



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-610" Aluminum Horizontal Rolling Window - N.I.

APPROVAL DOCUMENT: Drawing No. **4127-20**, titled "Alum. Horizontal Roller Window, Non-Impact", sheets 1 through 12 of 12, dated 02/27/06, with revision E dated 05/05/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None.

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

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

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

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

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

This NOA revises NOA# **15-0519.10** 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 **Manuel Perez, P.E.**



Handwritten signature and date:
8/23/16

NOA No. 16-0714.14
Expiration Date: July 27, 2021
Approval Date: September 01, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 06-0327.04)
2. Drawing No. **4127-20**, titled "Alum. Horizontal Roller Window, Non-Impact", sheets 1 through 12 of 12, dated 02/27/06, with revision E dated 05/05/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window (OX), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5005**, dated 10/05/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 06-0327.04)
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, TAS 202-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window (OX), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4857**, dated 03/08/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No.06-0327.04)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.14

Expiration Date: July 27, 2021
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. 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, TAS 202-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window (XOX), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4860**, dated 02/08/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 06-0327.04)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 05/14/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under previous NOA No. 15-0519.10)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

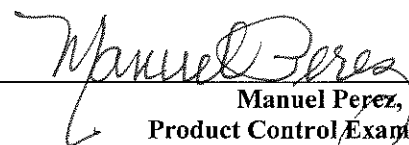
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, dated May 16, 2015, issued by manufacturer, signed and sealed by A. Lynn Miller, P.E.
(Submitted under previous NOA No. 15-0519.10)
2. Statement letter of no financial interest, dated May 16, 2015, issued by manufacturer, signed and sealed by A. Lynn Miller, P.E.
(Submitted under previous NOA No. 15-0519.10)
3. Laboratory compliance letter for Test Report No. **FTL-5005**, issued by Fenestration Testing Laboratory, Inc., dated 11/08/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 06-0327.04)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.14

Expiration Date: July 27, 2021
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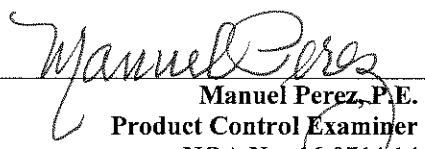
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

4. Laboratory compliance letter for Test Reports No. **FTL-4857 and FTL-4860**, issued by Fenestration Testing Laboratory, Inc., dated 02/08/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 06-0327.04)
5. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.

G. OTHERS

1. Notice of Acceptance No. **15-0519.10**, issued to PGT Industries for their Series "HR-610" Aluminum Horizontal Rolling Window - N.I., approved on 07/09/15 and expiring on 07/27/21.

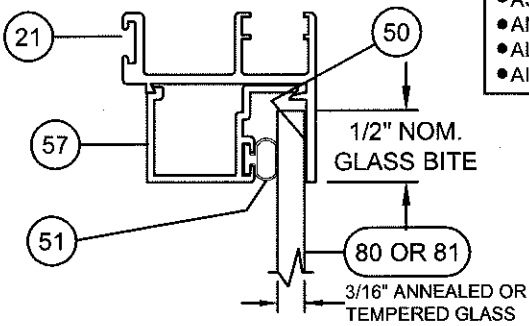


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.14
Expiration Date: July 27, 2021
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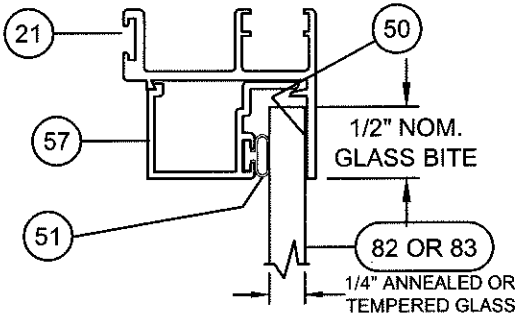
GENERAL NOTES: NON-IMPACT HORIZONTAL ROLLER FLANGED AND INTEGRAL FIN WINDOW

1. GLAZING OPTIONS:
- A. 3/16" ANNEALED GLASS
 - B. 3/16" TEMPERED GLASS
 - C. 1/4" ANNEALED GLASS
 - D. 1/4" TEMPERED GLASS
 - E. 13/16" I.G., 1/8" ANNEALED OUTBOARD, 9/16" AIR SPACE, 1/8" ANNEALED INBOARD
 - F. 13/16" I.G., 1/8" TEMPERED OUTBOARD, 9/16" AIR SPACE, 1/8" TEMPERED INBOARD
 - G. 13/16" I.G., 3/16" ANNEALED OUTBOARD, 7/16" AIR SPACE, 3/16" ANNEALED INBOARD
 - H. 13/16" I.G., 3/16" TEMPERED OUTBOARD, 7/16" AIR SPACE, 3/16" TEMPERED INBOARD
 - I. 13/16" I.G., 3/16" ANNEALED OUTBOARD, 1/2" AIR SPACE, 1/8" ANNEALED INBOARD
 - J. 13/16" I.G., 3/16" TEMPERED OUTBOARD, 1/2" AIR SPACE, 1/8" TEMPERED INBOARD
2. CONFIGURATIONS: OX, XO, XOX
3. DESIGN PRESSURES: (SEE TABLES, SHEETS 2 THROUGH 4)
- A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300.
 - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300.
 - C. DESIGN PRESSURES UNDER 40 PSF ARE NOT APPLICABLE IN MIAMI-DADE COUNTY.
4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.
SEE SHEETS 9 THROUGH 12 FOR ANCHORAGE DETAILS.
5. MIAMI-DADE COUNTY APPROVED SHUTTERS ARE REQUIRED IN MIAMI-DADE AND WHERE IMPACT RESISTANCE IS REQUIRED.
6. FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT OR GASKET.
7. REFERENCES: TEST REPORTS FTL-4857, FTL-4860 AND FTL-5005; ELCO TEXTRON NOA'S; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION; ALUMINUM DESIGN MANUAL
8. SERIES/MODEL DESIGNATION HR610, PREVIOUSLY REFERRED TO AS HR710.
9. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

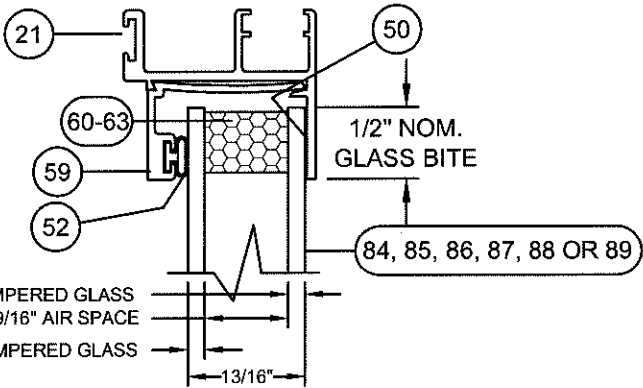
- STANDARDS USED:
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
 - ASTM E1300-09
 - ANSI/AF&PA NDS-2012 FOR WOOD CONSTRUCTION
 - ALUMINUM DESIGN MANUAL, ADM-2010
 - AISI-S100-07/S2-2010



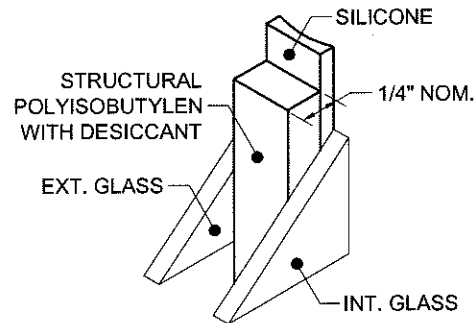
3/16" MONOLITHIC GLASS



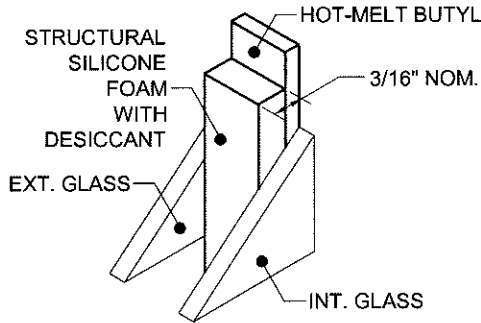
1/4" MONOLITHIC GLASS



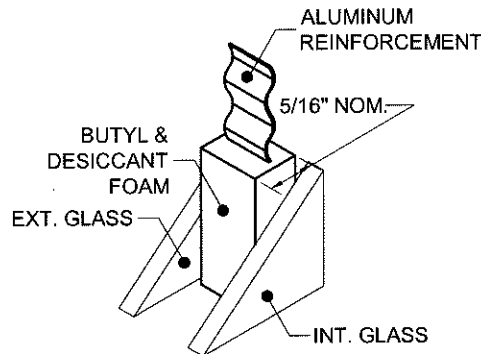
13/16" INSULATED GLASS



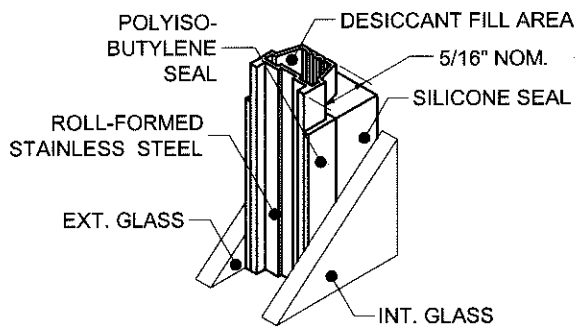
60 KODISPACE 4SG TPS



61 SUPER SPACER[®] NXT[™]



62 DURASEAL[®] SPACER



63 XL EDGE[™] SPACER

1/8" OR 3/16" ANNEALED OR TEMPERED GLASS
7/16", 1/2" OR 9/16" AIR SPACE
1/8" OR 3/16" ANNEALED OR TEMPERED GLASS

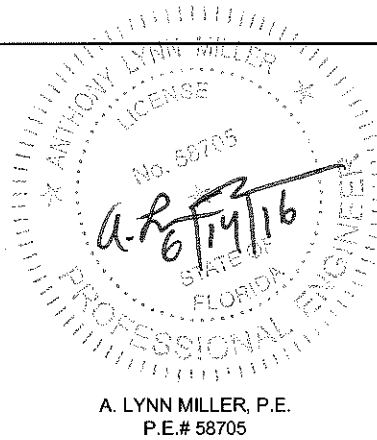
Part #	Description	Material
60	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
61	Quanex Super Spacer nXT with Hot Melt Butyl	
62	Quanex Duraseal Spacer	
63	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

NOA DRAWING MAP

SHEET	
GENERAL NOTES.....	1
GLAZING DETAILS.....	1
DESIGN PRESSURES.....	2-4
ELEVATIONS.....	5
VERT. SECTIONS.....	6
HORIZ. SECTIONS.....	6
PARTS LIST.....	7
EXTRUSIONS.....	8
CORNER DETAIL.....	6
ANCHORAGE.....	9-12

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714-14
Expiration Date July 27, 2021
By *Manuel Perez*
Miami/Dade Product Control



Revised By:	Date:	Revisions:	
JR	05/05/16	E	ADDED SPACERS TO THIS SHEET.
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	2/27/06	J.J.	3/22/06

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



Description:				
GENERAL NOTES, FLANGE & INTEGRAL FIN				
Title:				
ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT				
Series/Model:	Scale:	Sheet:	Drawing No.	Rev.
HR610	NTS	1 of 12	4127-20	E

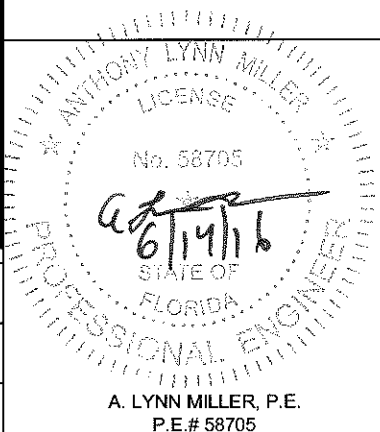
XOX (1/4,1/2,1/4) FLANGE OR INTEGRAL FIN WINDOWS (FLANGED SHOWN. FIN WINDOWS W/ SAME DLO ARE 1" SMALLER) TABLE 1.

WINDOW WIDTH	GLASS TYPE	WINDOW HEIGHT																	
		24"		26"		36"		38 3/8"		48"		50 5/8"		54"		60"		63"	
48"	A,E,I	+75.0	-150.0	+75.0	-150.0	+75.0	-131.2	+75.0	-123.1	+75.0	-88.7	+75.0	-82.1	+75.0	-75.2	+67.6	-67.6	+65.0	-65.0
	C	+75.0	-150.0	+75.0	-150.0	+75.0	-146.2	+75.0	-133.9	+75.0	-100.0	+75.0	-93.5	+75.0	-86.4	+75.0	-76.0	+71.7	-71.7
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-142.5	+75.0	-134.4
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-137.5	+75.0	-128.6	+75.0	-118.8	+75.0	-104.5	+75.0	-98.6
53 1/8"	A,E,I	+75.0	-150.0	+75.0	-150.0	+75.0	-119.6	+75.0	-109.4	+75.0	-82.7	+75.0	-78.7	+73.2	-73.2	+63.1	-63.1	+58.6	-58.6
	C	+75.0	-150.0	+75.0	-150.0	+75.0	-137.7	+75.0	-125.7	+75.0	-93.0	+75.0	-86.8	+75.0	-80.0	+70.2	-70.2	+66.1	-66.1
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-149.9	+75.0	-131.6	+75.0	-124.0
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-127.8	+75.0	-119.3	+75.0	-110.0	+75.0	-96.5	+75.0	-90.9
60"	A,E,I	+75.0	-150.0	+75.0	-150.0	+75.0	-104.1	+75.0	-92.0	+75.0	-76.6	+71.5	-71.5	+65.9	-65.9	+57.7	-57.7	+54.8	-54.8
	C	+75.0	-150.0	+75.0	-150.0	+75.0	-129.4	+75.0	-117.5	+75.0	-85.6	+75.0	-79.7	+73.3	-73.3	+64.0	-64.0	+60.2	-60.2
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-149.5	+75.0	-137.3	+75.0	-120.0	+75.0	-112.9
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-117.7	+75.0	-109.6	+75.0	-100.7	+75.0	-88.0	+75.0	-82.8
74"	A,E,I	+75.0	-105.2	+75.0	-105.2	+75.0	-105.2	+75.0	-105.2	+75.0	-75.6	+70.0	-70.0	+63.9	-63.9	+55.3	-55.3	+51.8	-51.8
	C	+75.0	-105.2	+75.0	-105.2	+75.0	-105.2	+75.0	-105.2	+75.0	-75.6	+70.0	-70.0	+63.9	-63.9	+55.3	-55.3	+51.8	-51.8
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-140.0	+75.0	-131.2	+75.0	-119.8	+75.0	-103.7	+75.0	-97.1
	G	+75.0	-144.6	+75.0	-144.6	+75.0	-144.6	+75.0	-144.6	+75.0	-104.0	+75.0	-96.2	+75.0	-87.8	+75.0	-76.0	+71.2	-71.2
84"	A,E,I	+75.0	-81.6	+75.0	-81.6	+75.0	-79.5	+75.0	-76.7	+63.6	-63.6	+60.5	-60.5	+57.0	-57.0	+50.3	-50.3	+47.7	-47.7
	C	+75.0	-81.6	+75.0	-81.6	+75.0	-81.6	+75.0	-81.6	+71.2	-71.2	+65.5	-65.5	+59.5	-59.5	+51.1	-51.1	+47.7	-47.7
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-133.5	+75.0	-122.9	+75.0	-111.5	+75.0	-95.8	+75.0	-89.5
	G	+75.0	-112.2	+75.0	-112.2	+75.0	-112.2	+75.0	-112.2	+75.0	-97.9	+75.0	-90.1	+75.0	-81.8	+70.3	-70.3	+65.6	-65.6
96"	A,E,I	+62.5	-62.5	+62.5	-62.5	+62.5	-62.5	+62.5	-62.5	+58.0	-58.0	+55.3	-55.3	+52.2	-52.2	+47.5	-47.5	+44.2	-44.2
	C	+62.5	-62.5	+62.5	-62.5	+62.5	-62.5	+62.5	-62.5	+62.5	-62.5	+62.0	-62.0	+55.9	-55.9	+47.5	-47.5	+44.2	-44.2
	B,D,F,H,J	+75.0	-117.2	+75.0	-117.2	+75.0	-117.2	+75.0	-117.2	+75.0	-117.2	+75.0	-116.3	+75.0	-104.8	+75.0	-89.1	+75.0	-82.8
	G	+75.0	-85.9	+75.0	-85.9	+75.0	-85.9	+75.0	-85.9	+75.0	-85.9	+75.0	-85.3	+75.0	-76.8	+65.3	-65.3	+60.8	-60.8
106 3/8"	A,E,I	+51.4	-51.4	+50.9	-50.9	+50.9	-50.9	+50.9	-50.9	+50.9	-50.9	+50.9	-50.9	+48.3	-48.3	+43.5	-43.5	+41.7	-41.7
	C	+51.4	-51.4	+50.9	-50.9	+50.9	-50.9	+50.9	-50.9	+50.9	-50.9	+50.9	-50.9	+50.9	-50.9	+45.3	-45.3	+42.0	-42.0
	B,D,F,H,J	+75.0	-96.4	+75.0	-95.5	+75.0	-95.4	+75.0	-95.4	+75.0	-95.4	+75.0	-95.4	+75.0	-95.4	+75.0	-85.0	+75.0	-78.7
	G	+70.7	-70.7	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+62.3	-62.3	+57.7	-57.7
108"	A,E,I	+50.0	-50.0	+49.5	-49.5	+49.4	-49.4	+49.4	-49.4	+49.4	-49.4	+49.4	-49.4	+47.3	-47.3	+42.9	-42.9	+41.1	-41.1
	C	+50.0	-50.0	+49.5	-49.5	+49.4	-49.4	+49.4	-49.4	+49.4	-49.4	+49.4	-49.4	+49.4	-49.4	+45.0	-45.0	+41.7	-41.7
	B,D,F,H,J	+75.0	-93.8	+75.0	-92.7	+75.0	-92.6	+75.0	-92.6	+75.0	-92.6	+75.0	-92.6	+75.0	-92.6	+75.0	-84.4	+75.0	-78.2
	G	+68.8	-68.8	+68.0	-68.0	+67.9	-67.9	+67.9	-67.9	+67.9	-67.9	+67.9	-67.9	+67.9	-67.9	+61.9	-61.9	+57.3	-57.3
111"	A,E,I	+47.6	-47.6	+46.9	-46.9	+46.7	-46.7	+46.7	-46.7	+46.7	-46.7	+46.7	-46.7	+46.0	-46.0	+41.7	-41.7	+39.9	-39.9
	C	+47.6	-47.6	+46.9	-46.9	+46.7	-46.7	+46.7	-46.7	+46.7	-46.7	+46.7	-46.7	+46.7	-46.7	+44.6	-44.6	+41.2	-41.2
	B,D,F,H,J	+75.0	-89.3	+75.0	-88.0	+75.0	-87.7	+75.0	-87.7	+75.0	-87.7	+75.0	-87.7	+75.0	-87.7	+75.0	-83.6	+75.0	-77.3
	G	+65.5	-65.5	+64.5	-64.5	+64.3	-64.3	+64.3	-64.3	+64.3	-64.3	+64.3	-64.3	+64.3	-64.3	+61.3	-61.3	+56.7	-56.7
120"	A,E,I	+41.7	-41.7	+40.7	-40.7	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+38.7	-38.7	+36.9	-36.9
	C	+41.7	-41.7	+40.7	-40.7	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0
	B,D,F,H,J	+75.0	-78.1	+75.0	-76.4	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
	G	+57.3	-57.3	+56.0	-56.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0

GLASS TYPES:				A. 3/16" ANNEALED				F. 13/16" I.G., 1/8"T, 9/16" AIR SPACE, 1/8"T			
TEST REPORTS: FTL-4860				B. 3/16" TEMPERED				G. 13/16" I.G., 3/16"A, 7/16" AIR SPACE, 3/16"A			
FTL-5005				C. 1/4" ANNEALED				H. 13/16" I.G., 3/16"T, 7/16" AIR SPACE, 3/16"T			
				D. 1/4" TEMPERED				I. 13/16" I.G., 3/16"A, 1/2" AIR SPACE, 1/8"A			
				E. 13/16" I.G., 1/8"A, 9/16" AIR SPACE, 1/8"A				J. 13/16" I.G., 3/16"T, 1/2" AIR SPACE, 1/8"T			

Revised By:	Date:	Revisions:		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: DESIGN PRESSURES, XOX (1/4-1/2-1/4)					
Revised By:	Date:	Revisions:				Title: ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT					
Revised By:	Date:	Revisions:				Series/Model:	Scale:	Sheet:	Drawing No.	Rev:	
Drawn By:	Date:	Checked By:	Date:			HR610	NTS	2 of 12	4127-20	E	
F.K.	2/27/06	J.J.	3/22/06								

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-P714, 14
Expiration Date July 27, 2021
By 
Miami Dade Product Control



XOX (1/3,1/3,1/3) FLANGE OR INTEGRAL FIN WINDOWS (FLANGED SHOWN. FIN WINDOWS W/ SAME DLO ARE 1" SMALLER)TABLE 2.

WINDOW WIDTH	GLASS TYPE	WINDOW HEIGHT																	
		24"		26"		36"		38 3/8"		48"		50 5/8"		54"		60"		63"	
48"	A,C,E,I	+75.0	-140.6	+75.0	-140.6	+75.0	-128.6	+75.0	-118.5	+75.0	-90.0	+75.0	-84.4	+75.0	-78.3	+69.2	-69.2	+65.5	-65.5
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-146.7	+75.0	-129.8	+75.0	-122.7
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-123.8	+75.0	-116.1	+75.0	-107.6	+75.0	-95.2	+75.0	-90.0
53 1/8"	A,C,E,I	+75.0	-114.8	+75.0	-114.8	+75.0	-114.8	+75.0	-110.2	+75.0	-83.1	+75.0	-77.9	+72.0	-72.0	+63.6	-63.6	+60.1	-60.1
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-146.0	+75.0	-135.1	+75.0	-119.2	+75.0	-112.6
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-114.3	+75.0	-107.1	+75.0	-99.1	+75.0	-87.4	+75.0	-82.6
60"	A,C,E,I	+75.0	-90.0	+75.0	-90.0	+75.0	-90.0	+75.0	-90.0	+75.0	-75.8	+70.9	-70.9	+65.5	-65.5	+57.6	-57.6	+54.3	-54.3
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-142.1	+75.0	-132.9	+75.0	-122.7	+75.0	-108.0	+75.0	-101.9
	G	+75.0	-123.8	+75.0	-123.8	+75.0	-123.8	+75.0	-123.8	+75.0	-104.2	+75.0	-97.5	+75.0	-90.0	+75.0	-79.2	+74.7	-74.7
66"	A,C,E,I	+74.4	-74.4	+74.4	-74.4	+74.4	-74.4	+74.4	-74.4	+70.8	-70.8	+66.1	-66.1	+60.9	-60.9	+53.4	-53.4	+50.3	-50.3
	B,D,F,H,J	+75.0	-139.5	+75.0	-139.5	+75.0	-139.5	+75.0	-139.5	+75.0	-132.7	+75.0	-123.9	+75.0	-114.2	+75.0	-100.2	+75.0	-94.4
	G	+75.0	-102.3	+75.0	-102.3	+75.0	-102.3	+75.0	-102.3	+75.0	-97.3	+75.0	-90.8	+75.0	-83.7	+73.5	-73.5	+69.2	-69.2
72"	A,C,E,I	+62.5	-62.5	+62.5	-62.5	+62.5	-62.5	+62.5	-62.5	+62.5	-62.5	+62.1	-62.1	+57.1	-57.1	+50.0	-50.0	+47.1	-47.1
	B,D,F,H,J	+75.0	-117.2	+75.0	-117.2	+75.0	-117.2	+75.0	-117.2	+75.0	-117.2	+75.0	-116.5	+75.0	-107.1	+75.0	-93.8	+75.0	-88.2
	G	+75.0	-85.9	+75.0	-85.9	+75.0	-85.9	+75.0	-85.9	+75.0	-85.9	+75.0	-85.4	+75.0	-78.6	+68.8	-68.8	+64.7	-64.7
74"	A,C,E,I	+59.2	-59.2	+59.2	-59.2	+59.2	-59.2	+59.2	-59.2	+59.2	-59.2	+59.2	-59.2	+56.0	-56.0	+49.0	-49.0	+46.1	-46.1
	B,D,F,H,J	+75.0	-111.0	+75.0	-110.9	+75.0	-110.9	+75.0	-110.9	+75.0	-110.9	+75.0	-110.9	+75.0	-105.1	+75.0	-91.9	+75.0	-86.4
	G	+75.0	-81.4	+75.0	-81.4	+75.0	-81.4	+75.0	-81.4	+75.0	-81.4	+75.0	-81.4	+75.0	-77.1	+67.4	-67.4	+63.4	-63.4
84"	A,C,E,I	+46.9	-46.9	+46.2	-46.2	+45.9	-45.9	+45.9	-45.9	+45.9	-45.9	+45.9	-45.9	+45.9	-45.9	+44.7	-44.7	+42.0	-42.0
	B,D,F,H,J	+75.0	-87.9	+75.0	-86.5	+75.0	-86.1	+75.0	-86.1	+75.0	-86.1	+75.0	-86.1	+75.0	-86.1	+75.0	-83.9	+75.0	-78.7
	G	+64.5	-64.5	+63.5	-63.5	+63.1	-63.1	+63.1	-63.1	+63.1	-63.1	+63.1	-63.1	+63.1	-63.1	+61.5	-61.5	+57.7	-57.7
90"	A,C,E,I	+41.7	-41.7	+40.7	-40.7	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0	+40.0	-40.0
	B,D,F,H,J	+75.0	-78.1	+75.0	-76.4	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
	G	+57.3	-57.3	+56.0	-56.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0	+55.0	-55.0

GLASS TYPES:				A. 3/16" ANNEALED				F. 13/16" I.G., 1/8"T, 9/16" AIR SPACE, 1/8"T			
TEST REPORTS: FTL-4860				B. 3/16" TEMPERED				G. 13/16" I.G., 3/16"A, 7/16" AIR SPACE, 3/16"A			
FTL-5005				C. 1/4" ANNEALED				H. 13/16" I.G., 3/16"T, 7/16" AIR SPACE, 3/16"T			
				D. 1/4" TEMPERED				I. 13/16" I.G., 3/16"A, 1/2" AIR SPACE, 1/8"A			
				E. 13/16" I.G., 1/8"A, 9/16" AIR SPACE, 1/8"A				J. 13/16" I.G., 3/16"T, 1/2" AIR SPACE, 1/8"T			

Revsd By:	Date:	Revisions:	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274			 <i>Visibly Better</i>	Description: DESIGN PRESSURES, XOX (1/3-1/3-1/3)				
Revsd By:	Date:	Revisions:					Title: ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT				
Revsd By:	Date:	Revisions:									
Drawn By: F.K.	Date: 2/27/06	Checked By: J.J.	Date: 3/22/06				Series/Model: HR610	Scale: NTS	Sheet: 3 of 12	Drawing No. 4127-20	Rev: E

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714-1A
Expiration Date July 27, 2021
By *Manuel Perez*
Miami Dade Product Control

ANTHONY LYNN MILLER

LICENSE

No. 58705

6/19/16

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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

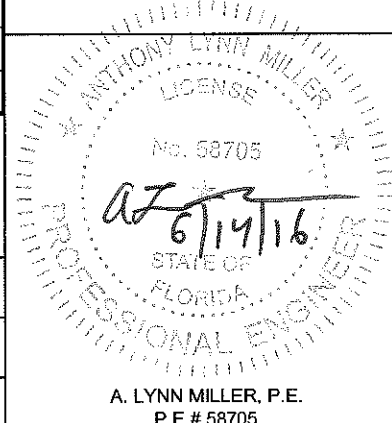
OX AND XO FLANGE OR INTEGRAL FIN WINDOWS (FLANGED SHOWN. FIN WINDOWS W/ SAME DLO ARE 1" SMALLER) TABLE 3.

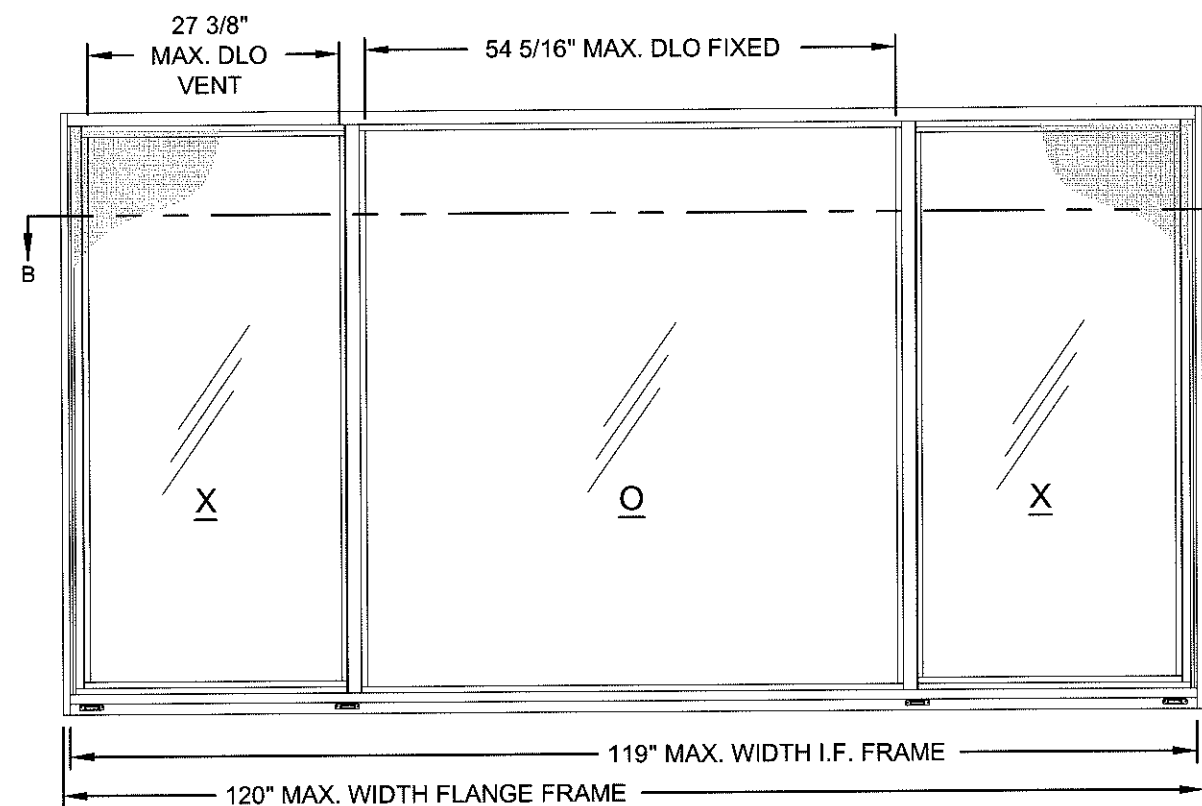
WINDOW WIDTH	GLASS TYPE	WINDOW HEIGHT																	
		24"		26"		36"		38 3/8"		48"		50 5/8"		54"		60"		63"	
24"	A,C,E,I	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-147.0	+75.0	-138.3	+75.0	-128.6	+75.0	-114.3	+75.0	-108.3
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0
26 1/2"	A,C,E,I	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-135.2	+75.0	-127.1	+75.0	-118.0	+75.0	-104.8	+75.0	-99.2
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0
37"	A,C,E,I	+75.0	-150.0	+75.0	-150.0	+75.0	-144.2	+75.0	-133.5	+75.0	-103.4	+75.0	-96.8	+75.0	-89.5	+75.0	-78.9	+74.5	-74.5
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-140.3	+75.0	-132.5
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-139.2	+75.0	-122.8	+75.0	-115.9
48"	A,C,E,I	+75.0	-107.0	+75.0	-107.0	+75.0	-107.0	+75.0	-107.0	+75.0	-85.3	+75.0	-79.9	+73.5	-73.5	+64.2	-64.2	+60.4	-60.4
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-142.1	+75.0	-130.7	+75.0	-114.3	+75.0	-107.6
	G	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-133.4	+75.0	-124.3	+75.0	-114.3	+75.0	-100.0	+75.0	-94.2
53 1/8"	A,C,E,I	+75.0	-88.1	+75.0	-87.3	+75.0	-87.3	+75.0	-87.3	+75.0	-79.7	+74.7	-74.7	+68.5	-68.5	+59.7	-59.7	+56.1	-56.1
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-142.8	+75.0	-132.8	+75.0	-121.8	+75.0	-106.1	+75.0	-99.7
	G	+75.0	-137.1	+75.0	-135.9	+75.0	-135.8	+75.0	-135.8	+75.0	-125.0	+75.0	-116.2	+75.0	-106.6	+75.0	-92.9	+75.0	-87.3
54"	A,C,E,I	+75.0	-85.6	+75.0	-84.6	+75.0	-84.5	+75.0	-84.5	+75.0	-78.9	+73.9	-73.9	+67.8	-67.8	+59.0	-59.0	+55.4	-55.4
	B,D,F,H,J	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-150.0	+75.0	-141.4	+75.0	-131.4	+75.0	-120.5	+75.0	-104.9	+75.0	-98.6
	G	+75.0	-133.1	+75.0	-131.6	+75.0	-131.5	+75.0	-131.5	+75.0	-123.7	+75.0	-115.0	+75.0	-105.4	+75.0	-91.8	+75.0	-86.2
60"	A,C,E,I	+71.3	-71.3	+69.7	-69.7	+68.5	-68.5	+68.5	-68.5	+68.5	-68.5	+68.5	-68.5	+63.3	-63.3	+54.9	-54.9	+51.5	-51.5
	B,D,F,H,J	+75.0	-126.8	+75.0	-123.9	+75.0	-121.7	+75.0	-121.7	+75.0	-121.7	+75.0	-121.7	+75.0	-112.6	+75.0	-97.6	+75.0	-91.5
	G	+75.0	-110.9	+75.0	-108.4	+75.0	-106.5	+75.0	-106.5	+75.0	-106.5	+75.0	-106.5	+75.0	-98.5	+75.0	-85.4	+75.0	-80.0
66"	A,C,E,I	+61.1	-61.1	+59.2	-59.2	+56.6	-56.6	+56.6	-56.6	+56.6	-56.6	+56.6	-56.6	+56.6	-56.6	+51.6	-51.6	+48.3	-48.3
	B,D,F,H,J	+75.0	-108.7	+75.0	-105.3	+75.0	-100.6	+75.0	-100.6	+75.0	-100.6	+75.0	-100.6	+75.0	-100.6	+75.0	-91.8	+75.0	-85.8
	G	+75.0	-95.1	+75.0	-92.1	+75.0	-88.0	+75.0	-88.0	+75.0	-88.0	+75.0	-88.0	+75.0	-88.0	+75.0	-80.3	+75.0	-75.1
72"	A,C,E,I	+53.5	-53.5	+51.5	-51.5	+47.5	-47.5	+47.5	-47.5	+47.5	-47.5	+47.5	-47.5	+47.5	-47.5	+47.5	-47.5	+45.7	-45.7
	B,D,F,H,J	+75.0	-95.1	+75.0	-91.6	+75.0	-84.5	+75.0	-84.5	+75.0	-84.5	+75.0	-84.5	+75.0	-84.5	+75.0	-84.5	+75.0	-81.3
	G	+75.0	-83.2	+75.0	-80.1	+73.9	-73.9	+73.9	-73.9	+73.9	-73.9	+73.9	-73.9	+73.9	-73.9	+73.9	-73.9	+71.1	-71.1
74"	A,C,E,I	+51.3	-51.3	+49.4	-49.4	+45.0	-45.0	+45.0	-45.0	+45.0	-45.0	+45.0	-45.0	+45.0	-45.0	+45.0	-45.0	+45.0	-45.0
	B,D,F,H,J	+75.0	-91.3	+75.0	-87.8	+75.0	-80.1	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0	+75.0	-80.0
	G	+75.0	-79.9	+75.0	-76.8	+70.1	-70.1	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0

GLASS TYPES: A. 3/16" ANNEALED				F. 13/16" I.G., 1/8"T, 9/16" AIR SPACE, 1/8"T			
TEST REPORTS: FTL-4857 B. 3/16" TEMPERED				G. 13/16" I.G., 3/16"A, 7/16" AIR SPACE, 3/16"A			
FTL-5005 C. 1/4" ANNEALED				H. 13/16" I.G., 3/16"T, 7/16" AIR SPACE, 3/16"T			
D. 1/4" TEMPERED				I. 13/16" I.G., 3/16"A, 1/2" AIR SPACE, 1/8"A			
E. 13/16" I.G., 1/8"A, 9/16" AIR SPACE, 1/8"A				J. 13/16" I.G., 3/16"T, 1/2" AIR SPACE, 1/8"T			

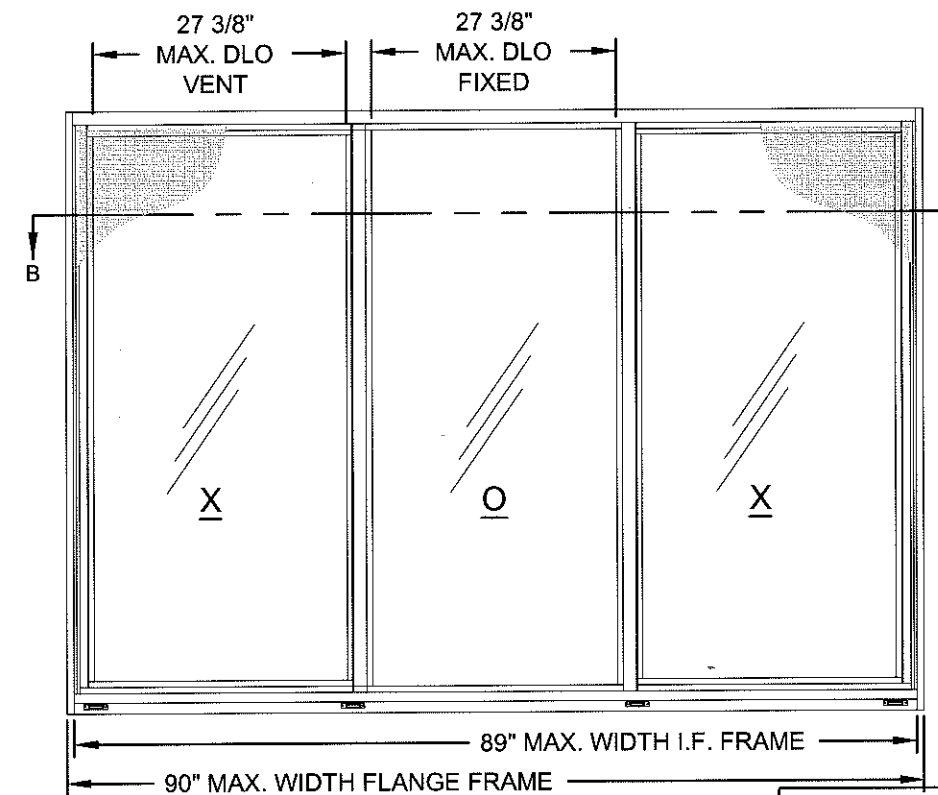
Revsd By:	Date:	Revisions:		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: DESIGN PRESSURES, OX AND XO WINDOWS			
Revsd By:	Date:	Revisions:				Title: ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT			
Revsd By:	Date:	Revisions:				Series/Model:	Scale:	Sheet:	Drawing No.
Drawn By:	Date:	Checked By:	Date:			HR610	NTS	4 of 12	4127-20
F.K.	2/27/06	J.J.	3/22/06						E

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714.14
Expiration Date July 27, 2021
By *Manuel Perez*
Miami Dade Product Control

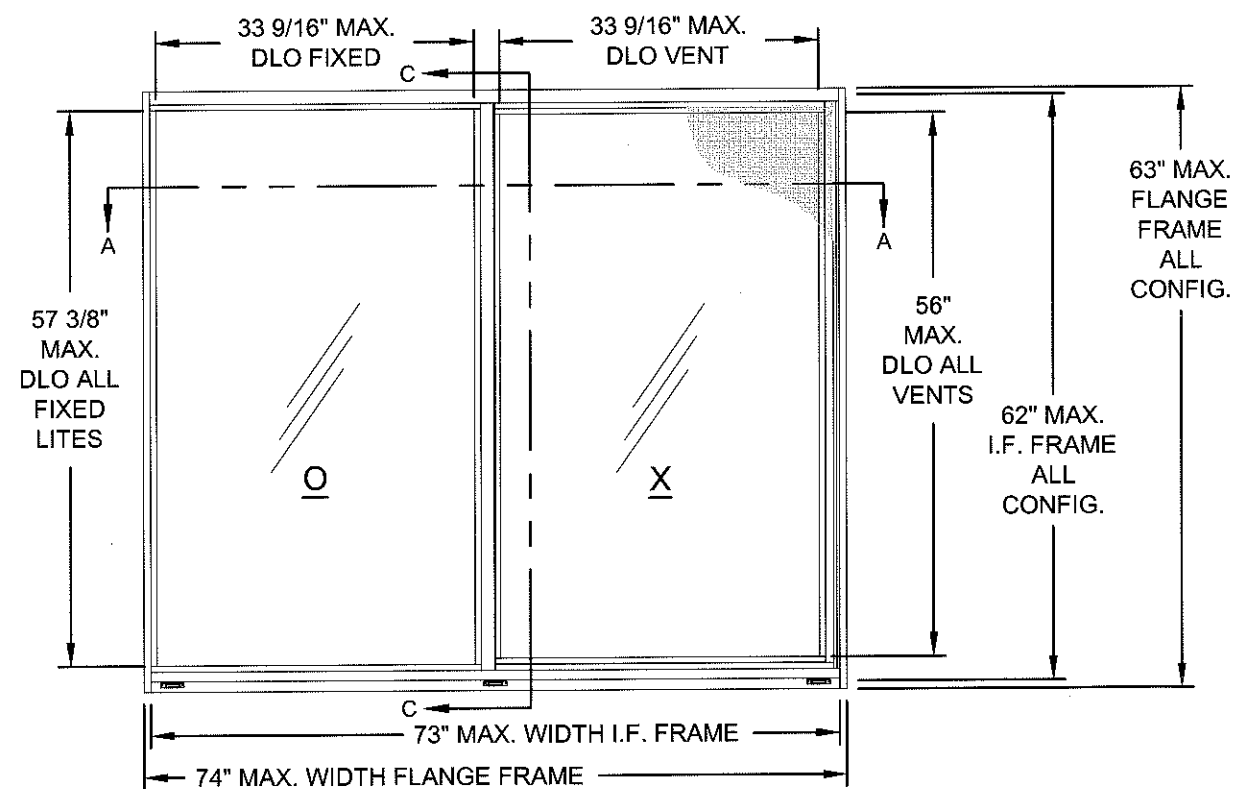




DETAIL B - XO (1/4-1/2-1/4)



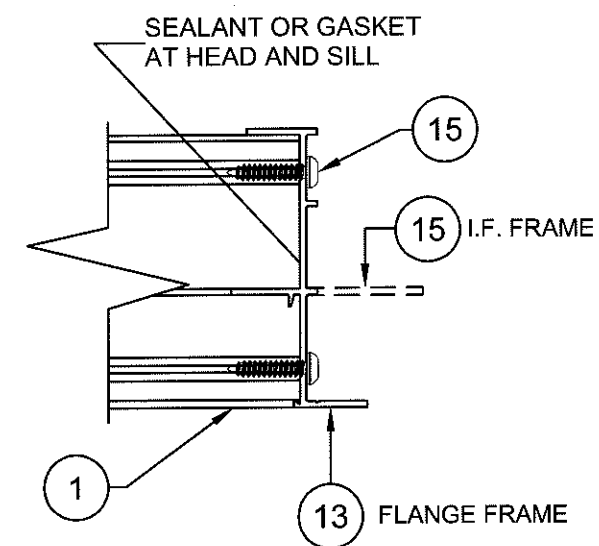
DETAIL C - XO (1/3-1/3-1/3)



DETAIL A - OX OR XO

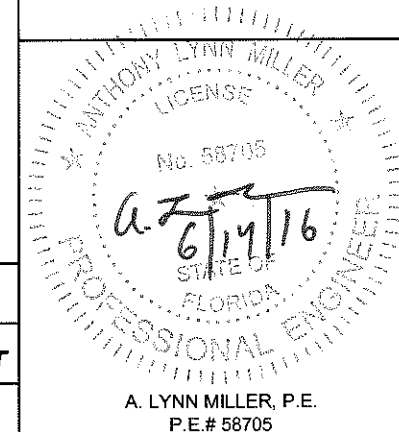
NOTE:

1. SEE SHEET 6 FOR VERTICAL AND HORIZONTAL SECTION DETAILS.



VIEW D-D
(FRAME CORNER CONSTRUCTION)

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Expiration Date July 27, 2021
By *Manuel Perez*
Miami Dade Product Control



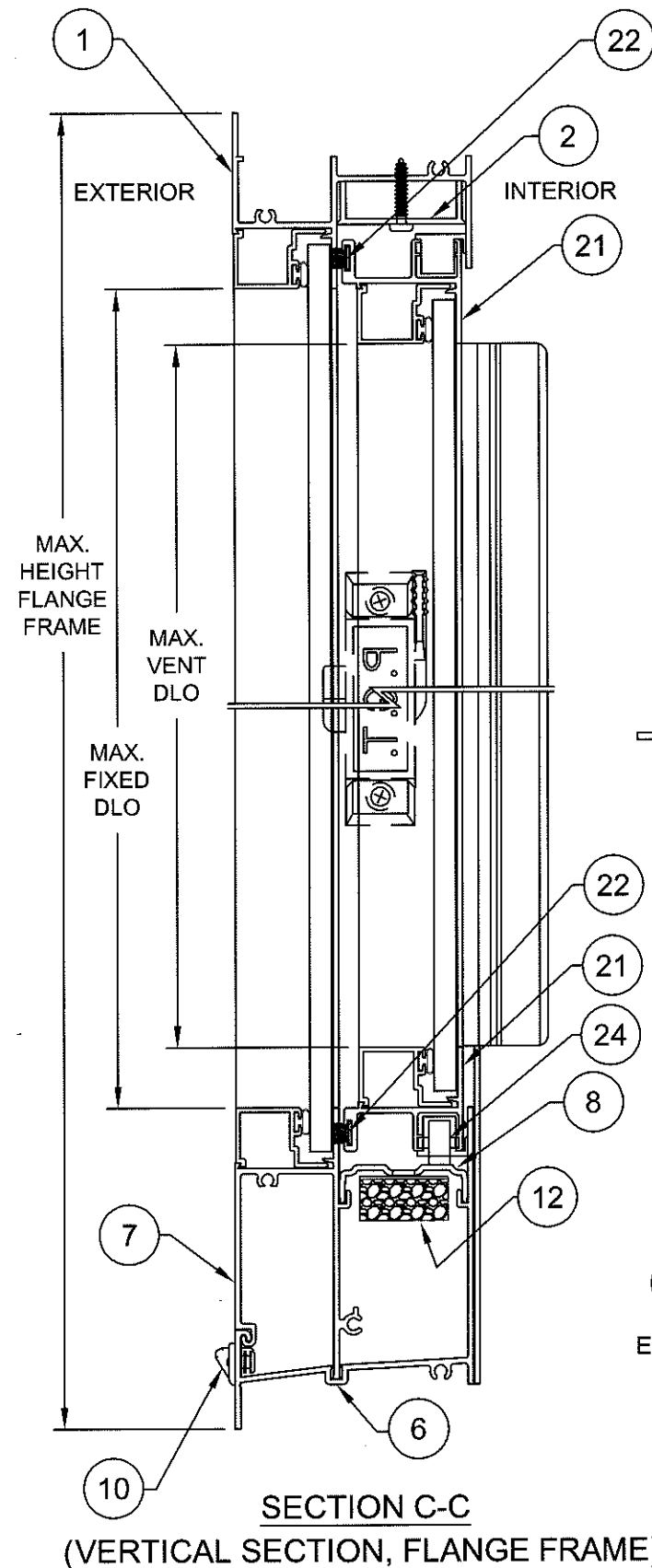
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	2/27/06	J.J.	3/22/06

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

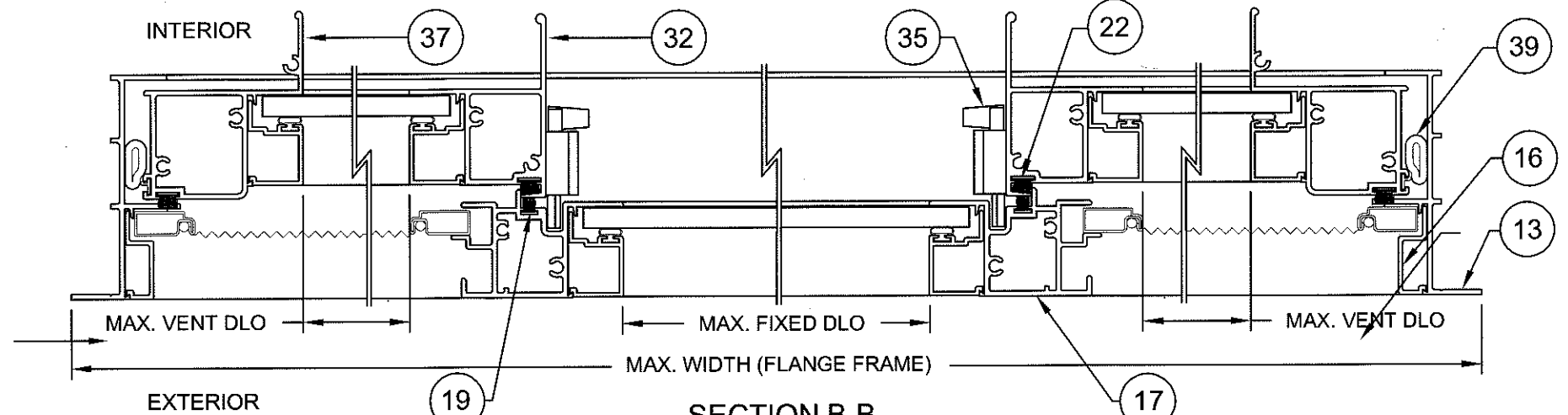


Description: ELEVATIONS				
Title: ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT				
Series/Model: HR610	Scale: NTS	Sheet: 5 of 12	Drawing No. 4127-20	Rev: E

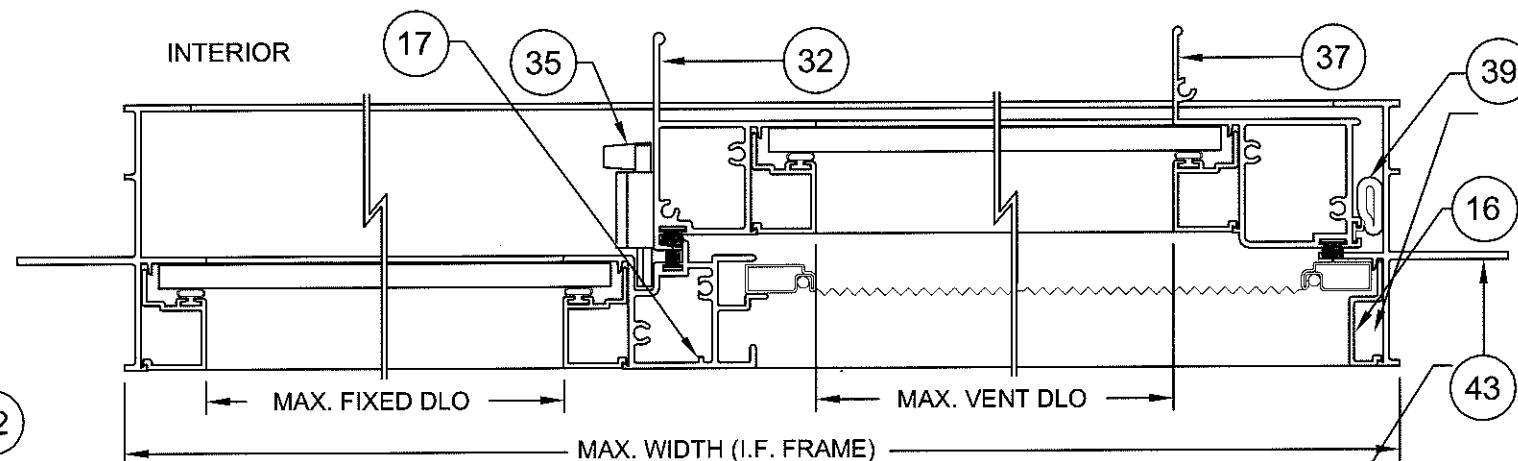
A. LYNN MILLER, P.E.
P.E.# 58705



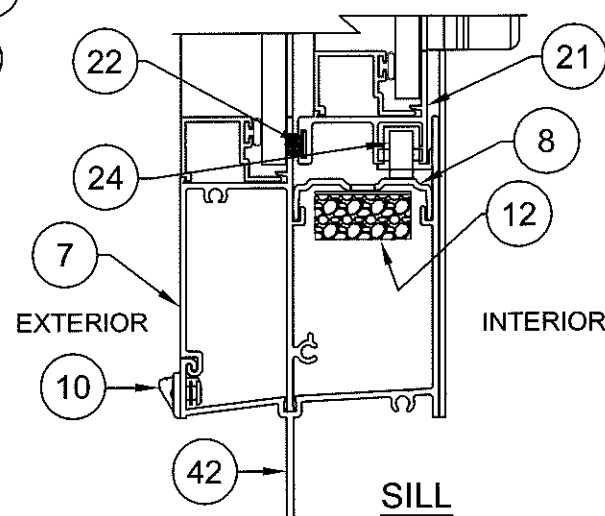
SECTION C-C
(VERTICAL SECTION, FLANGE FRAME)



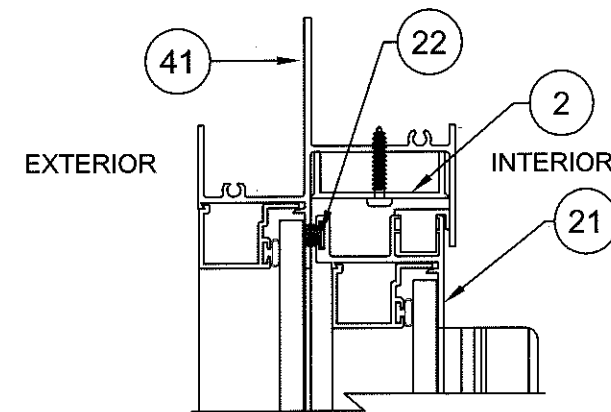
SECTION B-B
(HORIZONTAL SECTION - XOX SHOWN WITH FLANGE FRAME)



SECTION A-A
(HORIZONTAL SECTION - OX SHOWN WITH INTEGRAL FIN FRAME)



SILL
(VERTICAL SECTION, I.F. FRAME)



HEAD
(VERTICAL SECTION, I.F. FRAME)

Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Drawn By:	Date:	Checked By:
F.K.	2/27/06	J.J. 3/22/06

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

PGT
Visibly Better

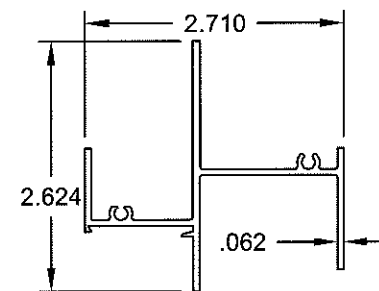
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Title:	ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT				
Series/Model:	HR610	Scale:	Half	Sheet:	6 of 12
Drawing No.	4127-20	Rev:	E		

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Building Code
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Expiration Date July 27, 2021
By *Manuel Perez*
Miami Dade Product Control

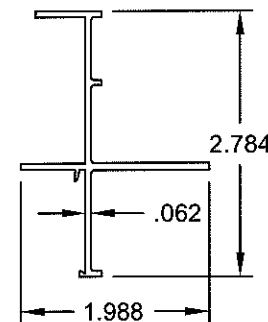
ANTHONY LYNN MILLER
LICENSE
No. 58705
6/14/16
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

ITEM	DWG#	REV	DESCRIPTION	MAT'L	PGT#
1	4102	A	FLANGE FRAME HEAD	6063-T6 AL	612237
2	4025		SASH STOP (STD.) (ANTI LIFT CLIP)	6063-T5 AL	612244
3			#8 X 3/4 PH. PAN HEAD		7834AA
4	4053		SASH STOP COVER (SASH STOP)	6063-T5 AL	
6	4136		FLANGE FRAME SILL	6063-T6 AL	64136
7	4137		SILL ADAPTOR	6063-T6 AL	64137
8	4131		ROLLER TRACK	6063-T6 AL	64131
10	71298		WEEP HOLE COVER	POLYPROP.	71298
12	1626		ADHESIVE OPEN CELL FOAM PAD		7PAD1626
13	4002	A	FLANGE FRAME JAMB	6063-T6 AL	612225
14	4134		GASKET FOR MAIN FRAME SILL JOINT		74134W/K
15	1155		#8 X 1.000 QUAD PN. SMS		781PQA
16	4110	G	SCREEN ADAPTOR	6063-T5 AL	64110G
17	4054	B	FIXED MEETING RAIL	6063HD-T6 AL	64054A
19	4066		WSTP.,.187 X .230, FIN SEAL		64066G
21	4105		SASH TOP AND BOTTOM RAIL	6063-T5 AL	612240
22	1683		WSTP.,.250 X .270 BACK, FIN SEAL		61683G
23	225-1		ROLLER HOUSING & GUIDE		42112HD
24	226		BRASS ROLLER WHEELS	BRASS	7BRWHL2
29	4128		HORIZONTAL ROLLER SASH TOP GUIDE	POLYPROP.	44128N
32	4006	D	SASH MEETING RAIL	6063HS-T6 AL	64006
33	1235		WSTP.,.170 X .270 BACK, FIN SEAL		67S16G
35	1096		SWEEP LATCH	DIE-CAST	71096
36	1016		#8 X .625 PH. FL. SMS		7858
37	4126		SASH SIDE RAIL	6063-T5 AL	64126
39	7070		BULB WEATHERSTRIP .187 X .275		67070K
40			LIFT RAIL COVER CAP		74078"C" L OR R
41	4139		I.F. FRAME HEAD	6063-T6 AL	64139
42	4140		I.F. FRAME SILL	6063-T6 AL	64140
43	4141		I.F. FRAME JAMB	6063-T6 AL	64141
50			GLAZING SILICONE, DOW 899, 995 OR EQUIVALENT		
51	1224		VINYL GLAZING BEAD BULB (THICK)		6TP247W,K
52	1225		VINYL GLAZING BEAD BULB (THIN)		6TP248K
57	4014	B	GLAZING BEAD - 3/16" & 1/4"		64014
58	4046	A	GLAZING BEAD - 3/16" & 1/4" W/ GRILL KI	6063-T5 AL	644842
59	4067		GLAZING BEAD - 13/16"	6063-T5 AL	64067
80	GLASS		3/16" ANNEALED		
81	"		3/16" TEMPERED		
82	"		1/4" ANNEALED		
83	"		1/4" TEMPERED		

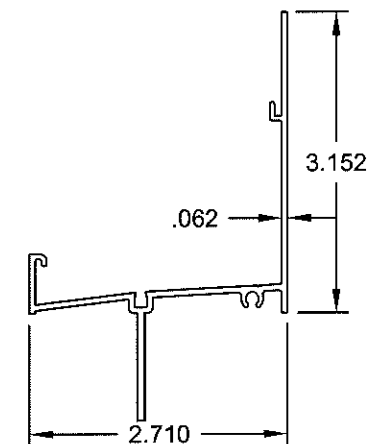
ITEM	DWG#	REV	DESCRIPTION	MAT'L	PGT#
84	GLASS		13/16" IG (1/8" ANNEALED, 9/16" AIR SPACE, 1/8" ANNEALED)		
85	"		13/16" IG (1/8" TEMPERED, 9/16" AIR SPACE, 1/8" TEMPERED)		
86	"		13/16" IG (3/16" ANNEALED, 7/16" AIR SPACE, 3/16" ANNEALED)		
87	"		13/16" IG (3/16" TEMPERED, 7/16" AIR SPACE, 3/16" TEMPERED)		
88	"		13/16" IG (3/16" ANNEALED, 1/2" AIR SPACE, 1/8" ANNEALED)		
89	"		13/16" IG (3/16" TEMPERED, 1/2" AIR SPACE, 1/8" TEMPERED)		
90	1014		SCREEN FRAME (HOR. & VER.)	3105-H14 AL	61014
91	1630		SCREEN CORNER KEY W/RINGS	POLYPROP.	71630
92	1631		SCREEN CORNER KEY W/OUT RINGS	POLYPROP.	71631
93	1073		SCREEN SPRING	ST.ST.	7CASP
94	1624		SCREEN SPLINE - .135 DIA. FOAM	EM PVC	61624K
95	1635		SCREEN SPLINE - .135 DIA. HARD	EM PVC	61635K
96			SCREEN	CLOTH	61816



41 I.F. FRAME HEAD
#4139, 6063-T6

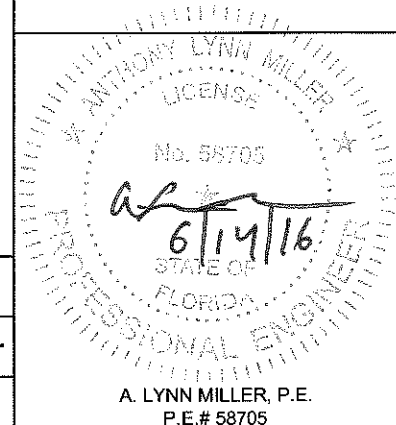


43 I.F. FRAME JAMB
#4141, 6063-T6



42 I.F. FRAME SILL
#4140, 6063-T6

PRODUCT REVISED
as complying with the Florida
Building Code
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By *Manuel Diaz*
Miami Dade Product Control



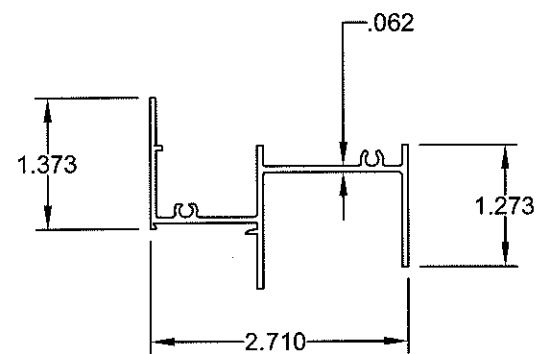
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	2/27/06	J.J.	3/22/06

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

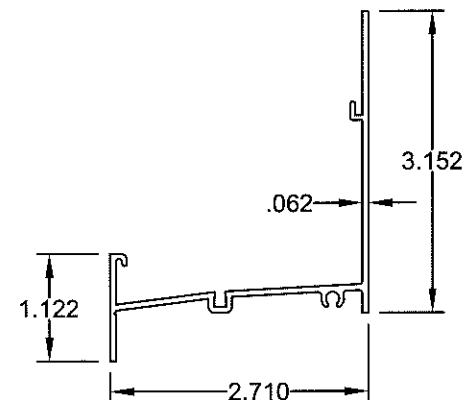
P.O. BOX 1529
NOKOMIS, FL 34274



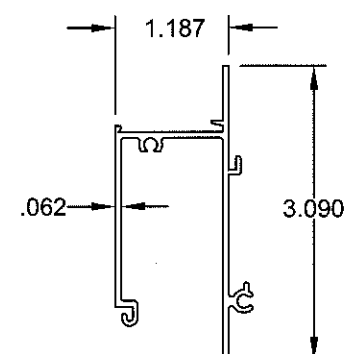
Description:	PARTS LIST				
Title:	ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT				
Series/Model:	HR610	Scale:	NTS	Sheet:	7 of 12
Drawing No.	4127-20	Rev:	E		



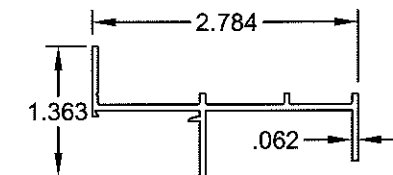
1 **FLANGE FRAME HEAD**
#4102A, 6063-T6



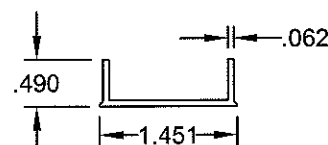
6 **FLANGE FRAME SILL**
#4136, 6063-T6



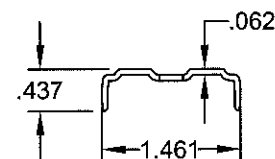
7 **FRAME SILL ADAPTER**
#4137, 6063-T6



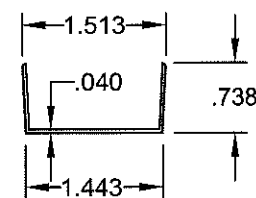
13 **FLANGE FRAME JAMB**
#4002A, 6063-T6



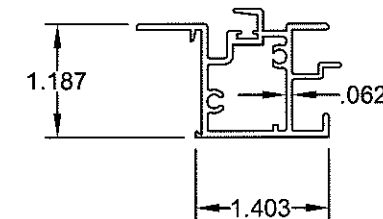
2 **SASH STOP**
#4025, 6063-T5



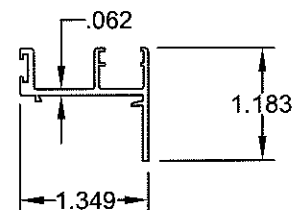
8 **ROLLER TRACK**
#4131, 6063-T6



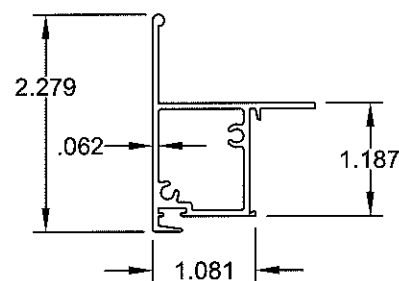
4 **SASH STOP COVER**
#4053, 6063-T5



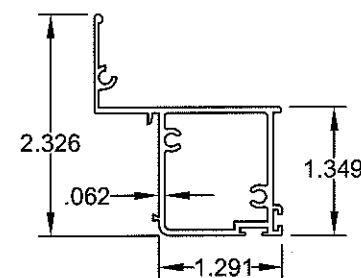
17 **FIXED MEETING RAIL**
#4054B, 6063HD-T6



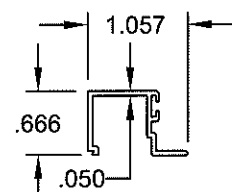
21 **SASH TOP & BOTTOM RAIL**
#4105, 6063-T5



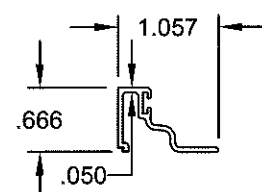
32 **SASH MTG. RAIL**
#4006D, 6063HS-T6



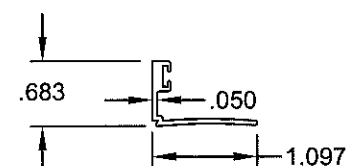
37 **SASH SIDE RAIL**
#4126, 6063-T5



57 **GLAZING BEAD 3/16" OR 1/4"**
#4014B, 6063-T5

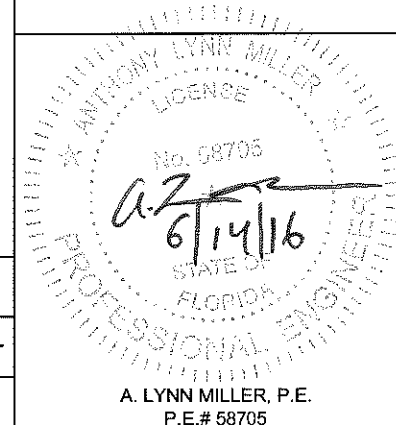


58 **GLAZING BEAD 3/16" OR 1/4"**
#4046A, 6063-T5
(USED W/ GRILL KIT)



59 **GLAZING BEAD, 13/16"**
#4067, 6063-T5

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714, 14
Expiration Date July 27, 2021
By *Manuel Perez*
Miami Dade Product Control



Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Drawn By:	Date:	Checked By:
F.K.	2/27/06	J.J.

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



Description: EXTRUSIONS			
Title: ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT			
Series/Model: HR610	Scale: Half	Sheet: 8 of 12	Drawing No. 4127-20
Rev: E			

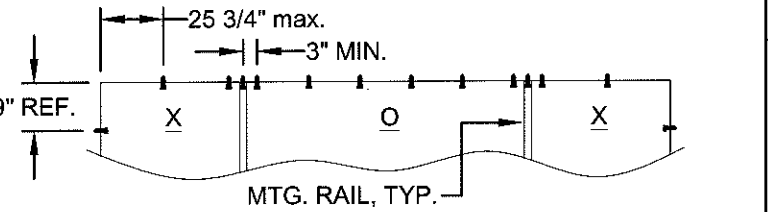
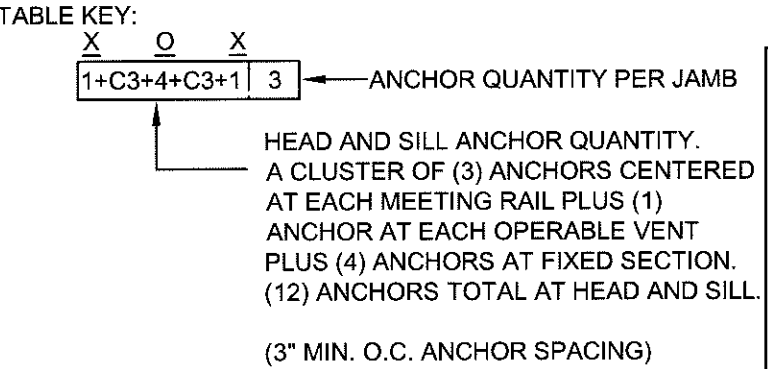
A. LYNN MILLER, P.E.
P.E.# 58705

ANCHOR QUANTITIES, XOx (1/4-1/2-1/4) FLANGE FRAME WINDOWS											TABLE 4	
ANCHOR TYPE > & SUBSTRATE	GLASS TYPES A,C,E,I						GLASS TYPES B,D,F,G,H,J					
	2,3, WOOD		2, CONC		1, CONC		2,3, WOOD		2, CONC		1, CONC	
	ZONES		ZONES		ZONES		ZONES		ZONES		ZONES	
WINDOW SIZE W V H	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS
53.125 x 38.375	1+C2+1+C2+1	2	1+C3+1+C3+1	2	1+C3+1+C3+1	2	1+C3+2+C3+1	2	1+C3+2+C3+1	2	1+C3+2+C3+1	2
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3	1+C4+2+C4+1	3
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C3+1+C3+1	3	1+C4+2+C4+1	3
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C3+1+C3+1	3	1+C4+2+C4+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	3	1+C4+2+C4+1	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	3	1+C4+1+C4+1	3
60.000 x 38.375	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C3+1+C3+1	2	1+C3+2+C3+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	2
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3	1+C4+2+C4+1	3
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3	1+C4+2+C4+1	3
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3	1+C4+2+C4+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C3+1+C3+1	3	1+C4+2+C4+1	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C3+1+C3+1	3	1+C4+2+C4+1	3
74.000 x 38.375	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C3+2+C3+1	2	1+C3+3+C3+1	2	1+C2+2+C2+1	2	1+C3+3+C3+1	2
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+2+C2+1	3	1+C3+3+C3+1	3	1+C3+2+C3+1	3	1+C4+3+C4+1	3
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+2+C2+1	3	1+C3+3+C3+1	3	1+C3+2+C3+1	3	1+C4+3+C4+1	3
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+2+C2+1	3	1+C4+2+C4+1	3	1+C3+2+C3+1	3	1+C4+3+C4+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C4+2+C4+1	3	1+C3+2+C3+1	3	1+C5+2+C5+1	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3	1+C4+2+C4+1	3
84.000 x 38.375	1+C2+2+C2+1	2	1+C2+1+C2+1	2	1+C3+2+C3+1	2	1+C2+4+C2+1	2	1+C2+3+C2+1	2	1+C3+5+C3+1	2
48.000	1+C2+2+C2+1	3	1+C2+1+C2+1	3	1+C2+2+C2+1	3	1+C3+3+C3+1	3	1+C3+2+C3+1	3	1+C4+4+C4+1	3
50.625	1+C2+2+C2+1	3	1+C2+1+C2+1	3	1+C2+2+C2+1	3	1+C3+3+C3+1	3	1+C3+2+C3+1	3	1+C4+4+C4+1	3
54.000	1+C2+2+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C4+3+C4+1	3	1+C3+2+C3+1	3	1+C4+3+C4+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C4+2+C4+1	3	1+C3+2+C3+1	3	1+C5+3+C5+1	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+2+C3+1	3	1+C4+2+C4+1	3	1+C3+2+C3+1	3	1+C5+3+C5+1	3
106.375 x 38.375	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	2	1+C2+4+C2+1	2
48.000	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+3+C2+1	3	1+C4+4+C4+1	3	1+C3+3+C3+1	3	1+C4+4+C4+1	3
50.625	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+3+C2+1	3	1+C4+4+C4+1	3	1+C3+3+C3+1	3	1+C4+4+C4+1	3
54.000	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C3+3+C3+1	3	1+C4+4+C4+1	4	1+C4+3+C4+1	3	1+C4+4+C4+1	3
60.000	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C3+2+C3+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	3	1+C5+4+C5+1	3
63.000	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C3+2+C3+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	3	1+C5+4+C5+1	3
120.000 x 38.375	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	2	2+C2+4+C2+2	2
48.000	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+3+C2+1	3	1+C3+4+C3+1	3	1+C2+3+C2+1	3	2+C4+4+C4+2	3
50.625	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+3+C2+1	3	1+C4+4+C4+1	3	1+C3+3+C3+1	3	2+C4+5+C4+2	3
54.000	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+3+C2+1	3	1+C4+4+C4+1	4	1+C3+3+C3+1	3	2+C4+5+C4+2	3
60.000	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C3+3+C3+1	3	1+C4+4+C4+1	4	1+C4+3+C4+1	3	2+C5+5+C5+2	3
63.000	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C3+3+C3+1	3	1+C4+4+C4+1	4	1+C4+3+C4+1	3	2+C5+5+C5+2	4

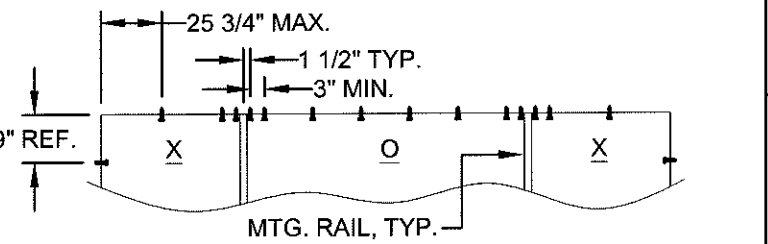
NOTES:

1. ANCHOR TYPES:
1 - 1/4" ELCO TAPCONS 2 - 1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREWS (G5)
2. GLASS TYPES:
A. 3/16" ANNEALED GLASS
B. 3/16" TEMPERED GLASS
C. 1/4" ANNEALED GLASS
D. 1/4" TEMPERED GLASS
E. 13/16" I.G., 1/8" ANNEALED, 9/16" AIR SPACE, 1/8" ANNEALED
F. 13/16" I.G., 1/8" TEMPERED, 9/16" AIR SPACE, 1/8" TEMPERED
G. 13/16" I.G., 3/16" ANNEALED, 7/16" AIR SPACE, 3/16" ANNEALED
H. 13/16" I.G., 3/16" TEMPERED, 7/16" AIR SPACE, 3/16" TEMPERED
I. 13/16" I.G., 3/16" ANNEALED, 1/2" AIR SPACE, 1/8" ANNEALED
J. 13/16" I.G., 3/16" TEMPERED, 1/2" AIR SPACE, 1/8" TEMPERED
3. WINDOW ANCHOR QUANTITIES ARE PER ADJACENT TABLE AND BASED ON THE FOLLOWING DIMENSIONS. FOR WINDOW SIZES NOT SHOWN, GO TO NEXT LARGER WINDOW IN TABLE.

HEAD & SILL: 10 1/2" MAX. ON EACH SIDE OF MEETING RAIL CENTERLINE.
25 3/4" MAX. FROM CORNERS.
JAMBS: 9" MAX. FROM CORNERS AND 22 1/2" MAX. O.C.



EXAMPLE CLUSTER W/ QTY. OF (3) ANCHORS (SHOWN IN TABLE KEY ABOVE)



EXAMPLE CLUSTER W/ QTY. OF (4) ANCHORS

ANCHOR QUANTITIES, XOX (1/3-1/3-1/3) FLANGE FRAME WINDOWS TABLE 5

ANCHOR TYPE & SUBSTRATE	GLASS TYPES A,C,E,I						GLASS TYPES B,D,F,G,H,J					
	2,3, WOOD		2, CONC		1, CONC		2,3, WOOD		2, CONC		1, CONC	
	ZONES		ZONES		ZONES		ZONES		ZONES		ZONES	
WINDOW SIZE W x V x H	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS
48.000 x 38.375	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	2	1+C3+1+C3+1	3
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	3
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
53.125 x 38.375	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	2	1+C3+1+C3+1	3
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
60.000 x 38.375	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C3+1+C3+1	3	1+C2+1+C2+1	2	1+C3+1+C3+1	3
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
66.000 x 38.375	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C3+1+C3+1	3	1+C2+1+C2+1	2	2+C3+2+C3+2	3
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
74.000 x 38.375	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	2	2+C3+2+C3+2	3
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	2+C3+2+C3+2	3
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	2+C4+2+C4+2	4
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	3
84.000 x 38.375	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	2	2+C2+2+C2+2	3
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C2+1+C2+1	3	2+C3+2+C3+2	3
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C2+1+C2+1	3	2+C3+2+C3+2	3
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	2+C3+2+C3+2	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	2+C4+2+C4+2	4
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
90.000 x 38.375	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	2	2+C2+2+C2+2	2
48.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	2+C3+2+C3+2	3
50.625	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C2+1+C2+1	3	2+C3+2+C3+2	3
54.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C2+1+C2+1	3	2+C3+2+C3+2	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	2+C4+2+C4+2	3
63.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	2+C4+2+C4+2	4

NOTES:

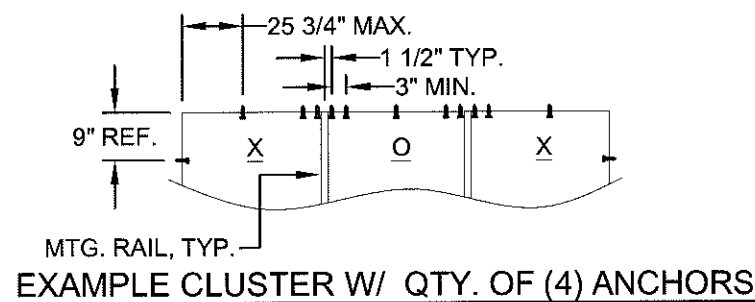
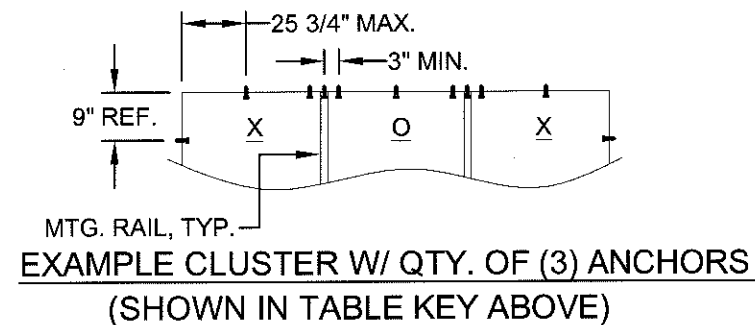
- ANCHOR TYPES:
1 - 1/4" ELCO TAPCONS 2 - 1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREWS (G5)
- GLASS TYPES:
A. 3/16" ANNEALED GLASS
B. 3/16" TEMPERED GLASS
C. 1/4" ANNEALED GLASS
D. 1/4" TEMPERED GLASS
E. 13/16" I.G., 1/8" ANNEALED, 9/16" AIR SPACE, 1/8" ANNEALED
F. 13/16" I.G., 1/8" TEMPERED, 9/16" AIR SPACE, 1/8" TEMPERED
G. 13/16" I.G., 3/16" ANNEALED, 7/16" AIR SPACE, 3/16" ANNEALED
H. 13/16" I.G., 3/16" TEMPERED, 7/16" AIR SPACE, 3/16" TEMPERED
I. 13/16" I.G., 3/16" ANNEALED, 1/2" AIR SPACE, 1/8" ANNEALED
J. 13/16" I.G., 3/16" TEMPERED, 1/2" AIR SPACE, 1/8" TEMPERED
- WINDOW ANCHOR QUANTITIES ARE PER ADJACENT TABLE AND BASED ON THE FOLLOWING DIMENSIONS. FOR WINDOW SIZES NOT SHOWN, GO TO NEXT LARGER WINDOW IN TABLE.

HEAD & SILL: 10 1/2" MAX. ON EACH SIDE OF MEETING RAIL CENTERLINE
25 3/4" MAX. FROM CORNERS
JAMBS: 9" MAX. FROM CORNERS AND 22 1/2" MAX. O.C.

TABLE KEY:

$\frac{X}{1+C3+1+C3+1}$ $\frac{O}{3}$ $\frac{X}{3}$ ← ANCHOR QUANTITY PER JAMB

HEAD AND SILL ANCHOR QUANTITIES
A CLUSTER OF (3) ANCHORS CENTERED
ON EACH MEETING RAIL PLUS (1)
ANCHOR AT EACH OPERABLE VENT
PLUS (1) ANCHORS AT FIXED SECTION.
(9) ANCHORS TOTAL AT HEAD AND SILL.
(3" MIN. O.C. ANCHOR SPACING)



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714-14
Expiration Date July 21, 2021
By *Manuel Perez*
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	2/27/06	J.J.	3/22/06

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

PGT
Visibly Better

Description:	ANCHORAGE SPACING, XOX (1/3-1/3-1/3)					
Title:	ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT					
Series/Model:	HR610	Scale:	NTS	Sheet:	10 of 12	Drawing No.
					4127-20	Rev:
						E

ANCHOR QUANTITIES FOR XO AND OX FLANGE FRAME WINDOWS - TABLE 6

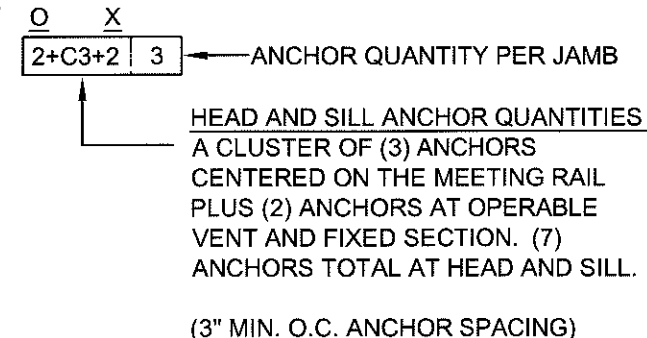
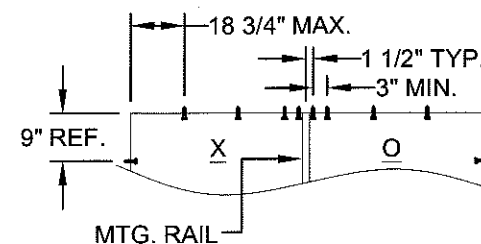
ANCHOR TYPE & SUBSTRATE	WINDOW SIZE W v H	GLASS TYPES A,C,E,I						GLASS TYPES B,D,F,G,H,J					
		2,3, WOOD		2, CONC		1, CONC		2,3, WOOD		2, CONC		1, CONC	
		ZONES		ZONES		ZONES		ZONES		ZONES		ZONES	
		HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS
26.500 x 38.375	48.000	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1	2
	50.625	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3
	54.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3
	60.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	4	1+C3+1	3	1+C3+1	3
	63.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	4	1+C3+1	3	1+C4+1	3
37.000 x 38.375	48.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	4	1+C3+1	3	1+C4+1	4
	50.625	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	4	1+C3+1	3	1+C4+1	4
	54.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C4+1	4	1+C3+1	3	1+C4+1	4
	60.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C4+1	4	1+C3+1	3	1+C5+1	4
	63.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C4+1	4	1+C3+1	3	1+C5+1	4
48.000 x 38.375	48.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C3+2	4	1+C3+1	3	2+C3+2	4
	50.625	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	1+C3+1	3	2+C4+2	5
	54.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	1+C3+1	3	2+C5+2	5
	60.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C4+1	5	1+C3+1	3	2+C5+2	4
	63.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C4+1	5	1+C3+1	3	1+C5+1	4
53.125 x 38.375	48.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C3+2	4	2+C3+2	3	2+C4+2	4
	50.625	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	2+C3+2	3	2+C5+2	5
	54.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	1+C3+1	3	2+C5+2	5
	60.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C4+1	5	1+C3+1	3	2+C5+2	4
	63.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C4+1	5	1+C3+1	3	2+C5+2	4
60.000 x 38.375	48.000	1+C3+1	2	1+C3+1	2	1+C3+1	2	2+C3+2	4	2+C3+2	3	2+C3+2	3
	50.625	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	2+C3+2	3	2+C4+2	4
	54.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	2+C3+2	3	2+C5+2	5
	60.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	1+C3+1	3	2+C5+2	5
	63.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	1+C3+1	3	2+C5+2	5
66.000 x 38.375	48.000	1+C3+1	2	1+C3+1	2	1+C3+1	2	2+C3+2	4	2+C3+2	3	2+C3+2	3
	50.625	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C3+2	5	2+C3+2	3	2+C4+2	4
	54.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	2+C3+2	3	2+C4+2	5
	60.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	2+C3+2	3	2+C5+2	5
	63.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	1+C3+1	3	2+C5+2	5
74.000 x 38.375	48.000	1+C3+1	2	1+C3+1	2	1+C3+1	2	2+C3+2	3	2+C3+2	2	2+C3+2	3
	50.625	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C3+2	4	2+C3+2	3	2+C3+2	4
	54.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C3+2	5	2+C3+2	3	2+C4+2	4
	60.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	2+C3+2	3	2+C4+2	5
	63.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	2+C4+2	5	2+C3+2	4	2+C5+2	5

NOTES:

- ANCHOR TYPES:
1 - 1/4" ELCO TAPCONS 2 - 1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREWS (G5)
- GLASS TYPES:
A. 3/16" ANNEALED GLASS
B. 3/16" TEMPERED GLASS
C. 1/4" ANNEALED GLASS
D. 1/4" TEMPERED GLASS
E. 13/16" I.G., 1/8" ANNEALED, 9/16" AIR SPACE, 1/8" ANNEALED
F. 13/16" I.G., 1/8" TEMPERED, 9/16" AIR SPACE, 1/8" TEMPERED
G. 13/16" I.G., 3/16" ANNEALED, 7/16" AIR SPACE, 3/16" ANNEALED
H. 13/16" I.G., 3/16" TEMPERED, 7/16" AIR SPACE, 3/16" TEMPERED
I. 13/16" I.G., 3/16" ANNEALED, 1/2" AIR SPACE, 1/8" ANNEALED
J. 13/16" I.G., 3/16" TEMPERED, 1/2" AIR SPACE, 1/8" TEMPERED
- WINDOW ANCHOR QUANTITIES ARE PER ADJACENT TABLE AND BASED ON THE FOLLOWING DIMENSIONS. FOR WINDOW SIZES NOT SHOWN, GO TO NEXT LARGER WINDOW IN TABLE.

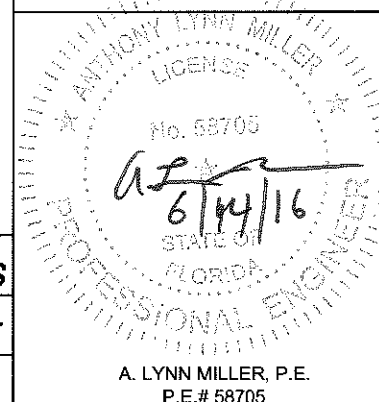
HEAD & SILL: 10 1/2" MAX. ON EACH SIDE OF MEETING RAIL CENTERLINE.
18 3/4" MAX. FROM CORNERS.
JAMBS: 9" MAX. FROM CORNERS AND 22 1/2" MAX. O.C.

TABLE KEY:

EXAMPLE CLUSTER W/ QTY. OF (3) ANCHORS
(SHOWN IN TABLE KEY ABOVE)

EXAMPLE CLUSTER W/ QTY. OF (4) ANCHORS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714-14
Expiration Date July 27, 2021
By *Manuel Perez*
Miami Dade Product Control



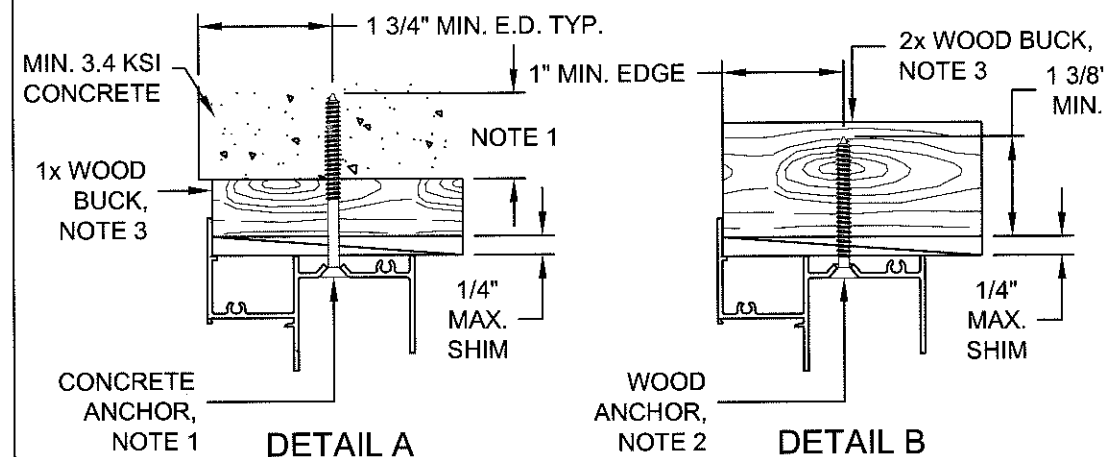
Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Drawn By:	Date:	Checked By:
F.K.	2/27/06	J.J.

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

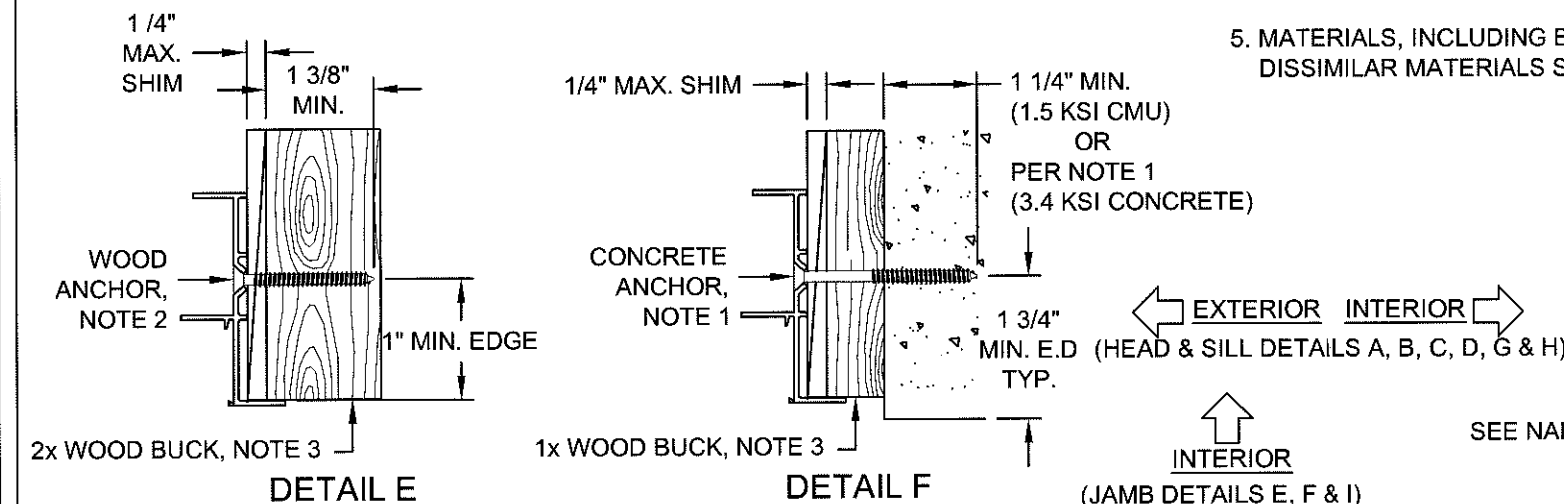
PGT
Visibly Better

Description: ANCHORAGE SPACING, XO AND OX WINDOWS						
Title: ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT						
Series/Model: HR610	Scale: NTS	Sheet: 11 of 12	Drawing No. 4127-20	Rev: E		

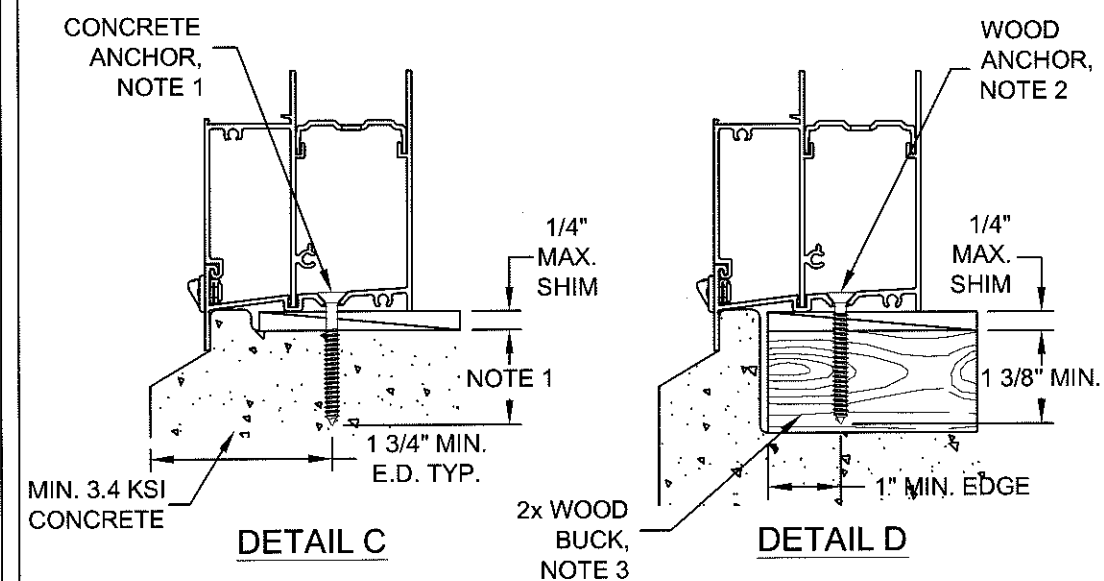
A. LYNN MILLER, P.E.
P.E.# 58705



TYPICAL FLANGE FRAME HEAD SECTIONS



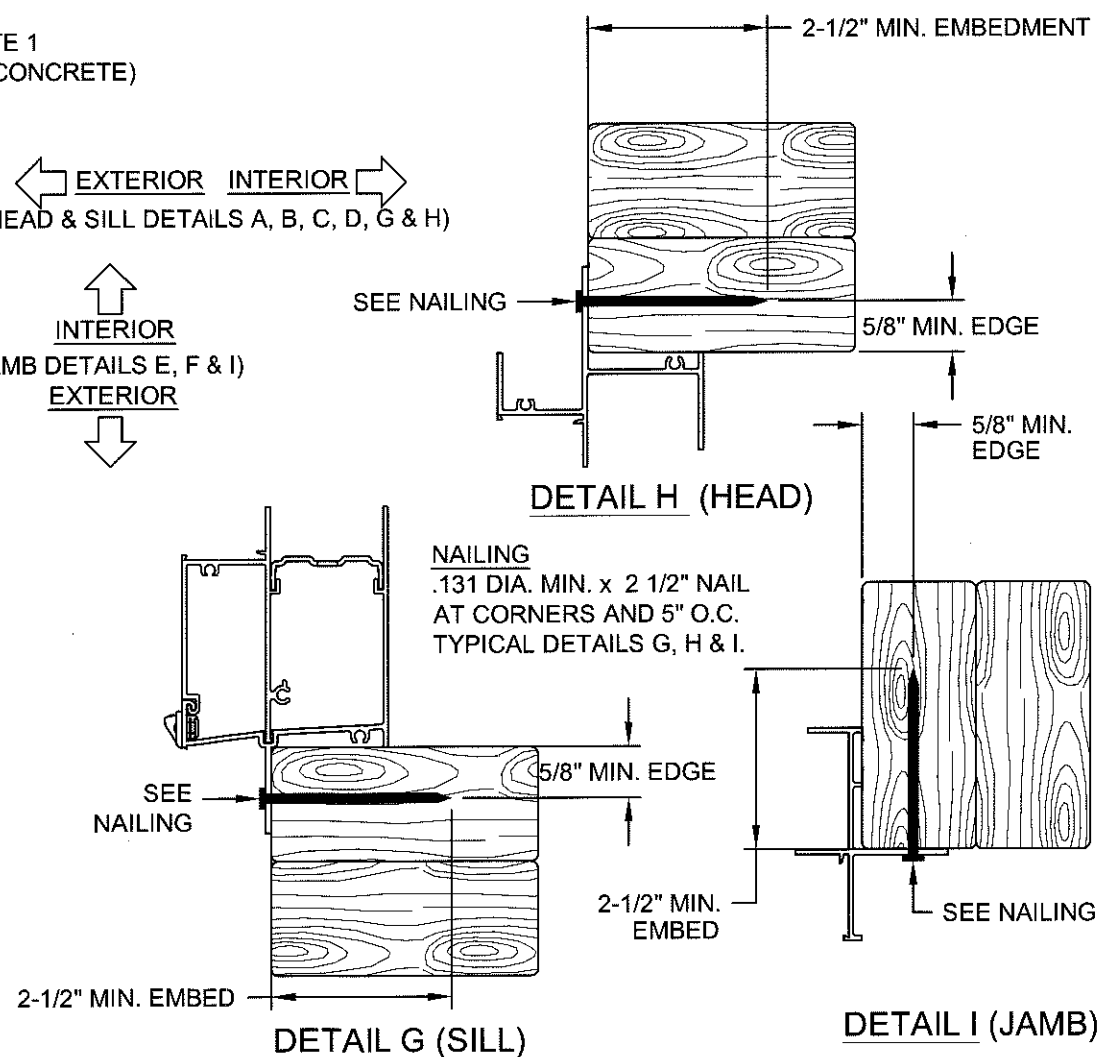
TYPICAL FLANGE FRAME JAMB SECTIONS



TYPICAL FLANGE FRAME SILL SECTIONS

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 1/4" ELCO TAPCONS EMBEDDED 1 3/8" MIN. OR 1/4" SS4 CRETE-FLEX EMBEDDED 1 3/4" MIN.. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4". FLATHEAD ANCHORS MUST BE #12 TRIMFIT HEAD.
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 STEEL SCREWS (G5) OR 1/4" SS4 CRETE-FLEX WITH #12 TRIMFIT HEAD.
3. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
4. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR ANCHOR TYPE 2 MAY BE USED.
5. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.



TYPICAL INTEGRAL FIN FRAME SECTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714.14
Expiration Date July 27, 2021
By *Manuel Perez*
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
A-2
6/14/16
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

Revsd By:	Date:	Revisions:	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	PGT Visibly Better	Description: ANCHORAGE DETAILS				
Revsd By:	Date:	Revisions:			Title: ALUM. HORIZONTAL ROLLER WINDOW, NON-IMPACT				
Revsd By:	Date:	Revisions:			Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
Drawn By: F.K.	Date: 2/27/06	Checked By: J.J.	Date: 3/22/06		HR610	NTS	12 of 12	4127-20	E