



MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/building](http://www.miamidade.gov/building)

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

**NOTICE OF ACCEPTANCE (NOA)**

**PGT Industries, Inc.**  
**1070 Technology Drive**  
**North Venice, 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 and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section 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-640 Casement Picture" Aluminum Fixed Window - N.I.**

**APPROVAL DOCUMENT:** Drawing No. **MD-PW640-NI**, titled "Casement Picture Window Details – (NI)", sheets 1 through 10 of 10, dated 08/08/12, with revision **F** dated 07/31/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None.**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, 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.

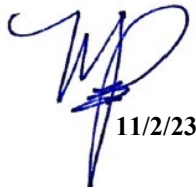
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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 No. 23-0303.01** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



  
11/2/23

**NOA No. 23-0816.07**  
**Expiration Date: April 11, 2028**  
**Approval Date: September 14, 2023**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 12-1218.12)*
2. Drawing No. **MD-PW640-NI**, titled "Casement Picture Window Details – NI", sheets 1 through 10 of 10, dated 08/08/12, with revision **E** dated 12/17/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under NOA No. 20-1223.05)*

**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  
6) Forced Entry Test, per ASTM F588 and TAS 202-94  
along with marked-up drawings and installation diagram of all PGT Industries, Inc. representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: **FTL-7897**, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14  
**FTL-20-2107.1**, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal)  
**FTL-20-2107.2**, PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal)  
**FTL-20-2107.3**, PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and  
**FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) dated 07/13/20, all signed and sealed by Idalmis Ortega, P.E.  
*(Submitted under NOA No. 20-0401.13)*
2. 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 a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.  
*(Submitted under NOA No. 16-0629.20)*

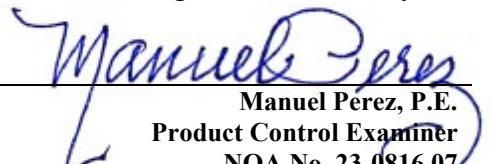
  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0816.07  
Expiration Date: April 11, 2028  
Approval Date: September 14, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**B. TESTS (CONTINUED)**

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 a series CA640F aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-7060**, dated 09/07/12, signed and sealed by Marlin D. Brinson, P.E.  
**(Submitted under NOA No. 12-1218.12)**
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  
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of a series CA-740 outswing aluminum casement window mullied to a fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3579**, dated 10/03/02, signed and sealed by Joseph Chan, P.E.  
**(Submitted under NOA No. 12-1218.2)**
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  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of a series CA-740 outswing aluminum casement window mullied to a fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3580**, dated 10/03/02, signed and sealed by Joseph Chan, P.E.  
**(Submitted under NOA No. 12-1218.12)**
6. 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  
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of a series CA-740 aluminum fixed window mullied to a projected window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3724**, dated 02/28/02, signed and sealed by Joseph Chan, P.E.  
**(Submitted under NOA No. 12-1218.12)**

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0816.07  
Expiration Date: April 11, 2028  
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**PGT Industries, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)** and **FBC 7<sup>th</sup> Edition (2020)** dated 03/19/20. prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under NOA No. 20-0401.13)*

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)** and the **FBC 7<sup>th</sup> Edition (2020)**, dated March 1, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under NOA No. 23-0303.01)*
2. Statement letter of no financial interest, dated March 1, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under NOA No. 23-0303.01)*

**G. OTHERS**

1. Notice of Acceptance No. **20-1223.05**, issued to PGT Industries, Inc. for their Series "PW640 Casement Picture" Aluminum Fixed Window - N.I." approved on 03/04/21 and expiring on 04/11/23.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0816.07  
Expiration Date: April 11, 2028  
Approval Date: September 14, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **MD-PW640-NI**, titled “Casement Picture Window Details – (NI)”, sheets 1 through 10 of 10, dated 08/08/12, with revision **F** dated 07/31/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

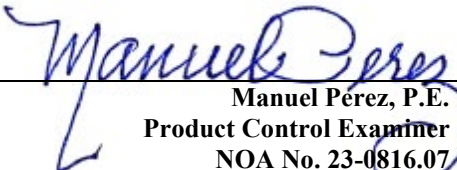
1. None.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)** and the **FBC 8<sup>th</sup> Edition (2023)**, dated July 31, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated July 31, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **23-0303.01**, issued to PGT Industries, Inc. for their Series “PW-640 Casement Picture” Aluminum Fixed Window - N.I. approved on 03/30/23 and expiring on 04/11/28.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0816.07  
Expiration Date: April 11, 2028  
Approval Date: September 14, 2023



GENERAL NOTES: SERIES PW640  
NON-IMPACT CASEMENT PICTURE WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE, SEE TABLE 3, SHEET 4.

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT AS SPECIFIED ON TABLE 3, SHEET 4. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

7) DESIGN PRESSURES:  
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.  
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.  
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

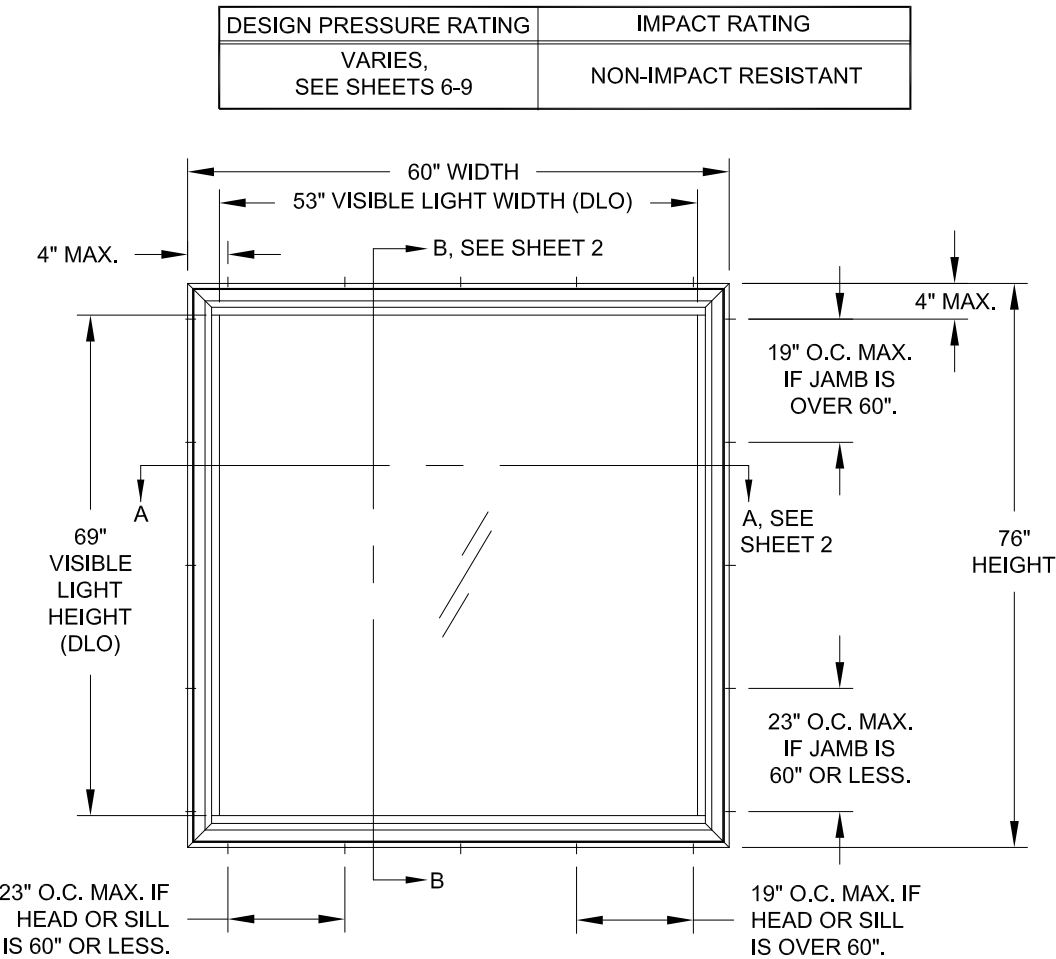
9) REFERENCES: TEST REPORTS FTL-7060, 3579, 3580, 3724; DEWALT ULTRACON+ NOA; ELCO ULTRACON NOA; DEWALT/ELCO CRETEFLEX NOA; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL.

10) THE PW640 CASEMENT PICTURE WINDOW WAS FORMERLY KNOWN AS THE CA640F FIXED CASEMENT WINDOW.

11) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME. SEAL CUT EDGE.

CODES / STANDARDS USED:

- 2023 FLORIDA BUILDING CODE (FBC), 8TH EDITION
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- ASTM E1300-04
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2020
- AISI S100-16
- AISC 360-16

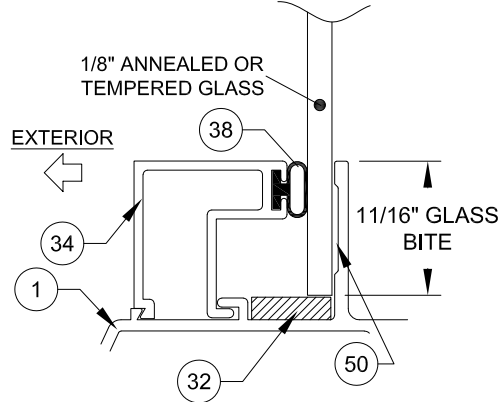


TYP. ELEVATION OF CASEMENT PICTURE WINDOW

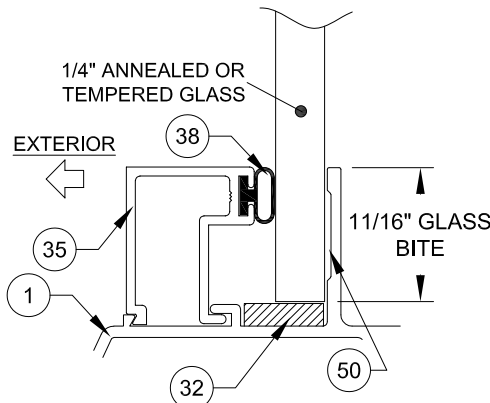
TABLE 1:

| Glass Types |                                           |  | Sheet # |
|-------------|-------------------------------------------|--|---------|
| 1           | 1/8" Annealed                             |  | 6       |
| 2           | 1/8" Tempered                             |  | 6       |
| 3           | 3/16" Annealed                            |  | 7       |
| 4           | 3/16" Tempered                            |  | 9       |
| 5           | 1/4" Annealed                             |  | 7       |
| 6           | 1/4" Tempered                             |  | 9       |
| 7           | 9/16" IG: (1/8" An - 5/16" Air - 1/8" An) |  | 7       |
| 8           | 9/16" IG: (1/8" T - 5/16" Air - 1/8" T)   |  | 7       |
| 9           | 7/8" IG: (3/16" An - 1/2" Air - 3/16" An) |  | 8       |
| 10          | 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)   |  | 9       |

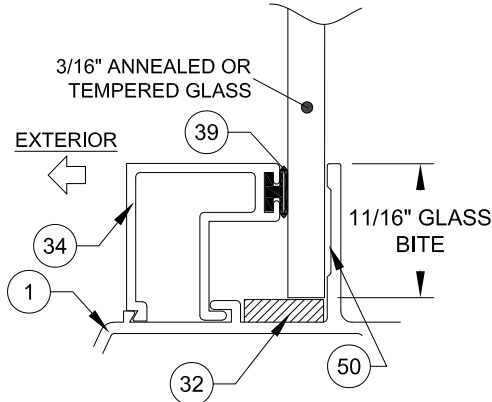
|                            |     |
|----------------------------|-----|
| GENERAL NOTES.....         | 1   |
| ELEVATION.....             | 1   |
| GLAZING DETAILS.....       | 1   |
| INSTALLATION.....          | 2   |
| ASSEMBLY TUBE DETAILS..... | 3   |
| ANCHOR SPECIFICATIONS..... | 4   |
| ANCHOR QUANTITIES.....     | 4-5 |
| DESIGN PRESSURES.....      | 6-9 |
| ASSEMBLY DETAILS/BOM.....  | 10  |



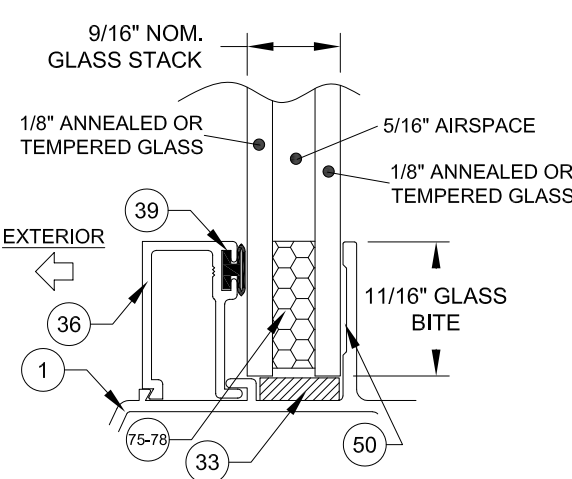
GLASS TYPES 1 & 2



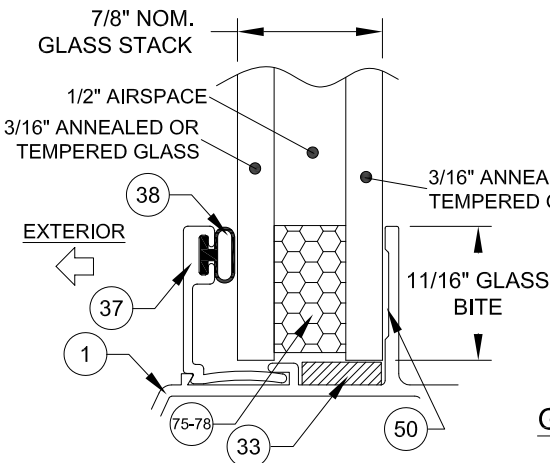
GLASS TYPES 5 & 6



GLASS TYPES 3 & 4



GLASS TYPES 7 & 8



GLASS TYPES 9 & 10

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-0816.07**  
Expiration Date: **04/11/2028**  
By: *Manuel Torres*  
Miami-Dade Product Control



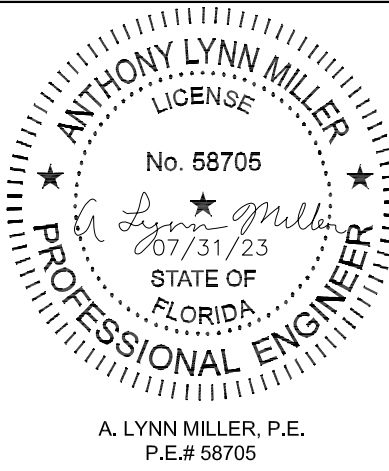
Custom Windows and Doors  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275

(941) 480-1600

REGISTRATION #29296

|        |                                                                                        |  |       |         |          |             |          |
|--------|----------------------------------------------------------------------------------------|--|-------|---------|----------|-------------|----------|
| Series | CASEMENT PICTURE WINDOW DETAILS-(NI)                                                   |  |       |         |          | Date        | 08/08/12 |
|        | GENERAL NOTES & ELEVATION                                                              |  |       |         | Drawn By | J.ROSOWSKI  |          |
|        | F) UPDATE TO 2023 BUILDING CODE. REMOVE "INSTALLATION ANCHORS s/b SEALED" FROM NOTE 5. |  |       |         |          | Rev Date    | 07/31/23 |
|        | ADD NOTE 11. SB                                                                        |  |       |         |          |             |          |
|        | PW-640                                                                                 |  | Sheet | 1 OF 10 | DWG No.  | MD-PW640-NI | Rev.     |



INSTALLATION  
OPTION 1  
INSTALLATION ANCHORS  
INTO 2X WOOD.

EDGE DISTANCE

EDGE DISTANCE

EMBEDMENT

AS REQUIRED  
PER TABLE 3,  
SHEET 4

34-37

WINDOW  
HEIGHT

VISIBLE  
LIGHT  
HEIGHT  
(DLO)

EXTERIOR

TYP. ANCHOR TYPE,  
EMBEDMENT AND EDGE  
DISTANCE PER SUBSTRATE,  
SEE TABLE 3, SHEET 4.

INSTALLATION OPTION 3  
INSTALLATION ANCHORS THROUGH  
1X BUCKSTRIP INTO MASONRY.

VERTICAL SECTION B-B

CONCRETE  
PER ANCHOR  
REQUIREMENT

EDGE DISTANCE

1X WOOD  
BUCKSTRIP,  
SEE NOTE 2,  
THIS SHEET.

1/4" MAX SHIM

EMBEDMENT

INSTALLATION  
OPTION 2  
INSTALLATION  
ANCHORS DIRECTLY  
INTO MASONRY.

TYP. ANCHOR  
TYPE,  
EMBEDMENT AND  
EDGE DISTANCE  
PER SUBSTRATE,  
SEE TABLE 3,  
SHEET 4.

EDGE  
DISTANCE

EMBEDMENT

OPTIONAL ADDON  
FLANGE @ HEAD,  
SILL & JAMBS

NOTES:

1) USE ONLY SUBSTRATE-APPROPRIATE  
ANCHORS LISTED ON TABLE 3, SHEET 4.  
FOLLOW EMBEDMENT AND EDGE  
DISTANCE LIMITS. ANY INSTALLATION  
OPTION SHOWN MAY BE USED ON ANY  
SIDE OF THE WINDOW.

2) ALL WOOD BUCKS LESS THAN 1-1/2"  
THICK ARE TO BE CONSIDERED 1X  
INSTALLATIONS. 1X WOOD BUCKS ARE  
OPTIONAL. UNIT MAY BE INSTALLED  
DIRECTLY TO SUBSTRATE. WOOD BUCKS  
DEPICTED AS 2X ARE 1-1/2" THICK OR  
GREATER. 1X AND 2X BUCKS (WHEN USED)  
SHALL BE DESIGNED TO PROPERLY  
TRANSFER LOADS TO THE STRUCTURE.  
WOOD BUCK DESIGN AND INSTALLATION  
IS THE RESPONSIBILITY OF THE ENGINEER  
OR ARCHITECT OF RECORD. MAXIMUM  
SHIM THICKNESS TO BE 1/4".

CONCRETE/CMU  
PER ANCHOR  
REQUIREMENT

1/4" MAX  
SHIM

EDGE  
DISTANCE

EMBEDMENT

OPTIONAL ADDON  
FLANGE @ HEAD,  
SILL & JAMBS

70

SEE DETAIL  
A1, BELOW

10" MAX.

DETAIL  
A1

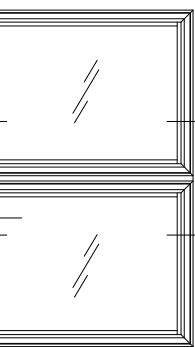
BUCK WIDTH

VISIBLE LIGHT WIDTH (DLO)

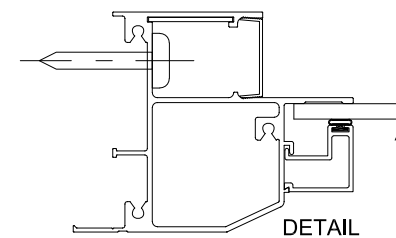
WINDOW WIDTH

HORIZONTAL SECTION A-A

10" MAX.



SEE DETAIL A2, BELOW



DETAIL  
A2

INSTALLATION  
OPTION 4  
INSTALLATION  
ANCHORS DIRECTLY  
INTO METAL.

AS REQUIRED  
PER TABLE 3,  
SHEET 4

2

34-37

1

EDGE DISTANCE

STEEL  
SELF-DRILLING  
SMS, SEE TABLE 3,  
SHEET 4.

DADE APPROVED  
MULLION, ALUMINUM,  
STEEL FRAMING OR  
STEEL STUD.

EXTERIOR

NOTES:

1) WHEN INSTALLING  
COMBINATION UNITS,  
ADDITIONAL INSTALLATION  
ANCHORS MAY NEED TO BE  
INSTALLED THROUGH THE  
WINDOW FRAMES AT 10" MAX.  
FROM EACH SIDE OF THE FRAME  
ASSEMBLY TUBE CENTERLINE.  
SEE TABLE BELOW:

| Additional Anchors Required on each<br>Side of the Frame Assembly Tube (FAT) |                  |             |          |
|------------------------------------------------------------------------------|------------------|-------------|----------|
| Vert. FAT                                                                    | Window<br>Width  | Anchor Type |          |
|                                                                              |                  | A           | B, C & D |
|                                                                              | 17" - 25.9"      | 1           | 0        |
| Horiz. FAT                                                                   | Window<br>Height | Anchor Type |          |
|                                                                              |                  | A           | B, C & D |
|                                                                              | 17" - 25.9"      | 1           | 0        |
| Horiz. FAT                                                                   | 26"+             | 1           | 1        |

VISIBLE LIGHT FORMULAS  
WIDTH: WINDOW WIDTH - 7  
HEIGHT: WINDOW HEIGHT - 7

**PGT**  
Custom Windows and Doors

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

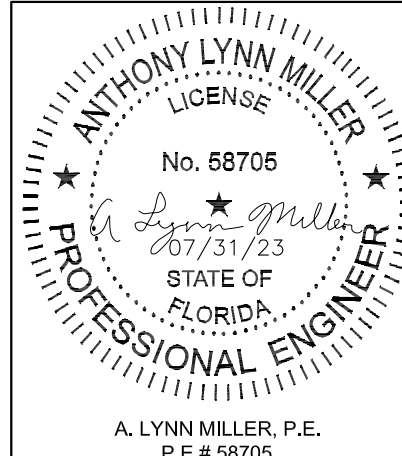
PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275

(941) 480-1600

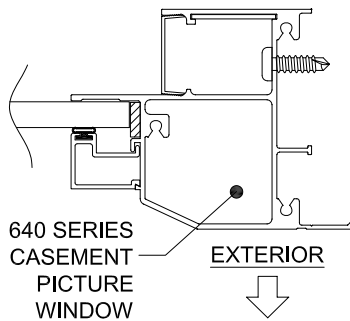
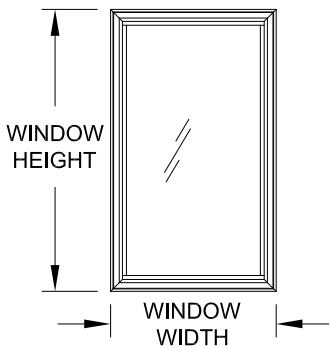
REGISTRATION #29296

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-0816.07**  
Expiration Date: **04/11/2028**  
By: *Manuel Torres*  
Miami-Dade Product Control

| Title   | CASEMENT PICTURE WINDOW DETAILS-(NI) | Date     | 08/08/12   |
|---------|--------------------------------------|----------|------------|
| Desc.   | GENERAL NOTE & ELEVATION             | Drawn By | J.ROSOWSKI |
| Rev     | F) NO CHANGES, THIS SHEET. SB        | Rev Date | 07/31/23   |
| Series  | PW-640                               | Sheet    | 2 OF 10    |
| DWG No. | MD-PW640-NI                          | Rev.     | F          |



CASEMENT PICTURE WINDOW (O)

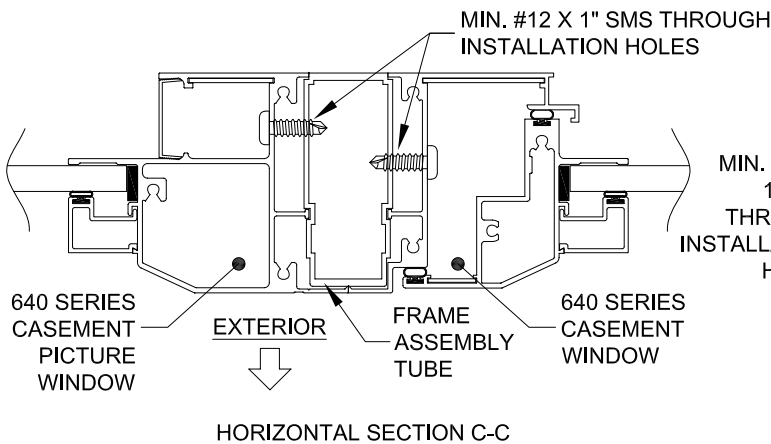
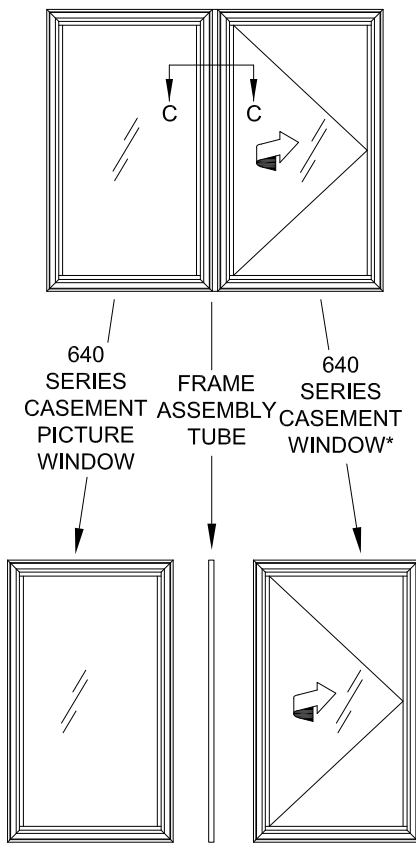


FOR SINGLE UNITS:

- 1) DETERMINE YOUR WINDOW SIZE AND GLASS.
- 2) KNOWING YOUR ANCHOR TYPE AND SUBSTRATE, DETERMINE YOUR ANCHOR GROUP FROM TABLE 3, SHEET 4.
- 3) FROM SHEETS 6-9, FIND THE SHEET FOR YOUR GLASS TYPE. FIND THE PRODUCT'S DESIGN PRESSURE FROM THE TABLE LABELED "DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS, ALL ANCHOR GROUPS".
- 4) DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 5) USING THE TABLES LABELED "WINDOW ANCHORS REQUIRED" (TABLES 2A & 2B, SHEETS 4 & 5), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 6) INSTALL AS PER THE INSTRUCTIONS ON SHEET 2.

CASEMENT PICTURE WINDOW / CASEMENT (OX)

FIGURE 1:

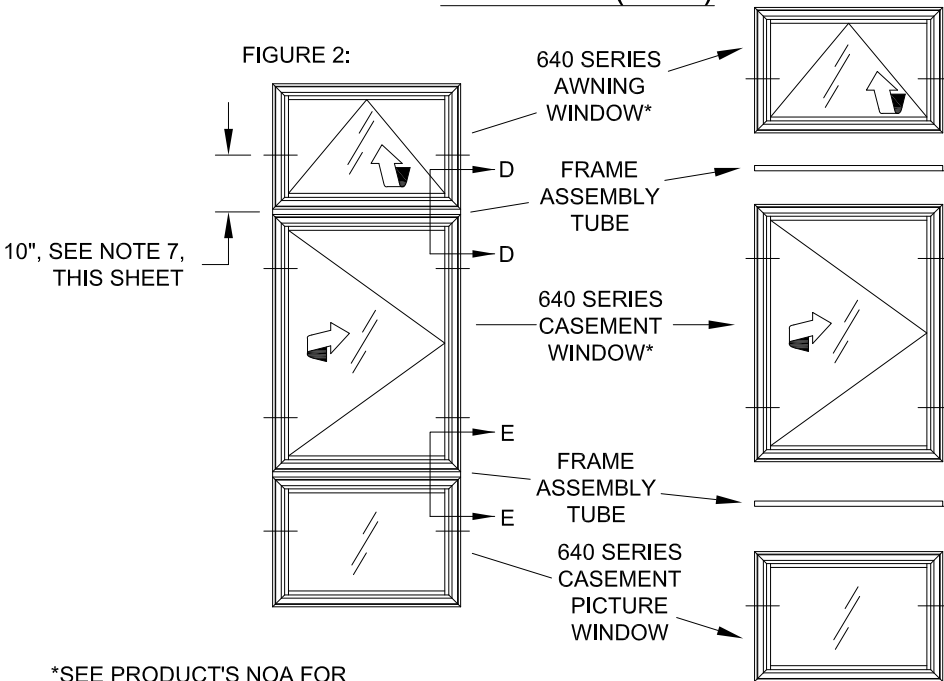


FOR EACH WINDOW IN A COMBINED ASSEMBLY:

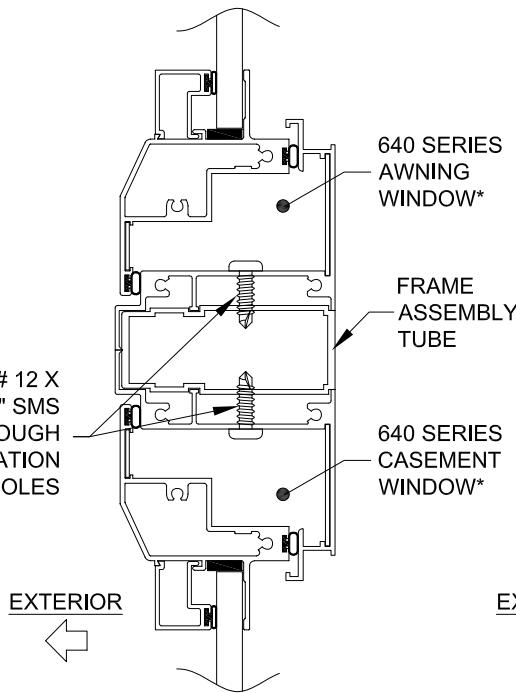
- 1) DETERMINE EACH INDIVIDUAL WINDOW TYPE, SIZE AND GLASS MAKEUP, SEE FIGURES 1 & 2, THIS SHEET. DETERMINE YOUR ANCHOR GROUP FROM TABLE 3, SHEET 4.
- 2) FROM SHEETS 6-9, FIND THE SHEET FOR YOUR GLASS TYPE.
- 3) FIND THE DESIGN PRESSURE FROM THE TABLES LABELED "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A FRAME ASSEMBLY TUBE". THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 4) USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLES 2A & 2B, SHEETS 4 & 5), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 5) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-3. NOTE THAT ADDITIONAL ANCHORS THROUGH THE WINDOW FRAME INTO THE SUBSTRATE MAY BE REQUIRED (SEE SHEET 2), AND THAT MIN. # 12 X 1" ANCHORS ARE TO BE USED THROUGH THE FRAME INTO THE FRAME ASSEMBLY TUBE (SEE DETAILS ON THIS SHEET).

AWNING / CASEMENT / CASEMENT PICTURE WINDOW (XXO)

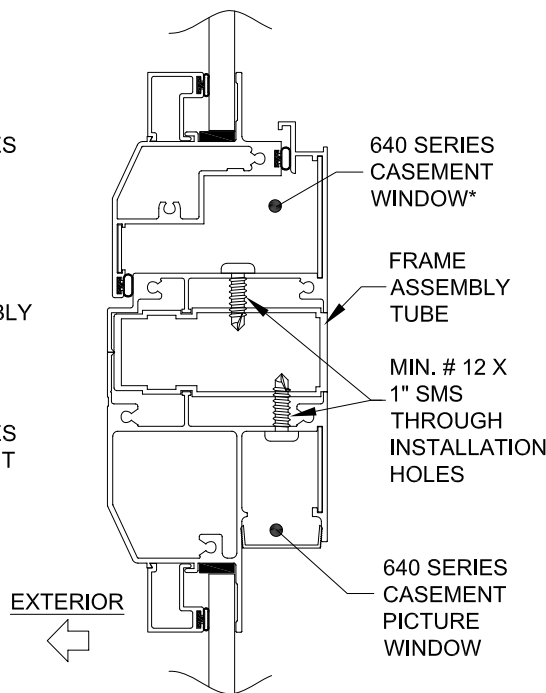
FIGURE 2:



\*SEE PRODUCT'S NOA FOR INSTALLATION SPECS



VERTICAL SECTION D-D



VERTICAL SECTION E-E

FRAME ASSEMBLY TUBE NOTES:

- 1) DIMENSIONS SHOWN ARE TIP-TO-TIP DIMENSIONS FOR EACH INDIVIDUAL WINDOW. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 2) ANY 640-SERIES PRODUCT (CASEMENT, AWNING OR CASEMENT PICTURE WINDOW) MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE. FOR ALL WINDOWS, USE THE WINDOW'S NOA FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS.
- 3) ALL WINDOWS IN THE COMBINATION UNIT MUST BE ABLE TO INDIVIDUALLY COMPLY WITH THE REQUIREMENTS OF THEIR RESPECTIVE NOA.
- 4) FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW, AS SHOW IN DETAILS, WITH MIN. #12 X 1" SHEET METAL SCREWS. USE THE SAME SPACING AND QUANTITY AS THE OPPOSITE FRAME MEMBER.
- 5) THE FRAME ASSEMBLY TUBE MAY NOT EXCEED 62" IN LENGTH (AS USED IN A 63" FLANGED WINDOW) OR BE USED IN TEE OR CROSS CONFIGURATIONS.
- 6) THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.
- 7) FOR ALL COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE. SEE TABLE BELOW:

| Additional Anchors Required on each Side of the Frame Assembly Tube (FAT) |               |             |          |
|---------------------------------------------------------------------------|---------------|-------------|----------|
| Vert. FAT                                                                 | Window Width  | Anchor Type |          |
|                                                                           |               | A           | B, C & D |
|                                                                           | 17" - 25.9"   | 1           | 0        |
| Horiz. FAT                                                                | Window Height | Anchor Type |          |
|                                                                           |               | A           | B, C & D |
|                                                                           | 17" - 25.9"   | 1           | 0        |
|                                                                           | 26"+          | Anchor Type |          |
|                                                                           |               | A           | B, C & D |
|                                                                           |               | 1           | 1        |

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-0816.07**  
Expiration Date: **04/11/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

F) NO CHANGES, THIS SHEET.  
SB - 7/31/23

Revision:

|                                                                                                   |                                    |                             |             |             |       |
|---------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------|-------------|-------------|-------|
| PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600      | REGISTRATION #29296                | 08/08/12                    | J. ROSOWSKI | MD-PW640-NI | F     |
|                                                                                                   |                                    |                             |             |             |       |
|                                                                                                   |                                    |                             |             |             |       |
|                                                                                                   |                                    |                             |             |             |       |
| PGT<br>Custom Windows and Doors<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 | CASEMENT PICTURE WINDOW DETAILS-NI | FRAME ASSEMBLY TUBE DETAILS | PW-640      | 3 OF 10     | Sheet |
|                                                                                                   |                                    |                             |             |             |       |
|                                                                                                   |                                    |                             |             |             |       |
|                                                                                                   |                                    |                             |             |             |       |

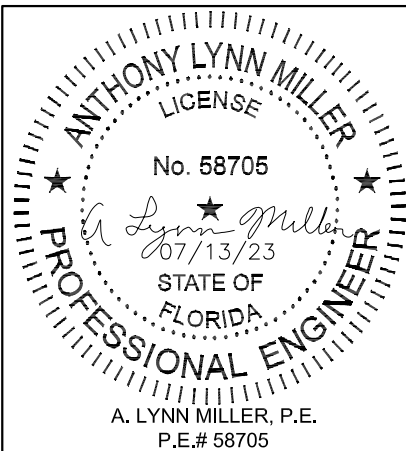
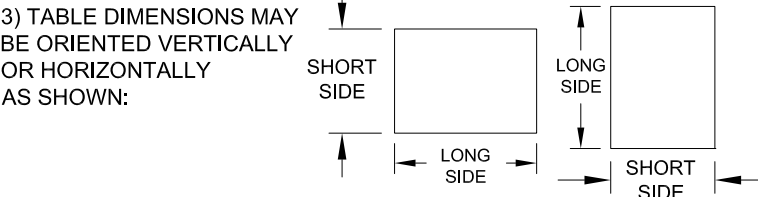




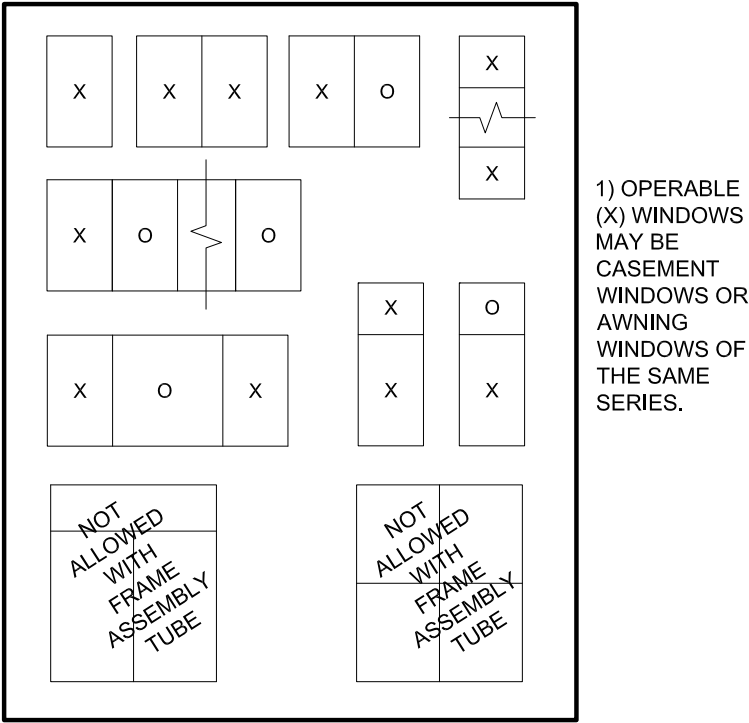
TABLE 2A:

| Window Anchors Required (37" and Less on Short Side Dimension) |           |            |            |    |    |   |           |    |    |   |         |    |    |   |     |    |    |   |         |    |    |    |         |    |    |    |
|----------------------------------------------------------------|-----------|------------|------------|----|----|---|-----------|----|----|---|---------|----|----|---|-----|----|----|---|---------|----|----|----|---------|----|----|----|
| Anchor Type                                                    |           |            | Short Side |    |    |   |           |    |    |   |         |    |    |   |     |    |    |   |         |    |    |    |         |    |    |    |
|                                                                |           |            | under 23"  |    |    |   | 25-15/16" |    |    |   | 27-3/4" |    |    |   | 29" |    |    |   | 31-1/2" |    |    |    | 33-1/2" |    |    |    |
|                                                                |           |            | A          | B  | C  | D | A         | B  | C  | D | A       | B  | C  | D | A   | B  | C  | D | A       | B  | C  | D  | A       | B  | C  | D  |
| Long Side                                                      | under 23" | Long Side  | 2          | 2  | 2  | 2 |           |    |    |   |         |    |    |   |     |    |    |   |         |    |    |    |         |    |    |    |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 |           |    |    |   |         |    |    |   |     |    |    |   |         |    |    |    |         |    |    |    |
|                                                                | 25-15/16" | Long Side  | 3          | 2  | 2  | 2 | 3         | 2  | 2  | 2 |         |    |    |   |     |    |    |   |         |    |    |    |         |    |    |    |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 |         |    |    |   |     |    |    |   |         |    |    |    |         |    |    |    |
|                                                                | 35"       | Long Side  | 4          | 3  | 3  | 3 | 5         | 3  | 3  | 3 | 5       | 3  | 3  | 3 | 5   | 3  | 3  | 3 | 5       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 37"       | Long Side  | 5          | 3  | 3  | 3 | 5         | 3  | 3  | 3 | 5       | 3  | 3  | 3 | 5   | 3  | 3  | 3 | 5       | 4  | 3  | 3  | 5       | 4  | 3  | 3  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 44"       | Long Side  | 6          | 4  | 3  | 3 | 6         | 4  | 3  | 3 | 6       | 4  | 4  | 3 | 7   | 4  | 4  | 3 | 7       | 5  | 4  | 3  | 7       | 5  | 4  | 3  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 44-1/4"   | Long Side  | 6          | 4  | 3  | 3 | 6         | 4  | 4  | 3 | 7       | 4  | 4  | 3 | 7   | 4  | 4  | 3 | 7       | 5  | 4  | 3  | 7       | 5  | 4  | 3  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 53-1/8"   | Long Side  | 7          | 5  | 4  | 3 | 8         | 5  | 4  | 3 | 8       | 5  | 5  | 3 | 8   | 5  | 5  | 3 | 9       | 6  | 5  | 3  | 9       | 6  | 5  | 3  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 58"       | Long Side  | 8          | 5  | 4  | 4 | 9         | 6  | 5  | 4 | 9       | 6  | 5  | 4 | 10  | 6  | 5  | 4 | 10      | 7  | 6  | 4  | 10      | 7  | 6  | 4  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 63"       | Long Side  | 9          | 6  | 5  | 4 | 10        | 6  | 5  | 4 | 10      | 7  | 6  | 4 | 11  | 7  | 6  | 4 | 12      | 7  | 6  | 4  | 12      | 7  | 6  | 4  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 66-13/16" | Long Side  | 10         | 6  | 5  | 5 | 10        | 7  | 6  | 5 | 11      | 7  | 6  | 5 | 11  | 7  | 6  | 5 | 12      | 8  | 6  | 5  | 13      | 8  | 7  | 5  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 67-1/2"   | Long Side  | 10         | 6  | 5  | 5 | 11        | 7  | 6  | 5 | 11      | 7  | 6  | 5 | 11  | 7  | 6  | 5 | 12      | 8  | 7  | 5  | 13      | 8  | 7  | 5  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 68"       | Long Side  | 10         | 6  | 5  | 5 | 11        | 7  | 6  | 5 | 11      | 7  | 6  | 5 | 12  | 7  | 6  | 5 | 12      | 8  | 7  | 5  | 13      | 8  | 7  | 5  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 70"       | Long Side  | 10         | 6  | 6  | 5 | 11        | 7  | 6  | 5 | 12      | 7  | 6  | 5 | 12  | 8  | 6  | 5 | 13      | 8  | 7  | 5  | 13      | 9  | 7  | 5  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 72"       | Long Side  | 10         | 7  | 6  | 5 | 11        | 7  | 6  | 5 | 12      | 8  | 7  | 5 | 12  | 8  | 7  | 5 | 13      | 8  | 7  | 5  | 14      | 9  | 7  | 5  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 74"       | Long Side  | 11         | 7  | 6  | 5 | 12        | 8  | 6  | 5 | 12      | 8  | 7  | 5 | 13  | 8  | 7  | 5 | 14      | 9  | 7  | 5  | 14      | 9  | 8  | 5  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 76"       | Long Side  | 11         | 7  | 6  | 5 | 12        | 8  | 7  | 5 | 13      | 8  | 7  | 5 | 13  | 8  | 7  | 5 | 14      | 9  | 8  | 5  | 15      | 9  | 8  | 5  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 84"       | Long Side  | 12         | 8  | 7  | 5 | 14        | 9  | 7  | 5 | 14      | 9  | 8  | 5 | 15  | 9  | 8  | 5 | 16      | 10 | 8  | 6  | 17      | 11 | 9  | 6  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 114"      | Long Side  | 17         | 11 | 9  | 7 | 19        | 12 | 10 | 7 | 20      | 13 | 11 | 7 | 21  | 13 | 11 | 7 | 23      | 14 | 12 | 8  | 24      | 15 | 13 | 8  |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 134"      | Long Side  | 21         | 13 | 11 | 8 | 23        | 14 | 12 | 8 | 24      | 15 | 13 | 8 | 25  | 16 | 13 | 9 | 27      | 17 | 14 | 9  | 29      | 18 | 15 | 10 |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  | 5       | 3  | 3  | 3  |
|                                                                | 145"      | Long Side  | 22         | 14 | 12 | 9 | 25        | 16 | 13 | 9 | 26      | 17 | 14 | 9 | 28  | 17 | 15 | 9 | 29      | 19 | 16 | 10 |         |    |    |    |
|                                                                |           | Short Side | 2          | 2  | 2  | 2 | 3         | 2  | 2  | 2 | 3       | 2  | 2  | 2 | 4   | 2  | 2  | 2 | 4       | 3  | 3  | 3  |         |    |    |    |

- 1) USE THIS TABLE FOR ALL WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE TIP-TO-TIP.
- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG SIDE DIMENSION SHOWN ON THE TABLE.



SAMPLE CONFIGURATIONS:



1) OPERABLE (X) WINDOWS MAY BE CASEMENT WINDOWS OR AWNING WINDOWS OF THE SAME SERIES.

TABLE 3:

| Group   | Anchor                                                     | Substrate         | Min. Edge Distance | Min. O.C. Distance | Min. Embedment | Anchor Plate Required? |
|---------|------------------------------------------------------------|-------------------|--------------------|--------------------|----------------|------------------------|
| A       | #12 steel SMS (G5) or #14 steel SMS (G5) or #14 410 SS SMS | S. Pine           | 5/8"               | 1"                 | 1-3/8"         | No                     |
|         |                                                            | 6063-T5 Alum.     | 3/8"               | 5/8"               | .063"          | No                     |
|         |                                                            | A36 Steel         | 3/8"               | 5/8"               | .050"          | No                     |
|         |                                                            | A653 Stud, Gr. 33 | 3/8"               | 5/8"               | .045", 20 Ga.  | No                     |
|         | 1/4" steel Ultracon+                                       | 3k Concrete       | 1"                 | 3"                 | 1-3/4"         | No                     |
|         |                                                            | Hollow Block      | 1"                 | 3"                 | 1-1/4"         | No                     |
| S. Pine |                                                            | 1"                | 1"                 | 1-3/8"             | No             |                        |
| B       | 1/4" steel Ultracon                                        | 2.85k Concrete    | 2-1/2"             | 4"                 | 1-3/8"         | No                     |
|         |                                                            | Hollow Block      | 1"                 | 6"                 | 1-1/4"         | No                     |
|         |                                                            | Hollow Block      | 2-1/2"             | 5"                 | 1-1/4"         | No                     |
| C       | 1/4" steel Ultracon                                        | Hollow Block      | 1"                 | 6"                 | 1-1/4"         | Yes                    |
|         | 1/4" steel Ultracon+                                       | 3k Concrete       | 1"                 | 4"                 | 1-3/8"         | Yes                    |
|         |                                                            | Hollow Block      | 1"                 | 3"                 | 1-1/4"         | Yes                    |
|         | 1/4" 410 SS CreteFlex                                      | 3.35k Concrete    | 1"                 | 5"                 | 1-3/4"         | No                     |
|         |                                                            | Hollow Block      | 2-1/2"             | 5"                 | 1-1/4"         | No                     |

TABLE 3: (cont.)

| Group | Anchor                                                                       | Substrate         | Min. Edge Distance | Min. O.C. Distance | Min. Embedment | Anchor Plate Required? |
|-------|------------------------------------------------------------------------------|-------------------|--------------------|--------------------|----------------|------------------------|
| D     | #12 steel SMS (G5) or #12 410 SS SMS or #14 steel SMS (G5) or #14 410 SS SMS | S. Pine           | 5/8"               | 1"                 | 1-3/8"         | Yes                    |
|       |                                                                              | 6063-T5 Alum.     | 3/8"               | 5/8"               | .0713"         | Yes                    |
|       |                                                                              | A36 Steel         | 3/8"               | 5/8"               | .050"          | Yes                    |
|       |                                                                              | A653 Stud, Gr. 33 | 3/8"               | 5/8"               | .045", 18 Ga.  | Yes                    |
|       |                                                                              | 2.85k Concrete    | 1"                 | 4"                 | 1-3/4"         | Yes                    |
|       | 1/4" steel Ultracon                                                          | 2.85k Concrete    | 2-1/2"             | 4"                 | 1-3/8"         | Yes                    |
|       |                                                                              | Hollow Block      | 2-1/2"             | 5"                 | 1-1/4"         | Yes                    |
|       |                                                                              | Filled Block      | 2-1/2"             | 4"                 | 1-3/4"         | Yes                    |
|       |                                                                              | 3.35k Concrete    | 1"                 | 6"                 | 1-3/4"         | Yes                    |
|       |                                                                              | 3.35k Concrete    | 2-1/2"             | 6"                 | 1"             | Yes                    |
|       | 1/4" 410 SS CreteFlex                                                        | Hollow Block      | 2-1/2"             | 6"                 | 1-1/4"         | Yes                    |
|       |                                                                              | 3.5k Concrete     | 1-1/4"             | 5"                 | 1-3/4"         | No                     |
|       |                                                                              | Hollow Block      | 3-1/8"             | 5"                 | 1-1/4"         | No                     |
|       | 5/16" steel Ultracon                                                         | Filled Block      | 2-1/2"             | 5"                 | 1-3/4"         | No                     |
|       |                                                                              | 3k Concrete       | 1-5/16"            | 4"                 | 1-3/8"         | Yes                    |
|       |                                                                              | Hollow Block      | 1-3/4"             | 3"                 | 1-1/4"         | Yes                    |
|       | 1/4" steel Ultracon+                                                         | S. Pine           | 1"                 | 1"                 | 1-3/8"         | Yes                    |

1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE FROM MORE THAN ONE OF THE ANCHOR GROUPS, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL SUBSEQUENT TABLES IN THIS APPROVAL.

2) ANCHOR MUST EXTEND A MIN. OF 3 THREADS BEYOND ANY METAL SUBSTRATE.

3) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

| Material                      | Min. F <sub>y</sub> | Min. F <sub>u</sub> |
|-------------------------------|---------------------|---------------------|
| Steel Screw                   | 92 ksi              | 120 ksi             |
| 410 Screw                     | 90 ksi              | 110 ksi             |
| Elco UltraCon®                | 155 ksi             | 177 ksi             |
| 1/4" DeWalt UltraCon+®        | 148 ksi             | 164 ksi             |
| 410 SS Elco/DeWalt CreteFlex® | 127.4 ksi           | 189.7 ksi           |
| 6063-T5 Aluminum              | 16 ksi              | 22 ksi              |
| A36 Steel                     | 36 ksi              | 58 ksi              |
| Gr. 33 Steel Stud             | 33 ksi              | 45 ksi              |

**PRODUCT REVISED**  
As complying with the Florida Building Code  
**NOA-No. 23-0816.07**  
**Expiration Date: 04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

Revision: F) CHANGE NOTE 3 TO INCLUDE ALL ANCHOR HEAD TYPES.  
SB -7/31/23

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

REGISTRATION #29296

08/08/12

CASEMENT PICTURE WINDOW DETAILS-NI

J. ROSOWSKI

MD-PW640-NI

4 OF 10

PW-640

**PGT**  
Custom Windows and Doors  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
07/13/23  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705

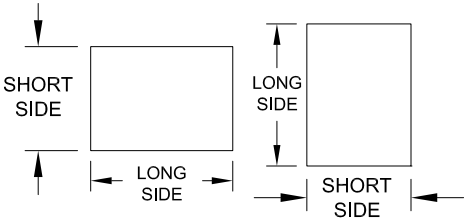
TABLE 2B:

| Window Anchors Required (Over 37" on Short Side Dimension) |            |            |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|------------------------------------------------------------|------------|------------|------------|----|---|----|-----|----|---|----|---------|----|---|----|---------|----|---|----|-----|----|---|----|-----|----|---|----|-----|----|---|----|-----|----|----|----|---------|---|---|--|
| Anchor Type                                                |            |            | Short Side |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            |            | 40"        |    |   |    | 44" |    |   |    | 48-1/4" |    |   |    | 53-1/8" |    |   |    | 54" |    |   |    | 58" |    |   |    | 60" |    |   |    | 63" |    |    |    | 67-1/2" |   |   |  |
|                                                            |            |            | A          | B  | C | D  | A   | B  | C | D  | A       | B  | C | D  | A       | B  | C | D  | A   | B  | C | D  | A   | B  | C | D  | A   | B  | C | D  | A   | B  | C  | D  |         |   |   |  |
| Long Side                                                  | under 23"  | Long Side  |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | 25-15/16"  | Long Side  |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | 35"        | Long Side  |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | 37"        | Long Side  |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side |            |    |   |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | 44"        | Long Side  | 7          | 5  | 4 | 3  | 7   | 5  | 4 | 3  |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side | 6          | 4  | 3 | 3  | 7   | 5  | 4 | 3  |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | 44-1/4"    | Long Side  | 7          | 5  | 4 | 3  | 7   | 5  | 4 | 3  |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side | 6          | 4  | 3 | 3  | 7   | 5  | 4 | 3  |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | 53-1/8"    | Long Side  | 10         | 6  | 5 | 4  | 10  | 7  | 6 | 4  | 10      | 7  | 6 | 4  | 11      | 7  | 6 | 4  |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side | 6          | 4  | 3 | 3  | 7   | 5  | 4 | 3  | 9       | 6  | 5 | 3  | 11      | 7  | 6 | 4  |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | 58"        | Long Side  | 11         | 7  | 6 | 4  | 12  | 8  | 6 | 4  | 12      | 8  | 7 | 4  | 12      | 8  | 7 | 4  | 12  | 8  | 7 | 4  |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side | 6          | 4  | 3 | 3  | 7   | 5  | 4 | 3  | 9       | 6  | 5 | 3  | 11      | 7  | 6 | 4  | 11  | 7  | 6 | 4  |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | 63"        | Long Side  | 13         | 8  | 7 | 5  | 13  | 9  | 7 | 5  | 14      | 9  | 7 | 5  | 14      | 9  | 8 | 5  | 14  | 9  | 8 | 5  | 15  | 9  | 8 | 5  | 15  | 9  | 8 | 5  |     |    |    |    |         |   |   |  |
|                                                            |            | Short Side | 6          | 4  | 3 | 3  | 7   | 5  | 4 | 3  | 9       | 6  | 5 | 3  | 11      | 7  | 6 | 4  | 11  | 7  | 6 | 4  | 13  | 8  | 7 | 4  | 13  | 9  | 7 | 5  |     |    | 15 | 9  | 8       | 5 |   |  |
|                                                            | 66-13/16"  | Long Side  | 14         | 9  | 7 | 5  | 15  | 9  | 8 | 5  | 15      | 10 | 8 | 5  | 16      | 10 | 8 | 5  | 16  | 10 | 8 | 5  | 16  | 10 | 8 | 5  | 16  | 10 | 8 | 5  | 15  | 10 | 8  | 5  |         |   |   |  |
|                                                            |            | Short Side | 6          | 4  | 3 | 3  | 7   | 5  | 4 | 3  | 9       | 6  | 5 | 3  | 10      | 7  | 6 | 4  | 11  | 7  | 6 | 4  | 12  | 8  | 7 | 4  | 13  | 8  | 7 | 5  | 14  | 9  | 8  | 5  |         |   |   |  |
| 67-1/2"                                                    | Long Side  | 14         | 9          | 8  | 5 | 15 | 9   | 8  | 5 | 15 | 10      | 8  | 5 | 16 | 10      | 8  | 6 | 16 | 10  | 8  | 6 | 16 | 10  | 8  | 6 | 16 | 10  | 8  | 6 | 16 | 10  | 8  | 6  |    |         |   |   |  |
|                                                            | Short Side | 6          | 4          | 3  | 3 | 7  | 5   | 4  | 3 | 9  | 6       | 5  | 3 | 10 | 7       | 6  | 4 | 11 | 7   | 6  | 4 | 12 | 8   | 7  | 4 | 13 | 8   | 7  | 5 | 14 | 9   | 7  | 5  |    |         |   |   |  |
| 68"                                                        | Long Side  | 14         | 9          | 8  | 5 | 15 | 10  | 8  | 5 | 16 | 10      | 8  | 5 | 16 | 10      | 9  | 6 | 16 | 10  | 9  | 6 | 16 | 10  | 9  | 6 | 16 | 10  | 9  | 6 |    |     |    |    |    |         |   |   |  |
|                                                            | Short Side | 6          | 4          | 3  | 3 | 7  | 5   | 4  | 3 | 9  | 6       | 5  | 3 | 10 | 7       | 6  | 4 | 11 | 7   | 6  | 4 | 12 | 8   | 6  | 4 | 13 | 8   | 7  | 4 |    |     |    |    | 14 | 9       | 7 | 5 |  |
| 70"                                                        | Long Side  | 15         | 9          | 8  | 5 | 16 | 10  | 8  | 5 | 16 | 10      | 8  | 5 | 16 | 10      | 9  | 6 | 16 | 10  | 9  | 6 | 16 | 10  | 9  | 6 | 16 | 10  | 9  | 6 | 16 | 10  | 9  | 6  |    |         |   |   |  |
|                                                            | Short Side | 6          | 4          | 3  | 3 | 7  | 5   | 4  | 3 | 9  | 6       | 5  | 3 | 10 | 7       | 6  | 4 | 10 | 7   | 6  | 4 | 12 | 7   | 6  | 4 | 12 | 8   | 7  | 4 | 13 | 9   | 7  | 5  |    |         |   |   |  |
| 72"                                                        | Long Side  | 15         | 10         | 8  | 5 | 16 | 10  | 9  | 6 | 17 | 11      | 9  | 6 | 17 | 11      | 9  | 6 | 17 | 11  | 9  | 6 | 17 | 11  | 9  | 6 | 17 | 11  | 9  | 6 | 17 | 11  | 9  | 6  |    |         |   |   |  |
|                                                            | Short Side | 6          | 4          | 3  | 3 | 7  | 5   | 4  | 3 | 9  | 6       | 5  | 3 | 10 | 6       | 5  | 4 | 10 | 7   | 6  | 4 | 12 | 7   | 6  | 4 | 12 | 8   | 7  | 4 | 13 | 8   | 7  | 5  |    |         |   |   |  |
| 74"                                                        | Long Side  | 16         | 10         | 9  | 6 | 17 | 11  | 9  | 6 | 17 | 11      | 9  | 6 | 17 | 11      | 9  | 6 | 17 | 11  | 9  | 6 | 17 | 11  | 9  | 6 | 17 | 11  | 9  | 6 |    |     |    |    |    |         |   |   |  |
|                                                            | Short Side | 6          | 4          | 3  | 3 | 7  | 5   | 4  | 3 | 9  | 6       | 5  | 3 | 10 | 6       | 5  | 4 | 10 | 7   | 6  | 4 | 11 | 7   | 6  | 4 | 12 | 8   | 6  | 4 |    |     |    |    |    |         |   |   |  |
| 76"                                                        | Long Side  | 16         | 10         | 9  | 6 | 17 | 11  | 9  | 6 | 18 | 11      | 9  | 6 | 18 | 11      | 9  | 6 | 18 | 11  | 9  | 6 | 18 | 11  | 9  | 6 | 18 | 11  | 9  | 6 | 18 | 11  | 9  | 6  |    |         |   |   |  |
|                                                            | Short Side | 6          | 4          | 3  | 3 | 7  | 5   | 4  | 3 | 9  | 5       | 5  | 3 | 10 | 6       | 5  | 4 | 10 | 6   | 5  | 4 | 11 | 7   | 6  | 4 | 12 | 8   | 6  | 4 |    |     |    |    |    |         |   |   |  |
| 84"                                                        | Long Side  | 19         | 12         | 10 | 6 | 20 | 12  | 10 | 7 | 20 | 12      | 10 | 7 | 20 | 12      | 10 | 7 | 20 | 12  | 10 | 7 |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | Short Side | 6          | 4          | 3  | 3 | 7  | 5   | 4  | 3 | 8  | 5       | 4  | 3 | 9  | 6       | 5  | 3 | 10 | 6   | 5  | 3 |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
| 114"                                                       | Long Side  | 26         | 17         | 14 | 9 |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |
|                                                            | Short Side | 6          | 4          | 3  | 3 |    |     |    |   |    |         |    |   |    |         |    |   |    |     |    |   |    |     |    |   |    |     |    |   |    |     |    |    |    |         |   |   |  |

1) USE THIS TABLE FOR ALL WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE TIP-TO-TIP.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG SIDE DIMENSION SHOWN ON THE TABLE.

3) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN:



EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW; 3/16" TEMPERED GLASS, 1/4" MASONRY ANCHORS INTO CONCRETE, +/- 65 PSF DP REQUIRED

CASEMENT ANCHORS (**SEE SEPERATE NOA**):

A) FROM TABLE 12, ANCHORS C & D ALLOW A DP OF +70/-90.

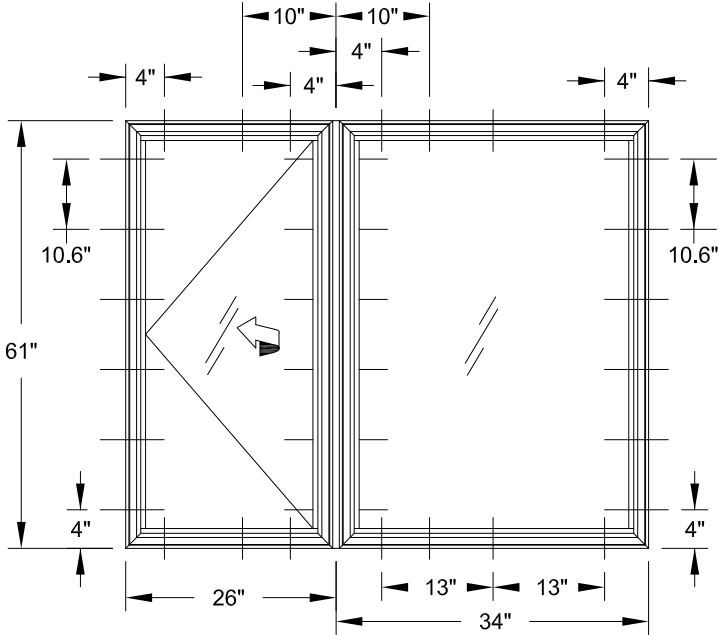
B) FOR THE JAMB, FROM TABLE 3, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETEFLEX ANCHOR.

C) FROM TABLE 2, 6 ANCHORS ARE REQUIRED IN EACH JAMB.

D) SIMILARLY, 2 ANCHORS ARE REQUIRED IN THE HEAD & SILL.

E) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.

F) PER RULES ON SHEETS 2 & 3, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE AWNING (HEAD & SILL).



CASEMENT PICTURE WINDOW ANCHORS:

A) FROM TABLE 11, A 34" X 61" CASEMENT PICTURE WINDOW HAS A DESIGN PRESSURE OF +70/-90 USING ANY ANCHOR FROM GROUPS A, B, C OR D.

B) FOR THE JAMB, FROM TABLE 3, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETEFLEX ANCHOR.

C) FROM TABLE 2A, 6 ANCHORS ARE REQUIRED IN EACH JAMB.

D) SIMILARLY, 3 ANCHORS ARE REQUIRED IN THE HEAD & SILL.

E) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.

F) PER RULES ON SHEET 2, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE CASEMENT PICTURE (HEAD & SILL).

**PRODUCT REVISED**  
As complying with the Florida Building Code  
**NOA-No. 23-0816.07**  
**Expiration Date: 04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

Revision: F) NO CHANGES, THIS SHEET.  
SB - 7/31/23

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

REGISTRATION #29296

08/08/12

J. ROSOWSKI

MD-PW640-NI

5 OF 10

PW-640

CASEMENT PICTURE WINDOW DETAILS-NI

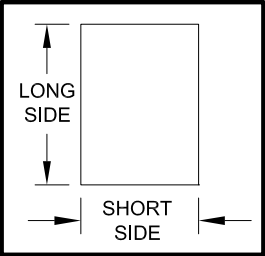
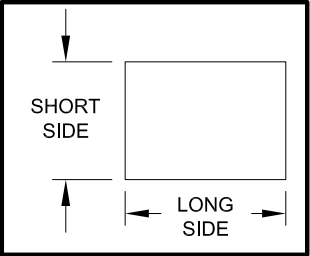
ANCHOR TYPE & QUANTITY

Series Desc. Title

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
07/13/23  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705

TABLE 4:

| <div><div></div></div> |           | Design Pressure (psf) for Single Windows, All Anchor Groups |           |          |          |          |          |          |
|------------------------|-----------|-------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|
|                        |           | Short Side                                                  |           |          |          |          |          |          |
|                        |           | under 23"                                                   | 25-15/16" | 27-3/4"  | 33-1/2"  | 37"      | 44"      | 48-1/4"  |
| Long Side              | under 23" | +/- 79.6                                                    |           |          |          |          |          |          |
|                        | 25-15/16" | +/- 71.5                                                    | +/- 70.5  |          |          |          |          |          |
|                        | 37"       | +/- 57.7                                                    | +/- 54.3  | +/- 52.7 | +/- 49.9 | +/- 49.4 |          |          |
|                        | 44"       | +/- 53.9                                                    | +/- 50    | +/- 48.1 | +/- 44.1 | +/- 42.7 | +/- 41.6 |          |
|                        | 48-1/4"   | +/- 52.2                                                    | +/- 48.2  | +/- 46.3 | +/- 41.8 | +/- 40.1 | +/- 38.2 | +/- 35.2 |
|                        | 53-1/8"   | +/- 49.9                                                    | +/- 43.8  | +/- 42.9 | +/- 39.9 | +/- 38   |          |          |
|                        | 58"       | +/- 46.9                                                    | +/- 39.4  | +/- 38.1 | +/- 37.9 | +/- 36.3 |          |          |
|                        | 63"       | +/- 44.5                                                    | +/- 36.2  | +/- 33.8 | +/- 33.6 | +/- 33.2 |          |          |
|                        | 76"       | +/- 40.7                                                    | +/- 30.8  | +/- 27.4 |          |          |          |          |
|                        | 84"       | +/- 39.4                                                    | +/- 29.3  | +/- 25.5 |          |          |          |          |



1) SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.  
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

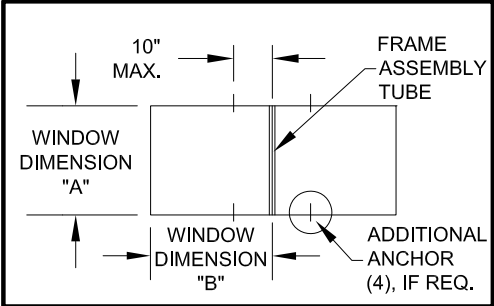
FOR GLASS TYPES:

- 1) 1/8" Annealed
- 2) 1/8" Tempered

TABLE 5:

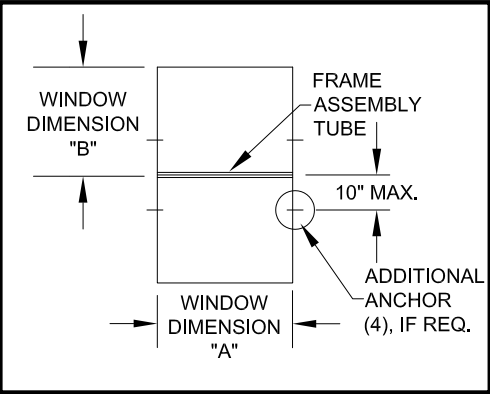
| <div><div></div><div></div></div> |              | Design Pressure (psf) for Windows Attached to a Frame Assembly Tube |              |              |              |              |              |              |              |              |              |
|-----------------------------------|--------------|---------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                   |              | Window Dimension "A"                                                |              |              |              |              |              |              |              |              |              |
|                                   |              | under 23"                                                           | 25-15/16"    | 27-3/4"      | 33-1/2"      | 37"          | 44"          | 48-1/4"      | 53-1/8"      | 58"          | 63"          |
| Window Dimension "B"              | Anchor Group | Anchor Group                                                        | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group |
|                                   | All          | All                                                                 | All          | All          | All          | All          | All          | All          | All          | All          | All          |
|                                   | under 23"    | +70/-79.6                                                           | +70/-71.5    | +/-67.9      | +/-60.6      | +/-57.7      | +/-53.9      | +/-52.2      | +/-49.9      | +/-46.9      | +/-44.5      |
|                                   | 25-15/16"    | +70/-71.5                                                           | +70/-70.5    | +/-66.2      | +/-57.6      | +/-54.3      | +/-50        | +/-48.2      | +/-43.8      | +/-39.4      | +/-36.2      |
|                                   | 37"          | +/-57.7                                                             | +/-54.3      | +/-52.7      | +/-49.9      | +/-49.4      | +/-42.7      | +/-40.1      | +/-38        | +/-36.3      | +/-33.2      |
|                                   | 44"          | +/-53.9                                                             | +/-50        | +/-48.1      | +/-44.1      | +/-42.7      | +/-41.6      | +/-38.2      |              |              |              |
|                                   | 48-1/4"      | +/-52.2                                                             | +/-48.2      | +/-46.3      | +/-41.8      | +/-40.1      | +/-38.2      | +/-35.2      |              |              |              |
|                                   | 53-1/8"      | +/-49.9                                                             | +/-43.8      | +/-42.9      | +/-39.9      | +/-38        |              |              |              |              |              |
|                                   | 58"          | +/-46.9                                                             | +/-39.4      | +/-38.1      | +/-37.9      | +/-36.3      |              |              |              |              |              |
|                                   | 63"          | +/-44.5                                                             | +/-36.2      | +/-33.8      | +/-33.6      | +/-33.2      |              |              |              |              |              |
|                                   | 76"          | +/-40.7                                                             | +/-30.8      | +/-27.4      |              |              |              |              |              |              |              |
|                                   | 84"          | +/-39.4                                                             | +/-29.3      | +/-25.5      |              |              |              |              |              |              |              |

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE

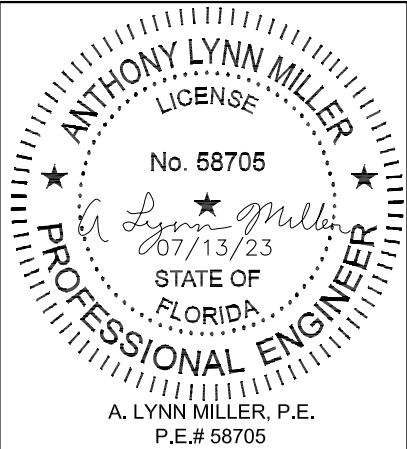


SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

**PRODUCT REVISED**  
As complying with the Florida Building Code  
**NOA-No. 23-0816.07**  
**Expiration Date: 04/11/2028**  
**By:** *Manuel Perez*  
**Miami-Dade Product Control**

Revision:  
F) NO CHANGES, THIS SHEET.  
SB - 7/31/23

|                                                                                                                                |  |                     |  |             |             |   |      |
|--------------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|-------------|-------------|---|------|
| <div>PGT</div> <div>Custom Windows and Doors</div> <div>1070 TECHNOLOGY DRIVE<br/>N. VENICE, FL 34275<br/>(941) 480-1600</div> |  | REGISTRATION #29296 |  |             | 08/08/12    |   | Rev. |
|                                                                                                                                |  |                     |  |             | Date        |   |      |
|                                                                                                                                |  |                     |  |             | By          |   |      |
|                                                                                                                                |  |                     |  |             | J. ROSOWSKI |   |      |
| CASEMENT PICTURE WINDOW DETAILS-NI                                                                                             |  | Dwg No.             |  | MD-PW640-NI |             | F |      |
| DESIGN PRESSURES PER<br>GLAZING TYPE                                                                                           |  | 6 OF 10             |  |             |             |   |      |
| PW-640                                                                                                                         |  | Sheet               |  |             |             |   |      |
| Series                                                                                                                         |  | Title               |  |             |             |   |      |

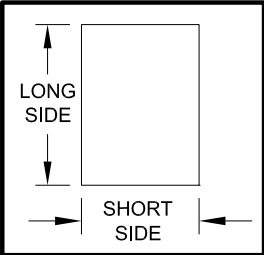
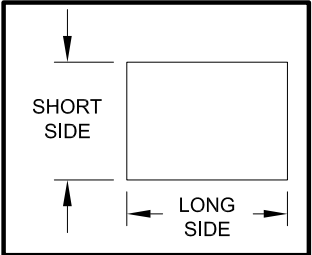


FOR GLASS TYPES:

- 3) 3/16" Annealed
- 5) 1/4" Annealed
- 7) 9/16" IG: (1/8" An - 5/16" Air - 1/8" An)
- 8) 9/16" IG: (1/8" T - 5/16" Air - 1/8" T)

TABLE 6:

| <div><div></div></div> |           | Design Pressure (psf) for Single Windows, All Anchor Groups |           |          |          |          |          |          |          |          |          |
|------------------------|-----------|-------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                        |           | Short Side                                                  |           |          |          |          |          |          |          |          |          |
|                        |           | under 23"                                                   | 25-15/16" | 27-3/4"  | 33-1/2"  | 37"      | 44"      | 48-1/4"  | 53-1/8"  | 58"      | 63"      |
| Long Side              | under 23" | +90/-112.1                                                  |           |          |          |          |          |          |          |          |          |
|                        | 25-15/16" | +90/-100.7                                                  | +90/-99.4 |          |          |          |          |          |          |          |          |
|                        | 37"       | +/- 81.3                                                    | +/- 76.5  | +/- 74.3 | +/- 70.3 | +/- 69.7 | +/- 60.1 | +/- 56.5 | +/- 53.5 | +/- 51.1 | +/- 49.3 |
|                        | 44"       | +/- 75.9                                                    | +/- 70.4  | +/- 67.8 | +/- 62.1 | +/- 60.1 | +/- 58.6 | +/- 53.8 | +/- 44.5 | +/- 41.9 | +/- 40   |
|                        | 48-1/4"   | +/- 73.6                                                    | +/- 67.9  | +/- 65.2 | +/- 58.9 | +/- 56.5 | +/- 53.8 | +/- 53.4 | +/- 43.5 | +/- 40.6 |          |
|                        | 53-1/8"   | +/- 71.6                                                    | +/- 65.8  | +/- 62.9 | +/- 56.2 | +/- 53.5 | +/- 44.5 | +/- 43.5 | +/- 43.2 |          |          |
|                        | 58"       | +/- 69.9                                                    | +/- 64    | +/- 61   | +/- 54.1 | +/- 51.1 | +/- 41.9 | +/- 40.6 |          |          |          |
|                        | 63"       | +/- 68.6                                                    | +/- 62.6  | +/- 59.6 | +/- 52.4 | +/- 49.3 | +/- 40   |          |          |          |          |
|                        | 76"       | +/- 66                                                      | +/- 55.4  | +/- 49.3 | +/- 43.1 | +/- 39.4 |          |          |          |          |          |
|                        | 84"       | +/- 64.9                                                    | +/- 52.7  | +/- 45.8 | +/- 37.8 |          |          |          |          |          |          |

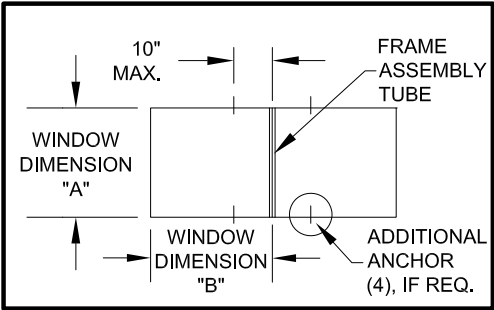


- 1) SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
- 2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 7:

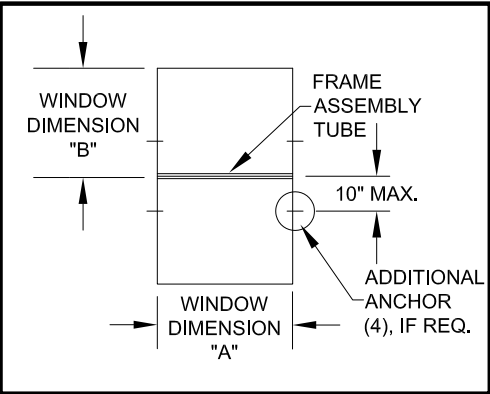
| <div><div></div><div></div></div> |           | Design Pressure (psf) for Windows Attached to a Frame Assembly Tube |              |              |              |              |           |           |              |           |           |              |         |           |           |              |         |         |           |              |         |         |         |              |         |         |         |
|-----------------------------------|-----------|---------------------------------------------------------------------|--------------|--------------|--------------|--------------|-----------|-----------|--------------|-----------|-----------|--------------|---------|-----------|-----------|--------------|---------|---------|-----------|--------------|---------|---------|---------|--------------|---------|---------|---------|
|                                   |           | Window Dimension "A"                                                |              |              |              |              |           |           |              |           |           |              |         |           |           |              |         |         |           |              |         |         |         |              |         |         |         |
|                                   |           | under 23"                                                           | 25-15/16"    | 27-3/4"      | 33-1/2"      | 37"          |           |           | 44"          |           |           | 48-1/4"      |         |           |           | 53-1/8"      |         |         |           | 58"          |         |         |         | 63"          |         |         |         |
| Window Dimension "B"              |           | Anchor Group                                                        | Anchor Group | Anchor Group | Anchor Group | Anchor Group |           |           | Anchor Group |           |           | Anchor Group |         |           |           | Anchor Group |         |         |           | Anchor Group |         |         |         | Anchor Group |         |         |         |
|                                   |           | All                                                                 | All          | All          | All          | A            | B         | C & D     | A            | B         | C & D     | A            | B       | C         | D         | A            | B       | C       | D         | A            | B       | C       | D       | A            | B       | C       | D       |
|                                   | under 23" | +70/-90                                                             | +70/-90      | +70/-90      | +70/-85.4    | +70/-81.3    | +70/-79.2 | +70/-81.3 | +70/-75.9    | +/-66.6   | +70/-75.9 | +70/-73.6    | +/-60.7 | +70/-72.7 | +70/-73.6 | +/-69        | +/-55.3 | +/-66.1 | +70/-71.6 | +/-63.1      | +/-50.5 | +/-60.5 | +/-69.9 | +/-58.1      | +/-46.5 | +/-55.7 | +/-68.6 |
|                                   | 25-15/16" | +70/-90                                                             | +70/-90      | +70/-90      | +70/-81.1    | +70/-76.5    | +70/-76.5 | +70/-76.5 | +70/-70.4    | +70/-70.4 | +70/-70.4 | +/-67.1      | +/-67.9 | +/-67.9   | +/-67.9   | +/-61.1      | +/-65.8 | +/-65.8 | +/-65.8   | +/-55.9      | +/-64   | +/-64   | +/-64   | +/-51.5      | +/-62.6 | +/-62.6 | +/-62.6 |
|                                   | 37"       | +70/-81.3                                                           | +70/-76.5    | +70/-74.3    | +70/-70.3    | +/-69.7      | +/-69.7   | +/-69.7   | +/-60.1      | +/-60.1   | +/-60.1   | +/-56.5      | +/-56.5 | +/-56.5   | +/-56.5   | +/-53.5      | +/-53.5 | +/-53.5 | +/-53.5   | +/-49        | +/-51.1 | +/-51.1 | +/-51.1 | +/-45.1      | +/-49.3 | +/-49.3 | +/-49.3 |
|                                   | 44"       | +70/-75.9                                                           | +70/-70.4    | +/-67.8      | +/-62.1      | +/-60.1      | +/-60.1   | +/-60.1   | +/-54.3      | +/-58.6   | +/-58.6   | +/-49.5      | +/-53.8 | +/-53.8   | +/-53.8   | +/-45.1      | +/-50   | +/-50   | +/-50     | +/-41.2      | +/-47.2 | +/-47.2 | +/-47.2 | +/-37.9      | +/-45   | +/-45   | +/-45   |
|                                   | 48-1/4"   | +70/-73.6                                                           | +/-67.9      | +/-65.2      | +/-58.9      | +/-56.5      | +/-56.5   | +/-56.5   | +/-49.5      | +/-53.8   | +/-53.8   | +/-45.1      | +/-53.4 | +/-53.4   | +/-53.4   | +/-41.1      | +/-49   | +/-49   | +/-49     | +/-37.5      | +/-45.7 | +/-45.7 | +/-45.7 |              |         |         |         |
|                                   | 53-1/8"   | +70/-71.6                                                           | +/-65.8      | +/-62.9      | +/-56.2      | +/-53.5      | +/-53.5   | +/-53.5   | +/-50        | +/-50     | +/-50     | +/-49        | +/-49   | +/-49     | +/-49     | +/-44.9      | +/-48.6 | +/-48.6 | +/-48.6   |              |         |         |         |              |         |         |         |
|                                   | 58"       | +/-69.9                                                             | +/-64        | +/-61        | +/-54.1      | +/-51.1      | +/-51.1   | +/-51.1   | +/-47.2      | +/-47.2   | +/-47.2   | +/-45        | +/-45.7 | +/-45.7   | +/-45.7   |              |         |         |           |              |         |         |         |              |         |         |         |
|                                   | 63"       | +/-68.6                                                             | +/-62.6      | +/-59.6      | +/-52.4      | +/-49.3      | +/-49.3   | +/-49.3   | +/-45        | +/-45     | +/-45     |              |         |           |           |              |         |         |           |              |         |         |         |              |         |         |         |
|                                   | 76"       | +/-66                                                               | +/-55.4      | +/-49.3      | +/-43.1      | +/-39.4      | +/-39.4   | +/-39.4   |              |           |           |              |         |           |           |              |         |         |           |              |         |         |         |              |         |         |         |
|                                   | 84"       | +/-64.9                                                             | +/-52.7      | +/-45.8      | +/-37.8      |              |           |           |              |           |           |              |         |           |           |              |         |         |           |              |         |         |         |              |         |         |         |

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-0816.07**  
Expiration Date: **04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

Revision:  
F) NO CHANGES, THIS SHEET.  
SB - 7/31/23

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

**PGT**  
Custom Windows and Doors  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

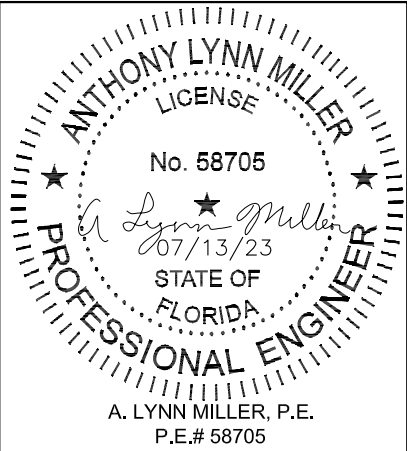
CASEMENT PICTURE WINDOW DETAILS-NI  
DESIGN PRESSURES PER  
GLAZING TYPE  
PW-640

REGISTRATION #29296

08/08/12  
Date  
J. ROSOWSKI  
By  
MD-PW640-NI  
F  
Rev

7 OF 10  
DWG  
No.

PW-640  
Sheet  
Title

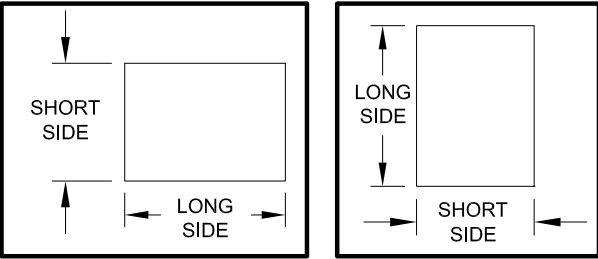




FOR GLASS TYPES:  
9) 7/8" IG: (3/16" An - 1/2" Air - 3/16" An)

TABLE 8:

|           |           | Design Pressure (psf) for Single Windows, All Anchor Groups |            |          |          |          |          |          |          |          |           |
|-----------|-----------|-------------------------------------------------------------|------------|----------|----------|----------|----------|----------|----------|----------|-----------|
|           |           | Short Side                                                  |            |          |          |          |          |          |          |          |           |
|           |           | under 23"                                                   | 25-15/16"  | 36"      | 48"      | 53-1/8"  | 58"      | 60"      | 63"      | 65"      | 66-13/16" |
| Long Side | under 23" | +90/-150                                                    |            |          |          |          |          |          |          |          |           |
|           | 25-15/16" | +90/-150                                                    | +90/-150   |          |          |          |          |          |          |          |           |
|           | 35"       | +90/-141.2                                                  | +90/-133.5 |          |          |          |          |          |          |          |           |
|           | 63"       | +90/-116                                                    | +90/-105.8 | +/- 84.8 | +/- 73.4 | +/- 70.9 | +/- 69.6 | +/- 69.4 | +/- 69   |          |           |
|           | 66-13/16" | +90/-114.5                                                  | +90/-104.3 | +/- 82.9 | +/- 70.9 | +/- 68.1 | +/- 66.4 | +/- 65.9 | +/- 65.2 | +/- 63.5 | +/- 62    |
|           | 68"       | +90/-114.1                                                  | +90/-103.8 | +/- 82.4 | +/- 70.2 | +/- 67.3 | +/- 65.5 | +/- 65   | +/- 64.2 | +/- 62.4 |           |
|           | 70"       | +90/-113.4                                                  | +90/-103.2 | +/- 79.9 | +/- 69.1 | +/- 66.1 | +/- 64.2 | +/- 63.6 | +/- 62.4 |          |           |
|           | 74"       | +90/-112.3                                                  | +90/-101.9 | +/- 73.9 | +/- 67.2 | +/- 64   | +/- 61.8 | +/- 61.1 |          |          |           |
|           | 76"       | +90/-111.7                                                  | +90/-101.3 | +/- 72.1 | +/- 66.4 | +/- 63.1 | +/- 60.8 |          |          |          |           |
|           | 84"       | +90/-109.9                                                  | +90/-99.4  | +/- 65.5 | +/- 58.9 | +/- 57.7 |          |          |          |          |           |

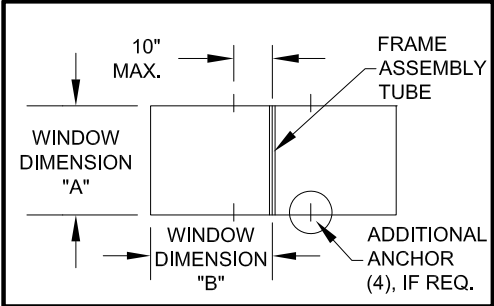


1) SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.  
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 9:

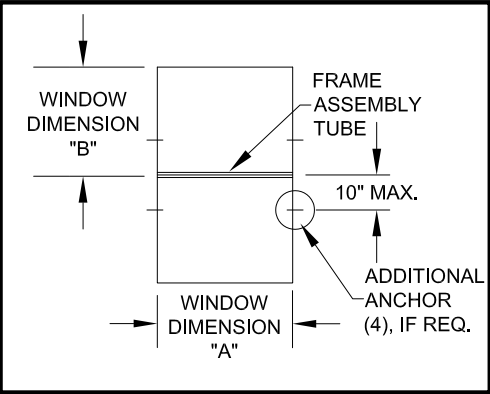
| <div><div></div><div></div><div></div></div> |           | Design Pressure (psf) for Windows Attached to a Frame Assembly Tube |              |              |           |           |              |           |           |           |              |           |           |           |              |           |           |           |              |           |           |           |              |           |           |           |  |
|----------------------------------------------|-----------|---------------------------------------------------------------------|--------------|--------------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--|
|                                              |           | Window Dimension "A"                                                |              |              |           |           |              |           |           |           |              |           |           |           |              |           |           |           |              |           |           |           |              |           |           |           |  |
|                                              |           | under 23"                                                           | 25-15/16"    | 36"          |           |           | 48"          |           |           |           | 53-1/8"      |           |           |           | 58"          |           |           |           | 60"          |           |           |           | 63"          |           |           |           |  |
|                                              |           | Anchor Group                                                        | Anchor Group | Anchor Group |           |           | Anchor Group |           |           |           | Anchor Group |           |           |           | Anchor Group |           |           |           | Anchor Group |           |           |           | Anchor Group |           |           |           |  |
|                                              |           | All                                                                 | All          | A            | B         | C & D     | A            | B         | C         | D         | A            | B         | C         | D         | A            | B         | C         | D         | A            | B         | C         | D         | A            | B         | C         | D         |  |
| Window Dimension "B"                         | under 23" | +70/-90                                                             | +70/-90      | +70/-90      | +70/-81.4 | +70/-90   | +70/-76.2    | +/-61.1   | +70/-73.1 | +70/-90   | +/-68.8      | +/-55.2   | +/-66     | +70/-90   | +/-63.1      | +/-50.5   | +/-60.5   | +70/-90   | +/-61        | +/-48.9   | +/-58.5   | +70/-90   | +/-58.1      | +/-46.5   | +/-55.7   | +70/-88.7 |  |
|                                              | 25-15/16" | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90   | +70/-90   | +/-67.5      | +70/-90   | +70/-90   | +70/-90   | +/-61        | +70/-90   | +70/-90   | +70/-90   | +/-55.9      | +70/-89.6 | +70/-90   | +70/-90   | +/-54        | +70/-86.6 | +70/-90   | +70/-90   | +/-51.5      | +70/-82.5 | +70/-90   | +70/-90   |  |
|                                              | 35"       | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90   | +70/-90   | +/-62.6      | +70/-90   | +70/-90   | +70/-90   | +/-56.5      | +70/-90   | +70/-90   | +70/-90   | +/-51.8      | +70/-83   | +70/-89.2 | +70/-89.2 | +/-50.1      | +70/-80.2 | +70/-87.9 | +70/-87.9 | +/-47.7      | +70/-76.4 | +70/-86.2 | +70/-86.2 |  |
|                                              | 63"       | +70/-90                                                             | +70/-90      | +70/-83.4    | +70/-84.8 | +70/-84.8 | +/-62.6      | +70/-73.4 | +70/-73.4 | +70/-73.4 | +/-56.5      | +70/-70.5 | +70/-70.9 | +70/-70.9 | +/-51.8      | +/-64.6   | +/-66.2   | +/-69.6   | +/-50.1      | +/-62.4   | +/-64     | +/-69.4   | +/-47.7      | +/-59.4   | +/-61     | +/-69     |  |
|                                              | 66-13/16" | +70/-90                                                             | +70/-90      | +70/-78.7    | +70/-82.9 | +70/-82.9 | +/-59        | +70/-70.9 | +70/-70.9 | +70/-70.9 | +/-53.3      | +/-66.4   | +/-68.1   | +/-68.1   | +/-48.8      | +/-60.9   | +/-66.4   | +/-66.4   | +/-47.2      | +/-58.8   | +/-65.9   | +/-65.9   | +/-45        | +/-56     | +/-65.2   | +/-65.2   |  |
|                                              | 68"       | +70/-90                                                             | +70/-90      | +70/-82.4    | +70/-82.4 | +70/-82.4 | +/-64.4      | +70/-70.2 | +70/-70.2 | +70/-70.2 | +/-58.2      | +/-65.3   | +/-67.3   | +/-67.3   | +/-53.3      | +/-59.8   | +/-65.5   | +/-65.5   | +/-51.5      | +/-57.8   | +/-65     | +/-65     | +/-49.1      | +/-55.1   | +/-64.2   | +/-64.2   |  |
|                                              | 70"       | +70/-90                                                             | +70/-90      | +70/-79.9    | +70/-79.9 | +70/-79.9 | +/-62.6      | +/-69.1   | +/-69.1   | +/-69.1   | +/-56.5      | +/-63.4   | +/-66.1   | +/-66.1   | +/-51.8      | +/-58.1   | +/-64.2   | +/-64.2   | +/-50.1      | +/-56.2   | +/-63.6   | +/-63.6   | +/-47.7      | +/-53.5   | +/-62.4   | +/-62.4   |  |
|                                              | 74"       | +70/-90                                                             | +70/-90      | +70/-73.9    | +70/-73.9 | +70/-73.9 | +/-59.2      | +/-66.4   | +/-67.2   | +/-67.2   | +/-53.5      | +/-60     | +/-64     | +/-64     | +/-49        | +/-55     | +/-61.8   | +/-61.8   | +/-47.4      | +/-53.1   | +/-61.1   | +/-61.1   |              |           |           |           |  |
|                                              | 76"       | +70/-90                                                             | +70/-90      | +70/-72.1    | +70/-72.1 | +70/-72.1 | +/-57.6      | +/-64.7   | +/-66.4   | +/-66.4   | +/-52.1      | +/-58.4   | +/-63.1   | +/-63.1   | +/-47.7      | +/-53.5   | +/-60.8   | +/-60.8   |              |           |           |           |              |           |           |           |  |
| 84"                                          | +70/-90   | +70/-90                                                             | +/-65.5      | +/-65.5      | +/-65.5   | +/-57.4   | +/-58.9      | +/-58.9   | +/-58.9   | +/-51.8   | +/-57.7      | +/-57.7   | +/-57.7   |           |              |           |           |           |              |           |           |           |              |           |           |           |  |

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-0816.07**  
Expiration Date: **04/11/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

Revision:

F) NO CHANGES, THIS SHEET.  
SB - 7/31/23

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

REGISTRATION #29296

08/08/12

J. ROSOWSKI

MD-PW640-NI

8 OF 10

PW-640

CASEMENT PICTURE WINDOW DETAILS-NI

DESIGN PRESSURES PER GLAZING TYPE

PW-640

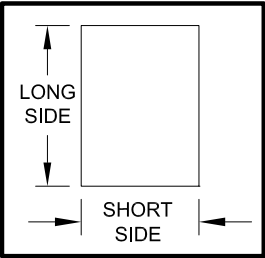
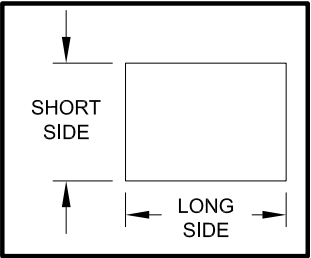
PGT  
Custom Windows and Doors  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
07/13/23  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705

FOR GLASS TYPES:  
4) 3/16" T  
6) 1/4" T  
10) 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)

TABLE 10:

|           |           | Design Pressure (psf) for Single Windows, All Anchor Groups |           |          |          |            |            |            |            |            |            |
|-----------|-----------|-------------------------------------------------------------|-----------|----------|----------|------------|------------|------------|------------|------------|------------|
|           |           | Short Side                                                  |           |          |          |            |            |            |            |            |            |
|           |           | under 23"                                                   | 25-15/16" | 29"      | 31-1/2"  | 34"        | 40"        | 54"        | 60"        | 63"        | 67-1/2"    |
| Long Side | under 23" | +90/-150                                                    |           |          |          |            |            |            |            |            |            |
|           | 25-15/16" | +90/-150                                                    | +90/-150  |          |          |            |            |            |            |            |            |
|           | 63"       | +90/-150                                                    | +90/-150  | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-150   | +90/-150   | +90/-150   |            |
|           | 67-1/2"   | +90/-150                                                    | +90/-150  | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-147   | +90/-142.9 | +90/-141.7 | +90/-134.5 |
|           | 72"       | +90/-150                                                    | +90/-150  | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-141.1 | +90/-136.1 | +90/-134.4 |            |
|           | 76"       | +90/-150                                                    | +90/-150  | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-136.8 | +90/-131.2 |            |            |
|           | 84"       | +90/-150                                                    | +90/-150  | +90/-150 | +90/-150 | +90/-150   | +90/-133.4 | +90/-127.2 |            |            |            |
|           | 114"      | +90/-150                                                    | +90/-150  | +90/-150 | +90/-150 | +90/-131.9 | +90/-96.6  |            |            |            |            |
|           | 134"      | +90/-150                                                    | +90/-150  | +90/-150 | +90/-150 | +90/-124.1 |            |            |            |            |            |
|           | 145"      | +90/-150                                                    | +90/-150  | +90/-150 | +90/-149 |            |            |            |            |            |            |

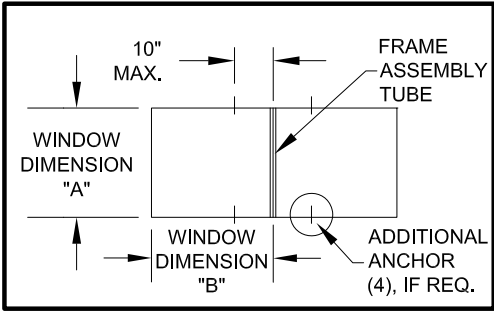


1) SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.  
2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 11:

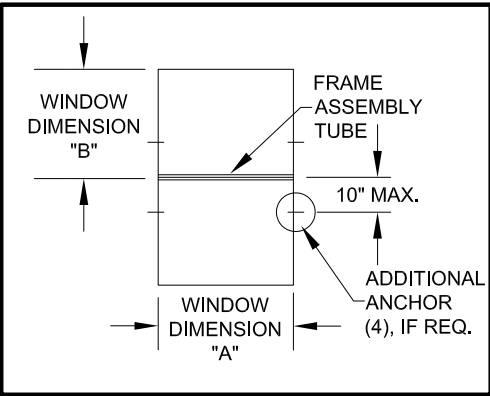
|  |           | Design Pressure (psf) for Windows Attached to a Frame Assembly Tube |              |              |              |              |           |         |              |           |           |         |              |         |         |         |              |           |         |         |              |           |         |           |
|-----------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------|--------------|--------------|--------------|--------------|-----------|---------|--------------|-----------|-----------|---------|--------------|---------|---------|---------|--------------|-----------|---------|---------|--------------|-----------|---------|-----------|
|                                                                                   |           | Window Dimension "A"                                                |              |              |              |              |           |         |              |           |           |         |              |         |         |         |              |           |         |         |              |           |         |           |
|                                                                                   |           | under 23"                                                           | 25-15/16"    | 29"          | 31-1/2"      | 34"          |           |         | 40"          |           |           |         | 54"          |         |         |         | 60"          |           |         |         | 63"          |           |         |           |
|                                                                                   |           | Anchor Group                                                        | Anchor Group | Anchor Group | Anchor Group | Anchor Group |           |         | Anchor Group |           |           |         | Anchor Group |         |         |         | Anchor Group |           |         |         | Anchor Group |           |         |           |
|                                                                                   |           | All                                                                 | All          | All          | All          | A            | B         | C & D   | A            | B         | C         | D       | A            | B       | C       | D       | A            | B         | C       | D       | A            | B         | C       | D         |
| Window Dimension "B"                                                              | under 23" | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-86.2 | +70/-90 | +70/-90      | +70/-73.3 | +70/-87.7 | +70/-90 | +/-67.7      | +/-54.3 | +/-65   | +70/-90 | +/-61        | +/-48.9   | +/-58.5 | +70/-90 | +/-58.1      | +/-46.5   | +/-55.7 | +70/-88.7 |
|                                                                                   | 25-15/16" | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-75.1    | +70/-90 | +70/-90 | +70/-90 | +/-67.5      | +70/-86.6 | +70/-90 | +70/-90 | +/-64.3      | +70/-82.5 | +70/-90 | +70/-90   |
|                                                                                   | 63"       | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90 | +70/-90 | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90   |
|                                                                                   | 67-1/2"   | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90 | +70/-90 | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90 | +70/-89      | +70/-90   | +70/-90 | +70/-90   |
|                                                                                   | 72"       | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90 | +70/-90 | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90 | +70/-88.1    | +70/-90   | +70/-90 | +70/-90   |
|                                                                                   | 76"       | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90 | +70/-90 | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90 |              |           |         |           |
|                                                                                   | 84"       | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90 | +70/-90 | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90 |              |           |         |           |
|                                                                                   | 114"      | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 |              |         |         |         |              |           |         |         |              |           |         |           |
|                                                                                   | 134"      | +70/-90                                                             | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 |              |           |           |         |              |         |         |         |              |           |         |         |              |           |         |           |
| 145"                                                                              | +70/-90   | +70/-90                                                             | +70/-90      | +70/-90      |              |              |           |         |              |           |           |         |              |         |         |         |              |           |         |         |              |           |         |           |

FIGURE FOR VERTICAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

PGT

Custom Windows and Doors

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

CASEMENT PICTURE WINDOW DETAILS-NI

DESIGN PRESSURES PER  
GLAZING TYPE

PW-640

REGISTRATION #29296

08/08/12

J. ROSOWSKI

MD-PW640-NI

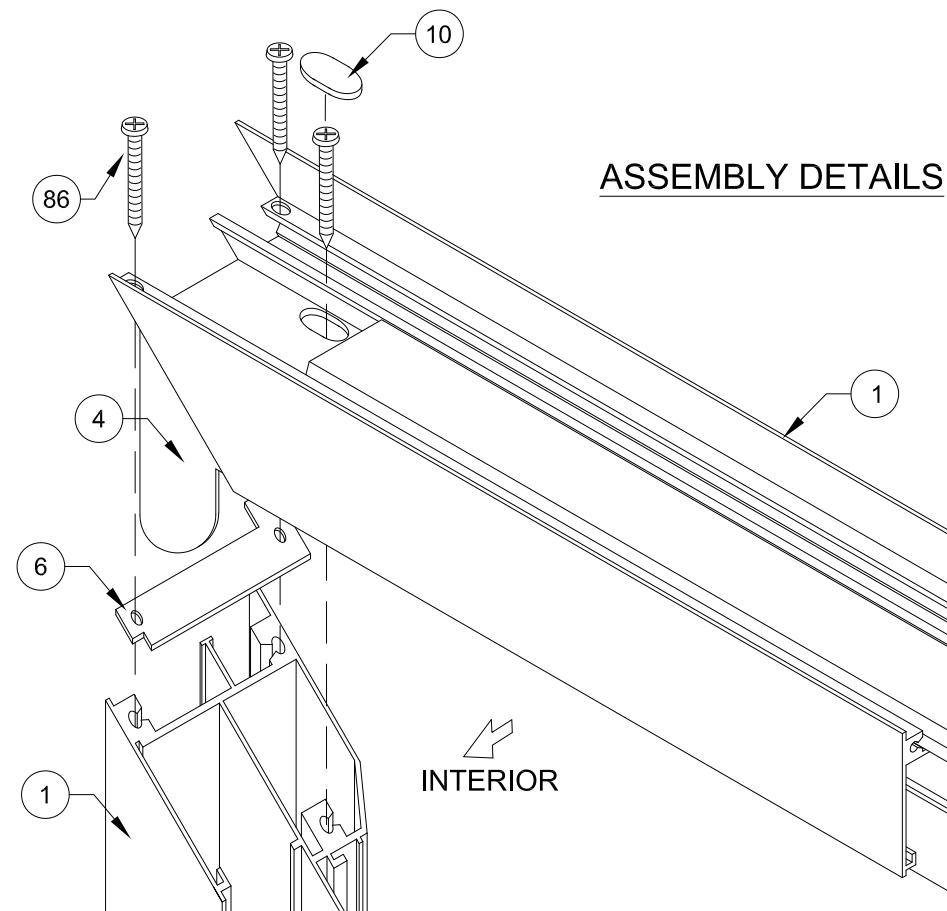
9 OF 10

PW-640

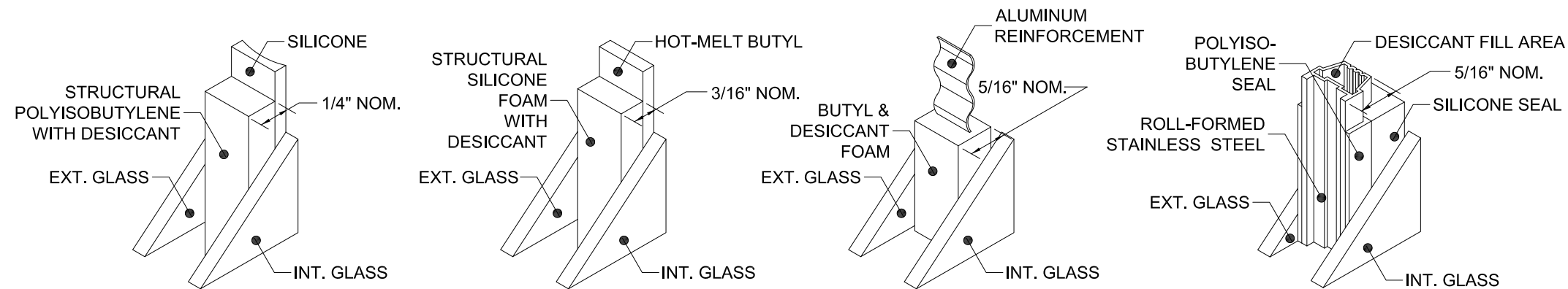
PRODUCT REVISED  
As complying with the Florida  
Building Code  
NOA-No. **23-0816.07**  
Expiration Date: **04/11/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

Revision:  
F) NO CHANGES,  
THIS SHEET.  
SB - 7/31/23

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
07/13/23  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705



ASSEMBLY DETAILS



75 KODISPACE 4SG TPS

76 SUPER SPACER NXT

77 DURASEAL SPACER

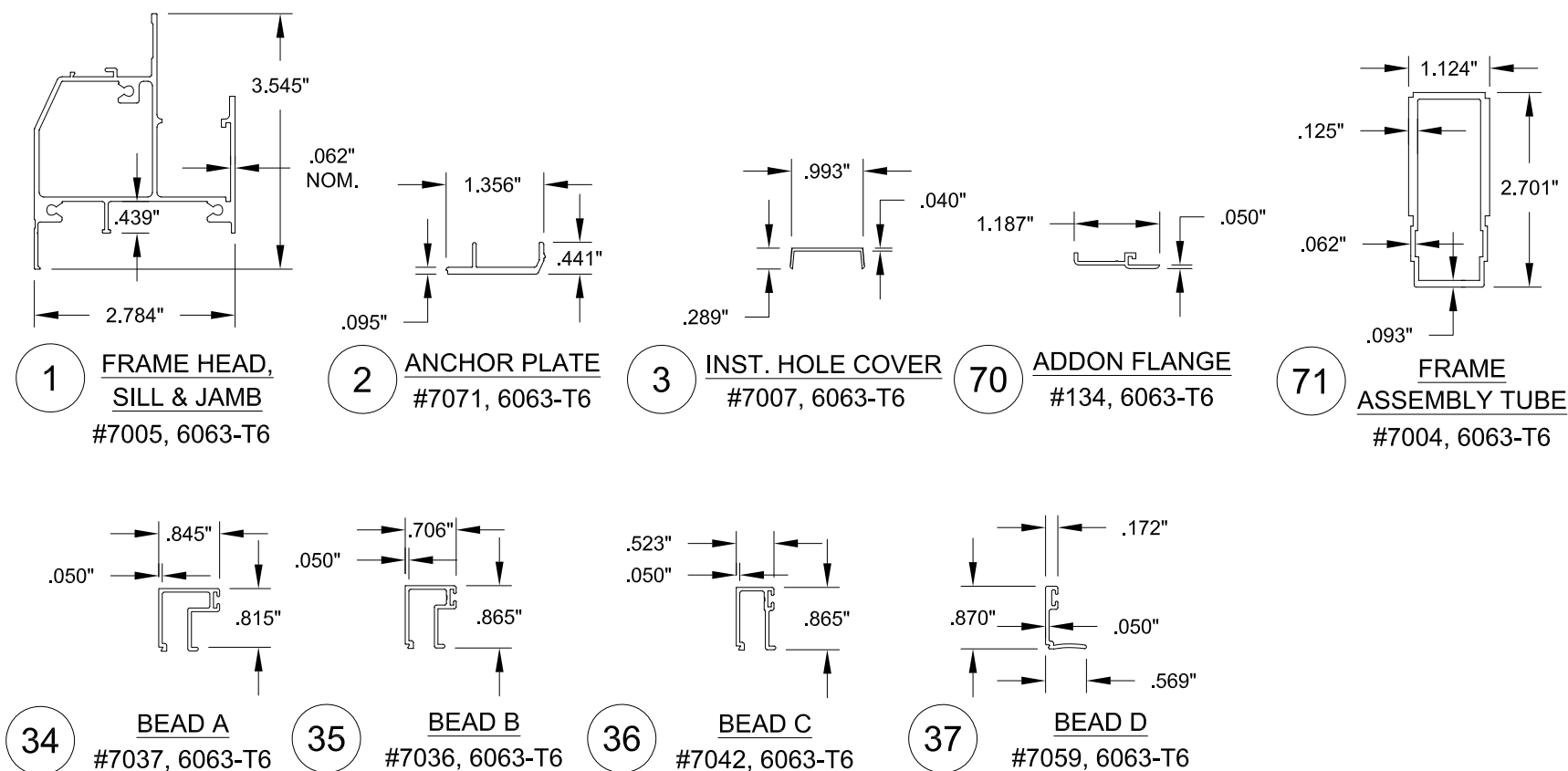
78 XL EDGE SPACER

TABLE 12:

| Item | Dwg. # | Description                              | Mat.            |
|------|--------|------------------------------------------|-----------------|
| 1    | 7005   | Main Frame Head, Sill & Jamb             | 6063-T6 Alum.   |
| 2    | 7071   | Anchor Plate                             | 6063-T6 Alum.   |
| 3    | 7007   | Installation Hole Cover                  | 6063-T6 Alum.   |
| 4    | 7010   | Frame Corner Key                         | Steel           |
| 6    | 7078   | Frame Gasket                             | Vinyl Foam      |
| 10   | 7055   | Fixed Frame Hole Plug                    | PVC             |
| 32   | 1713   | Setting Block 5/32" x 3/16" x 1-1/4"     | EPDM            |
| 33   | 1714   | Setting Block 5/32" x 1-7/16" x 1-1/4"   | EPDM            |
| 34   | 7037   | Bead A                                   | 6063-T6 Alum.   |
| 35   | 7036   | Bead B                                   | 6063-T6 Alum.   |
| 36   | 7042   | Bead C                                   | 6063-T6 Alum.   |
| 37   | 7059   | Bead D                                   | 6063-T6 Alum.   |
| 38   | 1224   | Vinyl Bulb Wstp (Thick)                  | Flex PVC 70     |
| 39   | 1225   | Vinyl Bulb Wstp (Thin)                   | Flex PVC 70     |
| 50   |        | Dow 791, 899 or 983 Silicone Backbedding |                 |
| 70   | 134    | Add-on Flange                            | 6063-T6 Alum.   |
| 71   | 7004   | Casement Frame Assy Tube                 | 6063-T6 Alum.   |
| 86   |        | #8 X 1-1/2" Quad Pn SMS Stainless Steel  | Stainless Steel |
| 90   |        | #12 x 1" Ph. Pn. TEK                     | Stainless Steel |

| Part # | Description                                 | Material                     |
|--------|---------------------------------------------|------------------------------|
| 75     | Kommerling 4SG TPS Spacer System            | See this Sheet for Materials |
| 76     | Quanex Super Spacer nXT with Hot Melt Butyl |                              |
| 77     | Quanex Duraseal Spacer                      |                              |
| 78     | Cardinal XL Edge Spacer                     |                              |

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970



1 FRAME HEAD, SILL & JAMB #7005, 6063-T6

2 ANCHOR PLATE #7071, 6063-T6

3 INST. HOLE COVER #7007, 6063-T6

70 ADDON FLANGE #134, 6063-T6

71 FRAME ASSEMBLY TUBE #7004, 6063-T6

34 BEAD A #7037, 6063-T6

35 BEAD B #7036, 6063-T6

36 BEAD C #7042, 6063-T6

37 BEAD D #7059, 6063-T6

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-0816.07**  
Expiration Date: **04/11/2028**  
By: *Manuel Torres*  
Miami-Dade Product Control

**PGT**  
Custom Windows and Doors  
1070 TECHNOLOGY DRIVE  
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PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
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(941) 480-1600  
REGISTRATION #29296

|         |                                     |          |            |
|---------|-------------------------------------|----------|------------|
| Title   | CASEMENT PICTURE WNDOW DETAILS-(NI) | Date     | 08/08/12   |
| Desc.   | BOM & EXTRUSIONS                    | Drawn By | J.ROSOWSKI |
| Rev     | F) NO CHANGES, THIS SHEET. SB       | Rev Date | 07/31/23   |
| Series  | PW-640                              | Sheet    | 10 OF 10   |
| DWG No. | MD-PW640-NI                         | Rev.     | F          |

ANTHONY LYNN MILLER  
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