



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

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/economy](http://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-510 Vinyl" White PVC Horizontal Rolling Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 5191-2, titled "Vinyl Horiz. Roller Window, Impact-resistant", sheets 1 through 10 of 10, dated 08/12/09, with revision C dated 05/29/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

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

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

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

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

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

This NOA revises and renews NOA# 11-1114.06 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



*MP*  
7/24/15

NOA No. 15-0612.14  
Expiration Date: February 17, 2021  
Approval Date: July 30 2015  
Page 1

**PGT Industries, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 09-0901.07)*
2. Drawing No. 5191-2, titled "Vinyl Horiz. Roller Window, Impact-resistant", sheets 1 through 10 of 10, dated 08/12/09, with revision C dated 05/29/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

**B. TESTS**

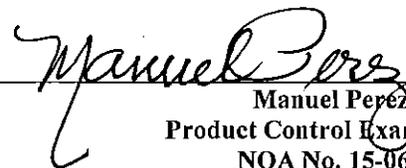
1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94along with marked-up drawings and installation diagram of a series HR-510 vinyl horizontal sliding window (OX), prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-5916, dated 06/18/09, signed and sealed by Julio E. Gonzalez, P.E.  
*(Submitted under NOA No. 09-0901.07)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated 06/05/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with **ASTM E1300-04**

**D. QUALITY ASSURANCE**

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

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 15-0612.14

Expiration Date: February 17, 2021  
Approval Date: July 30 2015

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. **12-1017.02** issued to **Quanex Building Products, Inc.**, for their **"White Rigid PVC Exterior Extrusions for Windows and Doors"** dated 02/07/13, expiring on 12/26/16.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated June 5, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated June 5, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **11-1114.06**, issued to PGT Industries for their Series **"HR-510" White PVC Horizontal Roller Window - L.M.I.**" approved on 02/09/12 and expiring on 02/17/16.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 15-0612.14

Expiration Date: February 17, 2021  
Approval Date: July 30 2015

**Ⓐ IMPACT-RESISTANT HORIZONTAL ROLLER BOX FRAME AND INTEGRAL FIN WINDOWS**

**GENERAL NOTES:**

**1. GLAZING OPTIONS:**

- A. 7/8" IG -5/16" H/H - SG + 7/16" - AIR + 1/8"A CAP
- B. 7/8" IG -5/16" H/H - SG + 7/16" - AIR + 1/8"T CAP

**2. CONFIGURATIONS: XO AND OX.**

**3. DESIGN PRESSURES: +60/-70 PSF (ALL GLASS TYPES LISTED)**  
**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. SHUTTERS ARE NOT REQUIRED. FOR INSTALLATION OF UNITS 30' ABOVE GRADE IN THE HVHZ, THE EXTERIOR CAP OF INSULATED GLASS UNITS MUST BE TEMPERED.**

**5. ANCHORAGE: ANCHOR SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. APPROVED ANCHORS: 1, 3/16" ELCO ULTRACON) 2, #10 STEEL SCREW (G5) AND 3. (.120) X 1-1/2" ROOFING NAIL FOR FIN.**

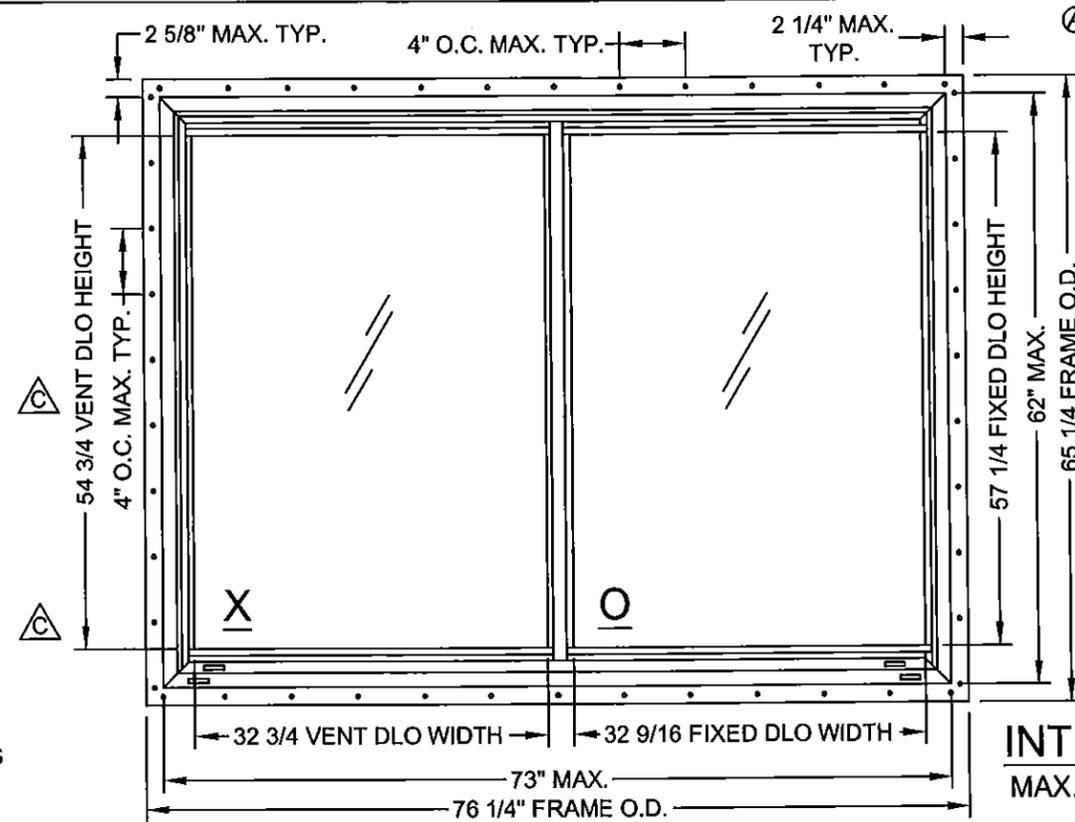
**6. REFERENCES: TEST REPORTS FTL-5916; ELCO TEXTRON NOA ANSI/AF&PA; NDS FOR WOOD CONSTRUCTION; ADM ALUMINUM DESIGN MANUAL; QUANEX BUILDING PRODUCTS (WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS AND DOORS)**

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

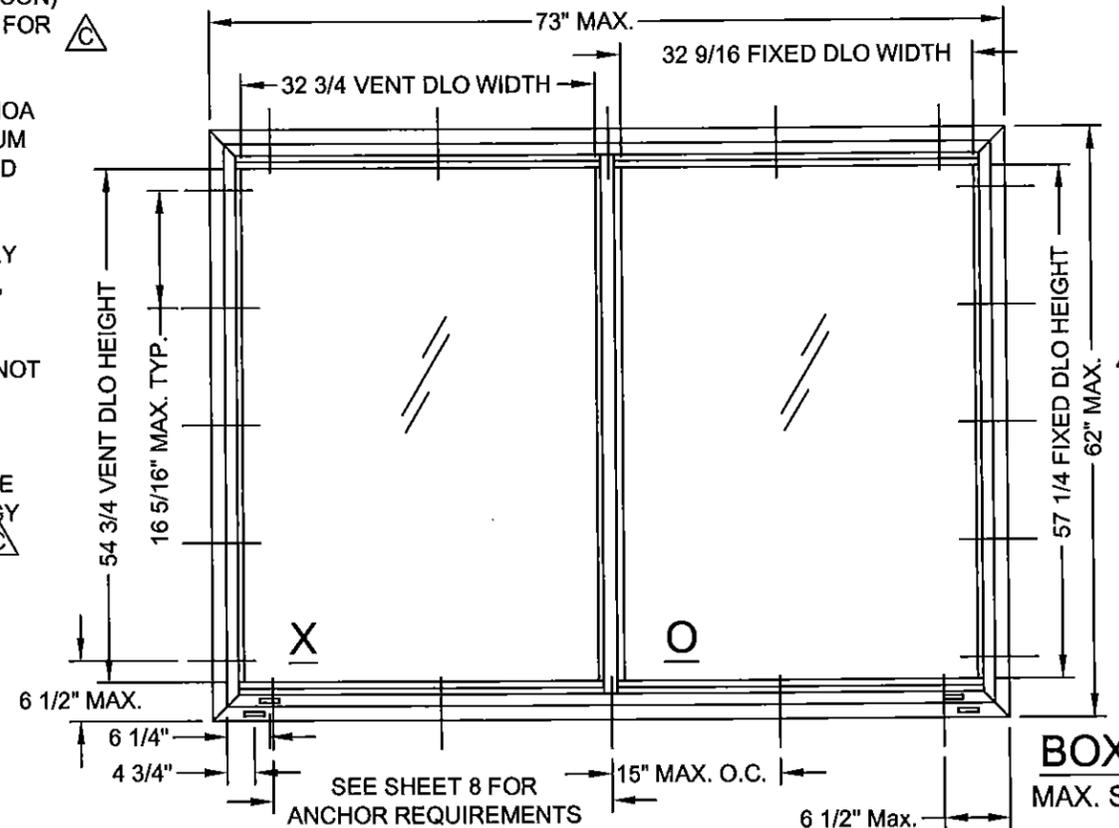
**8. SHIM EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE, USING SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.**

**9. ADHESIVE SEALANT SHALL BE USED BETWEEN SUBSTRATE AND FLANGE OR FIN. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS.**

**10. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE (G=0.55), CONCRETE (MIN. 3.5 KSI) AND CONCRETE MASONRY UNITS COMPLYING WITH ASTM C-90.**



**INTEGRAL FIN**  
**MAX. SIZE = 73" X 62"**



**BOX FRAME**  
**MAX. SIZE = 73" X 62"**

Design Pressure Rating	Impact Rating
+ 60 /- 70 PSF	Large and Small Missile Impact (When using a tempered exterior glass cap)
+ 60 /- 70 PSF	Large Missile Impact Only (When using an annealed exterior glass cap)

**NOA DRAWING TABLE OF CONTENTS**

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ANCHORAGE SPACING, BOX FRAME... 8	
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"SG"-SENTRYGLAS® BY KURARAY AMERICA, INC.

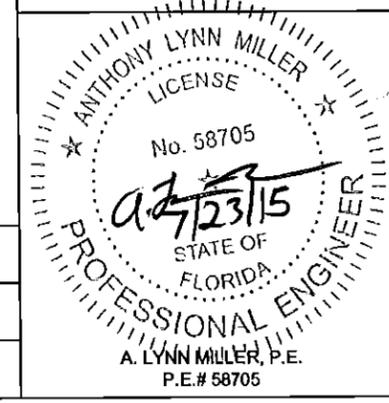
Revised By:	Date:	Revisions:	EDIT NOTES FOR FBC 2014/REVISE MAX HEIGHT
SC	05/29/15	C	EDIT NOTES FOR FBC 2014/REVISE MAX HEIGHT
J.J.	10/17/11	B	FBC 2010 CODE CHANGE
J.R.	01/18/10	A	Added DP/Impact box frame, changed title above note
Drawn By:	Date:	Checked By:	Date:
J.R.	08/12/09		

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 FL COA #29296

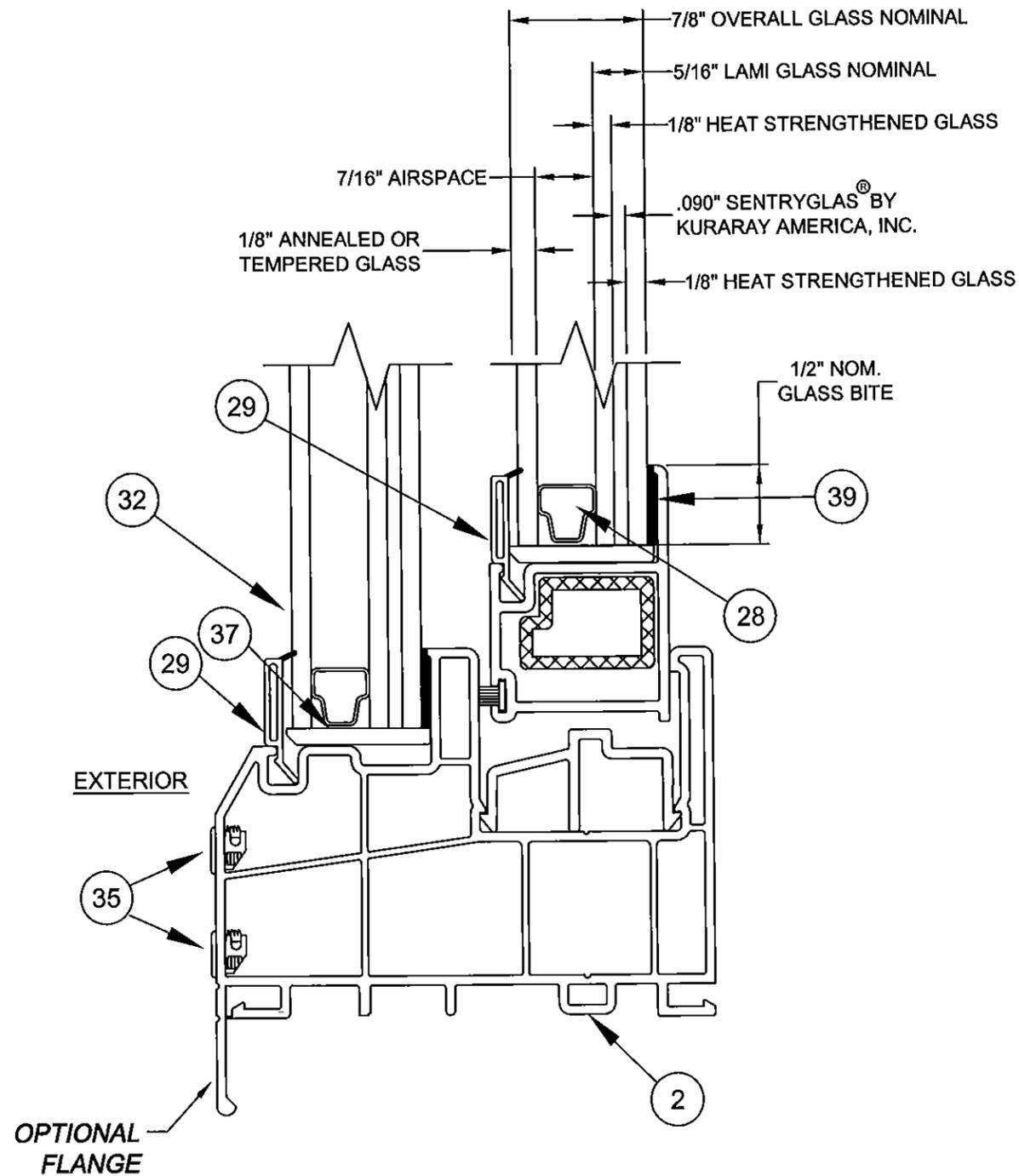


Description: <b>ELEVATIONS &amp; ANCHORAGE</b>			
Title: <b>Vinyl Horiz. Roller Window, Impact-resistant</b>			
Series/Model: HR510	Scale: NTS	Sheet: 1 of 10	Drawing No. 5191-2
			Rev: C

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 15-0612.14  
 Expiration Date Feb. 17, 2021  
 By *Manuel*  
 Miami Dade Product Control

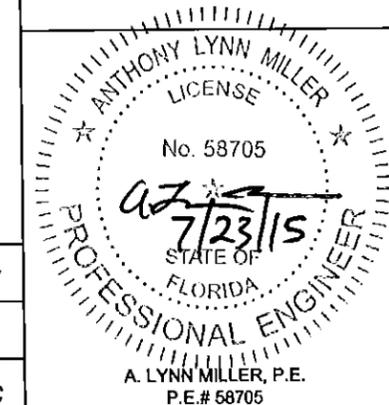


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**7/8" LAMI I.G. GLAZING DETAIL  
WITH 5/16" LAMI GLASS AND 1/8" CAP**

PRODUCT REVISED  
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Acceptance No **15-0612-14**  
Expiration Date **Feb 17, 2021**  
By *Manuel Perez*  
Miami Dade Product Control



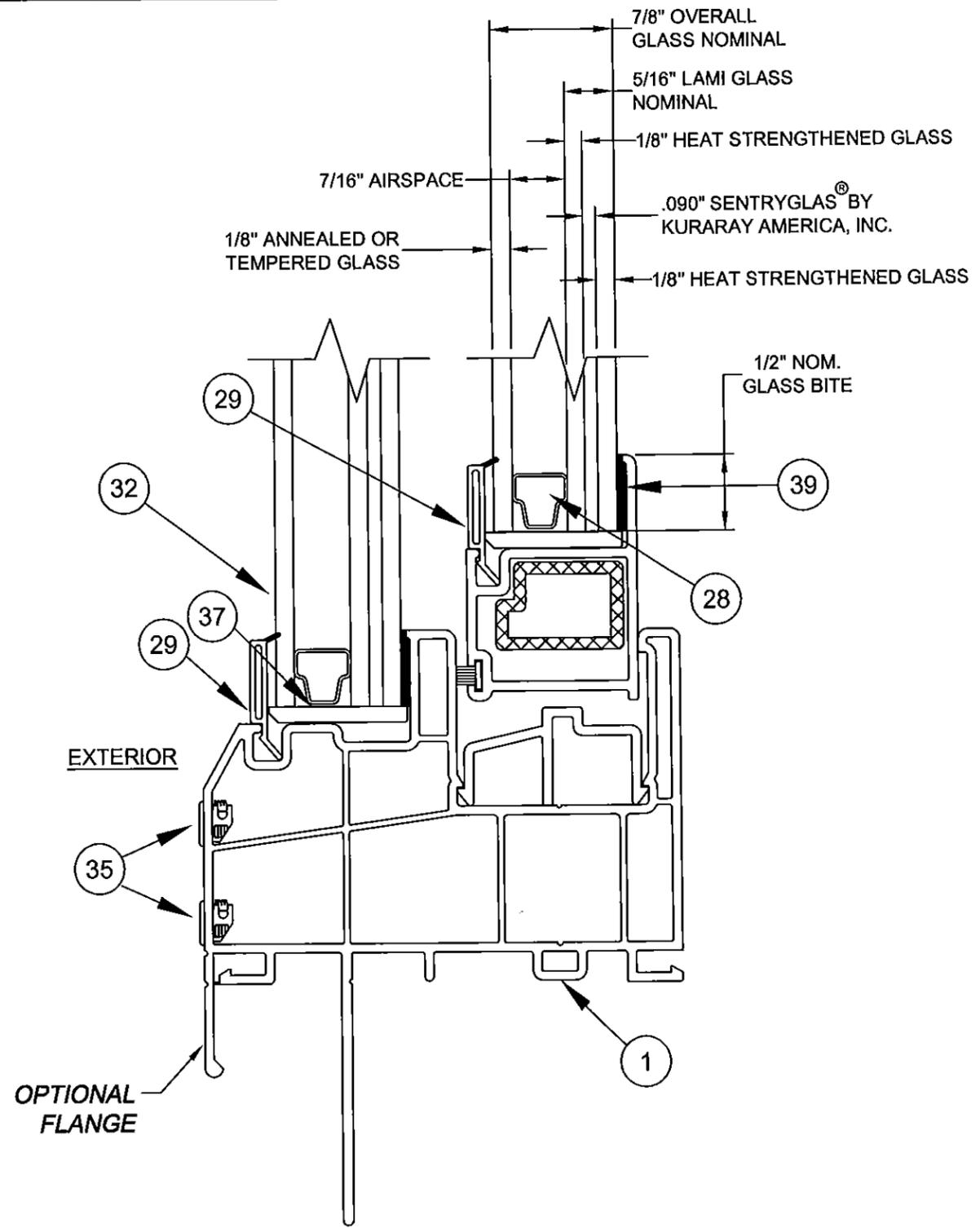
Revised By: SC	Date: 05/29/15	Revisions: C	NO CHANGE THIS SHEET
Revised By: J.J.	Date: 10/17/11	Revisions: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/18/10	Revisions: A	Changed glass make up, drawing title.
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
  
P.O. BOX 1529  
NOKOMIS, FL 34274  
FL COA #29296



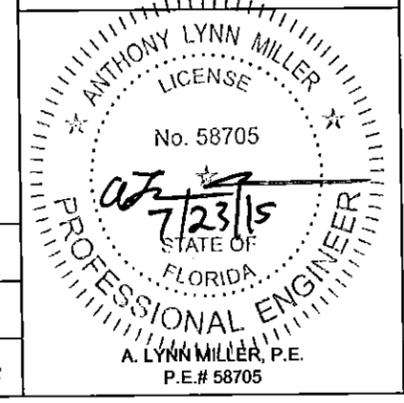
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Title: <b>Vinyl Horiz. Roller Window, Impact-resistant</b>				
Series/Model: HR510	Scale: 1:1	Sheet: 2 of 10	Drawing No. 5191-2	Rev: C

Ⓐ



**7/8" LAMI I.G. GLAZING DETAIL  
WITH 5/16" LAMI GLASS AND 1/8" CAP**

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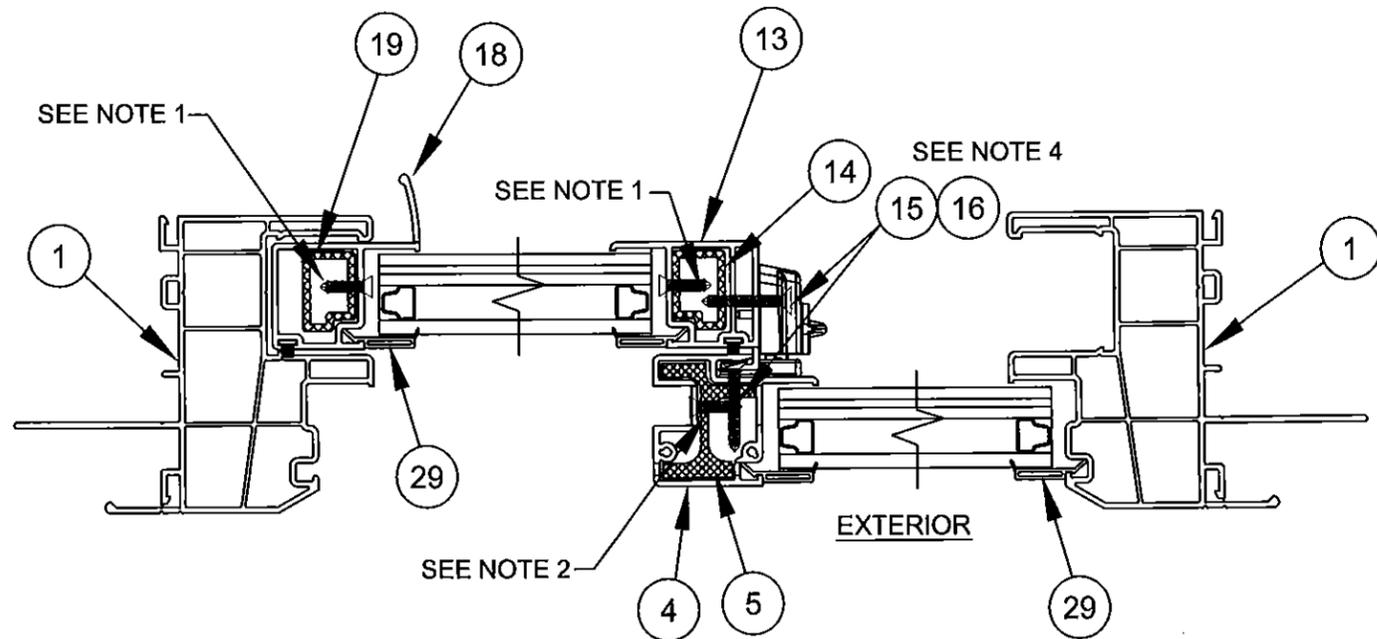


Revised By: <b>SC</b>	Date: <b>05/29/15</b>	Revisions: <b>C</b>	<b>NO CHANGE THIS SHEET</b>
Revised By: <b>J.J.</b>	Date: <b>10/17/11</b>	Revisions: <b>B</b>	<b>NO CHANGE THIS SHEET</b>
Revised By: <b>J.R.</b>	Date: <b>01/18/10</b>	Revisions: <b>A</b>	<b>Changed glass make up, drawing title.</b>
Drawn By: <b>J.R.</b>	Date: <b>08/12/09</b>	Checked By:	Date:

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N. VENICE, FL 34275  
  
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FL COA #29296



Description: <b>GLAZING DETAILS - INTEGRAL FIN FRAME</b>			
Title: <b>Vinyl Horiz. Roller Window, Impact-resistant</b>			
Series/Model: <b>HR510</b>	Scale: <b>1:1</b>	Sheet: <b>3 of 10</b>	Drawing No. <b>5191-2</b>
			Rev: <b>C</b>



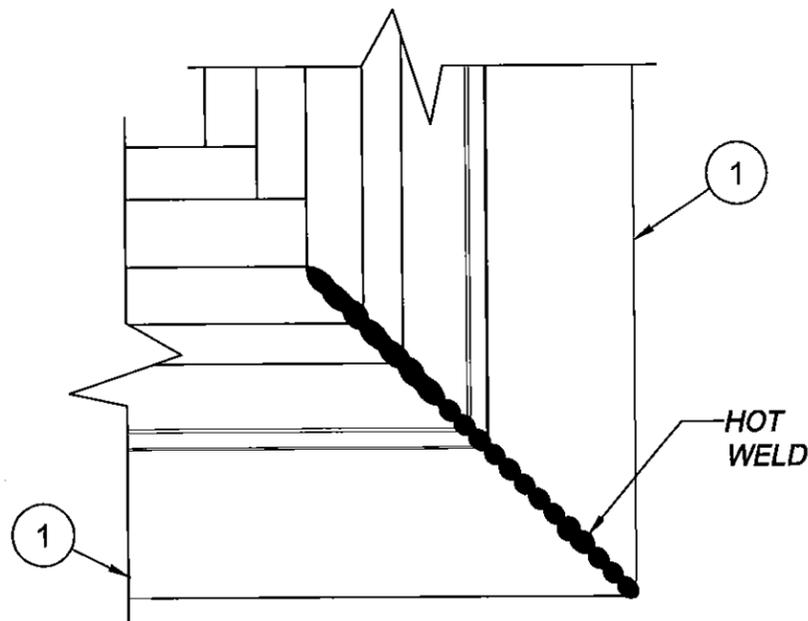
**DETAIL A**  
LEFT JAMB SECTION

**DETAIL B**  
MEETING RAIL SECTION

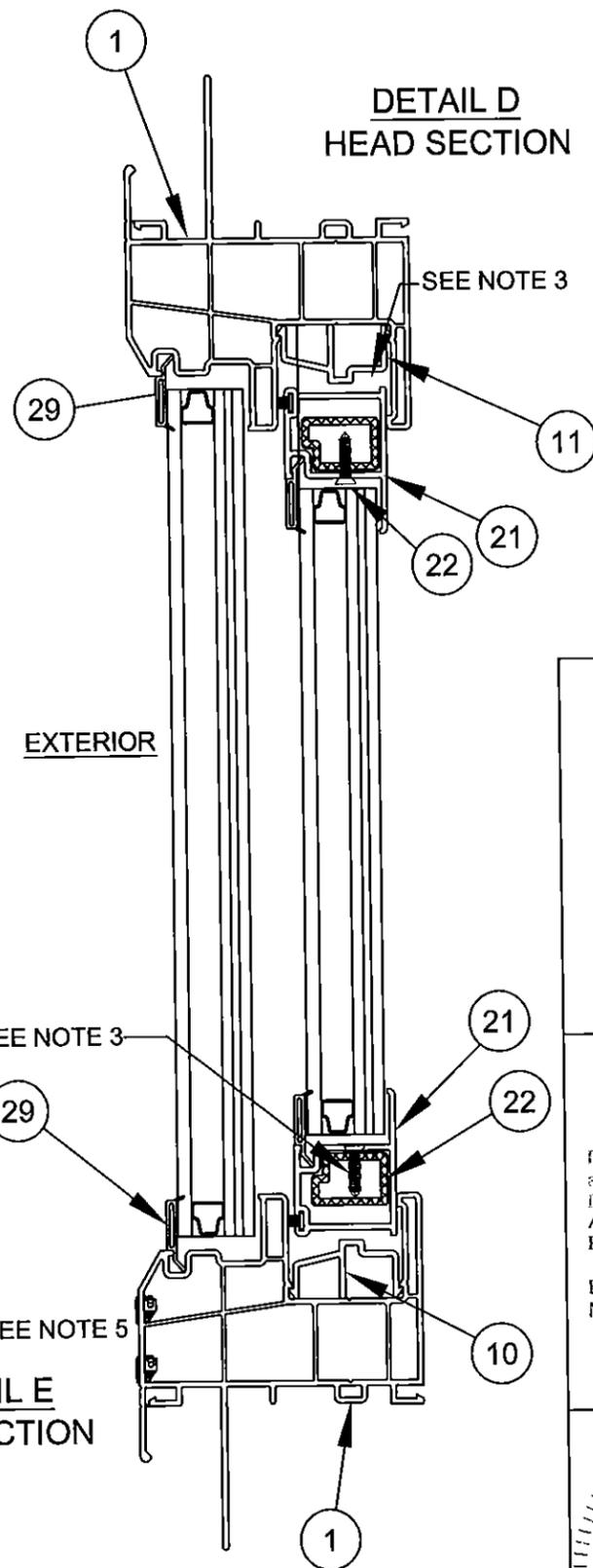
**DETAIL C**  
RIGHT JAMB SECTION

**NOTES:**

- 1. #6 x 1/2 FL SMS, LOCATED AT 4 1/2" FROM EACH END AND AT 16" O.C.
- 2. #6 x 3/8 FL SMS, LOCATED AT 4 1/2" FROM EACH END AND AT 16" O.C.
- 3. #6 x 1/2 FL SMS, LOCATED AT 4 1/2" FROM EACH END.
- 4. CAM LOCKS:  
(2) AT 7" EACH END
- 5. WEEPHOLES ARE 1" X 3/16". SEE SHEET 1 FOR LOCATIONS.



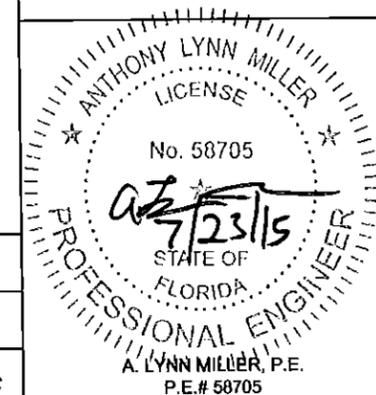
**HOT WELD CORNER ASSEMBLY**  
(INTEGRAL FIN)



**DETAIL D**  
HEAD SECTION

**DETAIL E**  
SILL SECTION

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Miami Dade Product Control

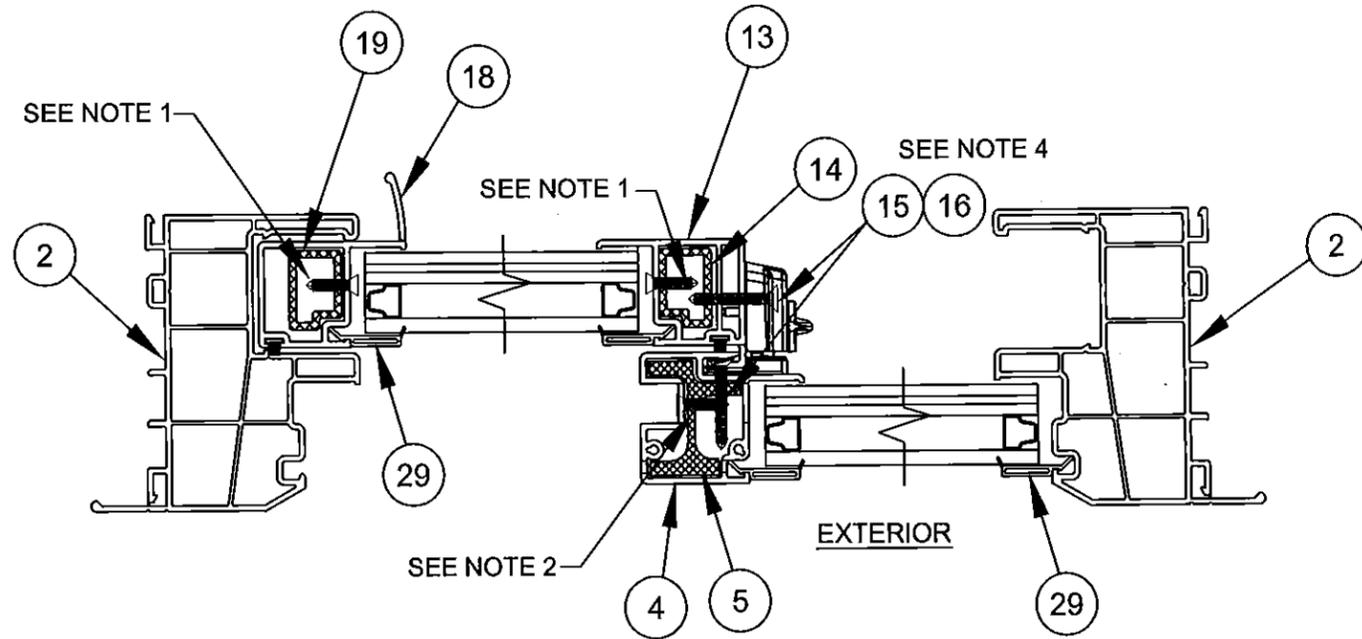


Revised By: SC	Date: 05/29/15	Revisions: C	NO CHANGE THIS SHEET
Revised By: J.J.	Date: 10/17/11	Revisions: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/18/10	Revisions: A	No changes this sheet.
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:

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NOKOMIS, FL 34274  
FL COA #29296



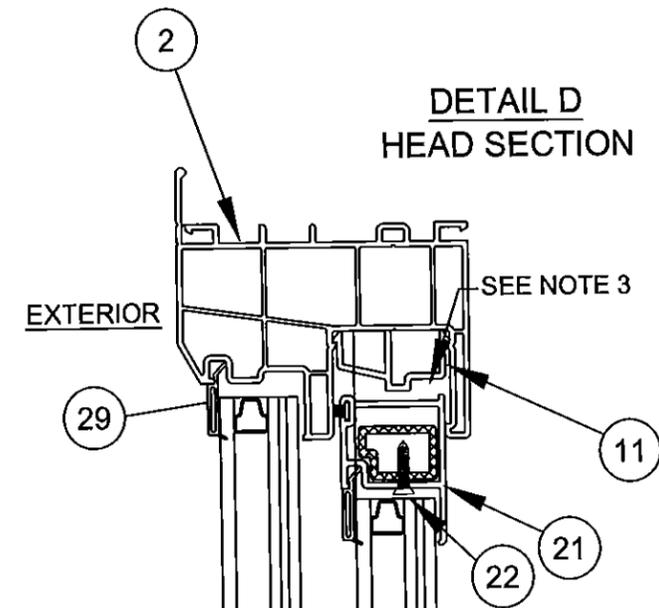
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Title: <b>Vinyl Horiz. Roller Window, Impact-resistant</b>			
Series/Model: HR510	Scale: 1:2	Sheet: 4 of 10	Drawing No. 5191-2
			Rev: C



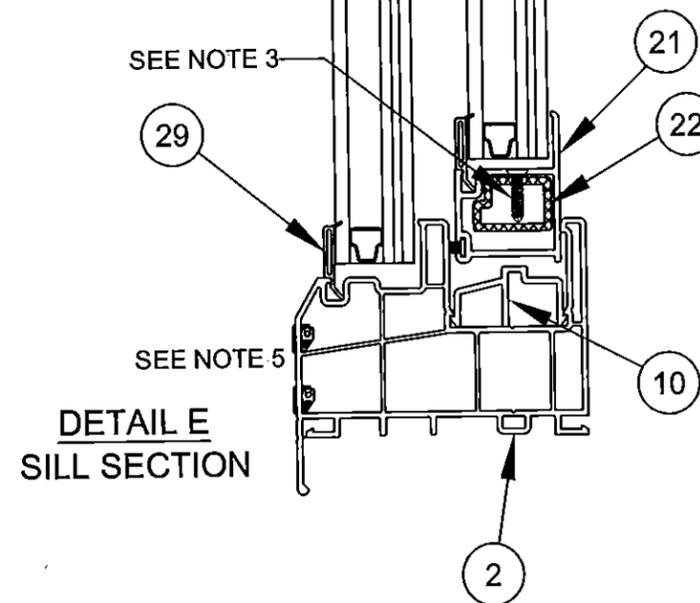
**DETAIL A**  
LEFT JAMB SECTION

**DETAIL B**  
MEETING RAIL SECTION

**DETAIL C**  
RIGHT JAMB SECTION



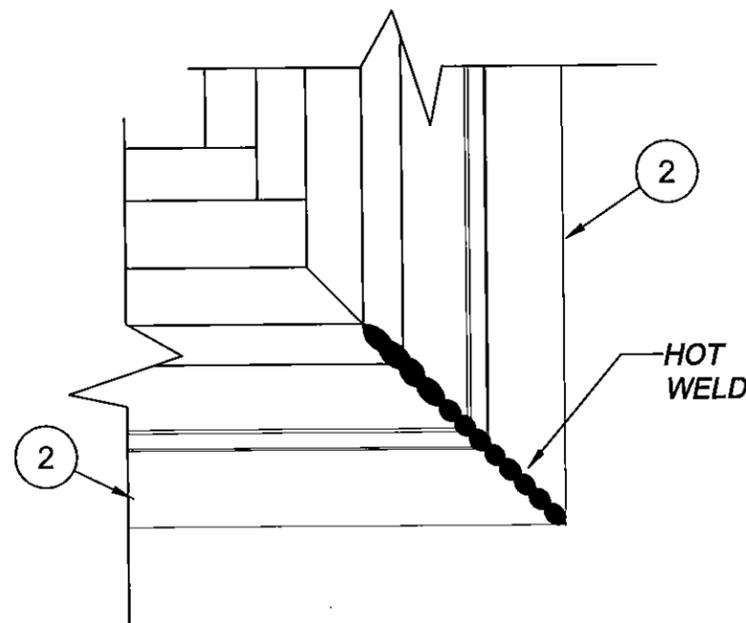
**DETAIL D**  
HEAD SECTION



**DETAIL E**  
SILL SECTION

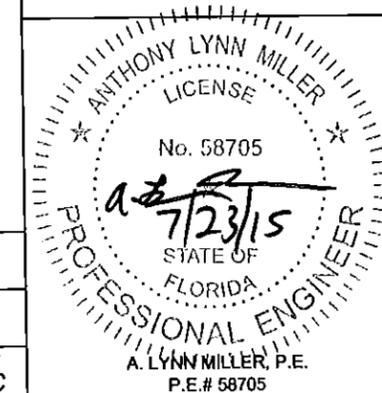
**NOTES:**

1. #6 x 1/2 FL SMS, LOCATED AT 4 1/2" FROM EACH END AND AT 16" O.C.
2. #6 x 3/8 FL SMS, LOCATED AT 4 1/2" FROM EACH END AND AT 16" O.C.
3. #6 x 1/2 FL SMS, LOCATED AT 4 1/2" FROM EACH END.
4. CAM LOCKS:  
(2) AT 7" EACH END
5. WEEPHOLES ARE 1" X 3/16". SEE SHEET 1 FOR LOCATIONS.



**HOT WELD CORNER ASSEMBLY**  
(BOX FRAME)

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as complying with the Florida  
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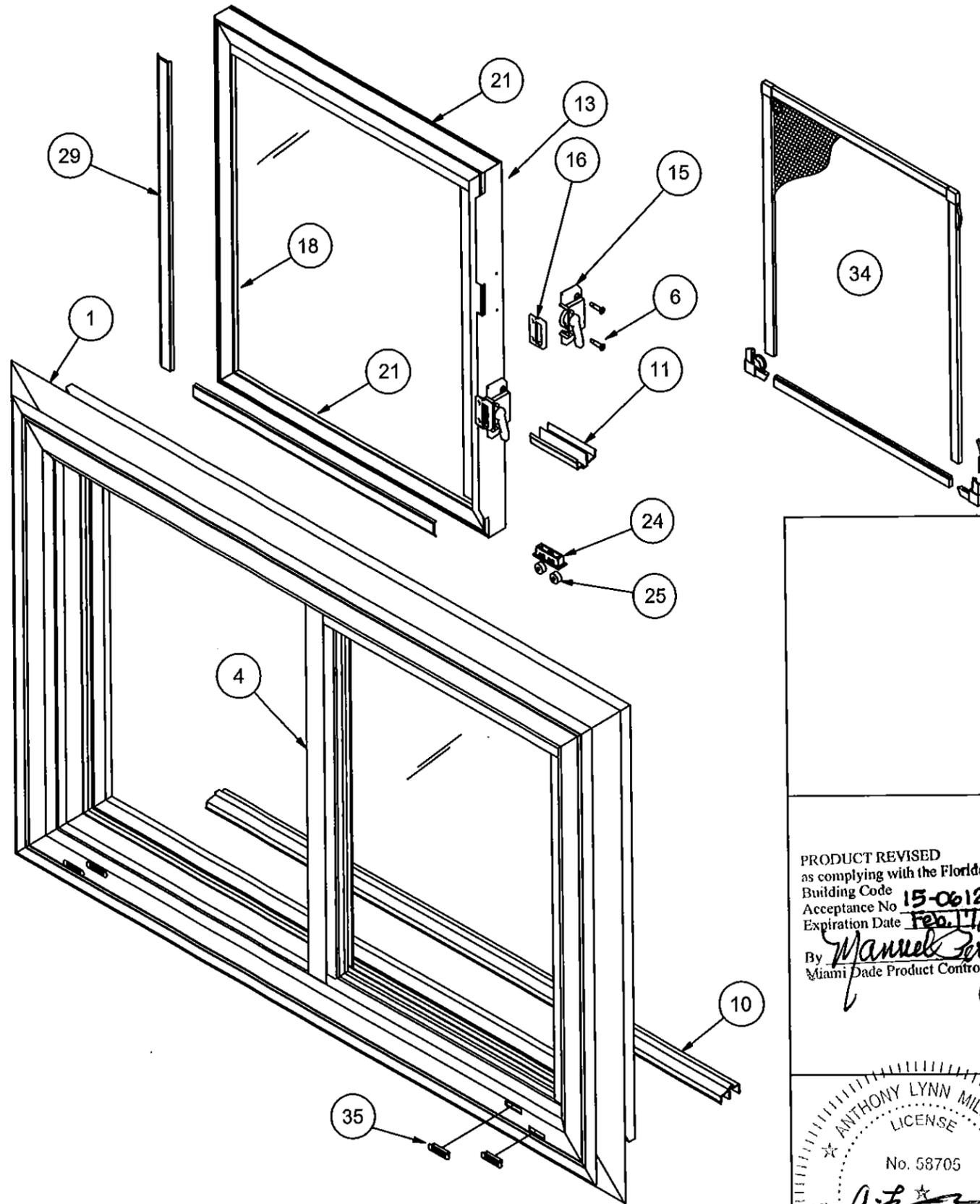
1070 TECHNOLOGY DRIVE  
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P.O. BOX 1529  
NOKOMIS, FL 34274  
FL COA #29296



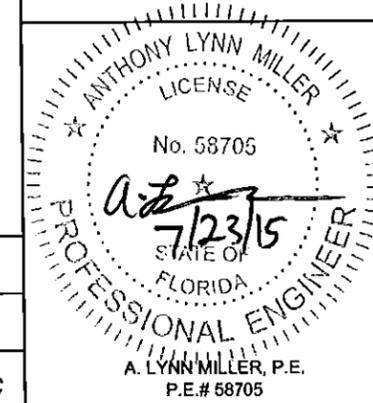
Description: CROSS SECTIONS - BOX FRAME				
Title: Vinyl Horiz. Roller Window, Impact-resistant				
Series/Model: HR510	Scale: 1:2	Sheet: 5 of 10	Drawing No.: 5191-2	Rev: C

ITEM	DWG NO.	PART #	DESCRIPTION
1	5166	65166	FRAME HEAD, SILL AND JAMBS (FIN ONLY)
2	5189	65189	FRAME HEAD, SILL AND JAMBS (BOX ONLY)
4	5102	65102	FIXED MEETING RAIL
5	5123	65123	FIXED MEETING RAIL - ALUMINUM REINF.
6		76X1FPAW	6 x 1" FH TECH (CAM LOCK, KEEPER)
8		78X312FPABX	SCR. 8X3 1/2" PP TYPE AB (FIXED MR)
9		71669SP	330025 ALUM SCREW SUPPORT PLATES
10	5138	65138	ROLLER TRACK
11	5138	65138	ANTI LIFT
12		71038W	INSTALLATION HOLE PLUGS (BOX ONLY)
13	5105	65105	SASH INTERLOCK RAIL
14	5114	65114	INTERLOCK RAIL - ALUMINUM REINF.
15		76208SLAW	CAM SWEEP LOCKS
16		76133SLKW	CAM SWEEP LOCK KEEPER
17	1644	61644W	WSTP. .187 x .270 FIN SEAL
18	5137	65137	SASH SIDE RAIL
19	5114	65114	SIDE RAIL - ALUMINUM REINF.
20	1644	61644W	WSTP. .187 x .270 FIN SEAL
21	5106	65106	SASH TOP & BOTTOM RAIL
22	5114	65114	TOP & BOTTOM RAIL - ALUMINUM REINF.
23	1644	61644W	WSTP. .187 x .270 FIN SEAL
24	225-1	42112HD	ROLLER HOUSING
25		7BRWL2	BRASS WHEELS
26		7612FW	6 x 1/2 FH PHIL #2PT S/D/S
27		7638FW	7 x 3/8 FH PHIL #2PT S/D/S
28A		6SWMGK716	7/16" SUPER-SPACER
28B		6SWMGK38	3/8" SUPER-SPACER
29A	5112	65112	GLAZING BEAD, 1-LITE
32A (NOT USED)			7/8" LAMI I.G. GLASS; 1/8" TEMPERED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
32B (NOT USED)			7/8" LAMI I.G. GLASS; 1/8" ANNEALED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
34			SCREEN
35			WEEP COVERS
37			SETTING BLOCK
39			SILICONE DOW 1199
40			

NOTE:  
ALL EXTRUDED VINYL MANUFACTURED  
BY QUANEX BUILDING PRODUCTS, INC.



PRODUCT REVISED  
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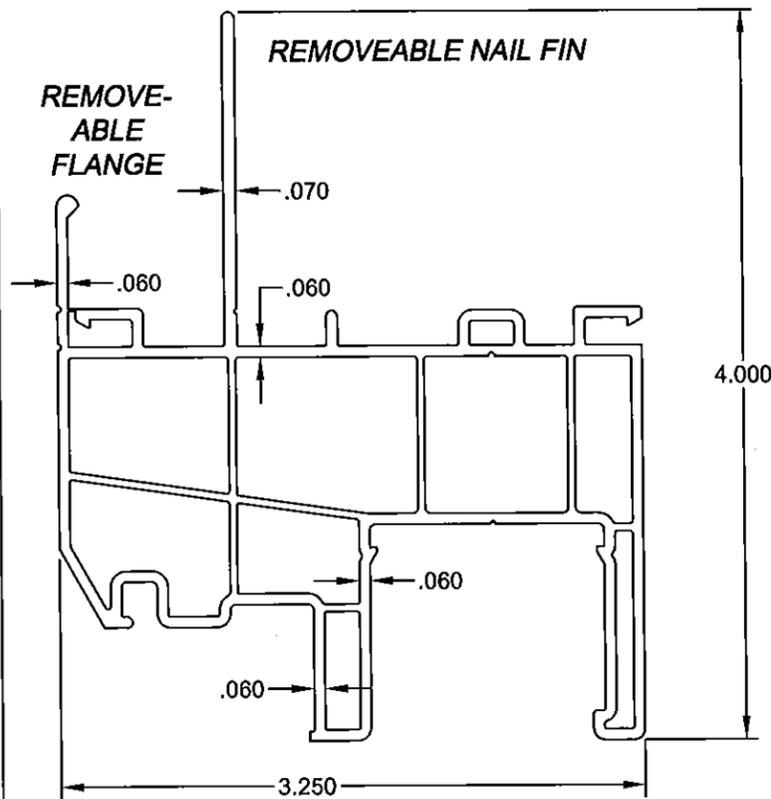
Revised By: SC	Date: 05/29/15	Revision: C	NO CHANGE THIS SHEET
Revised By: J.J.	Date: 10/17/11	Revision: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/18/10	Revision: A	Removed 3/4" glass and beading from BOM.
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274  
FL COA #29296

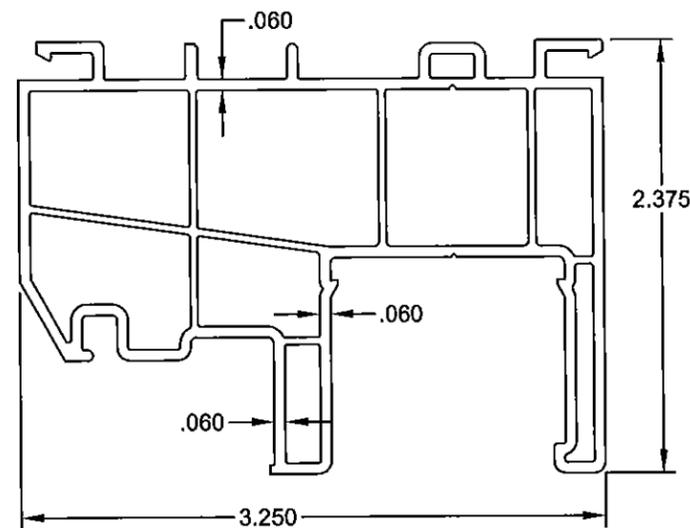


Description: BOM & EXPLODED VIEW			
Title: Vinyl Horiz. Roller Window, Impact-resistant			
Series/Model: HR610	Scale: NTS	Sheet: 6 of 10	Drawing No.: 5191-2
			Rev: C

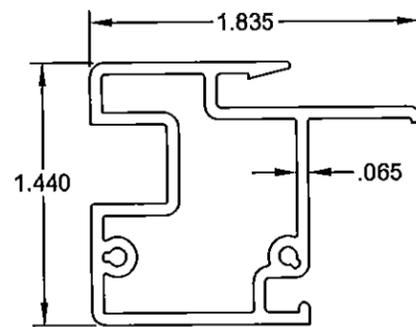
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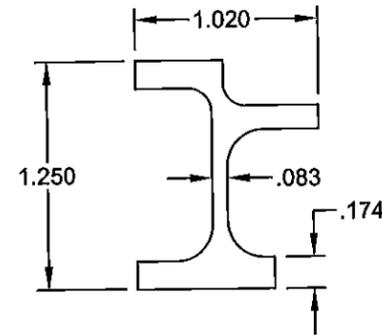
1 **I.F. FRAME**  
DWG #5116  
RIGID PVC



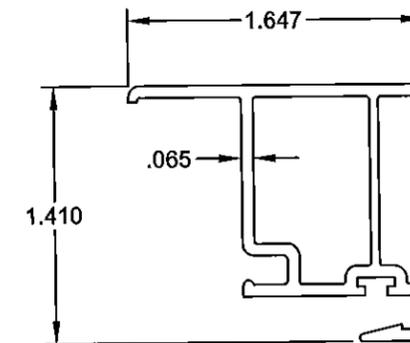
2 **BOX FRAME**  
DWG #5189  
RIGID PVC



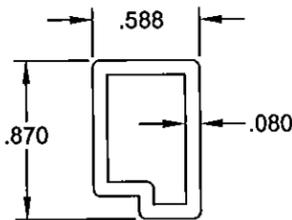
4 **FIXED MEETING RAIL**  
DWG #5102  
RIGID PVC



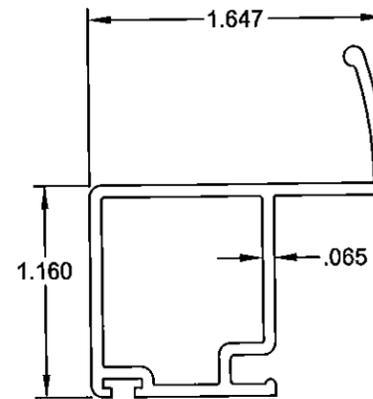
5 **FIXED MEETING RAIL REINFORCEMENT**  
DWG #5123  
AI 6005-T6



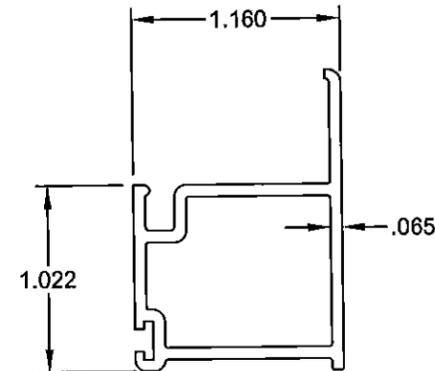
13 **SASH INTERLOCK RAIL**  
DWG #5105  
RIGID PVC



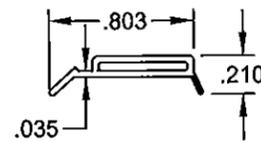
14 19 22 **SASH INTERLOCK RAIL REINFORCEMENT**  
DWG #5114  
AI 6063-T6



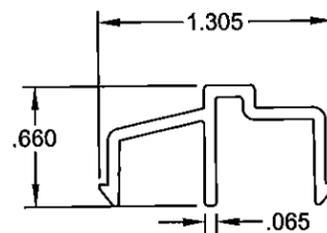
18 **SASH SIDE RAIL**  
DWG #65137  
RIGID PVC



21 **SASH TOP/BOTTOM RAIL**  
DWG #65106  
RIGID PVC

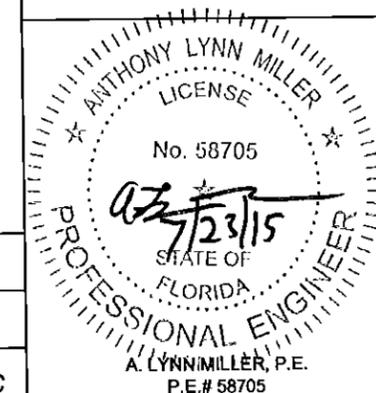


29A **I.G. BEAD**  
DWG #5112  
DUAL PVC



10 **ROLLER TRACK /ANTI LIFT**  
DWG #5138  
RIGID PVC

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-0612.14  
Expiration Date Feb. 11, 2021  
By *Manuel Poy*  
Miami Dade Product Control



Revised By:	Date:	Revisions:	
SC	05/29/15	C	NO CHANGE THIS SHEET
J.J.	10/17/11	B	NO CHANGE THIS SHEET
J.R.	01/18/10	A	Added wall thickness to all extrusions, removed beading for 3/4" glass.
Drawn By:	Date:	Checked By:	Date:
J.R.	08/12/09		

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274  
FL COA #29296



Description: <b>EXTRUSION CROSS SECTIONS</b>			
Title: <b>Vinyl Horiz. Roller Window, Impact-resistant</b>			
Series/Model: HR510	Scale: 1:1	Sheet: 7 of 10	Drawing No. 5191-2
			Rev: C

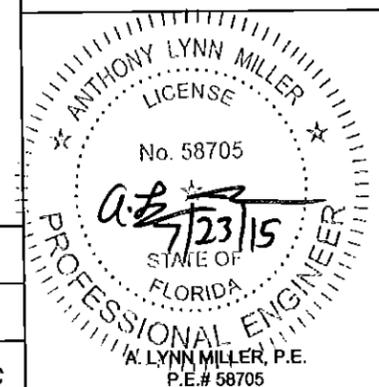
**HEAD, SILL AND JAMB ANCHOR QUANTITIES FOR DESIGN  
PRESSURES OF +60/-70 PSF OR LESS**

		WINDOW HEIGHT (in)							
		24	30	36	42	48	54	60	62
WINDOW WIDTH (in)	ANCHOR LOCATION	# OF ANCHORS REQUIRED (TYPE 1 OR 2) 							
24	Head and Sill	2	2	2	2	2	2	2	2
	Jamb	2	3	3	3	4	4	5	5
36	Head and Sill	3	3	3	3	3	3	3	3
	Jamb	2	3	3	3	4	4	5	5
42	Head and Sill	3	3	3	3	3	3	3	3
	Jamb	2	3	3	3	4	4	5	5
48	Head and Sill	4	4	4	4	4	4	4	4
	Jamb	2	3	3	3	4	4	5	5
54	Head and Sill	4	4	4	4	4	4	4	4
	Jamb	2	3	3	3	4	4	5	5
60	Head and Sill	5	5	5	5	5	5	5	5
	Jamb	2	3	3	3	4	4	5	5
66	Head and Sill	5	5	5	5	5	5	5	5
	Jamb	2	3	3	3	4	4	5	5
72	Head and Sill	5	5	5	5	5	5	6	6
	Jamb	2	3	3	3	4	4	5	5
73	Head and Sill	5	5	5	5	5	5	6	6
	Jamb	2	3	3	3	4	4	5	5

**ANCHORAGE NOTES FOR BOX FRAME:**

1. ANCHOR TYPES: 1 - 3/16" ULTRACONS BY ELCO (FOR MASONRY SUBSTRATES) MINIMUM EDGE DISTANCE OF 1".  
2 - #10 SM SCREWS, GRADE5 (FOR METAL AND WOOD SUBSTRATES) MINIMUM EDGE DISTANCE OF 3/8".
2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS.  
6.5" MAX. FROM ALL CORNERS  
JAMBS - 16.3125" MAX. O.C.  
HEAD/SILL - 15" MAX. O.C.
3. INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.
4. ANCHORAGE SHOWN FOR BOX FRAME WITH OR WITHOUT OPTIONAL FLANGE.
5. FOR INTEGRAL NAIL FIN FRAME ANCHORAGE, SEE SHEET 1 & 10.

PRODUCT REVISED  
as complying with the Florida  
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Acceptance No 15-0612.14  
Expiration Date Feb. 17, 2021  
By Manuel Perez  
Miami Dade Product Control

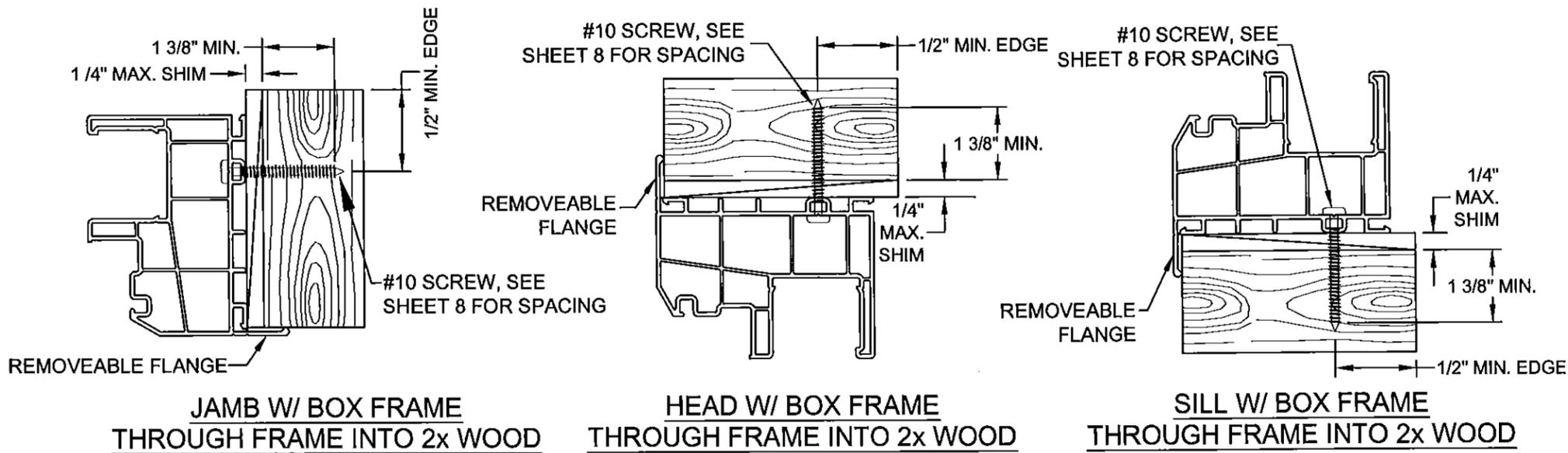


Revised By: SC	Date: 05/29/15	Revisions: C	CHANGE MAX HEIGHT IN ANCHOR TABLE
Revised By: J.J.	Date: 10/17/11	Revisions: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/18/10	Revisions: A	Added additional anchor information.
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:

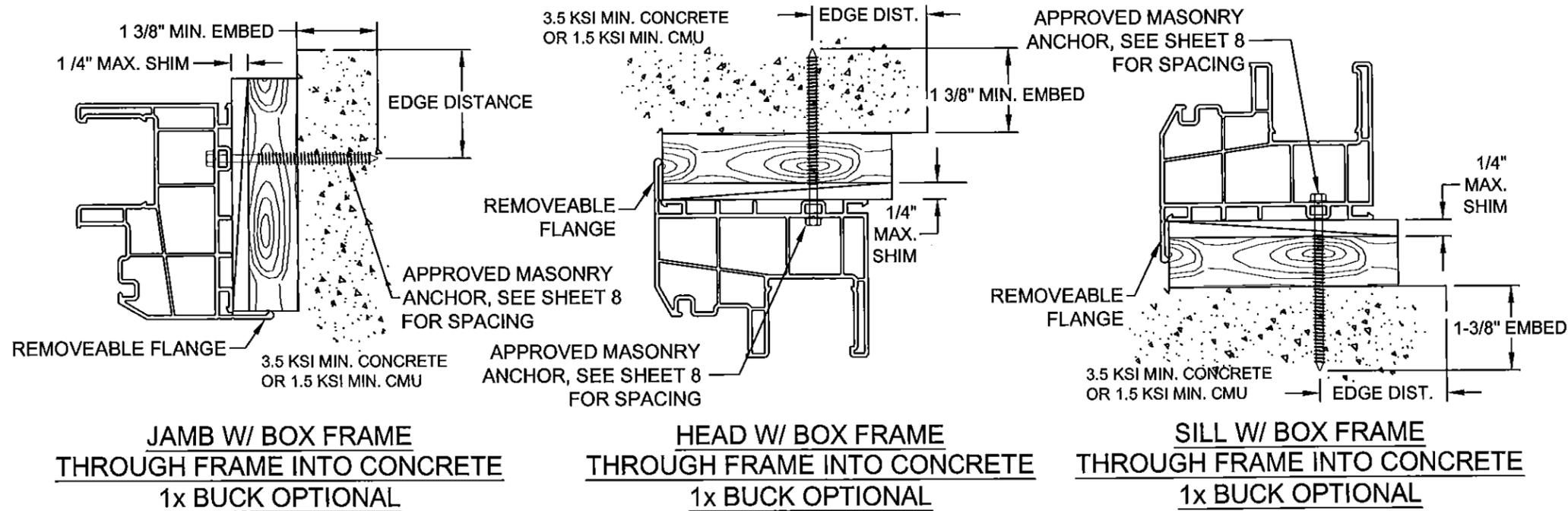
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274  
FL COA #29296



Description: ANCHOR CHARTS			
Title: Vinyl Horiz. Roller Window, Impact-resistant			
Series/Model: HR510	Scale: NTS	Sheet: 8 of 10	Drawing No. 5191-2
			Rev: C



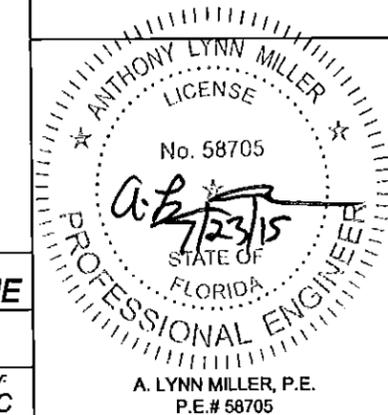
NOTE: INSTALLATION TO THE SUBSTRATE OF 1x OR 2x WOOD BUCKS TO BE ENGINEERED BY OTHERS



**NOTES:**

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 3/16" ULTRACON, EMBEDDED 1 3/8" MIN., DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1" MINIMUM.
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #10 STEEL SCREW, EMBEDDED 1 3/8" MIN..
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. 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 #10 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR ULTRACONS MAY BE USED.

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 Acceptance No. 15-0612-14  
 Expiration Date Feb 17, 2021  
 By *Manuel Perez*  
 Miami Dade Product Control

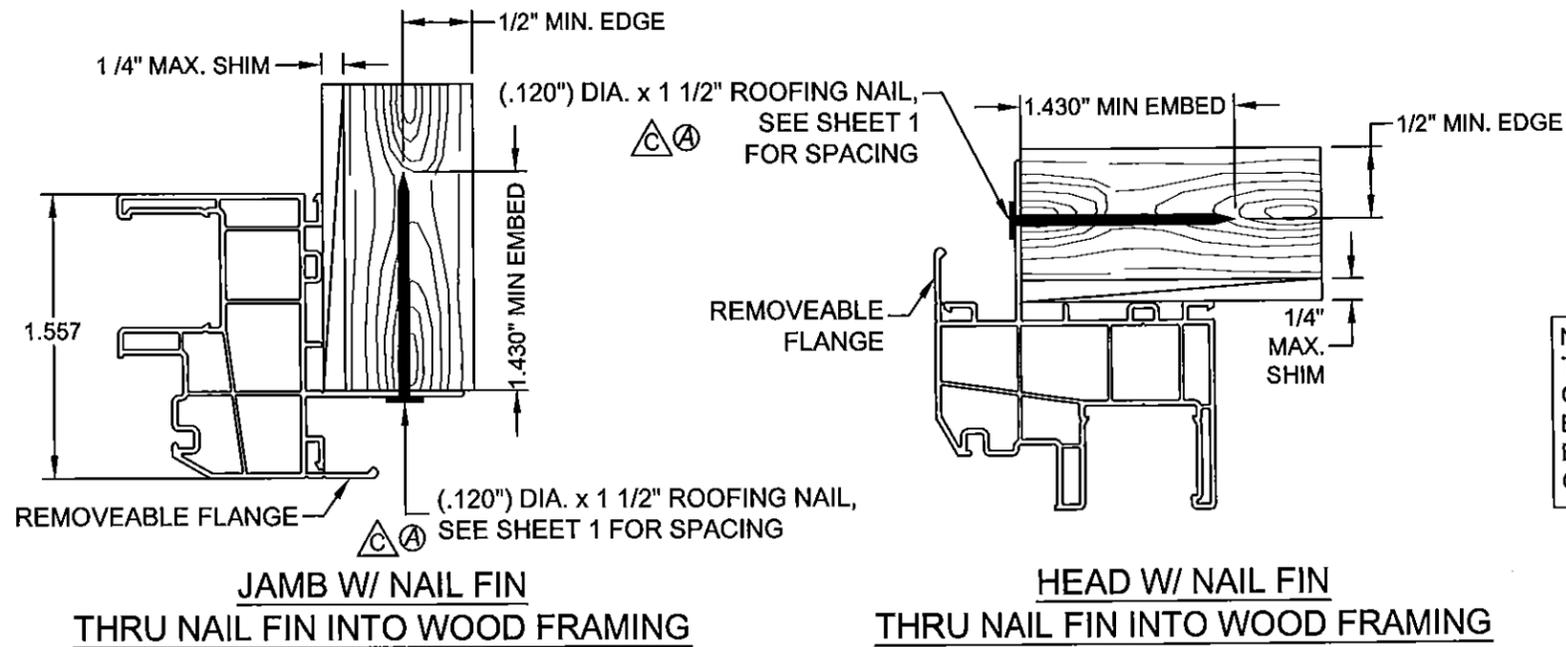


Revised By: SC	Date: 05/29/15	Revisions: C	NO CHANGE THIS SHEET
Revised By: J.J.	Date: 10/17/11	Revisions: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/18/10	Revisions: A	No changes this sheet.
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:

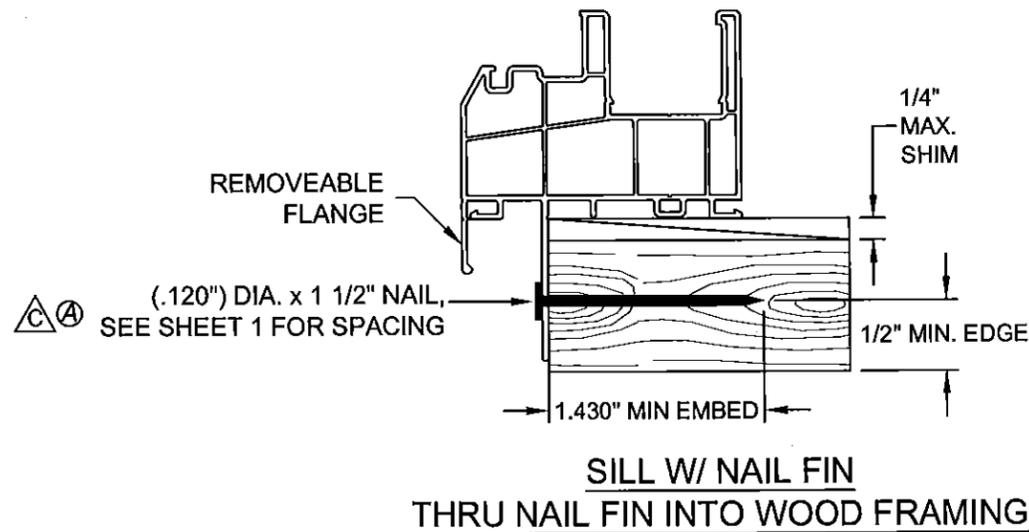
1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 FL COA #29296



Description: <b>INSTALLATION DETAILS-BOX/FLANGE FRAME</b>			
Title: <b>Vinyl Horiz. Roller Window, Impact-resistant</b>			
Series/Model: HR510	Scale: 1:2	Sheet: 9 of 10	Drawing No. 5191-2
			Rev: C



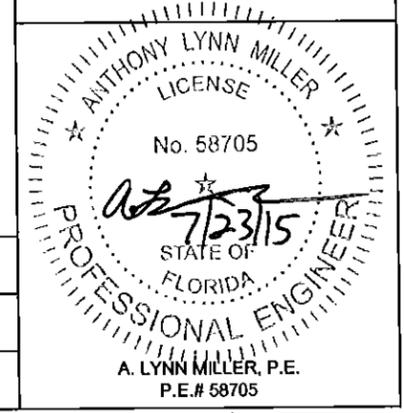
NOTE: INSTALLATION TO THE SUBSTRATE OF 1x OR 2x WOOD BUCKS TO BE ENGINEERED BY OTHERS



NOTES: Ⓐ Ⓒ

1. FOR INTEGRAL FIN APPLICATIONS IN MIAMI-DADE COUNTY, USE (.120") DIA. x 1 1/2" ROOFING NAIL.
2. 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. 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.
3. 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 #10 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR ULTRACONS MAY BE USED.

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 Acceptance No. 15-0612-14  
 Expiration Date Feb. 17, 2021  
 By *Wmuel Perez*  
 Miami Dade Product Control



Revised By: SC	Date: 05/29/15	Revisions: C	CHANGED ANCHOR TO .120 ROOFING NAIL
Revised By: J.J.	Date: 10/17/11	Revisions: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/18/10	Revisions: A	Corrected nail length to 2-1/2", added dia. in decimal.
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:

1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 P.O. BOX 1529  
 NOKOMIS, FL 34274  
 FL COA #29296



Description: <b>INSTALLATION DETAILS - INT. FIN FRAME</b>			
Title: <b>Vinyl Horiz. Roller Window, Impact-resistant</b>			
Series/Model: HR510	Scale: 1:2	Sheet: 10 of 10	Drawing No. 5191-2
			Rev: C