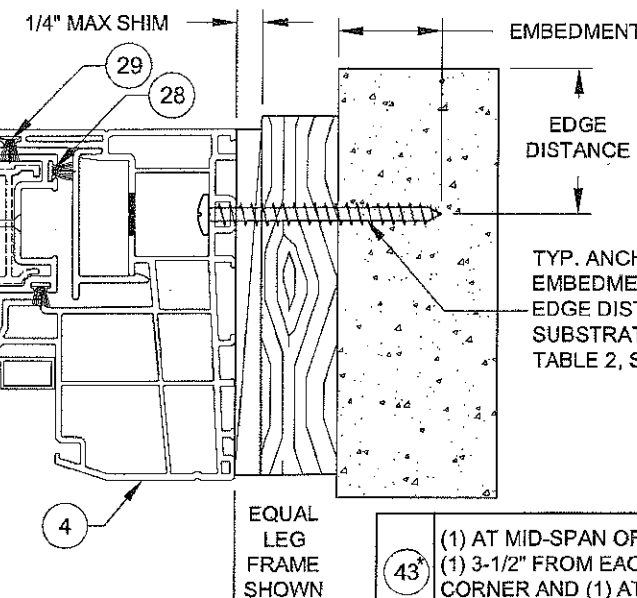
DADE APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE 2, SHEET 2



INSTALLATION OPTION 3

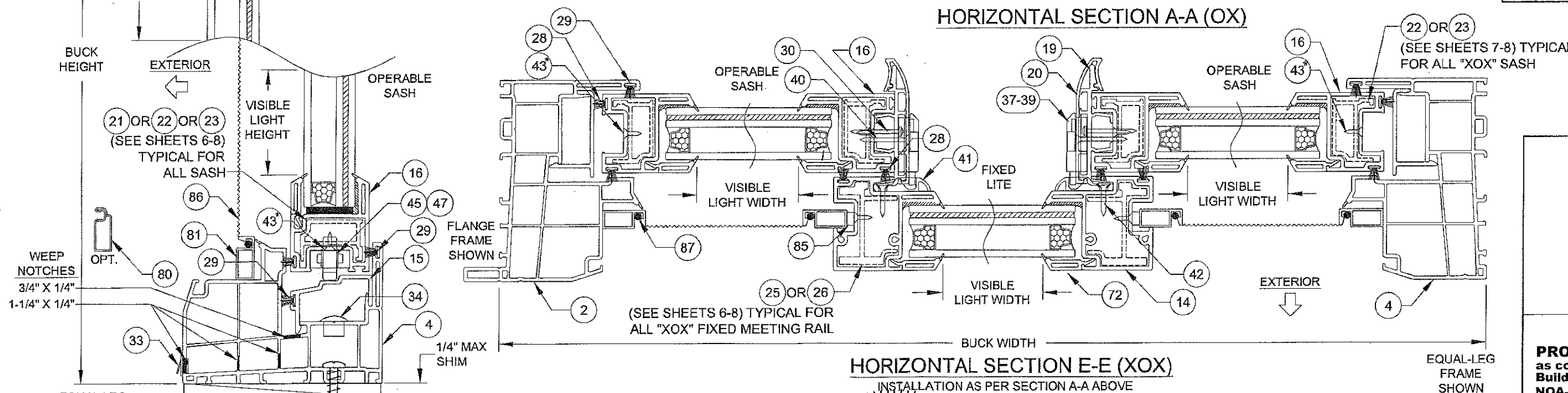
ANCHORED THROUGH FRAME AND 1X BUCKSTRIP INTO CONCRETE/CMU. SEE NOTE 2, SHEET 2.

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



(1) AT MID-SPAN OF INTERLOCK
(1) 3-1/2\"/>

HORIZONTAL SECTION A-A (OX)



HORIZONTAL SECTION E-E (XOX)

INSTALLATION AS PER SECTION A-A ABOVE

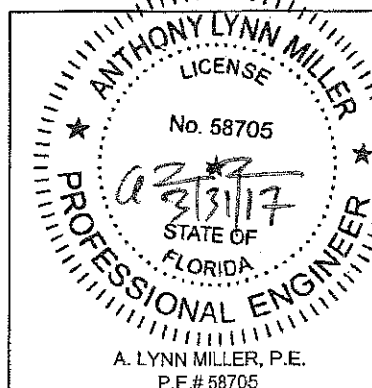
INSTALLATION OPTION 2

ANCHORED THROUGH FRAME DIRECTLY INTO CONCRETE/CMU.



VERTICAL SECTION B-B

VISIBLE LIGHT FORMULAS (EQUAL-LITE, XO & OX)
WIDTH: BUCK WIDTH / 2 - 4-1/4\"/>



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600
COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
JR	03/27/17	NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:

Description: FLANGE & EQUAL-LEG/BOX FRAMES

Title: HORIZONTAL ROLLER - LM

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	3 OF 18	MD-HR5510-01	B

PRODUCT REVISED as complying with the Florida Building Code
NOA-No. 17-0411.08

Expiration Date 09/24/2020

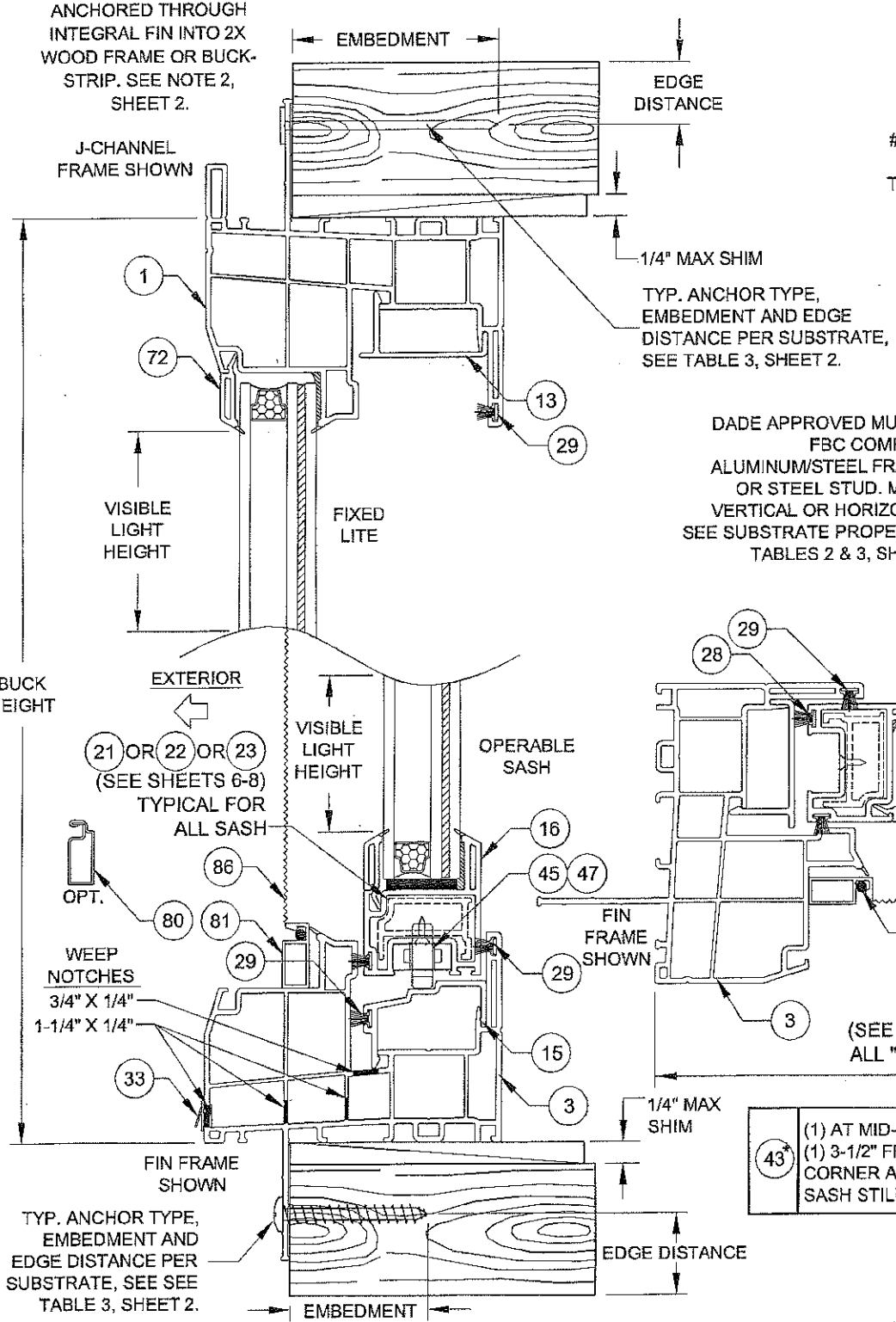
By Miami-Dade Product Control

Drawn By: J ROSOWSKI

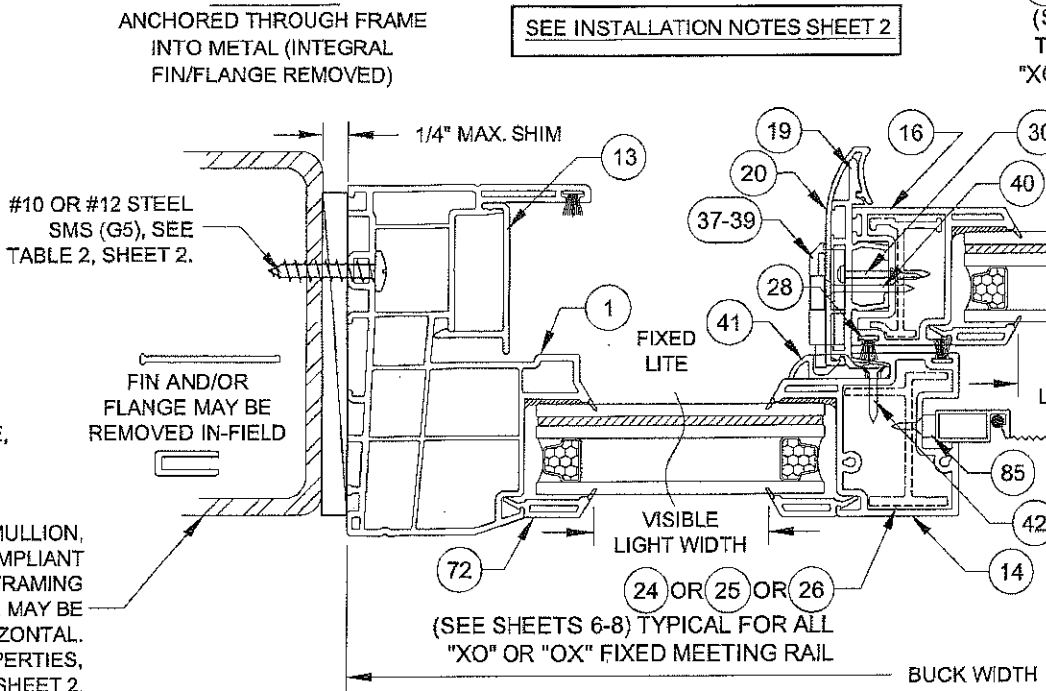
Date: 05/15/15

INSTALLATION DETAILS FOR FIN AND J-CHANNEL FRAMES

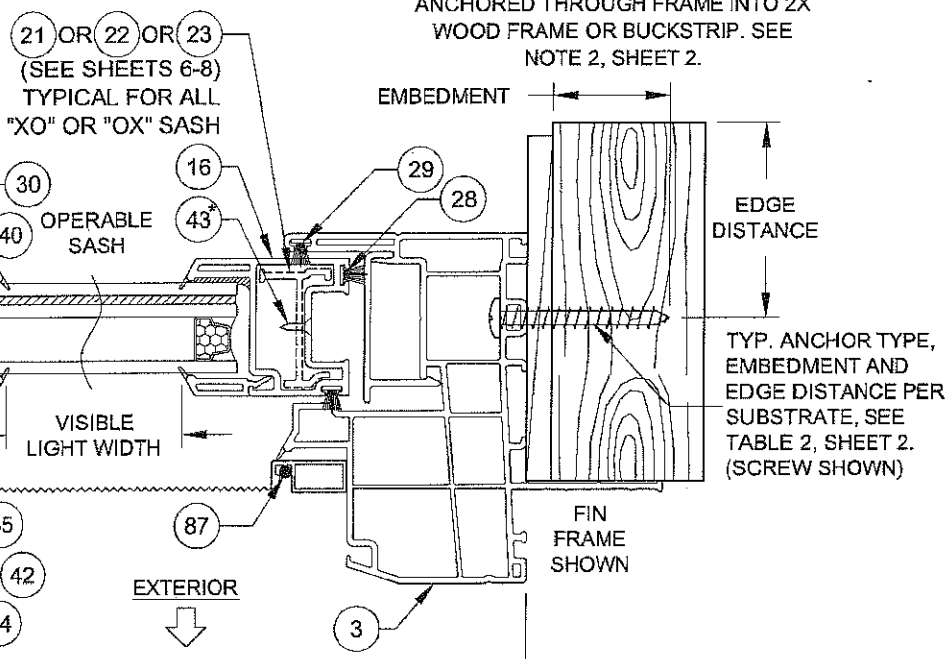
INSTALLATION OPTION 5



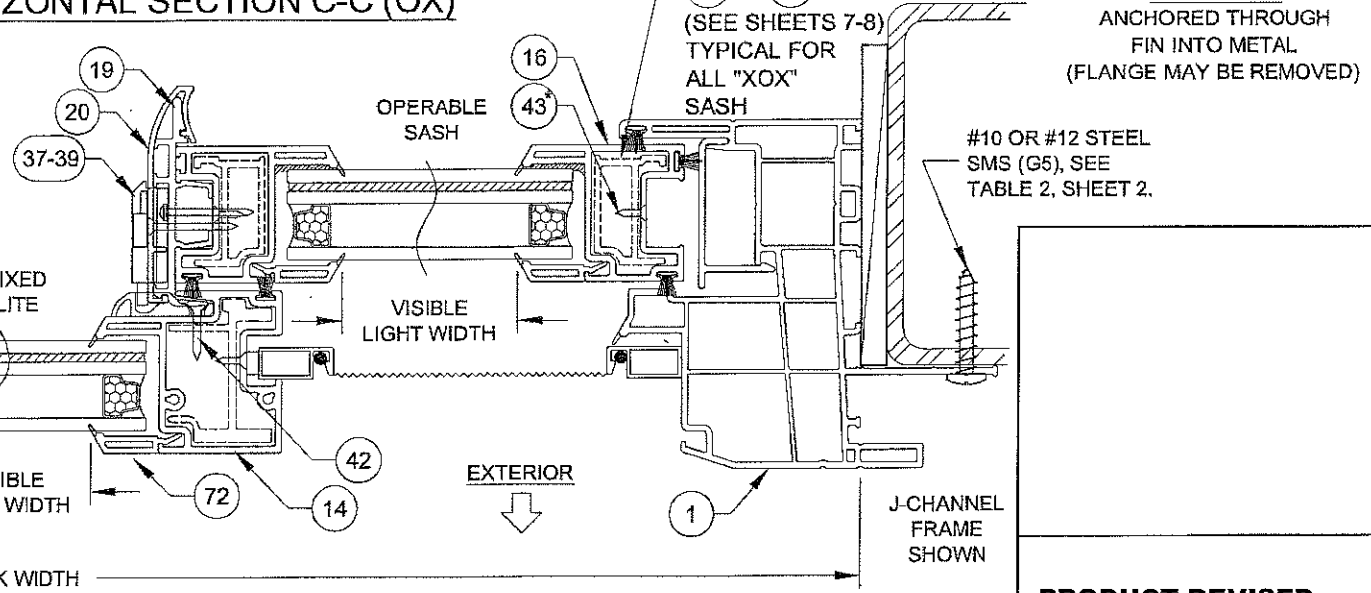
INSTALLATION OPTION 7



INSTALLATION OPTION 6



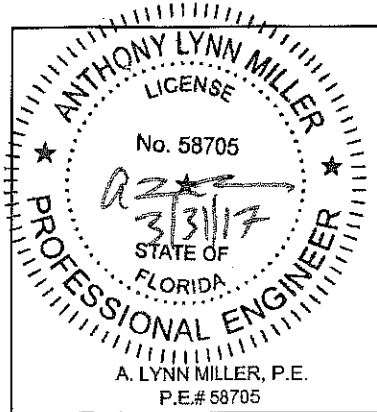
INSTALLATION OPTION 8



3419015712-10742019-12-30 PM
NCA for Windows Horizontal Roller FGT 17041108.pdf

VISIBLE LIGHT FORMULAS
(EQUAL-LITE, XO & OX)
WIDTH: BUCK WIDTH / 2 - 4-1/4"
HEIGHT: BUCK HEIGHT - 7-1/4"

HORIZONTAL SECTION C-C (XOX)



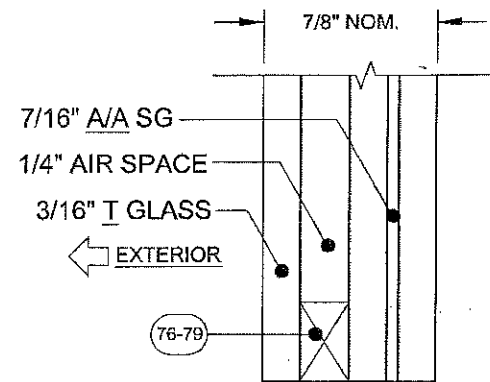
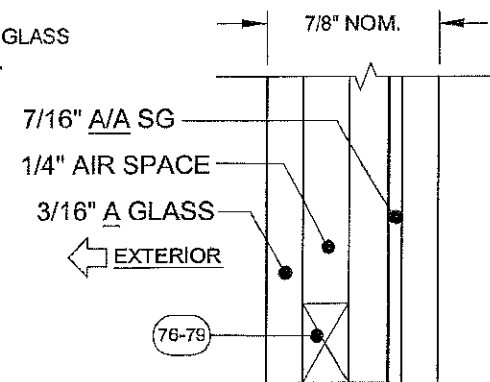
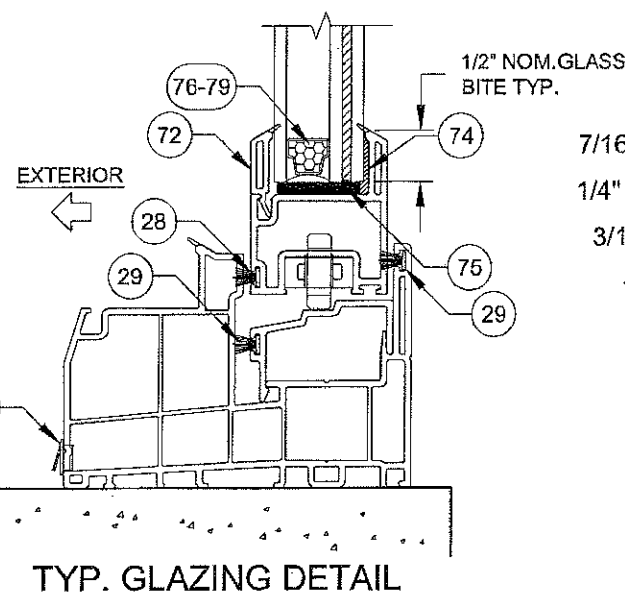
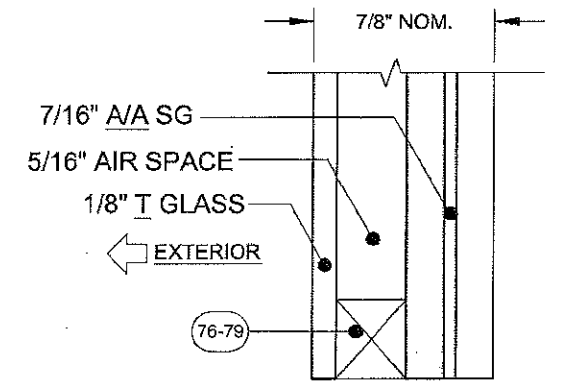
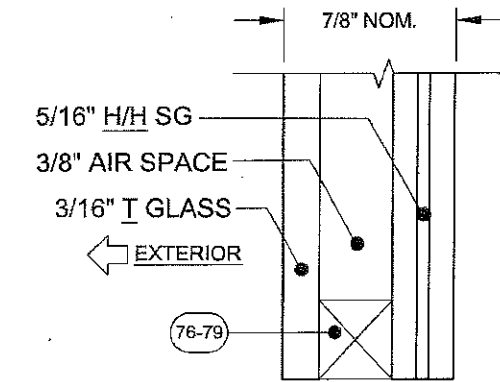
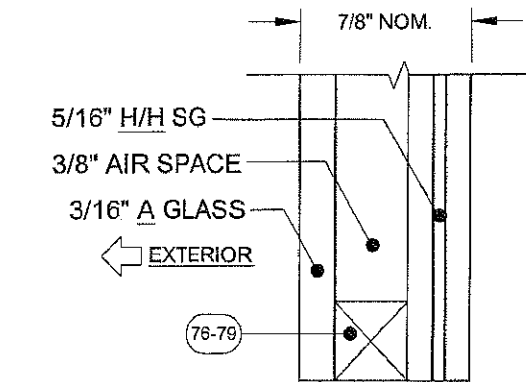
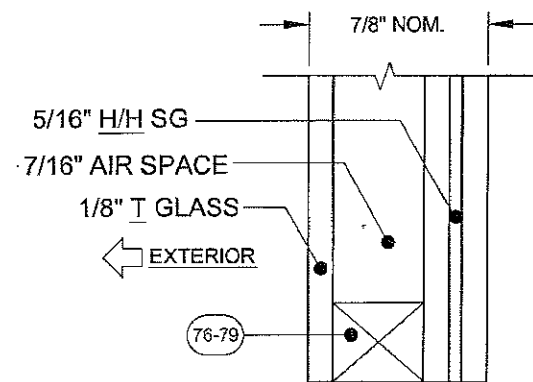
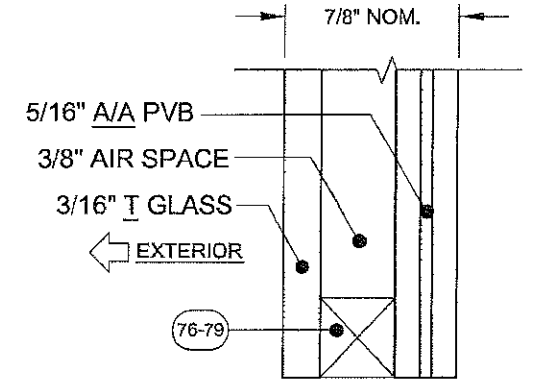
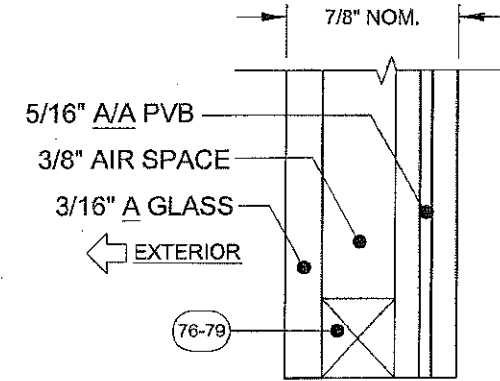
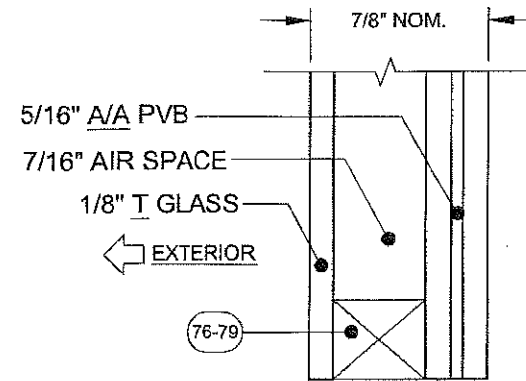
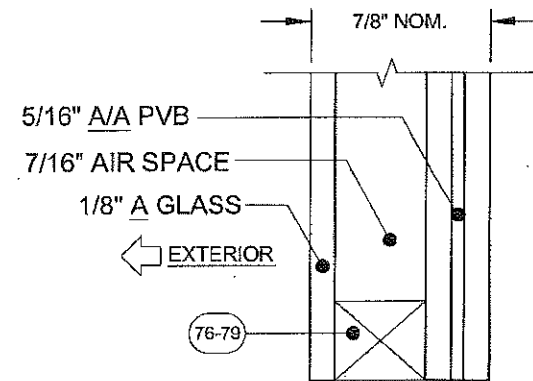
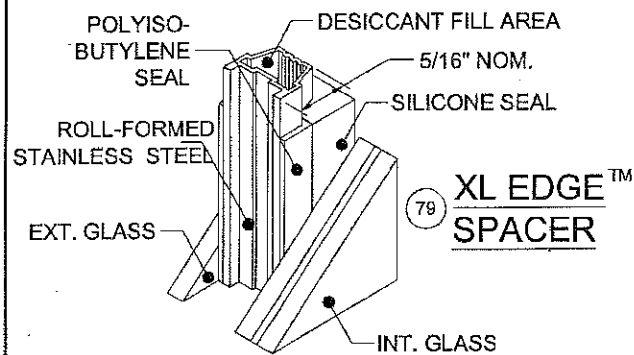
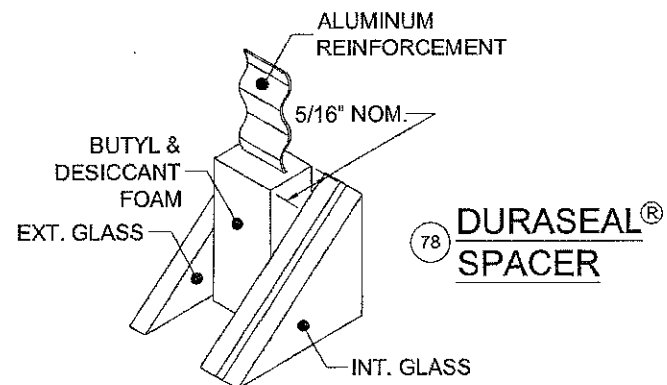
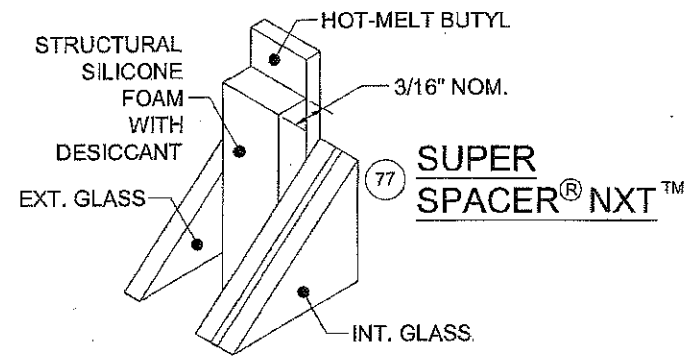
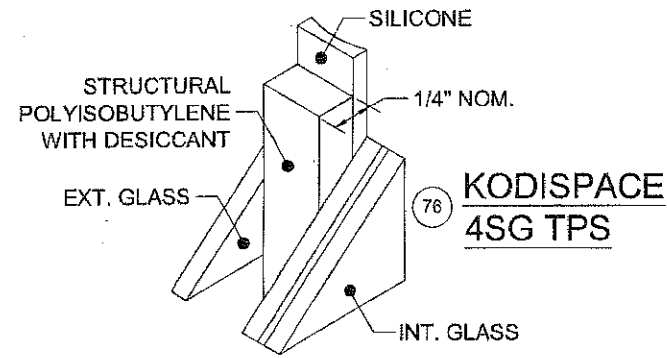
PGT
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600
COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED
CERT. OF AUTH. #29296

Revised By: JR	Date: 03/27/17	Revision: NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:
Description: J-CHANNEL & INTEGRAL FIN FRAMES		
Title: HORIZONTAL ROLLER - LM		
Series/Model: HR-5510		
Scale: NTS		
Sheet: 4 OF 18		
Drawing No. MD-HR5510-01		
Rev: B		

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By Miami-Dade Product Control

Drawn By: J ROSOWSKI

Date: 05/15/15



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

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0411.08**

Expiration Date **09/24/2020**

By **J ROSOWSKI**
Miami-Dade Product Control

Drawn By:
J ROSOWSKI

Revised By: **JR** Date: **03/27/17** Revision: NO CHANGES THIS SHEET.

Revised By: Date: Revision:

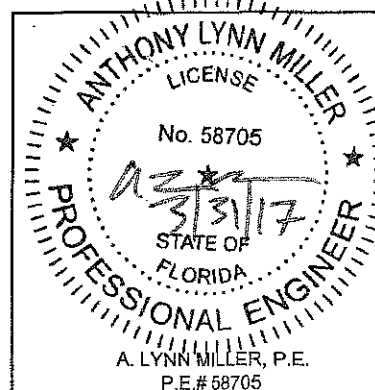
Description:
GLAZING DETAILS

Title:
HORIZONTAL ROLLER WINDOW - LM

Series/Model: **HR-5510** Scale: **NTS** Sheet: **5 OF 18**

Drawing No. **MD-HR5510-01**

Rev: **B**



PGT
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED
CERT. OF AUTH. #29296

"A" = ANNEALED
"H" = HEAT STRENGTHENED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

FOR LAMINATED GLAZING COMPONENTS, SEE TABLE 1,
SHEET 2.

Miami-Dade County Department of Regulatory and Economic Resources - Job Copy
3419015717-11/14/2019 12:25:30 PM
NCA for Window Hardware Rollers PGT 17041108.pdf
Part Description Material
76 Kommerling 4SG TPS Spacer System See this
77 Quanex Super Spacer NXT with Hot Melt Butyl Sheet for
78 Duraseal Spacer
79 Cardinal XL Edge Spacer
REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

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 #	Sheet #	Table #	Sheet #
XO or OX	75"	54"	5 - 8	1	6	6	17	9
		54"		2	7	6	18	9
		63"		3	8	7	19	10
		63"		4	11	8	21	11
	75"	72"	6 - 8	4	10	8	20	10
		76"		4	12	8	22	11
		76"		4	12	8	22	11
		76"		4	12	8	22	11
XOX	120"	63"	5 - 8	3	9	7	23	12
			5 & 6	4	13	8	24	13
			7 & 8	4	14	8	25	14
	140"	63"	10 - 12	4	15	8	26	15
			14 - 16	4	16	8	27	16
			14 - 16	4	16	8	27	16

TABLE 6:

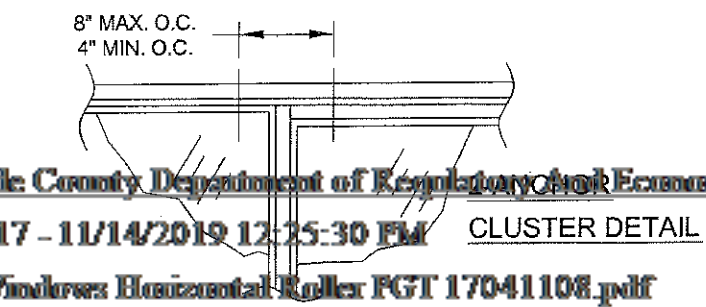
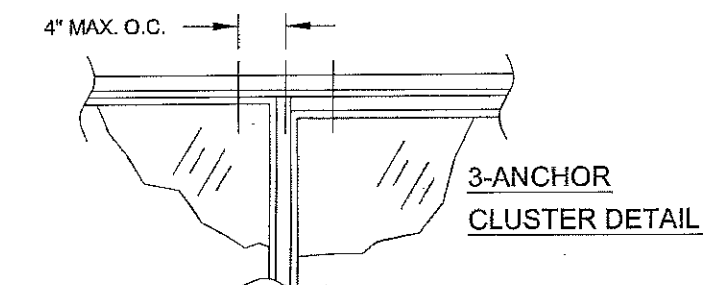
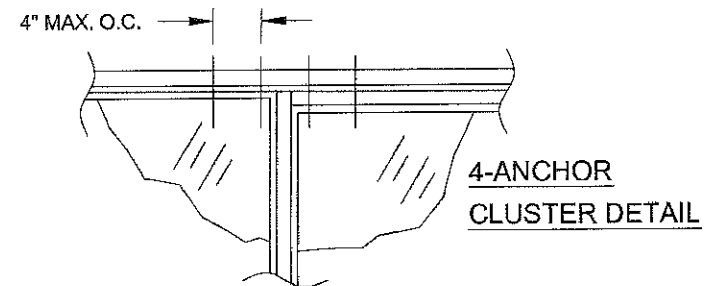
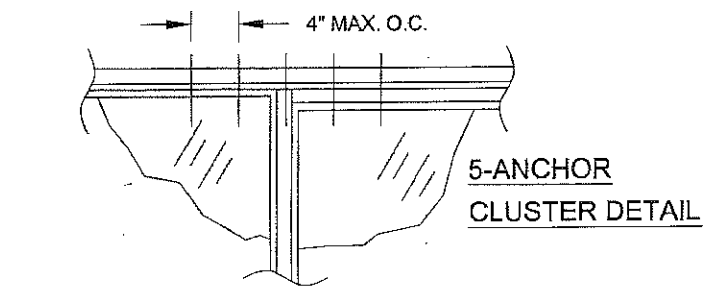
Glass Types 5 - 8	Design Pressure (lbs/ft ²) for XO or OX Windows
Reinf. Level R1	All Buck Heights up to 54"
All Buck Widths up to 75"	+50 / -50

SEE TABLE 17 FOR ANCHORAGE

TABLE 7:

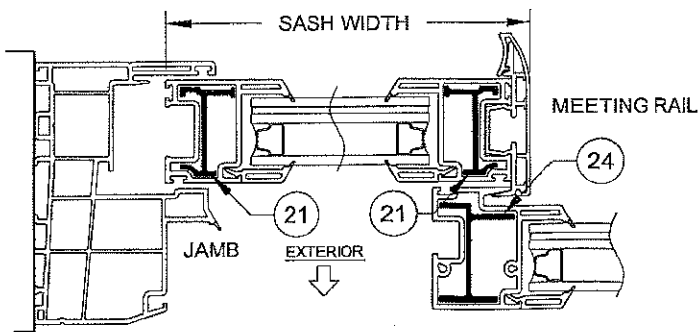
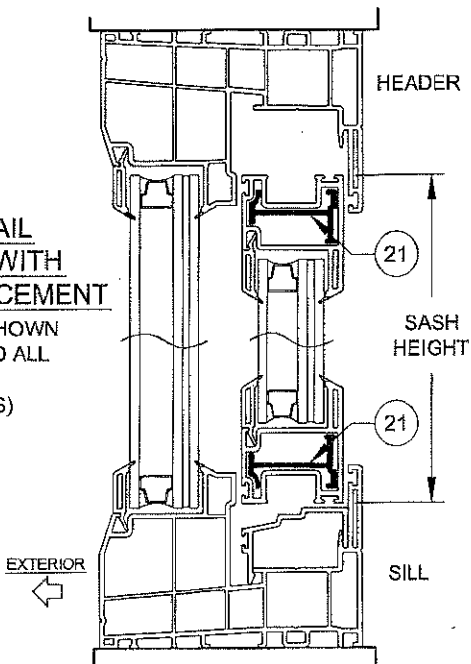
Glass Types 5 - 8	Design Pressure (lbs/ft ²) for XO or OX Windows
Reinf. Level R2	All Buck Heights up to 54"
All Buck Widths up to 75"	+65 / -70

SEE TABLE 18 FOR ANCHORAGE



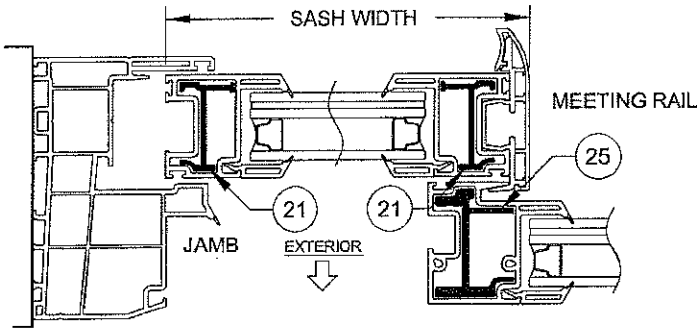
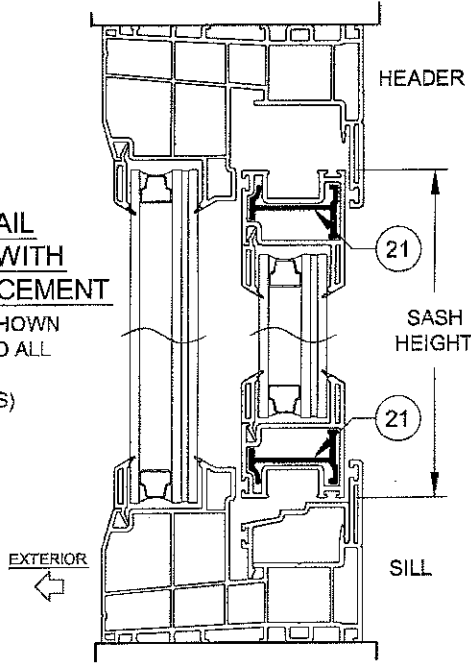
SECTION DETAIL FOR WINDOWS WITH LEVEL R1 REINFORCEMENT

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



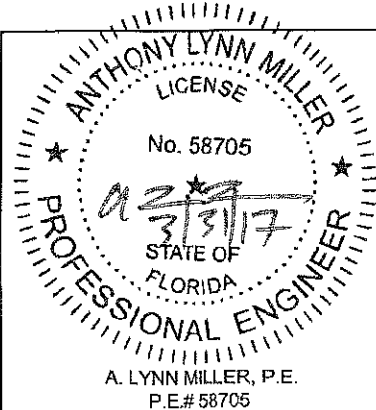
SECTION DETAIL FOR WINDOWS WITH LEVEL R2 REINFORCEMENT

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



NOTES:

- 1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
- 2) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (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" AND 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.



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
JR	03/27/17	CORRECTED TABLE 5.
Revised By:	Date:	Revision:

Description: DESIGN PRESSURE TABLES

Title: HORIZONTAL ROLLER - LM

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	6 OF 18	MD-HR5510-01	B

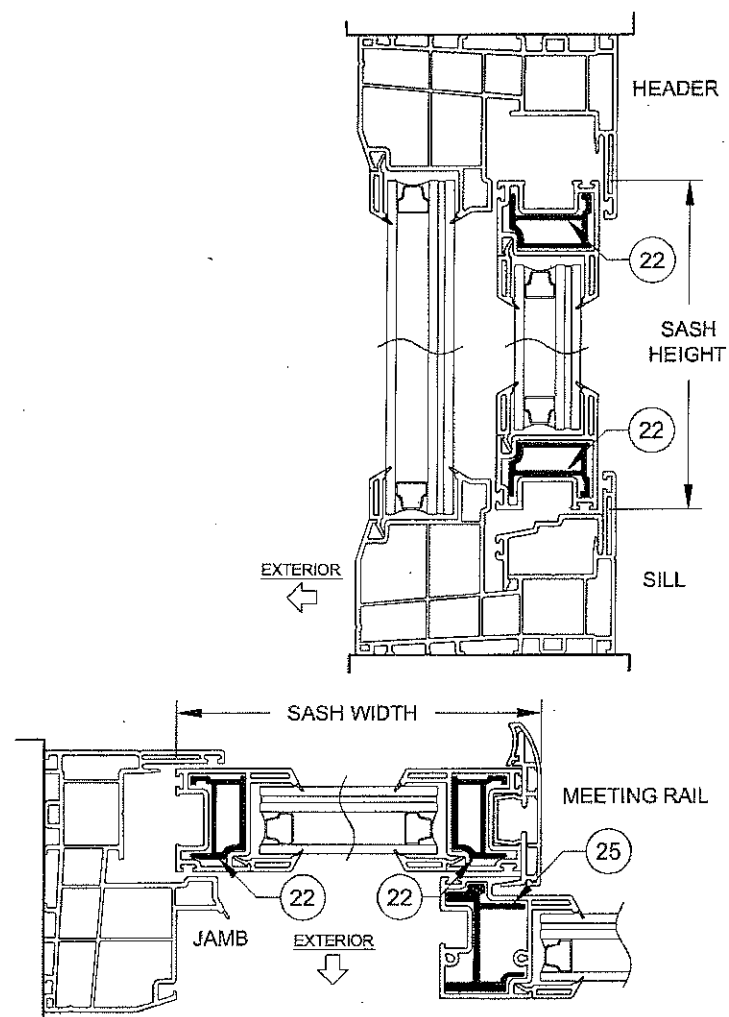
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 17-0411.08

Expiration Date 09/24/2020

By Miami-Dade Product Control

Drawn By: J ROSOWSKI

Date: 05/15/15



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/ft ²) 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	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows					
			Window Buck Height					
			48"		54"		63"	
Window Buck Width	35-1/4"	1/8-1/8-1/8	11.391 - 11.391	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
	38"	1/8-1/8-1/8	12.308 - 12.308	+50.0 -50.0	+50.0 -50.0	+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	+50.0 -50.0	+50.0 -50.0
		1/8-1/8-1/8	13.398 - 14.683	+50.0 -50.0	+50.0 -50.0	+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	+50.0 -50.0	+50.0 -50.0
		1/8-1/8-1/8	12.298 - 15.558	+50.0 -50.0	+50.0 -50.0	+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	+50.0 -50.0	+50.0 -50.0
		1/4-1/2-1/4	12.017 - 13.397	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
		1/8-1/8-1/8	13.398 - 17.016	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
	60"	Custom	11.391 - 13.397	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
		1/4-1/2-1/4	13.398 - 15.360	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
		1/8-1/8-1/8	15.361 - 19.641	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
	75"	Custom	11.391 - 13.397	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
		1/4-1/2-1/4	13.398 - 19.110	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
		1/8-1/8-1/8	19.111 - 24.641	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0
	96"	Custom	18.360 - 19.397	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+49.1* -49.1*	+49.1* -49.1*
		1/4-1/2-1/4	19.398 - 24.360	+50.0 -50.0	+50.0 -50.0	+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	+50.0 -50.0	+50.0 -50.0
	120"	1/4-1/2-1/4	** - 30.360	+50.0 -50.0	+50.0 -50.0	+50.0 -50.0	+49.1* -49.1*	+49.1* -49.1*

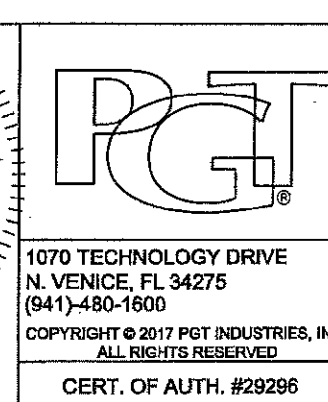
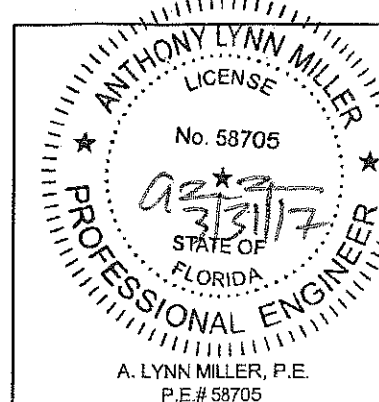
* +50/-50 FOR GLASS TYPES 6-8

SEE TABLE 23 FOR ANCHORAGE

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 59.28}{2}$

Miami-Dade County Department of Regulatory And Economic Resources - Job Copy

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 1/8-1/8-1/8 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.



Revised By: JR	Date: 03/27/17	Revision: NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:
Description: DESIGN PRESSURE TABLES		
Title: HORIZONTAL ROLLER - LM		
Series/Model: HR-5510	Scale: NTS	Sheet: 7 OF 18
Drawing No. MD-HR5510-01		Rev: B
Date: 05/15/15		

Drawn By: J ROSOWSKI

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 17-0411.08 Expiration Date 09/24/2020 By Miami-Dade Product Control

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

SEE TABLE 20 FOR ANCHORAGE

TABLE 11:

Glass Types 5 - 8	Design Pressure (lbs/ft ²) for XO or OX Windows					
Reinf. Level R4	Window Buck Height					
	48"	54"	63"	72"	81"	90"
25-1/2"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
28"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
36"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
42"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
48"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
60"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
75"	+65.0	-70.0	+65.0	-70.0	+64.3*	-84.3*

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

TABLE 12:

Glass Types 10-12 & 14-16	Design Pressure (lbs/ft ²) for XO or OX Windows					
Reinf. Level R4	Window Buck Height					
	54"	63"	72"	81"	90"	100"
25-1/2"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
28"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
36"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
42"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
48"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
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

SEE TABLE 22 FOR ANCHORAGE

TABLE 13:

Glass Types 5 & 6	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows							
Reinf. Level R4			Window Buck Height							
			36"	48"	54"	63"	72"	81"	90"	100"
60"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-65.3
	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
	1/2-1/2-1/2	15.361 - 19.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
75"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-69.6	+63.3	-63.3	+53.2	-53.2
	1/4-1/2-1/4	13.398 - 19.110	+65.0	-70.0	+65.0	-70.0	+65.0	-66.5	+56.2	-56.2
	1/2-1/2-1/2	19.111 - 24.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-66.0
96"	Custom	18.360 - 19.397	+65.0	-70.0	+59.9	-59.9	+55.5	-55.5	+49.1	-49.1
	1/4-1/2-1/4	19.398 - 24.360	+65.0	-70.0	+62.1	-62.1	+58.0	-58.0	+50.3	-50.3
	Custom	24.361 - 30.360	+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 = $\frac{\text{WINDOW WIDTH} - 59.28}{2}$

SEE TABLE 24 FOR ANCHORAGE

TABLE 15:

Glass Types 10 - 12	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows					
Reinf. Level R4			Window Buck Height					
			48"	54"	63"	72"	81"	90"
60"	Custom	11.391 - 13.397	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	1/4-1/2-1/4	13.398 - 15.360	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	1/2-1/2-1/2	15.361 - 19.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
75"	Custom	11.391 - 13.397	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	1/4-1/2-1/4	13.398 - 19.110	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	1/2-1/2-1/2	19.111 - 24.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
96"	Custom	17.641 - 19.397	+65.0	-110.0	+65.0	-110.0	+65.0*	-104.6*
	1/4-1/2-1/4	19.398 - 24.360	+65.0	-110.0	+65.0	-110.0	+65.0*	-109.5*
	Custom	24.361 - 31.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
120"	1/4-1/2-1/4	29.641 - 32.515	+65.0	-110.0	+65.0	-110.0	+65.0*	-104.6*
	1/2-1/2-1/2	32.516 - 39.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	Custom	** - 39.641	+65.0	-110.0	+65.0	-110.0	+65.0*	-104.6*

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

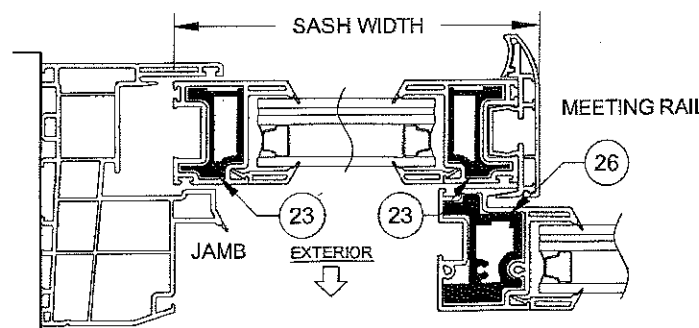
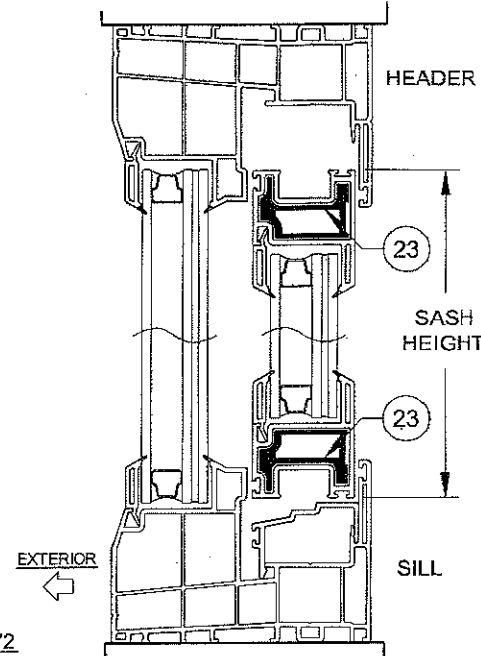
SEE TABLE 26 FOR ANCHORAGE

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

TABLE 16:

Glass Types 14 - 16	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows					
Reinf. Level R4			Window Buck Height					
			48"	54"	63"	72"	81"	90"
60"	Custom	11.391 - 13.397	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	1/4-1/2-1/4	13.398 - 15.360	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	1/2-1/2-1/2	15.361 - 19.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
75"	Custom	11.391 - 13.397	+65.0	-110.0	+65.0	-110.0	+65.0	-109.3
	1/4-1/2-1/4	13.398 - 19.110	+65.0	-110.0	+65.0	-110.0	+65.0	-102.0
	1/2-1/2-1/2	19.111 - 24.641	+65.0	-110.0	+65.0	-110.0	+65.0	-102.9
96"	Custom	17.641 - 19.397	+65.0	-110.0	+65.0	-110.0	+65.0	-97.4
	1/4-1/2-1/4	19.398 - 24.360	+65.0	-110.0	+65.0	-110.0	+65.0	-92.0
	Custom	24.361 - 31.641	+65.0	-110.0	+65.0	-110.0	+65.0	-88.4
120"	1/4-1/2-1/4	29.641 - 32.515	+65.0	-110.0	+65.0	-109.8	+65.0	-84.3
	1/2-1/2-1/2	32.516 - 39.641	+65.0	-110.0	+65.0	-105.0	+65.0	-80.8
	Custom	** - 39.641	+65.0	-110.0	+65.0	-105.0	+65.0	-80.0

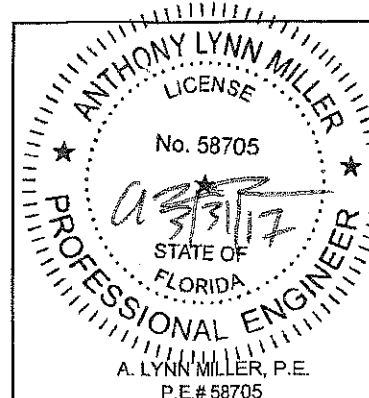
SEE TABLE 27 FOR ANCHORAGE



SECTION DETAIL FOR WINDOWS WITH LEVEL R4 REINFORCEMENT

(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



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED
CERT. OF AUTH. #29296

Revised By: JR	Date: 03/27/17	Revision: NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:
Description: DESIGN PRESSURE TABLES		
Title: HORIZONTAL ROLLER - LM		Drawn By: J ROSOWSKI
Series/Model: HR-5510		Date: 05/15/15
Scale: NTS	Sheet: 8 OF 18	Drawing No. MD-HR5510-01
Rev: B		

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 17-0411.08

Expiration Date 09/24/2020

By Miami-Dade Product Control

Miami-Dade County Department of Regulatory and Economic Resources - Job Copy

3419015702-11/14/2019 12:26:30 PM

NOA for Windows Horizontal Roller PGT HR-5510

NOTES:
1) USE TABLE 10-16 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.
3) "1/4-1/2-1/4" AND "1/2-1/2-1/2" 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 17:

Glass Types 5 - 8		Sash Width (in)	Anchor Quantities for XO or OX Windows															
			30" Height		36" Height		48" Height		54" Height		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			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	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
			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	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 18:

Glass Types 5 - 8			Sash Width (in)	Anchor Quantities for XO or OX Windows															
				30" Height		36" Height		48" Height		54" Height		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			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	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	
			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	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	

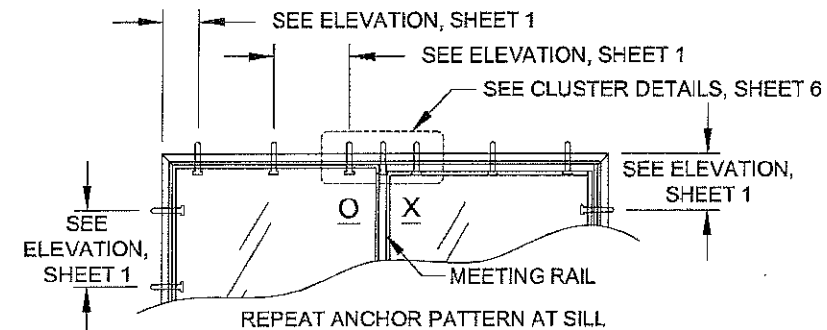
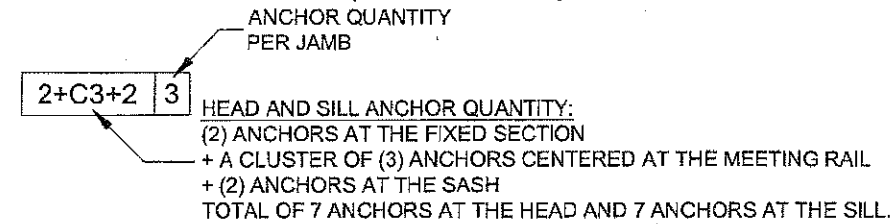
SEE TABLE 7 FOR DESIGN PRESSURE

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

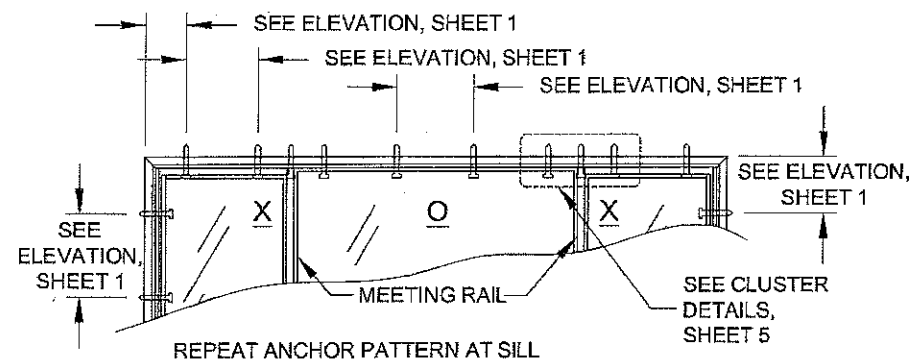
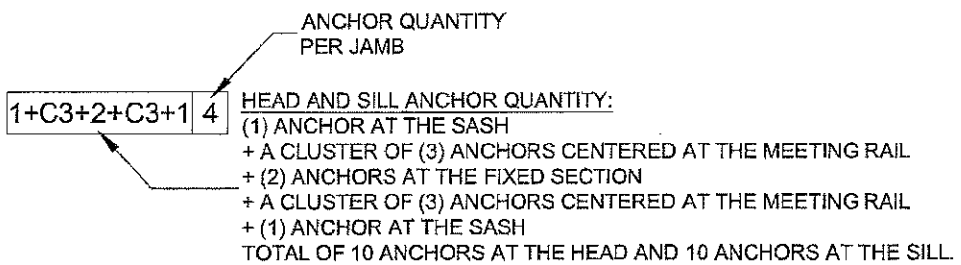
Anchor Group E	Anchor Group F
3.8"	4"

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"

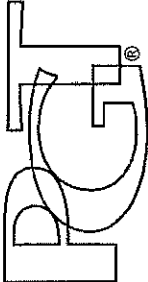
NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0411.08**

Expiration Date **09/24/2020**

By **Miami-Dade Product Control**

ADDED NOTE TO ANCHOR
QTY. TABLES.

		CERT. OF AUTH. #29296		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600		COPYRIGHT © 2017 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED	
Series / Desc. / Title		ANCHOR QUANTITY TABLES		Date		05/15/15	
Scale		HORIZONTAL ROLLER - LM		Drawn By		J ROSOWSKI	
Sheet		9 OF 18		DWG No.		MD-HR5510-01	
NTS				Rev.		B	
HR-5510							

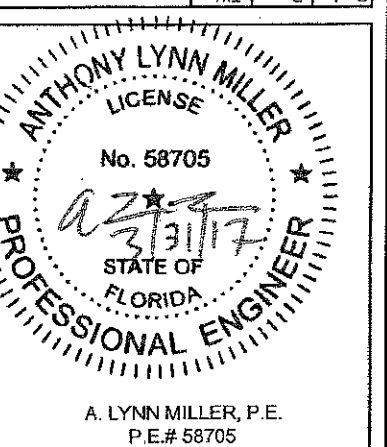


TABLE 19:

Glass Types 5 - 8			Sash Width (in)	Anchor Quantities for XO or OX Windows																			
				30" Height		36" Height		48" Height		54" Height		63" Height		30" Height		36" Height		48" Height		54" Height		63" Height	
Reinf. Level R3				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+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	
				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 8 FOR DESIGN PRESSURE

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

Anchor Group E	Anchor Group F
3.5"	4"

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0411.08**

Expiration Date **09/24/2020**

By *[Signature]*
Miami-Dade Product Control

Rev B
ADDED NOTE TO ANCHOR
QTY. TABLES. REMOVED
GLASS 5 FROM TABLE 20.

TABLE 20:

Glass Types 6 - 8		Sash Width (in)	Anchor Quantities for XO or OX Windows																								
			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	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	
	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	
	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	
	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	
	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	
	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	
Window Buck Width	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	
				Anchor Group B												Anchor 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	1+C2+1	5	
	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	
	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	
	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	
Window Buck Width	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	
	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	

SEE TABLE 10 FOR DESIGN PRESSURE

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

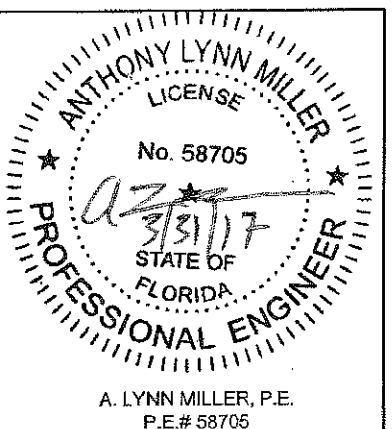
Anchor Group E	Anchor Group F
3.2"	4"

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.

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600 COPYRIGHT © 2017 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED	ANCHOR QUANTITY TABLES	HORIZONTAL ROLLER - LM	J ROSOWSKI	Rev.	B
				Date	05/15/15
				Drawn By	MD-HR5510-01
				No.	10 OF 18
PGT® CERT. OF AUTH. #29296	ANCHOR QUANTITY TABLES	HORIZONTAL ROLLER - LM	J ROSOWSKI	Sheet	NTS
				Scale	10 OF 18
				Series	HR-5510
				Desc.	NTS



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.

TABLE 21:

Glass Types 5 - 8			Sash Width (in)	Anchor Quantities for XO or OX Windows																			
				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		
Reinf. Level R4			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+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
	36"	17.397												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
	48"	23.397												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
	75"	36.897												2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+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+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	

SEE TABLE 11 FOR DESIGN PRESSURE

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

Anchor
Group F
4"

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0411.08**
Expiration Date **09/24/2020**
By 
Miami-Dade Product Control

Rev. B
ADDED NOTE TO ANCHOR
QTY. TABLES.

TABLE 22:

Glass Types 10-12 & 14-16			Sash Width (in)	Anchor Quantities for XO or OX Windows																							
				30" Height		36" Height		48" Height		54" Height		63" Height		76" Height		30" Height		36" Height		48" Height		54" Height		63" Height		76" 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	25-1/2"	12.147	Not Allowed												1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5	
	28"	13.397													1+C2+1	2	1+C2+1	3	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	
	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	
	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	
	60"	29.397													2+C2+2	2	2+C2+2	3	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	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+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	
	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	
	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	
	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	
	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	
	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	
	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	

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

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.

SEE TABLE 12 FOR DESIGN PRESSURE

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

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600
COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED

ANCHOR QUANTITY TABLES
HORIZONTAL ROLLER - LM
HR-5510 NTS
11 OF 18
J ROSOWSKI
05/15/15
MD-HR5510-01 B

ANTHONY LYNN MILLER
LICENSE
No. 58705
PROFESSIONAL ENGINEER
STATE OF FLORIDA

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.

SEE TABLE 9 FOR DESIGN PRESSURE

A circular professional engineer seal for Anthony Lynn Miller. The outer ring contains the text "ANTHONY LYNN MILLER" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring is a smaller circle with the word "LICENSE" at the top and "STATE OF FLORIDA" at the bottom. In the center of the seal, the license number "No. 58705" is printed. Below the number is a handwritten signature "A. L. Miller" and the date "3/31/17".

TABLE 24:

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

Glass Types 5 & 6				Sash Configuration		Sash Width Range (in)		Anchor Quantities for XOZ 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	Head & Sill	Jamb																								
Reinf. Level R4				Anchor Group A																								Anchor Group C																													
Window Buck Width	35-1/4"	1/3-1/3-1/3	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	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	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
	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+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	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
	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+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	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
		1/3-1/3-1/3	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+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	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
	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+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	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
		1/3-1/3-1/3	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+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	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
	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	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	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
		1/4-1/2-1/4	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+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	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
		1/3-1/3-1/3	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+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	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
	60"	Custom	11.391 - 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+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	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
		1/4-1/2-1/4	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+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	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
		1/3-1/3-1/3	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+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	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
	75"	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+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	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
		1/4-1/2-1/4	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	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	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
1/3-1/3-1/3		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+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	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																									
96"	Custom	18.360 - 19.397	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+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	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																									
	1/4-1/2-1/4	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+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	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																									
	Custom	24.361 - 30.360	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	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	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																									
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	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	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																									
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	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	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																								
	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+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	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																								
	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+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	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																								
		1/3-1/3-1/3	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+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	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																								
	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+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	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																								
		1/3-1/3-1/3	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+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	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																								
	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	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	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																								
		1/4-1/2-1/4	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+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	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																								
		1/3-1/3-1/3	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+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	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																								
	60"	Custom	11.391 - 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+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	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																								
		1/4-1/2-1/4	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+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	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																								
		1/3-1/3-1/3	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+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	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																								
	75"	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+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	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																								
		1/4-1/2-1/4	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	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	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																								
1/3-1/3-1/3		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+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	2	1+C2+1+C2+1																																

Not Allowed

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.

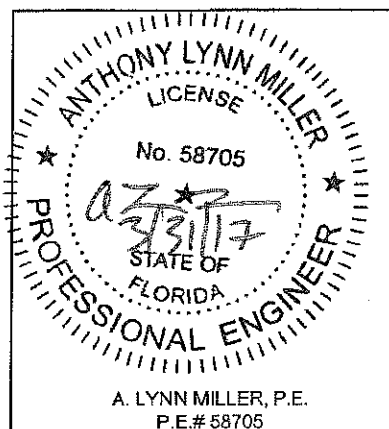
SEE TABLE 13 FOR DESIGN PRESSURE

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0411.08**

Expiration Date **09/24/2020**

By 
Miami-Dade Product Control

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600	COPYRIGHT © 2017 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED	ANCHOR QUANTITY TABLES	J ROSOWSKI	MD-HR5510-01	B
PGT® CERT. OF AUTH. #29296	ANCHOR QUANTITY TABLES	HORIZONTAL ROLLER - LM	J ROSOWSKI	MD-HR5510-01	B
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER	ANCHOR QUANTITY TABLES	HORIZONTAL ROLLER - LM	J ROSOWSKI	MD-HR5510-01	B
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER	ANCHOR QUANTITY TABLES	HORIZONTAL ROLLER - LM	J ROSOWSKI	MD-HR5510-01	B



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

Miami-Dade County Department of Regulatory and Economic Resources - Job Copy

3419015717-11-14-2019 12:25:30 PM
Max Anchor O.C.
Spacing for "Integral-
Fin" Installation
Anchor Group F
4"

NCA for Windows Horizontal Roller PGT 17041108.pdf

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

ANTHONY LYNN MILLER
LICENSE
No. 58705
PROFESSIONAL ENGINEER
FLORIDA

02/3/17

3419015717 Max Anchor 6 C Spacing for "Integral-
Fin" Installation

- 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.

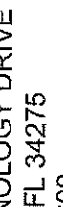
SEE TABLE 14 FOR DESIGN PRESSURE

TABLE 26: MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

Glass Types 10 - 12			Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows																																		
Reinf. Level R4	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													
					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	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	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	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+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+C2+0+C2+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+C2+0+C2+1	4	1+C2+0+C2+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+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
	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+C2+0+C2+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+C2+0+C2+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+C2+0+C2+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+C2+0+C2+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+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
		¼-½-¼	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+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 - 17.016													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+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+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+2+C3+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+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+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C3+2+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
		⅓-⅓-⅓	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+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
	75"	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+C3+3+C3+1	4	1+C3+3+C3+1	4	1+C2+2+C2+1	2	1+C2+2+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
		¼-½-¼	13.398 - 19.110													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+C3+3+C3+1	4	1+C4+3+C4+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+C4+2+C4+1	4
		⅓-⅓-⅓	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+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
	96"	Custom	17.641 - 19.397													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+C4+4+C4+1	4	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
¼-½-¼		19.398 - 24.360	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+C4+4+C4+1	4	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+C3+3+C3+1	4	1+C4+3+C4+1	4													
⅓-⅓-⅓		24.361 - 31.641	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+3+C3+2	4	2+C3+3+C3+2	4	2+C4+3+C4+2	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+C4+2+C4+1	4													
120"	¼-½-¼	29.641 - 32.515	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+4+C2+2	3	2+C3+4+C3+2	4	2+C3+4+C3+2	4	2+C4+4+C4+2	4	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													
	⅓-⅓-⅓	32.516 - 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	2+C4+4+C4+2	4	2+C5+4+C5+2	4	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+3+C3+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+3+C2+2	2	2+C2+4+C2+2	3	2+C3+4+C3+2	4	2+C4+4+C4+2	4	2+C5+4+C5+2	4	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+C4+4+C4+2	4	2+C4+4+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	2	1+C2+0+C2+1	3	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+C2+0+C2+1	4	1+C2+0+C2+1	2	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												
	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+C2+0+C2+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	2	1+C2+0+C2+1	3	1+C2+0+C2+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+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	2	1+C2+0+C2+1	3	1+C2+0+C2+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+C2+0+C2+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	2	1+C2+0+C2+1	3	1+C2+0+C2+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+C2+0+C2+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	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4												
	52-1/8"	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+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	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4												
		¼-½-¼	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+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	2	1+C2+0+C2+1	3	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+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	2	1+C2+0+C2+1	3	1+C2+0+C2+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+2+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C3+2+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+C2+2+C2+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	2	1+C2+1+C2+1	3	1+C2+1+C2+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+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	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4												
	75"	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+C3+3+C3+1	4	1+C3+3+C3+1	4	1+C2+2+C2+1	2	1+C2+2+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												
		¼-½-¼	13.398 - 19.110	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+C3+3+C3+1	4	1+C4+3+C4+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C3+2+C3+1	4												
		⅓-⅓-⅓	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+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												
	96"	Custom	17.641 - 19.397	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+C4+4+C4+1	4	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												
¼-½-¼		19.398 - 24.360	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+C4+4+C4+1	4	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+C3+3+C3+1	4	1+C4+3+C4+1	4													
⅓-⅓-⅓		24.361 - 31.641	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+3+C3+2	4	2+C3+3+C3+2	4	2+C4+3+C4+2	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+C4+2+C4+1	4													
120"	¼-½-¼	29.641 - 32.515	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+4+C2+2	3	2+C3+4+C3+2	4	2+C3+4+C3+2	4	2+C4+4+C4+2	4	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													
	⅓-⅓-⅓	32.516 - 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	2+C4+4+C4+2	4	2+C5+4+C5+2	4	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+3+C3+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+3+C2+2	2	2+C2+4+C2+2	3	2+C3+4+C3+2	4	2+C4+4+C4+2	4	2+C5+4+C5+2	4	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+C4+4+C4+2	4	2+C4+4+C4+2	4													

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By 
Miami-Dade Product Control

Rev B ADDED NOTE TO ANCHOR
QTY. TABLES.

		CERT. OF AUTH. #29296	
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600		COPYRIGHT © 2017 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED	
ANCHOR QUANTITY TABLES		Date	05/15/15
HORIZONTAL ROLLER - LM		Drawn By	J ROSOWSKI
HR-5510	code	NTS	15 OE 18
need	to	MD-HB5510-01	B

ANTHONY LYNN MILLER
LICENSE
No. 58705
az
3/3/17
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

140" Custom ** - 39,641 2+ C2+3+ C2+2 2 2+ C2+3+ C2+2 2 2+ C2+4+ C2+2 3 2+ C3+4+ C3+2

Miami Dade County Department of Regulatory And Economic Resources - Job Copy

3419015717_11/14/2019 12:25:30 PM

GLASS TYPES 10-12 & 14-16 ** M/N. SASH SIZE = WINDOW WIDTH - 60.72
J-CHANNEL OR INTEGRAL
FIN FRAMES

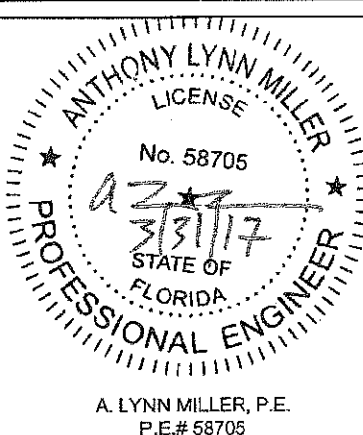
NOTES:

- 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.

SEE TABLE 15 FOR DESIGN PRESSURE

Glass Types 14 - 16			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	Head & Sill	Jamb																						
Reinf. Level R4			Anchor Group A																						Anchor Group C																											
Window Buck Width	35-1/4"	1/8-1/8-1/8	11.391 - 11.391	Not Allowed																						1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	2	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	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4						
	38"	1/8-1/8-1/8	12.308 - 12.308																							1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	2	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4		
	45-1/8"	1/4-1/4-1/4	11.391 - 13.397																							1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	2	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4		
		1/8-1/8-1/8	13.398 - 14.683																							1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	2	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4		
	47-3/4"	1/4-1/4-1/4	11.391 - 12.297																							1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	2	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4		
		1/8-1/8-1/8	12.298 - 15.558																							1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	2	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+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	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4	1+C7+0+C7+1	4	
		1/4-1/4-1/4	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	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4	1+C7+0+C7+1	4	
		1/8-1/8-1/8	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	3	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4	1+C7+0+C7+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	2	3	1+C3+2+C3+1	4	1+C3+2+C3+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4
		1/4-1/4-1/4	13.398 - 15.360																							1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	3	1+C3+2+C3+1	4	1+C3+2+C3+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4
		1/8-1/8-1/8	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	1+C5+0+C5+1	4	1+C6+0+C6+1	4	1+C6+0+C6+1	4	1+C7+0+C7+1	4	1+C7+0+C7+1	4	1+C7+0+C7+1	4	1+C7+0+C7+1	4	
	75"	Custom	11.391 - 13.397																							1+C2+3+C2+1																										

		CERT. OF AUTH. #29296		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)-480-1600		COPYRIGHT © 2017 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED	
ANCHOR QUANTITY TABLES		Date		05/15/15			
HORIZONTAL ROLLER - LM		Drawn By		J ROSOWSKI			
HR-5510	16 OF 18	NTS	16 OF 18	MD-HR5510-01	REV.	B	

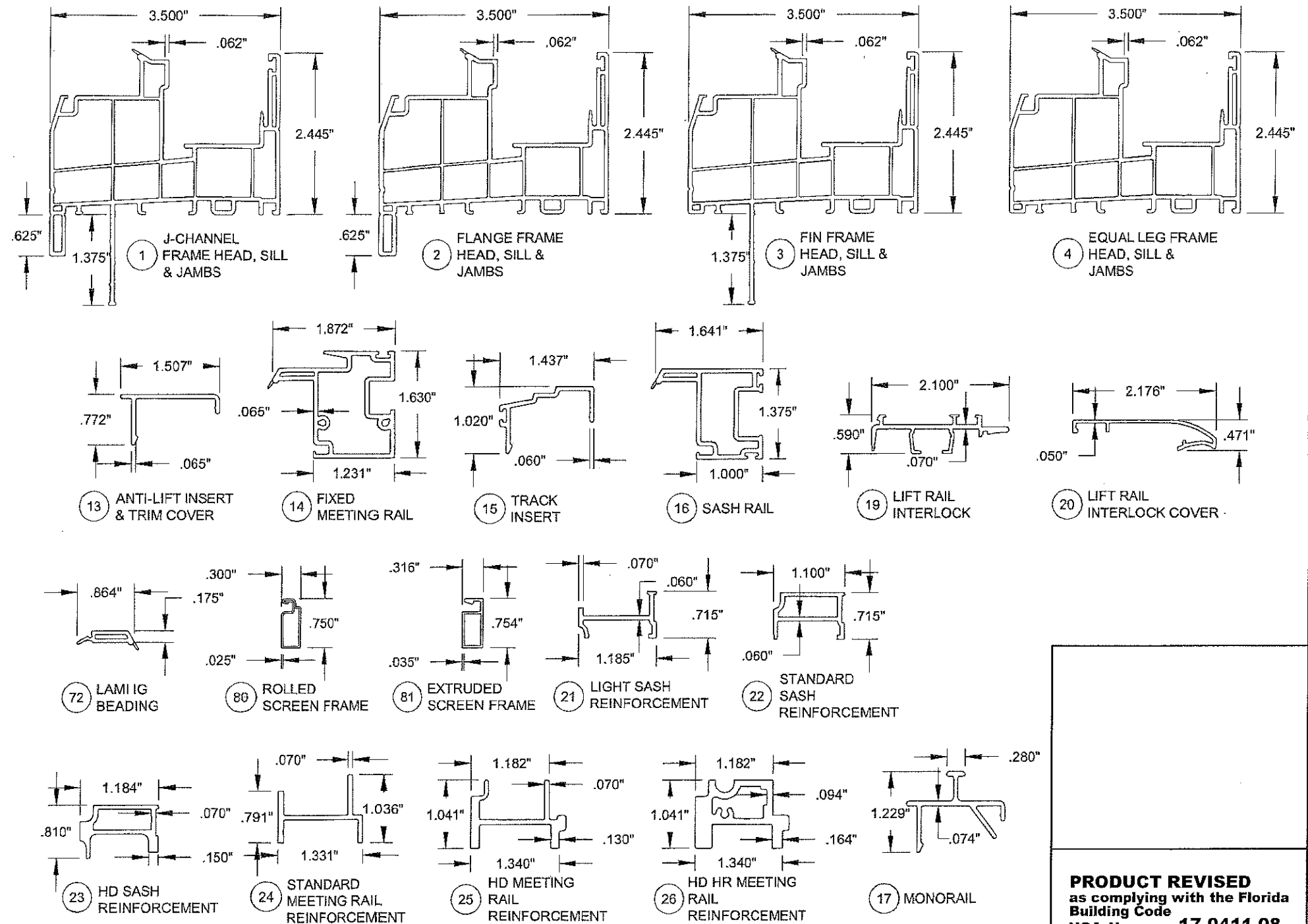


SEE TABLE 16 FOR DESIGN PRESSURE

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 28:

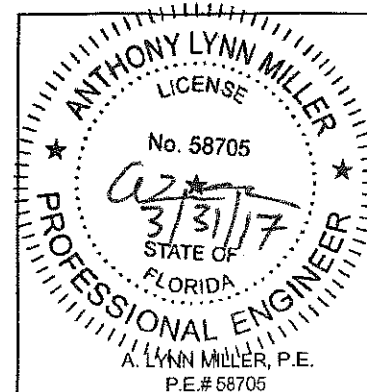
Bill of Material			
#	Part #	Description	Material
1	620121	Frame Head, Sill and Jambs - J-Channel	PVC
2	620122	Frame Head, Sill and Jambs - Flange	PVC
3	620123	Frame Head, Sill and Jambs - Fin	PVC
4	620124	Frame Head, Sill and Jambs - Equal Leg	PVC
13	620172	Anti-Lift Insert / Trim Cover	PVC
14	620131	Fixed Meeting Rail	PVC
15	620158	Track Insert	6063 T6 Al
16	620129	Sash Rail (Sides, Top & Bottom)	PVC
17	620166	Monorail	6063 T6 Al
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
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 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 (Reinforcement Screw)	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
72	620135	Lami. 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
87	61635/61614	140" Screen Spline (Machine/Hand Rolled)	Vinyl



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0411.08**

Expiration Date **09/24/2020**

By *[Signature]*
Miami-Dade Product Control



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

COPYRIGHT © 2017 PGT INDUSTRIES, INC.
ALL RIGHTS RESERVED

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
JR	03/27/17	NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:

Description:
WINDOW EXTRUSIONS & BOM

Drawn By:
J ROSOWSKI

Title:
HORIZONTAL ROLLER - LM

Date:
05/15/15

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	17 OF 18	MD-HR5510-01	B

Miami-Dade County Department of Regulatory and Economic Resources Job Copy

3419015717-10/10/2019 12:25:30 PM

NCA for Windows Horizontal Roller PGT 17041108.pdf

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.

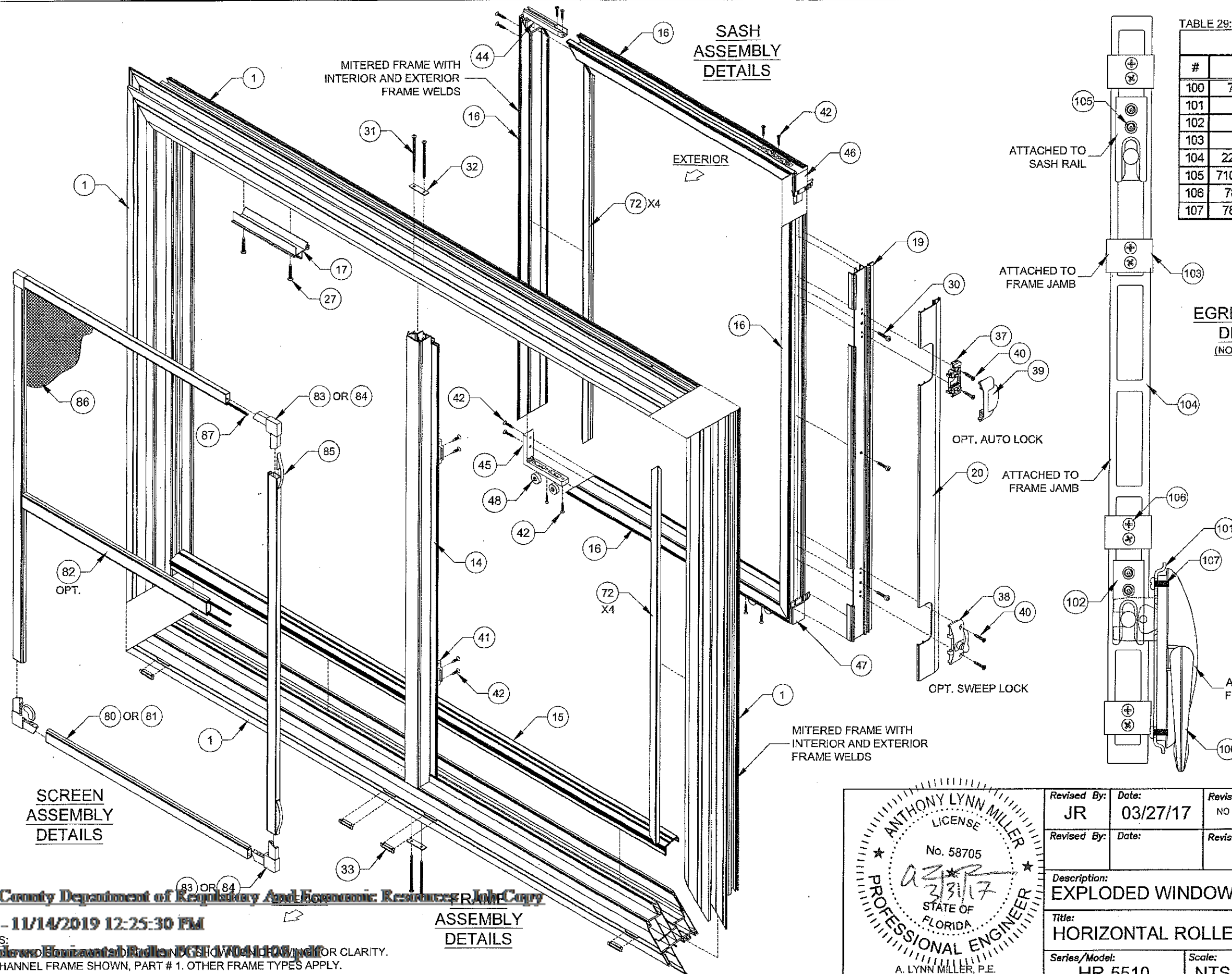
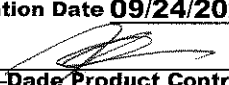


TABLE 29:

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

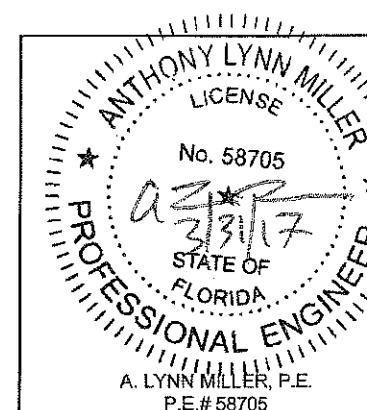
EGRESS LOCK
DETAILS
(NOT TO SCALE)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **17-0411.08**
Expiration Date **09/24/2020**
By 
Miami-Dade Product Control



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

CERT. OF AUTH. #29296



Revised By: JR	Date: 03/27/17	Revision: NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:
Description: EXPLODED WINDOW VIEW	Drawn By: J ROSOWSKI	
Title: HORIZONTAL ROLLER - LM	Date: 05/15/15	
Series/Model: HR-5510	Scale: NTS	Sheet: 18 OF 18
Drawing No. MD-HR5510-01	Rev: B	

NOTES:
1) J-CORNER FRAME SHOWN, PART # 1. OTHER FRAME TYPES APPLY.
2) FOR REINFORCEMENT TYPES, SEE DETAILS ON SHEETS 6-8.

Miami-Dade County Department of Regulatory and Economic Resources

3419015717 - 11/14/2019 12:25:30 PM

NCA for Windows Horizontal Roller Egress Lock