



**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) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "820" Aluminum Picture Window- Small Missile

APPROVAL DOCUMENT: Drawing No. **4246-5** titled "Mid-Rise Alum. Picture Window (Sm.Missile)", sheets 1 through 6 of 6, prepared by PGT Industries, dated 4/17/03 revised on 04/12/07, 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 expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Small Missile Impact

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 # 03-0508.01 and consists of this page 1, evidence page E1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Mohammed Iqbal Shaikh, P.E.**



**NOA No. 07-0424.07
Expiration Date: July 24, 2008
Approval Date: June 21, 2007**

PGT Industries

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 PGT Industries, dated 4/17/03 revised on 04/12/07, 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

along with marked-up drawings and installation diagram of an aluminum picture window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-03022, FTL 03024 and FTL 02095 dated 04/01/03 and 08/09/02, signed and sealed by Joseph Chan, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, dated 04/16/07, prepared, signed and sealed by Robert L. Clark, P.E.

D. MATERIAL CERTIFICATIONS

1. None

E. STATEMENTS

1. Statement letter of conformance to Florida Building Code, dated 04/20/07, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of no financial interest, dated 04/20/07, signed and sealed by Robert L. Clark, P.E.
3. Laboratory compliance letters for Fenestration Testing Laboratory, Inc., Test Report No. FTL 03022 and FTL 03024 dated 04/28/03, No. FTL 02095 dated 08/26/02 signed and sealed by Joseph Chan, P.E.

F. OTHER

NOA No. 03-0508.01



Mohammed Iqbal Shaikh, P.E.
Sr. Building Code Compliance Specialist
NOA No. 07-0424.07
Expiration Date: July 24, 2008
Approval Date: June 21, 2007

SMALL MISSILE IMPACT EQUAL LEG PICTURE WINDOW

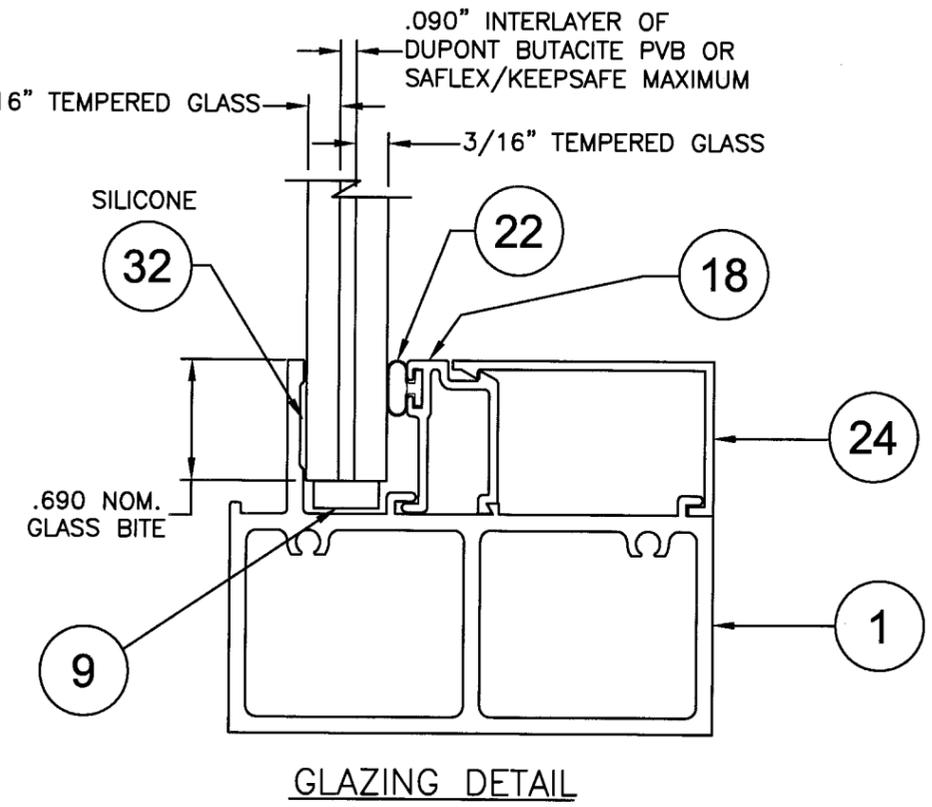
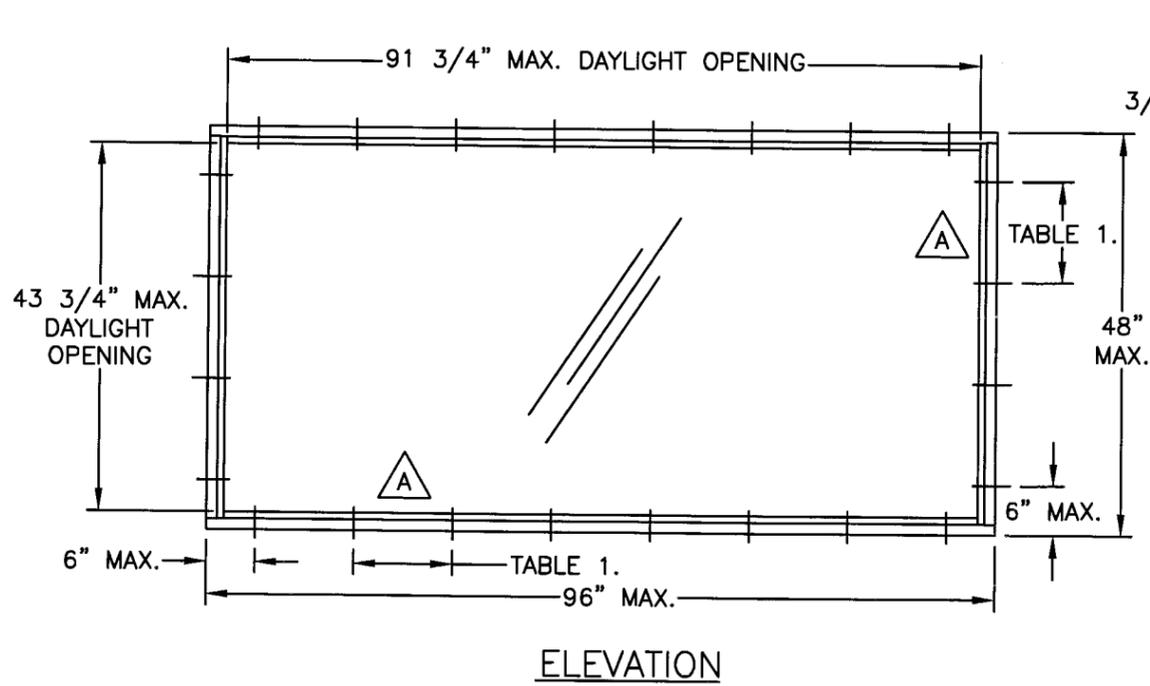
1. **GLAZING OPTION:** 7/16" LAMINATED GLASS CONSISTING OF (2) LITES OF 3/16" TEMPERED GLASS WITH A .090 PVB INTERLAYER OF DUPONT BUTACITE PVB OR SAFLEX/KEEPSAFE MAXIMUM.
2. **DESIGN PRESSURE RATING:** SEE TABLE 1
 - A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLE ASTM E 1300-02.
 - 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" MAX. FROM CORNERS AND MAX. O.C. SPACING FROM TABLE 1. 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 32 SQ. FT. (DLO = 27.88 SQ. FT.) AND DIMENSIONS OF 48" BY 96".
7. **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
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).

A

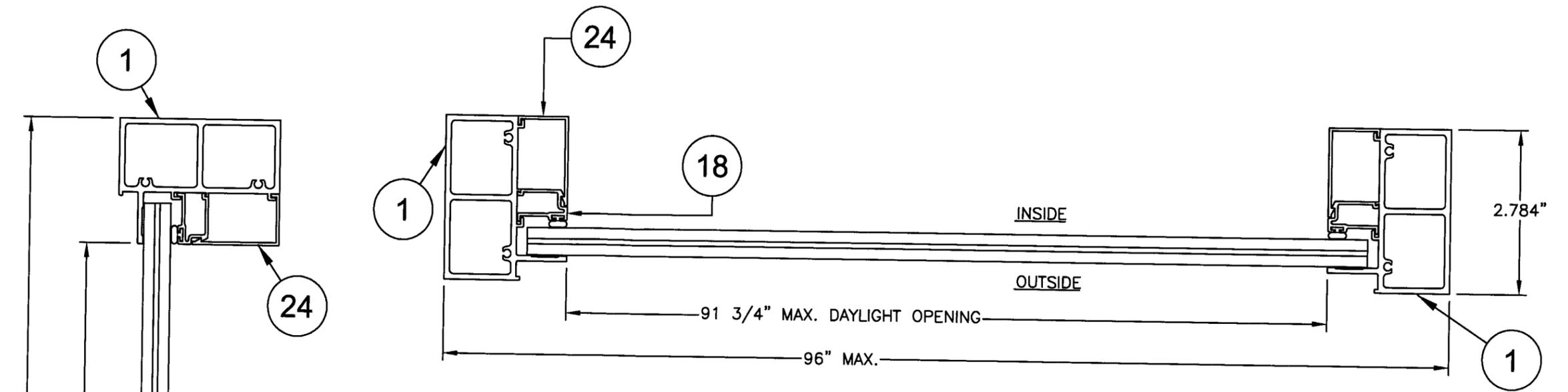
SUBSTRATE:	ANCHOR MAX ON-CENTER DIMENSION			
	WOOD		CONCRETE	
ANCHOR TYPE:	1	3	2	3
O.C. DIM.	7 11/16"	9 3/8"	12"	12"



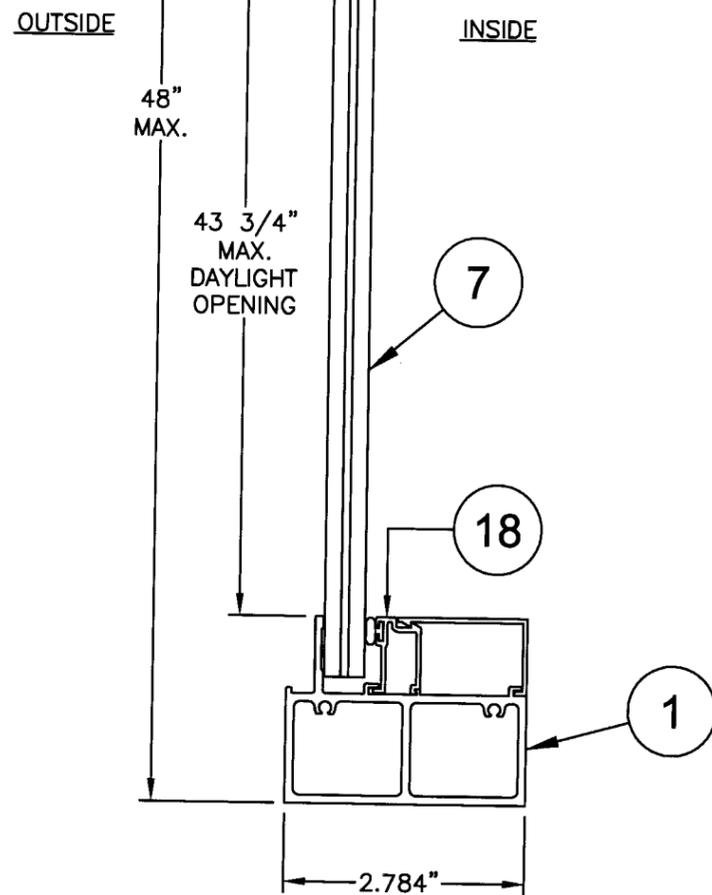
PRODUCT REVISED
 In compliance with the Florida Building Code
 Compliance No. 07-0424.07
 Issuance Date 07/24/08
M. Strain
 Miami Dade Product Control Division

Revsd By:	Date:	Revisions:		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: ELEVATION, GLAZING & NOTES (EQUAL LEG)			
Revsd By:	Date:	Revisions:				Title: MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)			
Revsd By: F.K.	Date: 4/12/07	Revisions: A	UPDATE NOTES AND REVISE ANCHORAGE			Series/Model: PW-820 Scale: NTS Sheet: 1 of 6 Drawing No. 4246-5 Rev: A			
Drawn By: F.K.	Date: 4/17/03	Checked By:	Date:						

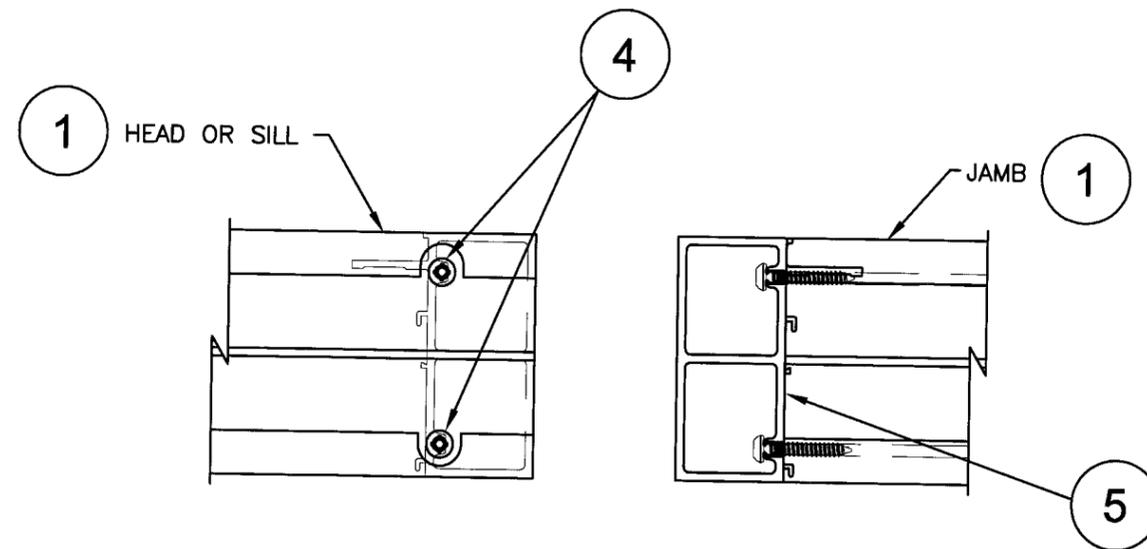
Robert L. Clark, P.E.
 PE #39712
 Structural



HORIZONTAL SECTION



VERTICAL SECTION



CORNER CONSTRUCTION DETAIL

PRODUCT REVISIONS
 25 2007, 07/24/07
 07-0424.07
 07/24/09
 M. Clark
 Division

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

Revsd By:	Date:	Revisions:		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	PGT Visibly Better	Description: SECTIONS & CORNER ASSEMBLY (EQUAL LEG)				
Revsd By:	Date:	Revisions:				Title: MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)				
Revsd By: F.K.	Date: 4/12/07	Revisions: A	NO CHANGE THIS SHEET			Series/Model: PW-820	Scale: NTS	Sheet: 2 of 6	Drawing No. 4246-5	Rev: A
Drawn By: F.K.	Date: 4/17/03	Checked By:	Date:							

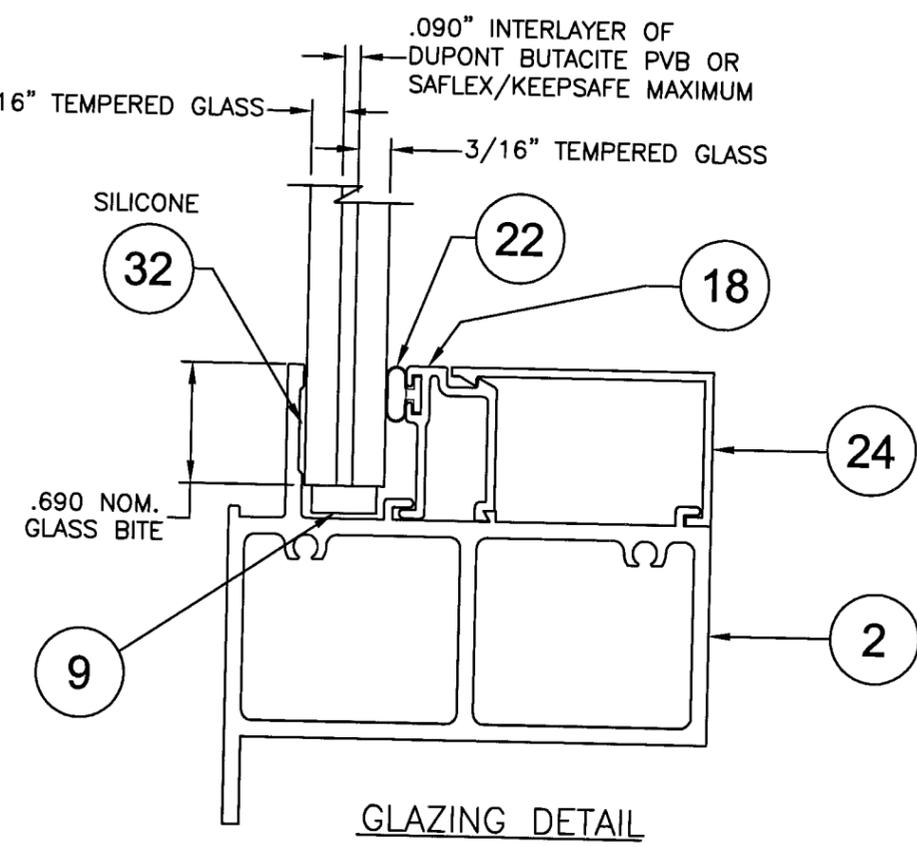
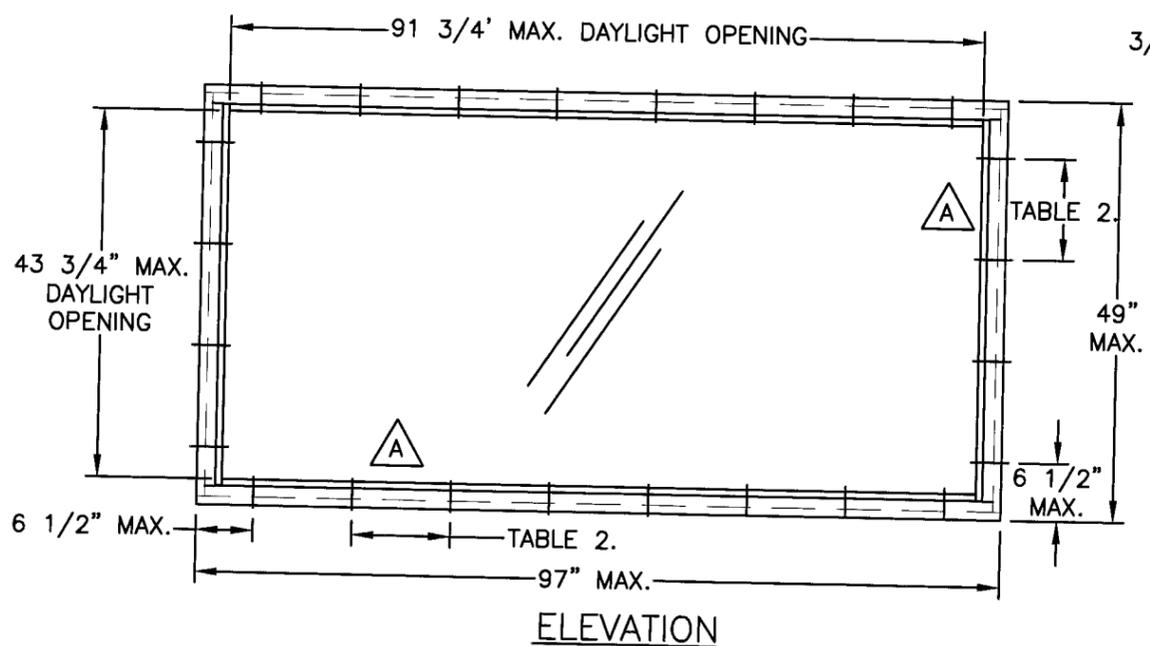
SMALL MISSILE IMPACT FLANGED PICTURE WINDOW

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 REVISED

07-0424.07

07/24/08

M. Thacker

Robert L. Clark

4/20/07

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

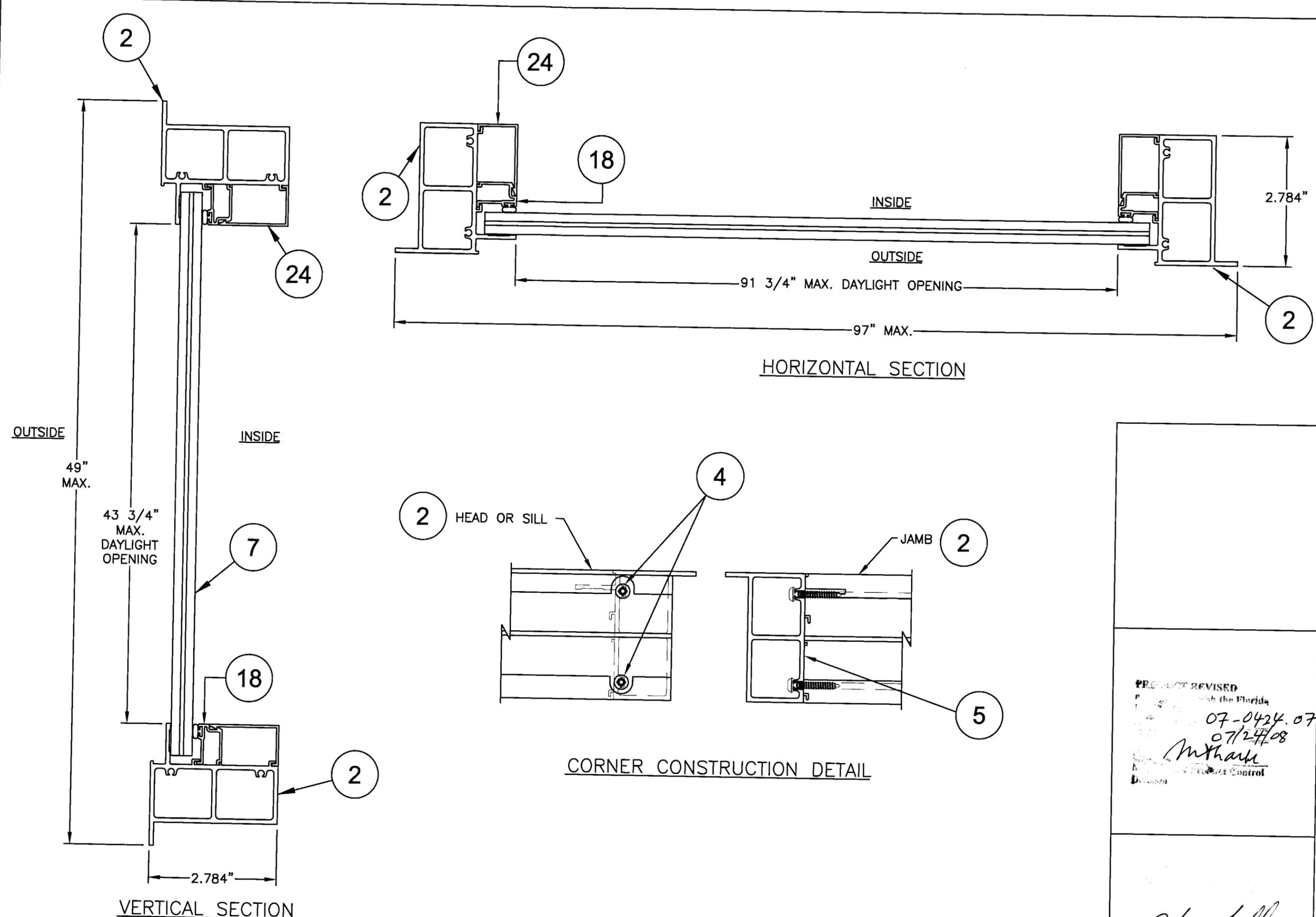
Revsd By:	Date:	Revisions:
F.K.	4/12/07	A UPDATE NOTES AND REVISE ANCHORAGE
F.K.	4/17/03	

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



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

NO CHANGE THIS SHEET

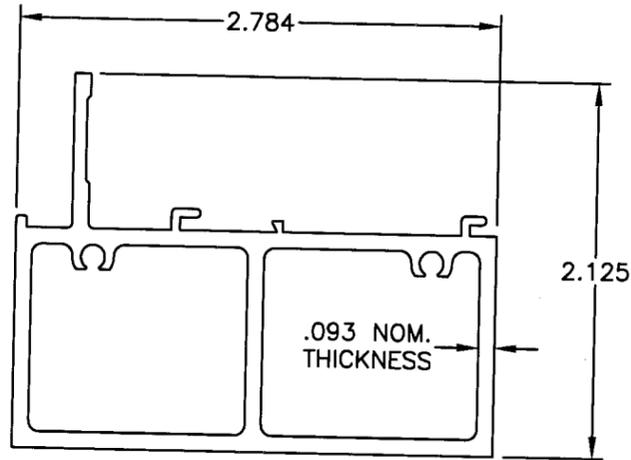
1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1529
 NOKOMIS, FL 34274



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

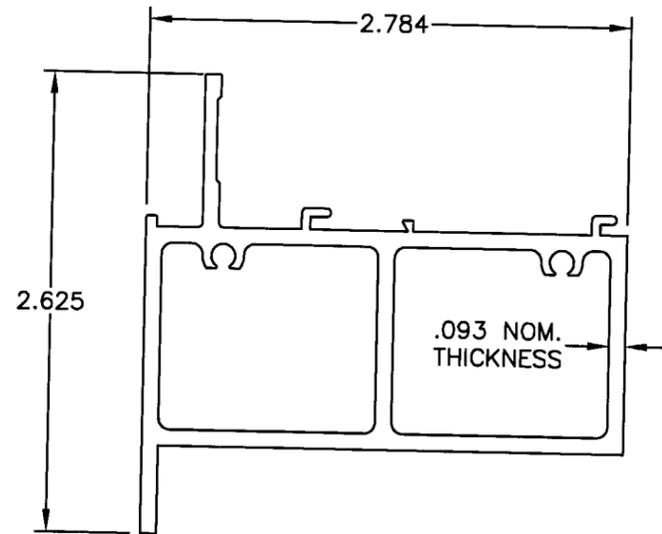
PROJECT REVISED
 07-0424.07
 07/27/08
M. Thane
 Structural Control

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



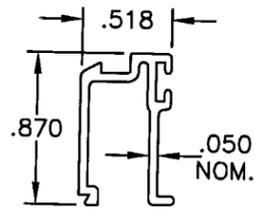
INSIDE MOUNT EQUAL

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



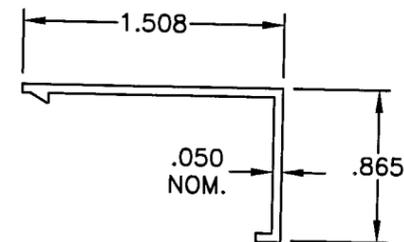
INSIDE MOUNT FLANGED

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



7/16 GLAZING BEAD

18 MAT'L: 6063-T5
 DWG #4251



TRIM COVER

24 MAT'L: 6063-T5
 DWG #4247

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

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

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

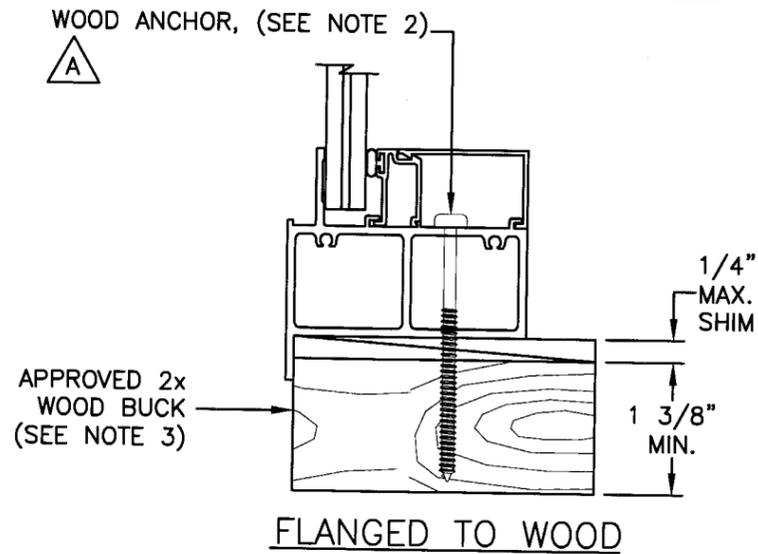
Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
Revsd By: F.K.	Date: 4/12/07	Revisions: A
Drawn By: F.K.	Date: 4/17/03	Checked By: Date:

NO CHANGE THIS SHEET

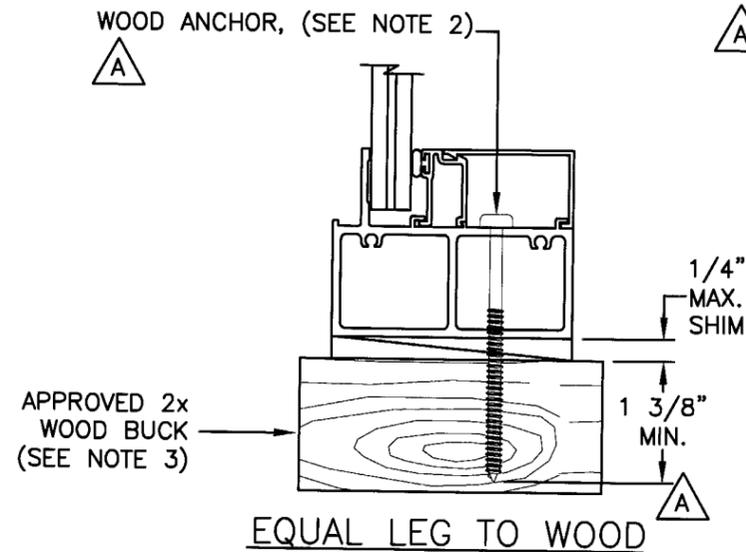
1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1529
 NOKOMIS, FL 34274



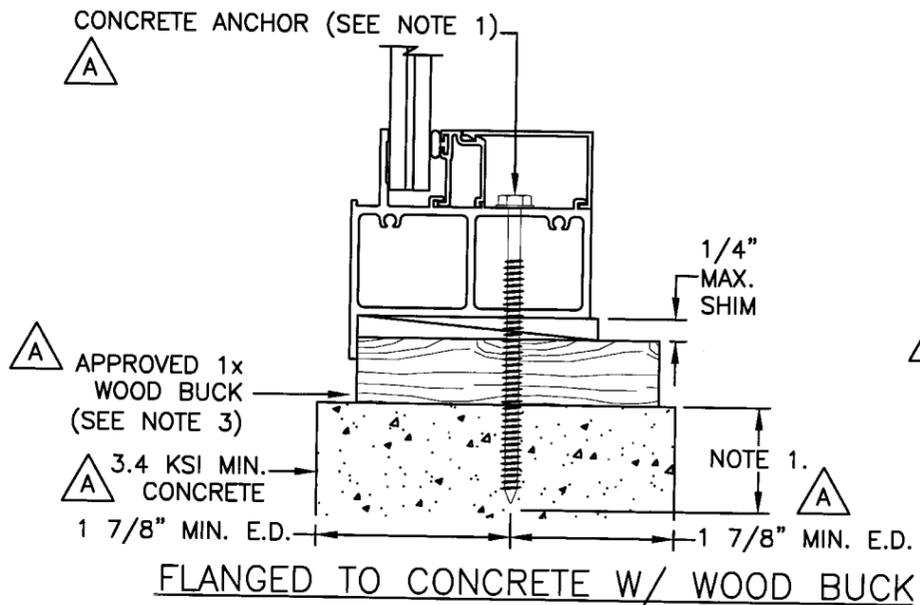
Description: EXTRUSIONS & PARTS LIST			
Title: MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)			
Series/Model: PW-820	Scale: NTS	Sheet: 5 of 6	Drawing No. 4246-5
			Rev: A



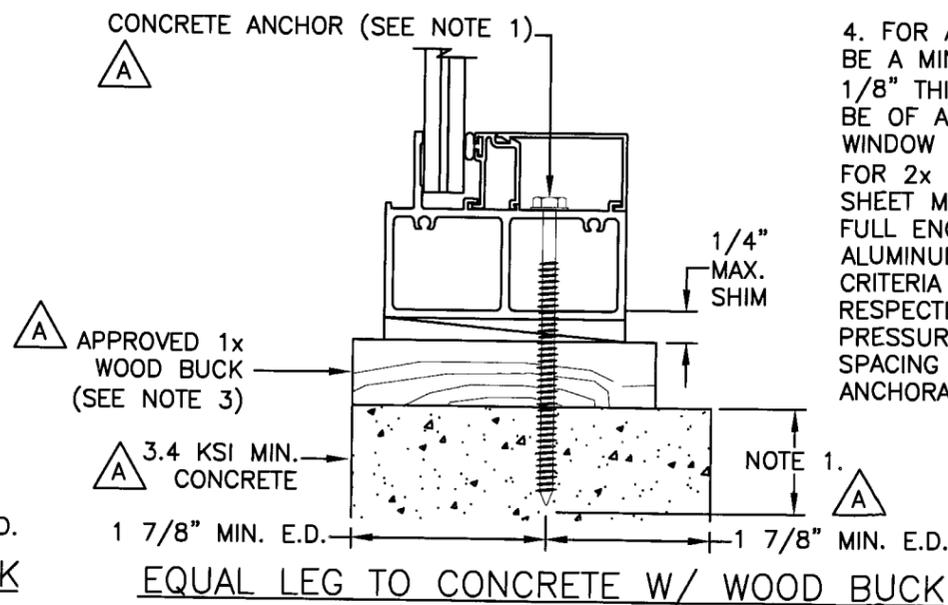
FLANGED TO WOOD



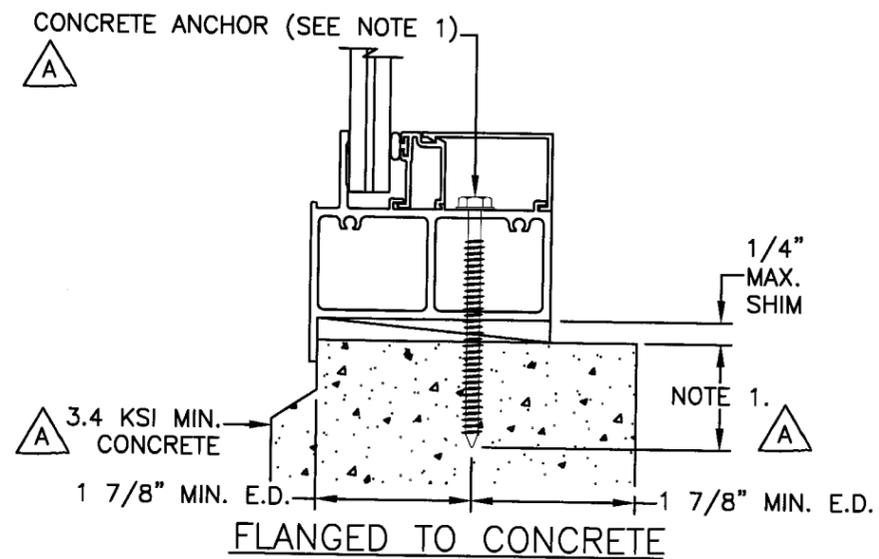
EQUAL LEG TO WOOD



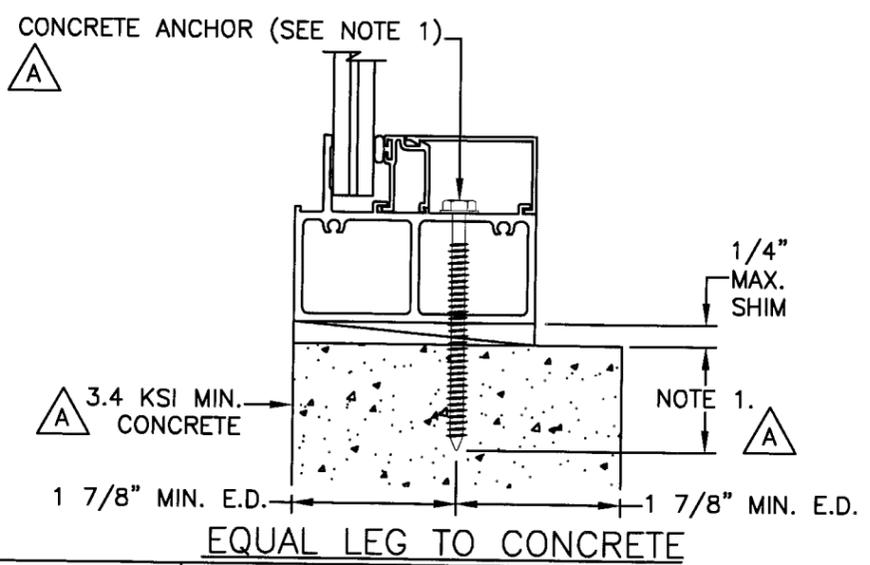
FLANGED TO CONCRETE W/ WOOD BUCK



EQUAL LEG TO CONCRETE W/ WOOD BUCK



FLANGED TO CONCRETE



EQUAL LEG TO CONCRETE

- 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 REVISION
 07-0424.07
 07/24/08
M. Clark
 Division

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

Revsd By:	Date:	Revisions:
Revsd By:	Date:	Revisions:
F.K.	4/12/07	A UPDATE ANCHORAGE DETAILS AND NOTES
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: ANCHORAGE	
Title: MID-RISE ALUM. PICTURE WINDOW (SM. MISSILE)	
Series/Model: PW-820	Scale: NTS
Sheet: 6 of 6	Drawing No. 4246-5
Rev: A	