



MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474

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

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

**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 "AW-640" Aluminum Awning Window – N.I.**

**APPROVAL DOCUMENT:** Drawing No. **MD-AW640-NI**, titled "Awning Window Details – NI", sheets 1 through 12 of 12, dated 08/08/12, with revision **E** dated 03/01/23, 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.

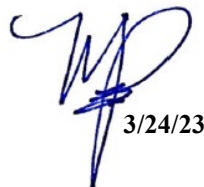
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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 and renews** NOA No. **20-0402.08** 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.**



  
3/24/23

NOA No. 23-0303.06  
Expiration Date: April 11, 2028  
Approval Date: March 30, 2023  
Page 1



**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

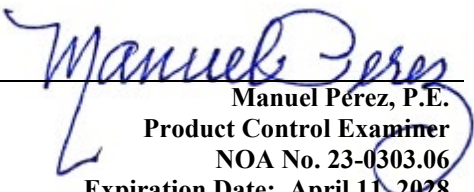
**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 12-1218.08)*
2. Drawing No. **MD-AW640-NI**, titled "Awning Window Details – NI", sheets 1 through 12 of 12, dated 08/08/12, with revision **D** dated 03/13/20, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under NOA No. 20-0402.08)*

**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. 20-0402.08)*
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. 16-0714.24)*

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0303.06  
Expiration Date: April 11, 2028  
Approval Date: March 30, 2023

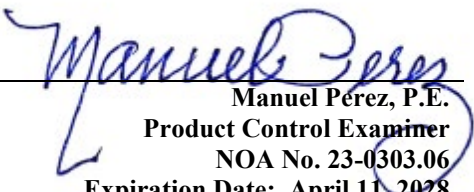


**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**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  
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-640P alum.  
projected (awning) window, prepared by Fenestration Testing Laboratory, Inc., Test  
Report No. **FTL-7062**, dated 09/18/12, signed and sealed by Marlin D. Brinson, P.E.  
**(Submitted under NOA No. 12-1218.08)**
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 mullered 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. 12-1218.08)**
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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
5) Large Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a series CA-740 outswing  
aluminum casement window mullered 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. 12-1218.08)**
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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
5) Large Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a series CA-740 aluminum  
fixed window mullered 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. 12-1218.08)**

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0303.06  
Expiration Date: April 11, 2028  
Approval Date: March 30, 2023



**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)**, prepared by manufacturer, dated 06/09/17 and revised and updated to the **FBC 7<sup>th</sup> Edition (2020)** on 03/25/20, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under NOA No. 20-0402.08)*
2. Glazing complies with **ASTM E1300-04**

**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 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under NOA No. 20-0402.08)*
2. Statement letter of no financial interest, dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.  
*(Submitted under NOA No. 20-0402.08)*
3. Proposal No. **19-1155 TP** issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.  
*(Submitted under NOA No. 20-0402.08)*
4. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.  
*(Submitted under NOA No. 16-0714.24)*

**G. OTHERS**

1. Notice of Acceptance No. **17-0614.21**, issued to PGT Industries, Inc. for their Series "AW-640" Aluminum Awning Window - N.I. approved on 10/12/17 and expiring on 04/11/23.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0303.06  
Expiration Date: April 11, 2028  
Approval Date: March 30, 2023



**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **MD-AW640-NI**, titled “Awning Window Details – NI”, sheets 1 through 12 of 12, dated 08/08/12, with revision **E** dated 03/01/23, 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**

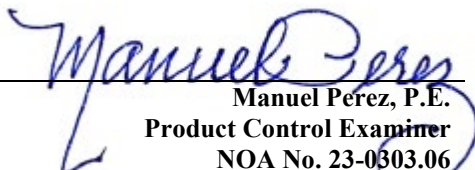
1. None.

**F. STATEMENTS**

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

**G. OTHERS**

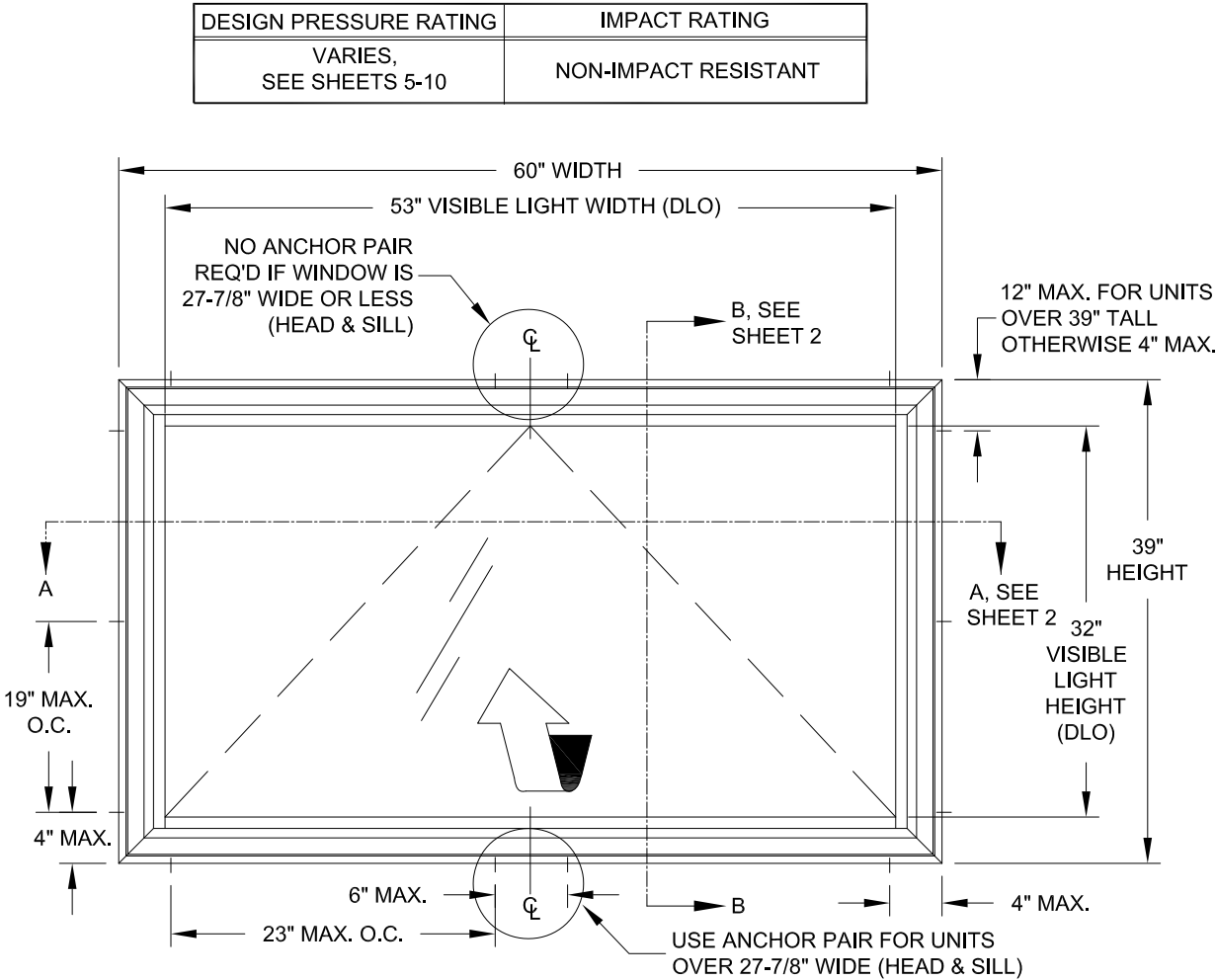
1. Notice of Acceptance No. **20-0402.08**, issued to PGT Industries, Inc. for their Series “AW-640” Aluminum Awning Window - N.I. approved on 08/20/20 and expiring on 04/11/23.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0303.06  
Expiration Date: April 11, 2028  
Approval Date: March 30, 2023



GENERAL NOTES: SERIES 640  
NON-IMPACT AWNING 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. INSTALLATION ANCHORS SHOULD BE SEALED. 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-7062, 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.



TYP. ELEVATION OF AWNING WINDOW

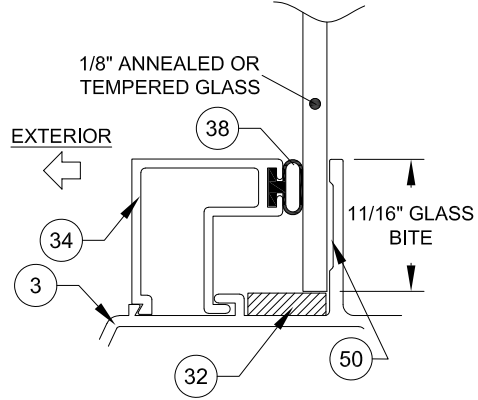
GENERAL NOTES.....	1
ELEVATION.....	1
GLAZING DETAILS.....	1
INSTALLATION.....	2
ASSEMBLY TUBE DETAILS.....	3
ANCHOR SPECIFICATIONS.....	4
ANCHOR QUANTITIES.....	4
DESIGN PRESSURES.....	5-10
ASSEMBLY DETAILS/BOM.....	11
EXTRUSIONS/SPACER.....	12

CODES / STANDARDS USED:

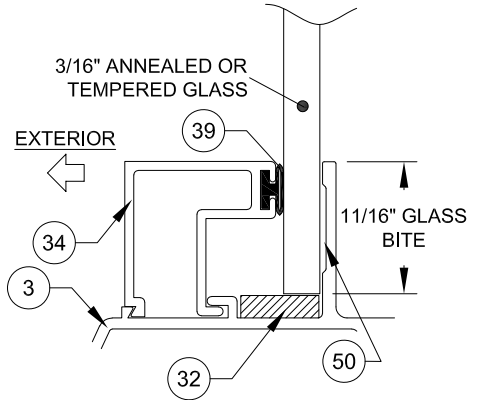
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- ASTM E1300-04
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-16
- AISC 360-16

TABLE 1:

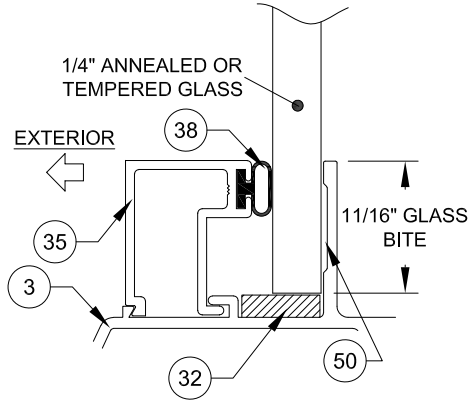
Glass Types		Sheet #
1	1/8" Annealed	5
2	1/8" Tempered	6
3	3/16" Annealed	7
4	3/16" Tempered	6
5	1/4" Annealed	7
6	1/4" Tempered	6
7	9/16" IG: (1/8" An - 5/16" Air - 1/8" An)	8
8	9/16" IG: (1/8" T - 5/16" Air - 1/8" T)	9
9	7/8" IG: (3/16" An - 1/2" Air - 3/16" An)	10
10	7/8" IG: (3/16" T - 1/2" Air -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



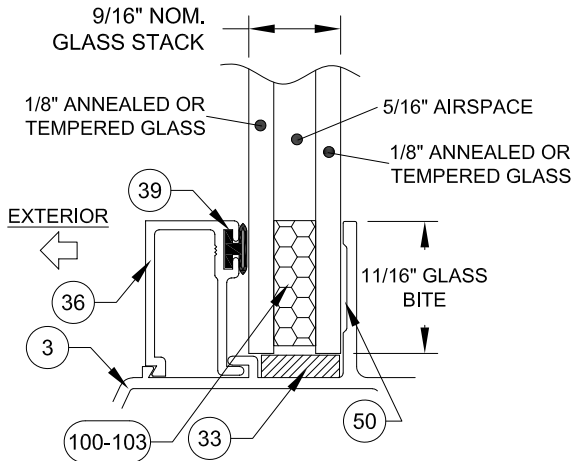
GLASS TYPES 1 & 2



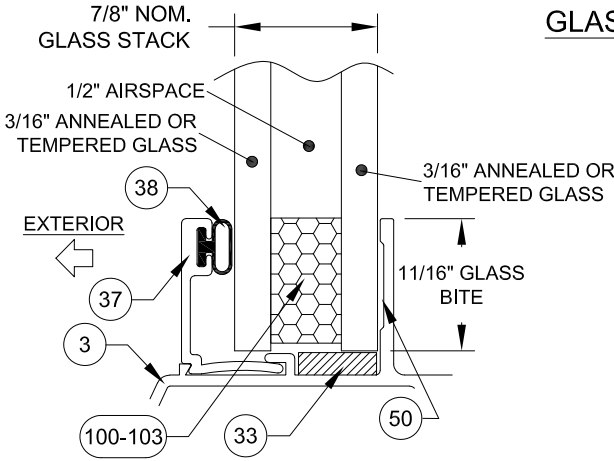
GLASS TYPES 3 & 4



GLASS TYPES 5 & 6



GLASS TYPES 7 & 8



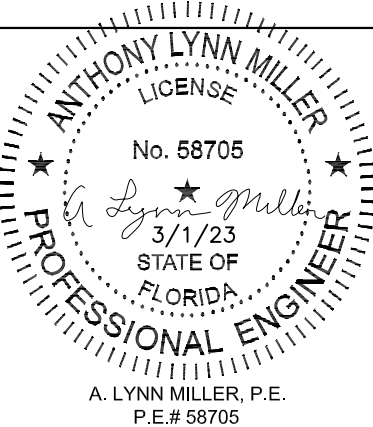
GLASS TYPES 9 & 10

**PRODUCT REVISED**  
as complying with the Florida Building Code

**NOA-No. 23-0303.06**

**Expiration Date: 04/11/2028**

By: *Manuel Fern*  
**Miami-Dade Product Control**



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

REGISTRATION #29296

Revised By:  
**JR**

Date:  
**03/13/20**

Revision:  
UPDATED ANCHORAGE  
PER FBC 2020.

Revised By:  
**JR**

Date:  
**03/01/23**

Revision:  
CORRECTED FRAME  
EXTRUSION, SHTS 2 & 3.

Description:

**GENERAL NOTES & ELEVATION**

Drawn By:

**J ROSOWSKI**

Title:

**AWNING WINDOW DETAILS - NI**

Date:

**08/08/12**

Series/Model:

**AW-640**

Scale:

**NTS**

Sheet:

**1 OF 12**

Drawing No.

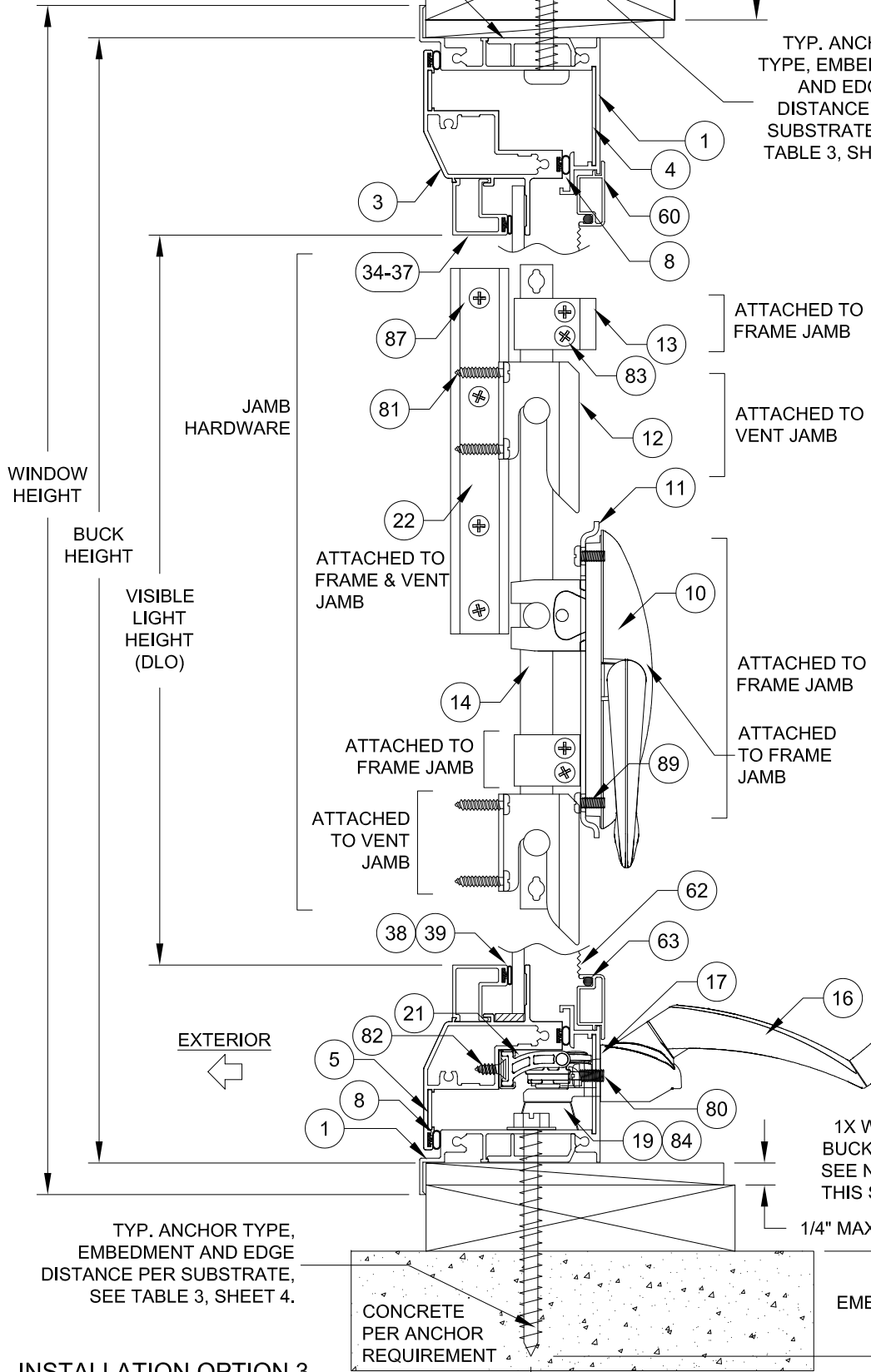
**MD-AW640-NI**

Rev:

**E**



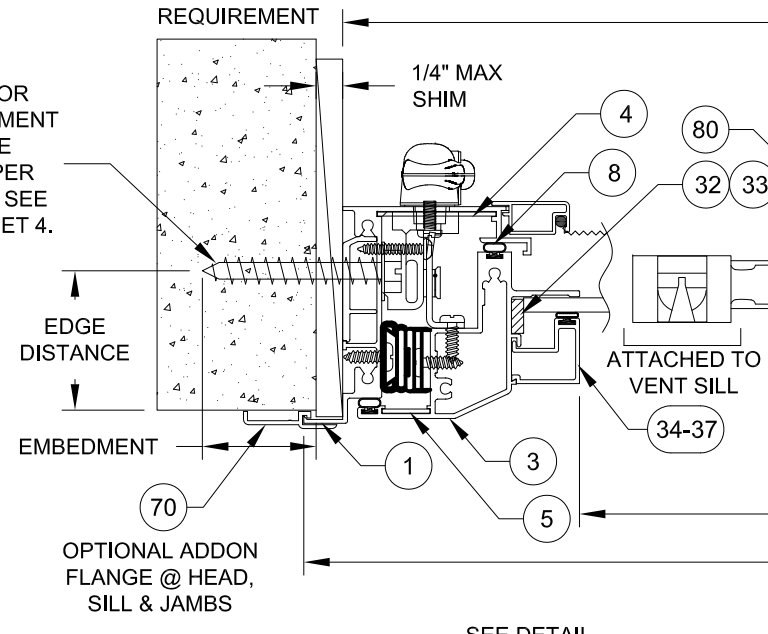
**INSTALLATION OPTION 1**  
INSTALLATION ANCHORS INTO 2X WOOD.  
AS REQUIRED PER TABLE 3, SHEET 4



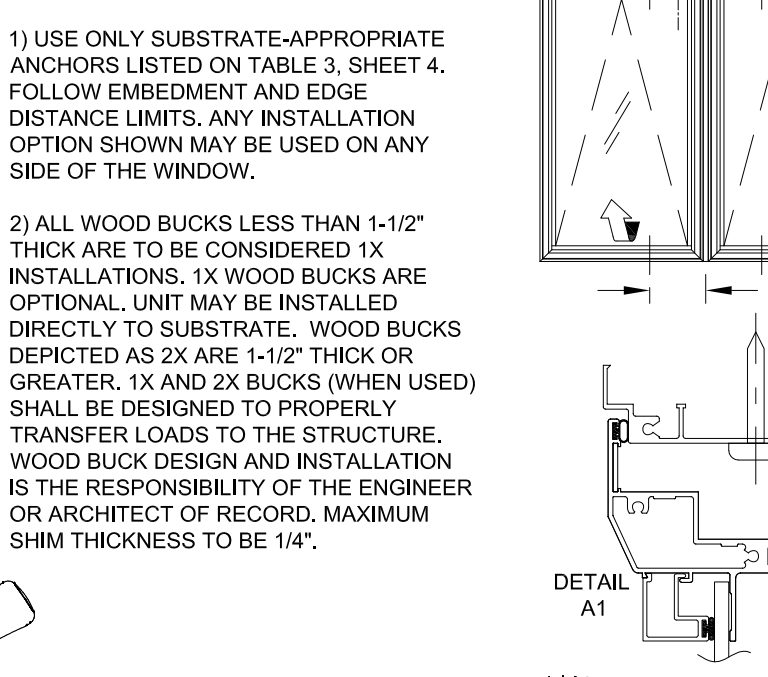
**INSTALLATION OPTION 3**  
INSTALLATION ANCHORS THROUGH 1X BUCKSTRIP INTO MASONRY.

**VERTICAL SECTION B-B**

**INSTALLATION OPTION 2**  
INSTALLATION ANCHORS DIRECTLY INTO MASONRY.



**HORIZONTAL SECTION A-A**

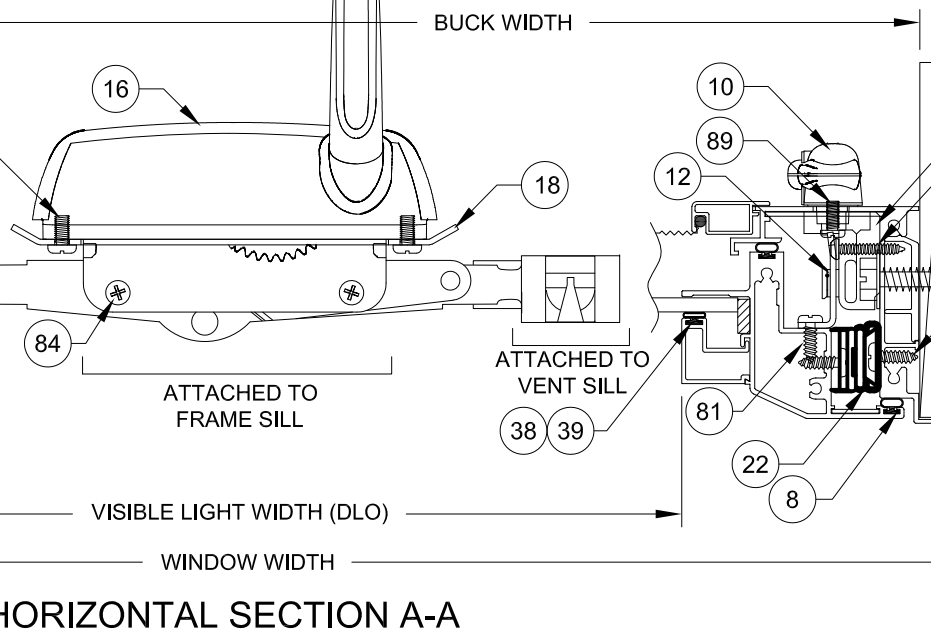


**NOTES:**

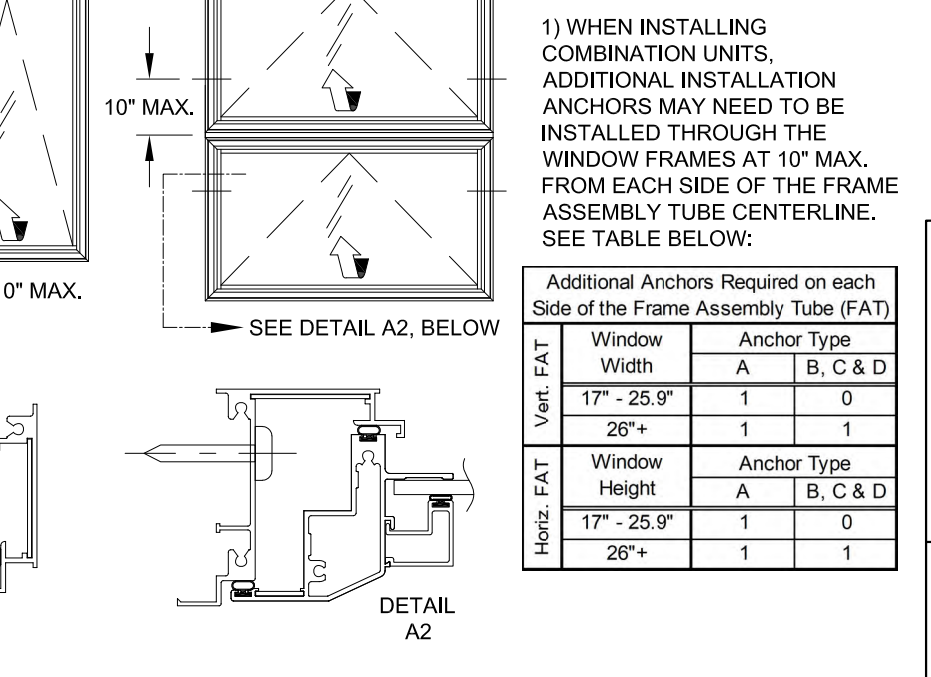
1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 3, SHEET 4. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

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".

**INSTALLATION OPTION 4**  
INSTALLATION ANCHORS DIRECTLY INTO METAL.



**HORIZONTAL SECTION A-A**

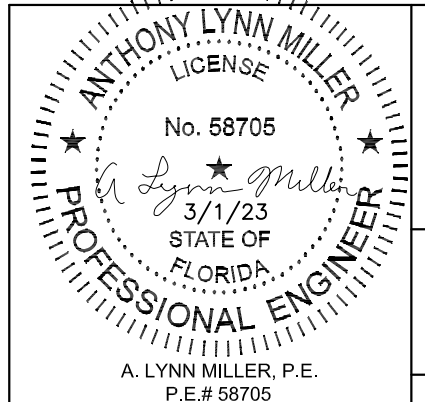


**NOTES:**

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

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



**PGT**  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600  
REGISTRATION #29296

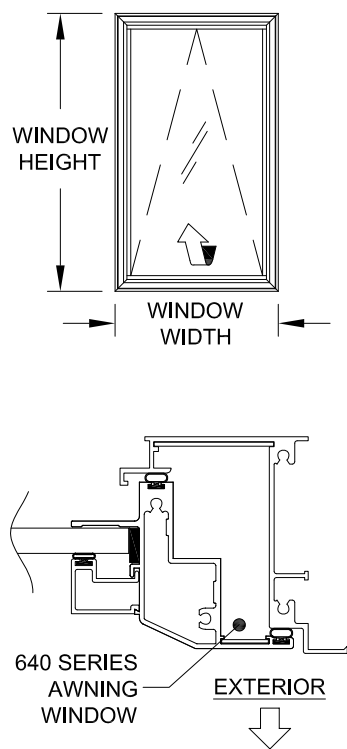
Revised By:	Date:	Revision:
JR	03/13/20	NO CHANGES.
Revised By:	Date:	Revision:
JR	03/01/23	CORRECTED FRAME EXTRUSION, SHTS 2 & 3.
Description:		
GENERAL NOTES & ELEVATION		
Title:		
AWNING WINDOW DETAILS - NI		
Series/Model:	Scale:	Sheet:
AW-640	NTS	2 OF 12

**PRODUCT REVISED**  
as complying with the Florida Building Code  
**NOA-No. 23-0303.06**  
**Expiration Date: 04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

Drawn By:	
J ROSOWSKI	
Date:	
08/08/12	
Drawing No.	Rev:
MD-AW640-NI	E



AWNING (X)

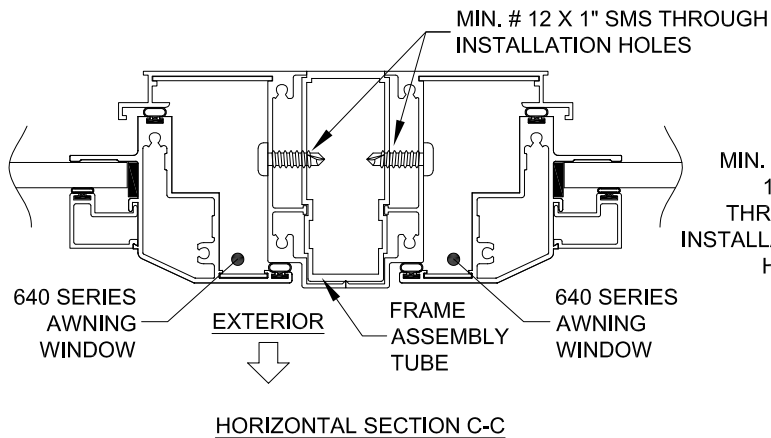
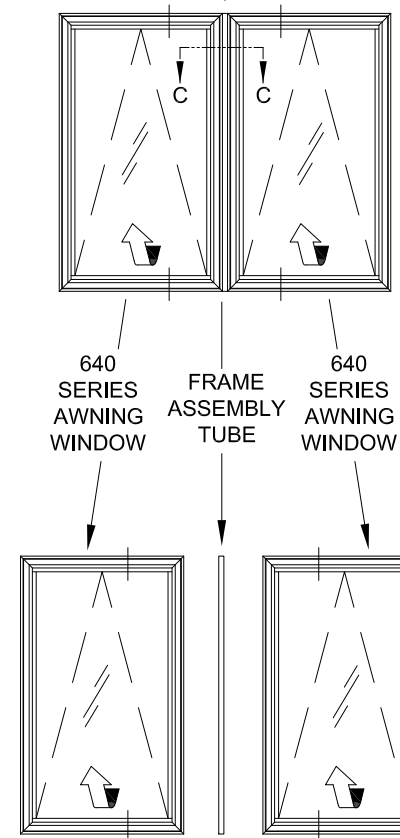


FOR SINGLE UNITS:

- 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 5-10, 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 WINDOW. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 5) USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLE 2, SHEET 4), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 6) INSTALL AS PER THE INSTRUCTIONS ON SHEET 2.

AWNING / AWNING (XX)

FIGURE 1: 10", SEE NOTE 7, THIS SHEET

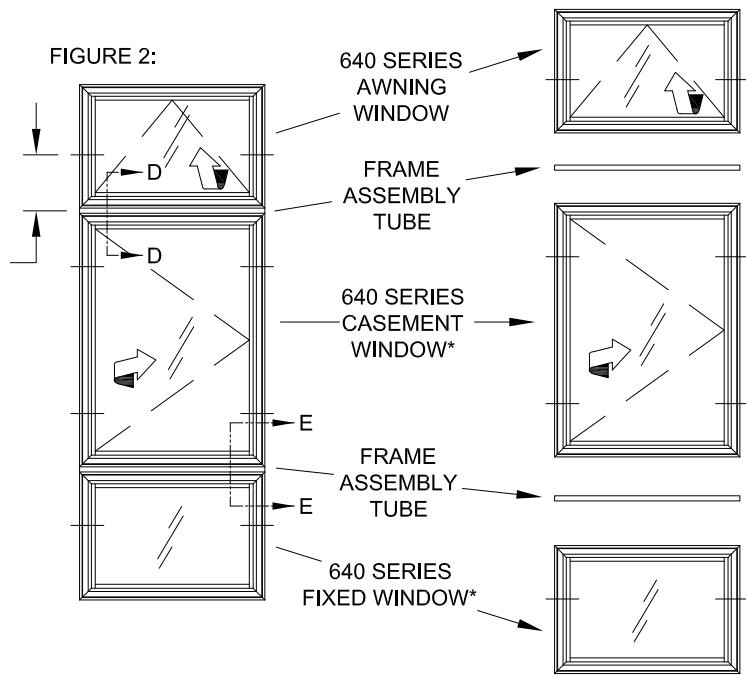


FOR EACH WINDOW IN A VERTICALLY OR HORIZONTALLY COMBINED ASSEMBLY:

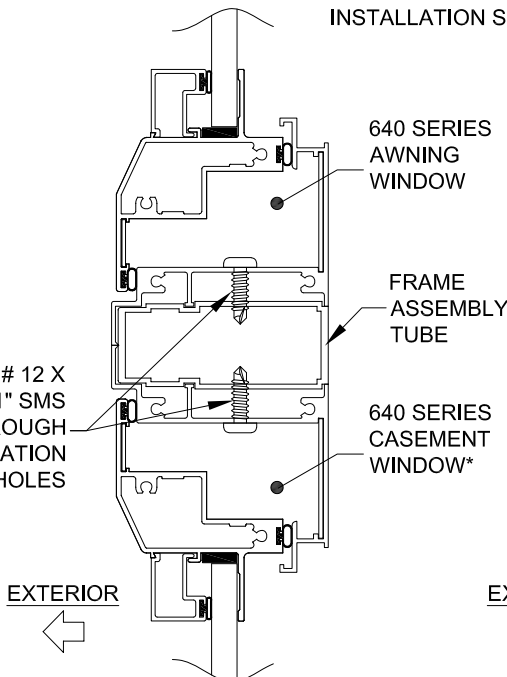
- 1) DETERMINE EACH INDIVIDUAL WINDOW TYPE, SIZE AND GLASS MAKEUP, SEE FIGURES 1 & 2, THIS SHEET. DETERMINE YOUR ANCHOR GROUP FROM TABLE 3, SHEET 4.
- 2) FROM SHEETS 5-10, FIND THE SHEET FOR YOUR GLASS TYPE.
- 3) FIND THE DESIGN PRESSURE FROM THE TABLES LABELED "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A VERTICAL FRAME ASSEMBLY TUBE" OR "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A HORIZONTAL FRAME ASSEMBLY TUBE", DEPENDING ON WHICH WAY THE FRAME ASSEMBLY TUBE IS ORIENTATED. THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE WINDOW. 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" (TABLE 2, SHEET 4), 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 / FIXED CASEMENT (XXO)

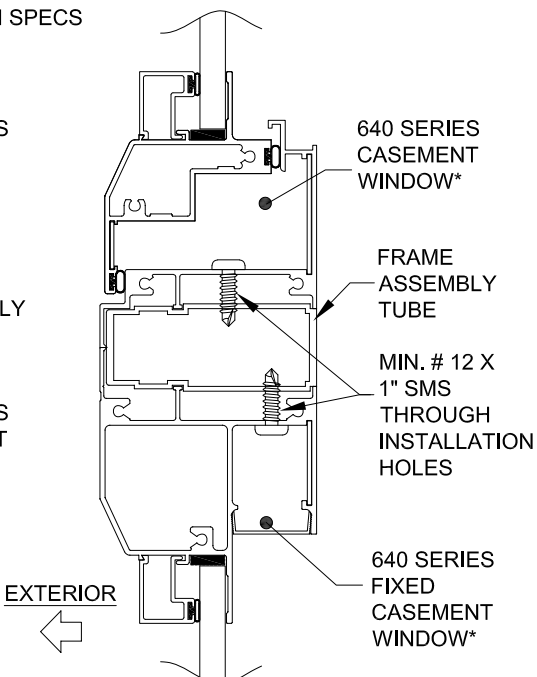
FIGURE 2:



\*SEE PRODUCT'S NOA FOR INSTALLATION SPECS



VERTICAL SECTION D-D



VERTICAL SECTION E-E

FRAME ASSEMBLY TUBE NOTES:

- 1) DIMENSIONS SHOWN ARE WINDOW 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 FIXED CASEMENT) 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
Horiz. FAT	26"+	1	1

**PRODUCT REVISED**  
as complying with the Florida Building Code  
**NOA-No. 23-0303.06**  
**Expiration Date: 04/11/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

Revised By:		Date:	Revision:	
J ROSOWSKI		03/01/23	CORRECTED FRAME EXTRUSION, SHTS 2 & 3.	
Drawn By:		Date:		
J ROSOWSKI		08/08/12		
Description:				
FRAME ASSEMBLY TUBE DETAILS				
Title:				
AWNING WINDOW DETAILS - NI				
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
AW-640	NTS	3 OF 12	MD-AW640-NI	E

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

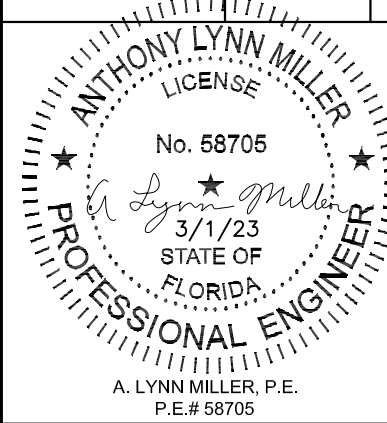




TABLE 2:

Window Anchors Required																																										
			Window Width (in)																																							
			under 23"				25-15/16"				27-7/8"				30-3/4"				32"				34"				37"				46"				53-1/8"				60"			
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group							
			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								
Window Height (in)	under 23"	Jamb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2									
		Head/Sill	2	2	2	2	2	4	2	2	2	2	4	2	2	2	4	4	2	2	4	4	4	4	6	4	4	4	4	8	6	4	4	8	6	6	4					
	25-15/16"	Jamb	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2				
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	4	6	4	4	4	8	4	4	4	8	6	4	4	10	6	6	4			
	39"	Jamb	5	3	3	2	5	3	3	2	5	4	3	2	6	4	3	2	6	4	3	2	6	4	3	2	6	4	3	2	5	4	3	2	5	3	3	2				
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	6	4	4	4	8	6	4	4	10	6	6	4	10	8	6	4				
	50-5/8"	Jamb	7	4	4	4	7	5	4	4	8	5	4	4	8	5	4	4	8	5	5	4	9	6	5	4	9	6	5	4	9	6	5	4								
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	6	4	4	4	6	4	4	4	8	6	4	4								
	60"	Jamb	8	5	5	4	9	6	5	4	10	6	5	4	10	7	6	4	10	7	6	4	10	7	6	4	10	7	6	4												
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	6	4	4	4	6	4	4	4												
	63"	Jamb	9	6	5	4	10	6	5	4	10	7	6	4	11	7	6	4	11	7	6	4	11	7	6	4	11	7	6	4												
		Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	6	4	4	4												
67"	Jamb	10	6	5	4	10	7	6	4	11	7	6	4	11	7	6	4	11	7	6	4	11	7	6	4																	
	Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4																	
72"	Jamb	10	7	6	5	11	7	6	5	12	8	6	5	12	8	7	5	12	8	7	5																					
	Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4	4	4	4	4																					
76"	Jamb	11	7	6	5	12	8	7	5	13	8	7	5	13	8	7	5																									
	Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2	4	4	4	4																									
84"	Jamb	12	8	7	5	14	9	7	5	14	9	8	5																													
	Head/Sill	2	2	2	2	4	2	2	2	4	2	2	2																													

USE THIS TABLE FOR ALL WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE WINDOW TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

TABLE 3:

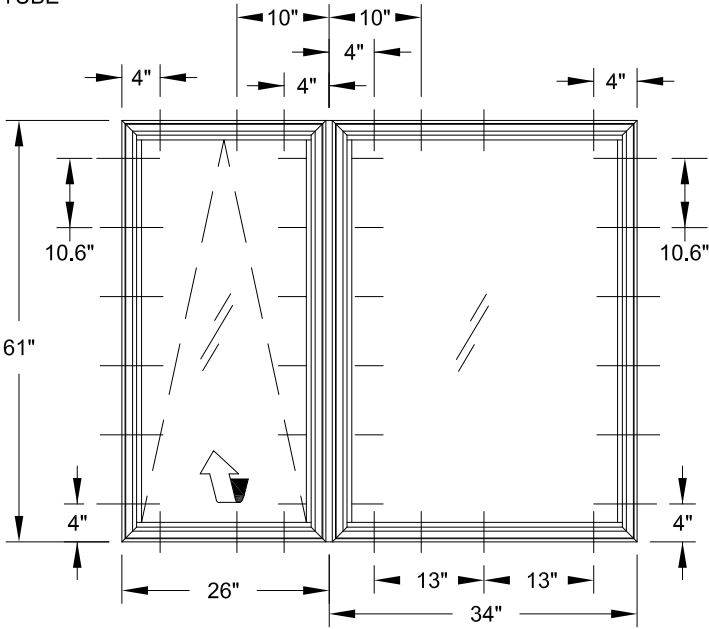
Group	Anchor	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment	Anchor Plate Required?
A	#12 steel SMS (G5) or #14 steel SMS (G5) or #14 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	No
		6063-T5 Alum.	3/8"	5/8"	.063"	No
		A36 Steel	3/8"	5/8"	.050"	No
		A553 Stud, Gr. 33	3/8"	5/8"	.045", 20 Ga.	No
	1/4" steel Ultracon+	3k Concrete	1"	3"	1-3/4"	No
		Hollow Block	1"	3"	1-1/4"	No
B	1/4" steel Ultracon	S. Pine	1"	1"	1-3/8"	No
		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
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
		A553 Stud, Gr. 33	3/8"	5/8"	.045", 18 Ga.	Yes
	1/4" steel Ultracon	2.85k Concrete	1"	4"	1-3/4"	Yes
		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
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	6"	1-3/4"	Yes
		3.35k Concrete	2-1/2"	6"	1"	Yes
		Hollow Block	2-1/2"	6"	1-1/4"	Yes
		3.5k Concrete	1-1/4"	5"	1-3/4"	No
	5/16" steel Ultracon	Hollow Block	3-1/8"	5"	1-1/4"	No
		Filled Block	2-1/2"	5"	1-3/4"	No
	1/4" steel Ultracon+	3k Concrete	1-5/16"	4"	1-3/8"	Yes
		Hollow Block	1-3/4"	3"	1-1/4"	Yes
		S. Pine	1"	1"	1-3/8"	Yes

- 1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE FROM MORE THAN ONE OF THE ANCHOR GROUPS ABOVE, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL SUBSEQUENT TABLES IN THIS APPROVAL.
- 2) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 3) ANCHORS MAY BE HEXHEAD, PANHEAD OR FLATHEAD.
- 4) FOR STEEL STUDS, MIN. FU = 45 KSI, MIN FY = 33 KSI.

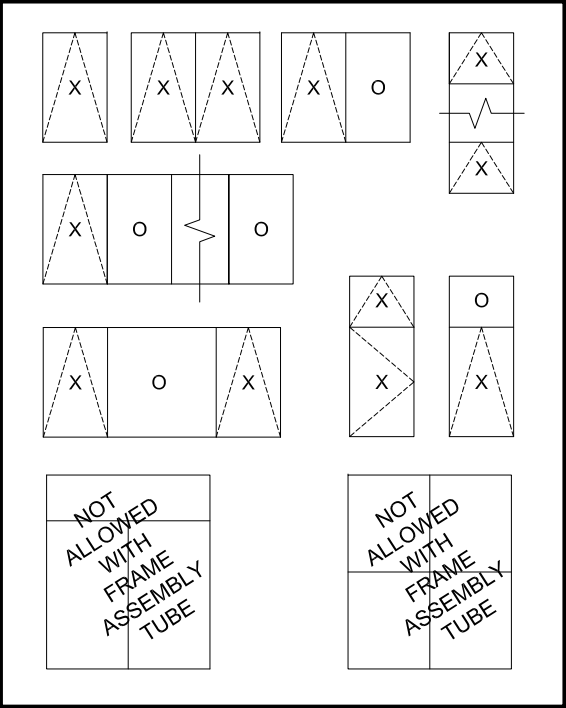
EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW; 3/16" TEMPERED GLASS, 1/4" MASONRY ANCHORS INTO CONCRETE, +/- 65 PSF DP REQUIRED

- AWNING ANCHORS:  
A) FROM TABLE 8, ANCHORS C & D ALLOW A DP OF +70/-90.
- B) FOR THE JAMB, FROM TABLE 3, ANCHORS IN GROUP C HAVE 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).
- FIXED CASEMENT ANCHORS:  
A) FROM TABLE 11, A 34" X 61" FIXED CASEMENT 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 FIXED CASEMENT (HEAD & SILL).

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 DeWalt/Elco 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



SAMPLE CONFIGURATIONS:



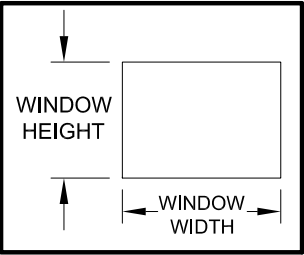
**PRODUCT REVISED**  
as complying with the Florida Building Code  
**NOA-No. 23-0303.06**  
**Expiration Date: 04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

Revised By: J ROSOWSKI		Date: 03/01/23	Revision: NO CHANGES.	
Drawn By: J ROSOWSKI		Date: 08/08/12		
Description: ANCHOR TYPE AND QUANTITY				
Title: AWNING WINDOW DETAILS - NI				
Series/Model: AW-640	Scale: NTS	Sheet: 4 OF 12	Drawing No. MD-AW640-NI	Rev: E



TABLE 4:

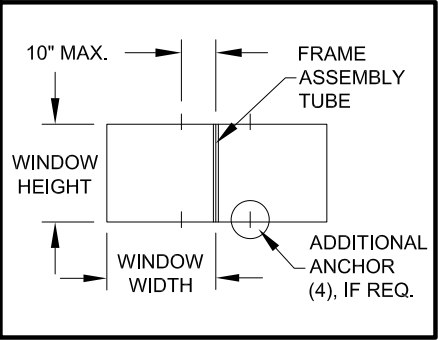
		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+/- 80.2	+/- 72	+/- 68.2	+/- 64	+/- 62.5	+/- 60.5	+/- 58.1	+/- 53.4	+/- 49.9	+/- 45.8
	25-15/16"	+/- 72	+/- 71	+/- 66.5	+/- 61.4	+/- 59.7	+/- 57.4	+/- 54.7	+/- 49.5	+/- 43.7	+/- 38
	39"	+/- 56.8	+/- 53.2	+/- 51.5	+/- 49.5	+/- 48.8	+/- 48	+/- 47.4	+/- 41	+/- 37.3	+/- 34.3
	50-5/8"	+/- 51.9	+/- 46.9	+/- 45.6	+/- 43	+/- 42.1	+/- 40.8	+/- 39.2	+/- 35.1		
	60"	+/- 45.8	+/- 38	+/- 36.2	+/- 36.1	+/- 36.2	+/- 36.2	+/- 35.6			
	63"	+/- 44.5	+/- 36.2	+/- 33.7	+/- 33.1	+/- 33.3	+/- 33.7	+/- 33.2			
	67"	+/- 43.1	+/- 34.1	+/- 30.8	+/- 29.8	+/- 30	+/- 30.3				
	72"	+/- 41.6	+/- 32	+/- 28.7	+/- 26.7	+/- 26.6					
	76"	+/- 40.7	+/- 30.8	+/- 27.3	+/- 24.8						
	84"	+/- 39.4	+/- 29.3	+/- 25.3							



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

TABLE 5:

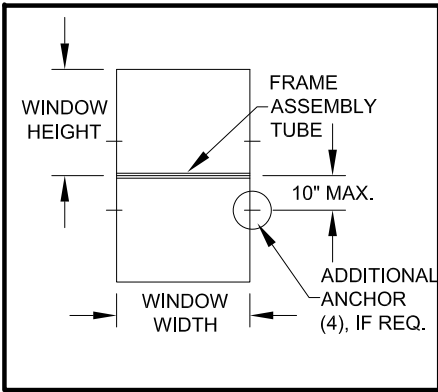
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+70/-80.2	+70/-72	+/-68.2	+/-64	+/-62.5	+/-60.5	+/-58.1	+/-53.4	+/-49.9	+/-45.8
	25-15/16"	+70/-72	+70/-71	+/-66.5	+/-61.4	+/-59.7	+/-57.4	+/-54.7	+/-49.5	+/-43.7	+/-38
	39"	+/-56.8	+/-53.2	+/-51.5	+/-49.5	+/-48.8	+/-48	+/-47.4	+/-41	+/-37.3	+/-34.3
	50-5/8"	+/-51.9	+/-46.9	+/-45.6	+/-43	+/-42.1	+/-40.8	+/-39.2	+/-35.1		
	60"	+/-45.8	+/-38	+/-36.2	+/-36.1	+/-36.2	+/-36.2	+/-35.6			
	63"	+/-44.5	+/-36.2	+/-33.7	+/-33.1	+/-33.3	+/-33.7	+/-33.2			
	67"										
	72"										
	76"										
	84"										



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

TABLE 6:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+70/-80.2	+70/-72	+/-68.2	+/-64	+/-62.5	+/-60.5	+/-58.1	+/-53.4	+/-49.9	+/-45.8
	25-15/16"	+70/-72	+70/-71	+/-66.5	+/-61.4	+/-59.7	+/-57.4	+/-54.7	+/-49.5	+/-43.7	+/-38
	39"	+/-56.8	+/-53.2	+/-51.5	+/-49.5	+/-48.8	+/-48	+/-47.4	+/-41	+/-37.3	+/-34.3
	50-5/8"	+/-51.9	+/-46.9	+/-45.6	+/-43	+/-42.1	+/-40.8	+/-39.2	+/-35.1		
	60"	+/-45.8	+/-38	+/-36.2	+/-36.1	+/-36.2	+/-36.2	+/-35.6			
	63"	+/-44.5	+/-36.2	+/-33.7	+/-33.1	+/-33.3	+/-33.7	+/-33.2			
	67"	+/-43.1	+/-34.1	+/-30.8	+/-29.8	+/-30	+/-30.3				
	72"	+/-41.6	+/-32	+/-28.7	+/-26.7	+/-26.6					
	76"	+/-40.7	+/-30.8	+/-27.3	+/-24.8						
	84"	+/-39.4	+/-29.3	+/-25.3							



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

FOR GLASS TYPES:

1) 1/8" Annealed

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **23-0303.06**  
Expiration Date: **04/11/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

Revised By:	Date:	Revision:	Description:	Title:	Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
J ROSOWSKI	03/01/23	NO CHANGES.	DESIGN PRESSURES PER GLAZING TYPE	AWNING WINDOW DETAILS - NI	AW-640	NTS	5 OF 12	MD-AW640-NI	E
J ROSOWSKI	08/08/12								

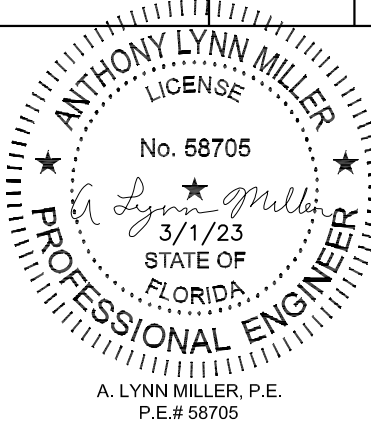
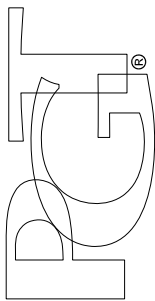
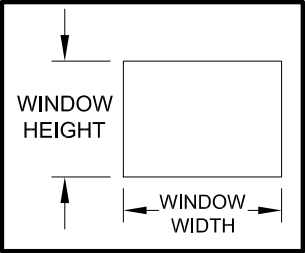




TABLE 7:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150
	25-15/16"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150
	39"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-138.6	+90/-130
	50-5/8"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-145.8	+90/-133.3		
	60"	+90/-150	+90/-150	+90/-144.9	+90/-144.2	+90/-144.9	+90/-140.4	+90/-133.7			
	63"	+90/-150	+90/-144.9	+90/-134.9	+90/-132.2	+90/-133.1	+90/-134.7	+90/-130.9			
	67"	+90/-150	+90/-136.4	+90/-123.3	+90/-119.3	+90/-119.8	+90/-121				
	72"	+90/-150	+90/-128.1	+90/-114.9	+90/-106.6	+90/-106.3					
	76"	+90/-150	+90/-123.1	+90/-109	+90/-99.3						
	84"	+90/-150	+90/-117.2	+90/-101.2							



SEE SHEETS 1  
& 4 FOR  
WINDOW  
ANCHOR  
LOCATIONS  
AND  
QUANTITIES.

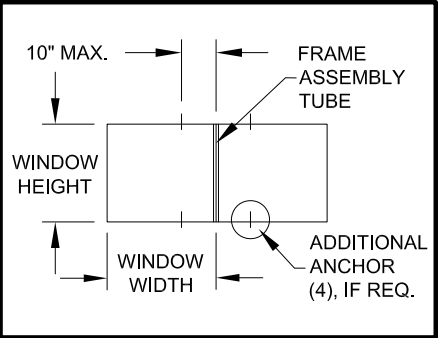
FOR GLASS TYPES:

- 2) 1/8" Tempered
- 4) 3/16" Tempered
- 6) 1/4" Tempered

**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No. 23-0303.06**  
**Expiration Date: 04/11/2028**  
**By: Manuel Perez**  
**Miami-Dade Product Control**

TABLE 8:

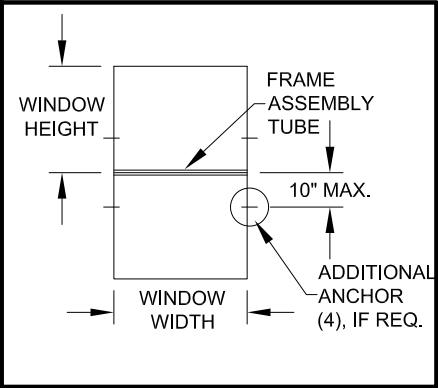
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																						
		Window Width																						
		under 23"				25-15/16"			27-7/8"			30-3/4"		32"		34"		37"			46"	53-1/8"	60"	
		Anchor Group				Anchor Group			Anchor Group			Anchor Group		Anchor Group		Anchor Group		Anchor Group			Anchor Group	Anchor Group	Anchor Group	
		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	All	All	All	
Window Height	under 23"	+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	
	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/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	
	39"	+70/-90	+70/-75.2	+70/-89.9	+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	
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.4	+70/-90	+70/-90	+70/-81	+70/-90	+70/-77.9	+70/-90	+70/-90	+70/-90	+70/-89.8	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	
	60"	+/-61	+/-48.9	+/-58.5	+70/-90	+70/-81.1	+70/-86.6	+70/-90	+70/-75.5	+70/-80.6	+70/-90	+/-68.4	+70/-90	+/-65.7	+70/-90	+/-61.8	+70/-90	+70/-75.8	+70/-90	+70/-90				
	63"	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+70/-77.2	+70/-82.5	+70/-90	+70/-71.9	+70/-76.8	+70/-90	+/-65.1	+70/-90	+/-62.6	+70/-90	+/-58.9	+70/-90	+70/-72.2	+70/-86.7	+70/-90				



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

TABLE 9:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																						
		Window Width																						
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"			37"			46"				53-1/8"				60"			
		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	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-79.2	+70/-90	+70/-79.5	+/-63.7	+70/-76.3	+70/-90	+/-68.9	+/-55.2	+/-66	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90
	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/-88.1	+70/-90	+70/-90	+70/-90	+70/-76.3	+70/-90	+70/-90	+70/-90	+/-67.5	+70/-86.6	+70/-90	+70/-90
	39"	+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/-71	+70/-90	+70/-90	+70/-90	+/-62.9	+70/-72	+70/-86.2	+70/-90
	50-5/8"	+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								
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+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												
	67"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90															
	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90																		
76"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90																			
84"	+70/-90	+70/-90	+70/-90																					



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

Revised By:  
**J ROSOWSKI**

Date:  
**03/01/23**

Revision:  
**NO CHANGES.**

Drawn By:  
**J ROSOWSKI**

Date:  
**08/08/12**

Description:  
**DESIGN PRESSURES PER GLAZING TYPE**

Title:  
**AWNING WINDOW DETAILS - NI**

Series/Model:  
**AW-640**

Scale:  
**NTS**

Sheet:  
**6 OF 12**

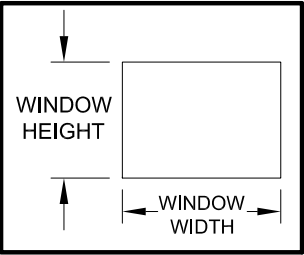
Drawing No.  
**MD-AW640-NI**

Rev:  
**E**



TABLE 10:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-103.1	+90/-92.5	+/- 87.7	+/- 82.3	+/- 80.4	+/- 77.8	+/- 74.8	+/- 68.7	+/- 65.8	+/- 63.7
	25-15/16"	+90/-92.5	+90/-91.3	+/- 85.5	+/- 79	+/- 76.8	+/- 73.8	+/- 70.3	+/- 63.6	+/- 60.4	+/- 58.3
	39"	+/- 73.1	+/- 68.4	+/- 66.2	+/- 63.6	+/- 62.8	+/- 61.8	+/- 60.9	+/- 52.7	+/- 48	+/- 45
	50-5/8"	+/- 66.7	+/- 61.4	+/- 58.7	+/- 55.3	+/- 54.1	+/- 52.5	+/- 50.5	+/- 47.2		
	60"	+/- 63.7	+/- 58.3	+/- 55.4	+/- 51.8	+/- 50.5	+/- 48.6	+/- 46.3			
	63"	+/- 63	+/- 57.5	+/- 54.6	+/- 51	+/- 49.6	+/- 47.7	+/- 45.3			
	67"	+/- 62.2	+/- 56.6	+/- 53.7	+/- 50	+/- 48.6	+/- 46.7				
	72"	+/- 61.3	+/- 55.7	+/- 52.7	+/- 49	+/- 47.6					
	76"	+/- 60.7	+/- 55.1	+/- 52.1	+/- 48.3						
	84"	+/- 59.7	+/- 54	+/- 51							



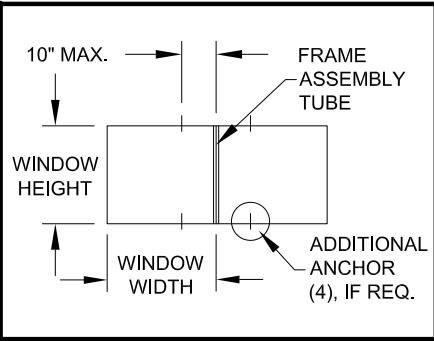
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:

- 3) 3/16" Annealed
- 5) 1/4" Annealed

TABLE 11:

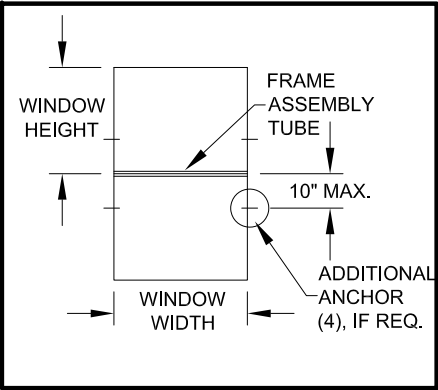
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube														
		Window Width														
		under 23"				25-15/16"		27-7/8"		30-3/4"	32"	34"	37"	46"	53-1/8"	60"
		Anchor Group				Anchor Group		Anchor Group		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group
		A	B	C	D	A	B, C & D	A	B, C & D	All	All	All	All	All	All	All
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-37.7	+70/-87.7	+70/-82.3	+70/-80.4	+70/-77.8	+70/-74.8	+/-68.7	+/-65.8	+/-63.7
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-35.5	+70/-85.5	+70/-79	+70/-76.8	+70/-73.8	+70/-70.3	+/-63.6	+/-60.4	+/-58.3
	39"	+70/-73.1	+70/-73.1	+70/-73.1	+70/-73.1	+/-58.4	+/-68.4	+/-63.2	+/-66.2	+/-63.6	+/-62.8	+/-61.8	+/-60.9	+/-52.7	+/-48	+/-45
	50-5/8"	+/-66.7	+/-57.9	+/-66.7	+/-66.7	+/-31.4	+/-61.4	+/-53.7	+/-58.7	+/-55.3	+/-54.1	+/-52.5	+/-50.5	+/-47.2		
	60"	+/-61	+/-48.9	+/-58.5	+/-63.7	+/-54	+/-58.3	+/-50.3	+/-55.4	+/-51.8	+/-50.5	+/-48.6	+/-46.3			
	63"	+/-58.1	+/-46.5	+/-55.7	+/-63	+/-51.5	+/-57.5	+/-47.9	+/-54.6	+/-51	+/-49.6	+/-47.7	+/-45.3			



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

TABLE 12:

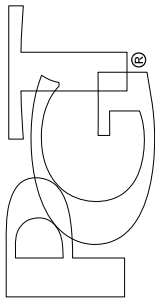
		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																
		Window Width																
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"			53-1/8"			60"			
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group			Anchor Group			Anchor Group			
		All	All	All	All	All	All	All	A	B	C & D	A	B	C & D	A	B	C	D
Window Height	under 23"	+70/-90	+70/-90	+70/-87.7	+70/-82.3	+70/-80.4	+70/-77.8	+70/-74.8	+/-68.7	+/-63.7	+/-68.7	+/-65.8	+/-55.2	+/-65.8	+/-61	+/-48.9	+/-58.5	+/-63.7
	25-15/16"	+70/-90	+70/-90	+70/-85.5	+70/-79	+70/-76.8	+70/-73.8	+70/-70.3	+/-63.6	+/-63.6	+/-63.6	+/-60.4	+/-60.4	+/-60.4	+/-54	+/-58.3	+/-58.3	+/-58.3
	39"	+70/-73.1	+/-68.4	+/-66.2	+/-63.6	+/-62.8	+/-61.8	+/-60.9	+/-46.9	+/-52.7	+/-52.7	+/-40.6	+/-48	+/-48	+/-35.9	+/-45	+/-45	+/-45
	50-5/8"	+/-66.7	+/-61.4	+/-58.7	+/-55.3	+/-54.1	+/-52.5	+/-50.5	+/-47.2	+/-47.2	+/-47.2							
	60"	+/-63.7	+/-58.3	+/-55.4	+/-51.8	+/-50.5	+/-48.6	+/-46.3										
	63"	+/-63	+/-57.5	+/-54.6	+/-51	+/-49.6	+/-47.7	+/-45.3										
	67"	+/-62.2	+/-56.6	+/-53.7	+/-50	+/-48.6	+/-46.7											
	72"	+/-61.3	+/-55.7	+/-52.7	+/-49	+/-47.6												
	76"	+/-60.7	+/-55.1	+/-52.1	+/-48.3													
	84"	+/-59.7	+/-54	+/-51														



SEE SHEETS 1 & 4 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. 23-0303.06**  
**Expiration Date: 04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

Revised By:	Date:	Revision:
J ROSOWSKI	03/01/23	NO CHANGES.
Drawn By:	Date:	
J ROSOWSKI	08/08/12	
Description:		
DESIGN PRESSURES PER GLAZING TYPE		
Title:		
AWNING WINDOW DETAILS - NI		
Series/Model:	Scale:	Sheet:
AW-640	NTS	7 OF 12
Drawing No.		Rev:
MD-AW640-NI		E



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

REGISTRATION #29296

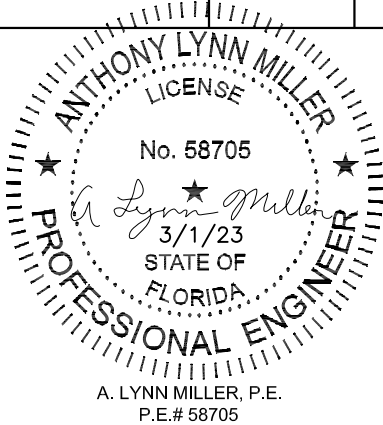
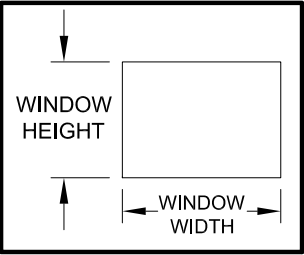




TABLE 13:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-148.9	+90/-133.7	+90/-126.7	+90/-118.9	+90/-116.2	+90/-112.4	+90/-108	+90/-99.2	+/- 89.8	+/- 82.4
	25-15/16"	+90/-133.7	+90/-131.9	+90/-123.4	+90/-114.1	+90/-110.9	+90/-106.7	+90/-101.6	+90/-91.9	+/- 78.7	+/- 68.4
	39"	+90/-105.5	+90/-98.8	+90/-95.6	+90/-91.9	+90/-90.7	+/- 89.2	+/- 88	+/- 76.2	+/- 69.3	+/- 61.7
	50-5/8"	+90/-93.4	+/- 84.5	+/- 83.5	+/- 79.9	+/- 78.2	+/- 75.8	+/- 72.9	+/- 63.2		
	60"	+/- 82.4	+/- 68.4	+/- 65.2	+/- 64.9	+/- 65.2	+/- 65.1	+/- 64			
	63"	+/- 80.1	+/- 65.2	+/- 60.7	+/- 59.5	+/- 59.9	+/- 60.6	+/- 59.7			
	67"	+/- 77.5	+/- 61.4	+/- 55.5	+/- 53.7	+/- 53.9	+/- 54.5				
	72"	+/- 74.9	+/- 57.7	+/- 51.7	+/- 48	+/- 47.8					
	76"	+/- 73.2	+/- 55.4	+/- 49.1	+/- 44.7						
	84"	+/- 71	+/- 52.7	+/- 45.5							



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

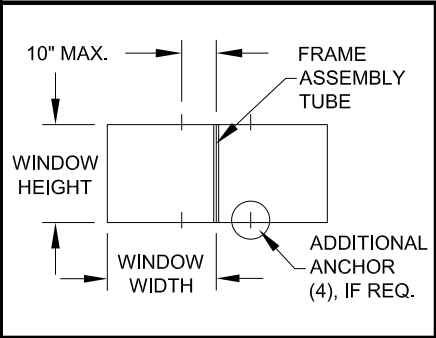
FOR GLASS TYPES:

7) 9/16" IG: (1/8" An - 5/16" Air - 1/8" An)

**PRODUCT REVISED**  
as complying with the Florida Building Code  
**NOA-No. 23-0303.06**  
**Expiration Date: 04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

TABLE 14:

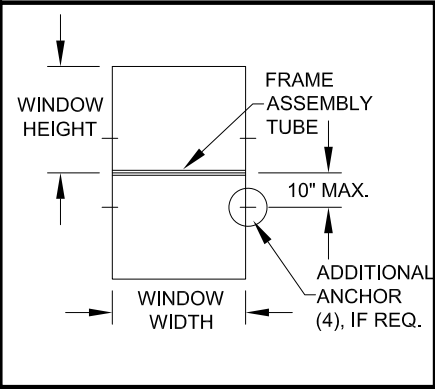
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																		
		Window Width																		
		under 23"				25-15/16"		27-7/8"		30-3/4"	32"		34"		37"		46"		53-1/8"	60"
		Anchor Group				Anchor Group		Anchor Group		Anchor Group	Anchor Group		Anchor Group		Anchor Group		Anchor Group		Anchor Group	Anchor Group
		A	B	C	D	A	B, C & D	A	B, C & D	All	A	B, C & D	A	B, C & D	A	B, C & D	A	B, C & D	All	All
Window Height	under 23"	+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/-89.8	+70/-82.4	
	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/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-78.7	+/-68.4	
	39"	+70/-90	+70/-75.2	+70/-89.9	+70/-90	+70/-83.1	+70/-90	+70/-77.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.2	+70/-89.2	+70/-87.4	+70/-88	+70/-70.3	+70/-76.2	+/-69.3	+/-61.7
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+/-64	+70/-84.5	+/-59.6	+70/-83.5	+70/-79.9	+70/-77.9	+70/-78.2	+70/-73.3	+70/-75.8	+/-67.3	+70/-72.9	+/-54.2	+/-63.2		
	60"	+/-61	+/-48.9	+/-58.5	+70/-82.4	+/-54	+/-68.4	+/-50.3	+/-65.2	+/-64.9	+/-65.2	+/-65.2	+/-51.8	+/-65.1	+/-56.8	+/-64				
63"	+/-58.1	+/-46.5	+/-55.7	+70/-80.1	+/-51.5	+/-65.2	+/-47.9	+/-60.7	+/-59.5	+/-59.9	+/-59.9	+/-58.9	+/-60.6	+/-54.1	+/-59.7					



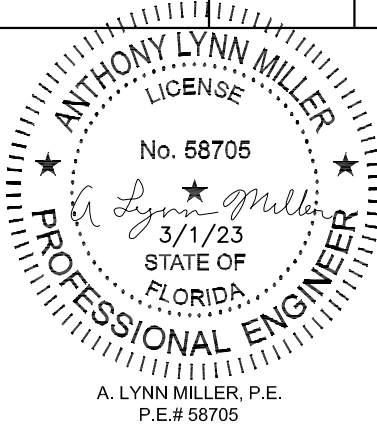
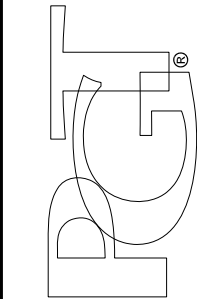
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

TABLE 15:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																						
		Window Width																						
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"			37"			46"				53-1/8"				60"			
		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	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-79.2	+70/-90	+70/-79.5	+/-63.7	+70/-76.3	+70/-90	+/-68.9	+/-55.2	+/-66	+70/-89.8	+/-61	+/-48.9	+/-58.5	+70/-82.4
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-70.5	+70/-90	+70/-90	+70/-90	+/-61	+70/-78.7	+70/-78.7	+70/-78.7	+/-54	+/-68.4	+/-68.4	+/-68.4
	39"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.2	+70/-89.2	+70/-89.2	+70/-87.4	+70/-88	+70/-88	+/-58.6	+70/-75.1	+70/-76.2	+70/-76.2	+/-50.7	+/-65.1	+/-69.3	+/-69.3	+/-44.9	+/-57.6	+/-61.7	+/-61.7
	50-5/8"	+70/-90	+70/-84.5	+70/-83.5	+70/-79.9	+70/-78.2	+70/-75.8	+70/-75.8	+70/-75.8	+70/-72.9	+70/-72.9	+70/-72.9	+/-54.2	+/-63.2	+/-63.2	+/-63.2								
	60"	+70/-82.4	+/-68.4	+/-65.2	+/-64.9	+/-65.2	+/-65.1	+/-65.1	+/-65.1	+/-64	+/-64	+/-64												
	63"	+70/-80.1	+/-65.2	+/-60.7	+/-59.5	+/-59.9	+/-60.6	+/-60.6	+/-60.6	+/-59.7	+/-59.7	+/-59.7												
	67"	+70/-77.5	+/-61.4	+/-55.5	+/-53.7	+/-53.9	+/-54.5	+/-54.5	+/-54.5															
	72"	+70/-74.9	+/-57.7	+/-51.7	+/-48	+/-47.8																		
	76"	+70/-73.2	+/-55.4	+/-49.1	+/-44.7																			
84"	+70/-71	+/-52.7	+/-45.5																					



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

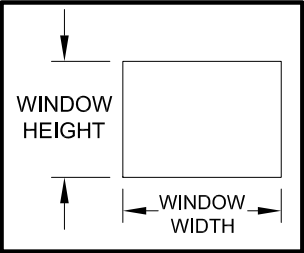


Revised By:	Date:	Revision:
J ROSOWSKI	03/01/23	NO CHANGES.
Drawn By:	Date:	
J ROSOWSKI	08/08/12	
Description:		
DESIGN PRESSURES PER GLAZING TYPE		
Title:		
AWNING WINDOW DETAILS - NI		
Series/Model:	Scale:	Sheet:
AW-640	NTS	8 OF 12
Drawing No.		Rev:
MD-AW640-NI		E



TABLE 16:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150
	25-15/16"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150
	39"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-138.6	+90/-130
	50-5/8"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-145.8	+90/-136.3		
	60"	+90/-150	+90/-150	+90/-150	+90/-149.6	+90/-145.8	+90/-140.4	+90/-133.7			
	63"	+90/-150	+90/-150	+90/-150	+90/-147.2	+90/-143.4	+90/-137.9	+90/-130.9			
	67"	+90/-150	+90/-150	+90/-150	+90/-144.4	+90/-140.5	+90/-134.9				
	72"	+90/-150	+90/-150	+90/-150	+90/-141.5	+90/-137.5					
	76"	+90/-150	+90/-150	+90/-150	+90/-139.5						
	84"	+90/-150	+90/-150	+90/-147.3							



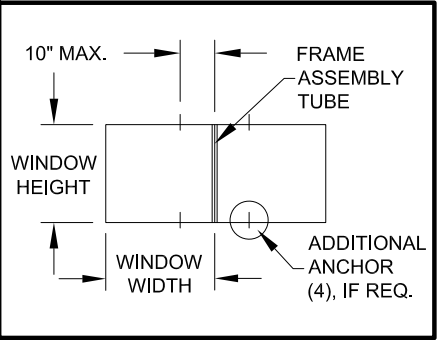
SEE SHEETS 1  
& 4 FOR  
WINDOW  
ANCHOR  
LOCATIONS  
AND  
QUANTITIES.

FOR GLASS TYPES:  
8) 9/16" IG: (1/8" T - 5/16" Air - 1/8" T)  
10) 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)

**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No. 23-0303.06**  
**Expiration Date: 04/11/2028**  
**By: Manuel Perez**  
**Miami-Dade Product Control**

TABLE 17:

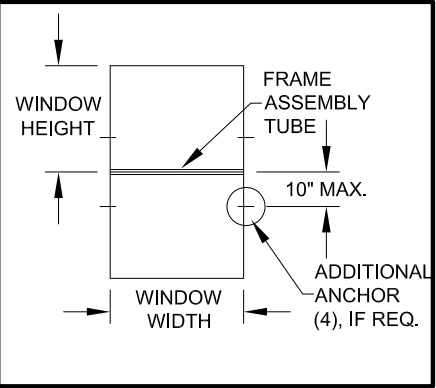
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																					
		Window Width																					
		under 23"				25-15/16"			27-7/8"			30-3/4"		32"		34"		37"			46"	53-1/8"	60"
		Anchor Group				Anchor Group			Anchor Group			Anchor Group		Anchor Group		Anchor Group		Anchor Group			Anchor Group	Anchor Group	Anchor Group
Window Height	under 23"	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	All	All	All
	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/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	39"	+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
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.4	+70/-90	+70/-90	+70/-81	+70/-90	+70/-77.9	+70/-90	+70/-90	+70/-90	+70/-89.8	+70/-90	+70/-90	+70/-90		
	60"	+/-61	+/-48.9	+/-58.5	+70/-90	+70/-81.1	+70/-86.6	+70/-90	+70/-75.5	+70/-80.6	+70/-90	+/-68.4	+70/-90	+/-65.7	+70/-90	+/-61.8	+70/-90	+70/-75.8	+70/-90	+70/-90			
	63"	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+70/-77.2	+70/-82.5	+70/-90	+70/-71.9	+70/-76.8	+70/-90	+/-65.1	+70/-90	+/-62.6	+70/-90	+/-58.9	+70/-90	+70/-72.2	+70/-86.7	+70/-90			



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

TABLE 18:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																						
		Window Width																						
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"			37"			46"				53-1/8"				60"			
		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	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-79.2	+70/-90	+70/-79.5	+/-63.7	+70/-76.3	+70/-90	+/-68.9	+/-55.2	+/-66	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90	
	25-15/16"	+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	+70/-76.3	+70/-90	+70/-90	+70/-90	+/-67.5	+70/-86.6	+70/-90	+70/-90	
	39"	+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/-71	+70/-90	+70/-90	+70/-90	+70/-90	+/-62.9	+70/-72	+70/-86.2	+70/-90
	50-5/8"	+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									
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+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													
	67"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90																
	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90																		
	76"	+70/-90	+70/-90	+70/-90	+70/-90																			
84"	+70/-90	+70/-90	+70/-90																					



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

Revised By:  
**J ROSOWSKI**

Drawn By:  
**J ROSOWSKI**

Description:  
**DESIGN PRESSURES PER GLAZING TYPE**

Title:  
**AWNING WINDOW DETAILS - NI**

Series/Model:  
**AW-640**

Scale:  
**NTS**

Sheet:  
**9 OF 12**

Drawing No.  
**MD-AW640-NI**

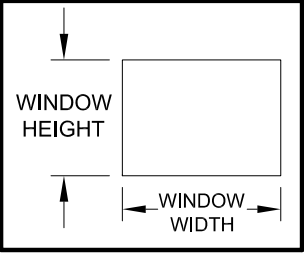
Rev:  
**E**



TABLE 19:

		Design Pressure (psf) for Single Windows, All Anchor Groups									
		Window Width									
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"	37"	46"	53-1/8"	60"
Window Height	under 23"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-149.5	+90/-137.4	+90/-131.5	+90/-127.5
	25-15/16"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-147.7	+90/-140.6	+90/-127.2	+90/-120.8	+90/-116.5
	39"	+90/-146.1	+90/-136.9	+90/-132.3	+90/-127.2	+90/-125.5	+90/-123.5	+90/-121.8	+82/-105.5	+74.7/-96	+70/-90
	50-5/8"	+90/-133.3	+90/-122.8	+90/-117.3	+86.1/-110.7	+84.2/-108.3	+81.6/-104.9	+78.5/-100.9	+73.4/-94.4		
	60"	+90/-127.5	+90/-116.5	+86.1/-110.8	+80.6/-103.6	+78.5/-101	+75.6/-97.2	+72/-92.6			
	63"	+90/-126.1	+89.5/-115	+84.9/-109.2	+79.3/-101.9	+77.2/-99.2	+74.2/-94.2	+70.5/-90.7			
	67"	+90/-124.4	+88.1/-113.3	+83.5/-107.4	+77.8/-99	+75.7/-93.4	+72.6/-88.1				
	72"	+90/-122.6	+86.7/-111.4	+82/-105.4	+76.2/-93.2	+74/-87.9					
	76"	+90/-121.4	+85.7/-110.1	+81/-104.1	+75.1/-90						
	84"	+90/-119.4	+84/-108	+79.3/-102							

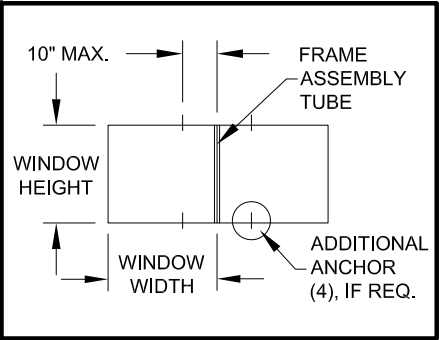
FOR GLASS TYPES:  
9) 7/8" IG: (3/16" An - 1/2" Air - 3/16" An)



SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

TABLE 20:

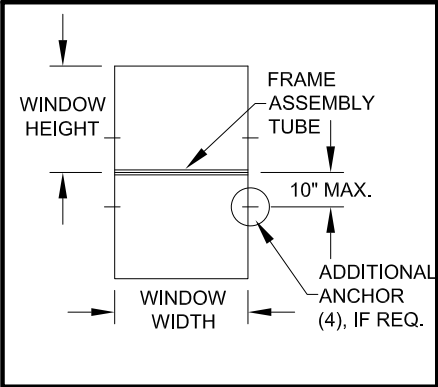
<div></div> <div></div>		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																											
		Window Width																											
		under 23"				25-15/16"			27-7/8"			30-3/4"		32"		34"		37"			46"			53-1/8"		60"			
		Anchor Group				Anchor Group			Anchor Group			Anchor Group		Anchor Group		Anchor Group		Anchor Group			Anchor Group			Anchor Group		Anchor Group			
		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	A	B, C & D	A	B, C & D		
Window Height	under 23"	+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	+70/-90	+70/-90	+70/-90	+70/-90	
	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/-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	
	39"	+70/-90	+70/-75.2	+70/-89.9	+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/-87.4	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-81.2	+70/-90	+70/-89.8	+70/-90
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+/-64	+70/-90	+70/-90	+70/-89.4	+70/-90	+70/-90	+70/-81	+70/-90	+70/-77.9	+70/-90	+70/-73.3	+70/-90	+/-67.3	+70/-90	+70/-90	+70/-90	+70/-72.2	+70/-86.8	+70/-90					
	60"	+/-61	+/-48.9	+/-58.5	+70/-90	+/-54	+70/-86.6	+70/-90	+/-50.3	+70/-80.6	+70/-90	+/-68.4	+70/-90	+/-65.7	+70/-90	+/-61.8	+70/-90	+/-56.8	+70/-90	+70/-90									
	63"	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+/-51.5	+70/-82.5	+70/-90	+/-47.9	+70/-76.8	+70/-90	+/-65.1	+70/-90	+/-62.6	+70/-90	+/-58.9	+70/-90	+/-54.1	+70/-86.6	+70/-90									



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

TABLE 21:

		Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube																						
		Window Width																						
		under 23"	25-15/16"	27-7/8"	30-3/4"	32"	34"			37"			46"				53-1/8"				60"			
		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	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-79.2	+70/-90	+70/-79.5	+/-63.7	+70/-76.3	+70/-90	+/-68.9	+/-55.2	+/-66	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90
	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/-70.5	+70/-90	+70/-90	+70/-90	+/-61	+70/-90	+70/-90	+70/-90	+/-54	+70/-86.6	+70/-90	+70/-90
	39"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-70.3	+70/-90	+70/-89.9	+70/-90	+/-60.9	+70/-81.3	+70/-77.8	+70/-90	+/-53.9	+/-57.6	+/-68.9	+70/-90
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.8	+70/-90	+70/-90	+70/-72.2	+70/-86.8	+70/-90	+70/-90								
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-85.2	+70/-90	+70/-90												
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.3	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90												
	67"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.1	+70/-88.1	+70/-88.1															
	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.9																		
76"	+70/-90	+70/-90	+70/-90	+70/-90																				
84"	+70/-90	+70/-90	+70/-90																					



SEE SHEETS 1 & 4 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. 23-0303.06**  
**Expiration Date: 04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

Revised By:	Date:	Revision:	Description:	Title:	Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
J ROSOWSKI	03/01/23	NO CHANGES.	DESIGN PRESSURES PER GLAZING TYPE	AWNING WINDOW DETAILS - NI	AW-640	NTS	10 OF 12	MD-AW640-NI	E

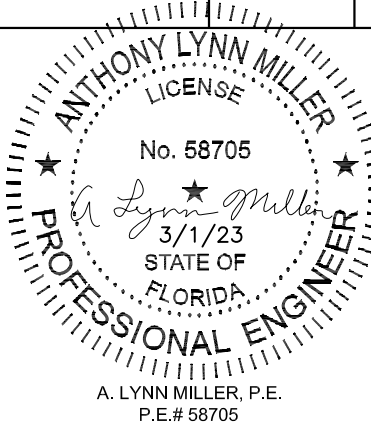
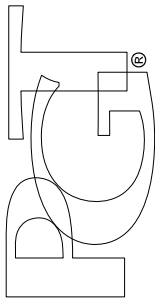
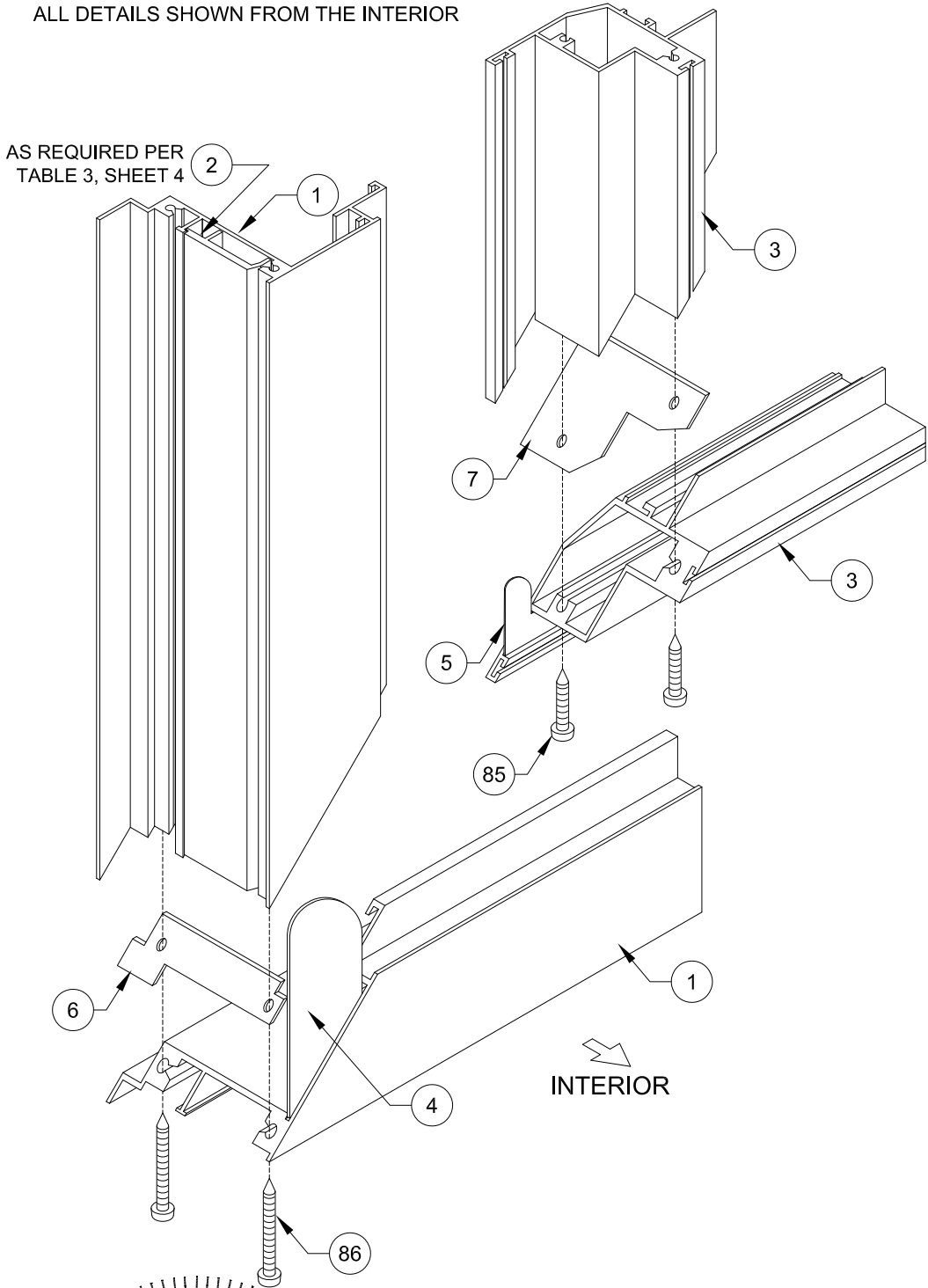
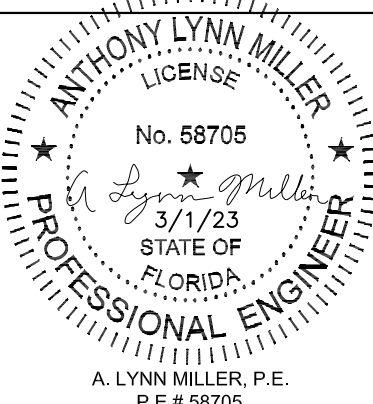





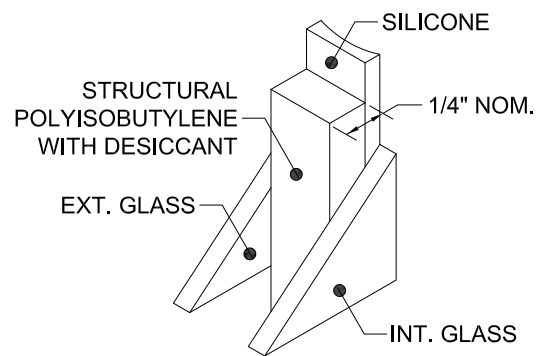
TABLE 22:

Item	Dwg. #	Description	Mat.
1	7002	Main Frame Head, Sill & Jamb	6063-T6 Alum.
2	7071	Anchor Plate	6063-T6 Alum.
3	7003	Sash Top, Bottom & Side Rail	6063-T6 Alum.
4	7008	Frame Corner Key	Steel
5	7009	Sash Corner Key	Steel
6	7078	Frame Gasket	Vinyl Foam
7	7072	Sash Corner Gasket	Vinyl Foam
8	7070	Bulb Weatherstrip .187" x .275"	Flex PVC 70
10	7024	Maxim Multi-Point Lock	Steel
11	7026	Lock Support Plate	Steel
12	7014	Multi-Lock Keeper	Steel
13	7013	Tie Bar Guide	Nylon
14	7015	Tie Bar Assembly	Steel or SS
16	7029	Maxim Projected Operator	Steel
17	7030	Operator Gasket	Vinyl Foam
18	7031	Operator Backing Plate	Steel
19	7051	Operator Spacer Block	Nylon
21	7034	Operator Track & Slider	Steel
22	7023	Projected Hinge, Manuf. by Truth	Steel
32	1713	Setting Block 5/32" x 3/16" x 1-1/4"	EPDM
33	1714	Setting Block 5/32" x 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 Backbedding	Silicone
60	7006	Screen Frame	3105-H14 Alum.
61	7040	Screen Corner Key	Polypropolene
62		Screen Cloth	Fiberglass
63	1635	Screen Spline	EM. PVC
64	320	Casement Screen Spring	Stainless Steel
70	134	Add-on Flange	6063-T6 Alum.
71	7004	Frame Assy Tube	6063-T6 Alum.
72		Maxim Pivot Slider Assembly	Steel
80		#8-32 x 1/2" Ph. Pn. Mach. Scr TYPE B	Stainless Steel
81	1157	#8 x 1/2" Ph. Pn. SMS	Stainless Steel
82		#8 x 5/8" Fl. Ph. SMS	Stainless Steel
83		#8 x 7/8" F.H. Ph. SMS	Stainless Steel
84		#8 x 1" Fl. Ph. TEK	Stainless Steel
85		#8 x 1" Quad Pn SMS	Stainless Steel
86		#8 X 1-1/2" Quad Pn SMS	Stainless Steel
87		#10 x 1/2" Ph. Pn./ TEK	Stainless Steel
89		#10-24 x 9/16" Ph. Pn. TYPE F	Stainless Steel
90		#12 x 1" Ph. Pn. TEK	Stainless Steel

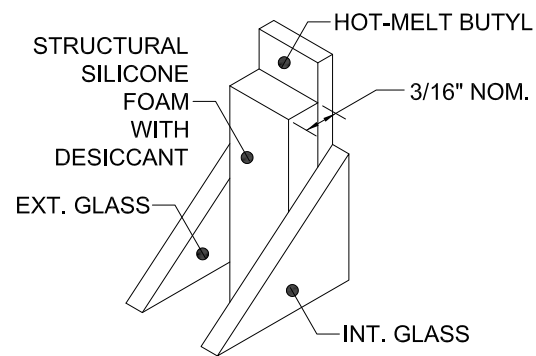


 A. LYNN MILLER, P.E. P.E.# 58705	 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Revised By: JR      Date: 03/01/23      Revision: NO CHANGES.	Description: <b>BOM AND CORNER VIEW</b>		Drawn By: <b>J ROSOWSKI</b>	
		Revised By:      Date:      Revision:			Title: <b>AWNING WINDOW DETAILS - NI</b>	
		Series/Model: <b>AW-640</b>	Scale: <b>NTS</b>	Sheet: <b>11 OF 12</b>	Drawing No. <b>MD-AW640-NI</b>	Rev: <b>E</b>
		<b>PRODUCT REVISED</b> as complying with the Florida Building Code NOA-No. <b>23-0303.06</b> Expiration Date: <b>04/11/2028</b> By: <i>Manuel Perez</i> <b>Miami-Dade Product Control</b>				

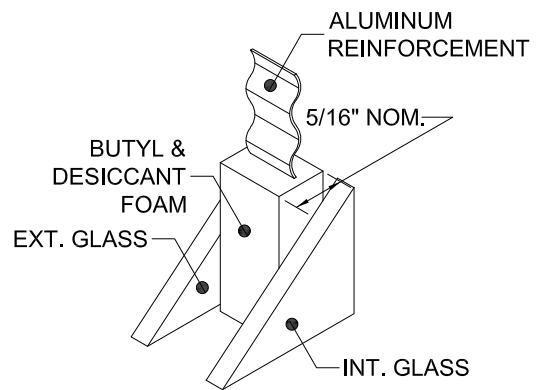




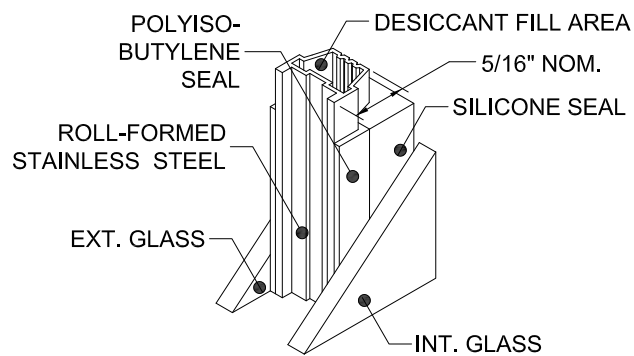
100 **KODISPACE**  
**4SG TPS**



101 **SUPER**  
**SPACER® NXT™**



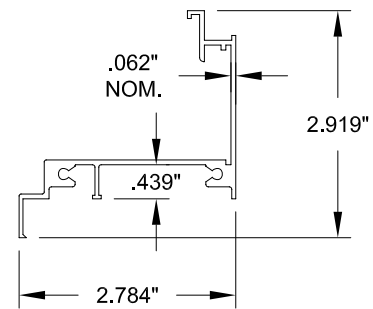
102 **DURASEAL®**  
**SPACER**



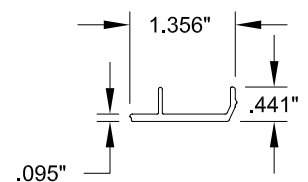
103 **XL EDGE™**  
**SPACER**

Part #	Description	Material
100	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
101	Quanex Super Spacer nXT with Hot Melt Butyl	
102	Quanex Duraseal Spacer	
103	Cardinal XL Edge Spacer	

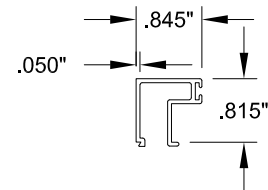
REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970



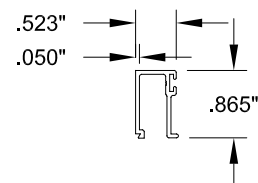
1 **FRAME HEAD,**  
**SILL & JAMB**  
#7002, 6063-T6



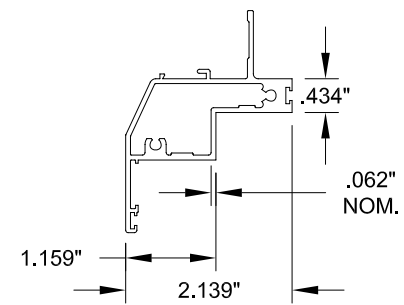
2 **ANCHOR PLATE**  
#7071, 6063-T6



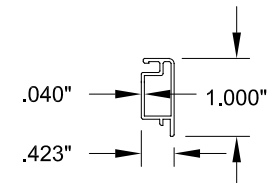
34 **BEAD A**  
#7037, 6063-T6



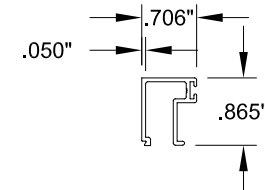
36 **BEAD C**  
#7042, 6063-T6



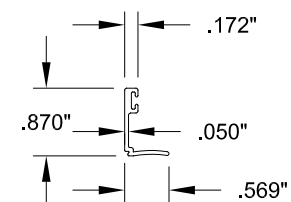
3 **SASH TOP,**  
**BOTTOM & SIDE**  
#7003, 6063-T6



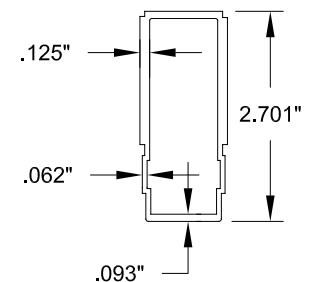
60 **FIXED**  
**SCREEN FRAME**  
#7006, 3105-H14



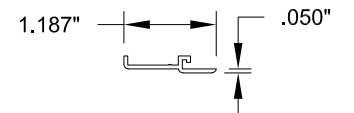
35 **BEAD B**  
#7036, 6063-T6



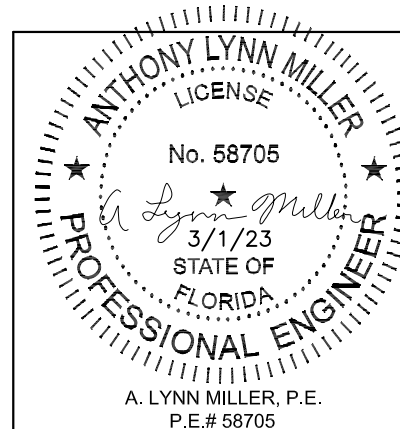
37 **BEAD D**  
#7059, 6063-T6



71 **FRAME**  
**ASSEMBLY TUBE**  
#7004, 6063-T6



70 **ADDON FLANGE**  
#134, 6063-T6



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

REGISTRATION #29296

Revised By:	Date:	Revision:
JR	03/01/23	ADDED BACKBEDDING.
Revised By:	Date:	Revision:

Description:  
**EXTRUSIONS & SPACERS**

Title:  
**AWNING WINDOW DETAILS - NI**

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
AW-640	NTS	12 OF 12	MD-AW640-NI	E

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **23-0303.06**  
Expiration Date: **04/11/2028**  
By: *Manuel Perez*  
**Miami-Dade Product Control**

Drawn By:  
**J ROSOWSKI**

Date:  
**08/08/12**