



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.maimidade.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 – LMI

APPROVAL DOCUMENT: Drawing No. **4121-1**, titled "Alum. Horizontal Roller Window, LG Missile", sheets 1 through 6 of 6, dated 4/22/02 with revision F dated 3/31/08, prepared by manufacturer, signed and sealed 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: Large and 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 revises NOA # **07-0829.10** 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.**



NOA No. 08-0408.03
Expiration Date: January 2, 2013
Approval Date: May 22, 2008
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

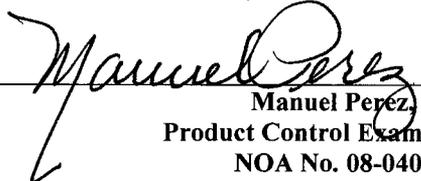
1. Manufacturer's die drawings and sections.
2. Drawing No **4121-1**, Sheets 1 through 6 of 6, titled "Alum. Horizontal Roller Window, LG Missile", dated 4/22/02, with revision F dated 3/31/08, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E.

B. TESTS

1. 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 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-4855**, dated 03/06/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA # 06-0717.03)
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 # 06-0717.03)
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) Large 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-3259**, dated February 22, 2002, signed and sealed by Luis Antonio Figueredo, P.E.
(Submitted under NOA # 02-0719.07)

C. CALCULATIONS

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by manufacturer, dated 03/27/06 revised on 10/3/06, signed and sealed by Robert L. Clark, P.E.
Complies with ASTM E1300-98


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0408.03
Expiration Date: January 2, 2013
Approval Date: May 22, 2008

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

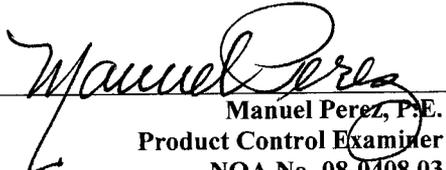
1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont SentryGlas ® Plus**" dated 01/03/08, expiring on 01/14/12.
2. Notice of Acceptance No. **03-0415.13** issued to Solutia Inc. for their "**Vanceva Composites used for lamination of glass**" dated 12/11/03, expiring on 12/11/08.
3. 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.
4. 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, dated October 6, 2006, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of no financial interest, dated October 6, 2006, signed and sealed by Robert L. Clark, P.E.
3. Laboratory compliance letter for Test Report no. **FTL- 4855**, issued by Fenestration Testing Laboratory, Inc., dated March 9, 2006, signed and sealed by Edmundo Largaespada, P.E.
4. Laboratory compliance letter for Test Report no. **FTL-3259**, issued by Fenestration Testing Laboratory, Inc., dated March 26, 2002, signed and sealed by Luis Figueredo, P.E. (*Submitted under NOA # 02-0719.07*)

G. OTHER

1. Notice of Acceptance No. **07-0829.10**, issued to PGT Industries for their "Series "HR-810 Multi-Story" Aluminum Horizontal Roller Window – L.M.I." approved on 11/22/07 and expiring on 01/02/13.

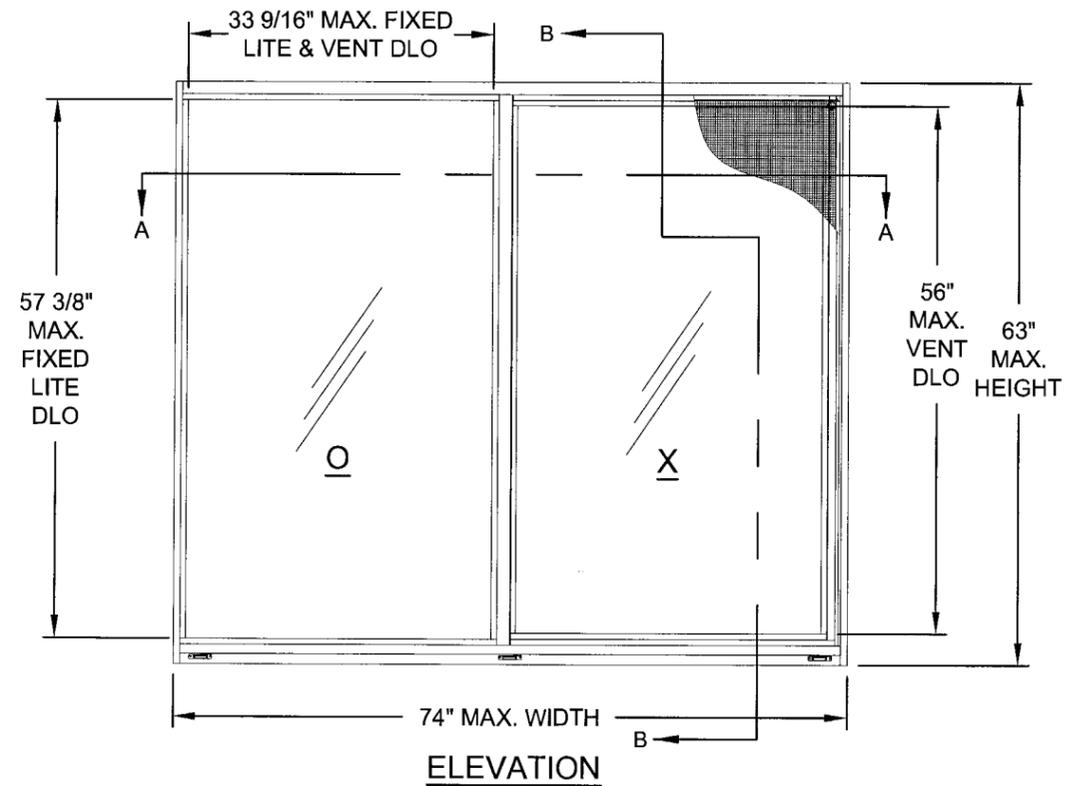
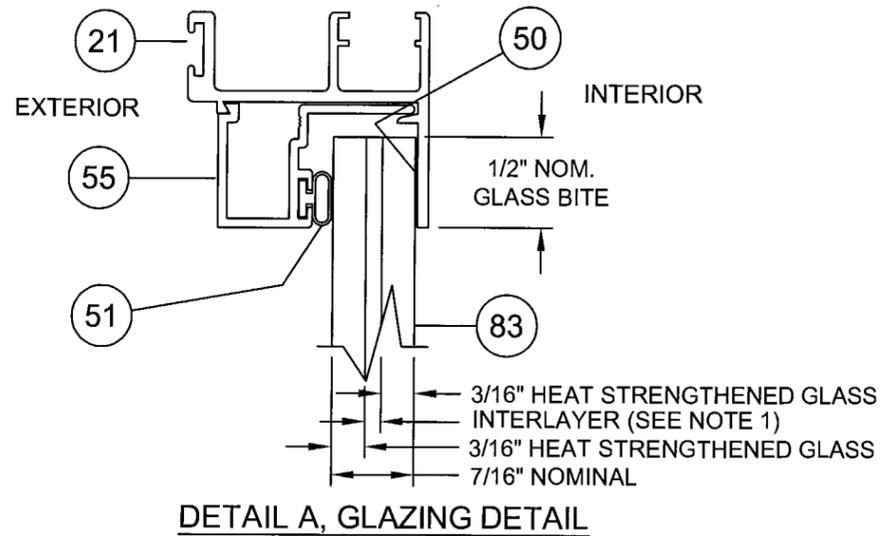

Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0408.03
Expiration Date: January 2, 2013
Approval Date: May 22, 2008

GENERAL NOTES: LARGE MISSILE HORIZONTAL ROLLER WINDOW

1. GLAZING: 7/16" LAMI, CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN INTERLAYER OF SENTRY GLASS PLUS OR VANCEVA STORM.
2. CONFIGURATIONS: OX, XO
3. DESIGN PRESSURES: (SEE TABLE 1.)
 - A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-98 OR ASTM E 1300-02.
 - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-98 OR 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. SHUTTERS ARE NOT REQUIRED.
6. FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT OR GASKET.
7. REFERENCE TEST REPORTS: FTL-3259 AND FTL-4855.

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 |



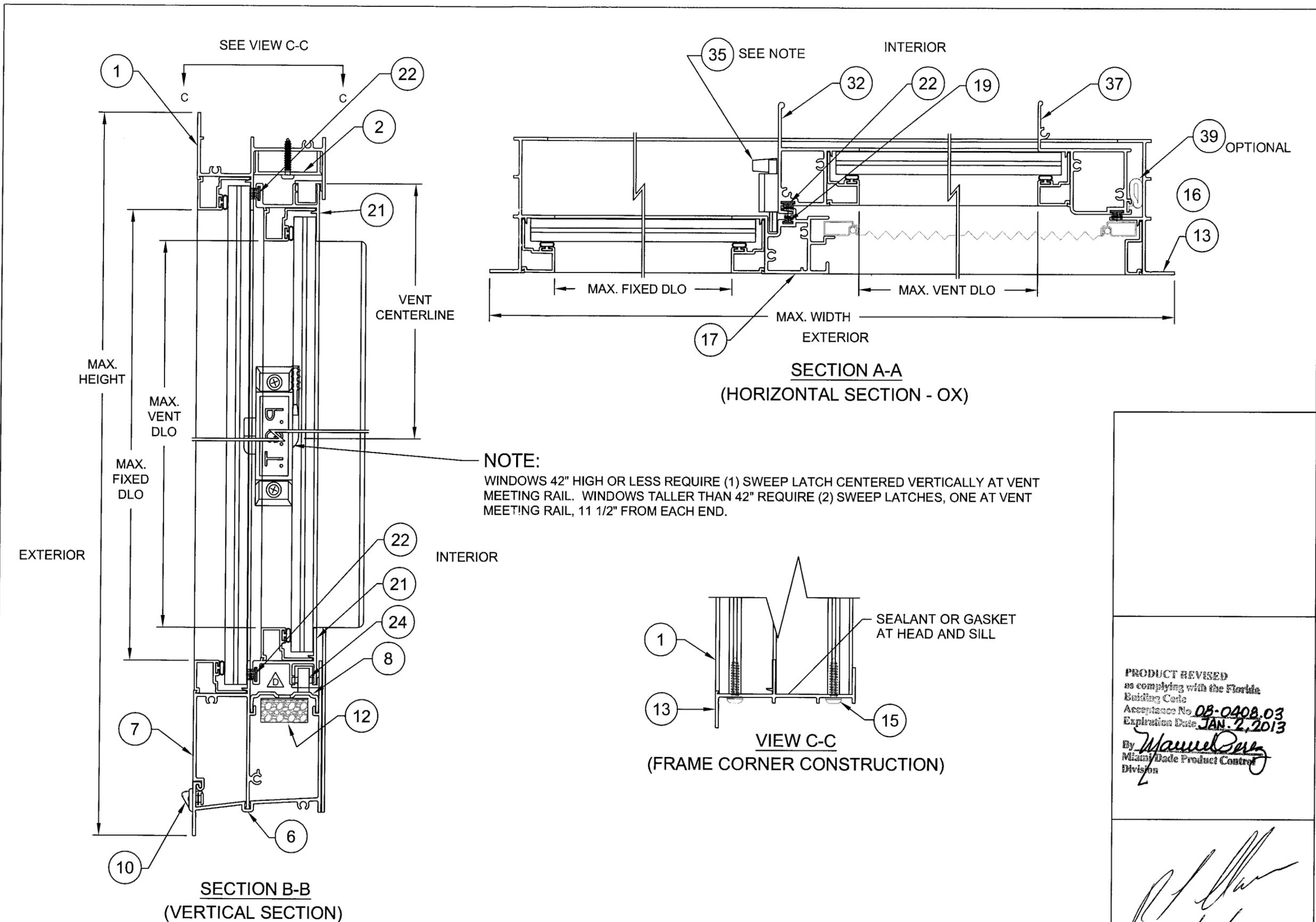
DESIGN PRESSURE TABLE 1.

| | | |
|--|-------|--------|
| FULL DP ALL SIZES UP 74" WIDE x 63" HIGH | +90.0 | -110.0 |
|--|-------|--------|

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **08-0408.03**
 Expiration Date **JAN. 2, 2013**
 By *Manuel Perez*
 Miami Dade Product Control
 Division

Robert L. Clark
 3/31/08
 Robert L. Clark, P.E.
 PE #39712
 Structural

| | | | | | | | | | | |
|----------------|----------------|------------------|---|--|------------------------------|--|------------|---------------|--------------------|--------|
| Revsd By: D.G. | Date: 3/31/08 | Revisions: F | NO CHG THIS SHT | 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 | PGT Visibly Better | Description: NOTES, ELEVATION, GLAZING DETAIL & DP TABLE | | | | |
| Revsd By: F.K. | Date: 9/29/06 | Revisions: E | CHANGE NOTE 3 TO REFERENCE ASTM E 1300-02. | | | Title: ALUM. HORIZONTAL ROLLER WINDOW, LG MISSILE | | | | |
| Revsd By: F.K. | Date: 12/15/05 | Revisions: D | REDRAWN, ADDED NEW SILL AND REVISED ANCHORAGE | | | Series/Model: HR810 | Scale: NTS | Sheet: 1 of 6 | Drawing No. 4121-1 | Rev: F |
| Drawn By: F.K. | Date: 4/22/02 | Checked By: J.J. | Date: 3/27/06 | | | | | | | |



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.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **DB-0408.03**
 Expiration Date **JAN. 2, 2013**
 By *Marcus Perry*
 Miami Dade Product Control
 Division

Robert L. Clark
 3/31/08
 Robert L. Clark, P.E.
 PE #39712
 Structural

| | | | | | | | | | | |
|----------------|----------------|------------------|----------------------------|--|------------------------------|--|-------------|---------------|--------------------|--------|
| Revsd By: D.G. | Date: 3/31/08 | Revisions: F | NO CHG THIS SHT | 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 | PGT Visibly Better | Description: SECTIONS | | | | |
| Revsd By: F.K. | Date: 9/29/06 | Revisions: E | ADD SWEEP LATCH NOTE | | | Title: ALUM. HORIZONTAL ROLLER WINDOW, LG MISSILE | | | | |
| Revsd By: F.K. | Date: 12/15/05 | Revisions: D | REDRAWN AND ADDED NEW SILL | | | Series/Model: HR810 | Scale: Half | Sheet: 2 of 6 | Drawing No. 4121-1 | Rev: F |
| Drawn By: F.K. | Date: 4/22/02 | Checked By: J.J. | Date: 3/27/06 | | | | | | | |

| 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 WEA THERSTRIP .187 X .275 | | 67070K |
| 40 | | | LIFT RAIL COVER CAP | | 74078" C" L OR R |
| 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 |
| 83 | | | GLASS, 7/16" LAMI (3/16 HS, .090 SENTRY GLASS PLUS OR .075 VANCEVA STORM, 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: | Date: | Revisions: | |
| D.G. | 3/31/08 | F | NO CHANGE THIS SHEET |
| Revsd By: | Date: | Revisions: | |
| F.K. | 9/29/06 | E | NO CHANGE THIS SHEET |
| Revsd By: | Date: | Revisions: | |
| F.K. | 12/15/05 | D | REDRAWN; NEW ITEMS 6, 7, 8 & 39 UPGRADED ITEMS 10, 12, 13, 14, 16, 17, 32, 50, 56 & 83 |
| Drawn By: | Date: | Checked By: | Date: |
| F.K. | 4/22/02 | J.J. | 3/27/06 |

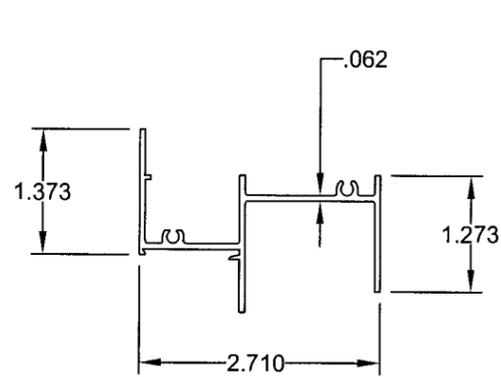
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



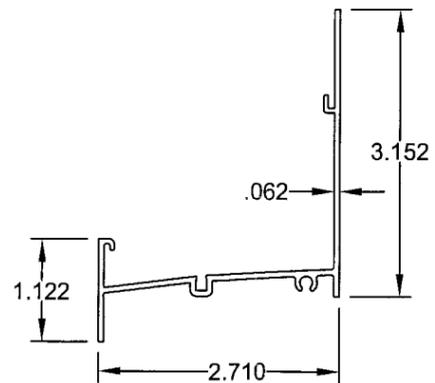
| | | | |
|--|--------|--------|-------------|
| Description: | | | |
| PARTS LIST & FRAME CORNER CONSTRUCTION | | | |
| Title: | | | |
| ALUM. HORIZONTAL ROLLER WINDOW, LG MISSILE | | | |
| Series/Model: | Scale: | Sheet: | Drawing No. |
| HR810 | NTS | 3 of 6 | 4121-1 |
| | | | Rev: |
| | | | F |

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **08-0408.03**
Expiration Date **JAN. 2, 2013**
By: *Marcus Perry*
Miami Dade Product Control
Division

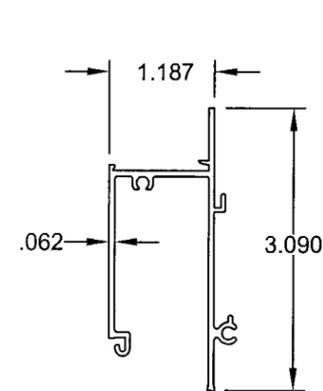
Robert L. Clark
3/31/08
Robert L. Clark, P.E.
PE #39712
Structural



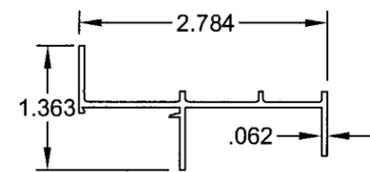
1 **FLANGE FRAME HEAD**
#4102A, 6063-T6



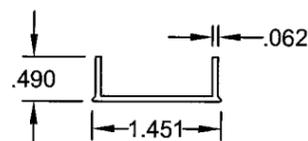
6 **FLANGE FRAME SILL**
#4136, 6063-T6



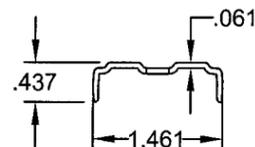
7 **FRAME SILL ADAPTER**
#4137, 6063-T6



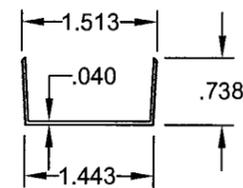
13 **FLANGE FRAME JAMB**
#4002A, 6063-T6



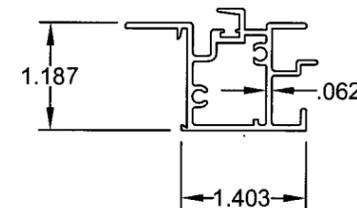
2 **SASH STOP**
#4025, 6063-T5



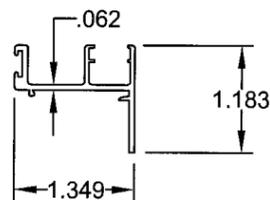
8 **HORIZ. ROLLER TRACK**
#4131, 6063-T6



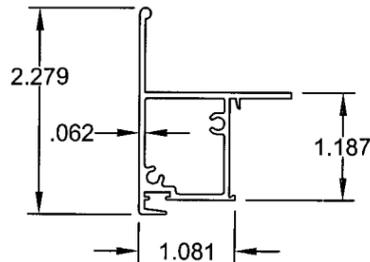
4 **SASH STOP COVER**
#4053, 6063-T5



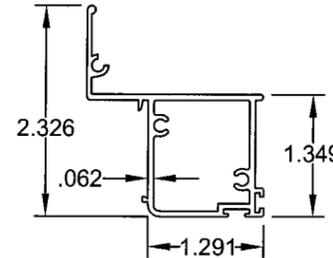
17 **FIXED MEETING RAIL**
#4054A, 6063HD-T6



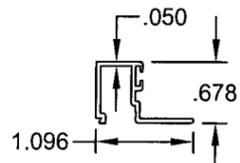
21 **SASH TOP & BOTTOM RAIL**
#4133, 6063-T5



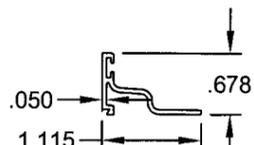
32 **SASH MTG. RAIL**
#4006D, 6063HS-T6



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)

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Miami Code Product Control
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Robert L. Clark
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Robert L. Clark, P.E.
PE #39712
Structural

| | | | |
|-----------|----------|-------------|---|
| Revsd By: | Date: | Revisions: | |
| D.G. | 3/31/08 | F | NO CHG THIS SHT |
| Revsd By: | Date: | Revisions: | |
| F.K. | 9/29/06 | E | NO CHG THIS SHT |
| Revsd By: | Date: | Revisions: | |
| F.K. | 12/15/05 | D | REDRAWN, NEW ITEMS 6, 7 & 8 UPGRADE ITEMS 13, 17, 21, 32 & 37 |
| Drawn By: | Date: | Checked By: | Date: |
| F.K. | 4/22/02 | J.J. | 3/27/06 |

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

PGT
Visibly Better

| | | | |
|--|--------|--------|--------------|
| Description: | | | |
| EXTRUSIONS | | | |
| Title: | | | |
| ALUM. HORIZONTAL ROLLER WINDOW, LG MISSILE | | | |
| Series/Model: | Scale: | Sheet: | Drawing No.: |
| HR810 | Half | 4 of 6 | 4121-1 |
| Rev: | | | F |

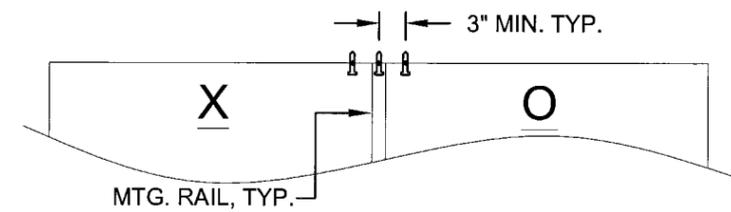
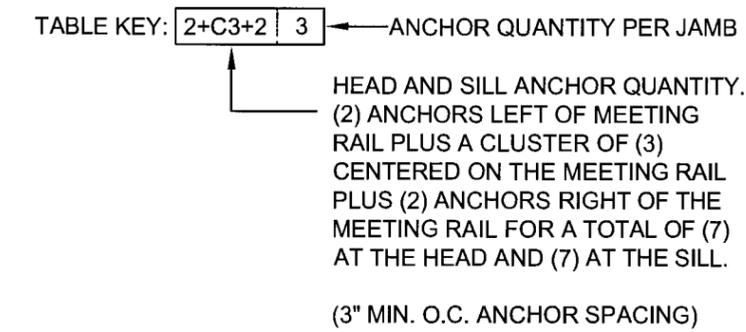
ANCHOR QUANTITIES FOR XO AND OX WINDOWS - TABLE 2.

| WINDOW SIZE v W H | | ANCHOR TYPE & SUBSTRATE | | 2,3, WOOD | | 2, CONC | | 1, CONC | |
|-------------------------|--------|-------------------------|-------|-------------|-------|-------------|-------|---------|--|
| | | ZONES | | ZONES | | ZONES | | | |
| | | HEAD & SILL | JAMBS | HEAD & SILL | JAMBS | HEAD & SILL | JAMBS | | |
| 37.000 x | 38.375 | 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 | | |
| | 50.625 | 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 | | |
| | 60.000 | 1+C3+1 | 3 | 1+C3+1 | 3 | 1+C3+1 | 3 | | |
| 48.000 | 38.375 | 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 | | |
| | 50.625 | 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 | | |
| | 60.000 | 1+C4+1 | 4 | 1+C3+1 | 3 | 1+C3+1 | 3 | | |
| 53.125 x | 38.375 | 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 | | |
| | 50.625 | 1+C3+1 | 3 | 1+C3+1 | 3 | 1+C3+1 | 3 | | |
| | 54.000 | 1+C4+1 | 4 | 1+C3+1 | 3 | 1+C3+1 | 3 | | |
| | 60.000 | 1+C4+1 | 4 | 1+C3+1 | 3 | 1+C3+1 | 3 | | |
| 60.000 x | 38.375 | 2+C3+2 | 2 | 2+C3+2 | 2 | 1+C3+1 | 2 | | |
| | 48.000 | 2+C3+2 | 3 | 2+C3+2 | 3 | 1+C3+1 | 3 | | |
| | 50.625 | 2+C3+2 | 3 | 2+C3+2 | 3 | 1+C3+1 | 3 | | |
| | 54.000 | 2+C4+2 | 4 | 2+C3+2 | 3 | 1+C3+1 | 3 | | |
| | 60.000 | 2+C4+2 | 4 | 2+C4+2 | 3 | 1+C3+1 | 3 | | |
| 66.000 x | 36.000 | 2+C3+2 | 2 | 2+C3+2 | 2 | 1+C3+1 | 2 | | |
| | 38.375 | 2+C3+2 | 3 | 2+C3+2 | 2 | 1+C3+1 | 2 | | |
| | 48.000 | 2+C3+2 | 3 | 2+C3+2 | 3 | 1+C3+1 | 3 | | |
| | 50.625 | 2+C4+2 | 4 | 2+C3+2 | 3 | 1+C3+1 | 3 | | |
| | 54.000 | 2+C4+2 | 4 | 2+C3+2 | 3 | 1+C3+1 | 3 | | |
| 74.000 x | 36.000 | 2+C3+2 | 2 | 2+C3+2 | 2 | 2+C3+2 | 2 | | |
| | 38.375 | 2+C3+2 | 3 | 2+C3+2 | 2 | 2+C3+2 | 2 | | |
| | 48.000 | 2+C4+2 | 4 | 2+C3+2 | 3 | 2+C3+2 | 3 | | |
| | 50.625 | 2+C4+2 | 4 | 2+C3+2 | 3 | 2+C3+2 | 3 | | |
| | 54.000 | 2+C4+2 | 4 | 2+C3+2 | 3 | 2+C3+2 | 3 | | |
| 60.000 | 60.000 | 2+C5+2 | 5 | 2+C4+2 | 3 | 2+C3+2 | 3 | | |
| | 63.000 | 2+C5+2 | 5 | 2+C4+2 | 3 | 2+C3+2 | 3 | | |

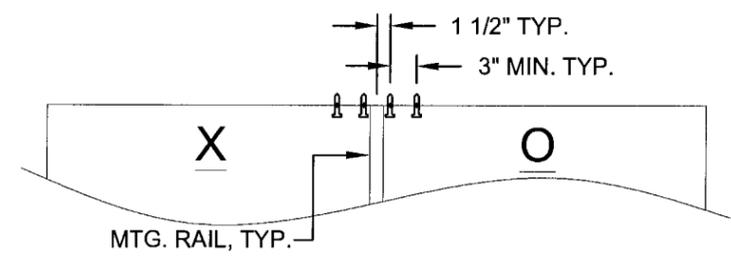
NOTES:

- ANCHOR TYPES:
1 - 5/16" ELCO TAPCONS
2 - 1/4" ELCO SS4 CRETE-FLEX
3 - #12 STEEL SCREWS (G5)
- GLASS TYPE: 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.



EXAMPLE CLUSTER W/ ODD QTY. OF ANCHORS



EXAMPLE CLUSTER W/ EVEN QTY. OF ANCHORS

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 08-0A08.03
Expiration Date JAN. 2, 2013
By Manuel Perez
Miami Dade Product Control
Division

Robert L. Clark
3/31/08

Robert L. Clark, P.E.
PE #39712
Structural

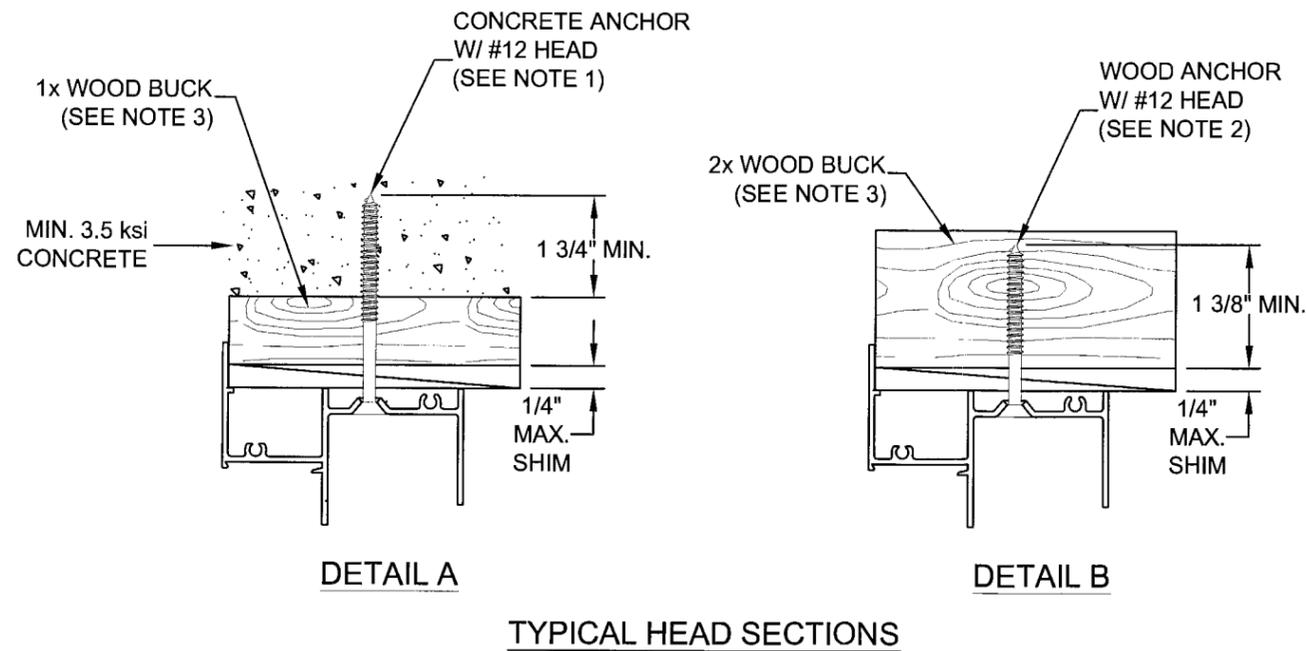
| | | | |
|----------------|----------------|------------------|---|
| Revsd By: D.G. | Date: 3/31/08 | Revisions: F | CORRECTED WINDOW WIDTH DUPLICATE FROM 66.000 TO 74.000 - TABLE 2. |
| Revsd By: F.K. | Date: 9/29/06 | Revisions: E | REVISE ANCHOR TABLE 2. REMOVE DP LIMITATIONS REVISE CLUSTERS. |
| Revsd By: F.K. | Date: 12/15/05 | Revisions: D | NEW SHEET |
| Drawn By: F.K. | Date: 4/22/02 | Checked By: J.J. | Date: 3/27/06 |

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274



| | | | |
|---|-------------|---------------|--------------------|
| Description: ANCHORAGE SPACING | | | |
| Title: ALUM. HORIZONTAL ROLLER WINDOW, LG MISSILE | | | |
| Series/Model: HR810 | Scale: Half | Sheet: 5 of 6 | Drawing No. 4121-1 |
| | | | Rev: F |

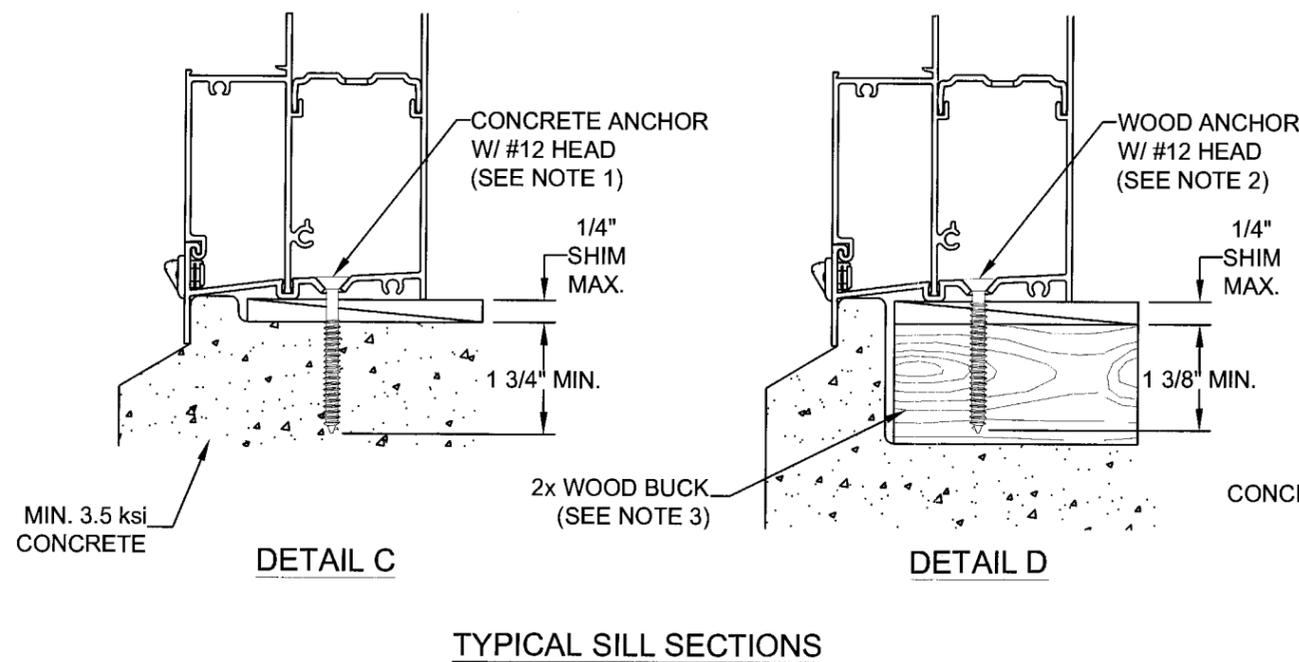


NOTES:

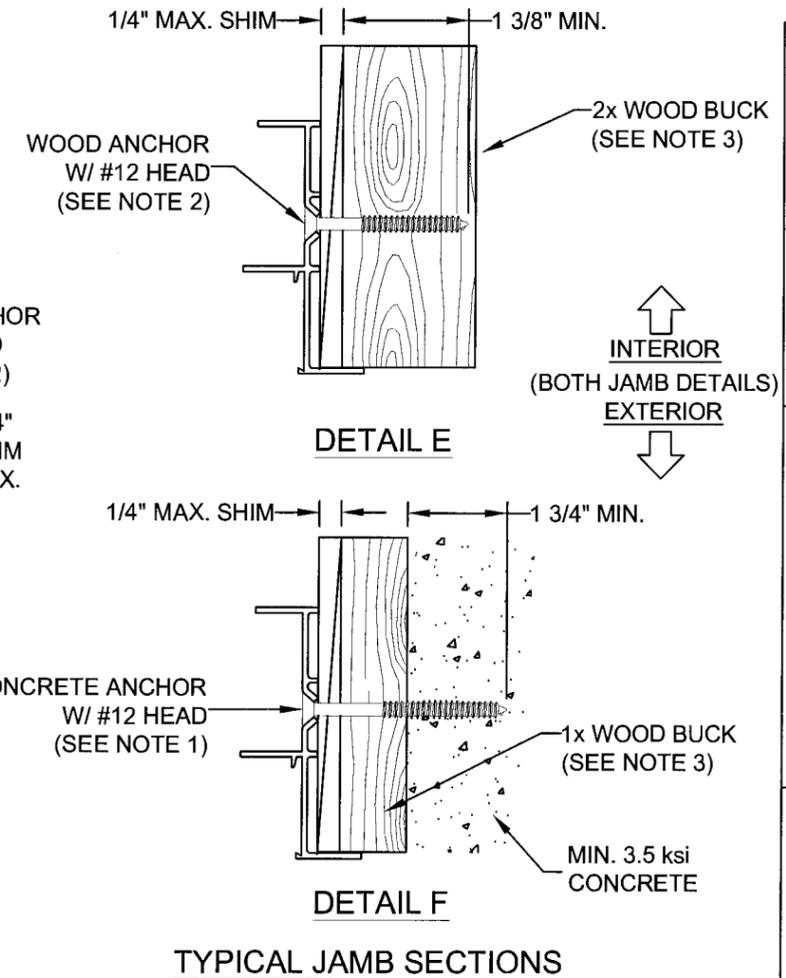
1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 5/16" ELCO TAPCONS OR 1/4" SS4 CRETE-FLEX. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 2".
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 STEEL SCREWS (G5) OR ELCO 1/4" SS4 CRETE-FLEX.
3. WOOD BUCKS DEPICTED 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.

TYPICAL HEAD SECTIONS

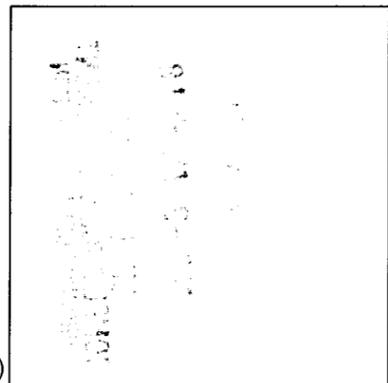
← EXTERIOR INTERIOR →
(HEAD & SILL DETAILS)



TYPICAL SILL SECTIONS



TYPICAL JAMB SECTIONS



PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 08-0408-03
Expiration Date JAN. 2, 2013
By *Manuel Perez*
Miami Dade Product Control
Division

Robert L. Clark
3/31/08
Robert L. Clark, P.E.
PE #39712
Structural

| | | | |
|----------------|----------------|------------------|---|
| Revsd By: D.G. | Date: 3/31/08 | Revisions: F | NO CHG THIS SHT |
| Revsd By: F.K. | Date: 9/29/06 | Revisions: E | SPEC CONCRETE & REVISE NOTES 1 & 2 AND UPGRADE ANCHOR EMBEDMENT |
| Revsd By: F.K. | Date: 12/15/05 | Revisions: D | REDRAWN, ADDED NEW SILL AND REVISED ANCHORAGE |
| Drawn By: F.K. | Date: 4/22/02 | Checked By: J.J. | Date: 3/27/06 |

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| | | | |
|---|-------------|---------------|--------------------|
| Description: ANCHORAGE DETAILS | | | |
| Title: ALUM. HORIZONTAL ROLLER WINDOW, LG MISSILE | | | |
| Series/Model: HR810 | Scale: Half | Sheet: 6 of 6 | Drawing No. 4121-1 |
| | | | Rev: F |