



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

PGT Industries
1070 Technology Drive
Nokomis, 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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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" White PVC Horizontal Roller 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 A dated 01/18/10, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 09-0901.07
Expiration Date: February 17, 2015
Approval Date: February 17, 2010
 Page 1

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **5191-2**, Sheets 1 through 10 of 10, titled "Vinyl Horiz. Roller Window, Impact-resistant", dated 08/12/09, with revision A dated 01/18/10, prepared by manufacturer, signed and sealed by Robert L. Clark, 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, TAS 202-94
along with marked-up drawings and installation diagram of a series HR-510 vinyl horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5916**, dated 06/18/09, signed and sealed by Julio E. Gonzalez, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, complying with FBC-2007, prepared by manufacturer, dated 08/20/09, signed and sealed by Robert L. Clark, P.E.
Complies with ASTM E1300-02/04

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.

F. STATEMENTS

1. Statement letter of conformance, dated August 20, 2009, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of no financial interest, dated August 27, 2009, signed and sealed by Robert L. Clark, P.E.

G. OTHER

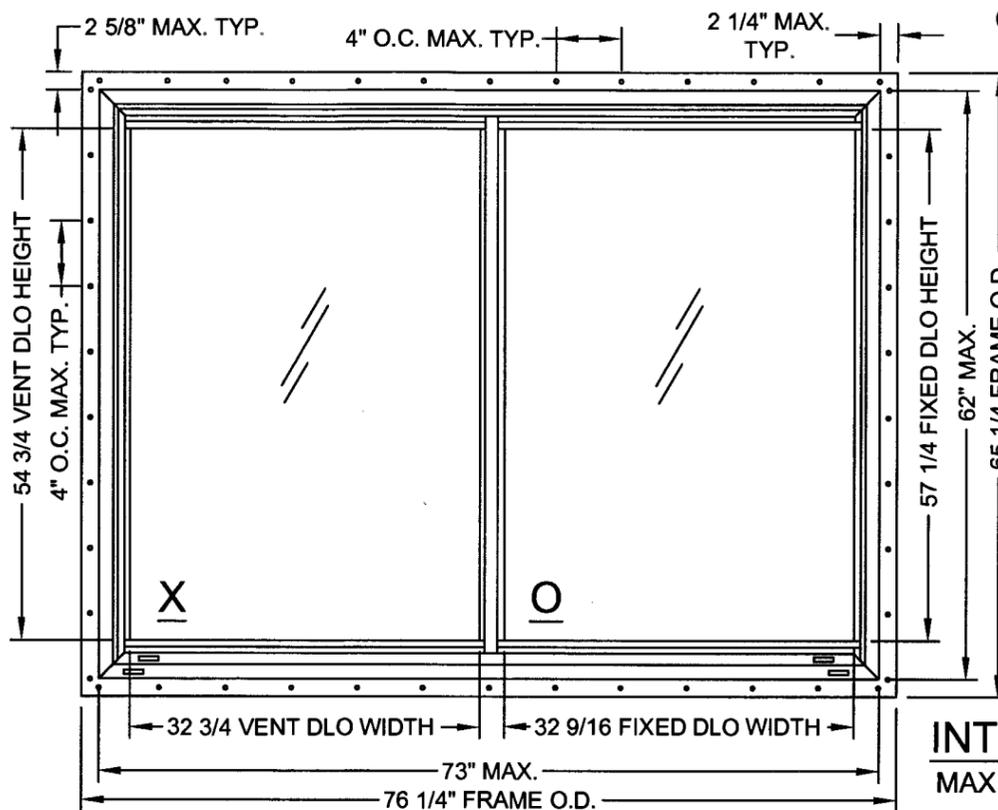
1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0901.07
Expiration Date: February 17, 2015
Approval Date: February 17, 2010

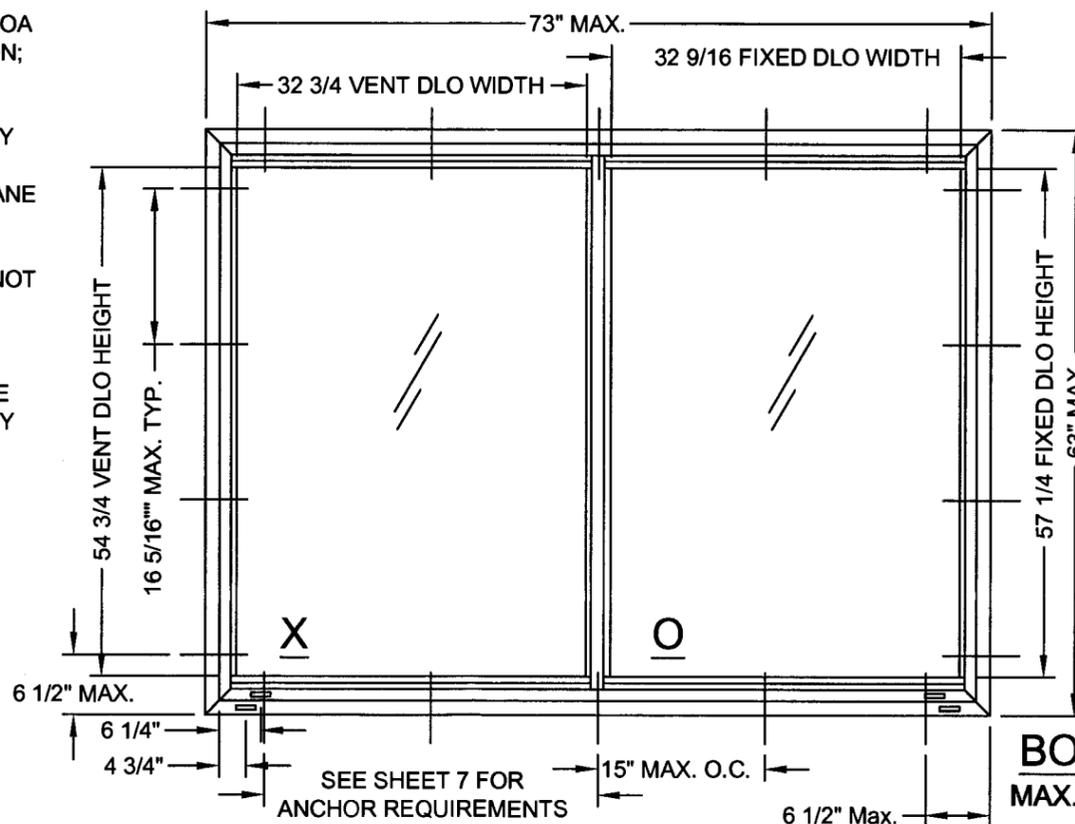
IMPACT-RESISTANT HORIZONTAL ROLLER BOX FRAME AND INTEGRAL FIN WINDOWS

GENERAL NOTES:

1. GLAZING OPTIONS:
 A. 7/8" IG -5/16" H/H - SGP + 7/16" - AIR + 1/8"A CAP
 B. 7/8" IG -5/16" H/H - SGP + 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 1300-02.
 B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-02.
4. SHUTTERS ARE NOT REQUIRED.
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, #10 STEEL SCREW (G5) 2, 3/16" ELCO ULTRACON.
6. REFERENCES: TEST REPORTS FTL-5916; ELCO TEXTRON NOA 07.0425.01; ANSI/AF&PA; NDS-2005 FOR WOOD CONSTRUCTION; ADM-2005 ALUMINUM DESIGN MANUAL.
7. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, 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, 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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Approved as complying with the Florida Building Code
 Date: FEB. 17, 2010
 NOA#: 09-0961.07
 Miami Dade Product Control
 Division
 By: *[Signature]*

[Signature]
 1/21/10
 Robert L. Clark, P.E.
 PE #39712
 Structural

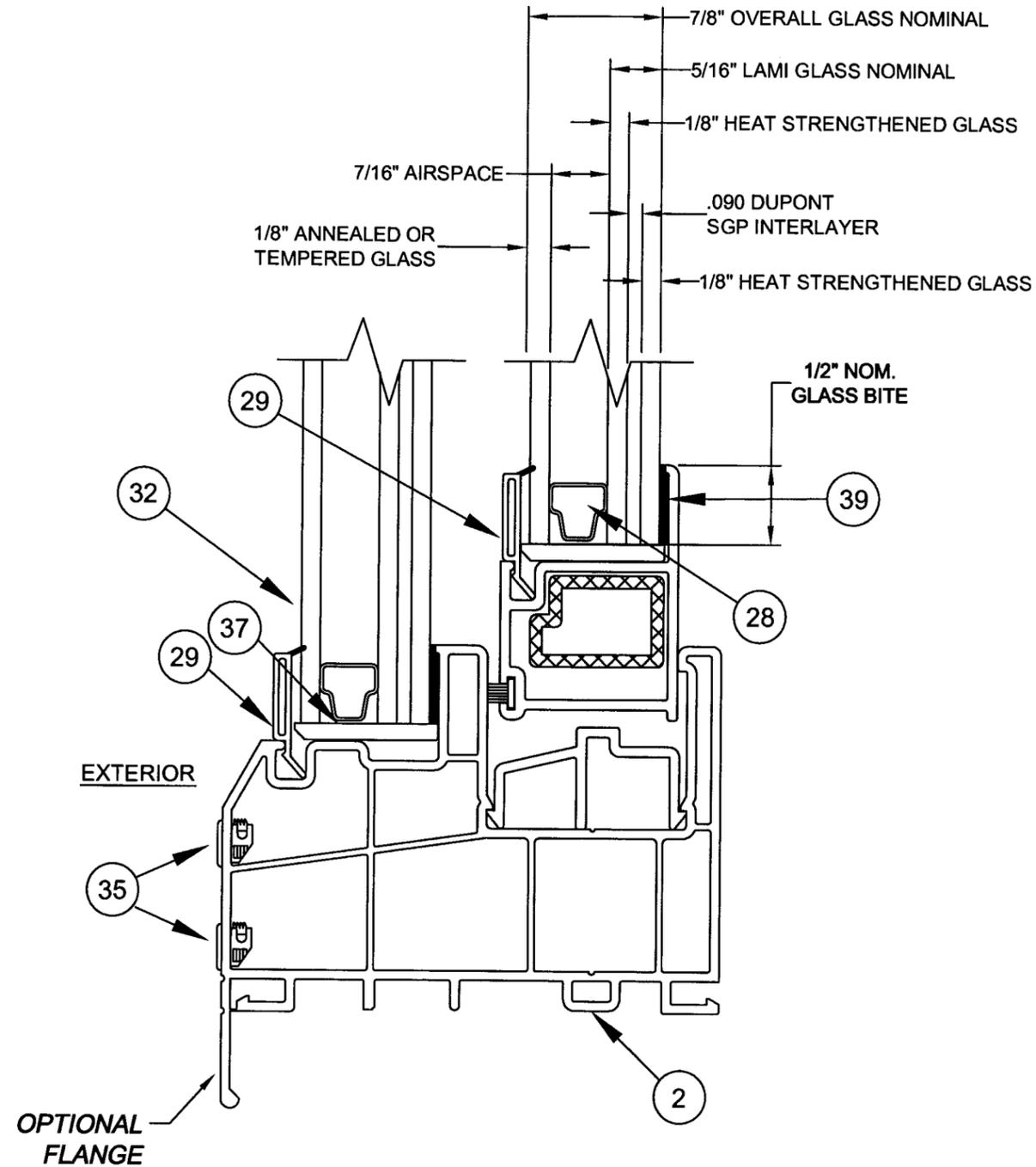
Revsd By:	Date:	Revisions:	
J.R.	01/18/10	A	Added DP/Impact box frame, changed title above notes.
Drawn By:	Date:	Checked By:	Date:
J.R.	08/12/09		

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



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

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

Approved as complying with the
Florida Building Code
Date FEB. 17, 2010
NOA# 09-0901-07
Miami Dade Product Control
Checked By Maurice Perez

R.L. Clark
1/21/10
Robert L. Clark, P.E.
PE #39712
Structural

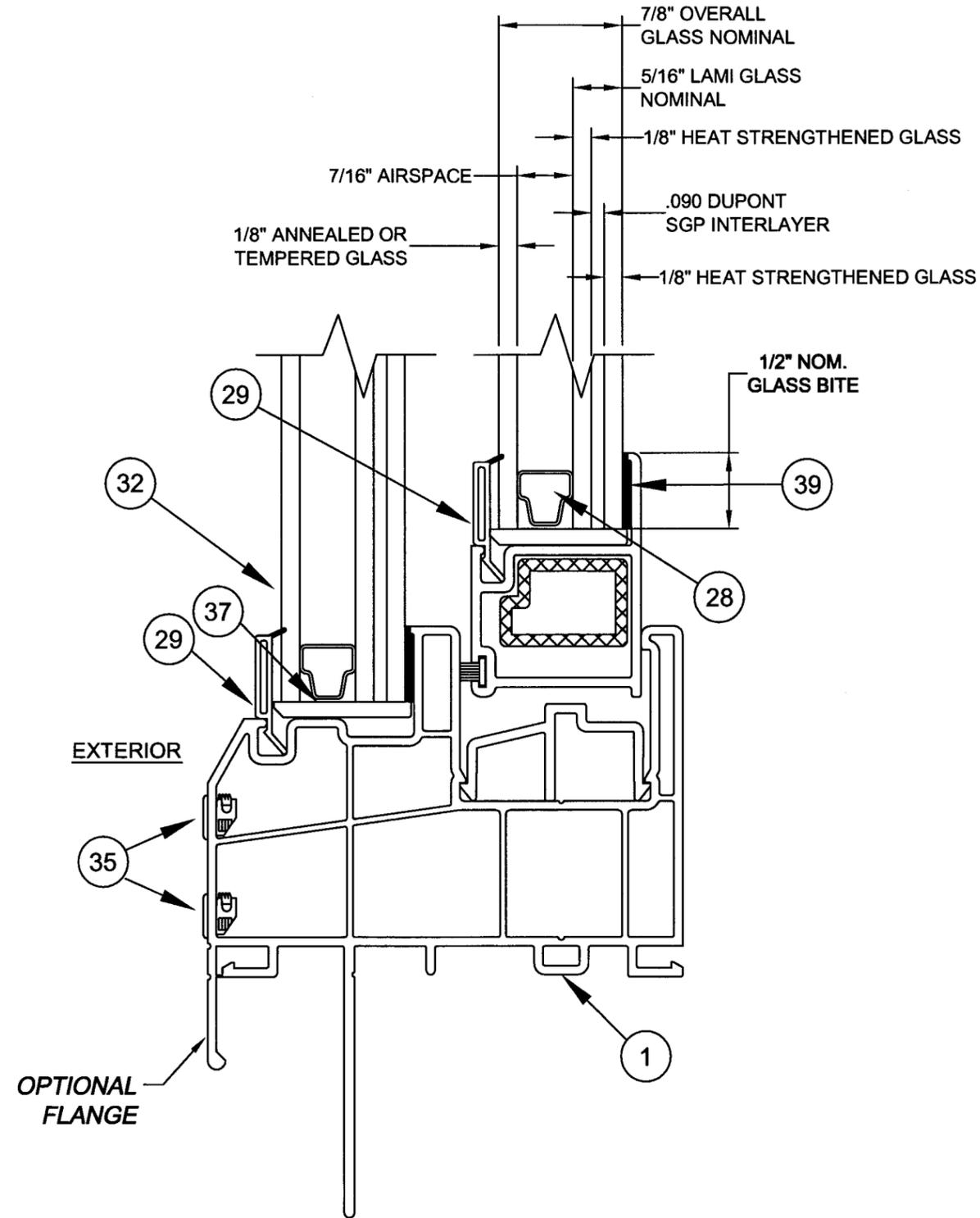
Revsd By:	Date:	Revisions:	
J.R.	01/18/10	A	Changed glass make up, drawing title.
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
J.R.	08/12/09		

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



Description:			
GLAZING DETAILS - BOX OR FLANGE FRAME			
Title:			
Vinyl Horiz. Roller Window, Impact-resistant			
Series/Model:	Scale:	Sheet:	Drawing No.
HR510	1:1	2 of 10	5191-2
			Rev:
			A

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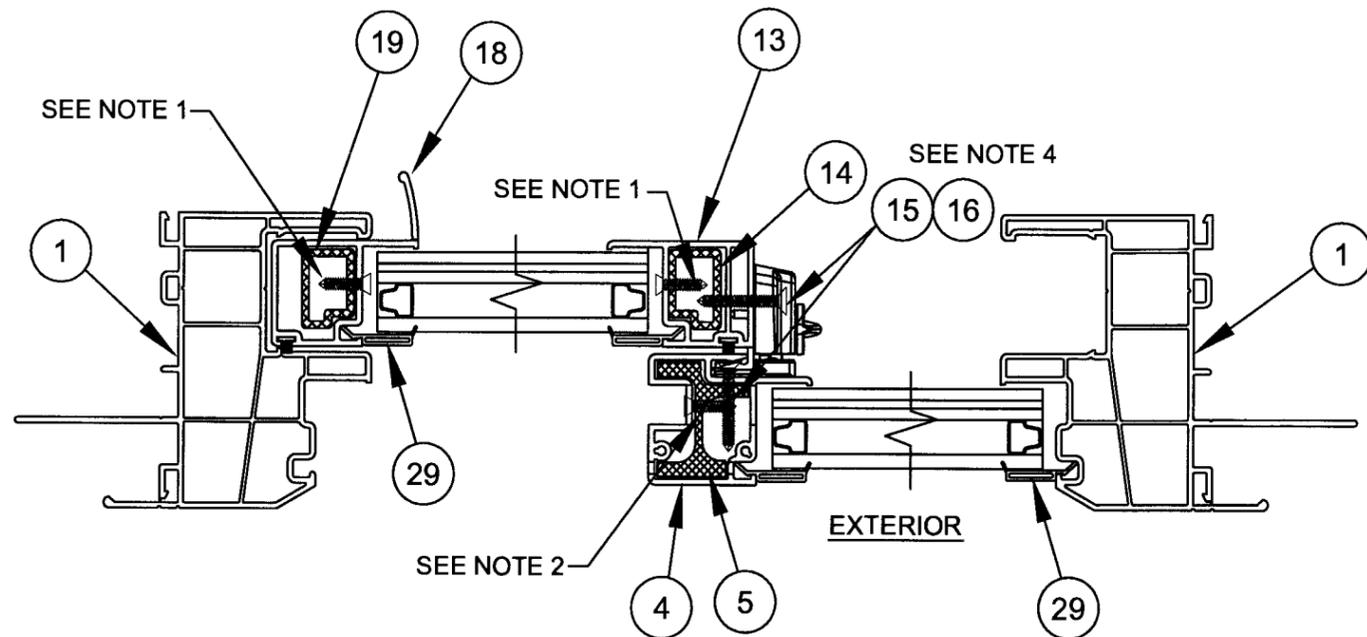


**7/8" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS AND 1/8" CAP**

Approved as complying with the
Florida Building Code
Date FEB. 17, 2010
NOA# 09-0961.07
Miami Dade Product Control
Division
By Manuel Perez

[Signature]
1/21/10
Robert L. Clark, P.E.
PE #39712
Structural

Revsd By: J.R.	Date: 01/18/10	Revisions: A	Changed glass make up, drawing title.	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274		Description: GLAZING DETAILS - INTEGRAL FIN FRAME				
Revsd By:	Date:	Revisions:				Title: Vinyl Horiz. Roller Window, Impact-resistant				
Revsd By:	Date:	Revisions:				Series/Model: HR510	Scale: 1:1	Sheet: 3 of 10	Drawing No. 5191-2	Rev: A
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:							



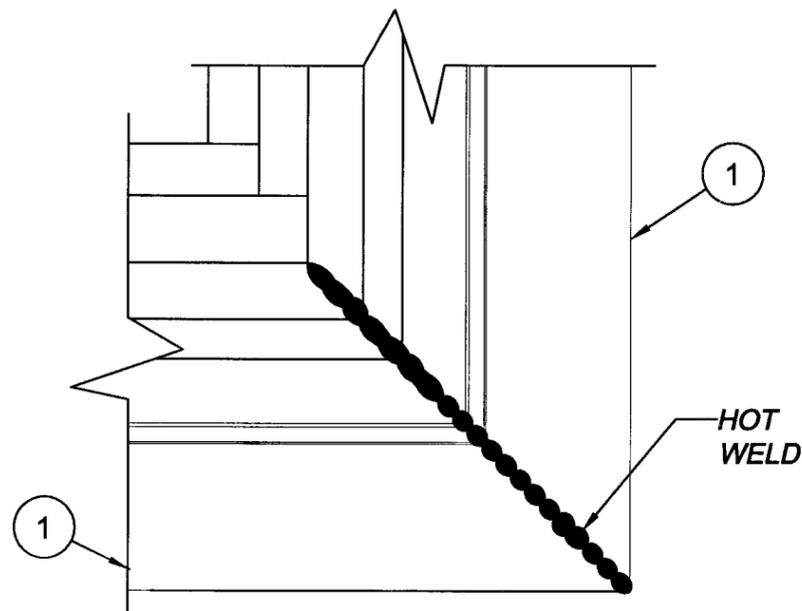
DETAIL A
LEFT JAMB SECTION

DETAIL B
MEETING RAIL SECTION

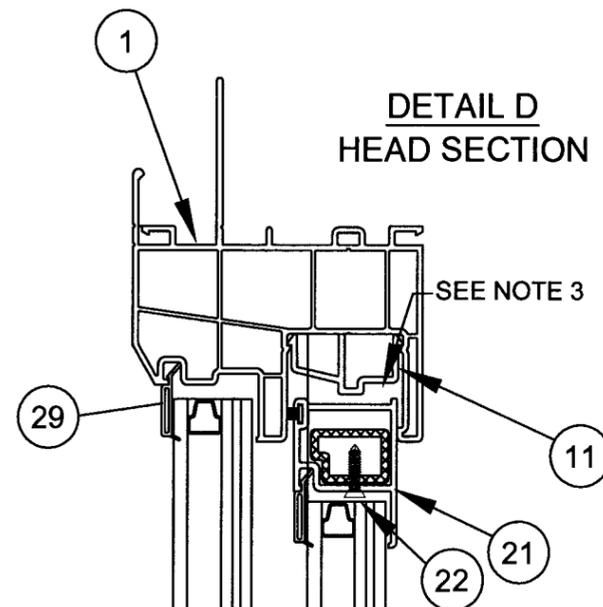
DETAIL C
RIGHT JAMB SECTION

NOTES:

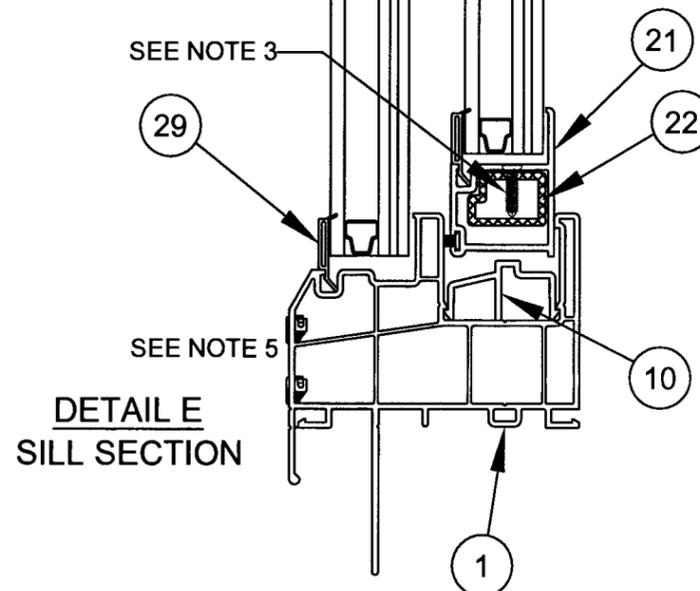
- 1. #6 x 1/2 FL SMS, LOCATED AT 4 1/2" FROM EACH END AND AT 16" O.C.
- 2. #6 x 3/8 FL SMS, LOCATED AT 4 1/2" FROM EACH END AND AT 16" O.C.
- 3. #6 x 1/2 FL SMS, LOCATED AT 4 1/2" FROM EACH END.
- 4. CAM LOCKS:
(2) AT 7" EACH END
- 5. WEEPHOLES ARE 1" X 3/16". SEE SHEET 1 FOR LOCATIONS.



HOT WELD CORNER ASSEMBLY
(INTEGRAL FIN)



DETAIL D
HEAD SECTION



DETAIL E
SILL SECTION

Approved as complying with the
Florida Building Code
Date FEB. 17, 2010
NOA# 09-0961.07
Miami Dade Product Control
By Manuel Perez

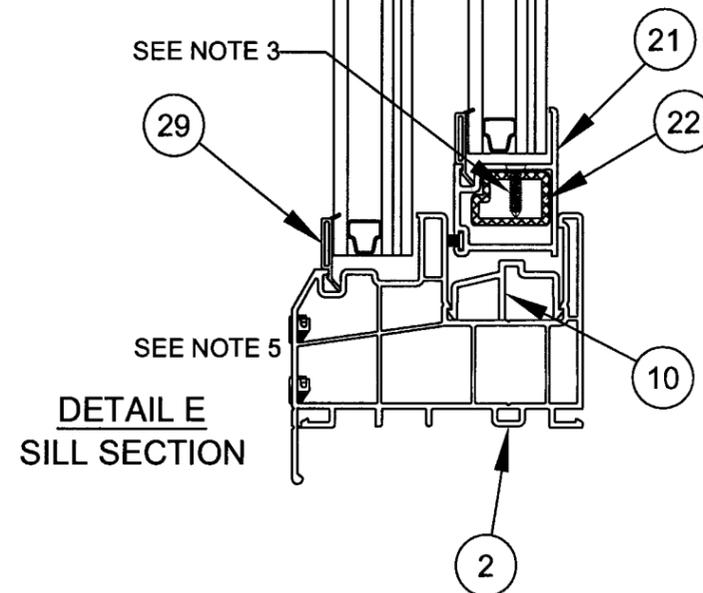
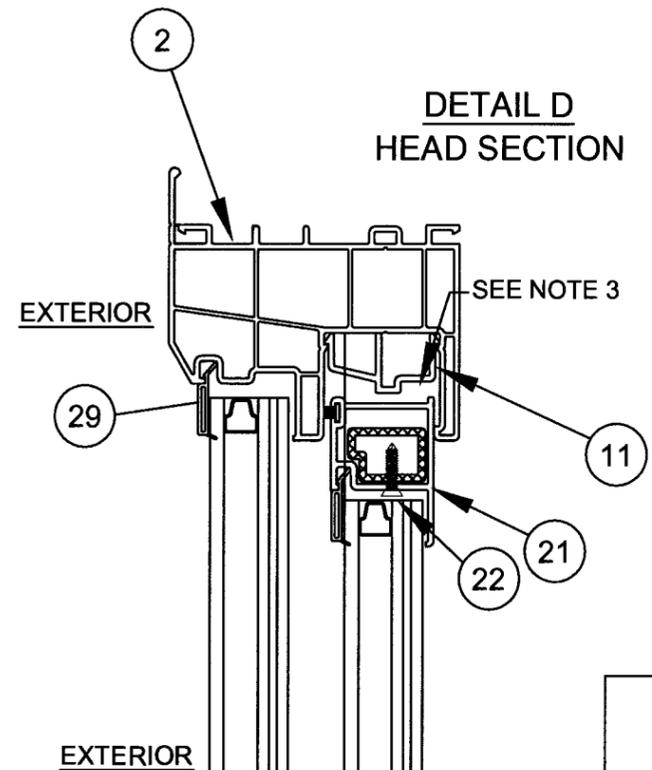
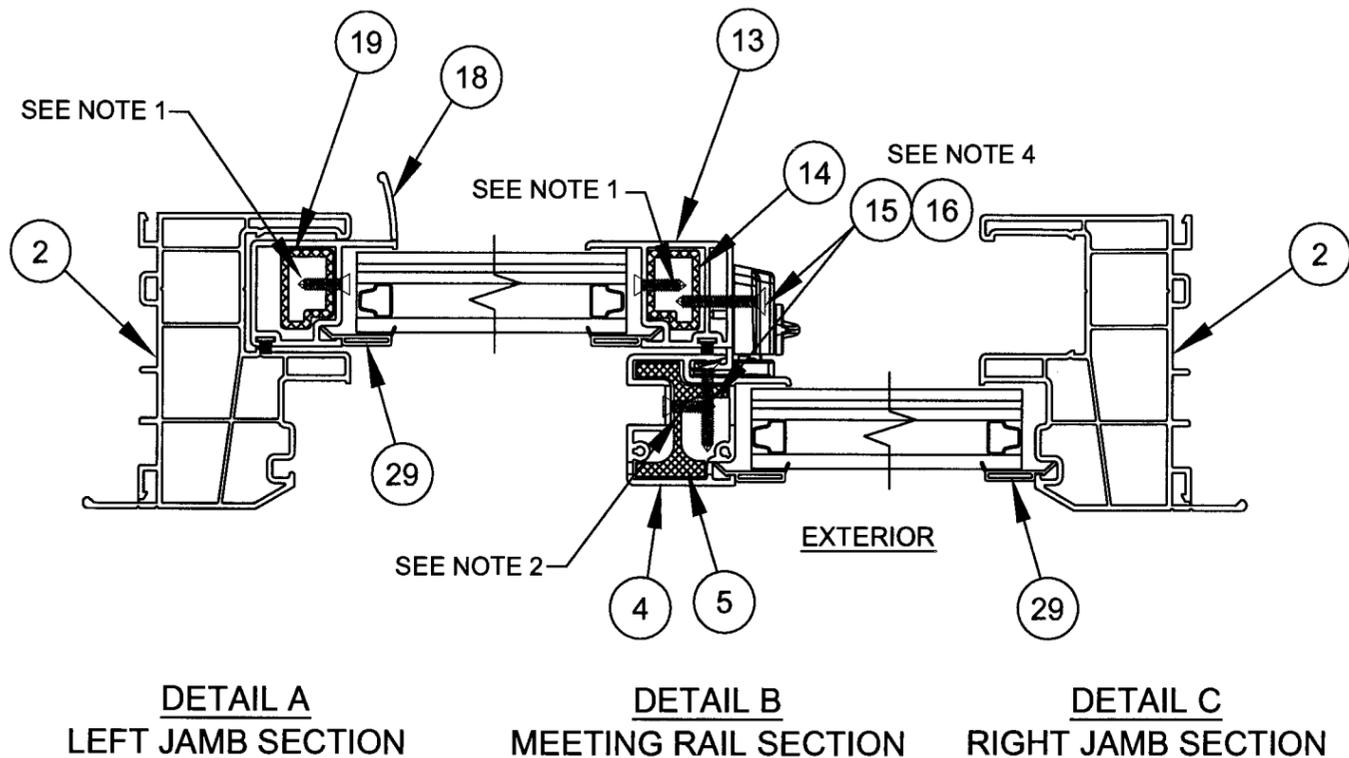
[Signature]
1/21/10
Robert L. Clark, P.E.
PE #39712
Structural

Revsd By: J.R.	Date: 01/18/10	Revisions: A	No changes this sheet.
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:

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

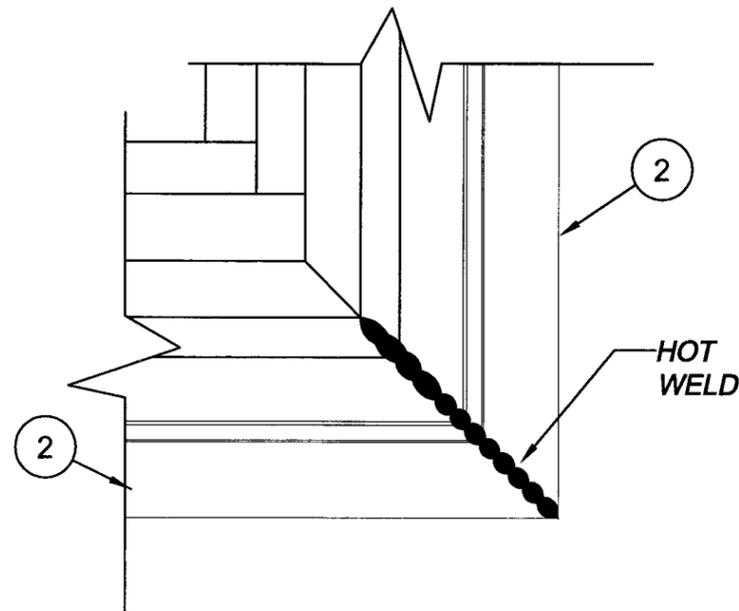


Description: CROSS SECTIONS - INTEGRAL FIN				
Title: Vinyl Horiz. Roller Window, Impact-resistant				
Series/Model: HR510	Scale: 1:2	Sheet: 4 of 10	Drawing No. 5191-2	Rev: A



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.



Approved as complying with the Florida Building Code
 Date FEB. 17, 2010
 NOA# 09-0961.07
 Miami Dade Product Control
 Division
Manuel Perez

R. L. Clark
 1/21/10
 Robert L. Clark, P.E.
 PE #39712
 Structural

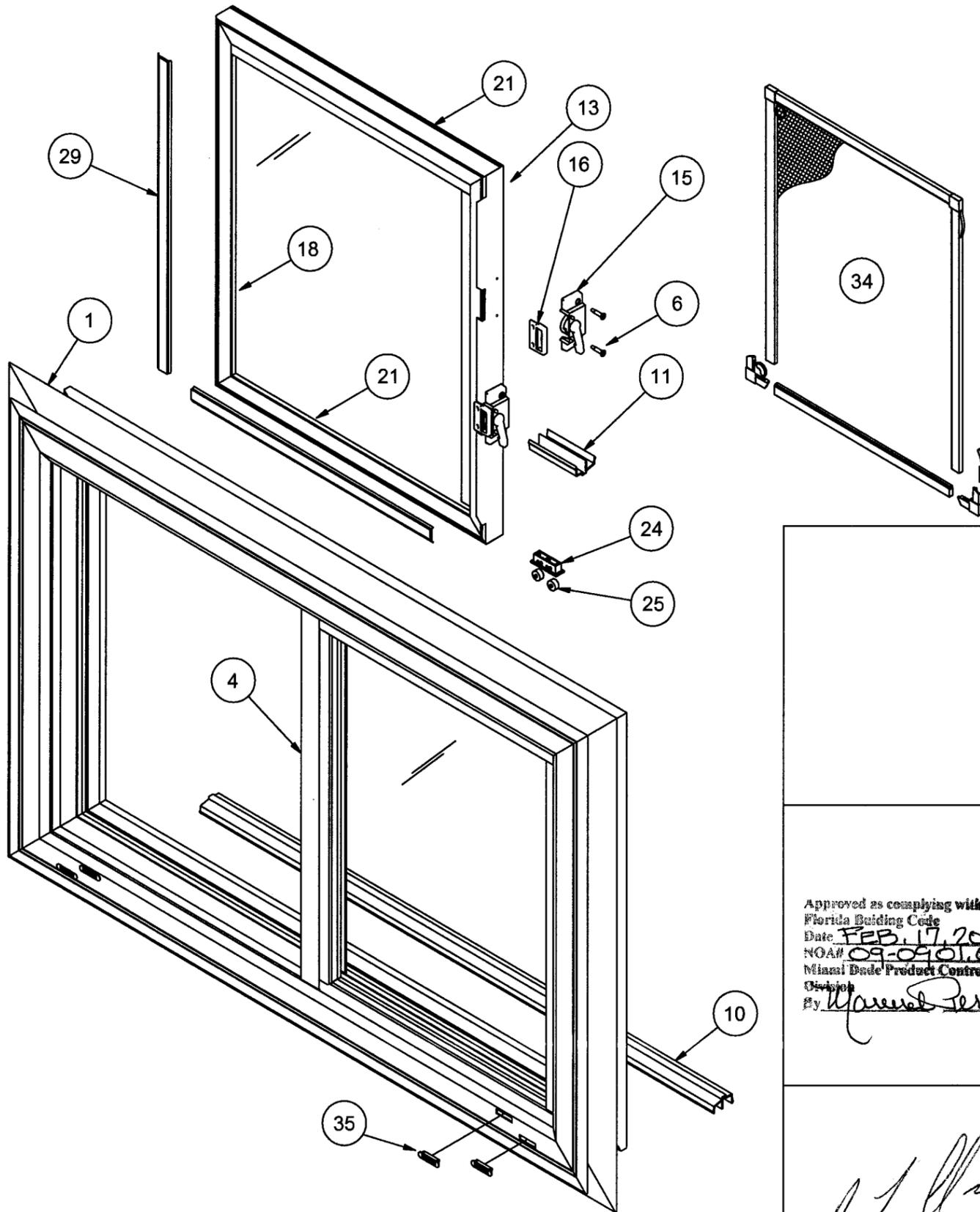
Revised By: J.R.	Date: 01/18/10	Revisions: A	No changes this sheet.
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By: J.R.	Date: 08/12/09	Checked By:	

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



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: A

ITEM	DWG NO.	PART #	DESCRIPTION	QTY
1	5166	65166	FRAME HEAD, SILL AND JAMBS (FIN ONLY)	4
2	5189	65189	FRAME HEAD, SILL AND JAMBS (BOX ONLY)	4
4	5102	65102	FIXED MEETING RAIL	1
5	5123	65123	FIXED MEETING RAIL - ALUMINUM REINF.	1
6		76X1FPAW	6 x 1" FH TECH (CAM LOCK, KEEPER)	4
8		78X312PPABX	SCR. 8X3 1/2" PP TYPE AB (FIXED MR)	4
9		71669SP	330025 ALUM SCREW SUPPORT PLATES	2
10	5138	65138	ROLLER TRACK	1
11	5138	65138	ANTI LIFT	2
12		71038W	INSTALLATION HOLE PLUGS (BOX ONLY)	VARIES
13	5105	65105	SASH INTERLOCK RAIL	1
14	5114	65114	INTERLOCK RAIL - ALUMINUM REINF.	1
15		76208SLAW	CAM SWEEP LOCKS	2
16		76133SLKW	CAM SWEEP LOCK KEEPER	2
17	1644	61644W	WSTP. .187 x .270 FIN SEAL	1
18	5137	65137	SASH SIDE RAIL	1
19	5114	65114	SIDE RAIL - ALUMINUM REINF.	1
20	1644	61644W	WSTP. .187 x .270 FIN SEAL	1
21	5106	65106	SASH TOP & BOTTOM RAIL	2
22	5114	65114	TOP & BOTTOM RAIL - ALUMINUM REINF.	2
23	1644	61644W	WSTP. .187 x .270 FIN SEAL	2
24	225-1	42112HD	ROLLER HOUSING	2
25		7BRVHL2	BRASS WHEELS	4
26		7612FW	6 x 1/2 FH PHIL #2PT S/D/S	VARIES
27		7638FW	7 x 3/8 FH PHIL #2PT S/D/S	VARIES
28A		6SWGK716	7/16" SUPER-SPACER	-
28B		6SWGK38	3/8" SUPER-SPACER	-
29A	5112	65112	GLAZING BEAD, 1-LITE	-
32A			7/8" LAM I.G. GLASS: 1/8" TEMPERED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAM)	-
32B			7/8" LAM I.G. GLASS: 1/8" ANNEALED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAM)	-
34			SCREEN	1
35			WEEP COVERS	4
37			SETTING BLOCK	-
39			SILICONE DOW 1199	-
40				



Approved as complying with the
Florida Building Code
Date: FEB. 17, 2010
NOA# 09-090107
Miami Dade Product Control
Division
By: *Manuel Perez*

R. L. Clark
1/21/10
Robert L. Clark, P.E.
PE #39712
Structural

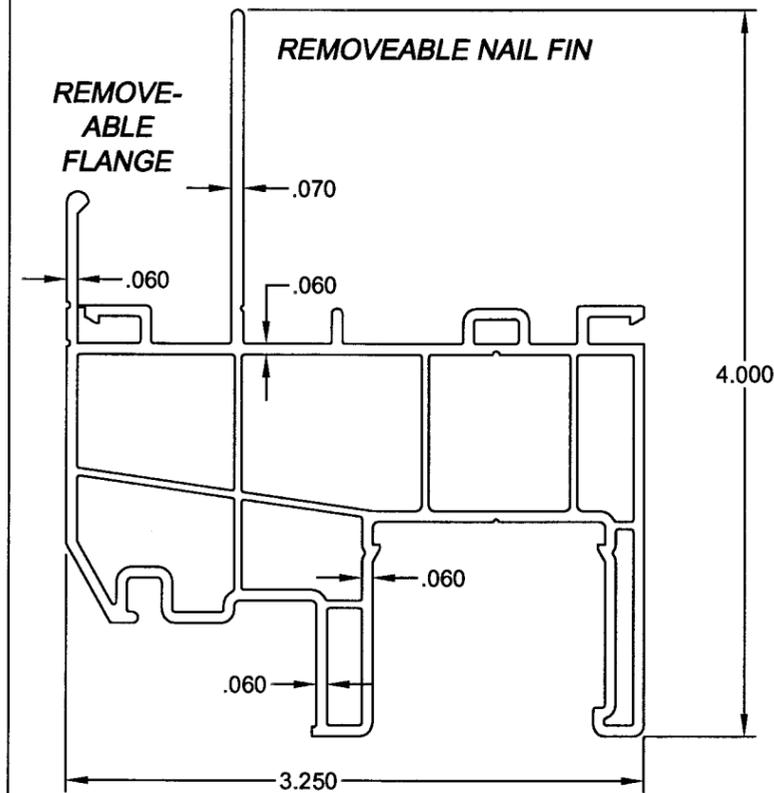
Revised By:	Date:	Revisions:	
J.R.	01/18/10	A	Removed 3/4" glass and beading from BOM.
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
J.R.	08/12/09		

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

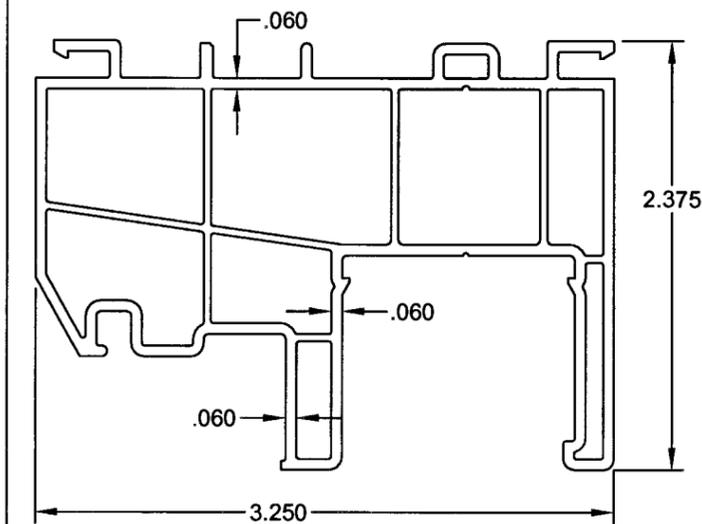


Description: BOM & EXPLODED VIEW			
Title: Vinyl Horiz. Roller Window, Impact-resistant			
Series/Model:	Scale:	Sheet:	Drawing No.
HR510	NTS	6 of 10	5191-2
			Rev: A

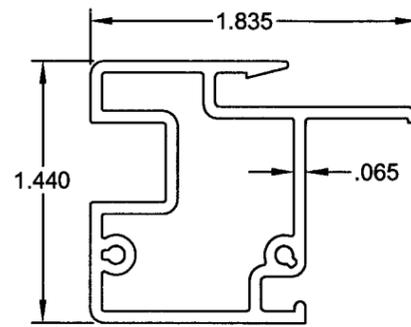
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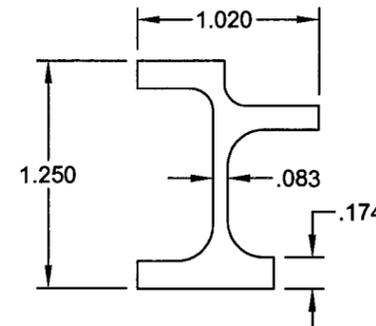
1 **I.F. FRAME**
DWG #5116
RIGID PVC



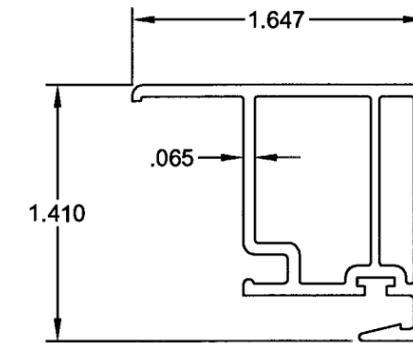
2 **BOX FRAME**
DWG #5189
RIGID PVC



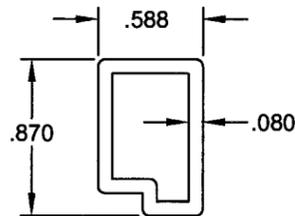
4 **FIXED MEETING RAIL**
DWG #5102
RIGID PVC



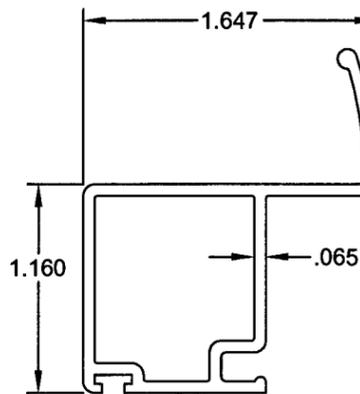
5 **FIXED MEETING RAIL REINFORCEMENT**
DWG #5123
AI 6005-T6



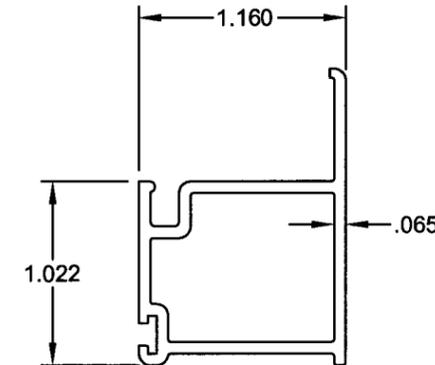
13 **SASH INTERLOCK RAIL**
DWG #5105
RIGID PVC



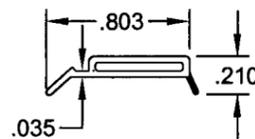
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DWG #5114
AI 6063-T6



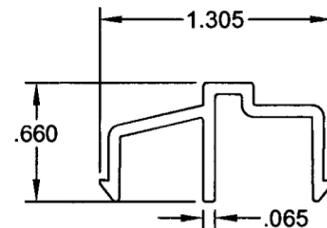
18 **SASH SIDE RAIL**
DWG #65137
RIGID PVC



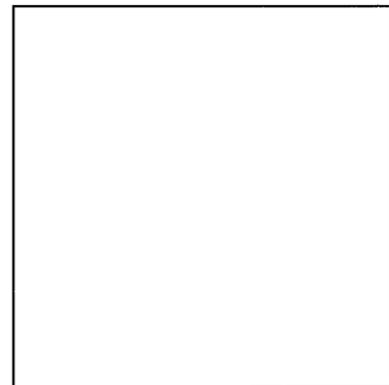
21 **SASH TOP/BOTTOM RAIL**
DWG #65106
RIGID PVC



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



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



Approved as complying with the Florida Building Code
Date: FEB. 17, 2010
NOA# 09-096107
Miami Dade Product Control
Division
By: *Manuel Perez*

R/L
1/21/10
Robert L. Clark, P.E.
PE #39712
Structural

Revised By:	Date:	Revisions:	
J.R.	01/18/10	A	Added wall thickness to all extrusions, removed beading for 3/4" glass.
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
J.R.	08/12/09		

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



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

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	63
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:

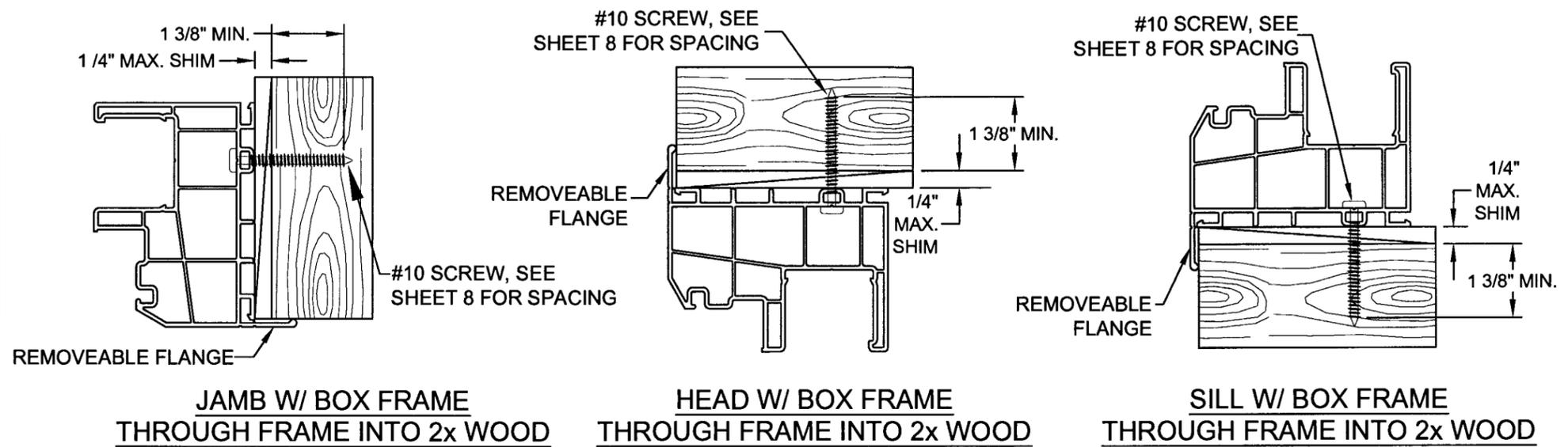
- ④ 1. ANCHOR TYPES: 1 - 3/16" ULTRACONS BY ELCO (FOR MASONRY SUBSTRATES) MINIMUM EDGE DISTANCE OF 1".
2 - #10 SM SCREWS, GRADE5 (FOR METAL AND WOOD SUBSTRATES) MINIMUM EDGE DISTANCE OF 3/8".
2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS.
6.5" MAX. FROM ALL CORNERS
JAMBS - 16.3125" MAX. O.C.
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.

Approved as complying with the Florida Building Code
 Date: FEB. 17, 2010
 NOA# 09-0901.07
 Miami Dade Product Control
 Division
 By: *[Signature]*

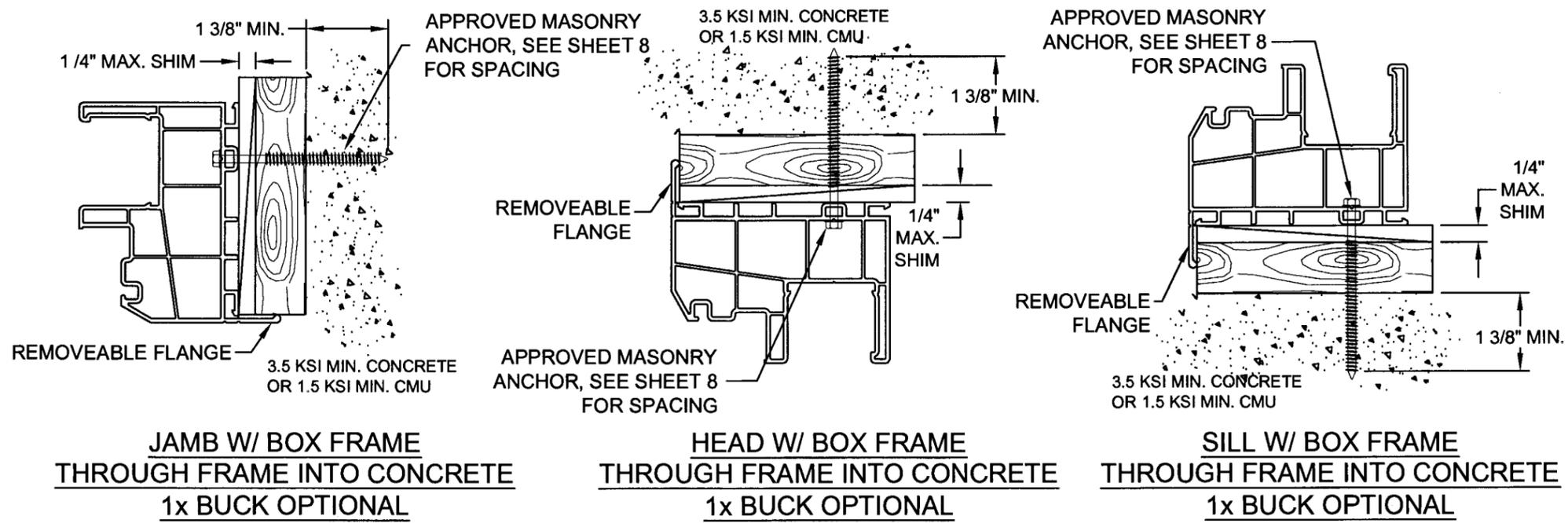
[Signature]
 1/21/10
 Robert L. Clark, P.E.
 PE #39712
 Structural

NOTE: FOR VIEW WINDOW THE LARGEST CAN NOT EXCEED THE TESTED SIZE.

Revised By: J.R.	Date: 01/18/10	Revisions: A	Added additional anchor information.	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274		Description: ANCHOR CHARTS				
Revised By:	Date:	Revisions:				Title: Vinyl Horiz. Roller Window, Impact-resistant				
Revised By:	Date:	Revisions:				Series/Model: HR510	Scale: NTS	Sheet: 8 of 10	Drawing No. 5191-2	Rev: A
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:							



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



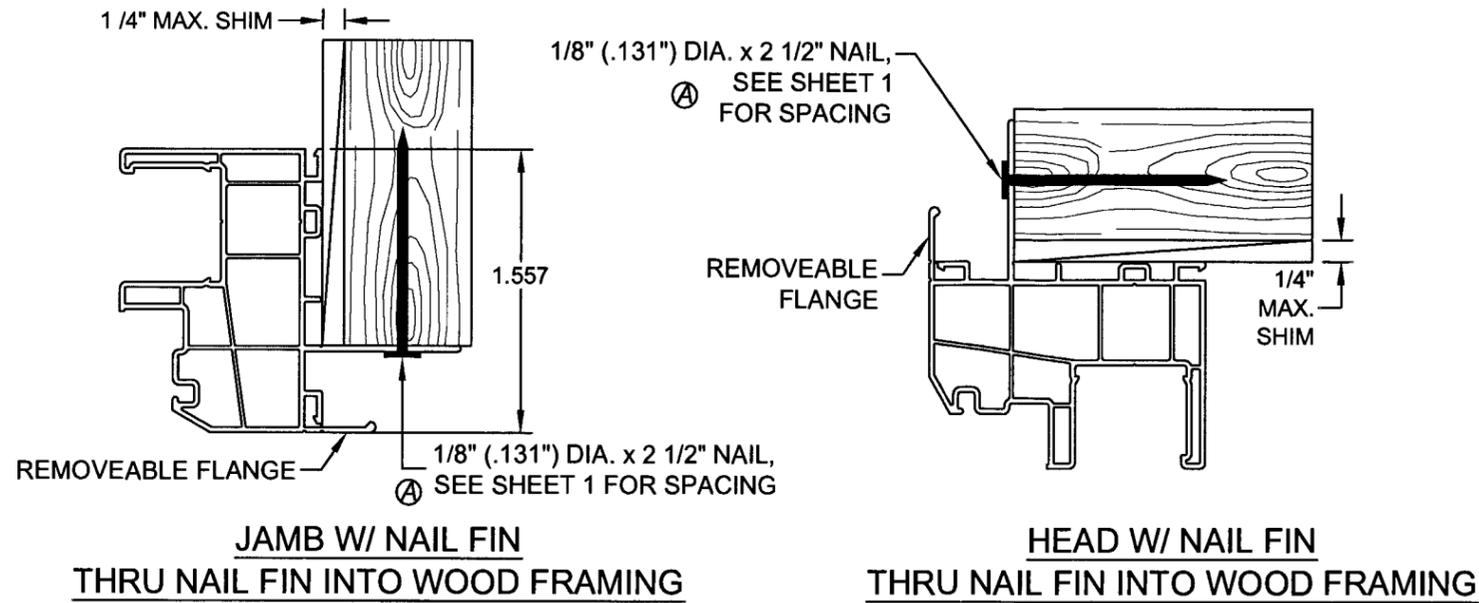
NOTES:

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.

Approved as complying with the Florida Building Code
 Date FEB. 17 2010
 NOAH 09-0901.07
 Miami Dade Product Control
 Division
 By *Manned Perez*

Robert L. Clark
 1/21/10
 Robert L. Clark, P.E.
 PE #39712
 Structural

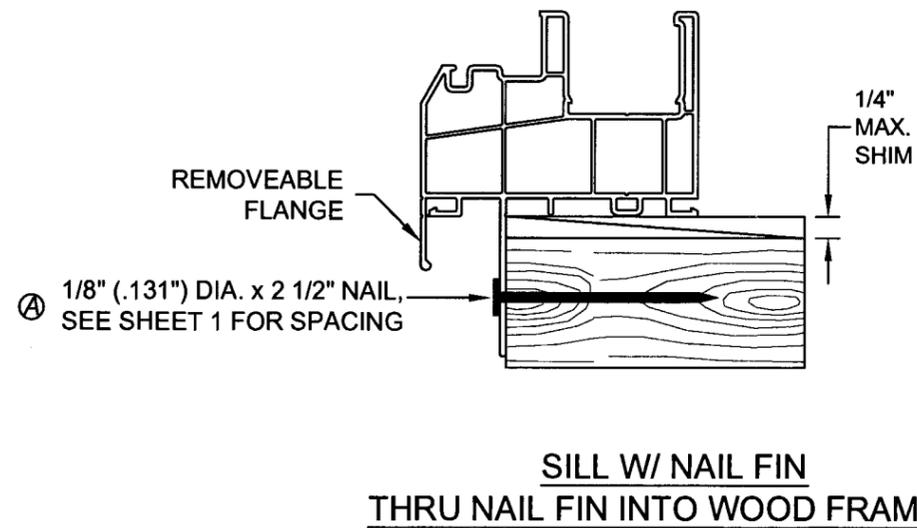
Revised By: J.R.	Date: 01/18/10	Revisions: A	No changes this sheet.		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274		Description: INSTALLATION DETAILS-BOX/FLANGE FRAME				
Revised By:	Date:	Revisions:					Title: Vinyl Horiz. Roller Window, Impact-resistant				
Revised By:	Date:	Revisions:					Series/Model: HR510	Scale: 1:2	Sheet: 9 of 10	Drawing No. 5191-2	Rev: A
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:								



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

**JAMB W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING**

**HEAD W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING**



**SILL W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING**

NOTES: Ⓐ

1. FOR INTEGRAL FIN APPLICATIONS IN MIAMI-DADE COUNTY, USE 1/8" (.131") DIA. x 2 1/2" 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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Date FEB. 17, 2010
NOA# 09-090107
Miami Dade Product Control
Division
By Manuel Perez

Robert L. Clark
1/21/10
Robert L. Clark, P.E.
PE #39712
Structural

Revised By: J.R.	Date: 01/18/10	Revisions: A	Corrected nail length to 2-1/2", added dia. in decimal.	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274		Description: INSTALLATION DETAILS - INT. FIN FRAME				
Revised By:	Date:	Revisions:				Title: Vinyl Horiz. Roller Window, Impact-resistant				
Revised By:	Date:	Revisions:				Series/Model: HR510	Scale: 1:2	Sheet: 10 of 10	Drawing No. 5191-2	Rev: A
Drawn By: J.R.	Date: 08/12/09	Checked By:	Date:							