



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-810 Multi - Story" Aluminum Horizontal Roller Window - S.M.I.

APPROVAL DOCUMENT: Drawing No. 4121-2, titled "Alum. Horizontal Roller Window, SM Missile", sheets 1 through 6 of 6, dated 7/30/2002 with revision E dated 10/02/2006, prepared by manufacturer, signed and sealed and dated 10/06/2006 by Robert L. Clark, 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 Division.

MISSILE IMPACT RATING: Small 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 renews NOA # 06-0717.04 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 **Jaime D. Gascon, P.E.**



J. Gascon
11/9/07

NOA No. 07-0829.08
Expiration Date: January 02, 2013
Approval Date: November 22, 2007
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

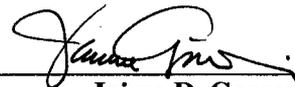
1. Manufacturer's die drawings and sections.
2. Drawing No. 4121-2, titled "Alum. Horizontal Roller Window, SM Missile", sheets 1 through 6 of 6, dated 7/30/2002 with revision E dated 10/02/2006, prepared by manufacturer, signed and sealed and dated 10/06/2006 by Robert L. Clark, P.E.
(Submitted under NOA # 06.0717.04)

B. TESTS

1. Test reports on 1) Small 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 a series HR-810 aluminum horizontal sliding window, glazed with 7/16" HS. laminated glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4856**, dated 03/06/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA # 06.0717.04)
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series HR-810 aluminum horizontal sliding window, glazed with 1/4" temp. glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4854**, dated 03/06/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA # 06.0717.04)
3. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
4) Small Missile Impact Test per SFBC, PA 201-94
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94
along with marked-up drawings and installation diagram of a series HR-810 aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3373**, dated February 28, 2002, signed and sealed by Luis Antonio Figueredo, P.E.
(Submitted under NOA # 06.0717.04)

C. CALCULATIONS

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by manufacturer, dated 03/27/2006 and revised on 10/2/2006, signed and sealed by Robert L. Clark, P.E.
Complies with ASTM E1300-02
(Submitted under NOA # 06.0717.04)



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No. 07-0829.08

Expiration Date: January 02, 2013
Approval Date: November 22, 2007

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

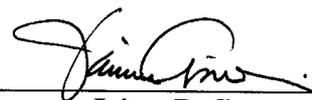
1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont DeNemours for "DuPont Butacite PVB Interlayer" dated 01/05/06, expiring on 12/11/10.
2. Notice of Acceptance No. **04-0721.01** issued to Elco Textron Inc. for "Tapcon Concrete Anchors" dated 03/09/06, expiring on 01/08/11.
3. Notice of Acceptance No. **03-0225.05** issued to Elco Textron Inc. for "Concrete-Flex SS4 Concrete & Masonry Screw" dated 05/22/03, expiring on 04/14/08.

F. STATEMENTS

1. Statement letter of conformance, no financial interest and independency, dated October 6, 2006, signed and sealed by Robert L. Clark, P.E.
(Submitted under NOA # 06.0717.04)
3. Laboratory compliance letter for Test Report no. **FTL- 4856**, issued by Fenestration Testing Laboratory, Inc., dated March 9, 2006, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA # 06.0717.04)
4. Laboratory compliance letter for Test Report no. **FTL-3373**, issued by Fenestration Testing Laboratory, Inc., dated March 11, 2002, signed and sealed by Luis Figueredo, P.E.
(Submitted under NOA # 06-0717.04)

G. OTHER

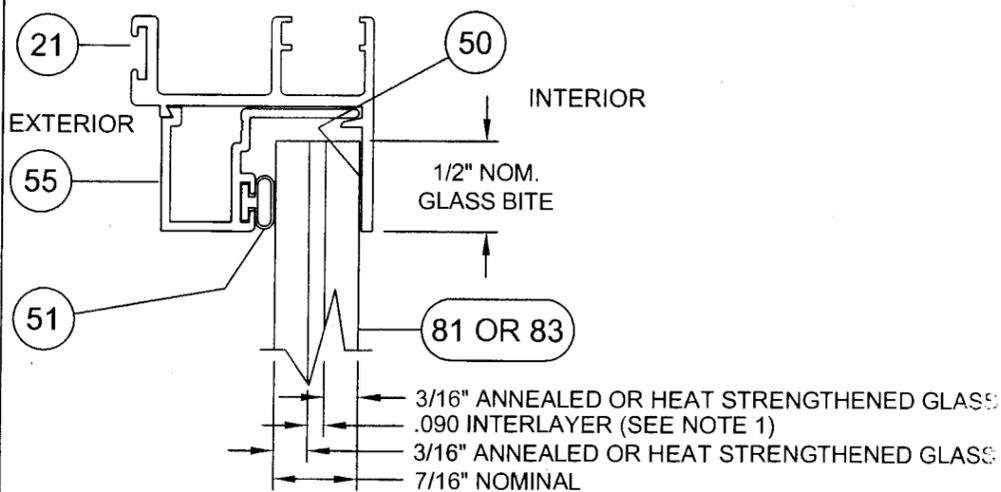
1. Notice of Acceptance No. **06-0717.04**, issued to PGT Industries for their Series "HR-810 Mid-Rise" Aluminum Horizontal Roller Window – Small Missile Impact, approved on 11/09/2006 and expiring on 01/02/2008.



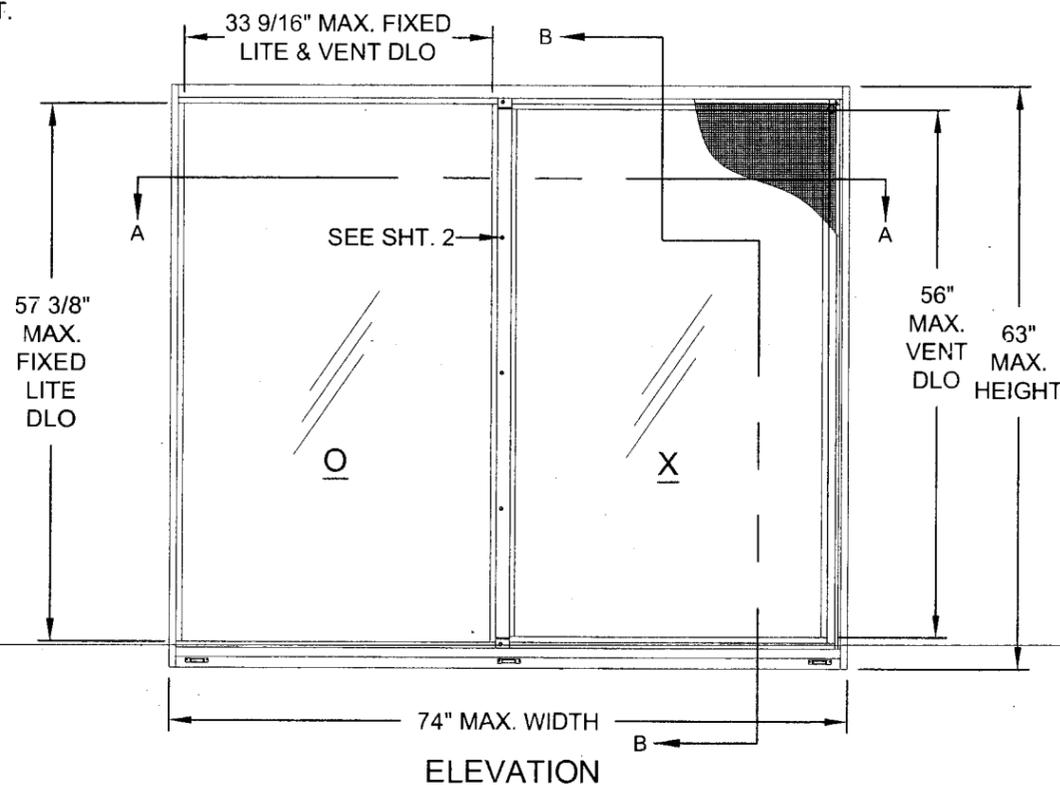
Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No. 07-0829.08
Expiration Date: January 02, 2013
Approval Date: November 22, 2007

GENERAL NOTES: SMALL MISSILE HORIZONTAL ROLLER WINDOW

1. GLAZING OPTIONS: A. 7/16" LAMI, CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH AN INTERLAYER OF DUPONT BUTACITE PVB OR SENTRY GLASS PLUS.
B. 7/16" LAMI, CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN INTERLAYER OF DUPONT BUTACITE PVB OR SENTRY GLASS PLUS.
2. CONFIGURATIONS: OX, XO
3. DESIGN PRESSURES: (SEE TABLE 1.)
 △ 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. ANCHORAGE FOR MIAMI-DADE COUNTY: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 5 AND 6 FOR ANCHORAGE SPACING AND DETAILS.
5. MIAMI-DADE COUNTY APPROVED SHUTTERS ARE REQUIRED AT INSTALLATIONS BELOW 30 FT. (NOT REQUIRED AT INSTALLATIONS ABOVE 30 FT. GRADE)
6. FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT OR GASKET.
7. REFERENCE TEST REPORTS: FTL-3373 AND FTL-4856.



DETAIL A, GLAZING DETAIL



HR810 (OX AND XO) DESIGN PRESSURES

TABLE 1.

WINDOW WIDTH	GLASS TYPE	38 3/8"		48"		50 5/8"		54"		60"		63"	
		+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0
53 1/8"	A,B	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0
60"	A	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-147.0	+90.0	-141.0
	B	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0
66"	A	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-145.0	+90.0	-135.0	+90.0	-130.0
	B	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0
72"	A	+90.0	-150.0	+90.0	-150.0	+90.0	-143.0	+90.0	-137.0	+90.0	-126.0	+90.0	-120.0
	B	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0
74"	A	+90.0	-150.0	+90.0	-146.0	+90.0	-141.0	+90.0	-135.0	+90.0	-124.0	+90.0	-118.0
	B	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0	+90.0	-150.0

Revsd By: F.K.	Date: 10/2/06	Revisions: E	UPGRADE TABLE 1 TO ASTM E 1300-02 AND CHANGE NOTE 3.
Revsd By: F.K.	Date: 12/14/05	Revisions: D	REDRAWN, ADDED NEW SILL, REVISED DP TABLES AND REVISED ANCHORAGE
Revsd By: L.T.	Date: 12/30/02	Revisions: C	CHART LABEL CHG
Drawn By: F.K.	Date: 7/30/02	Checked By: J.J.	Date: 3/27/06

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274



Description: **NOTES, ELEVATION, GLAZING DETAIL & DP TABLE**
 Title: **ALUM. HORIZONTAL ROLLER WINDOW, SM MISSILE**
 Series/Model: HR810
 Scale: NTS
 Sheet: 1 of 6
 Drawing No: 4121-2
 Rev: E

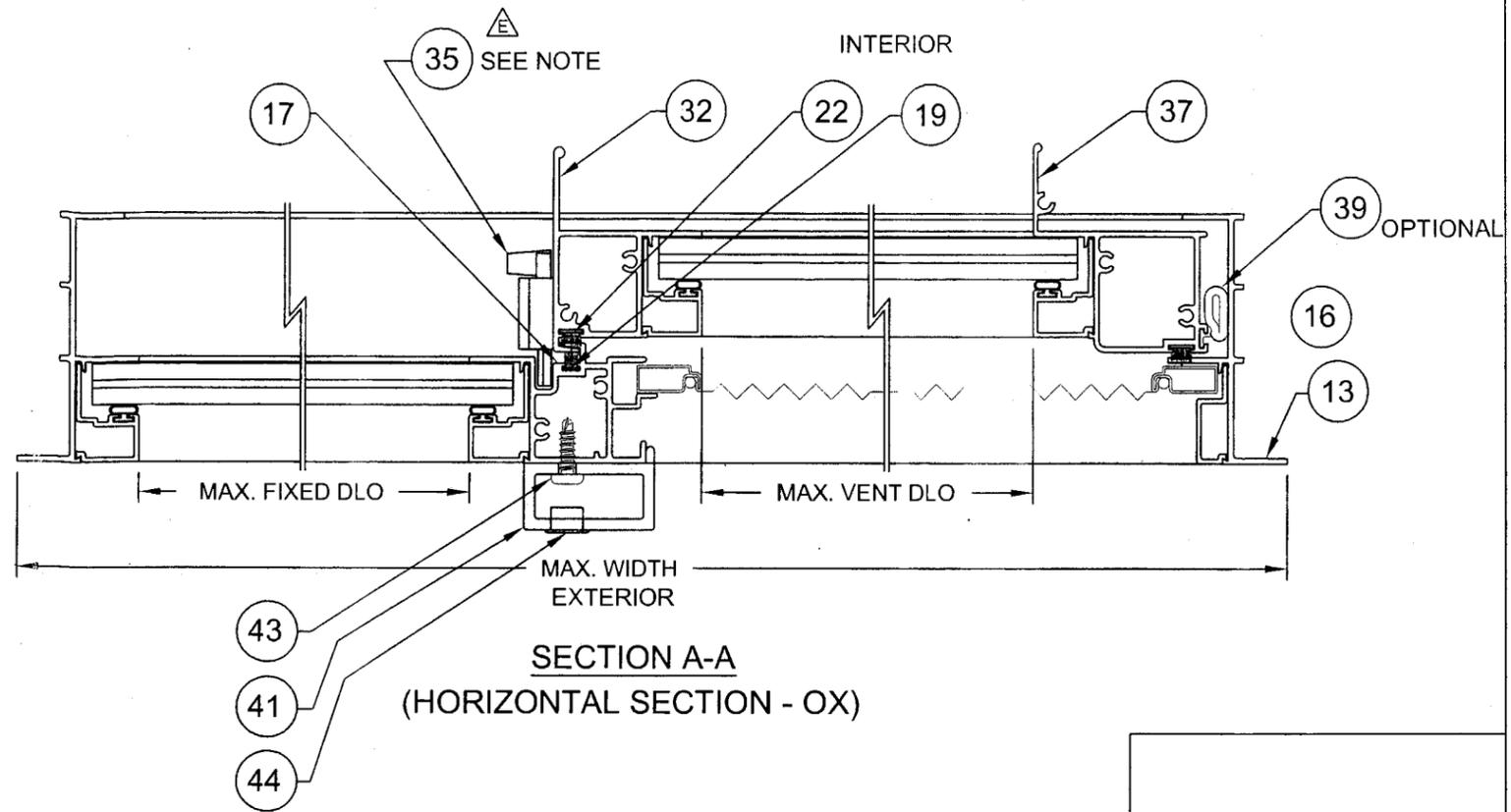
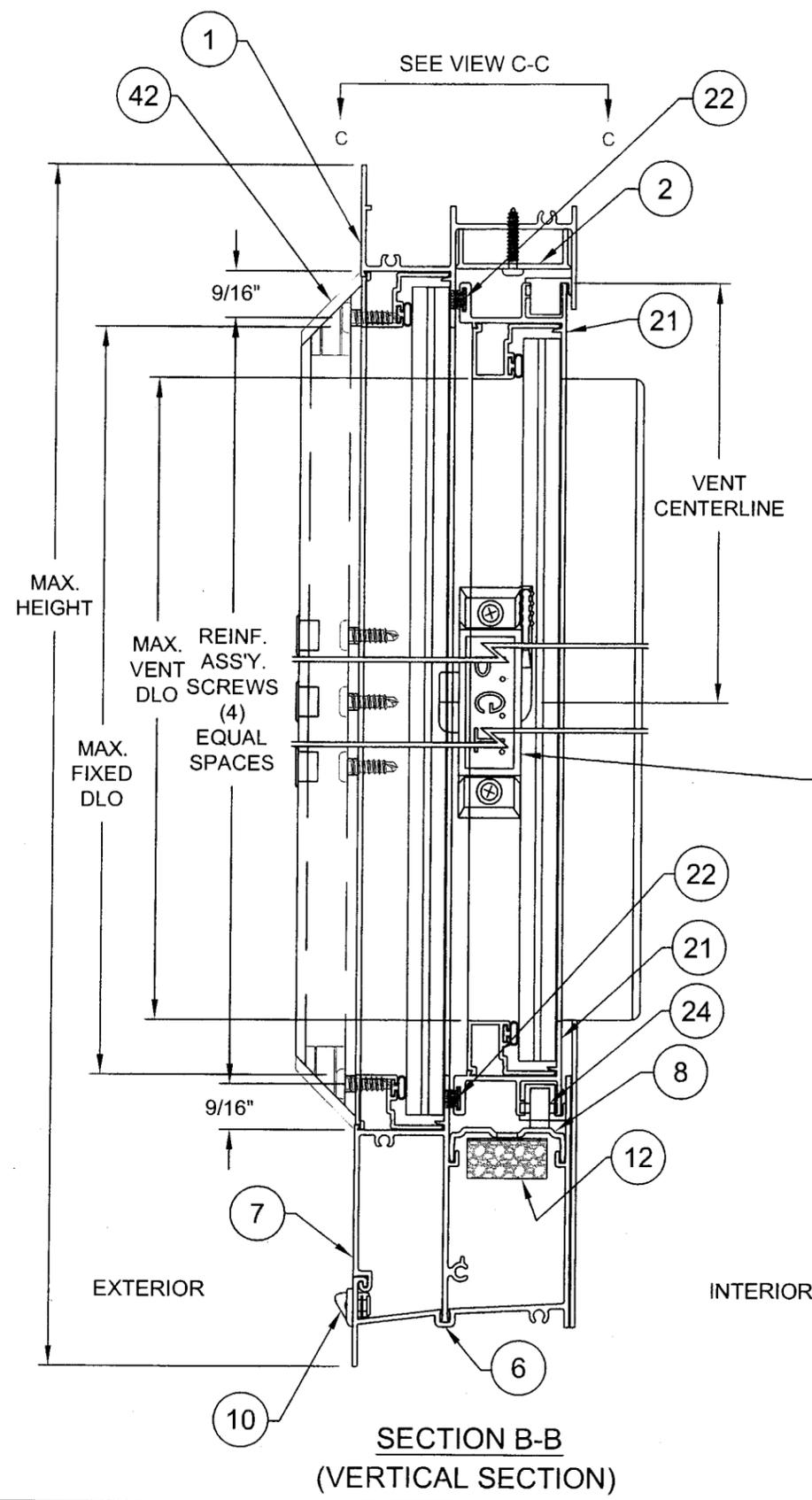
NOA DRAWING MAP

SHEET	
GENERAL NOTES.....	1
GLAZING DETAILS.....	1
DESIGN PRESSURES.....	1
ELEVATION.....	1
VERT. SECTIONS.....	2
HORIZ. SECTIONS.....	2
PARTS LIST.....	3
EXTRUSIONS.....	4
CORNER DETAIL.....	2
ANCHORAGE.....	5-6

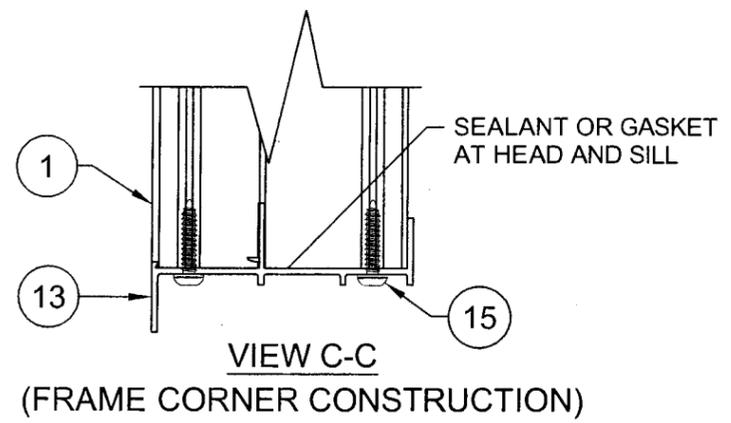
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0829.08
 Expiration Date 01/02/2013
 By: *[Signature]*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-0717.04
 Expiration Date JAN 2, 2008
 By: *[Signature]*
 Miami Dade Product Control
 Division

[Signature]
 10/06/04
 Robert L. Clark, P.E.
 PE #39712
 Structural



NOTE: WINDOWS 42" HIGH OR LESS REQUIRE (1) SWEEP LATCH CENTERED VERTICALLY AT VENT MEETING RAIL. WINDOWS TALLER THAN 42" REQUIRE (2) SWEEP LATCHES, ONE AT VENT MEETING RAIL, 11 1/2" FROM EACH END.



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PRODUCT REVISED
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Expiration Date JAN. 2, 2008
By
Miami Dade Product Control
Division

10/06/06
Robert L. Clark, P.E.
PE #39712
Structural

Revsd By:	Date:	Revisions:	
F.K.	10/2/06	E	ADD SWEEP LATCH NOTE
Revsd By:	Date:	Revisions:	
F.K.	12/14/05	D	REDRAWN AND ADDED NEW SILL
Revsd By:	Date:	Revisions:	
L.T.	12/30/02	C	NO CHANGE THIS SHT
Drawn By:	Date:	Checked By:	Date:
F.K.	7/30/02	J.J.	3/27/06

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



Description:			
SECTIONS			
Title:			
ALUM. HORIZONTAL ROLLER WINDOW, SM MISSILE			
Series/Model:	Scale:	Sheet:	Drawing No.:
HR810	Half	2 of 6	4121-2
Rev:			
E			

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
39	7070		BULB WEATHERSTRIP .187 X .275		67070K
40			LIFT RAIL COVER CAP		74078"C" L OR R
41	4063		MEETING RAIL REINF. TUBE, 3/4" X 1 1/2"	6063HS-T54 AL	64063
42	4064		MEETING RAIL REINF. TUBE, END CAP	POLYPROP.	44064
43	1179		#10 X 3/4" PH TEK SCREW		710X34PPSDX
44	947		3/8" DIA. HOLE PLUG	POLYPROP.	41722
50			GLAZING SILICONE, DOW 899, 983, 995 OR EQUIVALENT		
51	1224		VINYL GLAZING BEAD BULB (THICK)		6TP247W,K
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
81			GLASS, 7/16" LAMI (3/16 A, .090 DUPONT BUTACITE PVB OR SENTRY GLASS PLUS, 3/16 A)		
83			GLASS, 7/16" LAMI (3/16 HS, .090 SENTRY GLASS PLUS, 3/16 HS)		
90	1014		SCREEN FRAME (HOR. & VER.)	3105-H14 AL	61014
91	1630		SCREEN CORNER KEY W/RINGS	POLYPROP.	71630
92	1631		SCREEN CORNER KEY W/OUT RINGS	POLYPROP.	71631
93	1073		SCREEN SPRING	ST.ST.	7CASP
94	1624		SCREEN SPLINE - .135 DIA. FOAM	EM PVC	61624K
95	1635		SCREEN SPLINE - .135 DIA. HARD	EM PVC	61635K
96			SCREEN	CLOTH	61816

Revsd By: F.K.	Date: 10/2/06	Revisions: E	NO CHG THIS SHT
Revsd By: F.K.	Date: 12/14/05	Revisions: D	REDRAWN, NEW ITEMS 6, 7, 8, 39 UPGRADE ITEMS 1,10,12, 13,14, 16, 17, 32, 50 & 55
Revsd By: L.T.	Date: 12/30/02	Revisions: C	NO CHG THIS SHT
Drawn By: F.K.	Date: 7/30/02	Checked By: J.J.	Date: 3/27/06

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

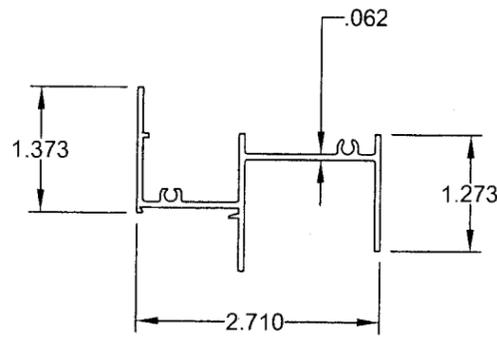


Description: PARTS LIST & FRAME CORNER CONSTRUCTION			
Title: ALUM. HORIZONTAL ROLLER WINDOW, SM MISSILE			
Series/Model: HR810	Scale: NTS	Sheet: 3 of 6	Drawing No. 4121-2
			Rev: E

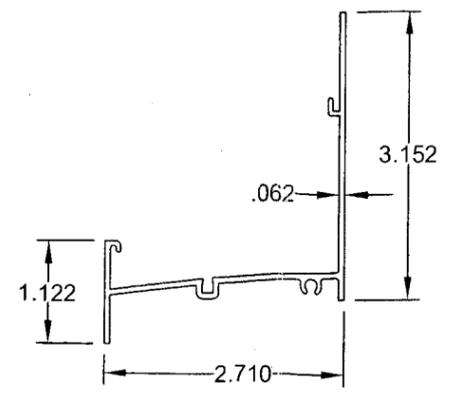
PRODUCT RENEWED
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By: *[Signature]*
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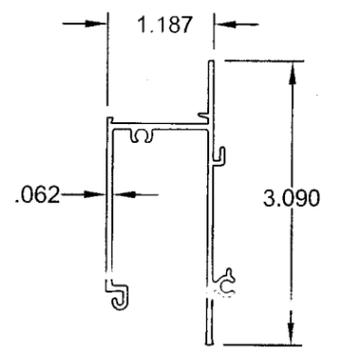
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10/06/06
Robert L. Clark, P.E.
PE #39712
Structural



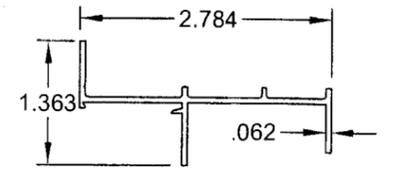
1 **FLANGE FRAME HEAD**
#4102A, 6063-T6



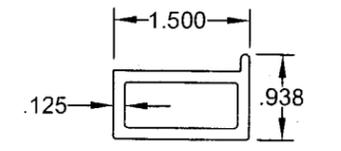
6 **FLANGE FRAME SILL**
#4136, 6063-T6



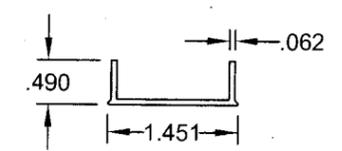
7 **FRAME SILL ADAPTER**
#4137, 6063-T6



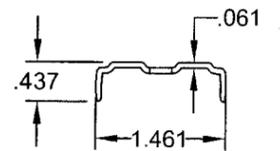
13 **FLANGE FRAME JAMB**
#4002A, 6063-T6



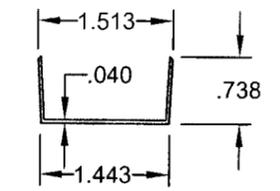
41 **MEETING RAIL REINF. TUBE**
#4063, 6063HS-T54



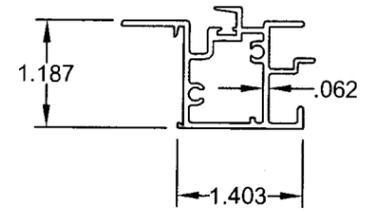
2 **SASH STOP**
#4025, 6063-T5



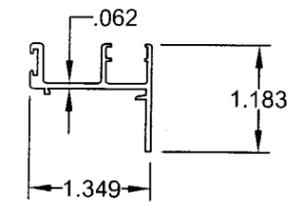
8 **HORIZ. ROLLER TRACK**
#4131, 6063-T6



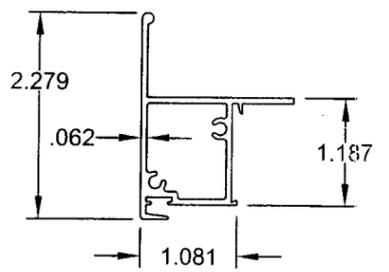
4 **SASH STOP COVER**
#4053, 6063-T5



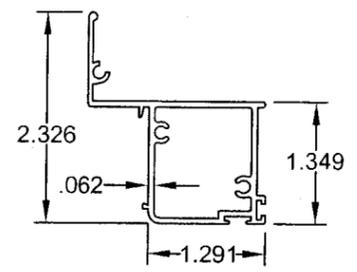
17 **FIXED MEETING RAIL**
#4054A, 6063HD-T6



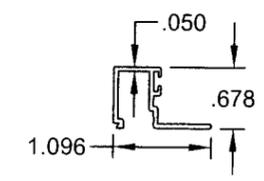
21 **SASH TOP & BOTTOM RAIL**
#4133, 6063-T5



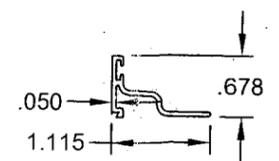
32 **SASH MTG. RAIL**
#4006D, 6063HS-T6



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



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



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

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 07-0829.08
Expiration Date 01/02/2013
By *[Signature]*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 06-0717.04
Expiration Date JAN. 2, 2008
By *[Signature]*
Miami Dade Product Control
Division

[Signature]
10/06/06
Robert L. Clark, P.E.
PE #39712
Structural

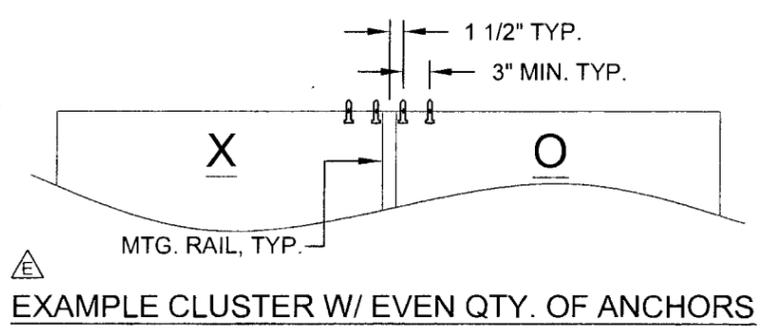
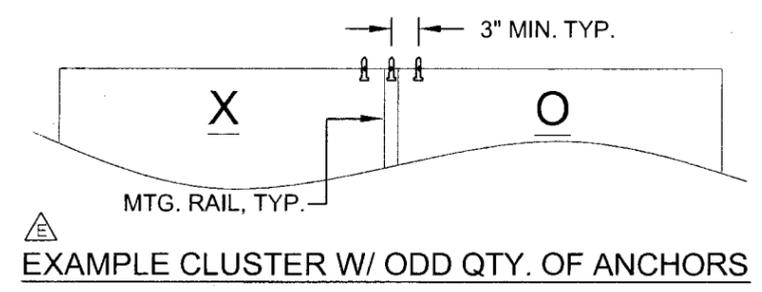
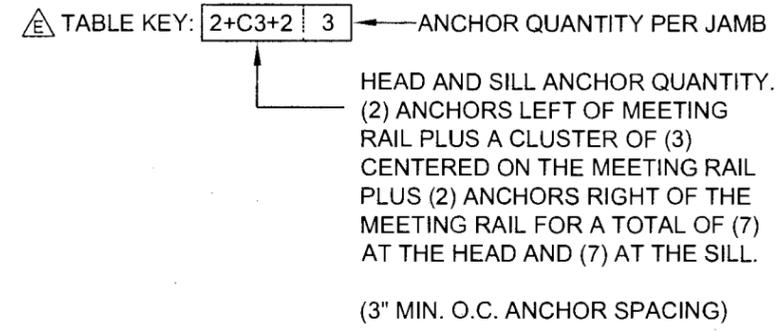
Revsd By: F.K.	Date: 10/2/06	Revisions: E	NO CHG THIS SHT	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	PGT Visibly Better	Description: EXTRUSIONS				
Revsd By: F.K.	Date: 12/14/05	Revisions: D	REDRAWN, NEW ITEMS 6, 7 & 8 UPGRADE ITEMS 1, 13, 17, 21, 32, 37, & 55			Title: ALUM. HORIZONTAL ROLLER WINDOW, SM MISSILE				
Revsd By: L.T.	Date: 12/30/02	Revisions: C	NO CHG THIS SHT			Series/Model: HR810	Scale: Half	Sheet: 4 of 6	Drawing No. 4121-2	Rev: E
Drawn By: F.K.	Date: 7/30/02	Checked By: J.J.	Date: 3/27/06							

ANCHOR QUANTITIES FOR XO AND OX WINDOWS - TABLE 2.

ANCHOR TYPE & SUBSTRATE	WINDOW SIZE v W H	GLASS TYPE A						GLASS TYPE B					
		2,3, WOOD		2, CONC		1, CONC		2,3, WOOD		2, CONC		1, CONC	
		ZONES		ZONES		ZONES		ZONES		ZONES		ZONES	
HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS	HEAD & SILL	JAMBS
26.500 x 36.000	38.375	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1	2
	48.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3
	50.625	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3
	54.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3
	60.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3
	63.000	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	3
	37.000 x 36.000	38.375	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1	2	1+C3+1
48.000 x 36.000	38.375	2+C3+2	3	1+C3+1	2	1+C3+1	2	2+C3+2	3	1+C3+1	2	1+C3+1	2
	48.000	2+C4+2	4	1+C3+1	3	1+C3+1	3	2+C4+2	4	1+C3+1	3	1+C3+1	3
	50.625	2+C4+2	4	1+C3+1	3	1+C3+1	3	2+C4+2	4	1+C3+1	3	1+C3+1	3
	54.000	2+C4+2	4	1+C4+1	3	1+C3+1	3	2+C4+2	4	1+C4+1	3	1+C3+1	3
	60.000	2+C5+2	5	1+C4+1	3	1+C3+1	3	2+C5+2	5	1+C4+1	3	1+C3+1	3
	63.000	2+C5+2	5	1+C4+1	3	1+C3+1	3	2+C5+2	5	1+C4+1	3	1+C3+1	3
	53.125 x 36.000	38.375	2+C3+2	3	2+C3+2	2	1+C3+1	2	2+C3+2	3	2+C3+2	2	1+C3+1
48.000		2+C4+2	4	2+C3+2	3	1+C3+1	3	2+C4+2	4	2+C3+2	3	1+C3+1	3
50.625		2+C4+2	4	2+C4+2	3	1+C3+1	3	2+C4+2	4	2+C4+2	3	1+C3+1	3
54.000		2+C5+2	5	2+C4+2	3	1+C3+1	3	2+C5+2	5	2+C4+2	3	1+C3+1	3
60.000		2+C5+2	5	2+C4+2	3	1+C3+1	3	2+C5+2	5	2+C4+2	3	1+C3+1	3
63.000		2+C6+2	6	2+C5+2	4	1+C4+1	3	2+C6+2	6	2+C5+2	4	1+C4+1	3
60.000 x 36.000		38.375	2+C3+2	3	2+C3+2	2	2+C3+2	2	2+C3+2	3	2+C3+2	2	2+C3+2
	48.000	2+C4+2	4	2+C4+2	3	2+C3+2	3	2+C4+2	4	2+C4+2	3	2+C3+2	3
	50.625	2+C5+2	5	2+C4+2	3	2+C3+2	3	2+C5+2	5	2+C4+2	3	2+C3+2	3
	54.000	2+C5+2	5	2+C4+2	3	2+C3+2	3	2+C5+2	5	2+C4+2	3	2+C3+2	3
	60.000	2+C6+2	6	2+C5+2	4	2+C4+2	3	2+C6+2	6	2+C5+2	4	2+C4+2	3
	63.000	2+C6+2	6	2+C5+2	4	1+C4+1	3	2+C6+2	6	2+C5+2	4	2+C4+2	3
	66.000 x 36.000	38.375	3+C3+3	3	2+C3+2	2	2+C3+2	2	3+C3+3	3	2+C3+2	2	2+C3+2
48.000		3+C4+3	4	2+C4+2	3	2+C3+2	3	3+C4+3	4	2+C4+2	3	2+C3+2	3
50.625		3+C5+3	5	2+C4+2	3	2+C3+2	3	3+C5+3	5	2+C4+2	3	2+C3+2	3
54.000		3+C5+3	5	2+C4+2	3	2+C3+2	3	3+C5+3	5	2+C4+2	3	2+C3+2	3
60.000		2+C5+2	5	2+C5+2	3	2+C3+2	3	3+C6+3	6	2+C5+2	4	2+C4+2	3
63.000		2+C6+2	6	2+C5+2	4	2+C4+2	3	3+C6+3	6	2+C5+2	4	2+C4+2	3
74.000 x 36.000		38.375	3+C3+3	3	3+C3+3	2	2+C3+2	2	3+C3+3	3	3+C3+3	2	2+C3+2
	48.000	3+C5+3	5	3+C4+3	3	2+C3+2	3	3+C5+3	5	3+C4+3	3	2+C3+2	3
	50.625	3+C5+3	5	2+C4+2	3	2+C3+2	3	3+C5+3	5	3+C4+3	3	2+C3+2	3
	54.000	3+C5+3	5	2+C4+2	3	2+C3+2	3	3+C5+3	5	3+C5+3	4	2+C4+2	3
	60.000	3+C5+3	5	2+C4+2	3	2+C3+2	3	3+C6+3	6	3+C5+3	4	2+C4+2	3
	63.000	3+C5+3	5	2+C5+2	3	2+C4+2	3	3+C7+3	7	3+C6+3	4	2+C4+2	3

NOTES:

- ANCHOR TYPES:
 - 1 - 5/16" ELCO TAPCONS
 - 2 - 1/4" ELCO SS4 CRETE-FLEX
 - 3 - #12 STEEL SCREWS (G5)
- GLASS TYPES:
 - A. 7/16" LAMI, (3/16"A, INTERLAYER, 3/16"A)
 - B. 7/16" LAMI, (3/16"HS, INTERLAYER, 3/16"HS)
- ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING TESTED DIMENSIONS AT FULL DP:
 - HEAD & SILL: 10 1/2" MAX. ON EACH SIDE OF AND ON MEETING RAIL CENTERLINE..
 - JAMBS: 9" MAX. FROM CORNERS AND 22 1/2" MAX. O.C.
- INSTALL XO AND OX WINDOWS IN MIAMI-DADE COUNTY PER ADJACENT TABLE. FOR WINDOW SIZES NOT SHOWN, GO TO NEXT LARGER WINDOW IN TABLE.

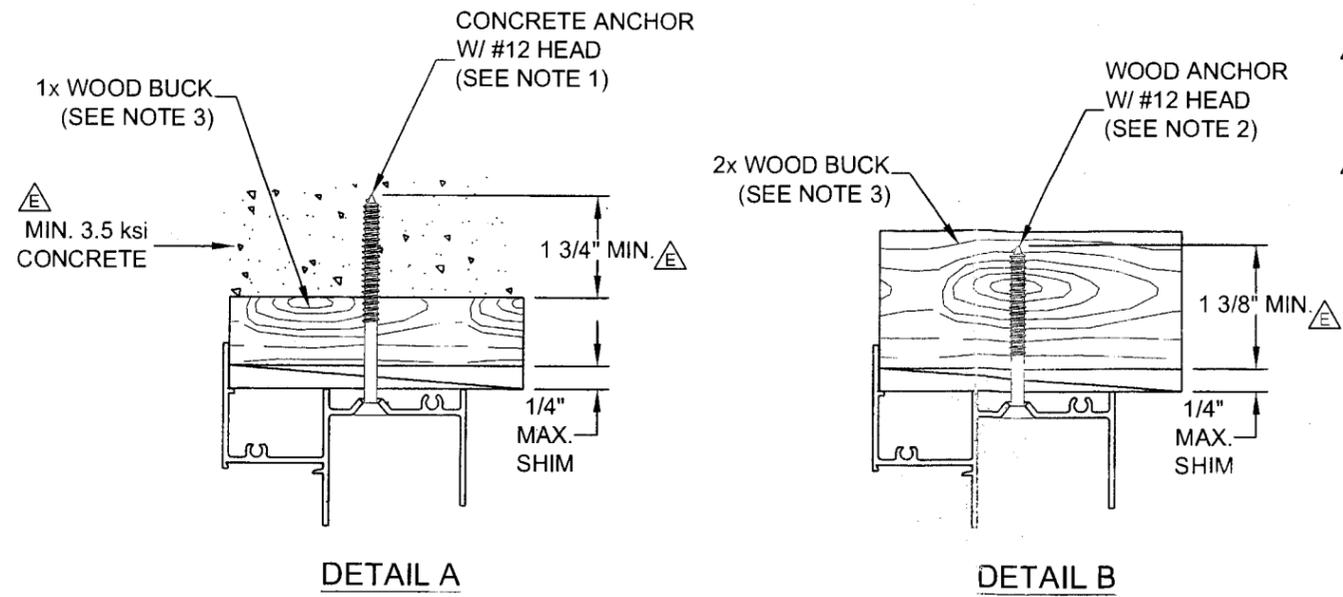


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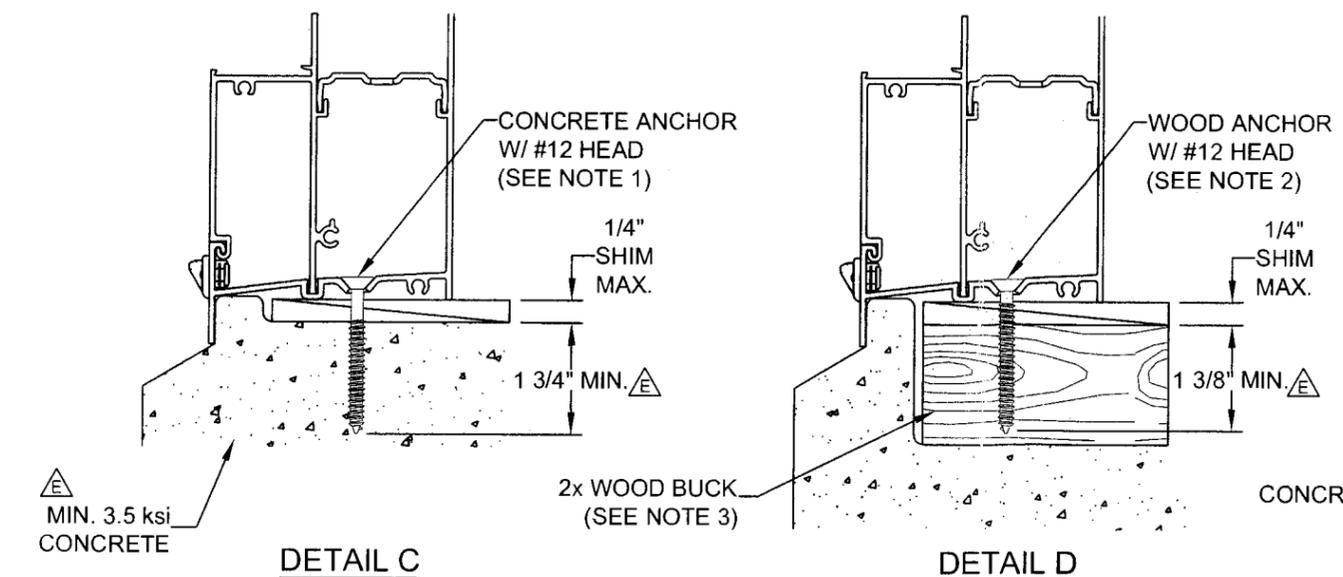
[Signature]
10/6/06
Robert L. Ciark, P.E.
PE #39712
Structural

Revsd By: F.K.	Date: 10/2/06	Revisions: E	REVISE ANCHOR TABLE 2. REMOVE DP LIMITATIONS REVISE CLUSTERS.	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	PGT Visibly Better	Description: ANCHOR SPACING				
Revsd By: F.K.	Date: 12/14/05	Revisions: D	NEW SHEET			Title: ALUM. HORIZONTAL ROLLER WINDOW, SM MISSILE				
Revsd By:	Date:	Revisions:				Series/Model: HR810	Scale: Half	Sheet: 5 of 6	Drawing No: 4121-2	Rev: E
Drawn By: F.K.	Date: 8/15/02	Checked By: J.J.	Date: 3/27/06							



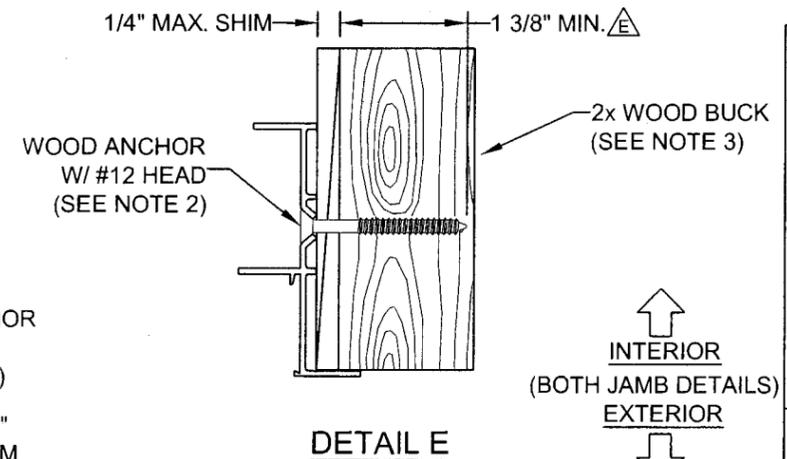
TYPICAL HEAD SECTIONS

← EXTERIOR INTERIOR →
(HEAD & SILL DETAILS)

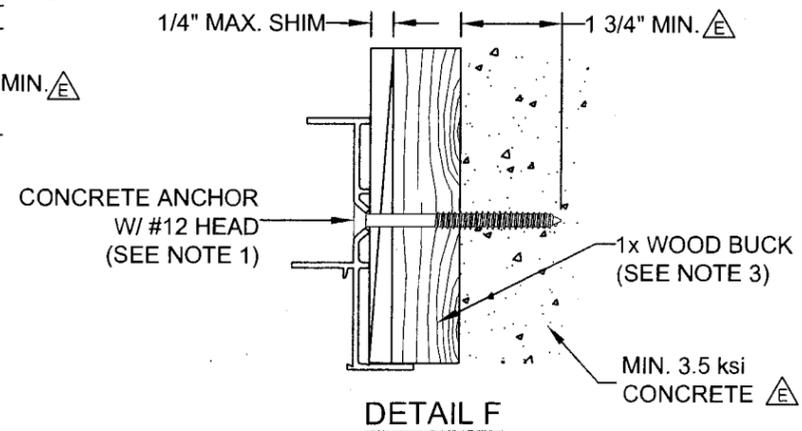


TYPICAL SILL SECTIONS

- NOTES:**
1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 5/16" ELCO TAPCONS OR 1/4" SS4 CRETE-FLEX. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 2".
 2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 STEEL SCREWS (G5) OR ELCO 1/4" SS4 CRETE-FLEX.
 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 #12 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR TAPCONS MAY BE USED.



↑ INTERIOR
(BOTH JAMB DETAILS)
↓ EXTERIOR



TYPICAL JAMB SECTIONS

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Miami Dade Product Control
Division

Revsd By: F.K.	Date: 10/2/06	Revisions: E	SPEC CONCRETE & REVISE NOTES 1 & 2 AND UPGRADE ANCHOR EMBEDMENT
Revsd By: F.K.	Date: 12/14/05	Revisions: D	REDRAWN, ADDED NEW SILL AND REVISED ANCHORAGE
Revsd By: L.T.	Date: 12/30/02	Revisions: C	NO CHG THIS SHT
Drawn By: F.K.	Date: 7/30/02	Checked By: J.J.	Date: 3/27/06

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



Description: ANCHORAGE DETAILS				
Title: ALUM. HORIZONTAL ROLLER WINDOW, SM MISSILE				
Series/Model: HR810	Scale: Half	Sheet: 6 of 6	Drawing No. 4121-2	Rev: E

[Signature]
10/06/06
Robert L. Clark, P.E.
PE #39712
Structural