



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
www.miamidade.gov/buildingcode

**BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION
 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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 820 Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **4246-6** titled “Mid-Rise Alum. Picture Window (Lg.Missile)”, sheets 1 through 6 of 6, prepared by manufacturer, dated 4/16/03 with revision A dated 04/13/07, 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: 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.

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 #07-0424.06** 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. 08-0429.08
 Expiration Date: July 24, 2013
 Approval Date: June 26, 2008
 Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

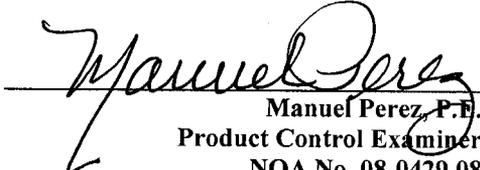
1. Manufacturer's die drawings and sections.
2. Drawing No. **4246-6** titled "Mid-Rise Alum. Picture Window (Lg.Missile)", Sheets 1 through 6 of 6, dated 4/16/03, with revision A dated 4/13/07, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
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# 03-0508.03)
2. 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# 03-0508.03)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) 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-3537** dated 08/09/02, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.03)
4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) 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-3539** dated 08/09/02, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.03)

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0429.08
Expiration Date: July 24, 2013
Approval Date: June 26, 2008

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. **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 IIIG 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.
3. Laboratory compliance letter for Test Report No. **FTL-3767**, issued by Fenestration Testing Laboratory, Inc., dated April 28th, 2003, signed and sealed by Joseph Chan, P.E.
4. Laboratory compliance letter for Test Report No. **FTL-3765**, issued by Fenestration Testing Laboratory, Inc., dated April 28th, 2003, signed and sealed by Joseph Chan, P.E.
5. Laboratory compliance letter for Test Report No. **FTL-3537**, issued by Fenestration Testing Laboratory, Inc., dated August 26th, 2002, signed and sealed by Joseph Chan, P.E.
6. Laboratory compliance letter for Test Report No. **FTL-3539**, issued by Fenestration Testing Laboratory, Inc., dated August 26th, 2002, signed and sealed by Joseph Chan, P.E.

G. OTHER

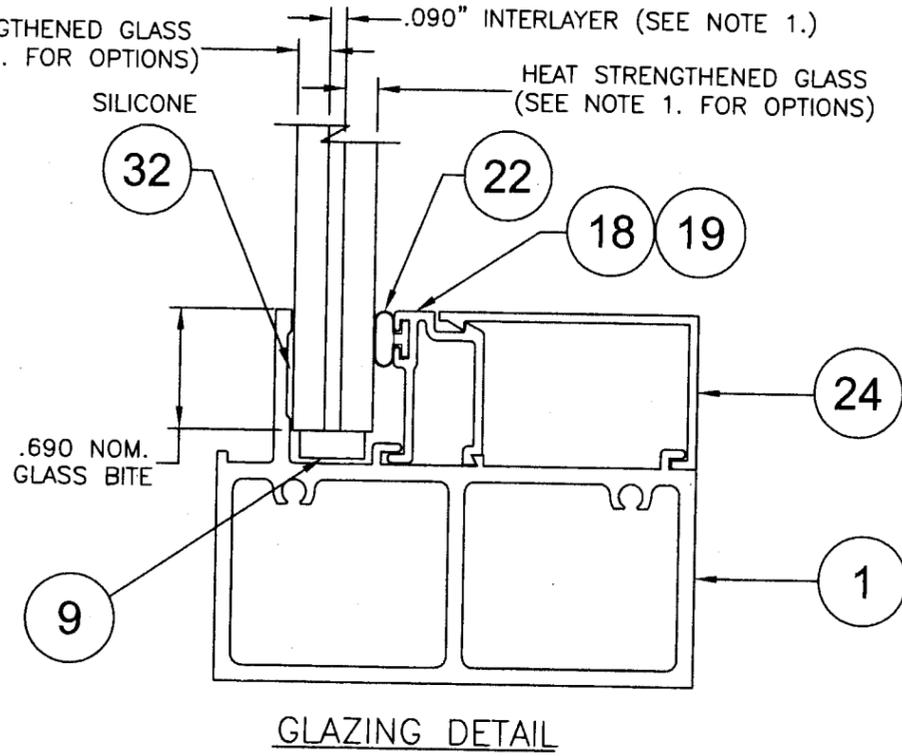
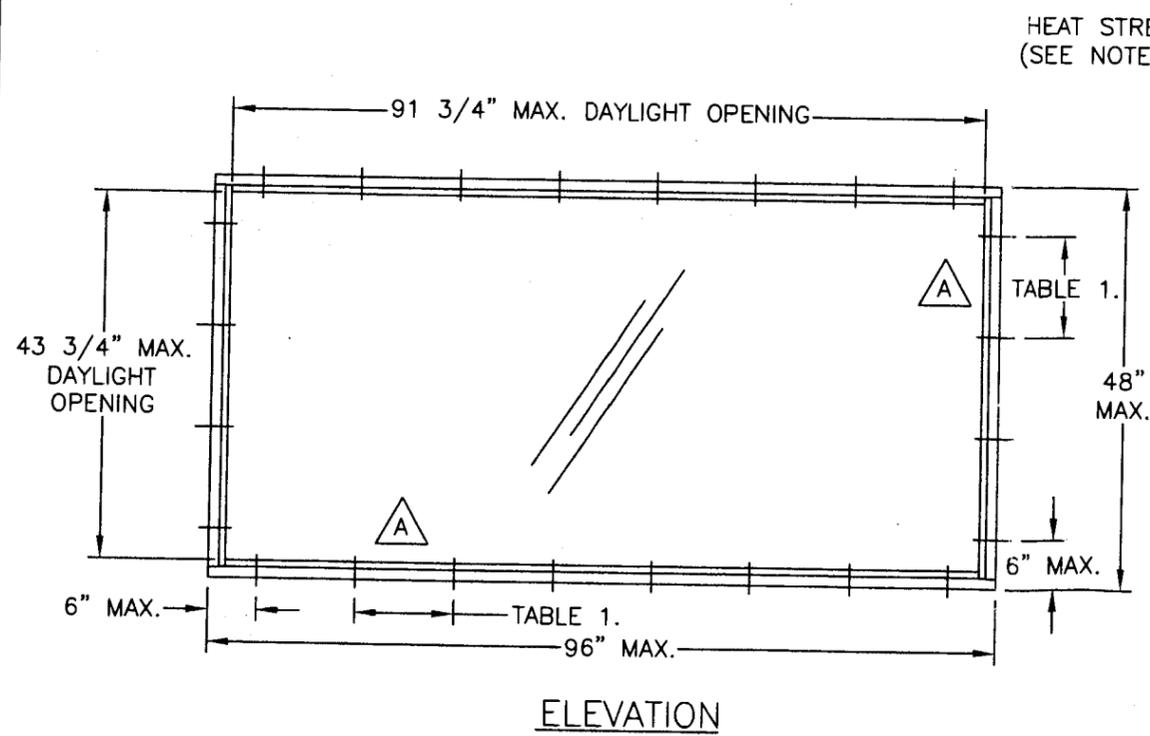
1. Notice of Acceptance No. **07-0424.06**, issued to PTG Industries, Inc. for their Series "820" Aluminum Picture Window – Large Missile, approved on 06/21/07 and expiring on 07/24/08.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0429.08
Expiration Date: July 24, 2013
Approval Date: June 26, 2008

LARGE MISSILE IMPACT EQUAL LEG PICTURE WINDOW

1. GLAZING OPTIONS: A. 9/16" LAMINATED GLASS CONSISTING OF (2) LITES OF 1/4" HEAT STRENGTHENED GLASS WITH A .090 INTERLAYER OF DUPONT SENTRY GLASS PLUS (SGP).
 B. 7/16" LAMINATED GLASS CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED 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: SHUTTERS ARE NOT REQUIRED.
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-3537, FTL-3539, 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).

TABLE 1. DESIGN PRESSURE		+90.0	-110.0
GLASS TYPES: A. 9/16" LAMI (1/4"H,SGP,1/4"H) B. 7/16" LAMI (3/16"H,PVB,3/16"H)			
ANCHOR MAX ON-CENTER DIMENSION			
SUBSTRATE:	WOOD	CONCRETE	
ANCHOR TYPE:	1	3	2 3
O.C. DIM.	10 1/2 "	12"	12" 12"

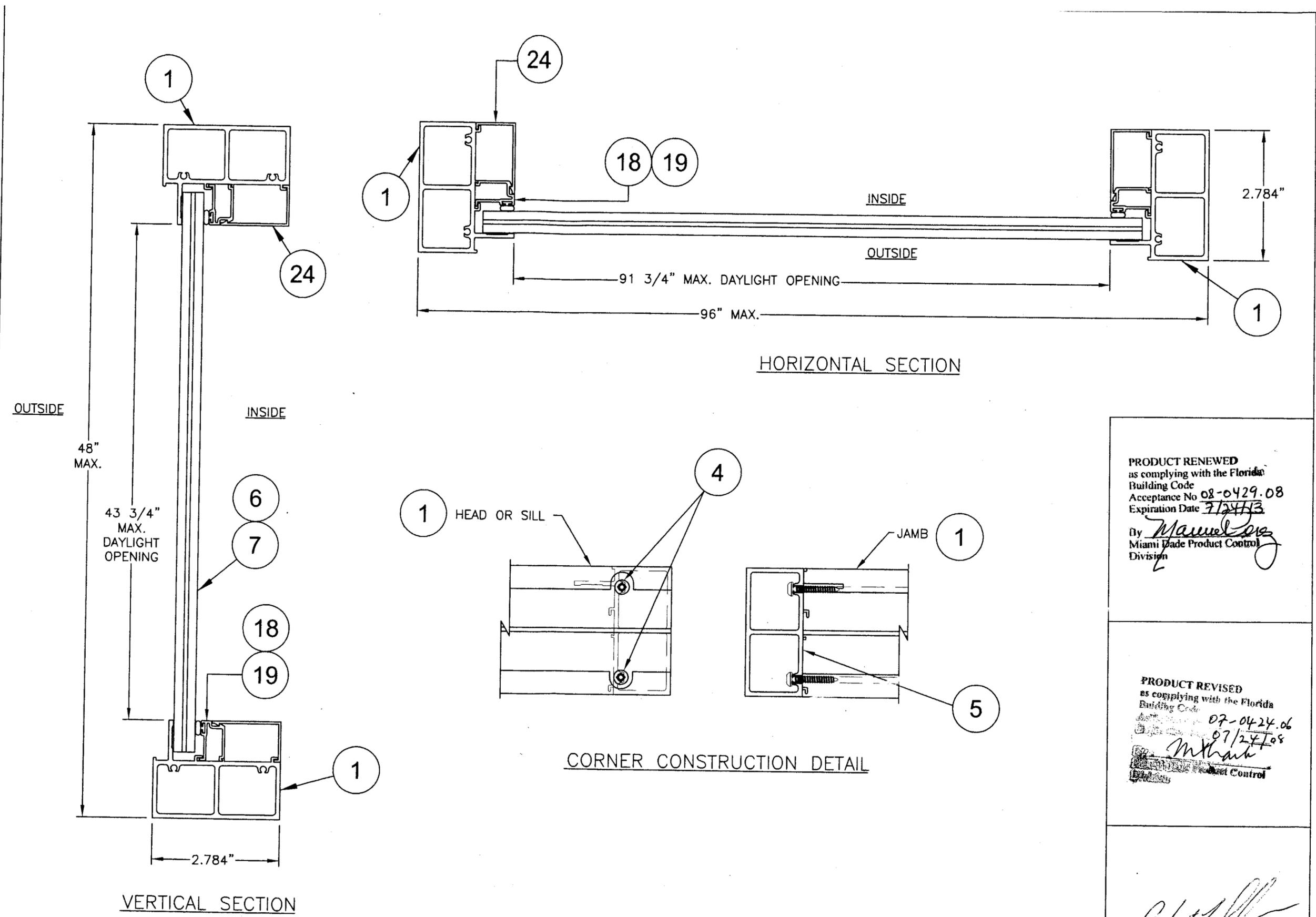


PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0429.08
 Expiration Date 7/24/13
 By *Manuel Lopez*
 Miami Dade Product Control
 Division

07-0424.06
 07/24/08
M. Clark

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: ELEVATION, GLAZING & NOTES (EQUAL LEG)				
Revsd By:	Date:	Revisions:			Title: MID-RISE ALUM. PICTURE WINDOW (LG. MISSILE)				
Revsd By:	Date:	Revisions:			Series/Model: PW-820	Scale: NTS	Sheet: 1 of 6	Drawing No. 4246-6	Rev: A
Drawn By:	Date:	Checked By:							
F.K.	4/13/07	A	UPDATE NOTES AND REVISE ANCHORAGE						
F.K.	4/16/03								



PRODUCT RENEWED
as complying with the Florida
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Acceptance No 08-0429.08
Expiration Date 7/24/13
By *Manuel*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
07-0424.06
07/24/08
M. Clark
Miami Dade Product Control
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 (LG. MISSILE)				
Revsd By: F.K.	Date: 4/13/07	Revisions: A	NO CHANGE THIS SHEET			Series/Model: PW-820	Scale: NTS	Sheet: 2 of 6	Drawing No. 4246-6	Rev. A
Drawn By: F.K.	Date: 4/16/03	Checked By:	Date:							

LARGE MISSILE IMPACT FLANGED PICTURE WINDOW

- GLAZING OPTIONS:**
 - 9/16" LAMINATED GLASS CONSISTING OF (2) LITES OF 1/4" HEAT STRENGTHENED GLASS WITH A .090 INTERLAYER OF DUPONT SENTRY GLASS PLUS (SGP).
 - 7/16" LAMINATED GLASS CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH A .090 PVB INTERLAYER OF DUPONT BUTACITE PVB OR SAFLEX/KEEPSAFE MAXIMUM.

2. **DESIGN PRESSURE RATING:** SEE TABLE 2

- 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 1/2" MAX. FROM CORNERS AND MAX. O.C. SPACING FROM TABLE 2. SEE SHEET 6 FOR ADDITIONAL ANCHORAGE INFORMATION.

- SHUTTER REQUIREMENT:** SHUTTERS ARE NOT REQUIRED.

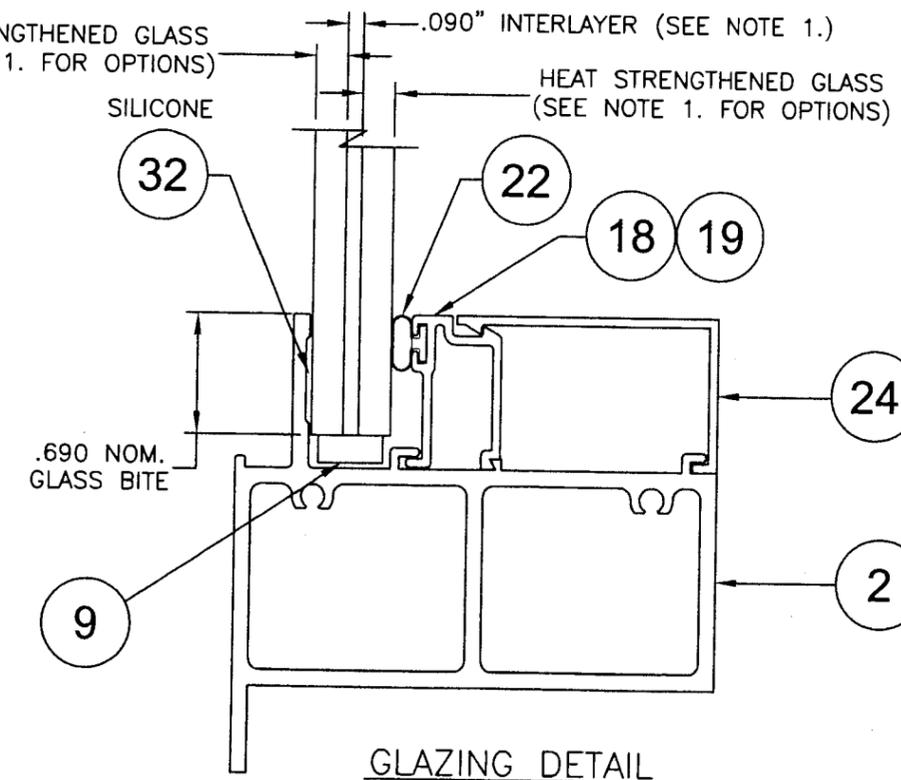
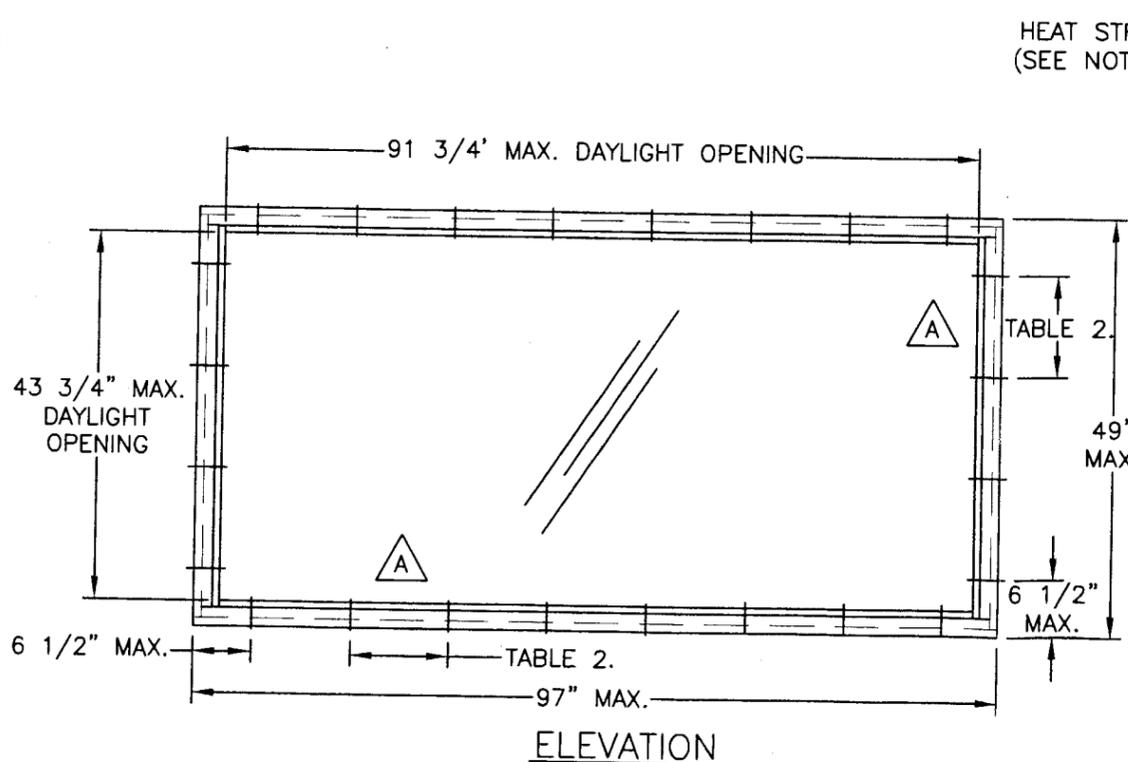
- NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME AND ON THE OUTSIDE OF FRAME TO SEAL EXPOSED SCREWS.

- MAXIMUM WINDOW AREA NOT TO EXCEED 33 SQ. FT. (DLO = 27.88 SQ. FT.) AND TIP-TO-TIP DIMENSIONS OF 49" BY 97".

- REFERENCES:** TEST REPORTS, FTL-3537, FTL-3539 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 2. DESIGN PRESSURE		+90.0	-110.0
GLASS TYPES: A. 9/16" LAMI (1/4"H,SGP,1/4"H)			
B. 7/16" LAMI (3/16"H,PVB,3/16"H)			
SUBSTRATE:		ANCHOR MAX ON-CENTER DIMENSION	
		WOOD	CONCRETE
ANCHOR TYPE:		1	3
O.C. DIM.		10 1/2 "	12"



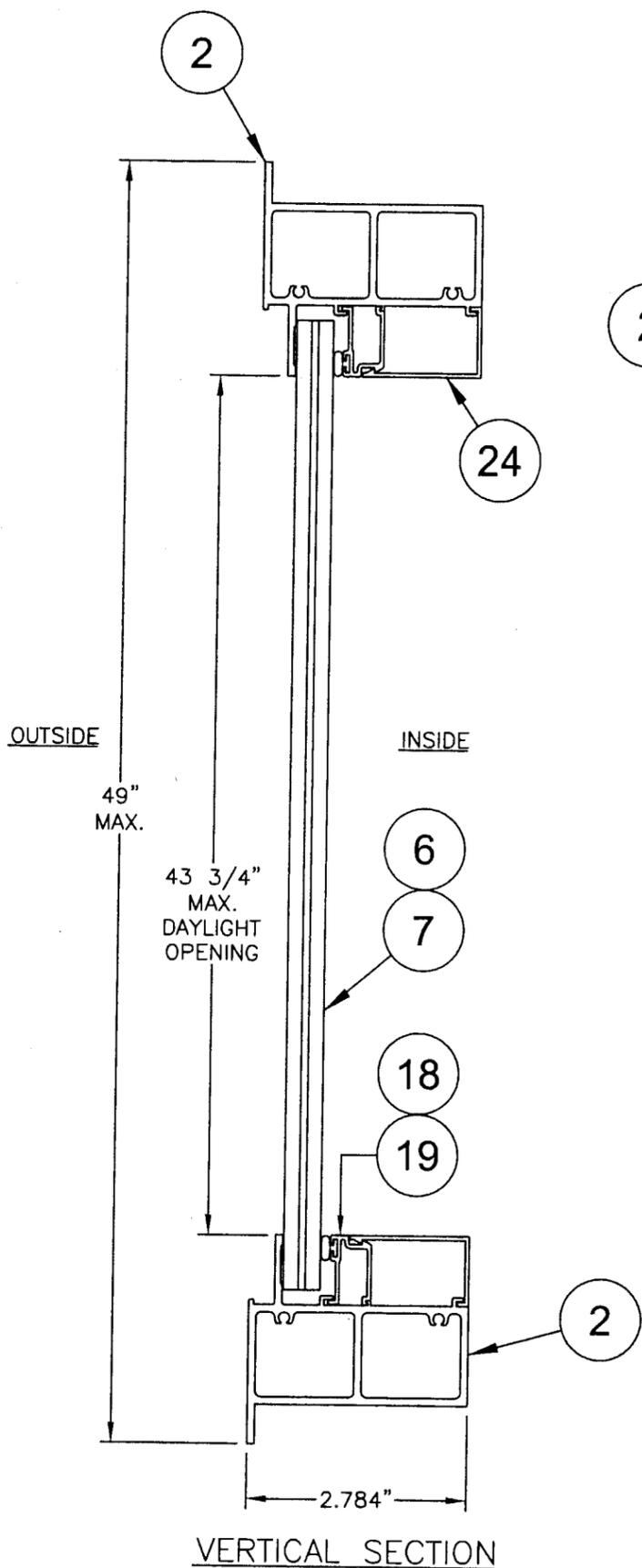
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0429.08
Expiration Date 7/24/13

By
Miami Dade Product Control
Division

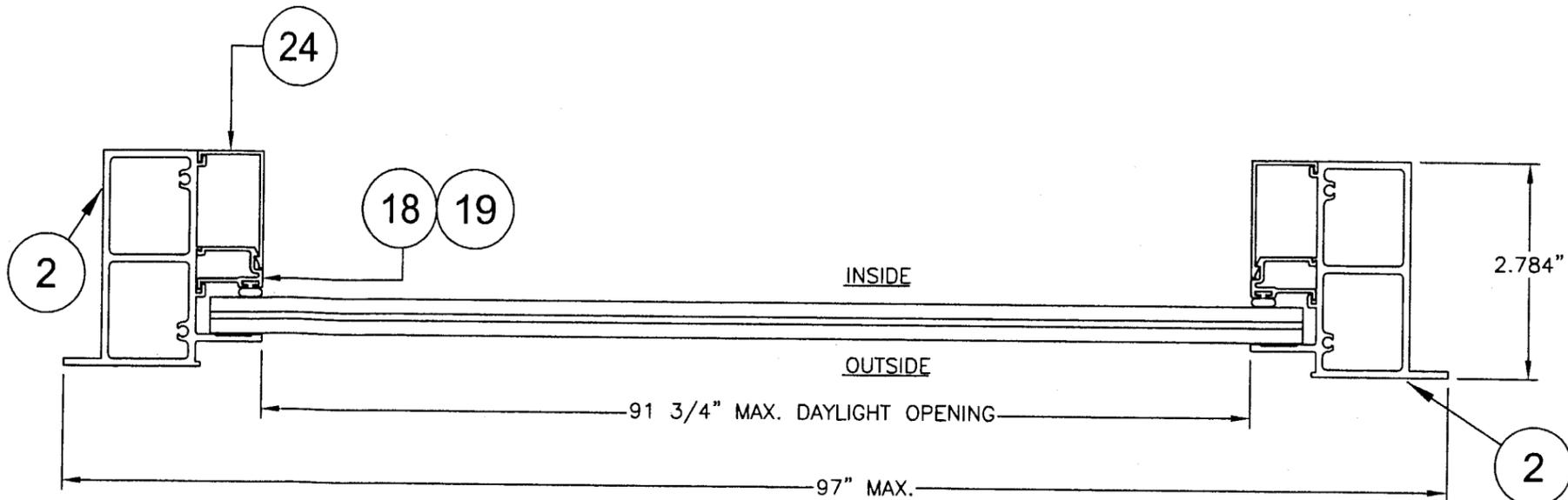
PRODUCT REVISED
as complying with the Florida
Building Code
07-0424.06
07-24-08
mthor

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

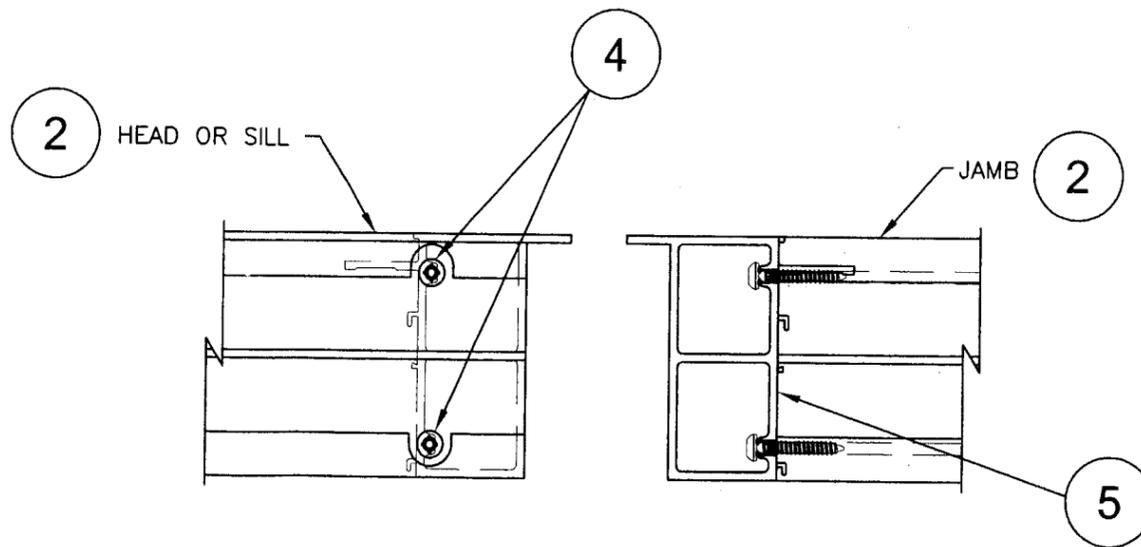
Revsd By:	Date:	Revisions:	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	PGT Visibly Better	Description: ELEVATION, GLAZING & NOTES (FLANGED)				
Revsd By:	Date:	Revisions:			Title: MID-RISE ALUM. PICTURE WINDOW (LG. MISSILE)				
Revsd By:	Date:	Revisions:			Series/Model:	Scale:	Sheet:	Drawing No.	Rev.
Drawn By:	Date:	Checked By:			PW-820	NTS	3 of 6	4246-6	A



VERTICAL SECTION



HORIZONTAL SECTION



CORNER CONSTRUCTION DETAIL

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0429.08
 Expiration Date 7/24/13
 By *Manuel Pen*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0424.06
 Expiration Date 07/24/08
 By *M. Chase*
 Miami Dade Product Control
 Division

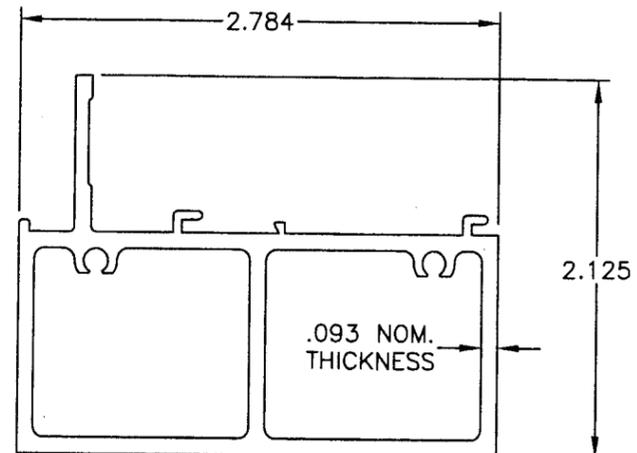
Robert L. Clark
 4/20/09
 Robert L. Clark, P.E.
 PE #39712
 Structural

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
F.K.	4/13/07	A	NO CHANGE THIS SHEET
Drawn By:	Date:	Checked By:	Date:
F.K.	4/16/03		

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

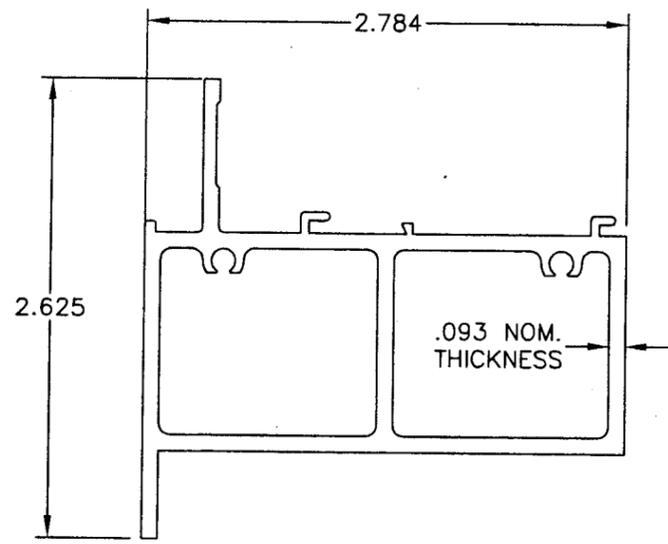


Description:			
SECTIONS & CORNER ASSEMBLY (FLANGED)			
Title:			
MID-RISE ALUM. PICTURE WINDOW (LG. MISSILE)			
Series/Model:	Scale:	Sheet:	Drawing No.
PW-820	NTS	4 of 6	4246-6
			Rev:
			A



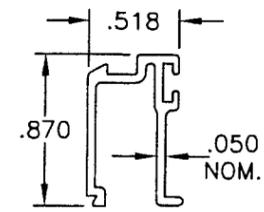
INSIDE MOUNT EQUAL

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



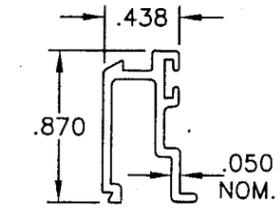
INSIDE MOUNT FLANGED

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



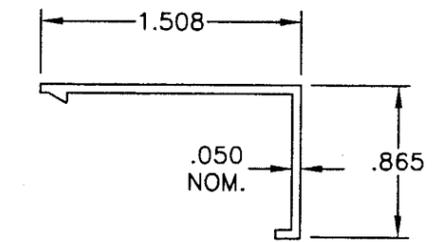
7/16 GLAZING BEAD

18 MAT'L: 6063-T5
 DWG #4251



9/16 GLAZING BEAD

19 MAT'L: 6063-T5
 DWG #4252



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
6		9/16 LAMINATED	GLASS - 1/4" HEAT STRENGTHENED
		INTERLAYER:	DUPONT SENTRY GLASS PLUS
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
19	4252	64252	9/16 GLAZING BEAD
22	1224	6TP247	VINYL BULB WEATHERSTRIP (THICK)
24	4247	64247	TRIM COVER
32			SILICONE DOW CORNING 899, 995 OR EQUIVALENT

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 as complying with the Florida
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 Acceptance No 08-0429.08
 Expiration Date 7/24/13
 By *Manuel Diaz*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 07-0424.06
 Expiration Date 07-17-09
 By *M. Clark*
 Miami Dade Product Control
 Division

Robert L. Clark
 4/16/07
 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: EXTRUSIONS & PARTS LIST				
Revsd By:	Date:	Revisions:				Title: MID-RISE ALUM. PICTURE WINDOW (LG. MISSILE)				
Revsd By: F.K.	Date: 4/13/07	Revisions: A	NO CHANGE THIS SHEET			Series/Model: PW-820	Scale: NTS	Sheet: 5 of 6	Drawing No. 4246-6	Rev. A
Drawn By: F.K.	Date: 4/16/03	Checked By:	Date:							

