

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION

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

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 "CA-640" Outswing Aluminum Casement Window – N.I.

APPROVAL DOCUMENT: Drawing No. **MD-CA640-NI**, titled "Casement Window Details – Non Impact", 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. 20-0402.01 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.

MIAMI-DADE COUNTY
APPROVED

NOA No. 23-0303.03 Expiration Date: April 11, 2028 Approval Date: March 30, 2023 7/23/23

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. 12-1218.10)
- 2. Drawing No. MD-CA640-NI, titled "Casement Window Details Non Impact", sheets 1 through 12 of 12, dated 08/08/12, with revision **D** dated 03/13/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (Submitted under NOA No. 20-0402.01)

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. 20-0402.01)

- 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® NXTTM spacer system and XL EdgeTM 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. 16-0629.19)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0303.03

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-640 alum. casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7064**, dated 10/02/12, signed and sealed by Marlin D. Brinson, P.E.

(Submitted under NOA No. 12-1218.10)

- **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 mulled 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. 12-1218,10)

- 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 mulled 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. 12-1218.10)

- **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 mulled 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. 12-1218.10)

Manuel Perez, P.E. Product Control Examiner NOA No. 23-0303.03

Expiration Date: April 11, 2028 Approval Date: March 30, 2023

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** 6th **Edition (2017)**, prepared by manufacturer, dated 06/09/17 and revised and updated to the **FBC** 7th **Edition (2020)** on 03/25/20, signed and sealed by Anthony Lynn Miller, P.E.

(Submitted under NOA No. 20-0402.01)

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 6th Edition (2017) and the FBC 7th Edition (2020), dated March 10, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
 - (Submitted under NOA No. 20-0402.01)
- 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. 20-0402.01)
- 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. 20-0402.01)
- 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. 16-0629.19)

G. OTHERS

1. Notice of Acceptance No. **17-0614.12**, issued to PGT Industries, Inc. for their Series "CA-640" Outswing Aluminum Casement Window - N.I." approved on 09/14/17 and expiring on 04/11/23.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0303.03
Expiration Date: April 11, 2028

Approval Date: March 30, 2023

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. MD-CA640-NI, titled "Casement Window Details – Non Impact", 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.

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 6th Edition (2017) and the FBC 7th 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. **20-0402.01**, issued to PGT Industries, Inc. for their Series "CA-640" Outswing Aluminum Casement Window - N.I." approved on 08/13/20 and expiring on 04/11/23.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0303.03
Expiration Date: April 11, 2028

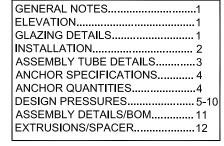
Approval Date: March 30, 2023

GENERAL NOTES: SERIES 640 NON-IMPACT **CASEMENT 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-7064, 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

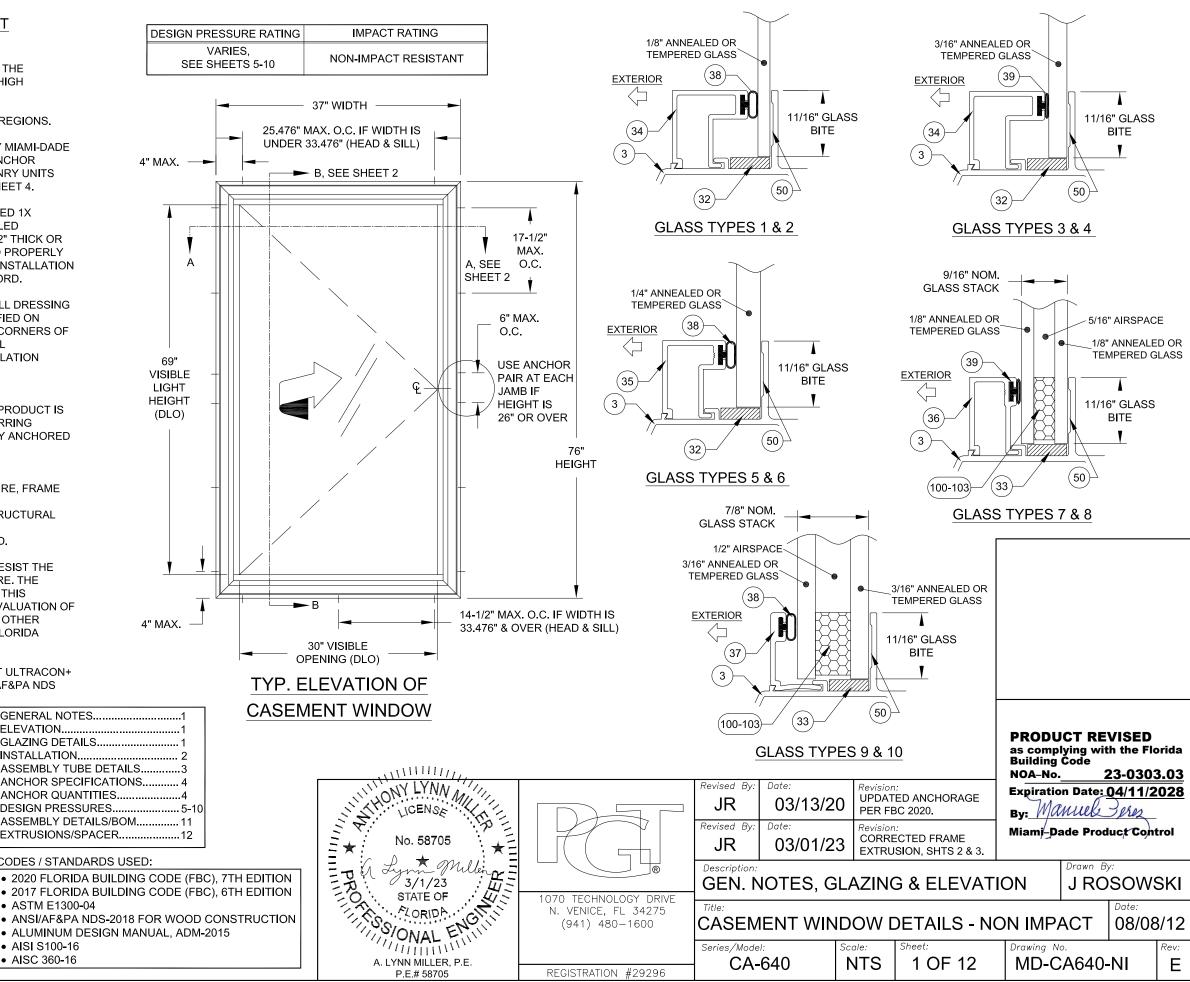
TABLE 1:

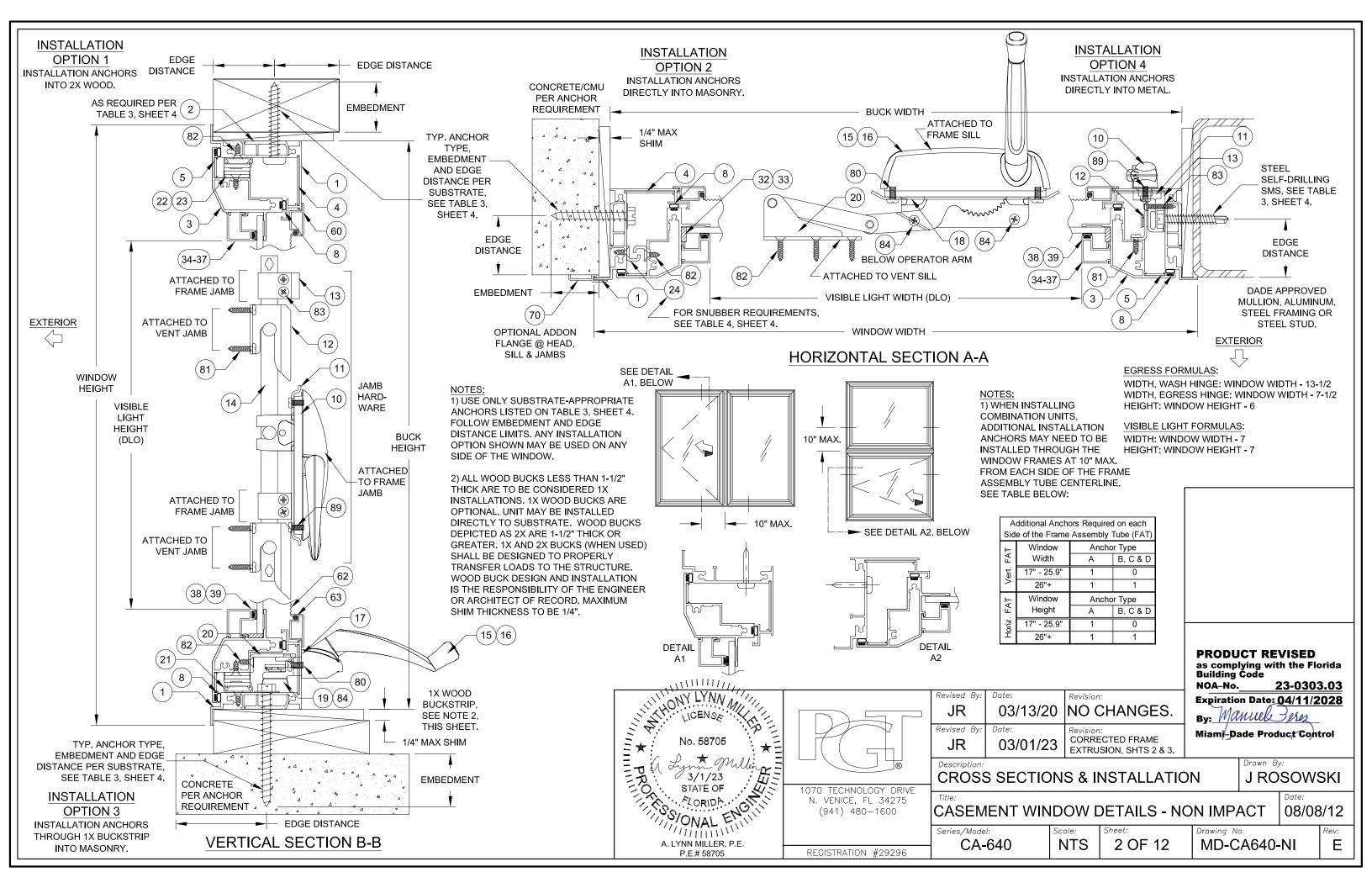
	Glass Types	Sheet #
1	1/8" Annealed	5
2	1/8" Tempered	5
3	3/16" Annealed	6
4	3/16" Tempered	7
5	1/4" Annealed	6
6	1/4" Tempered	7
7	9/16" IG: (1/8" An - 5/16" Air - 1/8" An)	8
8	9/16" IG: (1/8" T - 5/16" Air - 1/8" T)	9
9	7/8" IG: (3/16" An - 1/2" Air - 3/16" An)	10
10	7/8" IG: (3/16" T - 1/2" Air -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



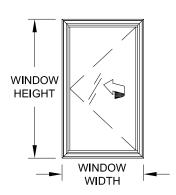
CODES / STANDARDS USED:

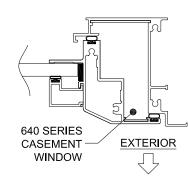
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- ASTM E1300-04
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-16
- AISC 360-16





CASEMENT (X)



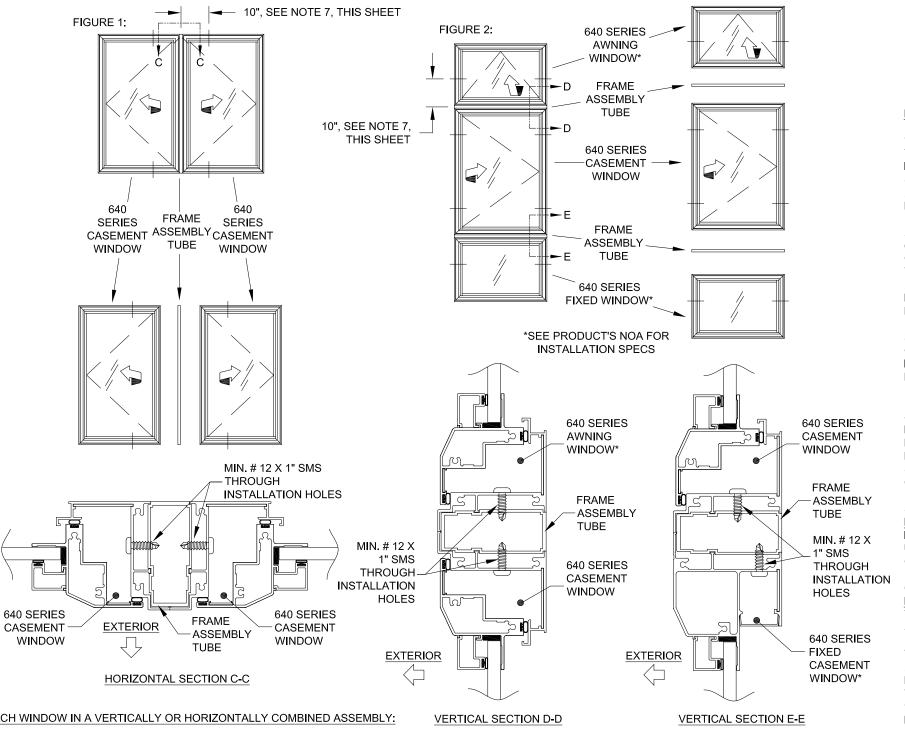


FOR SINGLE UNITS:

- 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 TIP-TO-TIP. 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.

CASEMENT / CASEMENT (XX)

AWNING / CASEMENT / FIXED CASEMENT (XXO)



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 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" (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).

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.03

Expiration Date: 04/11/2028

By: Manuel Peres Miami-Dade Product Control

FRAME SHTS 2 & 3.

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MD-CA640-NI

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CA-640

NON IMPACT

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DETAILS

WINDOW

CASEMENT

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DETAIL

TUBE

ASSEMBLY

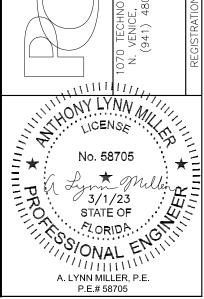
FRAME

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 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
- 6) THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE, ALL EXTERIOR
- 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

	dditional Ancho	•										
Sic	Side of the Frame Assembly Tube (FA											
Н	Window	Ancho	r Type									
FAT	Width	Α	B, C & D									
Vert.	17" - 25.9"	1	0									
>	26"+	1	1									
Þ	Window	Ancho	r Type									
FAT.	Height	Α	B, C & D									
Horiz.	17" - 25.9"	1	0									
Ĭ	26"+	1	1									
		•										

- 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.
- JOINTS TO BE SEALED BY INSTALLER.
- CENTERLINE. SEE TABLE BELOW:



											V	Vindo	ow A	ncho	rs Re	quir	ed													
															Wi	ndow \	Vidth	(in)	7											
				unde	r 23"			25-1	5/16"			27-	3/4"			30)"			33-	1/2"			3	5"			3	7"	_
			A	Ancho	r Grou	р		Ancho	Group)	-	Ancho	r Grou)	-	Anchor	Grou	0	- 1	Ancho	Group)	-	Ancho	Grou	0	-	Ancho	Grou	р
			Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	[
	under 22"	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	1
L	uluel 23	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	2	2	4	3	3	3	5	3	3	M
ſ	25-15/16"	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	
ı		Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	2	2	5	3	3	3	5	3	3	
ſ	38_3/8"	Jamb	6	4	4	4	6	4	4	4	6	4	4	4	6	4	4	4	6	4	4	4	6	4	4	4	6	4	4	
ı		Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	3	2	2	4	3	3	2	5	3	3	3	5	4	3	
Ī	48"	Jamb	6	4	4	4	8	6	4	4	8	6	4	4	8	6	4	4	8	6	4	4	8	6	4	4	8	6	6	
		Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	3	2	2	4	3	3	2	5	3	3	3	5	4	3	-
	50-5/8"	Jamb	8	6	4	4	8	6	4	4	8	6	4	4	8	6	4	4	10	6	6	4	10	6	6	4	10	6	6	
		Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	3	2	2	4	3	3	2	5	3	3	3	5	4	3	
1	60"	Jamb	8	6	6	4	10	6	6	4	10	6	6	4	10	8	6	4	12	8	6	4	12	8	6	4	12	8	6	1
	00	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	3	2	2	4	3	3	2	5	3	3	D A B C 2 2 2 2 2 3 5 3 3 2 2 2 2 2 3 5 3 3 4 6 4 4 3 5 4 3 4 8 6 6 3 5 4 3 4 10 6 6 3 5 4 3 4 112 8 6 3 5 3 3 6 12 8 6 3 5 3 3 6 14 8 8 3 5 3 3 6 14 8 8 3 5 3 3 6 14 8 8				
	63"	Jamb	10	6	6	6	10	6	6	6	10	8	6	6	12	8	6	6	12	8	6	6	12	8	6	6	12	8	6	
	05	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	3	2	2	4	3	3	2	5	3	3	3	5	3	3	
ſ	72"	Jamb	10	8	6	6	12	8	6	6	12	8	8	6	14	8	8	6	14	8	8	6	14	8	8	6	14	8	C	
	12	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	3	2	2	4	3	2	2	5	3	3	3	5	3	3	- 3
ſ	76"	Jamb	12	8	6	6	12	8	8	6	14	8	8	6	14	10	8	6	14	10	8	6	14	10	8	6	14	10	8	
1	70	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	3	2	2	4	3	2	2	4	3	3	3	5	3	3	
	84"	Jamb	12	8	8	6	14	10	8	6	14	10	8	6	16	10	8	6	16	10	8	6								
	04	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	2	2								

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

TABLE 3:

_	100000000000000000000000000000000000000		Min.	Min.	Min.	Anchor
Group	Anchor	Substrate	Edge	O.C.	Embedment	Plate
20.00			Distance	Distance	Embedment	Required?
	#12 steel SMS (CE) or	S. Pine	5/8"	1"	1-3/8"	No
4-1	#12 steel SMS (G5) or	6063-T5 Alum.	3/8"	5/8"	.063"	No
	#14 steel SMS (G5) or #14 410 SS SMS	A36 Steel	3/8"	5/8"	.050"	No
Α	#14 410 33 31013	A653 Stud, Gr. 33	3/8"	5/8"	.045", 20 Ga.	No
200		3k Concrete	1"	3"	1-3/4"	No
	1/4" steel Ultracon+	Hollow Block	1"	3"	1-1/4"	No
		S. Pine	1"	1"	1-3/8"	No
		2.85k Concrete	2-1/2"	4"	1-3/8"	No
В	1/4" steel Ultracon	Hollow Block	1"	6"	1-1/4"	No
		Hollow Block	2-1/2"	5"	1-1/4"	No
	1/4" steel Ultracon	Hollow Block	1"	6"	1-1/4"	Yes
1/4" ot	4/40 -4 1 1 114	3k Concrete	1"	4"	1-3/8"	Yes
С	1/4" steel Ultracon+	Hollow Block	1"	3"	1-1/4"	Yes
C	1/4" 410 SS CreteFlex	3.35k Concrete	1"	5"	1-3/4"	No
	1/4 410 55 Creteriex	Hollow Block	2-1/2"	5"	1-1/4"	No
1	#12 steel SMS (G5) or	S. Pine	5/8"	1"	1-3/8"	Yes
	#12 410 SS SMS or	6063-T5 Alum.	3/8"	5/8"	.0713"	Yes
	#14 steel SMS (G5) or	A36 Steel	3/8"	5/8"	.050"	Yes
	#14 410 SS SMS	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
	1/4 Steel Olliacon	Hollow Block	2-1/2"	5"	1-1/4"	Yes
		Filled Block	2-1/2"	4"	1-3/4"	Yes
D		3.35k Concrete	1"	6"	1-3/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	2-1/2"	6"	1"	Yes
		Hollow Block	2-1/2"	6"	1-1/4"	Yes
	ilan kanani	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 3 3 1 3 5 5 7 5 5 7	3k Concrete	1-5/16"	4"	1-3/8"	Yes
	1/4" steel Ultracon+	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 MIMIMUM 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

CASEMENT ANCHORS:

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.
- C) SIMILARLY, 2 ANCHORS ARE REQUIRED IN THE HEAD & SILL.
- D) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.
- E) 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 _y	Min. F _u
Steel Screw	92 ksi	120 ksi
410 Screw	90 ksi	110 ksi
Elco UltraCon®	155 ksi	177 ksi
1/4" DeWait 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

TABLE 4: **Jamb Snubber Locations** For All Glass Types: 63" and None less Required 12" max. from each end over 63 & 30" max O.C.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.03

Expiration Date: 04/11/2028

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QUANTITY

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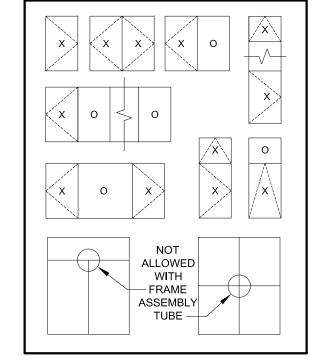
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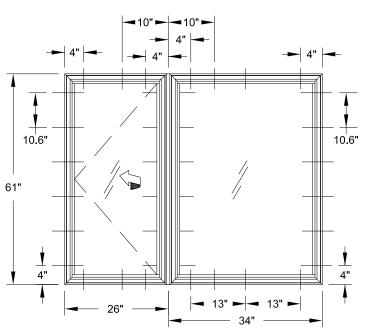
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DETAIL(

WINDOW

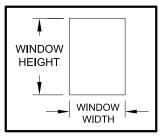
SAMPLE CONFIGURATIONS:





Revised By: J ROSOWSKI	Drawn By: J ROSOWSKI	Description: ANCHOR TYP	Title: CASEMENT W	Series/Model:	0+0-0
		1070 TECHNICIOON DEWE	N. VENICE, FL 34275 (941) 480–1600		REGISTRATION #29296
THE PROPERTY	ALY ALY	No. 587 3/1/2 STATE (PLORIC ONAL //////// NN MILLE PLE#5876	05 MU 23 DF DAG	WEEK *	"Himmy"

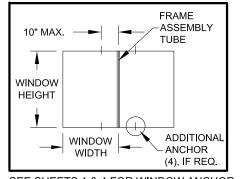
			Design Pres	ssure (psf) fo	r Single Wind	dows, All And	hor Groups	
				1	Window Widtl	h		
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
	under 23"	+/- 79.6	+/- 71.5	+/- 67.9	+/- 64.5	+/- 60.6	+/- 59.2	+/- 57.7
	25-15/16"	+/- 71.5	+/- 70.5	+/- 66.2	+/- 62.1	+/- 57.6	+/- 56	+/- 54.3
	38-3/8"	+/- 56.8	+/- 53.3	+/- 51.6	+/- 50.1	+/- 48.5	+/- 48	+/- 47.7
Height	48"	+/- 52.3	+/- 48.3	+/- 46.4	+/- 44.4	+/- 42	+/- 41.1	+/- 40.2
He	50-5/8"	+/- 51.5	+/- 46.9	+/- 45.4	+/- 43.3	+/- 40.8	+/- 39.9	+/- 39
Window	60"	+/- 45.8	+/- 38	+/- 36.3	+/- 35.9	+/- 36.2	+/- 36	+/- 35.6
Nin	63"	+/- 44.5	+/- 36.2	+/- 33.8	+/- 33	+/- 33.6	+/- 33.6	+/- 33.2
	72"	+/- 41.6	+/- 32	+/- 28.8	+/- 26.8		7.71	
	76"	+/- 40.7	+/- 30.8	+/- 27.4	+/- 25.2			
	84"	+/- 39.4	+/- 29.3	+/- 25.5				



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

TABLE 6:

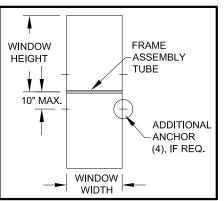
		Design P	ressure (psf)	for Window	s Attached t	o a <u>Vertical</u> I	Frame Asser	mbly Tube					
			Window Width										
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"					
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group					
		All	All	All	All	All	All	All					
	under 23"	+70/-79.6	+70/-71.5	+/-67.9	+/-64.5	+/-60.6	+/-59.2	+/-57.7					
Ħ	25-15/16"	+70/-71.5	+70/-70.5	+/-66.2	+/-62.1	+/-57.6	+/-56	+/-54.3					
eig	38-3/8"	+/-56.8	+/-53.3	+/-51.6	+/-50.1	+/-48.5	+/-48	+/-47.7					
Š	48"	+/-52.3	+/-48.3	+/-46.4	+/-44.4	+/-42	+/-41.1	+/-40.2					
Window Height	50-5/8"	+/-51.5	+/-46.9	+/-45.4	+/-43.3	+/-40.8	+/-39.9	+/-39					
≶	60"	+/-45.8	+/-38	+/-36.3	+/-35.9	+/-36.2	+/-36	+/-35.6					
	63"	+/-44.5	+/-36.2	+/-33.8	+/-33	+/-33.6	+/-33.6	+/-33.2					



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

TABLE 7:

_		Design F	ressure (psf)	for Windows	Attached to	a <u>Horizontal</u>	Frame Asser	nbly Tube
				1	Window Widt	h		
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group
		All	All	All	All	All	All	All
	under 23"	+70/-79.6	+70/-71.5	+/-67.9	+/-64.5	+/-60.6	+/-59.2	+/-57.7
	25-15/16"	+70/-71.5	+70/-70.5	+/-66.2	+/-62.1	+/-57.6	+/-56	+/-54.3
	38-3/8"	+/-56.8	+/-53.3	+/-51.6	+/-50.1	+/-48.5	+/-48	+/-47.7
Height	48"	+/-52.3	+/-48.3	+/-46.4	+/-44.4	+/-42	+/-41.1	+/-40.2
	50-5/8"	+/-51.5	+/-46.9	+/-45.4	+/-43.3	+/-40.8	+/-39.9	+/-39
Window	60"	+/-45.8	+/-38	+/-36.3	+/-35.9	+/-36.2	+/-36	+/-35.6
Vinc	63"	+/-44.5	+/-36.2	+/-33.8	+/-33	+/-33.6	+/-33.6	+/-33.2
>	72"	+/-41.6	+/-32	+/-28.8	+/-26.8			
	76"	+/-40.7	+/-30.8	+/-27.4	+/-25.2			
	84"	+/-39.4	+/-29.3	+/-25.5				



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

NOTES:

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

FOR GLASS TYPES:

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0303.03

Expiration Date: 04/11/2028

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By: Manuel Peres
Miami-Dade Product Control

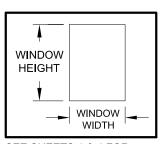
- NON IMPACT CHANGES. GLAZING WINDOW DETAILS 9 PER 03/01/23 DESIGN PRESSURES ROSOWSKI J ROSOWSKI CASEMENT NO FORCE

0 3/1/23

STATE OF

A. LYNN MILLER, P.E.

TAI	BLE 8:											
			Design Pre	ssure (psf) fo	r Single Wind	dows, All And	hor Groups					
Window Width												
under 23" 25-15/16" 27-3/4" 30" 33-1/2" 35"												
	under 23"	+90/-113.7	+90/-102.1	+90/-97	+90/-92.1	+/- 86.6	+/- 84.6	+/- 82.5				
	25-15/16"	+90/-102.1	+90/-100.8	+90/-94.6	+/- 88.7	+/- 82.2	+/- 80	+/- 77.6				
	38-3/8"	+/- 81.1	+/- 76.1	+/- 73.8	+/- 71.5	+/- 69.2	+/- 68.6	+/- 68.2				
Height	48"	+/- 74.7	+/- 69	+/- 66.2	+/- 63.4	+/- 59.9	+/- 58.8	+/- 57.5				
	50-5/8"	+/- 73.5	+/- 67.7	+/- 64.9	+/- 61.9	+/- 58.3	+/- 57.1	+/- 55.7				
Window	60"	+/- 70.3	+/- 64.3	+/- 61.3	+/- 58.1	+/- 54.1	+/- 52.7	+/- 51.1				
Win	63"	+/- 69.5	+/- 63.4	+/- 60.4	+/- 57.2	+/- 53	+/- 51.4	+/- 50				
	72"	+/- 67.6	+/- 61.4	+/- 58.3	+/- 54.3	+/- 43.6	+/- 42.3	+/- 40.7				
	76"	+/- 67	+/- 60.7	+/- 57.6	+/- 52.3	+/- 42.9	+/- 41	+/- 39.4				
	84"	+/- 65.9	+/- 59.6	+/- 56.4	+/- 45.4	+/- 40.1						



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

FOR GLASS TYPES:

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

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.03

Expiration Date: 04/11/2028

By: Manuel Pres Miami-Dade Product Control

CHANGES

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03/01/23

ROSOWSKI

J ROSOWSKI

MD-CA640-NI - NON IMPACT

GLAZING TYPE DESIGN PRESSURES PER

CASEMENT WINDOW DETAILS

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0 3/1/23 STATE OF

A. LYNN MILLER, P.E.

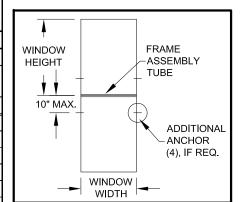
Design	Pressure ((psf) for Wir	ndows Atta	ched to a <u>V</u>	<u>'ertical</u> Frar	ne Assemb	ly Tube					10" MAX	→	 FRAME -ASSEMBLY TUBE
			Windov	v Width										
25-1	5/16"	27-3	3/4"	30	0"	33-	1/2"	3	5"	3	7"			
Ancho	r Group	Anchor	r Group	Ancho	r Group	Ancho	Group	Ancho	Group	Ancho	r Group	WINDOW		
Α	B, C & D	Α	B, C & D	Α	B, C & D	Α	B, C & D	Α	B, C & D	Α	B, C & D	HEIGHT		
+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.6	+70/-86.6	+70/-84.6	+70/-84.6	+70/-82.5	+70/-82.5	<u>†</u>		
+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.7	+70/-88.7	+70/-82.2	+70/-82.2	+70/-80	+70/-80	+70/-77.6	+70/-77.6		WINDOW	ADDITION
70/70 4	170/76 1	170/72 0	170/72 0	170/71 E	170/71 E	LICEE	1/60.2	1/606	1/606	1/602	1/60 2		WIDTH	 - ANCHOR

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

(4), IF REQ.

			7 7						Windov	v Width							
			unde	r 23"		25-1	5/16"	27-	3/4"	30	0"	33-	1/2"	3	5"	3	7"
			Ancho	r Group		Ancho	r Group	Ancho	r Group	Ancho	r Group	Ancho	Group	Ancho	r Group	Anchoi	r Group
		Α	В	С	D	Α	B, C & D	Α	B, C & D	Α	B, C & D	Α	B, C & D	Α	B, C & D	Α	B, C & D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.6	+70/-86.6	+70/-84.6	+70/-84.6	+70/-82.5	+70/-82.5
Height	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.7	+70/-88.7	+70/-82.2	+70/-82.2	+70/-80	+70/-80	+70/-77.6	+70/-77.6
	38-3/8"	+70/-81.1	+70/-76.4	+70/-81.1	+70/-81.1	+70/-76.1	+70/-76.1	+70/-73.8	+70/-73.8	+70/-71.5	+70/-71.5	+/-65.5	+/-69.2	+/-68.6	+/-68.6	+/-68.2	+/-68.2
3	48"	+70/-74.7	+/-61.1	+70/-73.1	+70/-74.7	+/-67.5	+/-69	+/-63.1	+/-66.2	+/-58.4	+/-63.4	+/-52.3	+/-59.9	+/-58.8	+/-58.8	+/-57.5	+/-57.5
indo	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-73.5	+/-64	+/-67.7	+/-59.9	+/-64.9	+/-55.4	+/-61.9	+/-49.6	+/-58.3	+/-57.1	+/-57.1	+/-55.7	+/-55.7
N.	60"	+/-61	+/-48.9	+/-58.5	+70/-70.3	+/-54	+/-64.3	+/-50.5	+/-61.3	+/-46.7	+/-58.1	+/-41.9	+/-54.1	+/-50.1	+/-52.7	+/-47.4	+/-51.1
	63"	+/-58.1	+/-46.5	+/-55.7	+/-69.5	+/-51.5	+/-63.4	+/-48.1	+/-60.4	+/-44.5	+/-57.2	+/-39.9	+/-53	+/-47.7	+/-51.4	+/-45.1	+/-50

			De	esign Press	sure (psf) fo	r Windows	Attached to	a <u>Horizont</u>	al Frame A	ssembly T	ube	
						V	Vindow Wid	th				
	- 9	under 23"	25-15/16"	27-3/4"	30"	33-1/2"		35"			37"	
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Anchor Group	А	nchor Grou	ip	А	nchor Grou	ıp
. 1		All	All	All	All	All	Α	В	C & D	Α	В	C&D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.6	+70/-84.6	+70/-83.8	+70/-84.6	+70/-82.5	+70/-79.2	+70/-82.5
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-88.7	+70/-82.2	+70/-80	+70/-80	+70/-80	+70/-77.6	+70/-77.6	+70/-77.6
1	38-3/8"	+70/-81.1	+70/-76.1	+70/-73.8	+70/-71.5	+/-69.2	+/-68.6	+/-68.6	+/-68.6	+/-68.2	+/-68.2	+/-68.2
Height	48"	+70/-74.7	+/-69	+/-66.2	+/-63.4	+/-59.9	+/-58.8	+/-58.8	+/-58.8	+/-57.5	+/-57.5	+/-57.5
	50-5/8"	+70/-73.5	+/-67.7	+/-64.9	+/-61.9	+/-58.3	+/-57.1	+/-57.1	+/-57.1	+/-55.7	+/-55.7	+/-55.7
Window	60"	+70/-70.3	+/-64.3	+/-61.3	+/-58.1	+/-54.1	+/-52.7	+/-52.7	+/-52.7	+/-51.1	+/-51.1	+/-51.1
Vinc	63"	+/-69.5	+/-63.4	+/-60.4	+/-57.2	+/-53	+/-51.4	+/-51.4	+/-51.4	+/-50	+/-50	+/-50
	72"	+/-67.6	+/-61.4	+/-58.3	+/-54.3	+/-43.6	+/-42.3	+/-42.3	+/-42.3	+/-40.7	+/-40.7	+/-40.7
	76"	+/-67	+/-60.7	+/-57.6	+/-52.3	+/-42.9	+/-41	+/-41	+/-41	+/-39.4	+/-39.4	+/-39.4
	84"	+/-65.9	+/-59.6	+/-56.4	+/-45 4	+/-40 1						



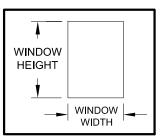
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

TABLE 9:

TABLE 10:

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

TABLE 11: Design Pressure (psf) for Single Windows, All Anchor Groups Window Width 23" 27-3/4" 30" 33-1/2" 35" 37" under 23" +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 under 23' 25-15/16" +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 38-3/8" +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 48" +90/-150 +90/-150 50-5/8" +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 60" +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-146.8 +90/-142.2 63" +90/-150 +90/-148 +90/-139.2 +90/-150 +90/-150 +90/-150 +90/-144 72" +90/-150 +90/-150 +90/-150 +90/-150 +90/-141.6 +90/-137.4 +90/-132.4 +90/-150 +90/-150 +90/-150 +90/-150 +90/-139.4 +90/-135.1 +90/-130 76" 84" +90/-150 +90/-150 +90/-150 +90/-147.7 +90/-135.8



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

FOR GLASS TYPES:

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

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.03

Expiration Date: 04/11/2028

By: Manuel Peres Miami-Dade Product Control

GLAZING

CHANGES

9

03/01/23

ROSOWSKI

J ROSOWSKI

- NON IMPACT **DETAILS** PER

ОЕ / WINDOW

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MD-CA640-NI

12

CA-640

DESIGN PRESSURES CASEMENT

NO 58705

STATE OF AZORIDA OF

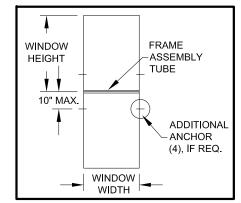
SONAL ENTIN A. LYNN MILLER, P.E.

										Design	Pressure	(psf) for Wir	ndows Atta	ched to a <u>V</u>	ertical Fran	ne Assemb	ly Tube								
			2										Windov	v Width											
			unde	er 23"		' ·	25-15/16"		2 -	27-3/4"			3	0"			33-1/2"			35"			37	7"	
			Ancho	r Group		А	nchor Grou	ıp	А	nchor Grou	ıp		Ancho	r Group		Α	nchor Grou	р	А	nchor Grou	р		Anchor	Group	
		Α	В	С	D	Α	В	C & D	Α	В	C & D	Α	В	С	D	Α	В	C&D	Α	В	C&D	Α	В	С	D
u	nder 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
2	5-15/16"	+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
	38-3/8"	+70/-90	+70/-76.4	+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
	48"	+70/-76.2	+/-61.1	+70/-73.1	+70/-90	+70/-84.4	+70/-90	+70/-90	+70/-78.9	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-90	+70/-78.5	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-82.9	+70/-90	+70/-90	+70/-90
	50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+70/-80.1	+70/-90	+70/-90	+70/-74.8	+70/-90	+70/-90	+70/-83.1	+70/-90	+70/-90	+70/-90	+70/-74.4	+70/-90	+70/-90	+70/-83.1	+70/-90	+70/-90	+70/-78.6	+70/-90	+70/-90	+70/-90
	60"	+/-61	+/-48.9	+/-58.5	+70/-90	+/-67.5	+70/-86.6	+70/-90	+/-63.1	+70/-81	+70/-90	+70/-70.1	+70/-90	+70/-89.6	+70/-90	+/-62.8	+70/-83.9	+70/-90	+70/-70.1	+70/-80.2	+70/-90	+/-66.3	+70/-75.9	+70/-90	+70/-90
	63"	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+/-64.3	+70/-82.5	+70/-90	+/-60.1	+70/-77.1	+70/-90	+/-66.7	+70/-89.1	+70/-85.3	+70/-90	+/-59.8	+70/-79.9	+70/-90	+/-66.7	+70/-76.4	+70/-90	+/-63.1	+70/-72.3	+70/-86.5	+70/-90

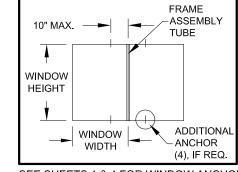
TΑ	RI	F	1	3

TABLE 12:

				De	esign Press	ure (psf) fo	r Windows /	Attached to	a <u>Horizon</u>	tal Frame A	ssembly T	ube		
							W	indow Wid	th	4				
		under 23"	25-15/16"	27-3/4"	30"		33-1/2"			35"			37"	
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	А	nchor Grou	р	A	nchor Grou	р	А	nchor Grou	р
		All	All	All	All	Α	В	C & D	Α	В	C & D	Α	В	C&D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+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/-87.6	+70/-90	+70/-90
224	38-3/8"	+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
ight	48"	+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
운	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
δοχ	60"	+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
Window Height	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
>	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
	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
	84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90						



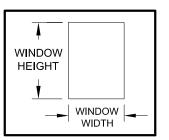
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



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

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

TABLE 14: Design Pressure (psf) for Single Windows, All Anchor Groups Window Width 25-15/16" 27-3/4" 33-1/2" 37" under 23" 30" 35" +90/-98.9 +90/-136.4 +90/-122.5 +90/-116.4 +90/-110.6 +90/-103.9 +90/-101.6 under 23" +90/-113.5 25-15/16" +90/-122.5 +90/-120.9 +90/-106.5 +90/-98.7 +90/-96 +90/-93.1 38-3/8" +90/-97.4 +90/-91.3 +/- 88.5 +/- 85.8 +/- 83.1 +/- 82.4 +/- 81.8 48" +/- 89.7 +/- 82.8 +/- 79.5 +/- 76 +/- 71.9 +/- 70.5 +/- 69 50-5/8" +/- 88.2 +/- 81.3 +/- 77.8 +/- 74.3 +/- 70 +/- 68.5 +/- 66.8 60" +/- 82.4 +/- 68.4 +/- 65.3 +/- 64.7 +/- 65 +/- 63.3 +/- 61.3 63" +/- 65.2 +/- 60.8 +/- 59.5 +/- 59.7 +/- 80.1 +/- 60.5 +/- 60.5 72" +/- 74.9 +/- 57.7 +/- 51.9 +/- 48.3 +/- 48.3 +/- 47.5 +/- 45.8 +/- 73.2 +/- 55.4 +/- 49.3 +/- 44.5 +/- 44.9 +/- 45 76" +/- 45.4 84" +/- 71 +/- 52.7 +/- 45.8 +/- 40.8 +/- 37.8



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. 23-0303.03

Expiration Date: 04/11/2028

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MD-CA640-NI

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CA-640

By: Manuel Peres Miami-Dade Product Control

NO CHANGES.		URES PER GLAZING TYPE	NOW PETAILS - NON IMPAC
03/01/23	Date: 08/08/12	URES PE	AD WOOL

	R GLAZING
<u> </u>	PER
<u>~</u>	SF
9	JRES
9	<u> </u>
	SSI
	(1)

ROSOWSKI

ROSOWSKI

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WINDOW **DESIGN PRE** CASEMENT

HONY LYNN MILL

No. 58705 * Millen

3/1/23 STATE OF A ORIDA SONAL

A. LYNN MILLER, P.E.

Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube Window Width 33-1/2" 35" 37" under 23" 25-15/16" 27-3/4" 30" Anchor Group D B, C & D B, C & D Α В C Α B, C & D Α B, C & D Α Α Α B, C & D Α B, C & D under 23' +70/-90 25-15/16" +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90

+70/-88.

+70/-79.

+70/-77.

+/-65.3

+/-60.8

+70/-73

+/-58.4

+/-55.4

+/-46.7

+/-44.5

+70/-85.8

+70/-76

+70/-74.3

+/-64.7

+/-59.5

70/-81.8

+/-52.3

+/-49.6

+/-41.9

+/-39.9

+70/-83.

+70/-71.9

+/-70

+/-65

+/-60.5

+70/-78.3

+/-62.6

+/-59.3

+/-50.1

+/-47.7

+70/-82.4

+70/-70.5

+/-68.5

+/-63.3

+/-60.5

+70/-74

+/-59.2

+/-56.1

+/-47.4

+/-45.1

10" MAX. WINDOW **HEIGHT** WINDOW WIDTH +70/-81. +/-69 +/-66.8 +/-61.3 +/-59.7

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

FRAME

TUBE

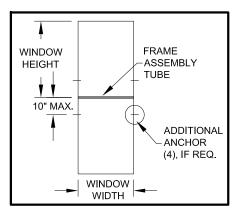
-ASSEMBLY

ADDITIONAL

ANCHOR

(4), IF REQ.

TABLE 16: Design Pressure (psf) for Windows Attached to a Horizontal Frame Assembly Tube Window Width under 23" 25-15/16 27-3/4" 30" 33-1/2" 35" 37" Anchor Anchor Anchor Anchor Anchor Group Anchor Group Anchor Group Group Group Group Group All All C&D C&D A C&D A +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-87.6 +70/-90 +70/-90 +70/-83.8 +70/-90 +70/-90 +70/-79.2 +70/-90 under 23' 25-15/16 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 -70/-87.6 +70/-90 +70/-90 38-3/8" +70/-90 +70/-90 +70/-88. +70/-85.8 +70/-83.1 +70/-83.1 +70/-83. +70/-82.4 +70/-82.4 +70/-82. +70/-81.8 +70/-81.8 +70/-81.8 48" +70/-89.7 +70/-82. +70/-79.5 +70/-76 +70/-71.9 +70/-71.9 +70/-71. +70/-70.5 -70/-70.5 +70/-70. +/-69 +/-69 +/-69 +/-66.8 50-5/8" +70/-88.2 +70/-81.3 +70/-77.8 +70/-74.3 +/-70 +/-70 +/-70 +/-68.5 +/-68.5 +/-68.5 +/-66.8 +/-66.8 +70/-82.4 +/-68.4 +/-65.3 +/-64.7 +/-65 +/-65 +/-65 +/-63.3 +/-63.3 +/-63.3 +/-61.3 +/-61.3 +/-61.3 +70/-80.1 +/-65.2 +/-60.8 +/-59.5 +/-60.5 +/-60.5 +/-60.5 +/-60.5 +/-60.5 +/-59.7 +/-59.7 63" +/-60.5 +/-59.7 72" +70/-74.9 +/-57.7 +/-51.9 +/-48.3 +/-48.3 +/-48.3 +/-48.3 +/-47.5 +/-47.5 +/-47.5 +/-45.8 +/-45.8 +/-45.8 76" +70/-73.2 +/-55.4 +/-49.3 +/-45.4 +/-44.5 +/-44.5 +/-44.5 +/-44.9 +/-44.9 +/-44.9 +/-45 +/-45 +/-45 84" +70/-71 +/-52.7 +/-45.8 +/-40.8 +/-37.8 +/-37.8 +/-37.8



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:

38-3/8"

48"

50-5/8'

60"

63"

+70/-90

+70/-76.2

+70/-72.3

+/-61

+/-58.1

-70/-76.4

+/-61.1

+/-57.9

+/-48.9

+/-46.5

+70/-90

+70/-73.1

+/-69.3

+/-58.5

+/-55.7

+70/-90

+70/-89.

+70/-88.

+70/-82.

+70/-80.

+70/-84.5

+/-67.5

+/-64

+/-54

+/-51.5

+70/-90

+70/-82.8

+70/-81.

+/-68.4

+/-65.2

+70/-79

+/-63.1

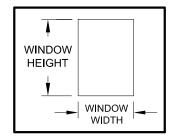
+/-59.9

+/-50.5

+/-48.

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

TABLE 17: Design Pressure (psf) for Single Windows, All Anchor Groups Window Width under 23" 25-15/16" 27-3/4" 35" 37" 30" 33-1/2" +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 under 23" 25-15/16" +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 38-3/8" +90/-150 +90/-150 +90/-150 +90/-150 48" +90/-150 +90/-150 +90/-150 +90/-150 +90/-149.4 +90/-150 +90/-150 50-5/8" +90/-150 +90/-150 +90/-150 +90/-150 +90/-150 +90/-148.4 +90/-144.7 60" +90/-150 +90/-150 +90/-150 +90/-150 +90/-140.8 +90/-137 +90/-132.8 63" +90/-150 +90/-150 +90/-150 +90/-148.6 +90/-138.2 +90/-134.4 +90/-130 72" +90/-150 +90/-150 +90/-150 +90/-143.1 +/- 48.3 +/- 47.5 +/- 45.8 76" +90/-150 +90/-150 +90/-149.8 +90/-141.1 +/- 44.5 +/- 44.9 +/- 45 84" +90/-150 +90/-150 +90/-146.7 +/- 40.8 +/- 37.8



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)

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.03

Expiration Date: 04/11/2028

By: Manuel Peres Miami-Dade Product Control

CHANGES 9

03/01/23

ROSOWSKI

FRAME -ASSEMBLY

TUBE

ADDITIONAL

(4), IF REQ.

- ANCHOR

10" MAX. —►

WINDOW

WIDTH

3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY

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

WINDOW

HEIGHT

TUBE.

J ROSOWSKI

- NON IMPACT GLAZING PER

12 **DETAILS** OF 6 WINDOW

NTS

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MD-CA640-NI

CASEMENT CA-640

DESIGN PRESSURES

HONY LYNN MILL No. 58705

0 3/1/23 STATE OF

SONAL ENIL ONAL ENTIN

A. LYNN MILLER, P.E. P.E.# 58705

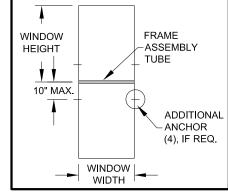
Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly T

4 4 4										Design Pres	ssure (psf) fo	or Windows	Attached t	to a <u>Vertica</u>	I Frame As	sembly Tub	be								
												V	/indow Wid	th											
		unde	r 23"	1		25-15/16"			27-3/4"			3	0"			33-	1/2"			35"		T =	37	/"	
		Ancho	Group		Α	nchor Grou	ıp	Α	nchor Grou	ıb		Ancho	r Group			Ancho	r Group		Α	nchor Grou	ıp		Anchor	Group	1
	Α	В	С	D	Α	В	C&D	Α	В	C&D	Α	В	С	D	Α	В	С	D	Α	В	C&D	Α	В	С	D
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
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
38-3/8"	+70/-90	+70/-76.4	+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
48"	+70/-76.2	+/-61.1	+70/-73.1	+70/-90	+70/-84.4	+70/-90	+70/-90	+70/-78.9	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-90	+70/-78.5	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-82.9	+70/-90	+70/-90	+70/-90
50-5/8"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+70/-80.1	+70/-90	+70/-90	+70/-74.8	+70/-90	+70/-90	+70/-83.1	+70/-90	+70/-90	+70/-90	+70/-74.4	+70/-90	+70/-90	+70/-90	+70/-83.1	+70/-90	+70/-90	+70/-78.6	+70/-89.9	+70/-90	+70/-90
60"	+/-61	+/-48.9	+/-58.5	+70/-90	+/-67.5	+70/-86.6	+70/-90	+/-63.1	+70/-81	+70/-90	+70/-70.1	+70/-90	+70/-89.6	+70/-90	+/-62.8	+70/-83.9	+70/-80.3	+70/-90	+/-60.1	+70/-80.2	+70/-90	+/-66.3	+70/-75.9	+70/-90	+70/-90
63"	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+/-64.3	+70/-82.5	+70/-90	+/-60.1	+70/-77.1	+70/-90	+/-66.7	+70/-71.3	+70/-85.3	+70/-90	+/-59.8	+70/-79.9	+70/-76.5	+70/-90	+/-57.2	+70/-76.4	+70/-90	+/-63.1	+70/-72.3	+70/-86.5	+70/-90

TABLE 19:

TABLE 18:

				De	esign Press	ure (psf) fo	r Windows /	Attached to	a <u>Horizon</u>	tal Frame A	ssembly T	ube		
							W	indow Wid	th					
İ		under 23"	25-15/16"	27-3/4"	30"		33-1/2"			35"			37"	
l		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Д	nchor Grou	р	A	nchor Grou	р	А	nchor Grou	р
		All	All	All	All	Α	В	C&D	Α	В	C&D	Α	В	C & D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+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/-87.6	+70/-90	+70/-90
	38-3/8"	+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
Height	48"	+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
문	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
Window	60"	+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
Vinc	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
>	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
	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
	84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90						

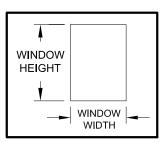


LOCATIONS AND QUANTITIES, SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

SEE SHEETS 1 & 4 FOR WINDOW ANCHOR

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

TABLE 20: Design Pressure (psf) for Single Windows, All Anchor Groups Window Width 37" under 23" | 25-15/16" 27-3/4" 30" 33-1/2" 35" +90/-123.6 +90/-150 +90/-150 +90/-145.5 +90/-138.2 +90/-129.8 +90/-126.9 under 23" 25-15/16" +90/-150 +90/-150 +90/-141.8 +90/-133.1 +90/-123.3 +90/-120 +90/-116.3 38-3/8" +90/-121.7 +90/-114.1 +90/-110.6 +90/-107.2 +90/-103.8 +90/-102.9 +90/-102.3 48" +90/-112.1 +90/-103.5 +90/-99.3 +90/-95 +/- 89.9 +/- 88.1 +/- 86.2 50-5/8" +90/-110.3 +90/-101.6 +90/-97.3 +90/-92.8 +/- 87.4 +/- 85.6 +/- 83.5 60" +90/-105.4 +90/-96.4 +90/-91.9 +/- 87.1 +/- 81.2 +/- 76.6 +/- 79 63" +90/-104.3 +90/-95.1 +90/-90.6 +/- 85.7 +/- 79.7 +/- 77.5 +/- 75 +90/-92.1 +/- 87.5 +/- 82.5 +/- 76.3 +/- 74 +/- 71.3 72" +90/-101.4 76" +90/-100.4 +90/-91.1 +/- 86.4 +/- 81.4 +/- 75.1 +/- 72.7 +/- 70 +/- 89.3 +/- 72.2 84" +90/-98.7 +/- 84.6 +/- 79.5



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

FOR GLASS TYPES:

9) 7/8" IG: (3/16" An - 1/2" Air - 3/16" An) 10) 7/8" IG: (3/16" T - 1/2" Air - 3/16" T)

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.03

Expiration Date: 04/11/2028

By: Manuel Peres Miami-Dade Product Control

CHANGES GLAZING 9

03/01/23

ROSOWSKI

FRAME ASSEMBLY

TUBE

ADDITIONAL

(4), IF REQ.

- ANCHOR

10" MAX.

WINDOW

WIDTH

3 FOR ANY ADDITIONAL ANCHORS

REQUIRED FOR THE FRAME ASSEMBLY

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

WINDOW HEIGHT

TUBE.

- NON IMPACT **DETAILS**

<u>§</u>

MD-CA640-NI

12

No 59705

0 3/1/23

ONAL ENTIN

OF PER 10 DESIGN PRESSURES WINDOW NTS J ROSOWSKI CASEMENT CA-640

STATE OF

A. LYNN MILLER, P.E.

Design Pressure (psf) for Windo	ows Attached to a <u>Vertical</u> Frame Assembly Tube
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									Design	Pressure ((psf) for Wii	ndows Attac	ched to a <u>V</u>	<u>ertical</u> Fran	ne Assemb	ly Tube								- 4
Ī		Window Width																						
1		under 23" 25-15/16"							27-3/4"		30"				33-1/2"			35"			37"			
	Anchor Group				Anchor Group			Anchor Group		Anchor Group			Anchor Group			Anchor Group			Anchor Group					
	Α	В	С	D	Α	В	C&D	Α	В	C & D	Α	В	С	D	Α	В	С	D	Α	В	C & D	Α	В	C&D
3"	+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
6"	+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/-76.4	+70/-90	+70/-90	+70/-84.5	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-81.8	+70/-90	+70/-90	+70/-90	+70/-78.3	+70/-90	+70/-90	+70/-88.8	+70/-90	+70/-90
	+70/-76.2	+/-61.1	+70/-73.1	+70/-90	+/-67.5	+70/-90	+70/-90	+/-63.1	+70/-90	+70/-90	+70/-73	+70/-90	+70/-90	+70/-90	+/-65.4	+70/-83.9	+70/-89.9	+70/-89.9	+/-62.6	+70/-88.1	+70/-88.1	+/-59.2	+70/-86.2	+70/-86.2
"	+70/-72.3	+/-57.9	+/-69.3	+70/-90	+/-64	+70/-90	+70/-90	+/-59.9	+70/-90	+70/-90	+/-55.4	+70/-88.7	+70/-90	+70/-90	+/-62	+70/-79.5	+70/-87.4	+70/-87.4	+/-59.3	+70/-85.6	+70/-85.6	+/-56.1	+70/-83.5	+70/-83.5
	+/-61	+/-48.9	+/-58.5	+70/-90	+/-54	+70/-86.6	+70/-90	+/-50.5	+70/-81	+70/-90	+/-46.7	+70/-74.9	+70/-87.1	+70/-87.1	+/-52.3	+/-67.1	+70/-80.3	+70/-81.2	+/-50.1	+70/-79	+70/-79	+/-47.4	+70/-75.9	+70/-76.6
	+/-58.1	+/-46.5	+/-55.7	+70/-88.7	+/-51.5	+70/-82.5	+70/-90	+/-48.1	+70/-77.1	+70/-90	+/-44.5	+70/-71.3	+70/-85.3	+70/-85.7	+/-49.8	+/-63.9	+70/-76.5	+70/-79.7	+/-47.7	+70/-76.4	+70/-77.5	+/-45.1	+70/-72.3	+70/-75

TABLE 22:

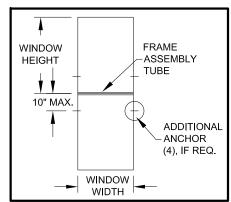
TABLE 21:

under 23' 25-15/16 38-3/8" 48"

50-5/8"

60" 63"

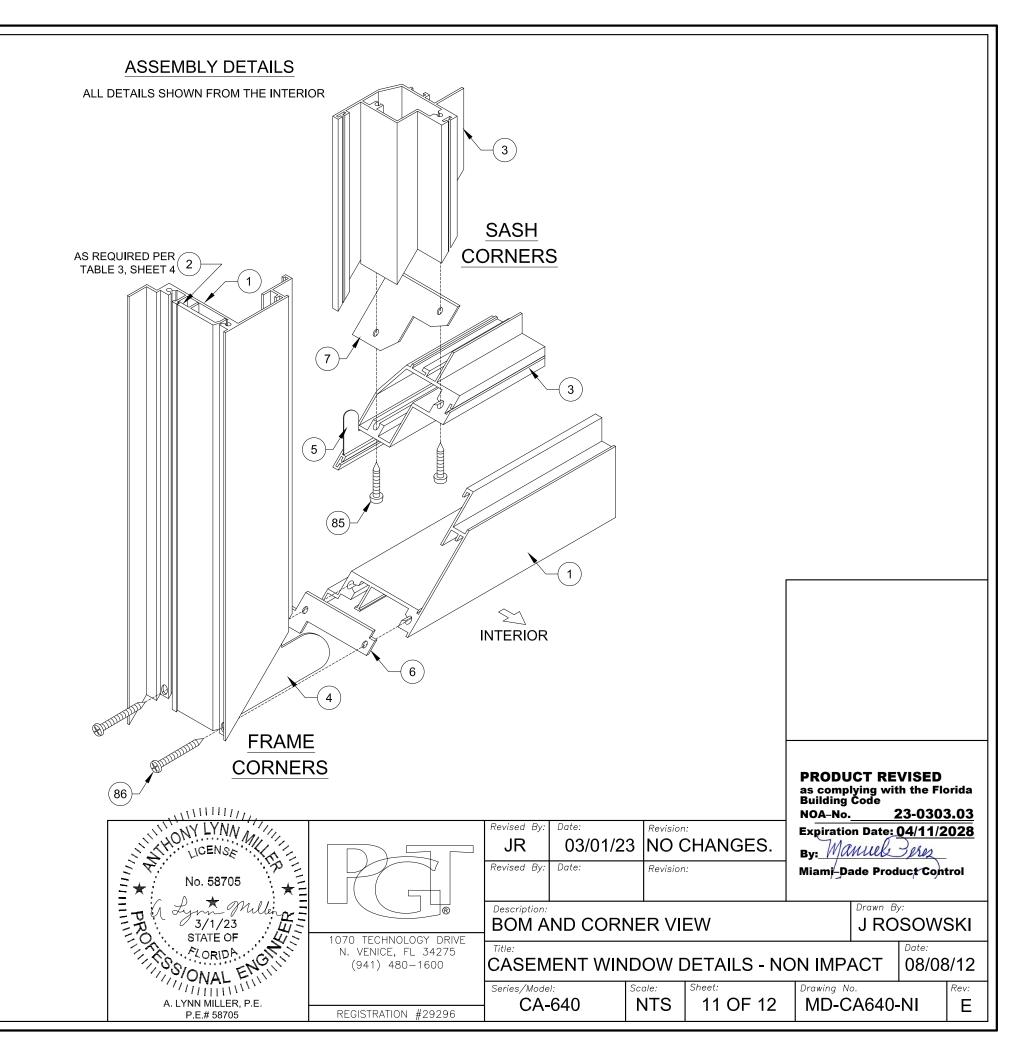
				De	esign Press	sure (psf) for	r Windows	Attached to	a <u>Horizont</u>	al Frame A	ssembly To	ube			
	\frac{1}{3}	Window Width													
		under 23"	25-15/16"	27-3/4"	30"		33-1/2"			35"		37"			
L		Anchor Group	Anchor Group	Anchor Group	Anchor Group	А	nchor Grou	p	А	nchor Grou	р	А	nchor Grou	ip	
		All	All	All	All	Α	В	C & D	Α	В	C&D	Α	В	C&D	
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+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/-87.6	+70/-90	+70/-90	
	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.8	+70/-90	+70/-90	
Height	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.9	+70/-89.9	+70/-89.9	+70/-88.1	+70/-88.1	+70/-88.1	+70/-86.2	+70/-86.2	+70/-86.2	
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.4	+70/-87.4	+70/-87.4	+70/-85.6	+70/-85.6	+70/-85.6	+70/-83.5	+70/-83.5	+70/-83.5	
Not	60"	+70/-90	+70/-90	+70/-90	+70/-87.1	+70/-81.2	+70/-81.2	+70/-81.2	+70/-79	+70/-79	+70/-79	+70/-75.8	+70/-76.6	+70/-76.6	
Window	63"	+70/-90	+70/-90	+70/-90	+70/-85.7	+70/-79.7	+70/-79.7	+70/-79.7	+70/-76.3	+70/-77.5	+70/-77.5	+70/-72.2	+70/-75	+70/-75	
^	72"	+70/-90	+70/-90	+70/-87.5	+70/-82.5	+70/-76.3	+70/-76.3	+70/-76.3	+70/-74	+70/-74	+70/-74	+70/-71.3	+70/-71.3	+70/-71.3	
	76"	+70/-90	+70/-90	+70/-86.4	+70/-81.4	+70/-75.1	+70/-75.1	+70/-75.1	+70/-72.7	+70/-72.7	+70/-72.7	+/-70	+/-70	+/-70	
	84"	+70/-90	+70/-89.3	+70/-84.6	+70/-79.5	+70/-72.2	+70/-72.2	+70/-72.2							

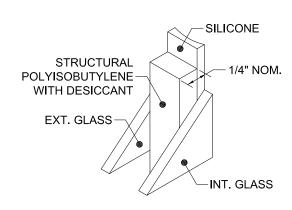


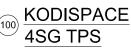
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

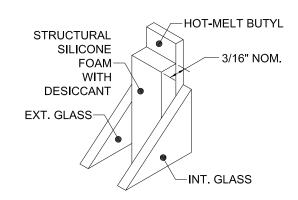
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

	Dwg. #	Description	Material
1	7002	Main Frame Head, Sill & Jamb	6063-T6 Alun
2	7071	Anchor Plate	6063-T6 Alur
3	7003	Sash Top, Bottom & Side Rail	6063-T6 Alur
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 7
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
15	7028	Maxim Dyad Operator, WW<=24"	Steel
16	7027	Maxim Dual Arm Operator, WW>24"	Steel
17	7027	Operator Gasket	Vinyl Foam
18	7030	Operator Backing Plate	Steel
19	7051	Operator Spacer Block	Nylon
20	7031	Stud Bracket	Steel
21	7032	Operator Track & Slider (Dual Arm)	Steel
22	7033		Steel
	7023	Egress Hinge (Heavy Duty), Manuf. by Truth	
23	7050	Egress Hinge/Washable (HD), Manuf. by Truth	Steel
24	4740	Snubber, Anti-blowout Clip	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 Alur
35	7036	Bead B	6063-T6 Alur
36	7042	Bead C	6063-T6 Alur
37	7059	Bead D	6063-T6 Alur
38	1224	Vinyl Bulb Wstp (Thick)	Flex PVC 7
39	1225	Vinyl Bulb Wstp (Thin)	Flex PVC 7
50		Dow 791, 899 or 983 Backbedding	Silicone
60	7006	Screen Frame	3105-H14 Alu
61	7040	Screen Corner Key	Polypropoler
62		Screen Cloth	Fiberglass
63	1635	Screen Spline	EM. PVC
64	320	Screen Spring	Stainless Ste
70	134	Add-on Flange	6063-T6 Alur
71	7004	Frame Assy Tube	6063-T6 Alur
80		#8-32 x 1/2" Ph. Pn. Mach. Scr TYPE B	Stainless Ste
81	1157	#8 x 1/2" Ph. Pn. SMS	Stainless Ste
82		#8 x 5/8" Fl. Ph. SMS	Stainless Ste
83		#8 x 7/8" Fl. Ph. SMS	Stainless Ste
84		#8 x 1" Fl. Ph. TEK	Stainless Ste
85		#8 x 1" Quad Pn SMS	Stainless Ste
86		#8 X 1-1/2" Quad Pn SMS	Stainless Ste
87		#10 x 1/2" Ph. Pn./ TEK	Stainless Ste
89		#10-24 x 9/16" Ph. Pn. TYPE F	Stainless Ste
90		#12 x 1" Ph. Pn. TEK	Stainless Ste

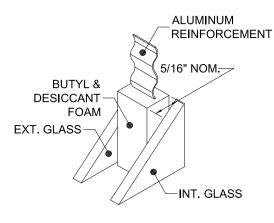




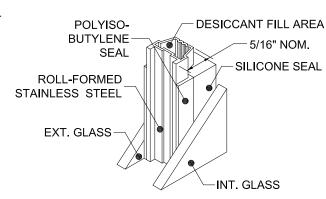




SUPER $\overline{\mathsf{SPACE}}\mathsf{R}^{\mathbb{R}}\mathsf{NXT}^{\mathsf{TM}}$



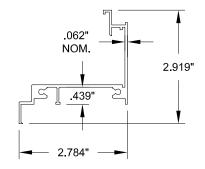
DURASEAL® **SPACER**



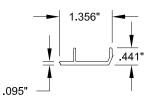
 $\underline{\mathsf{XL}}\ \mathsf{EDGE}^\mathsf{TM}$

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

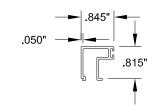
REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970



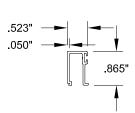
FRAME HEAD, SILL & JAMB #7002, 6063-T6



ANCHOR PLATE #7071, 6063-T6



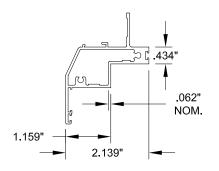
BEAD A #7037, 6063-T6



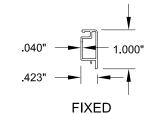
BEAD C #7042, 6063-T6

No. 58705

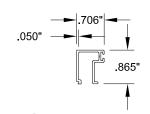
A LYNN MILLER, P.E.
P.E.# 58705



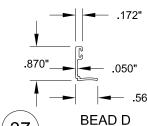
SASH TOP, **BOTTOM & SIDE** #7003, 6063-T6



SCREEN FRAME 60 #7006, 3105-H14



BEAD B 35 #7036, 6063-T6



37 #7059, 6063-T6

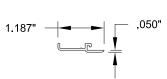
Revised By:

Revised By:

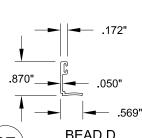
JR

	── 1.124" ──
.125"	—
	2.701"
.062"	
	.093"
71	FRAME

ASSEMBLY TUBE #7004, 6063-T6



ADDON FLANGE #134, 6063-T6



PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.03

Expiration Date: 04/11/2028

By: Manuel Peres

Miami-Dade Product Control

EXTRUSIONS & SPACERS

03/01/23

Drawn By: J ROSOWSKI

CASEMENT WINDOW DETAILS - NON IMPACT

NO CHANGES.

Drawing No.

MD-CA640-NI

N. VENICE, FL 34275 (941) 480-1600 Series/Model: CA-640 REGISTRATION #29296

1070 TECHNOLOGY DRIVE

NTS

12 OF 12

Revision:

Revision:

08/08/12