



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

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION
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 820 Aluminum Fixed Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **4246-5** titled "Mid-Rise Alum. Picture Window (SM. Missile)", sheets 1 through 6 of 6, prepared by manufacturer, dated 04/17/03 with revision A dated 04/12/07, signed and sealed by Robert L. Clark, P.E., bearing the Miami-Dade County Product Control Renewal 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.

REVISION 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 #07-0424.07** 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 Pérez, P.E.**



NOA No. 08-0429.09
Expiration Date: July 24, 2013
Approval Date: June 26, 2008
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **4246-5** titled "Mid-Rise Alum. Picture Window (SM. Missile)", sheets 1 through 6 of 6, prepared by manufacturer, dated 04/17/03, with revision A dated 04/12/07, signed and sealed by Robert L. Clarke, P.E.
(Submitted under NOA# 07-0424.07)

B. TESTS

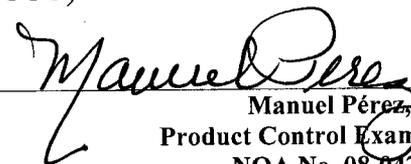
1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
Along with marked-up drawings and installation diagram of an aluminum picture window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3765**, dated 04/01/03, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.01)
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 an aluminum picture window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL -3767**, dated 04/01/03, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.01)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of an aluminum picture window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3538**, dated 08/09/02, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, dated 04/16/07, prepared, signed and sealed by Robert L. Clark, P.E.
Complies with ASTM E1300-98/02

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 08-0429.09

Expiration Date: July 24, 2013
Approval Date: June 26, 2008

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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. **05-1208.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite PVB Interlayer**" dated 01/05/06, expiring on 12/11/10.
3. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored Interlayer**" dated 05/04/06, expiring on 05/21/11.

F. STATEMENTS

1. Statement letter of conformance to Florida Building Code, dated 04/24/08, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of no financial interest, dated 04/24/08, signed and sealed by Robert L. Clark, P.E.

G. OTHERS

1. Notice of Acceptance No. **07-0424.07**, issued to PTG Industries, Inc. for their Series "820" Aluminum Picture Window – Small Missile, approved on 06/21/07 and expiring on 07/24/08.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 08-0429.09
Expiration Date: July 24, 2013
Approval Date: June 26, 2008

SMALL MISSILE IMPACT EQUAL LEG PICTURE WINDOW

- GLAZING OPTION:** 7/16" LAMINATED GLASS CONSISTING OF (2) LITES OF 3/16" TEMPERED GLASS WITH A .090 PVB INTERLAYER OF DUPONT BUTACITE PVB OR SAFLEX/KEEPSAFE MAXIMUM.
- DESIGN PRESSURE RATING:** SEE TABLE 1
 - NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLE ASTM E 1300-02.
 - POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLE ASTM E 1300-02.
- ANCHORAGE:** 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, CURRENT EDITION.

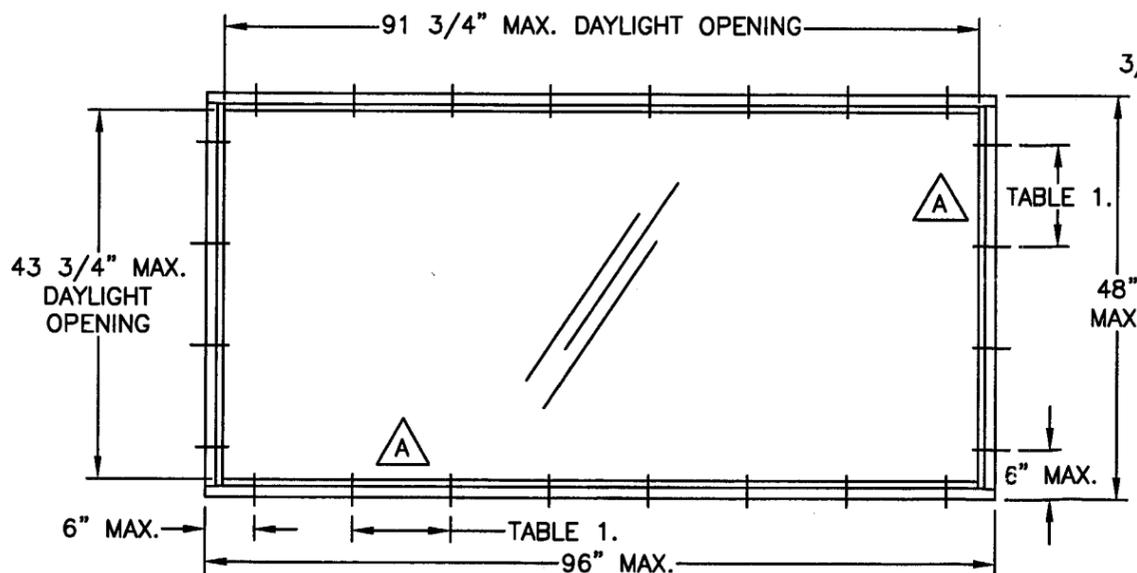
ANCHOR TYPES:

- #12 STEEL (G5) SCREW,
- 1/4" ELCO TAPCON,
- 1/4" ELCO SS4 CRETE-FLEX

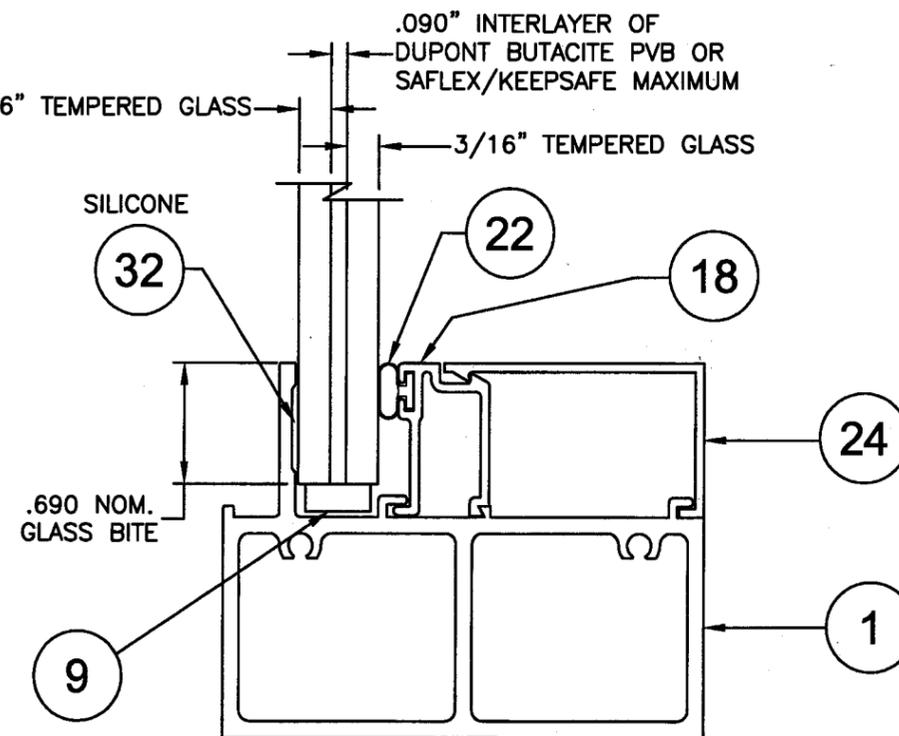
6" MAX. FROM CORNERS AND MAX. O.C. SPACING FROM TABLE 1. SEE SHEET 6 FOR ADDITIONAL ANCHORAGE INFORMATION,

- SHUTTER REQUIREMENT:** MIAMI-DADE COUNTY APPROVED SHUTTERS ARE ONLY REQUIRED AT INSTALLATIONS BELOW 30 FEET. (NONE REQUIRED AT INSTALLATIONS ABOVE 30 FT. GRADE)
- NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME AND ON THE OUTSIDE OF FRAME TO SEAL EXPOSED SCREWS.
- MAXIMUM WINDOW AREA NOT TO EXCEED 32 SQ. FT. (DLO = 27.88 SQ. FT.) AND DIMENSIONS OF 48" BY 96".
- REFERENCES:** TEST REPORTS, FTL-3538, FTL-3765 AND FTL-3767
ELCO TEXTRON NOA: 04-0721.01, 03-0225.05
ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
ADM-2000 ALUMINUM DESIGN MANUAL
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

TABLE 1. DESIGN PRESSURE		+110.0	-140.0
SUBSTRATE:	ANCHOR MAX. ON-CENTER DIMENSION		
	WOOD	CONCRETE	
ANCHOR TYPE:	1	3	2
	O.C. DIM.	7 11/16"	9 3/8"



ELEVATION



GLAZING DETAIL

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0429.09
Expiration Date 07/24/2013
By *Manuel Perry*
Miami Dade Product Control
Division

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 07-0424.07
Expiration Date 07/24/08
By *M. Clark*
Miami Dade Product Control
Division

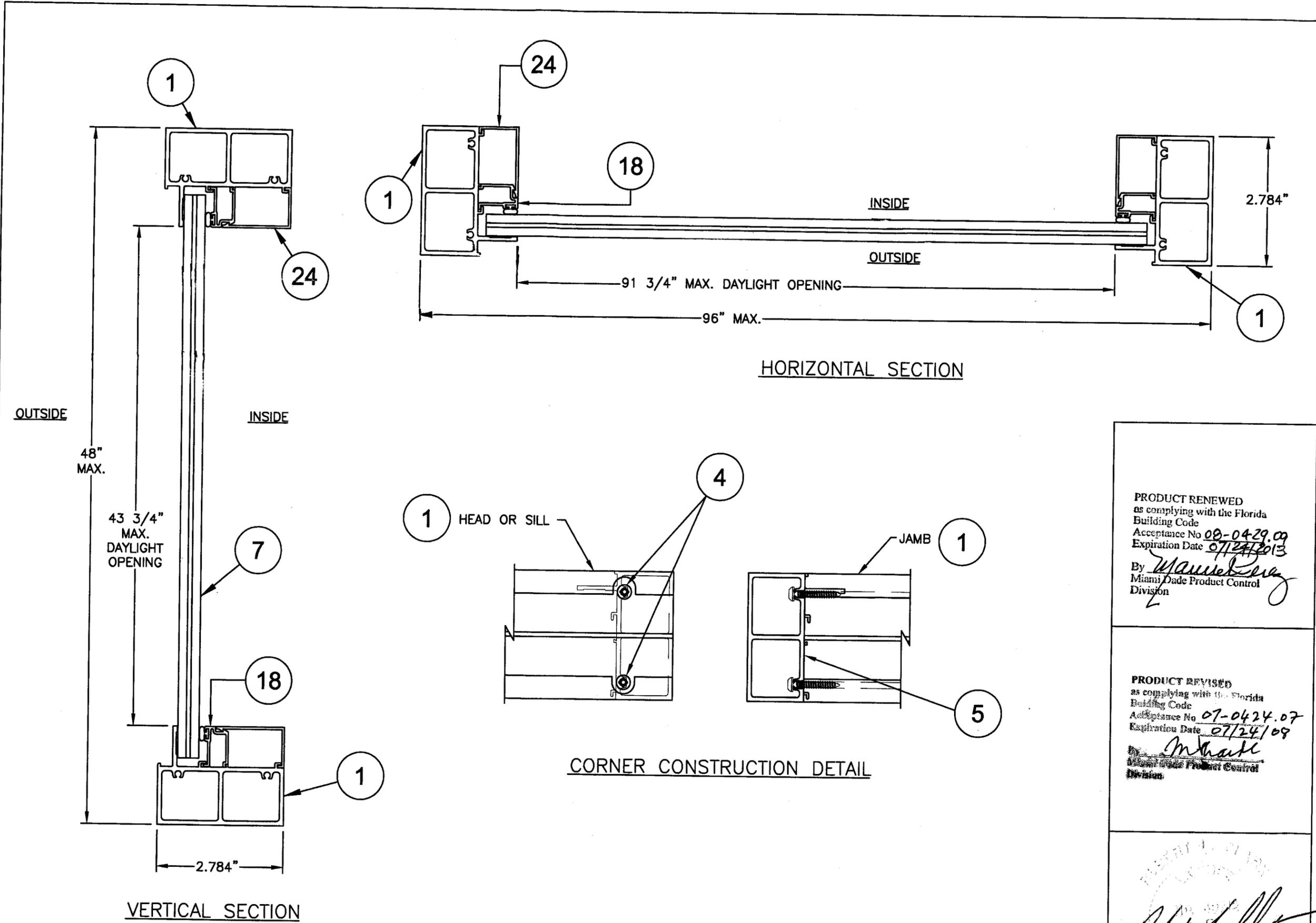
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
F.K.	4/12/07	A	UPDATE NOTES AND REVISE ANCHORAGE
Drawn By:	Date:	Checked By:	Date:
F.K.	4/17/03		

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



Description:			
ELEVATION, GLAZING & NOTES (EQUAL LEG)			
Title:			
MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)			
Series/Model:	Scale:	Sheet:	Drawing No.
PW-820	NTS	1 of 6	4246-5
Rev:			A

Robert L. Clark
4/20/07
Robert L. Clark, P.E.
PE #39712
Structural



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 08-0429.09
 Expiration Date 07/24/2013
 By *Maurice Perry*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 07-0424.07
 Expiration Date 07/24/09
 By *M. H. Clark*
 Miami Dade Product Control
 Division

Robert L. Clark
 4/20/07
 Robert L. Clark, P.E.
 PE #39712
 Structural

Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
Revised By:	Date:	Revisions:	
F.K.	4/12/07	A	NO CHANGE THIS SHEET
Drawn By:	Date:	Checked By:	Date:
F.K.	4/17/03		

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



Description:			
SECTIONS & CORNER ASSEMBLY (EQUAL LEG)			
Title:			
MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)			
Series/Model:	Scale:	Sheet:	Drawing No.
PW-820	NTS	2 of 6	4246-5
			Rev:
			A

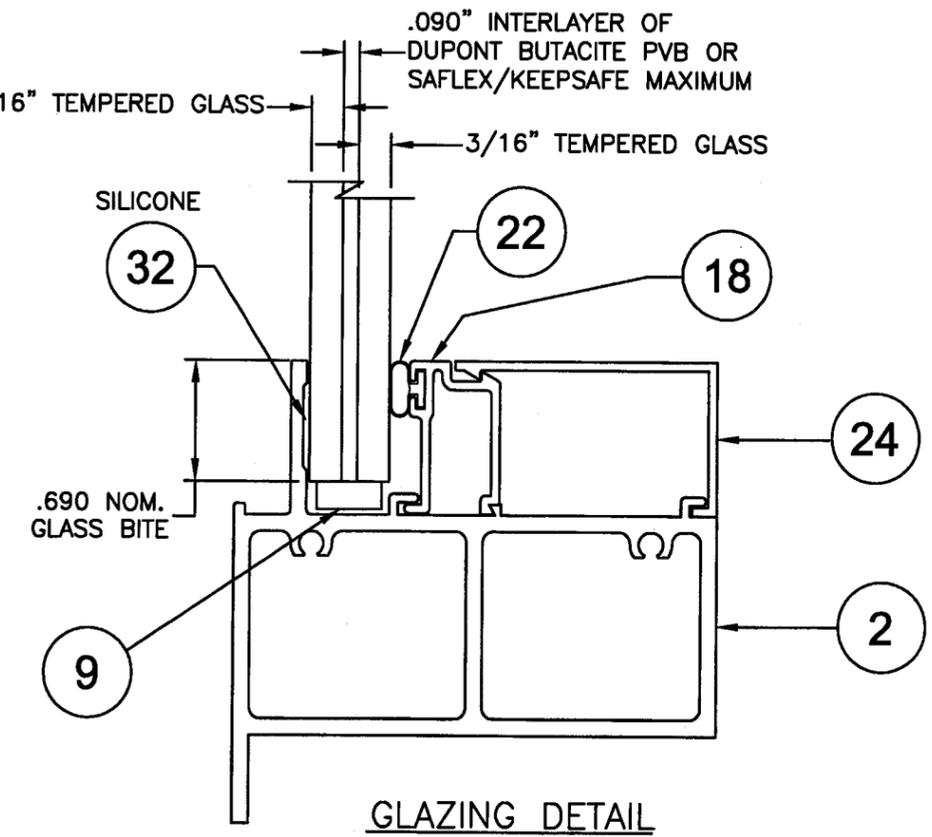
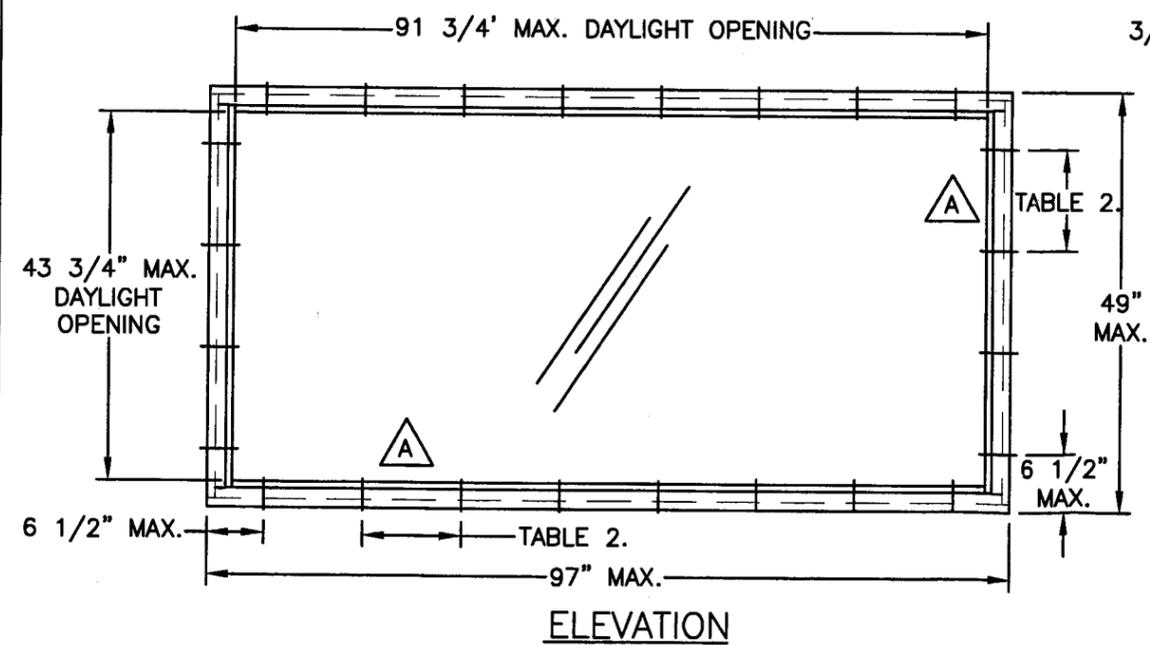
SMALL MISSILE IMPACT FLANGED PICTURE WINDOW

1. **GLAZING OPTIONS:** 7/16" LAMINATED GLASS CONSISTING OF (2) LITES OF 3/16" TEMPERED GLASS WITH A .090 PVB INTERLAYER OF DUPONT BUTACITE PVB OR SAFLEX/KEEPSAFE MAXIMUM.
2. **DESIGN PRESSURE RATING:** SEE TABLE 2
 - A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLE ASTM E 1300-02.
 - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLE ASTM E 1300-02.
3. **ANCHORAGE:** 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, CURRENT EDITION.

ANCHOR TYPES:
 1) #12 STEEL(G5) SCREW, 2) 1/4" ELCO TAPCON, 3) 1/4" ELCO SS4 CRETE-FLEX

6 1/2" MAX. FROM CORNERS AND MAX. O.C. SPACING FROM TABLE 2. SEE SHEET 6 FOR ADDITIONAL ANCHORAGE INFORMATION,
4. **SHUTTER REQUIREMENT:** MIAMI-DADE COUNTY APPROVED SHUTTERS ARE ONLY REQUIRED AT INSTALLATIONS BELOW 30 FEET. (NONE REQUIRED AT INSTALLATIONS ABOVE 30 FT. GRADE)
5. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME AND ON THE OUTSIDE OF FRAME TO SEAL EXPOSED SCREWS.
6. MAXIMUM WINDOW AREA NOT TO EXCEED 33 SQ. FT. (DLO = 27.88 SQ. FT.) AND TIP-TO-TIP DIMENSIONS OF 49" BY 97".
7. **REFERENCES:** TEST REPORTS, FTL-3538 AND FTL-3767
 ELCO TEXTRON NOA: 04-0721.01, 03-0225.05
 ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
 ADM-2000 ALUMINUM DESIGN MANUAL
8. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

SUBSTRATE:	ANCHOR MAX ON-CENTER DIMENSION			
	WOOD		CONCRETE	
ANCHOR TYPE:	1	3	2	3
O.C. DIM.	7 11/16"	9 3/8"	12"	12"



PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No 08-0429.09
 Expiration Date 07/24/2013
 By *Manuel Pera*
 Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 07-0424.07
 Expiration Date 07/24/08
 By *M. Pera*
 Miami Dade Product Control Division

Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Revsd By: F.K.	Date: 4/12/07	Revisions: A UPDATE NOTES AND REVISE ANCHORAGE
Drawn By: F.K.	Date: 4/17/03	Checked By: Date:

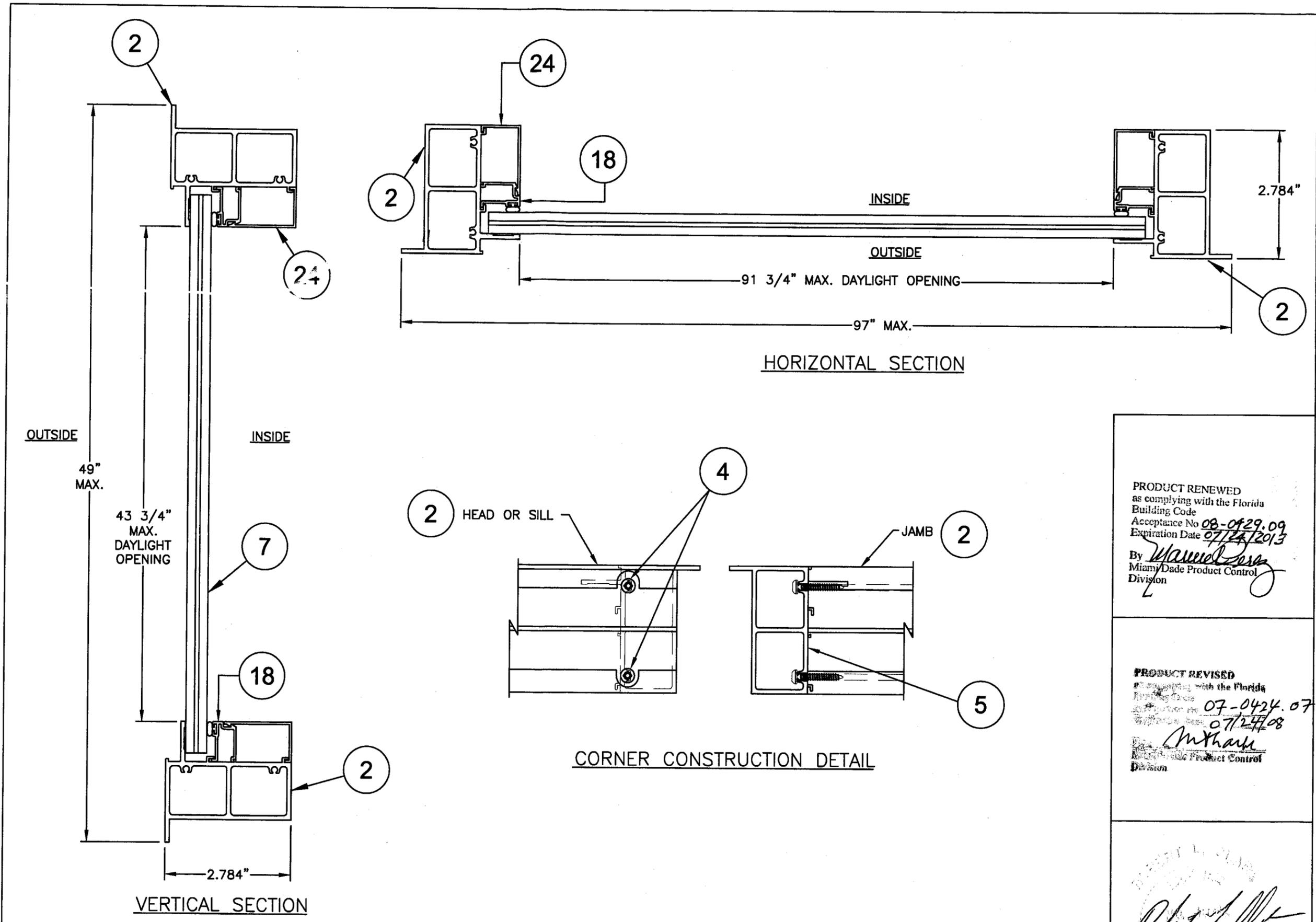
1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275

P.O. BOX 1529
 NOKOMIS, FL 34274



Description: ELEVATION, GLAZING & NOTES (FLANGED)			
Title: MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)			
Series/Model: PW-820	Scale: NTS	Sheet: 3 of 6	Drawing No. 4246-5
			Rev: A

Robert L. Clark
 4/20/07
 Robert L. Clark, P.E.
 PE #39712
 Structural



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0429.09
Expiration Date 07/24/2013
By *Manuel...*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 07-0424.07
Expiration Date 07/24/08
By *Ch...*
Miami Dade Product Control
Division

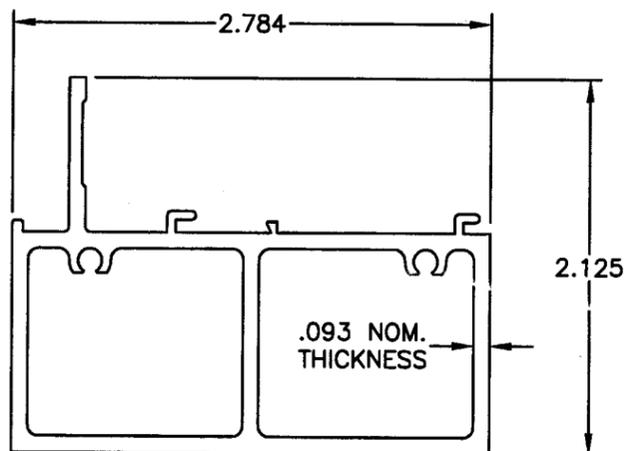
Robert L. ...
4/20/07
Robert L. ... P.E.
PE #39712
Structural

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
F.K.	4/12/07	A	NO CHANGE THIS SHEET
Drawn By:	Date:	Checked By:	Date:
F.K.	4/17/03		

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

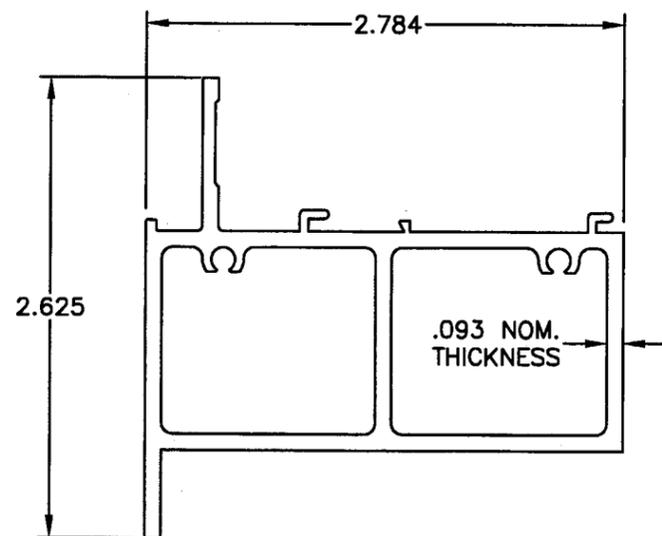


Description:			
SECTIONS & CORNER ASSEMBLY (FLANGED)			
Title:			
MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)			
Series/Model:	Scale:	Sheet:	Drawing No.
PW-820	NTS	4 of 6	4246-5
Rev:			
A			



INSIDE MOUNT EQUAL

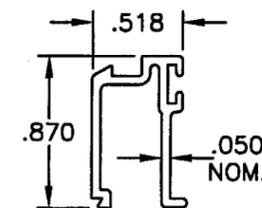
1 LEG FRAME
 MAT'L: 6063-T5
 DWG #4238B



INSIDE MOUNT FLANGED

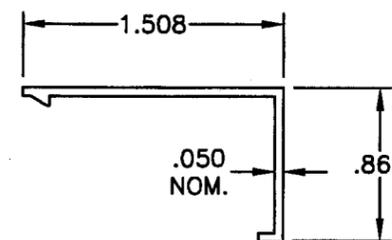
2 MAT'L: 6063-T5
 DWG #4239B

ITEM	DWG #	PGT. #	DESCRIPTION
1	4238B	64238	FRAME, INSIDE MOUNT EQUAL LEG
2	4239B	64239	FRAME, INSIDE MOUNT FLANGED
4	1155	781PQX	#8 X 1 QUAD PN SMS STAINLESS STEEL
5			SCHNEE-MOREHEAD SM5504 ACRYL-R NARROW JOINT SEALANT
7		7/16 LAMINATED	GLASS - 3/16 TEMPERED, .090 INNER LAYER, 3/16" TEMPERED
		INTERLAYER	DUPONT BUTACITE PVB
		OPTIONS:	SAFLEX/KEEPSAFE MAXIMUM
9	1265-4	712654K	SETTING BLOCK - 5/32" X 3/8" X 2" LONG
18	4251	64251	7/16 GLAZING BEAD
22	1224	6TP247	VINYL BULB WEATHERSTRIP (THICK)
24	4247	64247	TRIM COVER
32		SILICONE	DOW CORNING 899, 995 OR EQUIVALENT



7/16 GLAZING BEAD

18 MAT'L: 6063-T5
 DWG #4251



TRIM COVER

24 MAT'L: 6063-T5
 DWG #4247

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0429.09
 Expiration Date 07/24/2013
 By *M. Perez*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0424.07
 Expiration Date 07/24/08
 By *M. Clark*
 Miami Dade Product Control
 Division

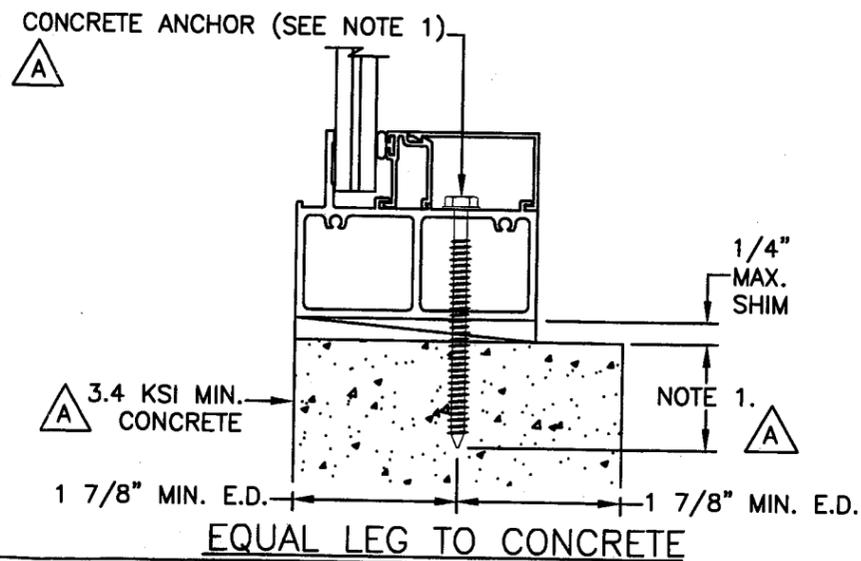
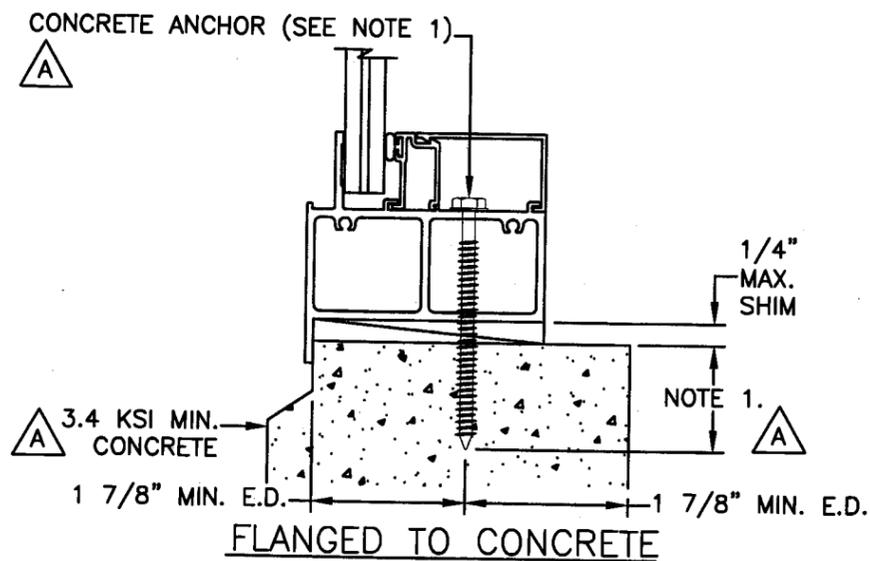
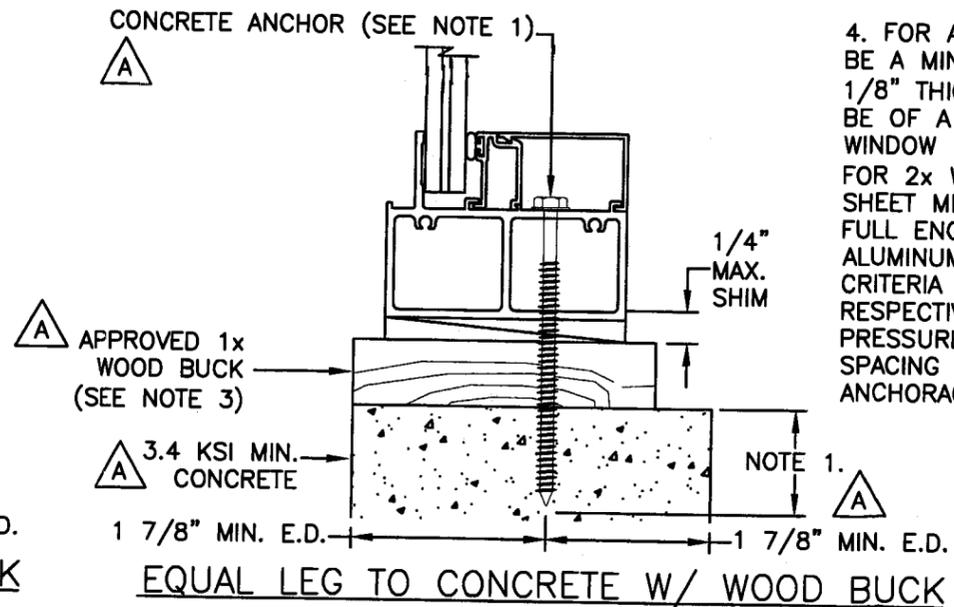
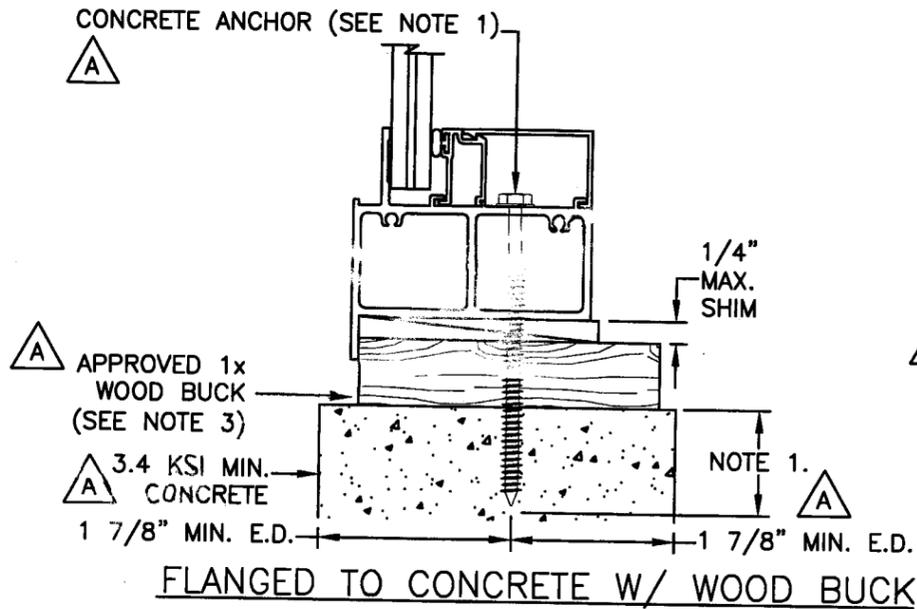
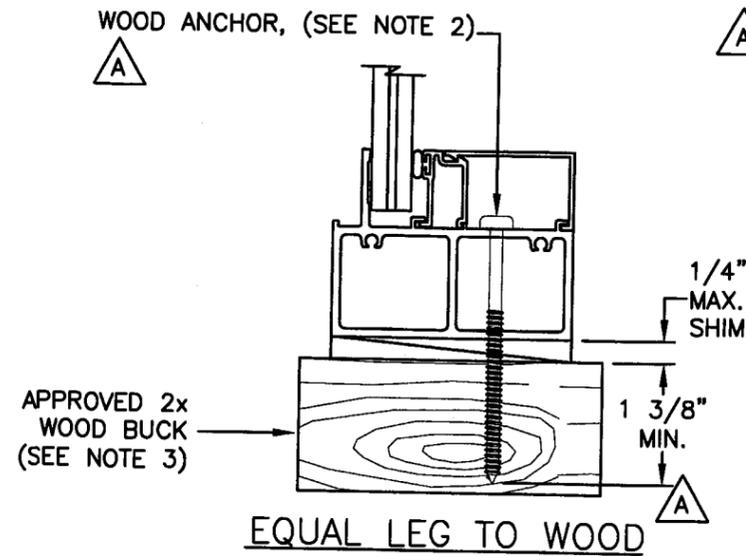
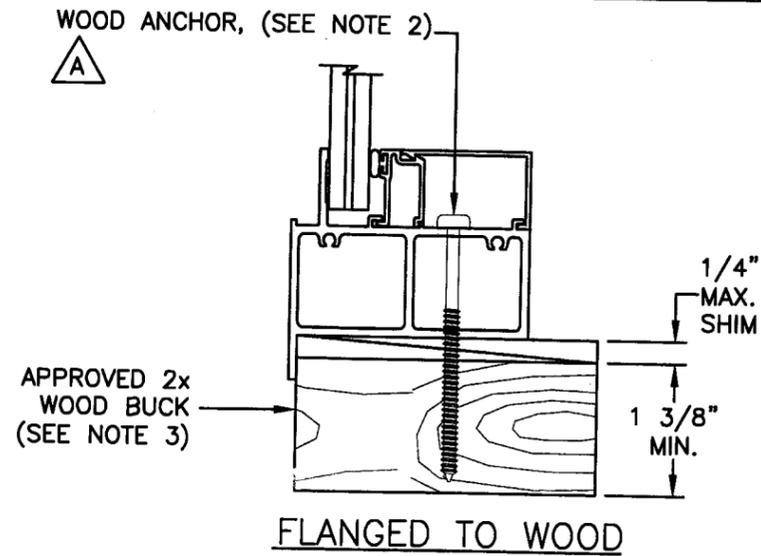
Robert L. Clark
 4/25/07
 Robert L. Clark, P.E.
 PE #39712
 Structural

Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Revsd By: F.K.	Date: 4/12/07	Revisions: A
Drawn By: F.K.	Date: 4/17/03	Checked By: Date:

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



Description:				
EXTRUSIONS & PARTS LIST				
Title: MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)				
Series/Model:	Scale:	Sheet:	Drawing No.	Rev.
PW-820	NTS	5 of 6	4246-5	A



- NOTES:**
1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" TAPCONS EMBEDDED 1 3/8" OR 1/4" SS4 CRETE-FLEX EMBEDDED 1 3/4". MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 7/8".
 2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 SCREWS OR 1/4" ELCO 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 CONCRETE ANCHORAGE MAY BE USED.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0429.09
Expiration Date 07/28/2013
By *Manuel Perez*
Miami/Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 07-0424.07
Expiration Date 07/24/08
By *M. Thair*
Miami/Dade Product Control
Division

Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Revsd By: F.K.	Date: 4/12/07	Revisions: A UPDATE ANCHORAGE DETAILS AND NOTES
Drawn By: F.K.	Date: 4/17/03	Checked By: Date:

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

PGT
Visibly Better

Description:		Title:	
ANCHORAGE		MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)	
Series/Model:	Scale:	Sheet:	Drawing No.
PW-820	NTS	6 of 6	4246-5
Rev:			
A			

Robert L. Clark
4/20/07
Robert L. Clark, P.E.
PE #39712
Structural