



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 PW 820 Aluminum Fixed Window - N.I.

APPROVAL DOCUMENT: Drawing No. 4246-7, titled "Mid-Rise Alum. Picture Window (Non-Impact)", sheets 1 through 8 of 8, dated 04/15/03 with revision A dated 04/10/07, prepared by manufacturer, 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: None

LIMITATION: Miami-Dade County Approved Impact Resistant Shutters Are Required.

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 # 07-0424.08 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. 08-0429.10
 Expiration Date: July 31, 2013
 Approval Date: June 19, 2008
 Page 1

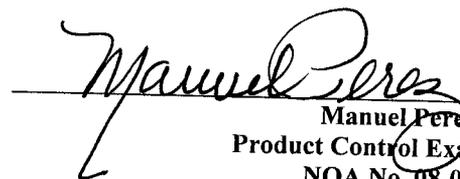
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **4246-7**, titled "Mid-Rise Alum. Picture Window (Non-Impact)", sheets 1 through 8 of 8, dated 04/15/03 with revision A dated 04/10/07, 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 with ¼" temp. glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 3766**, dated 04/01/03, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.02)
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
along with marked-up drawings and installation diagram of an aluminum picture window with 3/8" temp. glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 3764**, dated 04/01/03, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.02)
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
along with marked-up drawings and installation diagram of an aluminum picture window with 3/8" temp. glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 3536**, dated 08/09/02, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.02)
4. 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 with ¼" temp. glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 3535**, dated 08/09/02, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.02)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0429.10
Expiration Date: July 31, 2013
Approval Date: June 12, 2008

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continued)

5. 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 with 3/16" temp. glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 3534**, dated 08/09/02, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, dated 04/12/07 complying with FBC-2004, prepared, signed and sealed by Robert L. Clark, P.E.
Complies with ASTM E1300-02
(Submitted under NOA# 07-0424.08)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None

F. STATEMENTS

1. Statement letter of conformance to Florida Building Code 2004, 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 Fenestration Testing Laboratory, Inc., Test Reports No. **FTL 3766** and **FTL 3764**, dated 4/28/03, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.02)
4. Laboratory compliance letter for Fenestration Testing Laboratory, Inc., Test Reports No. **FTL 3536**, **FTL 3535** and **FTL 3534**, dated 8/26/02, signed and sealed by Joseph Chan, P.E.
(Submitted under NOA# 03-0508.02)

G. OTHER

1. Notice of Acceptance No. **07-0424.08**, issued to PGT Industries for their "Series PW 820 Aluminum Picture Window – Non-Impact", approved on 06/21/07 and expiring on 07/31/08.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0429.10
Expiration Date: July 31, 2013
Approval Date: June 12, 2008

NON-IMPACT EQUAL LEG PICTURE WINDOW

1. **GLAZING OPTIONS:** A) 3/16" TEMPERED GLASS B) 1/4" TEMPERED GLASS C) 3/8" TEMPERED GLASS
2. **DESIGN PRESSURE RATING:** SEE TABLES 1 THROUGH 3, SHEET 2
 - A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLE ASTM E 1300-02.
 - A** 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.

A

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

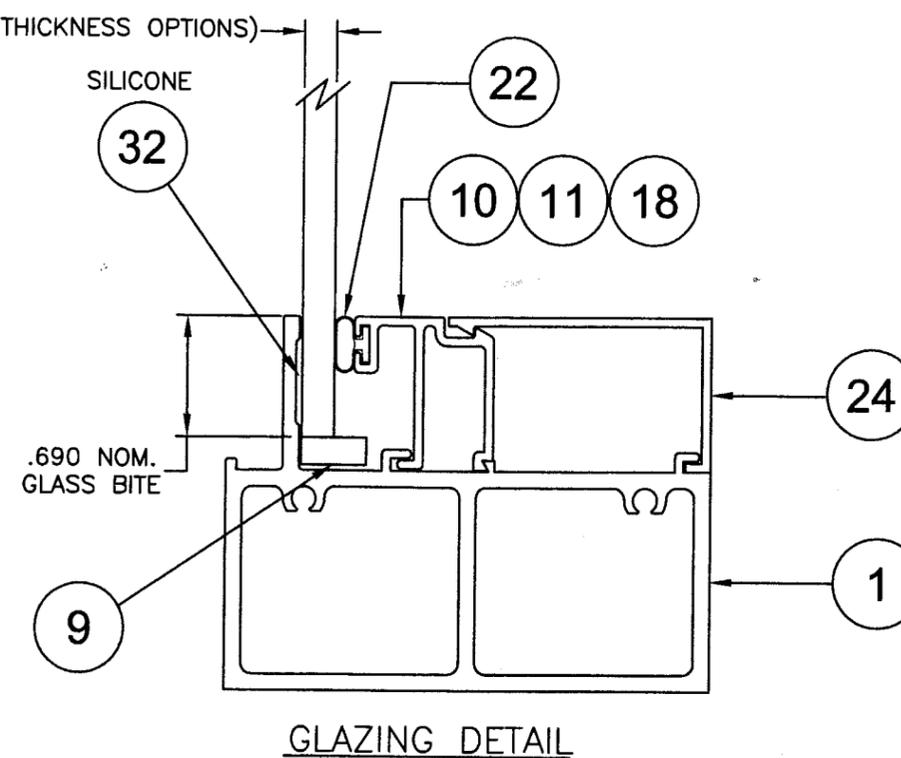
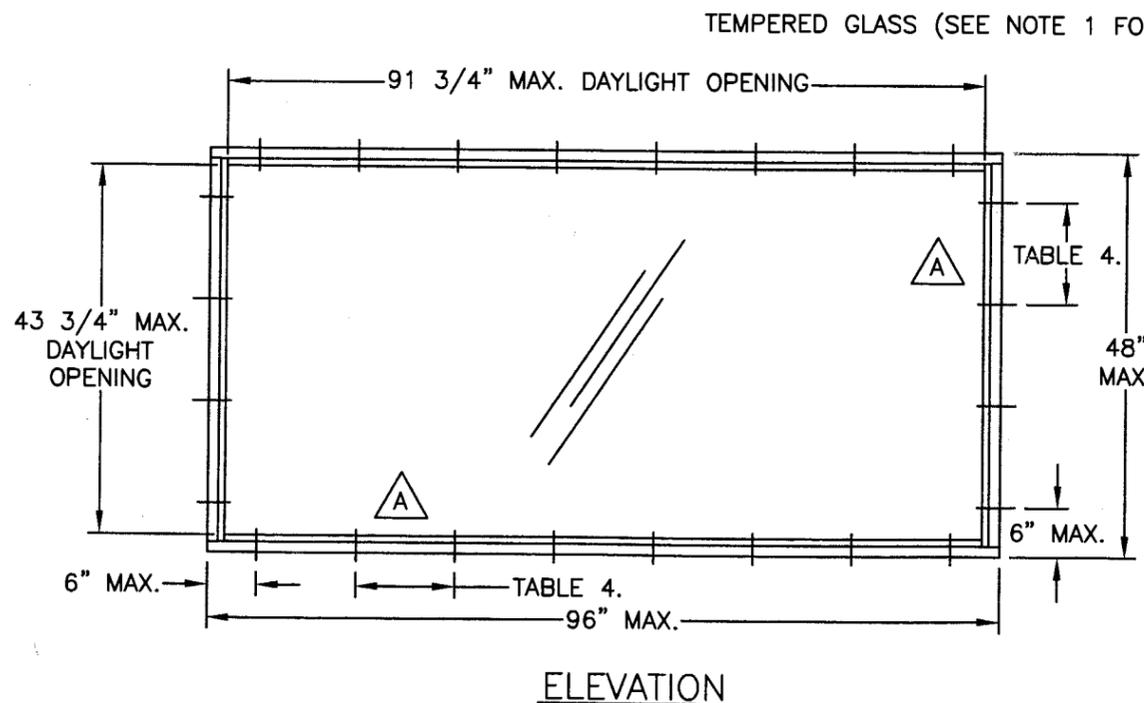
6" MAX. FROM CORNERS AND MAX. O.C. SPACING FROM TABLE 4. SEE SHEET 8 FOR ADDITIONAL ANCHORAGE INFORMATION,
4. **SHUTTER REQUIREMENT:** MIAMI-DADE COUNTY APPROVED SHUTTERS ARE REQUIRED IN MIAMI-DADE AND WHERE IMPACT RESISTANCE IS REQ'D.
5. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME 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". **A**
7. **REFERENCES:** TEST REPORTS, FTL-3534, FTL-3535, FTL-3536 & FTL-3764
 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**

NOA DRAWING
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TABLE 4. ANCHOR MAX. ON-CENTER DIMENSION

| SUBSTRATE: | WOOD | | | CONCRETE | | |
|--------------|------|----|--------|----------|---------|-------|
| | A | B | C | A | B | C |
| GLASS TYPE: | 1 | 3 | 1 | 3 | 1 | 3 |
| ANCHOR TYPE: | 1 | 3 | 1 | 3 | 2 | 3 |
| O.C. DIM. | 12 | 12 | 10 1/2 | 12 | 7 11/16 | 9 3/8 |
| | 12 | 12 | 12 | 12 | 12 | 12 |



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0429.10
 Expiration Date JULY 31, 2013
 By *Manuel Perez*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0424.08
 Expiration Date 07/31/08
 By *M. Thack*
 Miami Dade Product Control
 Division

Robert L. Clark
 4/19/07
 Robert L. Clark, P.E.
 PE #39712
 Structural

| | | | | | |
|-----------|---------|-------------|-----------------------------------|--|--|
| Revsd By: | Date: | Revisions: | | | |
| Revsd By: | Date: | Revisions: | | | |
| Revsd By: | Date: | Revisions: | UPDATE NOTES AND REVISE ANCHORAGE | | |
| Drawn By: | Date: | Checked By: | Date: | | |
| F.K. | 4/10/07 | A | | | |
| F.K. | 4/15/03 | | | | |

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

Visibly Better

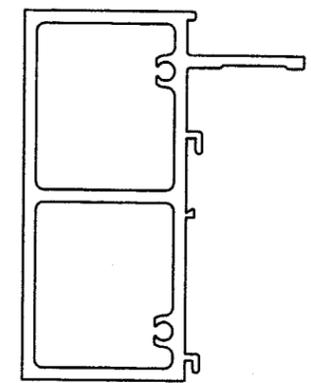
Description:
ELEVATION, GLAZING & NOTES (EQUAL LEG)

Title:
MID-RISE ALUM. PICTURE WINDOW (NON-IMPACT)

Series/Model: PW-820 Scale: NTS Sheet: 1 of 8 Drawing No. 4246-7 Rev: A

COMPARATIVE ANALYSIS TABLE 1. EQUAL LEG FRAME W/ 3/16" TEMPERED GLASS FTL-3534 & FTL-3764

| | | HEIGHT | | | | | | | | | | | | | | | | | |
|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|
| WIDTH | | 25.000 | | 29.000 | | 33.000 | | 37.375 | | 39.000 | | 42.000 | | 44.000 | | 46.000 | | 48.000 | |
| 52.125 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -169.3 | +132.0 | -132.0 | +121.2 | -121.2 | +104.5 | -104.5 | +95.2 | -95.2 | +87.1 | -87.1 | +80.0 | -80.0 |
| 59.000 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -169.3 | +132.0 | -132.0 | +121.2 | -121.2 | +104.5 | -104.5 | +95.2 | -95.2 | +87.1 | -87.1 | +80.0 | -80.0 |
| 73.000 | | +133.3 | -182.8 | +133.3 | -163.0 | +133.3 | -148.3 | +132.0 | -132.0 | +121.2 | -121.2 | +104.5 | -104.5 | +95.2 | -95.2 | +87.1 | -87.1 | +80.0 | -80.0 |
| 86.000 | | +133.3 | -150.5 | +133.3 | -133.3 | +120.5 | -120.5 | +109.9 | -109.9 | +106.6 | -106.6 | +101.3 | -101.3 | +95.2 | -95.2 | +87.1 | -87.1 | +80.0 | -80.0 |
| 88.000 | | +133.3 | -146.5 | +129.7 | -129.7 | +117.2 | -117.2 | +106.7 | -106.7 | +103.5 | -103.5 | +98.3 | -98.3 | +95.2 | -95.2 | +87.1 | -87.1 | +80.0 | -80.0 |
| 90.000 | | +133.3 | -142.7 | +126.3 | -126.3 | +114.0 | -114.0 | +103.7 | -103.7 | +100.6 | -100.6 | +95.4 | -95.4 | +92.4 | -92.4 | +87.1 | -87.1 | +80.0 | -80.0 |
| 92.000 | | +133.3 | -139.1 | +123.0 | -123.0 | +111.0 | -111.0 | +100.9 | -100.9 | +97.8 | -97.8 | +92.7 | -92.7 | +89.8 | -89.8 | +87.1 | -87.1 | +80.0 | -80.0 |
| 94.000 | | +133.3 | -135.7 | +119.9 | -119.9 | +108.1 | -108.1 | +98.2 | -98.2 | +95.2 | -95.2 | +90.2 | -90.2 | +87.3 | -87.3 | +84.7 | -84.7 | +80.0 | -80.0 |
| 96.000 | | +132.4 | -132.4 | +117.0 | -117.0 | +105.4 | -105.4 | +95.7 | -95.7 | +92.7 | -92.7 | +87.8 | -87.8 | +84.9 | -84.9 | +82.3 | -82.3 | +80.0 | -80.0 |



COMPARATIVE ANALYSIS TABLE 2. EQUAL LEG FRAME W/ 1/4" TEMPERED GLASS FTL-3535 & FTL-3764

| | | HEIGHT | | | | | | | | | | | | | | | | | |
|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WIDTH | | 25.000 | | 29.000 | | 33.000 | | 37.375 | | 39.000 | | 42.000 | | 44.000 | | 46.000 | | 48.000 | |
| 52.125 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -168.2 | +133.3 | -154.5 | +133.2 | -133.2 | +121.4 | -121.4 | +111.1 | -111.1 | +102.0 | -102.0 |
| 59.000 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -168.2 | +133.3 | -154.5 | +133.2 | -133.2 | +121.4 | -121.4 | +111.1 | -111.1 | +102.0 | -102.0 |
| 73.000 | | +133.3 | -210.0 | +133.3 | -207.8 | +133.3 | -189.1 | +133.3 | -168.2 | +133.3 | -154.5 | +133.2 | -133.2 | +121.4 | -121.4 | +111.1 | -111.1 | +102.0 | -102.0 |
| 86.000 | | +133.3 | -191.8 | +133.3 | -170.0 | +133.3 | -153.7 | +133.3 | -140.1 | +133.3 | -135.9 | +129.1 | -129.1 | +121.4 | -121.4 | +111.1 | -111.1 | +102.0 | -102.0 |
| 88.000 | | +133.3 | -186.8 | +133.3 | -165.4 | +133.3 | -149.4 | +133.3 | -136.1 | +132.0 | -132.0 | +125.3 | -125.3 | +121.4 | -121.4 | +111.1 | -111.1 | +102.0 | -102.0 |
| 90.000 | | +133.3 | -181.9 | +133.3 | -161.0 | +133.3 | -145.3 | +132.3 | -132.3 | +128.2 | -128.2 | +121.6 | -121.6 | +117.8 | -117.8 | +111.1 | -111.1 | +102.0 | -102.0 |
| 92.000 | | +133.3 | -177.4 | +133.3 | -156.8 | +133.3 | -141.5 | +128.7 | -128.7 | +124.7 | -124.7 | +118.2 | -118.2 | +114.5 | -114.5 | +111.1 | -111.1 | +102.0 | -102.0 |
| 94.000 | | +133.3 | -173.0 | +133.3 | -152.9 | +133.3 | -137.8 | +125.2 | -125.2 | +121.3 | -121.3 | +115.0 | -115.0 | +111.3 | -111.3 | +107.9 | -107.9 | +102.0 | -102.0 |
| 96.000 | | +133.3 | -168.9 | +133.3 | -149.1 | +133.3 | -134.4 | +122.0 | -122.0 | +118.2 | -118.2 | +111.9 | -111.9 | +108.3 | -108.3 | +105.0 | -105.0 | +102.0 | -102.0 |

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0429-10
Expiration Date JULY 31, 2013
By *Manuel Perez*
Miami Trade Product Control
Division

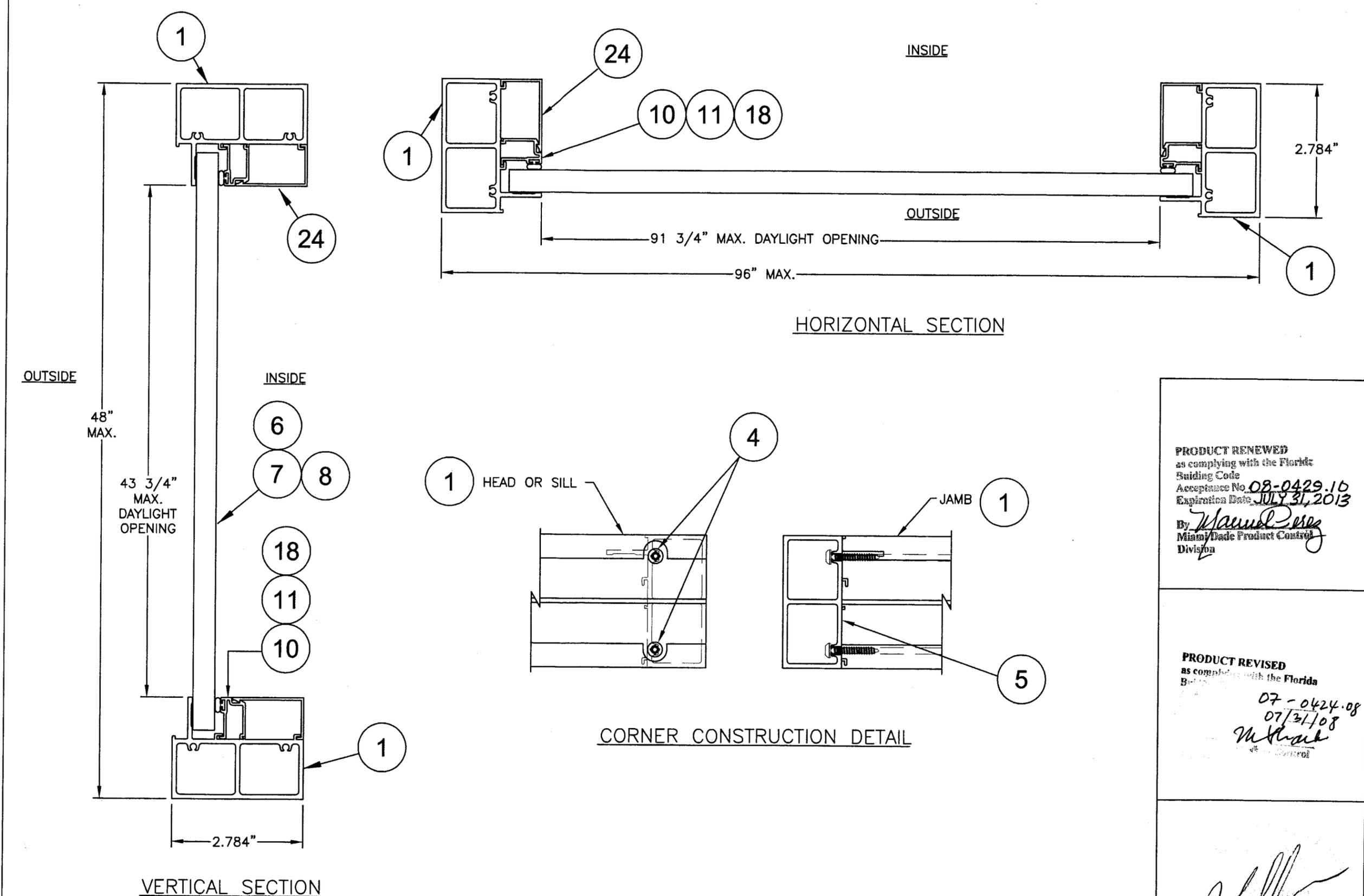
COMPARATIVE ANALYSIS TABLE 3. EQUAL LEG FRAME W/ 3/8" TEMPERED GLASS FTL-3536 & FTL-3764

| | | HEIGHT | | | | | | | | | | | | | | | | | |
|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WIDTH | | 25.000 | | 29.000 | | 33.000 | | 37.375 | | 39.000 | | 42.000 | | 44.000 | | 46.000 | | 48.000 | |
| 52.125 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -182.9 | +130.9 | -166.6 | +119.8 | -152.4 | +110.0 | -140.0 |
| 59.000 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -182.9 | +130.9 | -166.6 | +119.8 | -152.4 | +110.0 | -140.0 |
| 73.000 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -182.9 | +130.9 | -166.6 | +119.8 | -152.4 | +110.0 | -140.0 |
| 86.000 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -192.3 | +133.3 | -186.6 | +133.3 | -177.2 | +130.9 | -166.6 | +119.8 | -152.4 | +110.0 | -140.0 |
| 88.000 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -205.1 | +133.3 | -186.8 | +133.3 | -181.1 | +133.3 | -171.9 | +130.9 | -166.6 | +119.8 | -152.4 | +110.0 | -140.0 |
| 90.000 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -199.5 | +133.3 | -181.5 | +133.3 | -176.0 | +131.2 | -167.0 | +127.1 | -161.7 | +119.8 | -152.4 | +110.0 | -140.0 |
| 92.000 | | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -194.2 | +133.3 | -176.6 | +133.3 | -171.1 | +127.5 | -162.3 | +123.4 | -157.1 | +119.8 | -152.4 | +110.0 | -140.0 |
| 94.000 | | +133.3 | -210.0 | +133.3 | -209.9 | +133.3 | -189.2 | +133.3 | -171.9 | +130.8 | -166.5 | +124.0 | -157.8 | +120.0 | -152.7 | +116.4 | -148.1 | +110.0 | -140.0 |
| 96.000 | | +133.3 | -210.0 | +133.3 | -204.7 | +133.3 | -184.4 | +131.6 | -167.4 | +127.4 | -162.2 | +120.7 | -153.6 | +116.8 | -148.6 | +113.2 | -144.1 | +110.0 | -140.0 |

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0424-08
Expiration Date 07/31/08
By *M. Trade*
Miami Trade Product Control
Division

| | | | | | | | | | |
|-----------|---------|-------------|--|--|---|---------------|--------|---|-------------|
| Revsd By: | Date: | Revisions: | | 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 |  Visibly Better | Description: | | DESIGN PRESSURES, EQUAL LEG FRAME | |
| Revsd By: | Date: | Revisions: | | | | Title: | | MID-RISE ALUM. PICTURE WINDOW (NON-IMPACT) | |
| Revsd By: | Date: | Revisions: | | | | Series/Model: | Scale: | Sheet: | Drawing No. |
| Drawn By: | Date: | Checked By: | Date: | | | PW-820 | NTS | 2 of 8 | 4246-7 |
| F.K. | 4/10/07 | A | MOVE ANCHORAGE TO SHEET 1, REVISE TABLE FORMAT & UPDATE DESIGN PRESSURES PER ASTM E 1300-02. | | | | | | |
| F.K. | 4/15/03 | | | | | | | | |

R.L. Clark
4/19/07
Robert L. Clark, P.E.
PE #39712
Structural



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0429.10
 Expiration Date: JULY 31, 2013
 By: *Manuel Perez*
 Miami/Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0424.08
 Expiration Date: 07/31/08
 By: *M. Clark*
 Miami/Dade Product Control
 Division

| | | | | | | | | | | |
|-----------|---------|-------------|----------------------|--|------------------------------|--|--------|--------|-------------|------|
| Revsd By: | Date: | Revisions: | | 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 | PGI Visibly Better | Description: SECTIONS & CORNER ASSEMBLY (EQUAL LEG) | | | | |
| Revsd By: | Date: | Revisions: | | | | Title: MID-RISE ALUM. PICTURE WINDOW (NON-IMPACT) | | | | |
| Revsd By: | Date: | Revisions: | | | | Series/Model: | Scale: | Sheet: | Drawing No. | Rev. |
| Drawn By: | Date: | Checked By: | Date: | | | PW-820 | NTS | 3 of 8 | 4246-7 | A |
| F.K. | 4/10/07 | A | NO CHANGE THIS SHEET | P.O. BOX 1529 NOKOMIS, FL 34274 | | | | | | |
| F.K. | 4/15/03 | | | | | | | | | |

Robert L. Clark
 4/19/07
 Robert L. Clark, P.E.
 PE #39712
 Structural

NON-IMPACT FLANGED PICTURE WINDOW

1. GLAZING OPTIONS: A. 3/16" TEMPERED GLASS B. 1/4" TEMPERED GLASS C. 3/8" TEMPERED GLASS

2. DESIGN PRESSURE RATING: SEE TABLES 5 THROUGH 7, SHEET 5

A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLE ASTM E 1300-02.

A B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLE ASTM E 1300-02.

A 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 4. SEE SHEET 8 FOR ADDITIONAL ANCHORAGE INFORMATION,

4. SHUTTER REQUIREMENT: MIAMI-DADE COUNTY APPROVED SHUTTERS ARE REQUIRED IN MIAMI-DADE AND WHERE IMPACT RESISTANCE IS REQ'D.

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". **A**

7. REFERENCES: TEST REPORTS, FTL-3534, FTL-3535, FTL-3536, FTL-3764 & FTL-3766

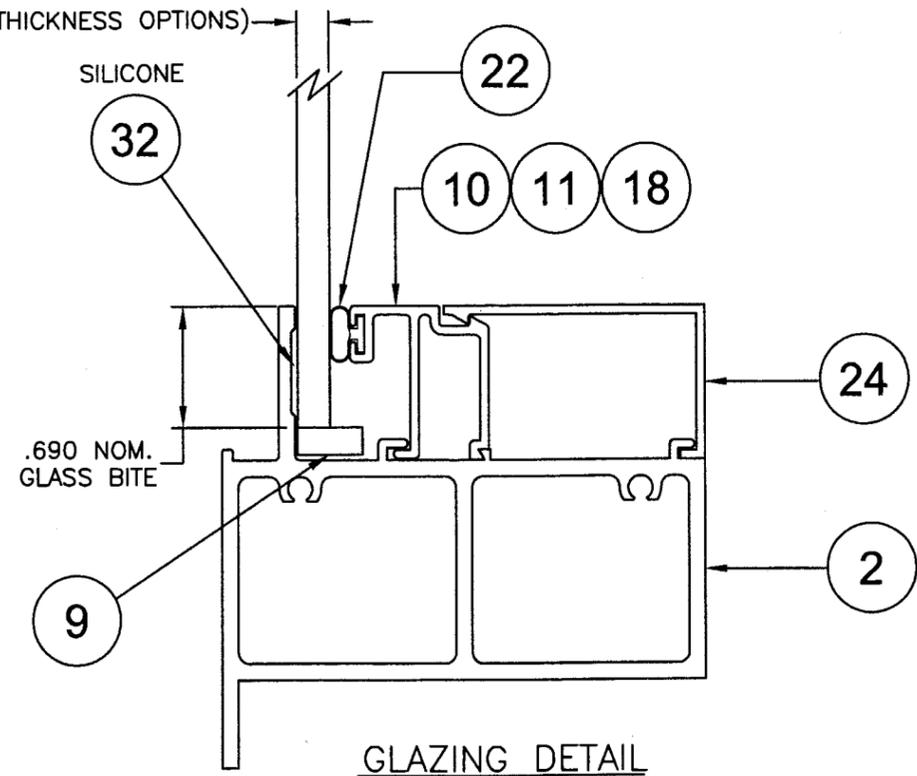
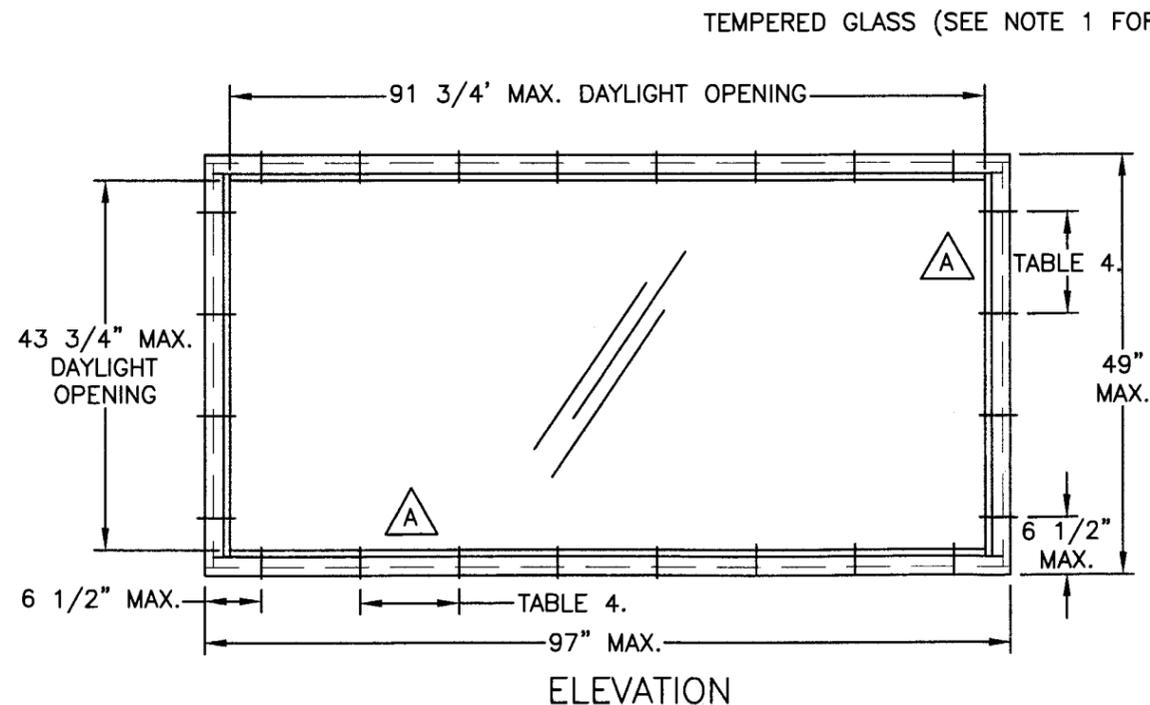
ELCO TEXTRON NOA: 04-0721.01, 03-0225.05
ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
ADM-2000 ALUMINUM DESIGN MANUAL

A 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

TABLE 4. ANCHOR MAX. ON-CENTER DIMENSION

| SUBSTRATE: | WOOD | | | CONCRETE | | |
|--------------|------|----|--------|----------|---------|-------|
| | A | B | C | A | B | C |
| GLASS TYPE: | 1 | 3 | 1 | 3 | 2 | 3 |
| ANCHOR TYPE: | 1 | 3 | 1 | 3 | 2 | 3 |
| O.C. DIM. | 12 | 12 | 10 1/2 | 12 | 7 11/16 | 9 3/8 |
| | 12 | 12 | 12 | 12 | 12 | 12 |



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0429.10
Expiration Date JULY 31, 2013
By Maurice Perez
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
07-0424.08
07/31/08
M. Clark

[Signature]
4/19/07
Robert L. Clark, P.E.
PE #39712
Structural

| | | | |
|-----------|---------|-------------|-----------------------------------|
| Revsd By: | Date: | Revisions: | |
| Revsd By: | Date: | Revisions: | |
| Revsd By: | Date: | Revisions: | |
| F.K. | 4/10/07 | A | UPDATE NOTES AND REVISE ANCHORAGE |
| Drawn By: | Date: | Checked By: | Date: |
| F.K. | 4/15/03 | | |

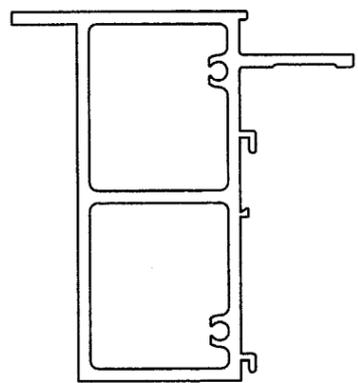
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGI
Visibly Better

| | | | |
|---|--------|--------|-------------|
| Description: ELEVATION, GLAZING & NOTES (FLANGED) | | | |
| Title: MID-RISE ALUM. PICTURE WINDOW (NON-IMPACT) | | | |
| Series/Model: | Scale: | Sheet: | Drawing No. |
| PW-820 | NTS | 4 of 8 | 4246-7 |
| Rev: | | | |
| A | | | |

COMPARATIVE ANALYSIS TABLE 5. FLANGED FRAME W/ 3/16" TEMPERED GLASS FTL-3534 & FTL-3766

| WIDTH | HEIGHT | | | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|
| | 26.000 | | 30.000 | | 34.000 | | 38.375 | | 40.000 | | 43.000 | | 45.000 | | 47.000 | | 49.000 | |
| 53.125 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -166.2 | +130.4 | -130.4 | +120.1 | -120.1 | +103.9 | -103.9 | +94.9 | -94.9 | +87.0 | -87.0 | +80.0 | -80.0 |
| 60.000 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -166.2 | +130.4 | -130.4 | +120.1 | -120.1 | +103.9 | -103.9 | +94.9 | -94.9 | +87.0 | -87.0 | +80.0 | -80.0 |
| 74.000 | +133.3 | -179.2 | +133.3 | -160.6 | +133.3 | -146.6 | +130.4 | -130.4 | +120.1 | -120.1 | +103.9 | -103.9 | +94.9 | -94.9 | +87.0 | -87.0 | +80.0 | -80.0 |
| 87.000 | +133.3 | -147.7 | +131.6 | -131.6 | +119.4 | -119.4 | +109.2 | -109.2 | +106.0 | -106.0 | +100.9 | -100.9 | +94.9 | -94.9 | +87.0 | -87.0 | +80.0 | -80.0 |
| 89.000 | +133.3 | -143.8 | +128.0 | -128.0 | +116.1 | -116.1 | +106.1 | -106.1 | +103.0 | -103.0 | +97.9 | -97.9 | +94.9 | -94.9 | +87.0 | -87.0 | +80.0 | -80.0 |
| 91.000 | +133.3 | -140.1 | +124.6 | -124.6 | +113.0 | -113.0 | +103.1 | -103.1 | +100.1 | -100.1 | +95.1 | -95.1 | +92.2 | -92.2 | +87.0 | -87.0 | +80.0 | -80.0 |
| 93.000 | +133.3 | -136.6 | +121.5 | -121.5 | +110.0 | -110.0 | +100.3 | -100.3 | +97.3 | -97.3 | +92.4 | -92.4 | +89.6 | -89.6 | +87.0 | -87.0 | +80.0 | -80.0 |
| 95.000 | +133.3 | -133.3 | +118.4 | -118.4 | +107.2 | -107.2 | +97.7 | -97.7 | +94.7 | -94.7 | +89.9 | -89.9 | +87.1 | -87.1 | +84.6 | -84.6 | +80.0 | -80.0 |
| 97.000 | +130.1 | -130.1 | +115.5 | -115.5 | +104.5 | -104.5 | +95.2 | -95.2 | +92.3 | -92.3 | +87.5 | -87.5 | +84.8 | -84.8 | +82.3 | -82.3 | +80.0 | -80.0 |



COMPARATIVE ANALYSIS TABLE 6. FLANGED FRAME W/ 1/4" TEMPERED GLASS FTL-3535 & FTL-3766

| WIDTH | HEIGHT | | | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 26.000 | | 30.000 | | 34.000 | | 38.375 | | 40.000 | | 43.000 | | 45.000 | | 47.000 | | 49.000 | |
| 53.125 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -166.3 | +133.3 | -153.1 | +132.5 | -132.5 | +120.9 | -120.9 | +110.9 | -110.9 | +102.0 | -102.0 |
| 60.000 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -166.3 | +133.3 | -153.1 | +132.5 | -132.5 | +120.9 | -120.9 | +110.9 | -110.9 | +102.0 | -102.0 |
| 74.000 | +133.3 | -210.0 | +133.3 | -204.7 | +133.3 | -187.0 | +133.3 | -166.3 | +133.3 | -153.1 | +132.5 | -132.5 | +120.9 | -120.9 | +110.9 | -110.9 | +102.0 | -102.0 |
| 87.000 | +133.3 | -188.3 | +133.3 | -167.8 | +133.3 | -152.3 | +133.3 | -139.2 | +133.3 | -135.2 | +128.7 | -128.7 | +120.9 | -120.9 | +110.9 | -110.9 | +102.0 | -102.0 |
| 89.000 | +133.3 | -183.4 | +133.3 | -163.2 | +133.3 | -148.0 | +133.3 | -135.3 | +131.3 | -131.3 | +124.8 | -124.8 | +120.9 | -120.9 | +110.9 | -110.9 | +102.0 | -102.0 |
| 91.000 | +133.3 | -178.7 | +133.3 | -158.9 | +133.3 | -144.0 | +131.5 | -131.5 | +127.6 | -127.6 | +121.2 | -121.2 | +117.6 | -117.6 | +110.9 | -110.9 | +102.0 | -102.0 |
| 93.000 | +133.3 | -174.2 | +133.3 | -154.9 | +133.3 | -140.2 | +127.9 | -127.9 | +124.1 | -124.1 | +117.9 | -117.9 | +114.2 | -114.2 | +110.9 | -110.9 | +102.0 | -102.0 |
| 95.000 | +133.3 | -170.0 | +133.3 | -151.0 | +133.3 | -136.6 | +124.6 | -124.6 | +120.8 | -120.8 | +114.7 | -114.7 | +111.1 | -111.1 | +107.8 | -107.8 | +102.0 | -102.0 |
| 97.000 | +133.3 | -165.9 | +133.3 | -147.3 | +133.2 | -133.2 | +121.3 | -121.3 | +117.6 | -117.6 | +111.6 | -111.6 | +108.1 | -108.1 | +104.9 | -104.9 | +102.0 | -102.0 |

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 08-0429.10
 Expiration Date JULY 31, 2013
 By Manuel Perez
 Miami Dade Product Control
 Division

COMPARATIVE ANALYSIS TABLE 7. FLANGED FRAME W/ 3/8" TEMPERED GLASS FTL-3536 & FTL-3766

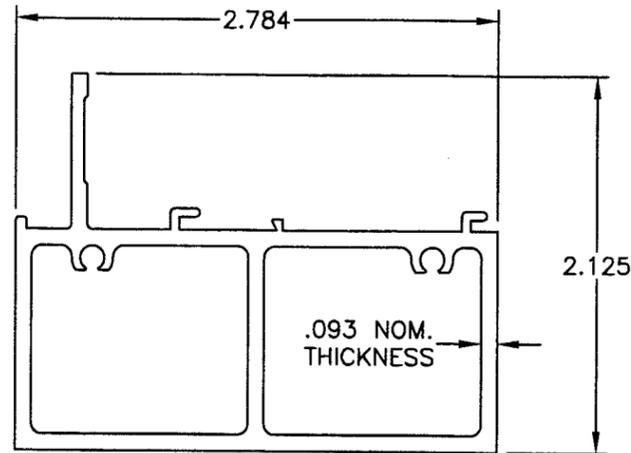
| WIDTH | HEIGHT | | | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 26.000 | | 30.000 | | 34.000 | | 38.375 | | 40.000 | | 43.000 | | 45.000 | | 47.000 | | 49.000 | |
| 53.125 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -181.8 | +130.4 | -166.0 | +119.6 | -152.2 | +110.0 | -140.0 |
| 60.000 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -181.8 | +130.4 | -166.0 | +119.6 | -152.2 | +110.0 | -140.0 |
| 74.000 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -181.8 | +130.4 | -166.0 | +119.6 | -152.2 | +110.0 | -140.0 |
| 87.000 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -209.0 | +133.3 | -191.1 | +133.3 | -185.6 | +133.3 | -176.6 | +130.4 | -166.0 | +119.6 | -152.2 | +110.0 | -140.0 |
| 89.000 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -203.2 | +133.3 | -185.6 | +133.3 | -180.2 | +133.3 | -171.4 | +130.4 | -166.0 | +119.6 | -152.2 | +110.0 | -140.0 |
| 91.000 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -197.7 | +133.3 | -180.5 | +133.3 | -175.1 | +130.8 | -166.4 | +126.8 | -161.3 | +119.6 | -152.2 | +110.0 | -140.0 |
| 93.000 | +133.3 | -210.0 | +133.3 | -210.0 | +133.3 | -192.5 | +133.3 | -175.6 | +133.3 | -170.3 | +127.1 | -161.8 | +123.2 | -156.8 | +119.6 | -152.2 | +110.0 | -140.0 |
| 95.000 | +133.3 | -210.0 | +133.3 | -207.2 | +133.3 | -187.5 | +133.3 | -171.0 | +130.3 | -165.8 | +123.6 | -157.4 | +119.8 | -152.4 | +116.3 | -148.0 | +110.0 | -140.0 |
| 97.000 | +133.3 | -210.0 | +133.3 | -202.2 | +133.3 | -182.8 | +130.9 | -166.6 | +126.9 | -161.5 | +120.4 | -153.2 | +116.6 | -148.4 | +113.1 | -144.0 | +110.0 | -140.0 |

PRODUCT REVISED
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 Building Code
 Acceptance No. 07-0424.08
 Expiration Date 07/31/08
 By M. Kraus
 Miami Dade Product Control
 Division

| | | | | | | | | | | |
|-----------|-------|-------------|-------|--|--|--|--------|--------|--------------|-------|
| Revsd By: | Date: | Revisions: | | 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 | | Description: DESIGN PRESSURES, FLANGED FRAME | | | | |
| Revsd By: | Date: | Revisions: | | | | Title: MID-RISE ALUM. PICTURE WINDOW (NON-IMPACT) | | | | |
| Revsd By: | Date: | Revisions: | | | | Series/Model: | Scale: | Sheet: | Drawing No.: | Rev.: |
| Drawn By: | Date: | Checked By: | Date: | | | PW-820 | NTS | 5 of 8 | 4246-7 | A |

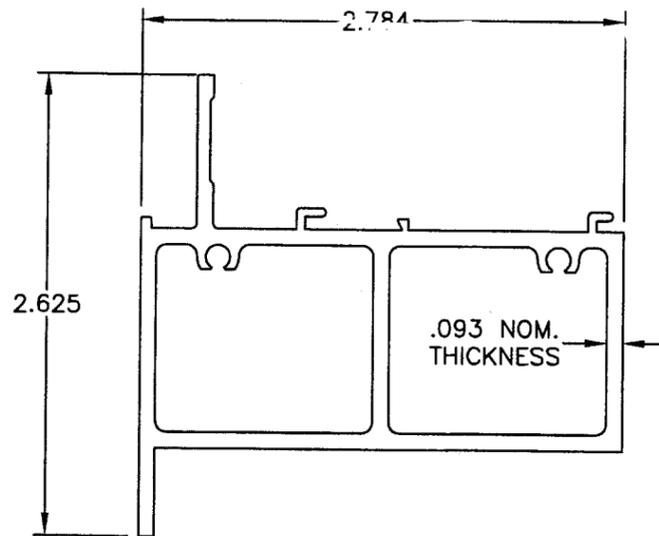
MOVE ANCHORAGE TO SHEET 4, REVISE TABLE FORMAT & UPDATE DESIGN PRESSURES PER ASTM E 1300-02.

R. L. Clark
 4/14/07
 Robert L. Clark, P.E.
 PE #39712
 Structural



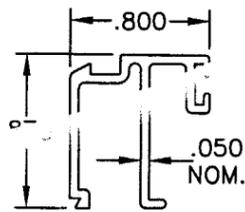
INSIDE MOUNT EQUAL

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



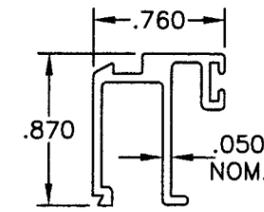
INSIDE MOUNT FLANGED

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



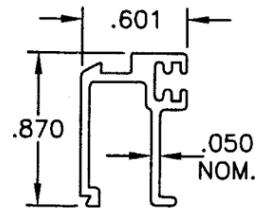
3/16 GLAZING BEAD

10 MAT'L: 6063-T5
 DWG #4248



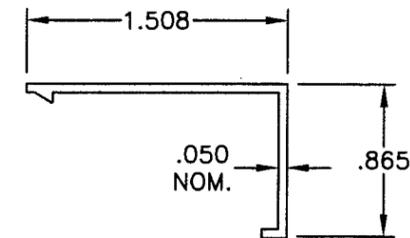
1/4 GLAZING BEAD

11 MAT'L: 6063-T5
 DWG #4249



3/8 GLAZING BEAD

18 MAT'L: 6063-T5
 DWG #4250



TRIM COVER

24 MAT'L: 6063-T5
 DWG #4247

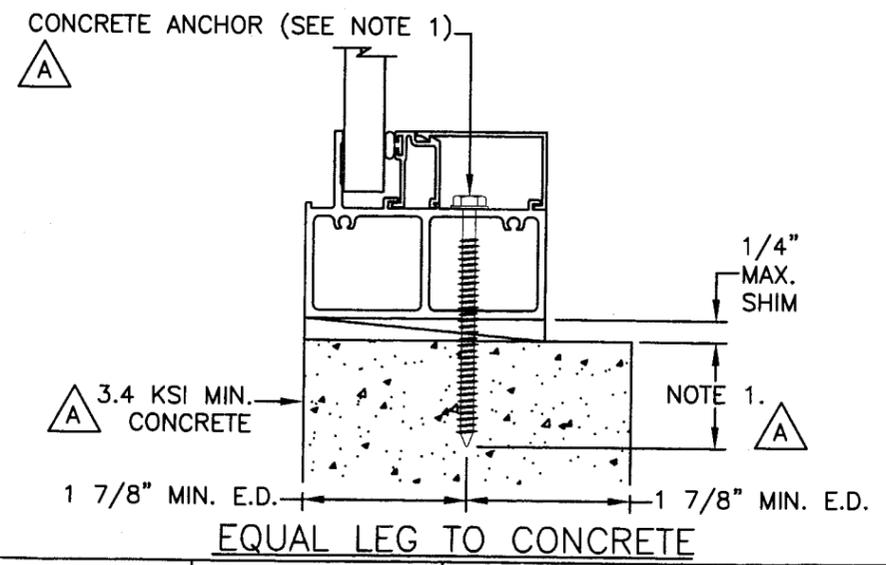
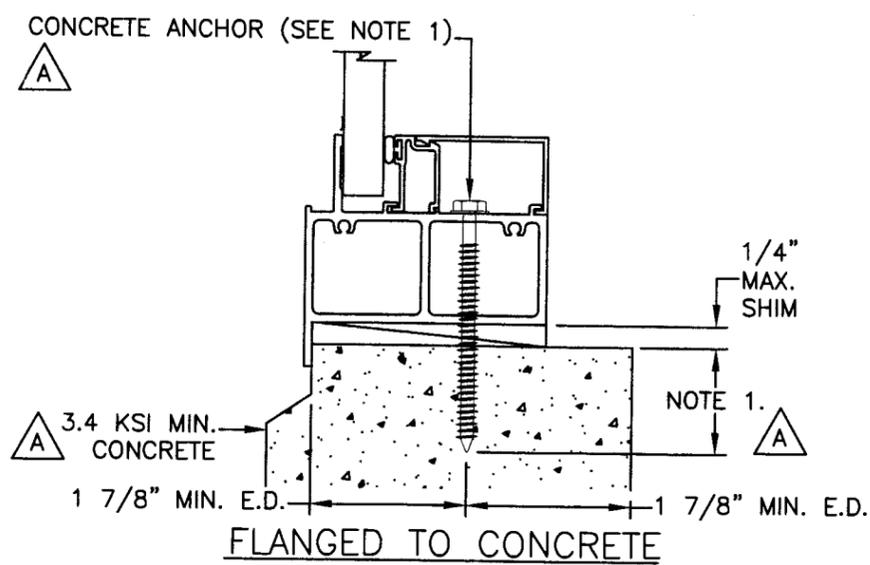
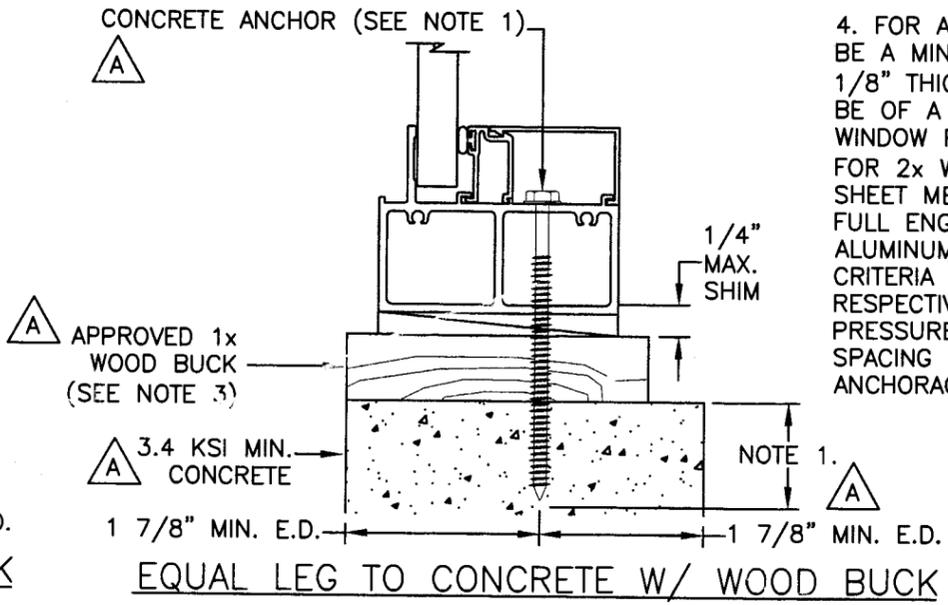
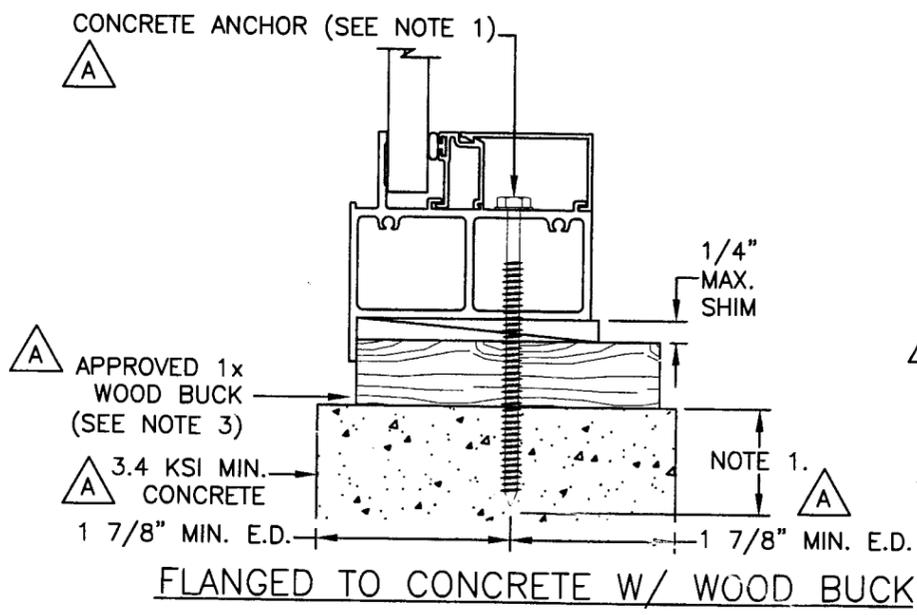
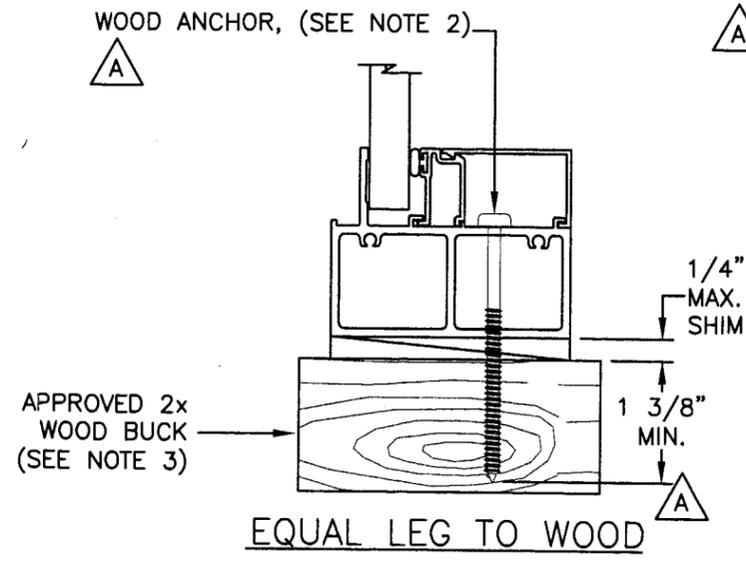
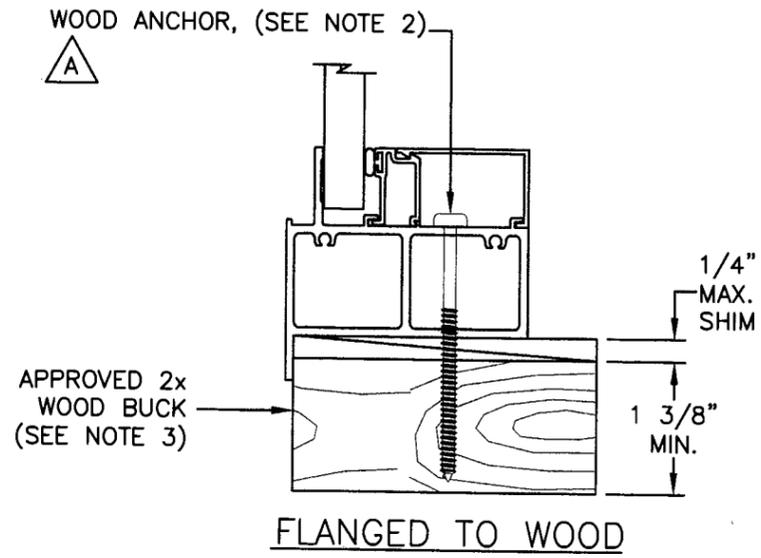
| ITEM | DWG # | PGT. # | DESCRIPTION |
|------|--------|---------------|---|
| 1 | 4238B | 64238 | FRAME, INSIDE MOUNT EQUAL LEG |
| 2 | 4239B | 64239 | FRAME, INSIDE MOUNT FLANGED |
| 4 | 1155 | 781PQX | #8 X 1 QUAD PN SMS STAINLESS STEEL |
| 5 | | | SCHNEE-MOREHEAD SM5504 ACRYL-R NARROW JOINT SEALANT |
| 6 | | 3/16 TEMPERED | GLASS |
| 7 | | 1/4 TEMPERED | GLASS |
| 8 | | 3/8 TEMPERED | GLASS |
| 9 | 1265-4 | 712654K | SETTING BLOCK - 5/32" X 3/8" X 2" LONG |
| 10 | 4248 | 64248 | 3/16 MONOLITHIC GLAZING BEAD |
| 11 | 4249 | 64249 | 1/4 MONOLITHIC GLAZING BEAD |
| 18 | 4250 | 64250 | 3/8 MONOLITHIC GLAZING BEAD |
| 22 | 1224 | 6TP247 | VINYL BULB WEATHERSTRIP (THICK) |
| 24 | 4247 | 64247 | TRIM COVER |
| 32 | | SILICONE | DOW CORNING 899, 995 OR EQUIVALENT |

PRODUCT RENEWED
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 By *Mmanuel Perez*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0424.08
 Expiration Date 07/31/08
 By *M. Frank*
 Miami Dade Product Control
 Division

R. L. Clark
 4/19/07
 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 (NON-IMPACT) | | | | |
| Revsd By: F.K. | Date: 4/10/07 | Revisions: A | NO CHANGE THIS SHEET | | | Series/Model: PW-820 | Scale: NTS | Sheet: 7 of 8 | Drawing No. 4246-7 | Rev: A |
| Drawn By: F.K. | Date: 4/15/03 | Checked By: | Date: | | | | | | | |



- 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
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 Acceptance No. 08-0429.10
 Expiration Date JULY 31, 2013
 By *Maurice Perry*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0424.08
 Expiration Date 07/31/08
 By *M. Perry*
 Miami Dade Product Control
 Division

Robert L. Clark
 4/19/07
 Robert L. Clark, P.E.
 PE #39712
 Structural

| Revsd By: | Date: | Revisions: |
|----------------|---------------|---|
| Revsd By: | Date: | Revisions: |
| Revsd By: F.K. | Date: 4/10/07 | Revisions: A UPDATE ANCHORAGE DETAILS AND NOTES |
| Drawn By: F.K. | Date: 4/15/03 | Checked By: Date: |

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



| | | | |
|---|---------------|------------------|-----------------------|
| Description: ANCHORAGE | | | |
| Title: MID-RISE ALUM. PICTURE WINDOW (NON-IMPACT) | | | |
| Series/Model: PW-820 | Scale: NTS | Sheet: 8 of 8 | Drawing No. 4246-7 |
| | | | Rev: A |