



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-710" Aluminum Horizontal Rolling Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 4127-10, titled "Alum. Horizontal Roller Window, Impact", sheets 1 through 11 of 11, dated 02/28/06, with revision G 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: 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# 15-0519.09 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.**



MP
8/22/16

NOA No. 16-0714.13
Expiration Date: December 21, 2021
Approval Date: September 01, 2016
Page 1

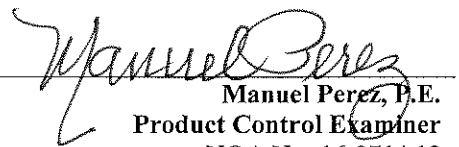
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA's No. 07-0815.09 and 06-0405.06)
2. Drawing No. **4127-10**, titled "Alum. Horizontal Roller Window, Impact", sheets 1 through 11 of 11, dated 02/28/06, with revision G 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) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an XOX aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5330**, dated 07/18/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 07-0815.09)
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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of an XOX aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4858**, dated 03/08/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No.06-0405.06)


Manuel Perez, P.E.
Product Control Examiner

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Expiration Date: December 21, 2021

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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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of an XOX aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4859**, dated 03/08/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 06-0405.06)

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. 15-0519.09)
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. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 06/19/14, expiring on 05/21/16.
2. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Kuraray Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.


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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. 15-0519.09)
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. 15-0519.09)
3. Laboratory compliance letter for Test Report No. **FTL-5330**, issued by Fenestration Testing Laboratory, Inc., dated 07/18/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 07-0815.09)
4. Laboratory compliance letter for Test Reports No. **FTL-4858 and FTL-4859**, issued by Fenestration Testing Laboratory, Inc., dated 03/08/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 06-0405.06)
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. **15-0519.09**, issued to PGT Industries for their Series "HR-710" Aluminum Horizontal Rolling Window - L.M.I., approved on 07/09/15 and expiring on 12/21/21.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0714.13
Expiration Date: December 21, 2021
Approval Date: September 01, 2016

GENERAL NOTES: IMPACT HORIZONTAL ROLLER FLANGED AND INTEGRAL FIN WINDOW

1. GLAZING OPTIONS: (SEE DETAILS ON SHEET 2). FOR INSTALLATION ABOVE 30 FT, GLASS TYPES G THRU L MUST HAVE A TEMPERED GLASS CAP.

A. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090" "PVB" INTERLAYER.

B. 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090" "PVB" INTERLAYER.

C. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A .090" "PVB" INTERLAYER.

D. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH A .090" "PVB" INTERLAYER.

E. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH A .090" "PVB" INTERLAYER.

F. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A .090" "PVB" INTERLAYER.

G. 13/16" LAMI IG: (1) LITE OF 1/8" OR 3/16" ANNEALED (MIN.) GLASS, 5/16" OR 3/8" AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090" "PVB" INTERLAYER.

H. 13/16" LAMI IG: (1) LITE OF 1/8" OR 3/16" ANNEALED (MIN.) GLASS, 5/16" OR 3/8" AIR SPACE AND 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090" "PVB" INTERLAYER.

I. 13/16" LAMI IG: (1) LITE OF 1/8" OR 3/16" ANNEALED (MIN.) GLASS, 5/16" OR 3/8" AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A .090" "PVB" INTERLAYER.

J. 13/16" LAMI IG: (1) LITE OF 1/8" OR 3/16" ANNEALED (MIN.) GLASS, 3/16" OR 1/4" AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH A .090" "PVB" INTERLAYER.

K. 13/16" LAMI IG: (1) LITE OF 1/8" OR 3/16" ANNEALED (MIN.) GLASS, 3/16" OR 1/4" AIR SPACE AND 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH A .090" "PVB" INTERLAYER.

L. 13/16" LAMI IG: (1) LITE OF 1/8" OR 3/16" ANNEALED (MIN.) GLASS, 3/16" OR 1/4" AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A .090" "PVB" INTERLAYER.

2. CONFIGURATIONS: OX, XO, XOX

3. DESIGN PRESSURES: (SEE TABLES, SHEET 3)

- 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.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE DETAILS.

5. SHUTTERS ARE NOT REQUIRED.

6. FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT OR GASKET.

7. REFERENCES: TEST REPORTS FTL-4858, FTL-4859 AND FTL-5330.
ELCO TEXTRON NOA'S
ANSI/AF&PA NDS FOR WOOD CONSTRUCTION
ALUMINUM DESIGN MANUAL

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

9. FOR INSTALLATION IN THE HVHZ ABOVE 30 FT, GLASS TYPES G - L SHALL HAVE A TEMPERED I.G. GLASS CAP. BOTH THE DP AND ANCHOR QUANTITY REMAIN UNCHANGED.

"PVB" = .090" BUTACITE® PVB INTERLAYER BY KURARAY AMERICA, INC.

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

NOA DRAWING MAP

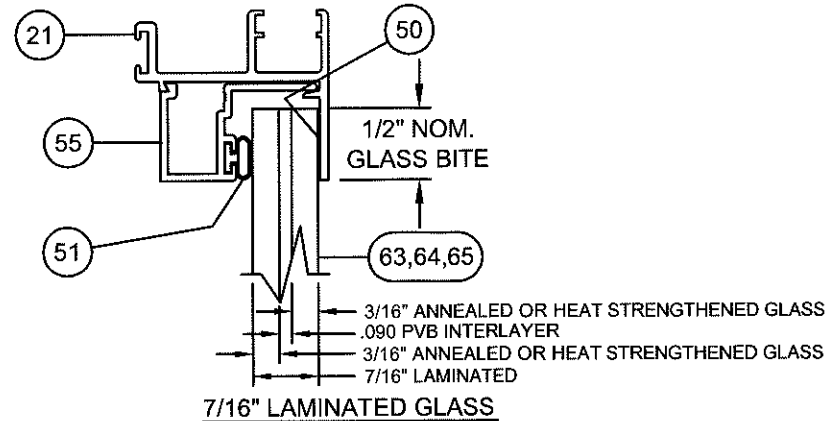
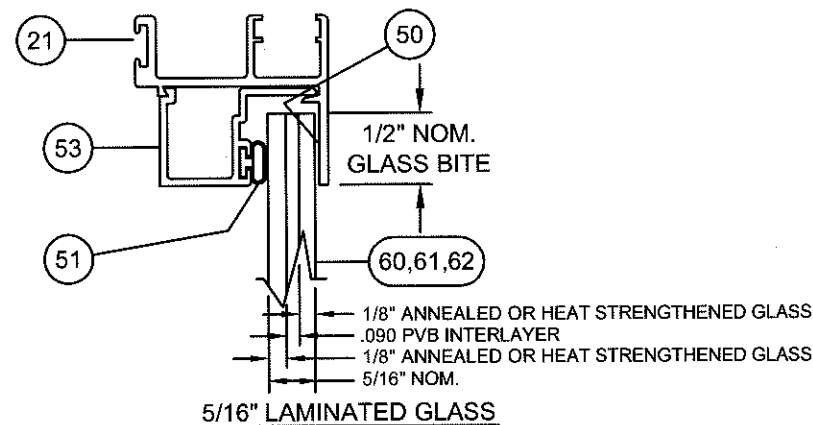
SHEET

GENERAL NOTES.....	1
GLAZING DETAILS.....	2
DESIGN PRESSURES.....	3
ELEVATIONS.....	4
VERT. SECTIONS.....	5
HORIZ. SECTIONS.....	5
PARTS LIST.....	6
EXTRUSIONS.....	7
CORNER DETAIL.....	5
ANCHORAGE.....	8-11

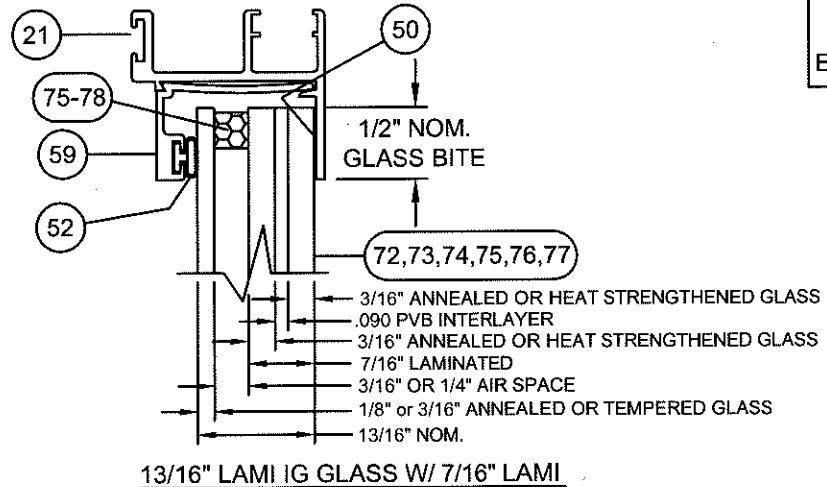
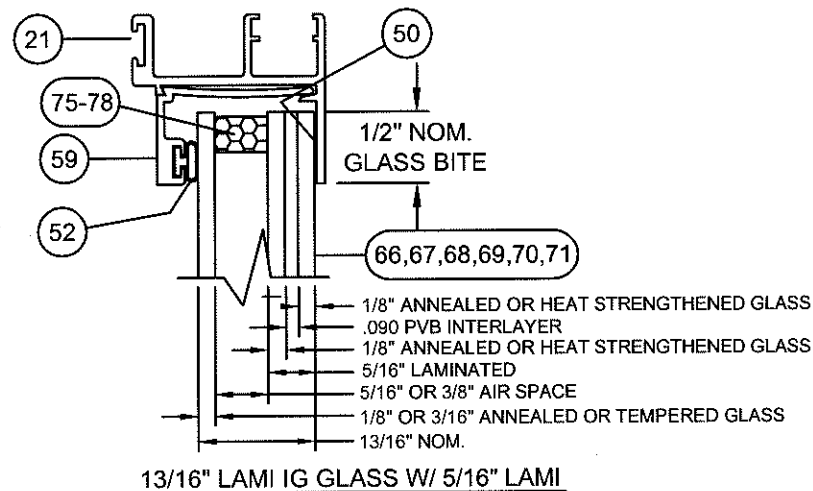
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-074-13
Expiration Date Dec 21, 2021
By *Manuel Perez*
Miami/Dade Product Control



Revsd By: JR	Date: 05/05/16	Revisions: G	ADDED SPACERS TO SHEET 2.	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274		Description: GENERAL NOTES				
Revsd By:	Date:	Revisions:				Title: ALUM. HORIZONTAL ROLLER WINDOW, IMPACT				
Revsd By:	Date:	Revisions:				Series/Model: HR710	Scale: NTS	Sheet: 1 of 11	Drawing No. 4127-10	Rev: G
Drawn By: F.K.	Date: 2/28/06	Checked By: J.J.	Date: 3/23/06							



← EXTERIOR INTERIOR →
(ALL SECTIONS)

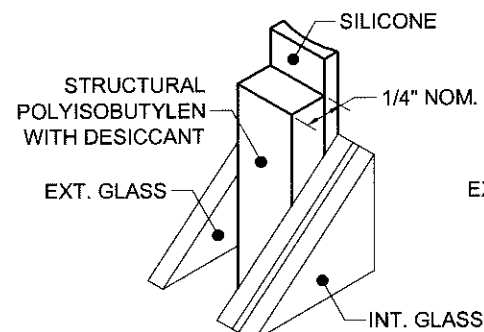


Part #	Description	Material
75	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
76	Quanex Super Spacer nXT with Hot Melt Butyl	
77	Quanex Duraseal Spacer	
78	Cardinal XL Edge Spacer	

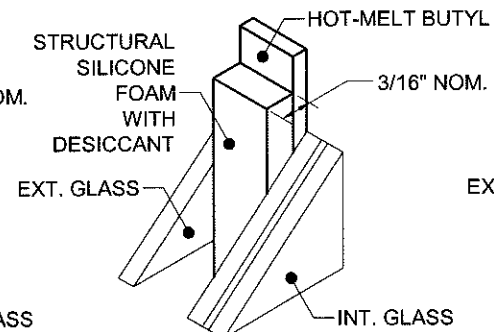
REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

FOR INSTALLATION IN THE HVHZ ABOVE 30 FT, GLASS TYPES G - L SHALL HAVE A TEMPERED I.G. GLASS CAP. BOTH THE DP AND ANCHOR QUANTITY TO REMAIN UNCHANGED.

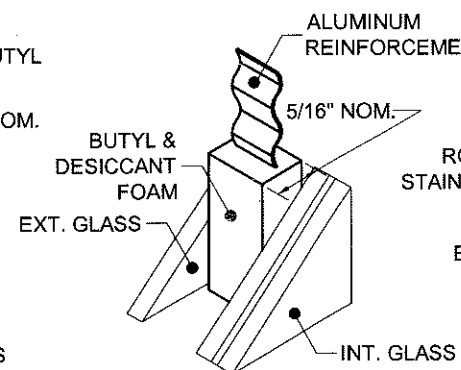
"PVB" =
KURARAY BUTACITE®
PVB INTERLAYER
or
SAFLEX® PVB INTERLAYER BY
EASTMAN CHEMICAL COMPANY



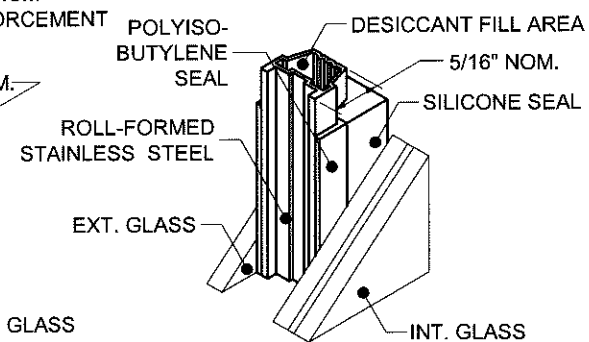
75 **KODISPACE 4SG TPS**



76 **SUPER SPACER® NXT™**

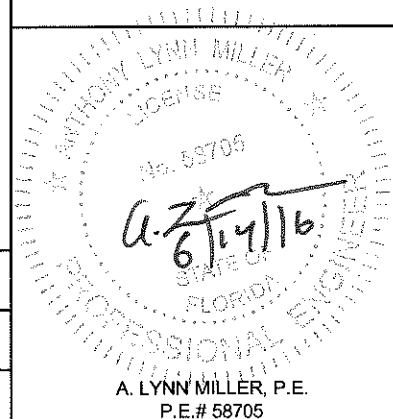


77 **DURASEAL® SPACER**



78 **XL EDGE™ SPACER**

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714.13
Expiration Date Dec 21, 2021
By *Manuel*
Miami Dade Product Control



Revised By:	Date:	Revisions:	
JR	05/05/16	G	ADDED SPACERS.
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	2/28/06	J.J.	3/23/06

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

PGT
Visibly Better

Description:	GLAZING DETAILS			
Title:	ALUM. HORIZONTAL ROLLER WINDOW, IMPACT			
Series/Model:	HR710	Scale:	Full	Sheet:
				2 of 11
Drawing No.	4127-10	Rev:	G	

TABLE 1.

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

WINDOW WIDTH	GLASS TYPE	WINDOW HEIGHT															
		26"		36"		38 3/8"		48"		50 5/8"		54"		60"		63"	
84"	A,B,G,H	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
96"	A,B,G,H	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+58.8	-58.8	+56.2	-56.2
106 3/8"	A,B,G,H	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+55.2	-55.2	+52.3	-52.3
108"	A,B,G,H	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+54.6	-54.6	+51.7	-51.7
111"	A,B,G,H	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+59.5	-59.5	+53.6	-53.6	+50.9	-50.9
UP TO 111"	C,I															+60.0	-60.0
UP TO 111"	D,E,F, J,K,L															+75.0	-75.0

FOR INSTALLATION IN THE HVHZ ABOVE 30 FT, GLASS TYPES G - L SHALL HAVE A TEMPERED I.G. GLASS CAP. BOTH THE DP AND ANCHOR QUANTITY REMAIN UNCHANGED.

TABLE 2.

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

WINDOW WIDTH	GLASS TYPE	WINDOW HEIGHT			
		ALL HEIGHTS UP TO		63"	
TO 86 7/16"	A,B,C, G,H,I			+60.0	-60.0
TO 86 7/16"	D,E,F, J,K,L			+75.0	-75.0

TABLE 3.

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

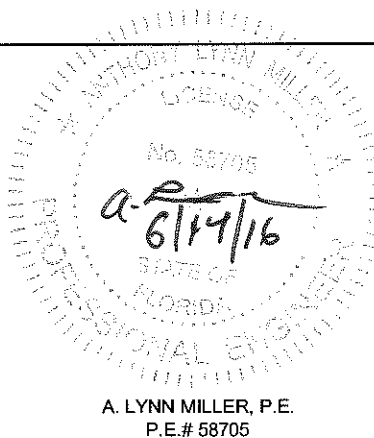
WINDOW WIDTH	GLASS TYPE	WINDOW HEIGHT															
		26"		36"		38 3/8"		48"		50 5/8"		54"		60"		63"	
60"	A,B,G,H	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0
66"	A,B,G,H	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+74.2	-74.2	+70.2	-70.2
72"	A,B,G,H	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+69.6	-69.6	+65.2	-65.2
74"	A,B,G,H	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+75.0	-75.0	+68.1	-68.1	+63.8	-63.8
UP TO 74"	C,D,E,F, I,J,K, L															+75.0	-75.0

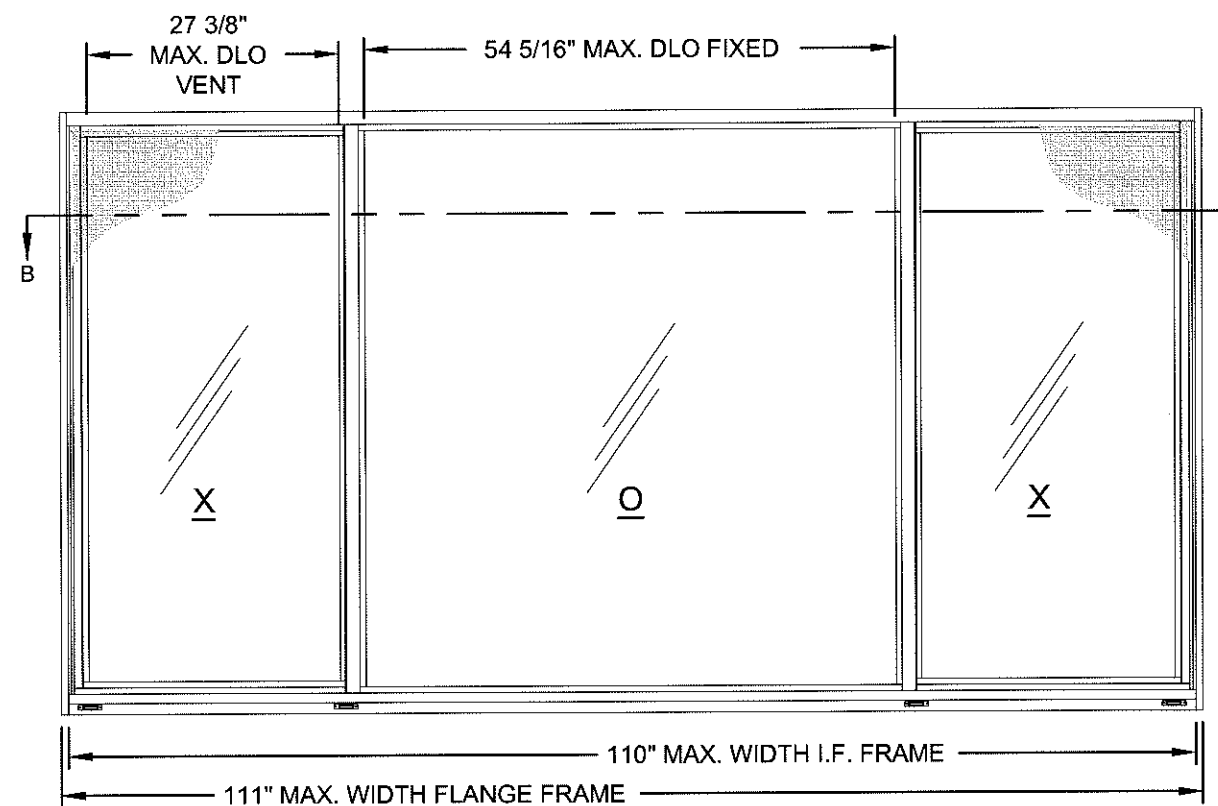
PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 16-0714-13
 Expiration Date Dec 21, 2021
 By *Manuel Perez*
 Miami Dade Product Control

GLASS TYPES: TEST REPORT FTL-4858 (XOX), FTL-4859 (OX & XO) AND FTL-5330

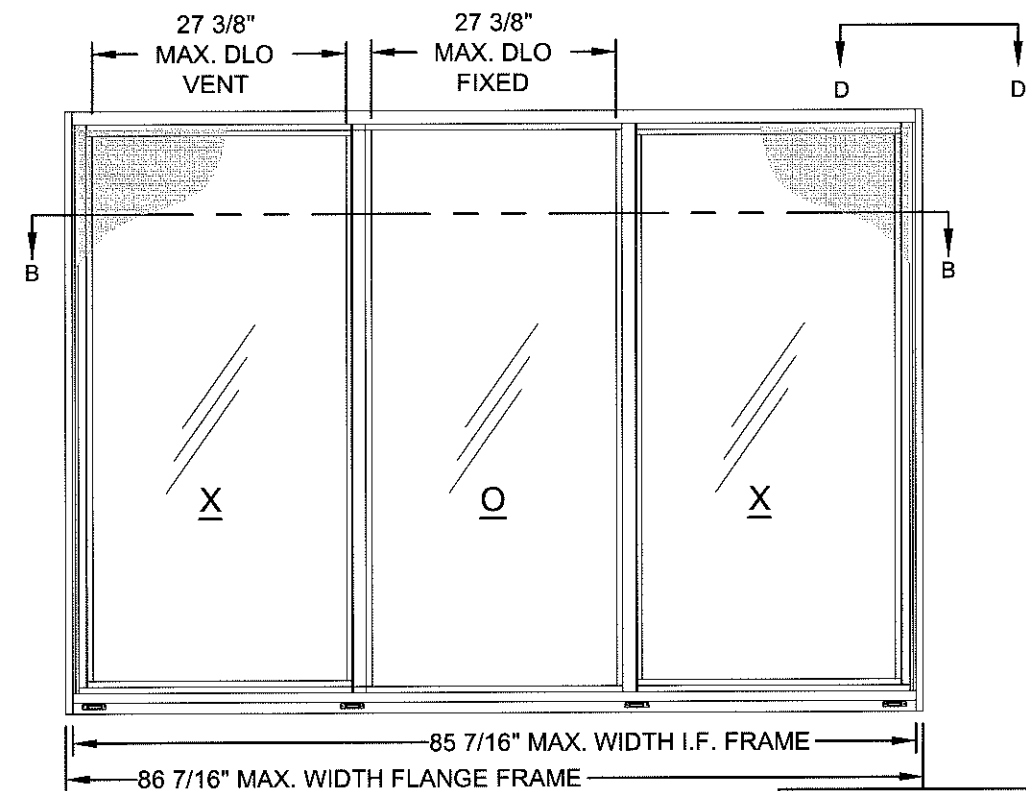
- | | |
|--|---|
| A. 5/16" LAMI - (1/8" A, .090, 1/8" A) | G. 13/16" LAMI IG-1/8" OR 3/16"A (MIN.), 5/16" OR 3/8" AIR SPACE, 5/16" LAMI - (1/8"A, .090, 1/8"A) |
| B. 5/16" LAMI - (1/8" A, .090, 1/8" HS) | H. 13/16" LAMI IG-1/8" OR 3/16"A (MIN.), 5/16" OR 3/8" AIR SPACE, 5/16" LAMI - (1/8"A, .090, 1/8"HS) |
| C. 5/16" LAMI - (1/8" HS, .090, 1/8" HS) | I. 13/16" LAMI IG-1/8" OR 3/16"A (MIN.), 5/16" OR 3/8" AIR SPACE, 5/16" LAMI - (1/8"HS, .090, 1/8"HS) |
| D. 7/16" LAMI - (3/16" A, .090, 3/16" A) | J. 13/16" LAMI IG-1/8" OR 3/16"A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16"A, .090, 3/16"A) |
| E. 7/16" LAMI - (3/16" A, .090, 3/16" HS) | K. 13/16" LAMI IG-1/8" OR 3/16"A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16"A, .090, 3/16"HS) |
| F. 7/16" LAMI - (3/16" HS, .090, 3/16" HS) | L. 13/16" LAMI IG-1/8" OR 3/16"A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16"HS, .090, 3/16"HS) |

Revised By:	Date:	Revisions:		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: DESIGN PRESSURES				
Revised By:	Date:	Revisions:				Title: ALUM. HORIZONTAL ROLLER WINDOW, IMPACT				
Revised By:	Date:	Revisions:				Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
Drawn By:	Date:	Checked By:	Date:			HR710	NTS	3 of 11	4127-10	G
F.K.	2/28/06	J.J.	3/23/06							

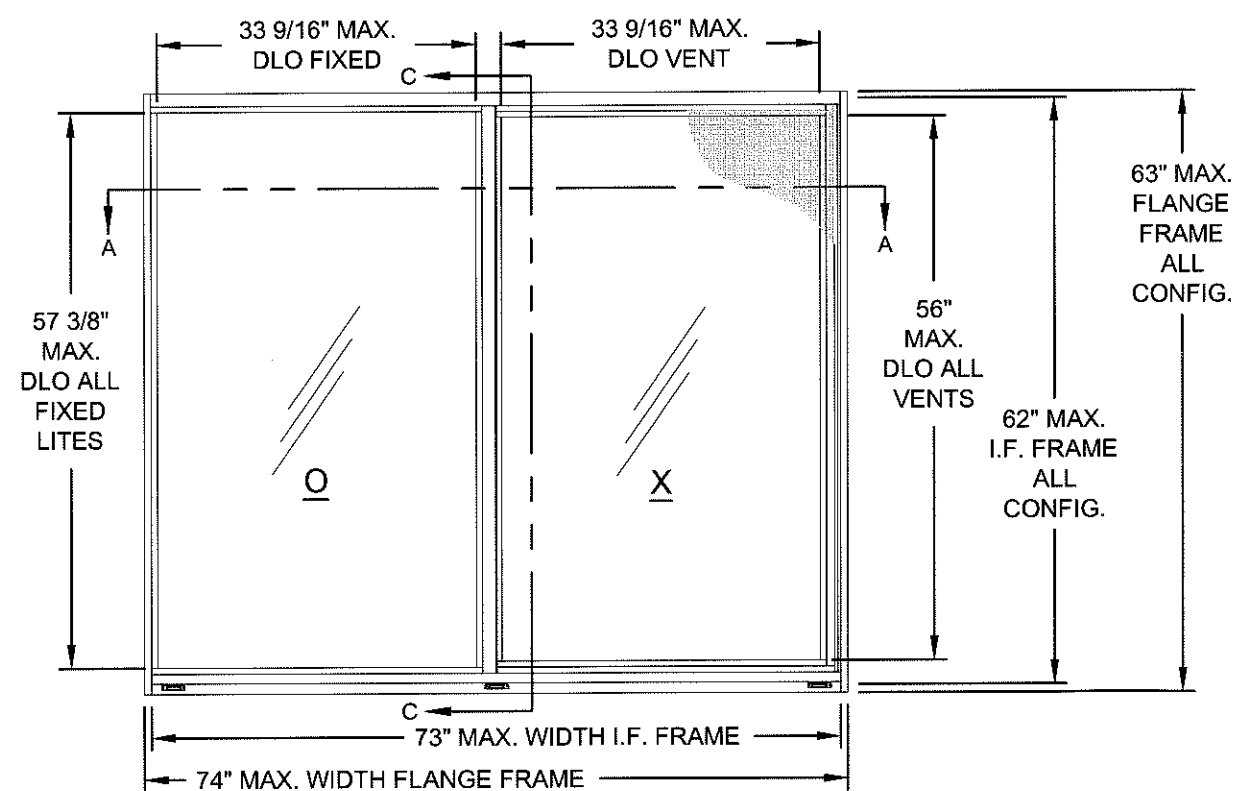

 a-6/14/16
 ANTHONY LYNN MILLER
 No. 58705
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705



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



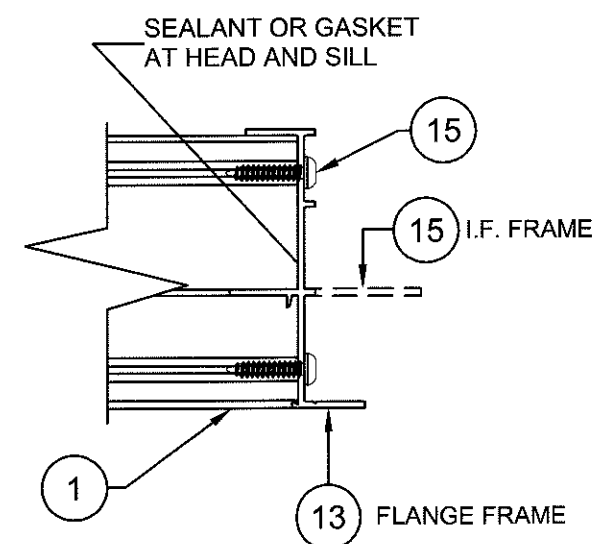
DETAIL C - XOX (1/3-1/3-1/3)



DETAIL A - OX OR XO

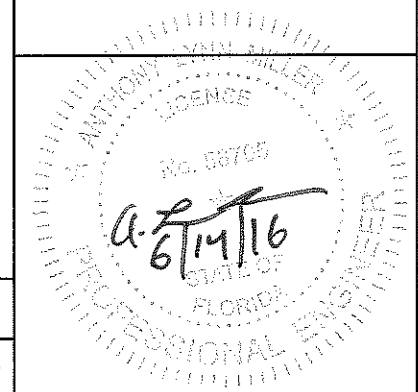
NOTE:

1. SEE SHEET 5 FOR VERTICAL AND HORIZONTAL SECTION DETAILS.



VIEW D-D
(FRAME CORNER CONSTRUCTION)

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Building Code
Acceptance No. 16-0714.13
Expiration Date Dec. 21, 2021
By *Manuel Perez*
Miami Dade Product Control



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P.E.# 58705

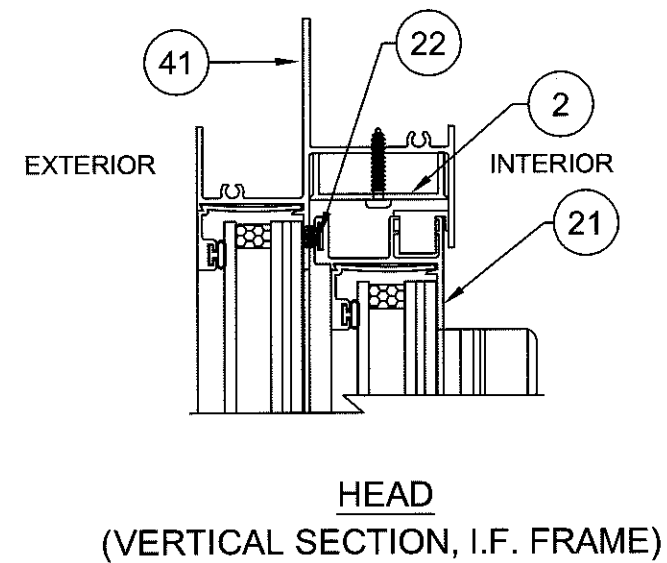
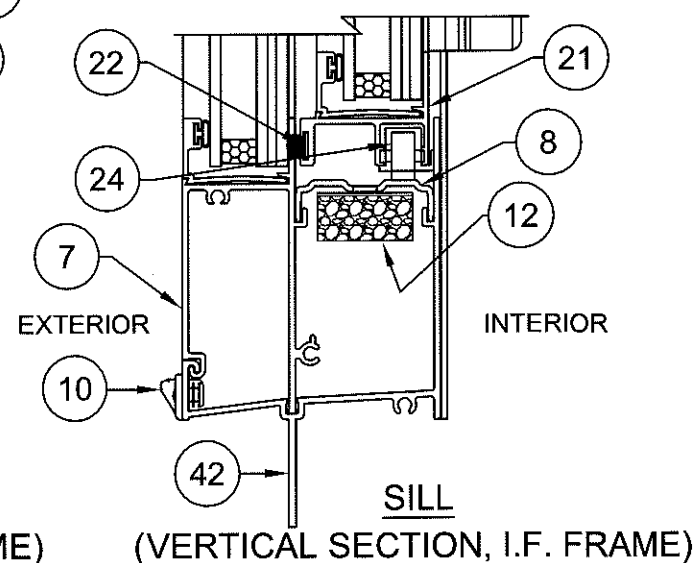
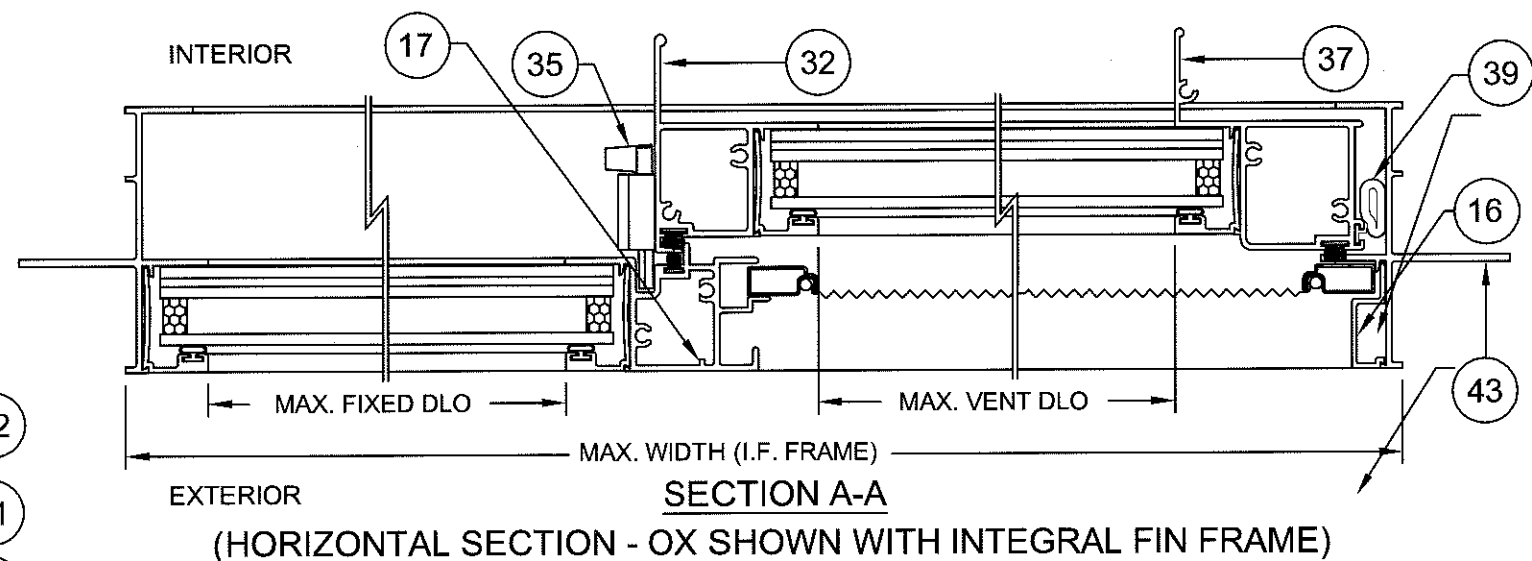
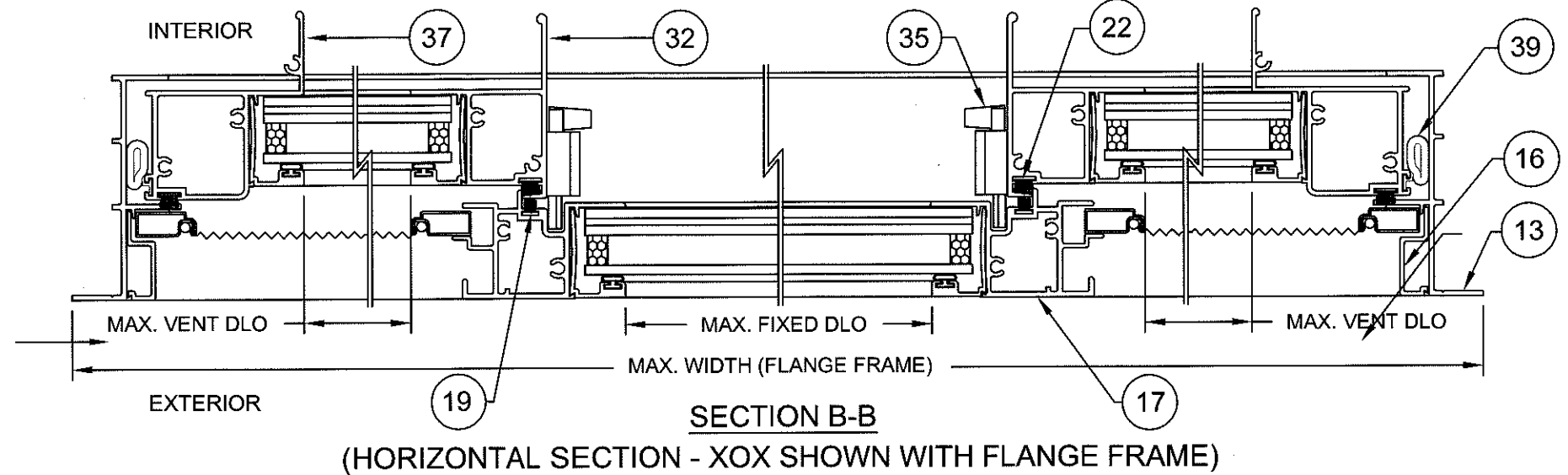
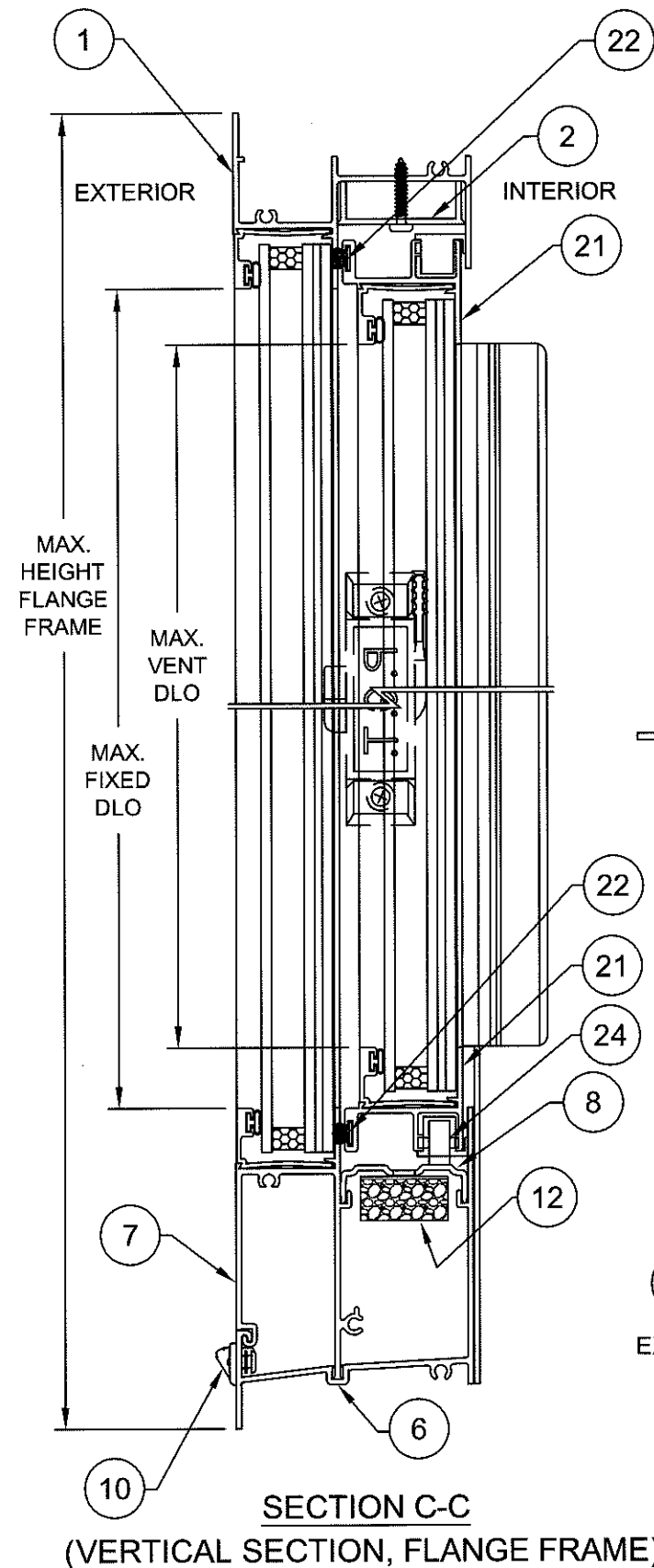
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Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	2/28/06	J.J.	3/23/06

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

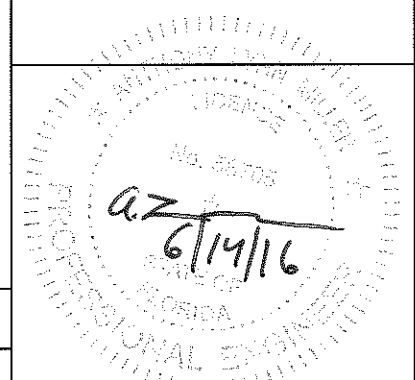
P.O. BOX 1529
NOKOMIS, FL 34274



Description: ELEVATIONS			
Title: ALUM. HORIZONTAL ROLLER WINDOW, IMPACT			
Series/Model: HR710	Scale: NTS	Sheet: 4 of 11	Drawing No.: 4127-10
Rev: G			



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By *Manuel Perez*
Miami Dade Product Control



Revised By:	Date:	Revisions:
Revised By:	Date:	Revisions:
Revised By:	Date:	Revisions:
Drawn By:	Date:	Checked By:
F.K.	2/28/06	J.J.

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

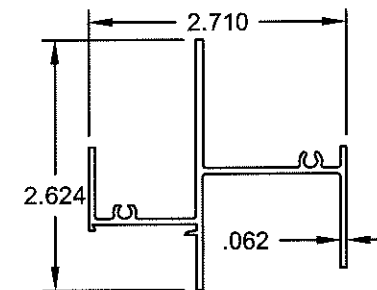


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Title:	ALUM. HORIZONTAL ROLLER WINDOW, IMPACT		
Series/Model:	HR710	Scale:	Half
Sheet:	5 of 11	Drawing No.	4127-10
Rev:	G		

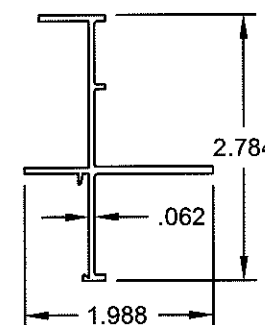
A. LYNN MILLER, P.E.
P.E.# 58705

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 & 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
38	1683		WSTP.,.250 X .270 BACK, FIN SEAL		61683G
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
53	4039	B	GLAZING BEAD - 5/16"	6063-T5 AL	64039B
54	4044	B	GLAZING BEAD - 5/16" W/GRILL KIT	6063-T5 AL	644703
55	4222	A	GLAZING BEAD - 7/16"	6063-T5 AL	64222
56	985	C	GLAZING BEAD - 7/16" W/GRILL KIT	6063-T5 AL	6985
59	4067		GLAZING BEAD - 13/16"	6063-T5 AL	64067
60	GLASS,		5/16" LAMI (1/8" A, .090 PVB, 1/8" A)		
61	"		5/16" LAMI (1/8" A, .090 PVB, 1/8" HS)		
62	"		5/16" LAMI (1/8" HS, .090 PVB, 1/8" HS)		
63	"		7/16" LAMI (3/16" A, .090 PVB, 3/16" A)		
64	"		7/16" LAMI (3/16" A, .090 PVB, 3/16" HS)		
65	"		7/16" LAMI (3/16" HS, .090 PVB, 3/16" HS)		

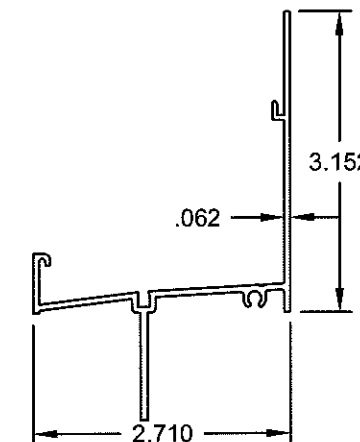
ITEM	DWG#	REV	DESCRIPTION	MAT'L	PGT#
66	GLASS,		13/16" LAMI IG-1/8" A (MIN.), 3/8" AIR SPACE, 5/16" LAMI (1/8" A, .090 PVB, 1/8" A)		
67	"		13/16" LAMI IG-1/8" A (MIN.), 3/8" AIR SPACE, 5/16" LAMI (1/8" A, .090 PVB, 1/8" HS)		
68	"		13/16" LAMI IG-1/8" A (MIN.), 3/8" AIR SPACE, 5/16" LAMI (1/8" HS, .090 PVB, 1/8" HS)		
69	"		13/16" LAMI IG-3/16" A (MIN.), 5/16" AIR SPACE, 5/16" LAMI (1/8" A, .090 PVB, 1/8" A)		
70	"		13/16" LAMI IG-3/16" A (MIN.), 5/16" AIR SPACE, 5/16" LAMI (1/8" A, .090 PVB, 1/8" HS)		
71	"		13/16" LAMI IG-3/16" A (MIN.), 5/16" AIR SPACE, 5/16" LAMI (1/8" HS, .090 PVB, 1/8" HS)		
72	"		13/16" LAMI IG-1/8" A (MIN.), 1/4" AIR SPACE, 7/16" LAMI (3/16" A, .090 PVB, 3/16" A)		
73	"		13/16" LAMI IG-1/8" A (MIN.), 1/4" AIR SPACE, 7/16" LAMI (3/16" A, .090 PVB, 3/16" HS)		
74	"		13/16" LAMI IG-1/8" A (MIN.), 1/4" AIR SPACE, 7/16" LAMI (3/16" HS, .090 PVB, 3/16" HS)		
75	"		13/16" LAMI IG-3/16" A (MIN.), 3/16" AIR SPACE, 7/16" LAMI (3/16" A, .090 PVB, 3/16" A)		
76	"		13/16" LAMI IG-3/16" A (MIN.), 3/16" AIR SPACE, 7/16" LAMI (3/16" A, .090 PVB, 3/16" HS)		
77	"		13/16" LAMI IG-3/16" A (MIN.), 3/16" AIR SPACE, 7/16" LAMI (3/16" HS, .090 PVB, 3/16" HS)		
90	1014		SCREEN FRAME (HOR. & VER.)	3105-H14 AL	
91	1630		SCREEN CORNER KEY W/RINGS	POLYPROP.	
92	1631		SCREEN CORNER KEY W/OUT RINGS	POLYPROP.	
93	1073		SCREEN SPRING	ST.ST.	
94	1624		SCREEN SPLINE - .135 DIA. FOAM	EM PVC	
95	1635		SCREEN SPLINE - .135 DIA. HARD	EM PVC	
96			SCREEN	CLOTH	



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

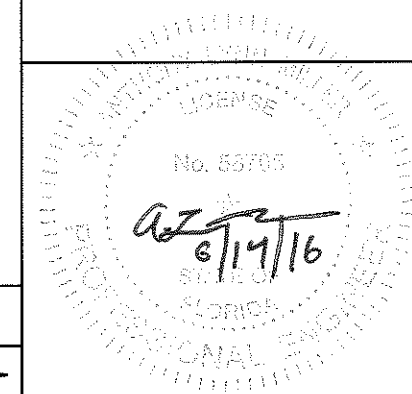


43 I.F. FRAME JAMB
#4141, 6063-T6



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

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By *W. J. Miller*
Miami/Dade Product Control



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P.E.# 55705

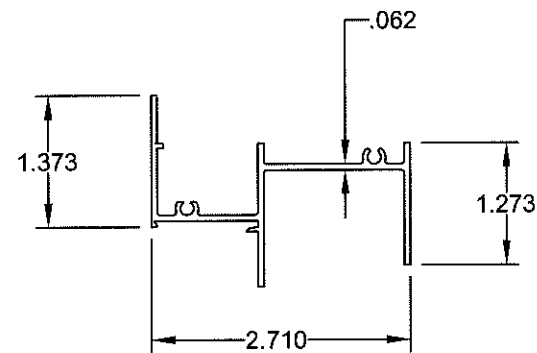
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Drawn By:	Date:	Checked By:	Date:
F.K.	2/28/06	J.J.	3/23/06

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

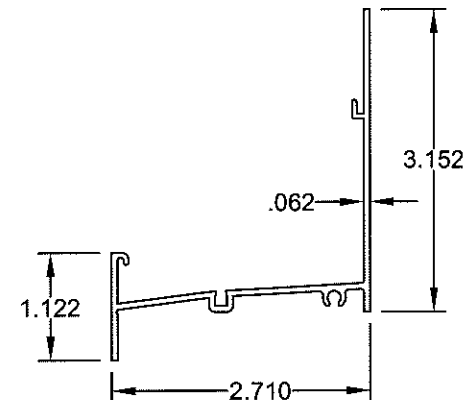
P.O. BOX 1529
NOKOMIS, FL 34274



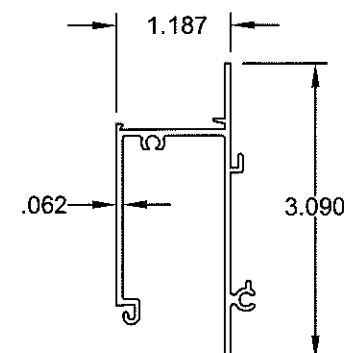
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Series/Model:	HR710	Scale:	NTS	Sheet:	6 of 11
Drawing No.	4127-10	Rev:	G		



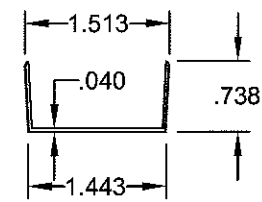
1 **FLANGE FRAME HEAD**
#4102A, 6063-T6



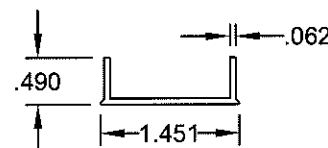
6 **FLANGE FRAME SILL**
#4136, 6063-T6



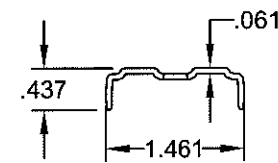
7 **FRAME SILL ADAPTER**
#4137, 6063-T6



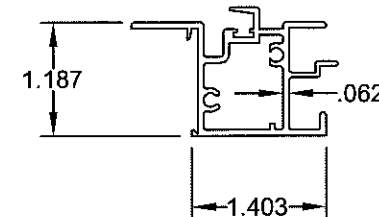
4 **SASH STOP COVER**
#4053, 6063-T5



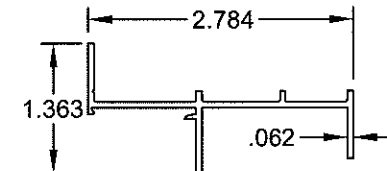
2 **SASH STOP**
#4025, 6063-T5



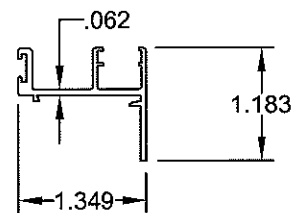
8 **HORIZ. ROLLER TRACK**
#4131, 6063-T6



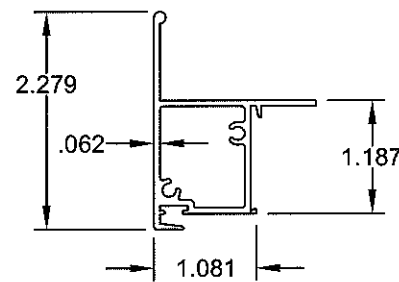
17 **FIXED MEETING RAIL**
#4054B, 6063HD-T6



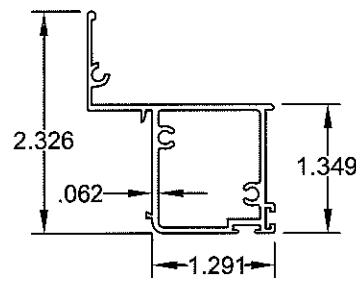
13 **FLANGE FRAME JAMB**
#4002A, 6063-T6



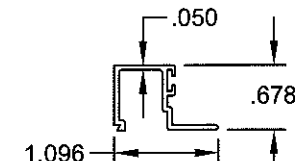
21 **SASH TOP & BOTTOM RAIL**
#4133, 6063-T5



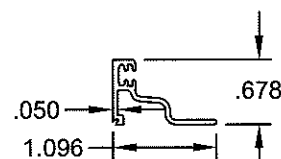
32 **SASH MTG. RAIL**
#4006D, 6063HS-T6



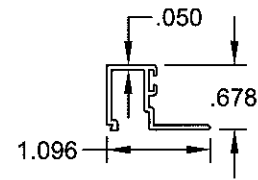
37 **SASH SIDE RAIL**
#4126, 6063-T5



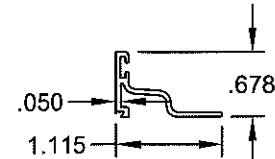
53 **GLAZING BEAD, 5/16"**
#4039B, 6063-T5



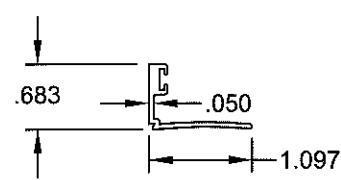
54 **GLAZING BEAD, 5/16"**
#4044B, 6063-T5
(USED W/ GRILL KIT)



55 **GLAZING BEAD 7/16"**
#4222A, 6063-T5

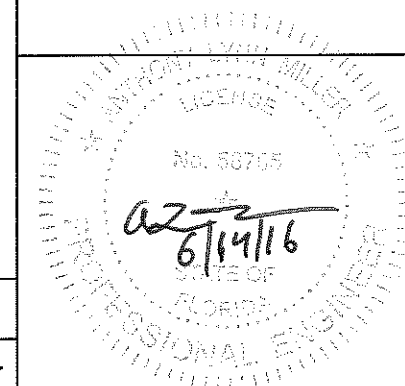


56 **GLAZING BEAD, 7/16"**
#985C, 6063-T5
(USED W/ GRILL KIT)



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

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Miami Dade Product Control



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

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F.K.	2/28/06	J.J.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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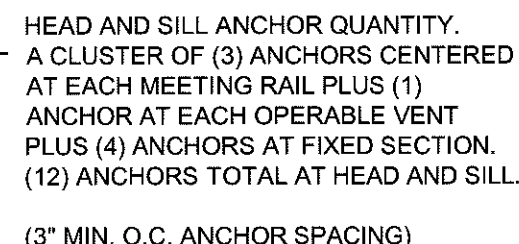
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Series/Model: HR710	Scale: Half	Sheet: 7 of 11	Drawing No. 4127-10
Rev: G			

TABLE 4

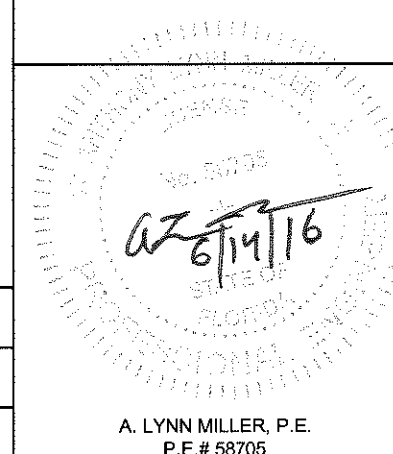
NOTES:

- FOR INSTALLATION IN THE HVHZ ABOVE 30 FT, GLASS TYPES G - L SHALL HAVE A TEMPERED I.G. GLASS CAP. BOTH THE DP AND ANCHOR QUANTITY REMAIN UNCHANGED.

TABLE KEY:



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Miami Dade Product Control



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274



Description: ANCHORAGE SPACING, XOX (1/4-1/2-1/4)				
Title: ALUM. HORIZONTAL ROLLER WINDOW, IMPAC				
Series/Model: HR710	Scale: NTS	Sheet: 8 of 11	Drawing No. 4127-10	Rev. (

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

ANCHOR QUANTITIES, XOX (1/3-1/3-1/3) WINDOWS

TABLE 5

ANCHOR TYPE & SUBSTRATE	GLASS TYPES A,B,G,H						GLASS TYPES C,D,E,F,I,J,K, L					
	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
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	2	1+C2+1+C2+1	2	1+C2+1+C2+1	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	1+C2+1+C2+1	3
50.625	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	1+C2+1+C2+1	3
54.000	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	1+C2+1+C2+1	3
60.000	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	1+C2+1+C2+1	3
63.000	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	1+C3+1+C3+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	2	1+C2+1+C2+1	2	1+C2+1+C2+1	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	1+C2+1+C2+1	3
50.625	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	1+C2+1+C2+1	3
54.000	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	1+C2+1+C2+1	3
60.000	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	1+C3+1+C3+1	3
63.000	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	1+C3+1+C3+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+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	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	1+C2+1+C2+1	3
50.625	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	1+C2+1+C2+1	3
54.000	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	1+C3+1+C3+1	3
60.000	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	1+C3+1+C3+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+C2+1+C2+1	3	1+C3+1+C3+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+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	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	1+C2+1+C2+1	3
50.625	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	1+C3+1+C3+1	3
54.000	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	1+C3+1+C3+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+C2+1+C2+1	3	1+C3+1+C3+1	3
63.000	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+C2+1+C2+1	3	1+C3+1+C3+1	3
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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	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+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3
54.000	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	1+C3+1+C3+1	3
60.000	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+C2+1+C2+1	3	1+C3+1+C3+1	3
63.000	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+C2+1+C2+1	3	1+C3+1+C3+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	2	1+C2+1+C2+1	2	1+C2+1+C2+1	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	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+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3
54.000	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+C2+1+C2+1	3	1+C3+1+C3+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C3+1+C3+1	3
63.000	1+C3+1+C3+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
86.437 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	2	1+C2+1+C2+1	2	1+C2+1+C2+1	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	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+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3
54.000	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+C2+1+C2+1	3	1+C3+1+C3+1	3
60.000	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4
63.000	1+C3+1+C3+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	4	1+C3+1+C3+1	3	1+C4+1+C4+1	4

NOTES:

- ANCHOR TYPES:
1 - 1/4" ELCO TAPCONS 2 - 1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREWS (G5)
- GLASS TYPES:
A. 5/16" LAMI - (1/8" A.,.090, 1/8" A)
B. 5/16" LAMI - (1/8" A.,.090, 1/8" HS)
C. 5/16" LAMI - (1/8" HS,.090, 1/8" HS)
D. 7/16" LAMI - (3/16" A.,.090, 3/16" A)
E. 7/16" LAMI - (3/16" A.,.090, 3/16" HS)
F. 7/16" LAMI - (3/16" HS,.090, 3/16" HS)
G. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 5/16" OR 3/8" SPACE, 5/16" LAMI - (1/8" A.,.090, 1/8" A)
H. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 5/16" OR 3/8" SPACE, 5/16" LAMI - (1/8" A.,.090, 1/8" HS)
I. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 5/16" OR 3/8" SPACE, 5/16" LAMI - (1/8" HS,.090, 1/8" HS)
J. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16" A.,.090, 3/16" A)
K. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16" A.,.090, 3/16" HS)
L. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16" HS,.090, 3/16" HS)

FOR INSTALLATION IN THE HVHZ ABOVE 30 FT, GLASS TYPES G - L SHALL HAVE A TEMPERED I.G. GLASS CAP. BOTH THE DP AND ANCHOR QUANTITY REMAIN UNCHANGED.

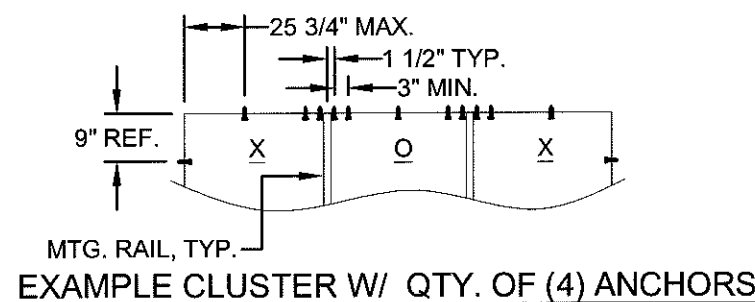
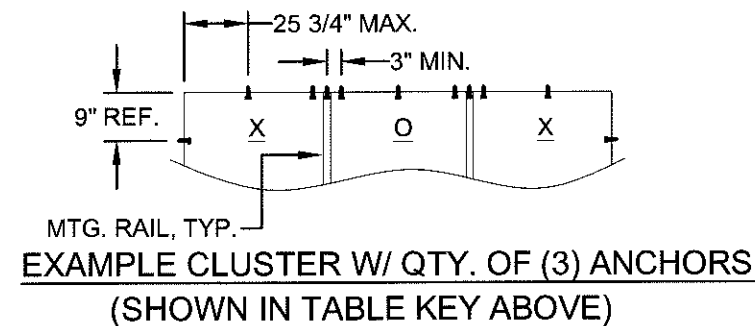
- WINDOW ANCHOR QUANTITIES ARE PER ADJACENT TABLE AND BASED ON THE FOLLOWING DIMENSIONS. FOR WINDOW SIZES NOT SHOWN, GO TO NEXT LARGER WINDOW IN TABLE.

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.

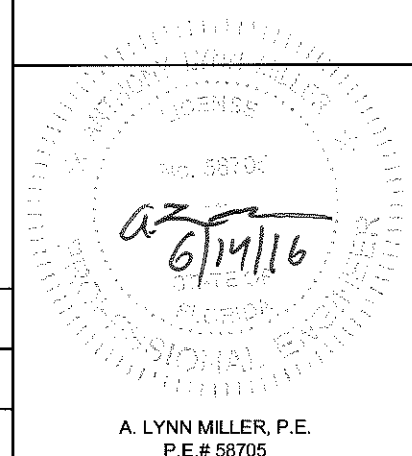
TABLE KEY:

$\frac{X}{1+C3+1+C3+1}$ $\frac{O}{3}$ $\frac{X}{3}$ — 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. 16-0714.13
Expiration Date Dec. 21, 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.	2/28/06	J.J.	3/23/06

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



Description:	ANCHORAGE SPACING, XOX (1/3-1/3-1/3)		
Title:	ALUM. HORIZONTAL ROLLER WINDOW, IMPACT		
Series/Model:	HR710	Scale:	NTS
Sheet:	9 of 11	Drawing No.	4127-10
Rev.	G		

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

ANCHOR QUANTITIES, XO & OX WINDOWS TABLE 6

ANCHOR TYPE & SUBSTRATE	GLASS TYPES A,B,G,H						GLASS TYPES C,D,E,F,I,J,K, L					
	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
37.000 x 38.375	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2
48.000	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3
50.625	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3
54.000	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3
60.000	1+C2+1	3	1+C2+1	3	1+C3+1	3	1+C2+1	3	1+C2+1	3	1+C3+1	3
63.000	1+C2+1	3	1+C2+1	3	1+C3+1	3	1+C2+1	3	1+C2+1	3	1+C3+1	3
48.000 x 38.375	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2
48.000	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	3
50.625	1+C2+1	3	1+C2+1	3	1+C3+1	3	1+C2+1	3	1+C2+1	3	1+C3+1	3
54.000	1+C2+1	3	1+C2+1	3	1+C3+1	3	1+C2+1	3	1+C2+1	3	1+C3+1	3
60.000	1+C3+1	3	1+C2+1	3	1+C3+1	3	1+C3+1	3	1+C2+1	3	1+C3+1	3
63.000	1+C3+1	3	1+C2+1	3	1+C3+1	3	1+C3+1	3	1+C2+1	3	1+C3+1	3
53.125 x 38.375	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2
48.000	1+C2+1	3	1+C2+1	3	1+C3+1	3	1+C2+1	3	1+C2+1	3	1+C3+1	3
50.625	1+C2+1	3	1+C2+1	3	1+C3+1	3	1+C2+1	3	1+C2+1	3	1+C3+1	3
54.000	1+C3+1	3	1+C2+1	3	1+C3+1	3	1+C3+1	3	1+C2+1	3	1+C3+1	3
60.000	1+C3+1	4	1+C2+1	3	1+C3+1	3	1+C3+1	4	1+C2+1	3	1+C3+1	3
63.000	1+C3+1	4	1+C3+1	3	1+C4+1	3	1+C3+1	4	1+C3+1	3	1+C4+1	3
60.000 x 38.375	1+C2+1	3	1+C2+1	2	2+C2+2	2	1+C2+1	3	1+C2+1	2	2+C2+2	2
48.000	1+C2+1	3	1+C2+1	3	2+C3+2	3	1+C2+1	3	1+C2+1	3	2+C3+2	3
50.625	1+C3+1	3	1+C2+1	3	2+C3+2	3	1+C3+1	3	1+C2+1	3	2+C3+2	3
54.000	1+C3+1	4	1+C2+1	3	2+C3+2	3	1+C3+1	4	1+C2+1	3	2+C3+2	3
60.000	1+C3+1	4	1+C3+1	3	2+C4+2	4	1+C3+1	4	1+C3+1	3	2+C4+2	4
63.000	1+C3+1	4	1+C3+1	3	2+C4+2	4	1+C3+1	4	1+C3+1	3	2+C4+2	4
66.000 x 38.375	2+C2+2	3	1+C2+1	2	2+C2+2	3	2+C2+2	3	1+C2+1	2	2+C2+2	3
48.000	2+C2+2	4	1+C2+1	3	2+C3+2	3	2+C2+2	4	1+C2+1	3	2+C3+2	3
50.625	2+C3+2	4	1+C2+1	3	2+C3+2	3	2+C3+2	4	1+C2+1	3	2+C3+2	3
54.000	2+C3+2	4	1+C2+1	3	2+C3+2	4	2+C3+2	4	1+C2+1	3	2+C3+2	4
60.000	2+C3+2	4	1+C3+1	3	2+C4+2	4	2+C3+2	4	1+C3+1	3	2+C4+2	4
63.000	1+C3+1	4	1+C3+1	3	2+C4+2	4	2+C3+2	4	1+C3+1	3	2+C4+2	4
74.000 x 38.375	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3
48.000	2+C3+2	4	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C2+2	3	2+C3+2	4
50.625	2+C3+2	4	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C2+2	3	2+C3+2	4
54.000	2+C3+2	4	2+C3+2	3	2+C4+2	4	2+C3+2	4	2+C3+2	3	2+C4+2	4
60.000	2+C3+2	4	1+C3+1	3	2+C4+2	4	2+C3+2	5	2+C3+2	3	2+C4+2	4
63.000	2+C3+2	4	1+C3+1	3	2+C4+2	4	2+C4+2	5	2+C3+2	4	2+C4+2	5

NOTES:

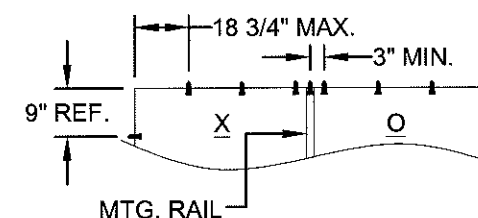
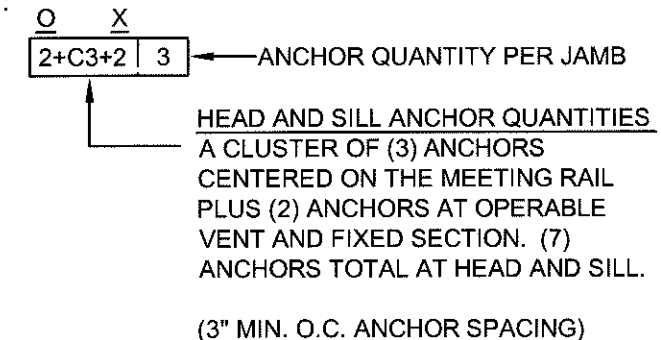
- ANCHOR TYPES:
1 - 1/4" ELCO TAPCONS 2 - 1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREWS (G5)
- GLASS TYPES:
A. 5/16" LAMI - (1/8" A,.090, 1/8" A)
B. 5/16" LAMI - (1/8" A,.090, 1/8" HS)
C. 5/16" LAMI - (1/8" HS,.090, 1/8" HS)
D. 7/16" LAMI - (3/16" A,.090, 3/16" A)
E. 7/16" LAMI - (3/16" A,.090, 3/16" HS)
F. 7/16" LAMI - (3/16" HS,.090, 3/16" HS)
G. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 5/16" OR 3/8" SPACE, 5/16" LAMI - (1/8" A,.090, 1/8" A)
H. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 5/16" OR 3/8" SPACE, 5/16" LAMI - (1/8" A,.090, 1/8" HS)
I. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 5/16" OR 3/8" SPACE, 5/16" LAMI - (1/8" HS,.090, 1/8" HS)
J. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16" A,.090, 3/16" A)
K. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16" A,.090, 3/16" HS)
L. 13/16" LAMI IG - 1/8" OR 3/16" A (MIN.), 3/16" OR 1/4" SPACE, 7/16" LAMI - (3/16" HS,.090, 3/16" HS)

FOR INSTALLATION IN THE HVHZ ABOVE 30 FT, GLASS TYPES G - L SHALL HAVE A TEMPERED I.G. GLASS CAP. BOTH THE DP AND ANCHOR QUANTITY REMAIN UNCHANGED.

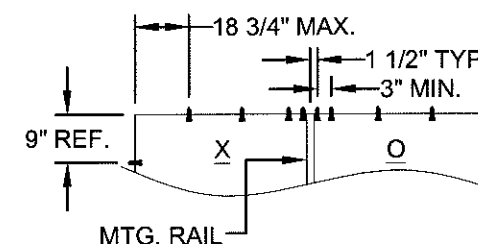
3. WINDOW ANCHOR QUANTITIES ARE PER ADJACENT TABLE AND BASED ON THE FOLLOWING DIMENSIONS. FOR WINDOW SIZES NOT SHOWN, GO TO NEXT LARGER WINDOW IN TABLE.

HEAD & SILL: 10 1/2" MAX. ON EACH SIDE OF MEETING RAIL CENTERLINE.
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

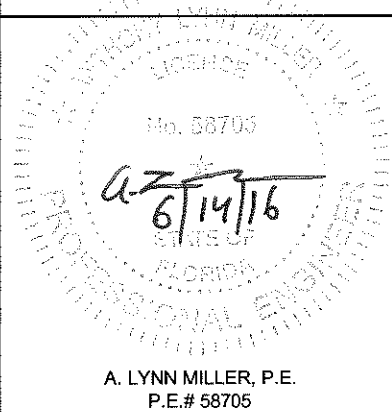
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Drawn By:	Date:	Checked By:
F.K.	2/28/06	J.J.

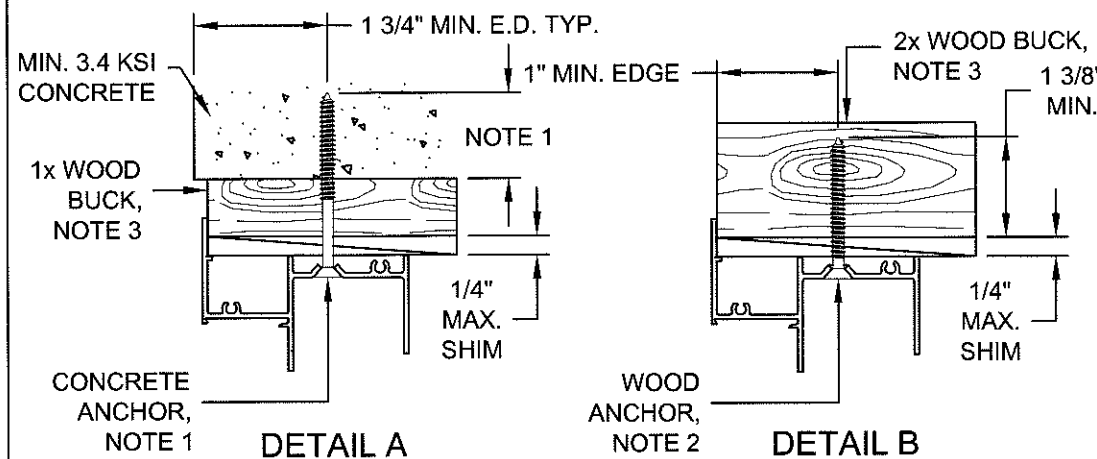
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



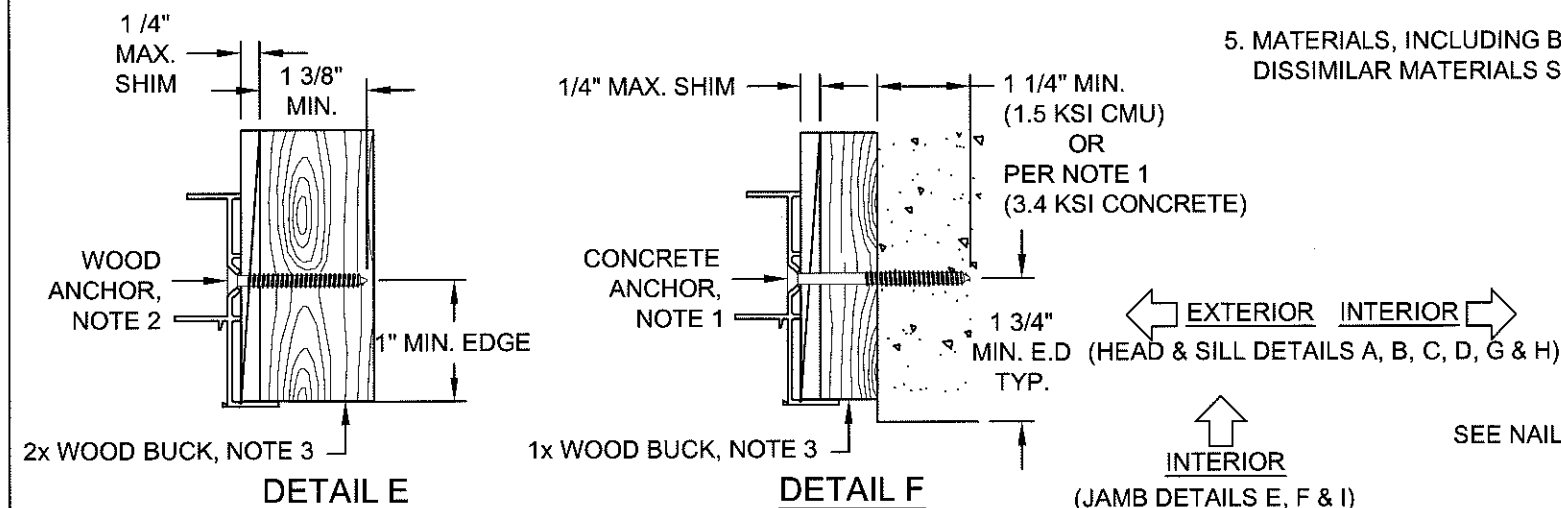
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Title:	ALUM. HORIZONTAL ROLLER WINDOW, IMPACT					
Series/Model:	HR710	Scale:	NTS	Sheet:	10 of 11	Drawing No.
					4127-10	Rev.
						G

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0714.13
Expiration Date Dec. 21, 2021
By *Manuel Perez*
Miami Dade Product Control

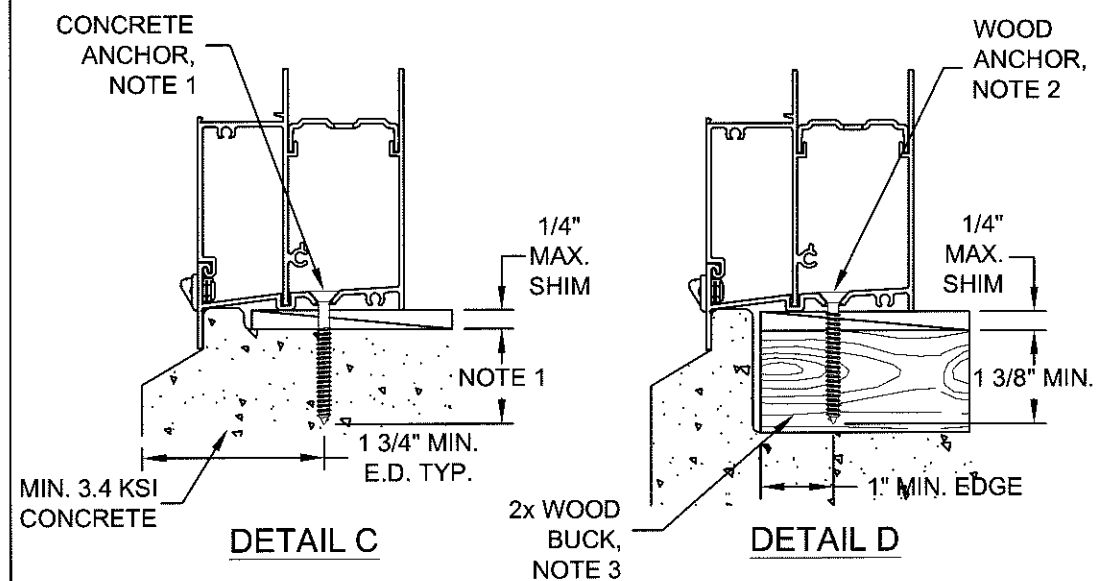




TYPICAL FLANGE FRAME HEAD SECTIONS



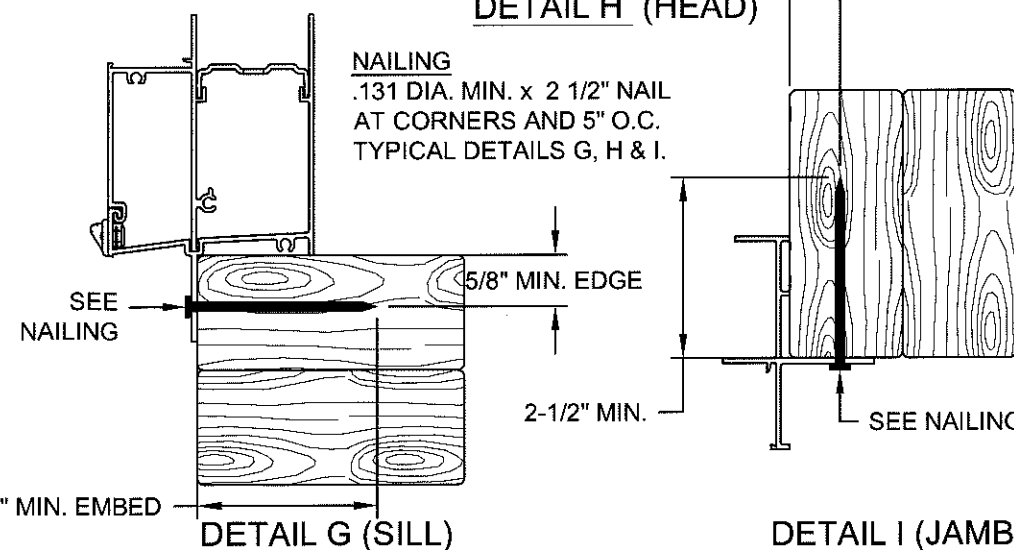
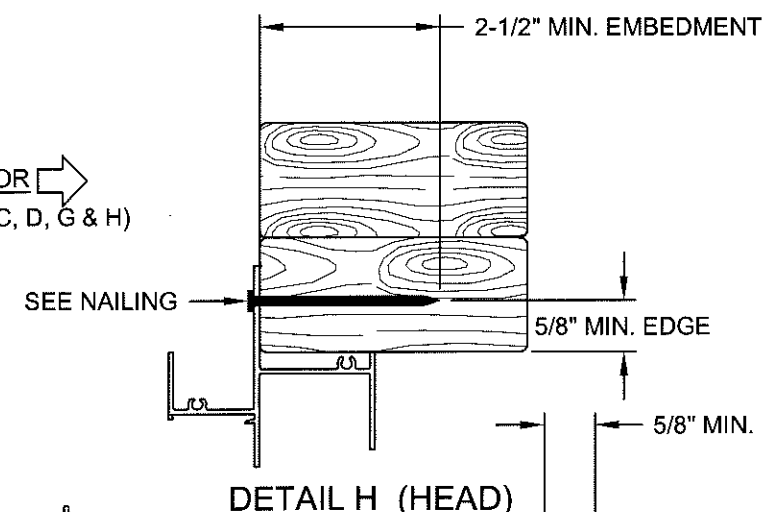
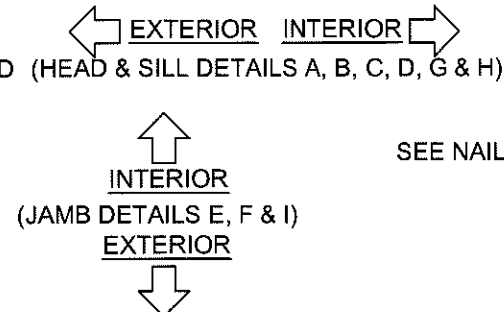
TYPICAL FLANGE FRAME JAMB SECTIONS



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

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Acceptance No. 16-0714.B
Expiration Date Dec. 21, 2021
By *Manuel Perez*
Miami Dade Product Control

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	PGI Visibly Better	Description: ANCHORAGE DETAILS			
Revsd By:	Date:	Revisions:			Title: ALUM. HORIZONTAL ROLLER WINDOW, IMPACT			
Revsd By:	Date:	Revisions:			Series/Model:	Scale:	Sheet:	Drawing No.
Drawn By:	Date:	Checked By:	Date:		HR710	Half	11 of 11	4127-10
F.K.	2/28/06	J.J.	3/23/06					Rev: G