

# 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-640F Fixed Casement" Aluminum Fixed Window - N.I.

**APPROVAL DOCUMENT:** Drawing No. **MD-CA640F-NI**, titled "Fixed Casement Window Details - NI", sheets 1 through 10 of 10, dated 08/08/12, with revision **D** dated 03/13/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

# MISSILE IMPACT RATING: None.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA# 17-0614.13** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Sifang Zhao, P.E.





08/06/2020

NOA No. 20-0401.13 Expiration Date: April 11, 2023 Approval Date: August 06, 2020 Page 1

# **NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

# 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

# A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 12-1218.12)
  - 2. Drawing No. MD-CA640F-NI, titled "Fixed Casement Window Details NI", sheets 1 through 10 of 10, dated 08/08/12, with revision C dated 05/25/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

# B. TESTS

4.

1. 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<sup>®</sup> spacer system, Super Spacer<sup>®</sup> NXT<sup>TM</sup> spacer system and XL Edge<sup>TM</sup> 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 previous NOA No. 16-0629.20)

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94

2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94

3) Water Resistance Test, per FBC, TAS 202-94

along with marked-up drawings and installation diagram of a series CA640F aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-7060**, dated 09/07/12, signed and sealed by Marlin D. Brinson, P.E. *(Submitted under NOA No. 12-1218.12)* 

- **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-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. 12-1218.12)

- 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. 12-1218.12)* 

# **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

# **B. TESTS** (CONTINUED)

- 5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 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. 12-1218.12)* 

# C. CALCULATIONS

- Anchor verification calculations and structural analysis, complying with FBC 5<sup>th</sup> Edition (2014), and with the FBC 6<sup>th</sup> Edition (2017), dated 06/09/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 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 5<sup>th</sup> Edition (2014) and with FBC 6<sup>th</sup> Edition (2017), dated August 29, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest, dated June 9, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- **3.** Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E. *(Submitted under previous NOA No. 16-0629.20)*

# G. OTHERS

1. Notice of Acceptance No. **16-0629.20**, issued to PGT Industries, Inc. for their Series "CA-640F Fixed Casement" Aluminum Fixed Window - N.I." approved on 08/11/16 and expiring on 04/11/18.

# 2. NEW EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

# A. DRAWINGS

1. Drawing No. **MD-CA640F-NI**, titled "Fixed Casement Window Details -NI", sheets 1 through 10 of 10, dated 08/08/12, with revision **D** dated 03/13/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

# **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

## **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

# C. CALCULATIONS

 Anchor verification calculations and structural analysis, complying with FBC-6<sup>th</sup> Edition (2017) and FBC-7<sup>th</sup> (2020) dated 03/19/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

# D. QUALITY ASSURANCE

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

# E. MATERIAL CERTIFICATIONS

1. None.

# F. STATEMENTS

- Statement letter of conformance, complying with FBC-6<sup>th</sup> Edition (2017) and FBC-7<sup>th</sup> Edition (2020), dated 03/10/20, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest, dated 03/10/20, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- **3.** Proposal No. **19-1155 TP** issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.

# G. OTHERS

1. Notice of Acceptance No. **17-0614.13**, issued to PGT Industries, Inc. for their Series "CA-640F Fixed Casement" Aluminum Fixed Window - N.I." approved on 10/12/2017 and expiring on 04/11/23.

Sifang Zhao, P.E. Product Control Examiner NOA No. 20-0401.13 Expiration Date: April 11, 2023 Approval Date: August 06, 2020

### **GENERAL NOTES: SERIES 640** NON-IMPACT FIXED 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-7060, 3579, 3580, 3724; DEWALT ULTRACON+ NOA; ELCO ULTRACON NOA; DEWALT/ELCO CRETEFLEX NOA: ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL

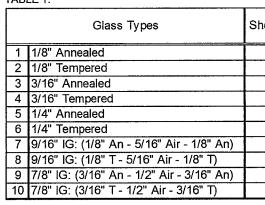
#### CODES / STANDARDS USED:

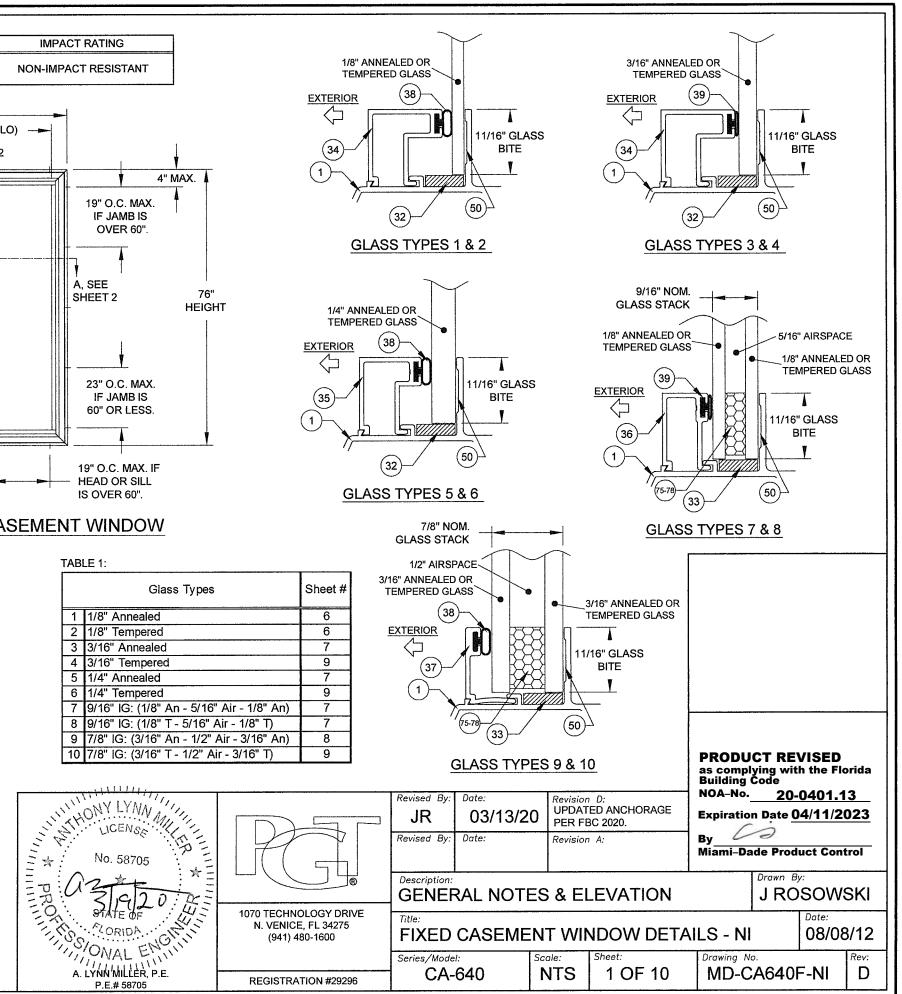
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- ASTM E1300-04
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-16 • AISC 360-16

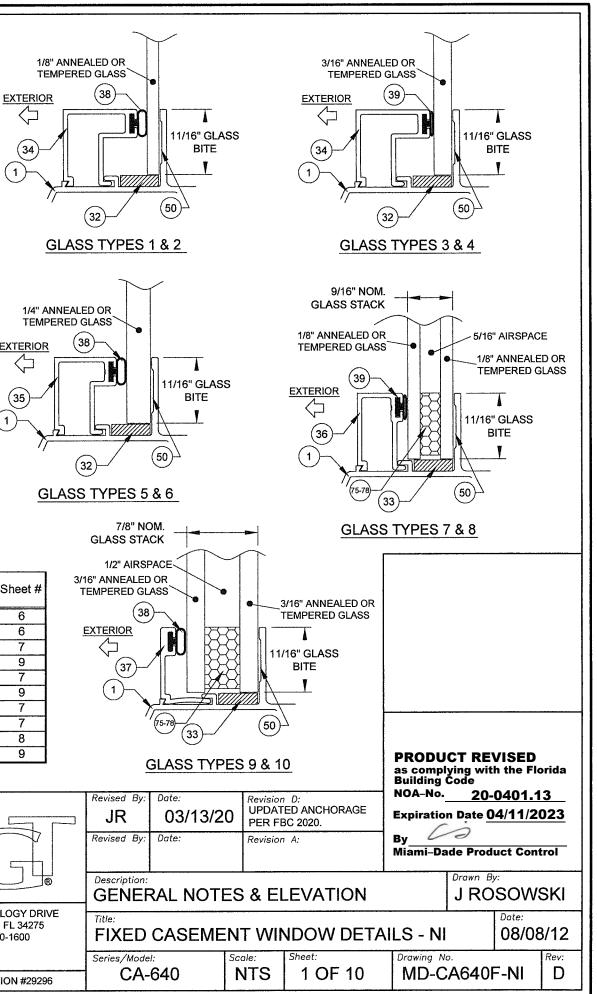
DESIGN PRESSURE RATING VARIES. NON-IMPACT RESISTANT SEE SHEETS 6-9 60" WIDTH - B. SEE SHEET 2 4" MAX. ----4" MAX. 19" O.C. MAX. IF JAMB IS OVER 60". A, SEE Α 69" 76" SHEET 2 VISIBLE HEIGHT LIGHT HEIGHT (DLO) 23" O.C. MAX. IF JAMB IS 60" OR LESS. 23" O.C. MAX. IF 19" O.C. MAX. IF HEAD OR SILL HEAD OR SILL IS 60" OR LESS. IS OVER 60".

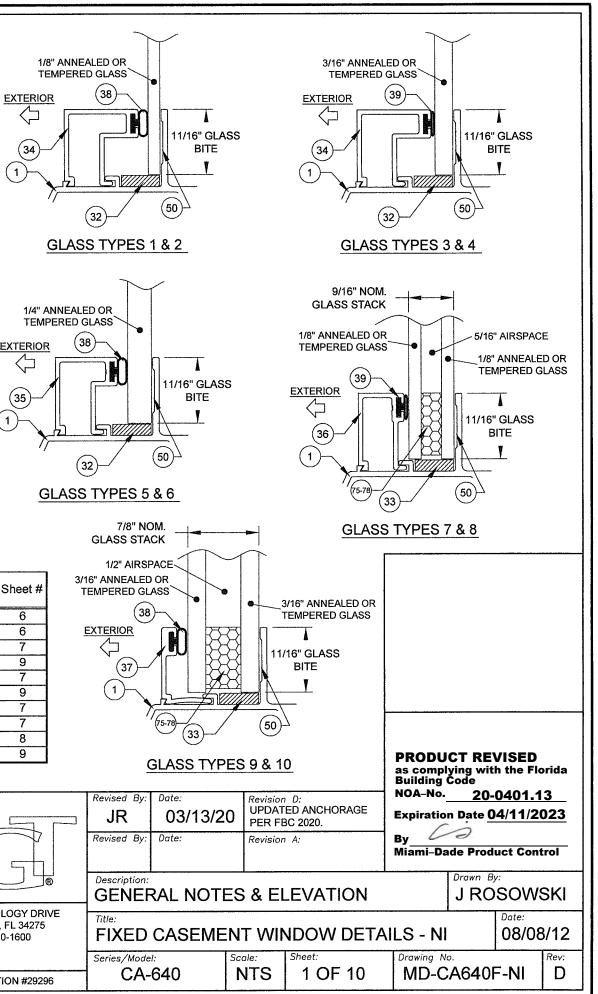
# TYP. ELEVATION OF FIXED CASEMENT WINDOW

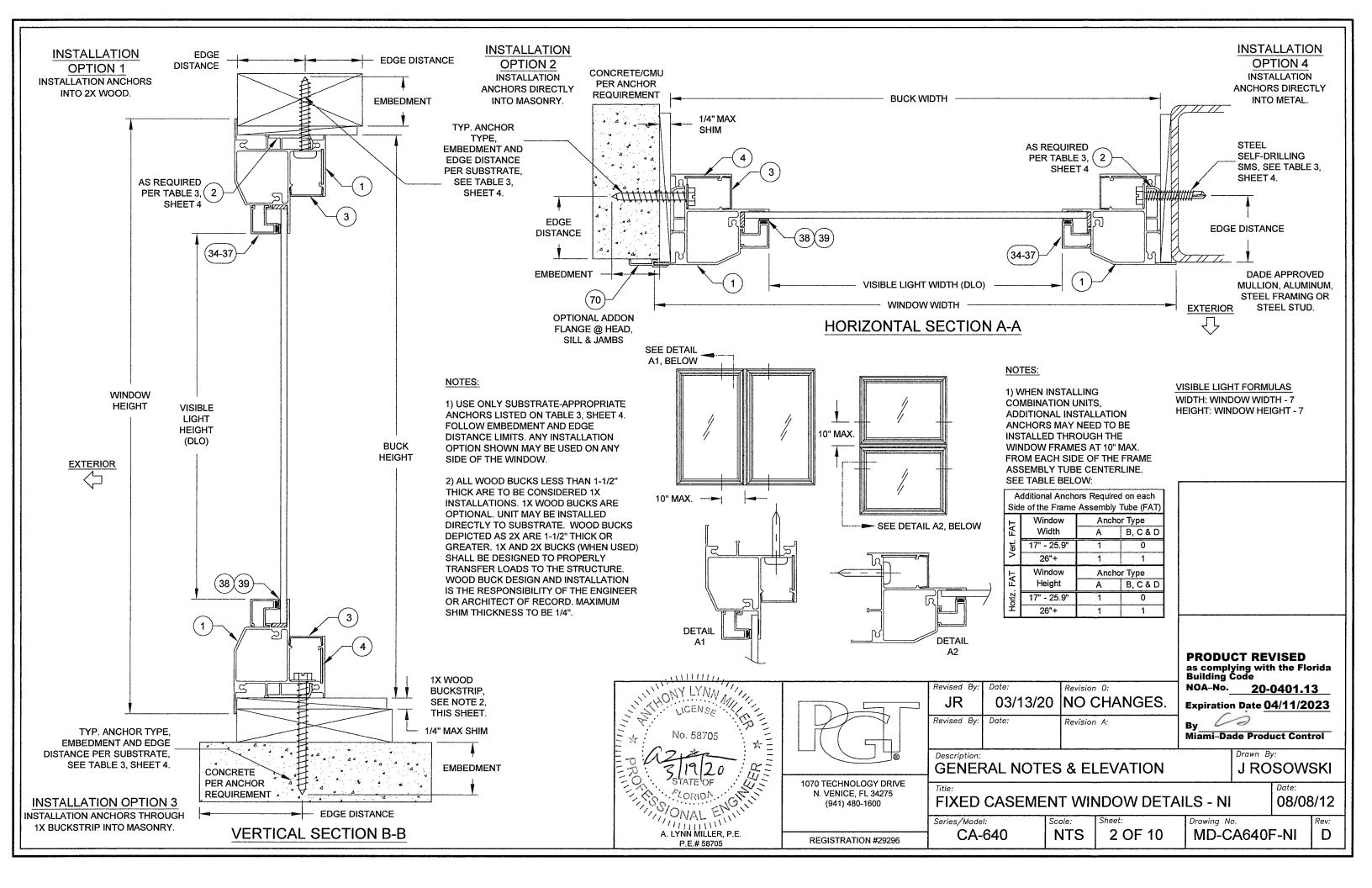
GENERAL NOTES	1
ELEVATION	1
GLAZING DETAILS	1
INSTALLATION	2
ASSEMBLY TUBE DETAILS	3
ANCHOR SPECIFICATIONS	4
ANCHOR QUANTITIES	4-5
DESIGN PRESSURES	6-9
ASSEMBLY DETAILS/BOM	10







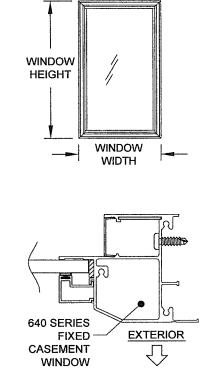




# FIXED CASEMENT (O)

## FIXED CASEMENT / CASEMENT (OX)

# AWNING / CASEMENT / FIXED CASEMENT (XXO)



#### FOR SINGLE UNITS:

1) DETERMINE YOUR WINDOW SIZE AND GLASS.

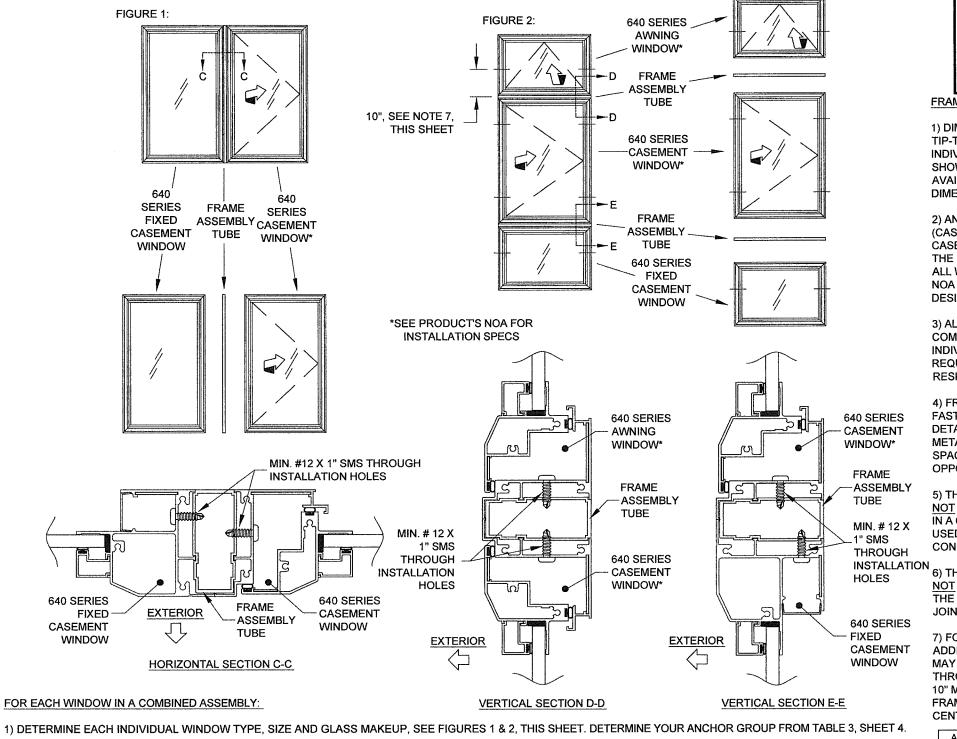
2) KNOWING YOUR ANCHOR TYPE AND SUBSTRATE, DETERMINE YOUR ANCHOR GROUP FROM TABLE 3, SHEET 4.

3) FROM SHEETS 6-9, FIND THE SHEET FOR YOUR GLASS TYPE. FIND THE PRODUCT'S DESIGN PRESSURE FROM THE TABLE LABELED "DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS, ALL ANCHOR GROUPS".

4) DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

5) USING THE TABLES LABELED "WINDOW ANCHORS REQUIRED" (TABLES 2A & 2B, SHEETS 4 & 5), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD. SILL AND JAMBS OF YOUR WINDOW.

6) INSTALL AS PER THE **INSTRUCTIONS ON SHEET 2.** 



2) FROM SHEETS 6-9, FIND THE SHEET FOR YOUR GLASS TYPE.

3) FIND THE DESIGN PRESSURE FROM THE TABLES LABELED "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A FRAME ASSEMBLY TUBE". THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN. ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

4) USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLES 2A & 2B, SHEETS 4 & 5), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.

5) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-3. NOTE THAT ADDITIONAL ANCHORS THROUGH THE WINDOW FRAME INTO THE SUBSTRATE MAY BE REQUIRED (SEE SHEET 2), AND THAT MIN. # 12 X 1" ANCHORS ARE TO BE USED THROUGH THE FRAME INTO THE FRAME ASSEMBLY TUBE (SEE DETAILS ON THIS SHEET).

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A CASE A SEARCH AND A SEARCH AN	Revision D: NO CHANGES.		E DETAILS	DW DETAILS - NI		
<ul> <li>a) ALL WINDOWS IN THE</li> <li>b) ALL WINDOWS IN THE</li> <li>c) COMBINATION UNIT MUST BE ABLE TO</li> <li>nDIVIDUALLY COMPLY WITH THE</li> <li>REQUIREMENTS OF THEIR</li> <li>RESPECTIVE NOA.</li> <li>a) FRAME ASSEMBLY TUBE TO BE</li> <li>c) FRAME ASSEMBLY TUBE TO BE</li> <li>c) FRAME ASSEMBLY TUBE TO BE</li> <li>c) FALL SCREWS. USE THE SAME</li> <li>c) FRAME ASSEMBLY AS THE</li> <li>c) FRAME ASSEMBLY TUBE MAY</li> <li>nOT EXCEED 62" IN LENGTH (AS USED</li> <li>N A 63" FLANGED WINDOW) OR BE</li> <li>USED IN TEE OR CROSS</li> </ul>	Revised By: J ROSOWSKI 03/13/20	J ROSOWSKI 08/08/12	Description: FRAME ASSEMBLY TUBE	Tite: FIXED CASEMENT WINDOW DETAILS - NI	Scale: Sh	04-040
CONFIGURATIONS. 5) THE FRAME ASSEMBLY TUBE IS <u>NOT</u> 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				1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296
CENTERLINE. SEE TABLE BELOW:       Additional Anchors Required on each Side of the Frame Assembly Tube (FAT)       H     Window     Anchor Type       Width     A     B, C & D       17" - 25.9"     1     0       26"+     1     1       H     Window     Anchor Type       Window     Anchor Type       17" - 25.9"     1     0       26"+     1     1       Height     A     B, C & D       17" - 25.9"     1     0       26"+     1     1	A PROMINE	A LAN	VILLEN VO. 587 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	705 -	LIVER * C	WWWWWWWWW

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§ 67	-1/2"	Short Side	2	2	2	2	3	2	6	5	11	7	_		_		7	6	5	12	8	7	5	13	8	7	5	13	8	7	5	13	9	7	5						
-		Long Side	10	6	5	5	-3 -11	$\frac{2}{7}$	2	2	3	2					2	2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3			x	×		х
	58"	Short Side	2	2	2	2	3	2	2	2	3	2	6				2	6	5	12	8	7	5	13	8	7	5	13	8	7	5	14	9	7	5			^	.   ^	`   ·	^
		Long Side	10	6	6	5	11	7	6	5	12	7	6					2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3		L				
	70"	Short Side	2	2	2	2	3	2	2	2	3	2	_				8	6 2	5	13 4	8 3	7	5	13	8	7	5	13	9	7	5	14	9	8	5					1	
		Long Side	10	7	6	5	11	7	6	5	12	8		5			2 8	7			8			5	3	3	3	5	3	3	3	5	4	3	3						
	72"	Short Side	2	2	2	2	3	2	2	2	3	2	2			_	2	2	5 2	13 4	0 3	7	5	14 5	9 3	7	5	14	9	7	5	15	9	8	5			x	0	2	
		Long Side	11	7	6	5	12	8	6	5	12	8	7	5			8	7	5	14	9	7	5	14	3 9	3 8	3	5	3 9	3	3	5	4	3	3			^	Ŭ		
	74"	Short Side	2	2	2	2	3	2	2	2	3	2	$\frac{1}{2}$					2	2	4	3	3	3	5	3	0 3	5	14 5	3	8	5	15 5	10	8	5		L				
	1011	Long Side	11	7	6	5	12	8	7	5	13	8	$+\frac{2}{7}$	5	-			7	5	14	9	8	5	15	9			5 15					4	3	3					ſ	
1	76"  -	Short Side	2	2	2	2	3	2	2	2	3	2	2					2	2	4	3	3	3	5	3	8	5	5	9 3	8	5	16 5	10	8	5		Γ			T	
		Long Side	12	8	7	5	14	9	7	5	14	9	8			_		8	5	16	10	8	6	17	11	9	6	17	11	9	6	18	11					~			
1	34"  -	Short Side	2	2	2	2	3	2	2	2	3	2	2		_			2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	10 3	3			х	0		х
	14"	Long Side		11	9	7	19	12	10	7	20	13	_		_				7	23	14	12		24	15	13	8	24	15	13	8	26	16	14							
1	14	Short Side	2	2	2	2	3	2	2	2	3	2	2					2	2	4	3	3	3	5	3	3	3	5	3	3	3	5	4	3	3						
	34"	Long Side	21	13	11	8	23	14	12	8	24		-					13	9	27	17	14	9	29	18	15	10	29	18	15	10		L. <del>"</del>	5	L		Γ				
Ľ		Short Side	2	2	2	2	3	2	2	2	3	2	2					2	2	4	3	3	3	5	3	3	3	5	3	3	3						L	-NOT	NED		
1			22	14	12	9	25	16	13	9	26	17	14	9	28	3 1		15	9	29	19	16	10				لستسا		-	<u> </u>							[	NIO	14	BLY	
		Short Side	2	2	2	2	3	2	2	2	3	2	2	2	4			2	2	4	3	3	3															~ V	RAME FRAME	it	

TA	BLE	3:

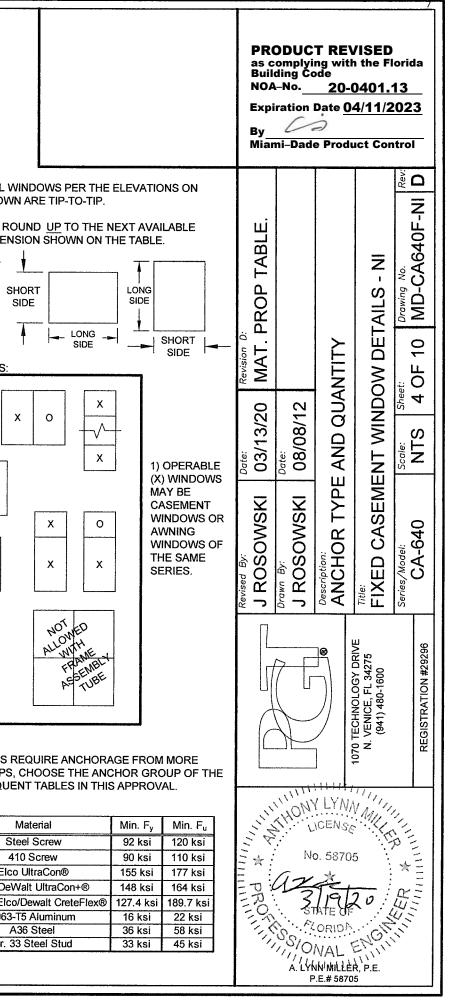
C	A		Min.	Min.	Min.	Anchor
Group	Anchor	Substrate	Edge	0.C.	Embedment	Plate
			Distance	Distance	Linbedment	Required?
	#12 steel SMS (G5) or	S. Pine	5/8"	1"	1-3/8"	No
	#14 steel SMS (G5) or	6063-T5 Alum.	3/8"	5/8"	.063"	No
	#14 410 SS SMS	A36 Steel	3/8"	5/8"	.050"	No
A	#14 410 00 000	A653 Stud, Gr. 33	3/8"	5/8"	.045", 20 Ga.	No
		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" steel Ultracon+	3k Concrete	1"	4"	1-3/8"	Yes
С		Hollow Block	1"	3"	1-1/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	5"	1-3/4"	No
	17 410 00 Oleterlex	Hollow Block	2-1/2"	5"	1-1/4"	No

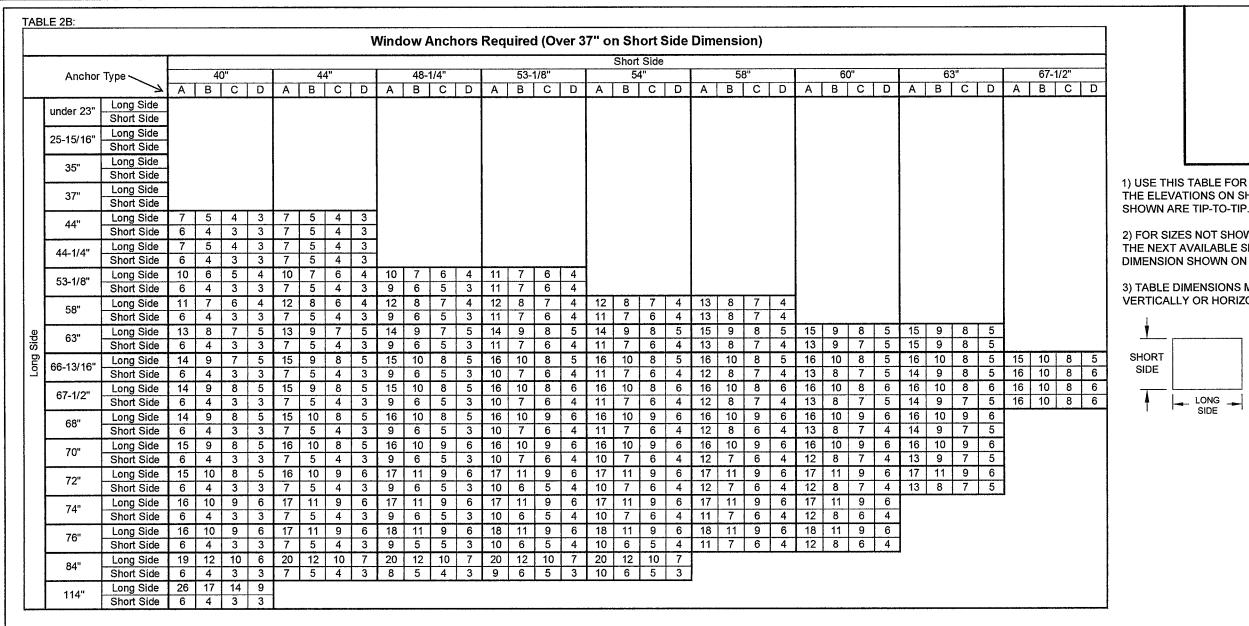
-			Min.	Min.	Min.	Anchor
Group	Anchor	Substrate	Edge	0.C.	Embedment	Plate
			Distance	Distance	Chibedillent	Required?
	#12 steel SMS (G5) or	S. Pine	5/8"	1"	1-3/8"	Yes
	#12 410 SS SMS or	6063-T5 Alum.	3/8"	5/8"	.0713"	Yes
	#14 steel SMS (G5) or	A36 Steel	3/8"	5/8"	.050"	Yes
	#14 410 SS SMS	A653 Stud, 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
		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
		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
		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

TABLE 3: (cont.)

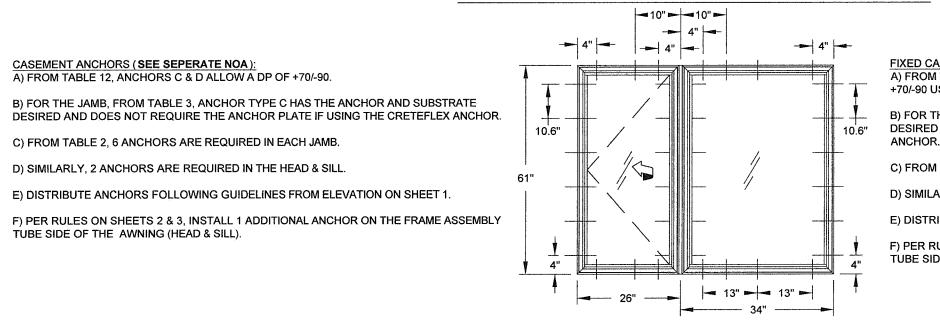
1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE FROM MORE THAN ONE OF THE ANCHOR GROUPS, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL SUBSEQUENT TABLES IN THIS APPROVAL.

2) ANCHOR MUST	
EXTEND A MIN. OF 3	Mat
THREADS BEYOND	Steel
ANY METAL SUBSTRATE.	410 \$
3) ANCHORS MAY BE	Elco Ul
HEXHEAD, PANHEAD	1/4" DeWalt
OR FLATHEAD.	410 SS Elco/De
	6063-T5 /
	A36
	Gr. 33 S





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



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.

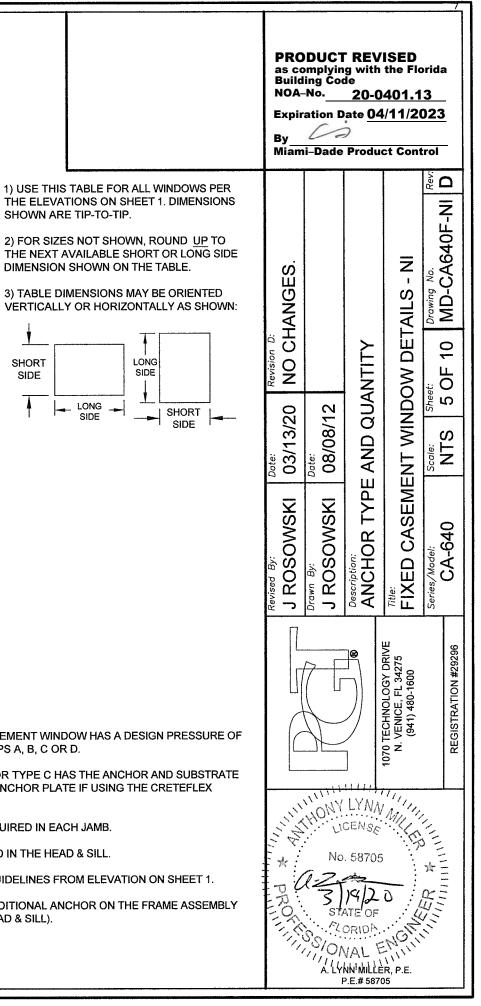
B) FOR THE JAMB, FROM TABLE 3, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETEFLEX ANCHOR.

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.

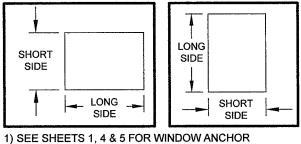
F) PER RULES ON SHEET 2, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE FIXED CASEMENT (HEAD & SILL).



1) 1/8" Annealed

2) 1/8" Tempered

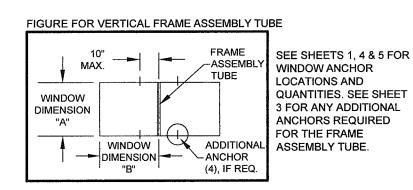
TA	BLE 4:							
	[]		Design P	ressure (psf) fo	or Single Wind	ows, All Anch	or Groups	
					Short Side			
		under 23"	25-15/16"	27-3/4"	33-1/2"	37"	44"	48-1/4"
	under 23"	+/- 79.6						
	25-15/16"	+/- 71.5	+/- 70.5					
	37"	+/- 57.7	+/- 54.3	+/- 52.7	+/- 49.9	+/- 49.4		
0	44"	+/- 53.9	+/- 50	+/- 48.1	+/- 44.1	+/- 42.7	+/- 41.6	
Side	48-1/4"	+/- 52.2	+/- 48.2	+/- 46.3	+/- 41.8	+/- 40.1	+/- 38.2	+/- 35.2
Long	53-1/8"	+/- 49.9	+/- 43.8	+/- 42.9	+/~ 39.9	+/- 38		
13	58*	+/- 46.9	+/- 39.4	+/- 38.1	+/- 37.9	+/- 36.3		
	63"	+/- 44.5	+/- 36.2	+/- 33.8	+/- 33.6	+/- 33.2		
	76"	+/- 40.7	+/- 30.8	+/- 27.4				
	84"	+/- 39.4	+/- 29.3	+/- 25.5				



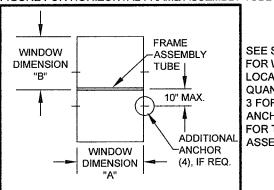
 SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.
 TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 5:

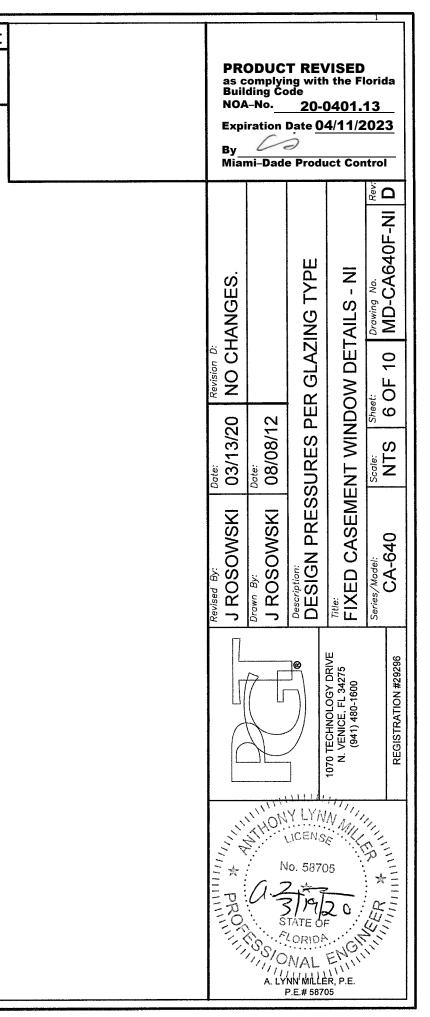
l f			De	sign Press	ure (psf) for	Windows J	Attached to	a Frame A	ssembly T	ube	
					Ń	Window Dir	nension "A	7			
וה		under 23"	25-15/16"	27-3/4"	33-1/2"	37"	44"	48-1/4"	53-1/8"	58"	63"
		Anchor	Anchor	Anchor	Anchor	Anchor	Anchor	Anchor	Anchor	Anchor	Anchor
		Group	Group	Group	Group	Group	Group	Group	Group	Group	Group
ł		All	All	All	All	All	All	All	All	All	All
	under 23"	+70/-79.6	+70/-71.5	+/-67.9	+/-60.6	+/-57.7	+/-53.9	+/-52.2	+/-49.9	+/-46.9	+/-44.5
ā	25-15/16"	+70/-71.5	+70/-70.5	+/-66.2	+/-57.6	+/-54.3	+/-50	+/-48.2	+/-43.8	+/-39.4	+/-36.2
- _	37"	+/-57.7	+/-54.3	+/-52.7	+/-49.9	+/-49.4	+/-42.7	+/-40.1	+/-38	+/-36.3	+/-33.2
Dimension	44"	+/-53.9	+/-50	+/-48.1	+/-44.1	+/-42.7	+/-41.6	+/-38.2			
Ē	48-1/4"	+/-52.2	+/-48.2	+/-46.3	+/-41.8	+/-40.1	+/-38.2	+/-35.2			
Ē	53-1/8"	+/-49.9	+/-43.8	+/-42.9	+/-39.9	+/-38					
	58"	+/-46.9	+/-39.4	+/-38.1	+/-37.9	+/-36.3					
Window	63"	+/-44.5	+/-36.2	+/-33.8	+/-33.6	+/-33.2					
Š	76"	+/-40.7	+/-30.8	+/-27.4							
	84"	+/-39.4	+/-29.3	+/-25.5							



#### FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



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

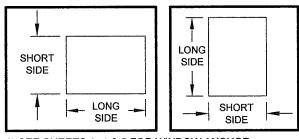


# 3) 3/16" Annealed

5) 1/4" Annealed

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

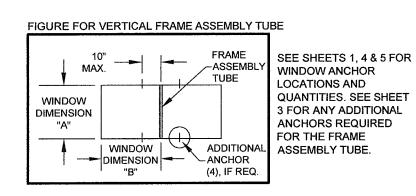
				De	esign Pressure	e (psf) for Singl	e Windows, Al	I Anchor Grou	ps		
						Short	t Side				
		under 23"	25-15/16"	27-3/4"	33-1/2"	37"	44"	48-1/4"	53-1/8"	58"	63"
	under 23"	+90/-112.1									
	25-15/16"	+90/-100.7	+90/-99.4								
	37"	+/- 81.3	+/- 76.5	+/- 74.3	+/- 70.3	+/- 69.7	+/- 60.1	+/- 56.5	+/- 53.5	+/- 51.1	+/- 49.3
a	44"	+/- 75.9	+/- 70.4	+/- 67.8	+/- 62.1	+/- 60.1	+/- 58.6	+/- 53.8	+/- 44.5	+/- 41.9	+/- 40
Side	48-1/4"	+/- 73.6	+/- 67.9	+/- 65.2	+/- 58.9	+/- 56.5	+/- 53.8	+/- 53.4	+/- 43.5	+/- 40.6	
Long	53-1/8"	+/- 71.6	+/- 65.8	+/- 62.9	+/- 56.2	+/- 53.5	+/- 44.5	+/- 43.5	+/- 43.2		
۲	58"	+/- 69.9	+/- 64	+/- 61	+/- 54,1	+/- 51.1	+/- 41.9	+/- 40.6			
	63"	+/- 68.6	+/- 62.6	+/- 59.6	+/- 52.4	+/- 49.3	+/- 40				
	76"	+/- 66	+/- 55.4	+/- 49.3	+/- 43.1	+/- 39.4					
	84"	+/- 64.9	+/- 52.7	+/- 45.8	+/- 37.8						



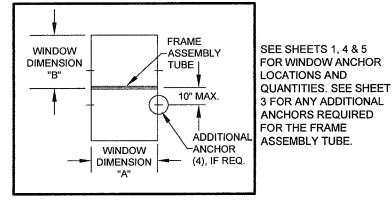
1) SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. 2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

TABLE 7:

											De	esign Press	ure (psf) fo	r Windows	Attached to	a Frame A	ssembly T	ube						
														Window Dir	mension "A"			·						-
		under 23"	25-15/16"	27-3/4"	33-1/2"	[	37"			44"			48-	-1/4"			53-	1/8"			5	8"		Ľ
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	A	nchor Grou	p	A	nchor Grou	dr		Ancho	r Group			Ancho	r Group			Anchor	Group		
		All	All	All	All	A	В	C & D	A	В	C&D	A	В	C	D	A	В	C	D	A	В	С	D	Ē
	under 23"	+70/-90	+70/-90	+70/-90	+70/-85.4	+70/-81.3	+70/-79.2	+70/-81.3	+70/-75.9	+/-66.6	+70/-75.9	+70/-73.6	+/-60.7	+70/-72.7	+70/-73.6	+/-69	+/-55.3	+/-66.1	+70/-71.6		+/-50.5	+/-60.5	+/-69.9	Ē
صً	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-81.1	+70/-76.5	+70/-76.5	+70/-76.5	+70/-70.4	+70/-70.4	+70/-70.4	+/-67.1	+/-67.9	+/-67.9	+/-67.9	+/-61.1	+/-65.8	+/-65.8	+/-65.8	+/-55.9	+/-64	+/-64	+/-64	L
Ę	37"	+70/-81.3	+70/-76.5	+70/-74.3	+70/-70.3	+/-69.7	+/-69.7	+/-69.7	+/-60.1	+/-60.1	+/-60.1	+/-56.5	+/-56.5	+/-56.5	+/-56.5	+/-53.5	+/-53.5	+/-53.5	+/-53.5	+/-49	+/-51.1	+/-51.1	+/-51.1	L
Sio	44"	+70/-75.9	+70/-70.4	+/-67.8	+/-62.1	+/-60.1	+/-60.1	+/-60.1	+/-54.3	+/-58.6	+/-58.6	+/-49.5	+/-53.8	+/-53.8	+/-53.8	+/-45.1	+/-50	+/-50	+/-50	+/-41.2	+/-47.2	+/-47.2	+/-47.2	1
l e	48-1/4"	+70/-73.6	+/-67.9	+/-65.2	+/-58.9	+/-56.5	+/-56.5	+/-56.5	+/-49.5	+/-53.8	+/-53.8	+/-45.1	+/-53.4	+/-53.4	+/-53.4	+/-41.1	+/-49	+/-49	+/-49	+/-37.5	+/-45.7	+/-45.7	+/-45.7	Ĺ
듐	53-1/8"	+70/-71.6	+/-65.8	+/-62.9	+/-56.2	+/-53.5	+/-53.5	+/-53.5	+/-50	+/-50	+/-50	+/-49	+/-49	+/-49	+/-49	+/-44.9	+/-48.6	+/-48.6	+/-48.6					L
3	58"	+/-69.9	+/-64	+/-61	+/-54.1	+/-51.1	+/-51.1	+/-51.1	+/-47.2	+/-47.2	+/-47.2	+/-45	+/-45.7	+/-45.7	+/-45.7									1
18	63"	+/-68.6	+/-62.6	+/-59.6	+/-52.4	+/-49.3	+/-49.3	+/-49.3	+/-45	+/-45	+/-45													L
Ī	76"	+/-66	+/-55.4	+/-49.3	+/-43.1	+/-39.4	+/-39.4	+/-39.4																L
	84"	+/-64.9	+/-52.7	+/-45.8	+/-37.8																			L



#### FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS

	as co Build NOA	omplyin ling Co -No. ration I	ng with de <u>20-(</u> Date <u>0</u> 4	/ISED 1 the Flo 0401.1 4/11/2 uct Con	<u>3</u> 023 trol	a - 
	0 NO CHANGES.	2	Aption: SIGN PRESSURES PER GLAZING TYPE	ED CASEMENT WINDOW DETAILS - NI	Sheet: Drawing No. Rev:	
63" Anchor Group	KI 03/13/20	KI 08/08/12	RESSURES F	EMENT WIN	Scale:	0 N
A         B         C         D           +/-58.1         +/-46.5         +/-55.7         +/-68.6           +/-51.5         +/-62.6         +/-62.6         +/-62.6           +/-45.1         +/-49.3         +/-49.3         +/-49.3           +/-37.9         +/-45         +/-45         +/-45	Revised By: J ROSOWSKI	J ROSOWSKI	DESIGN PF	FIXED CAS	Series/Model:	CA-040
				1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296
	NATION & PROMINE	A:	NO. 58 NO. 58 STATE VORIT	NN MK 186 705 705 705 705 705 705		WWWWWWWWWWW

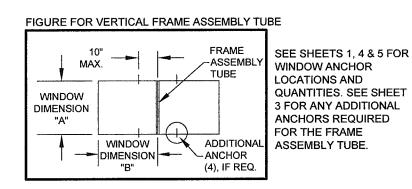
9) 7/8" IG: (3/16" An - 1/2" Air - 3/16" An)

TABLE 8:

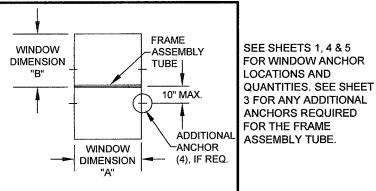
TABLE 9:

[				De	esign Pressure							
	under 23" + 25-15/16" + 35" + 63" + 66-13/16" +					Short	Side					
		under 23"	25-15/16"	36"	48"	53-1/8"	58"	60"	63"	65"	66-13/16"	LONG
	under 23"	+90/-150										SHORT
Ī	25-15/16"	+90/-150	+90/-150									SIDE
1	35"	+90/-141.2	+90/-133.5									
	63"	+90/-116	+90/-105.8	+/- 84.8	+/- 73.4	+/- 70.9	+/- 69.6	+/- 69.4	+/- 69			LONG SHORT
Side	66-13/16"	+90/-114.5	+90/-104.3	+/- 82.9	+/- 70.9	+/- 68.1	+/- 66.4	+/- 65.9	+/- 65.2	+/- 63.5	+/- 62	SIDE
B	68"	+90/-114.1	+90/-103.8	+/- 82.4	+/- 70.2	+/- 67.3	+/- 65.5	+/- 65	+/- 64.2	+/- 62.4		
-	70"	+90/-113.4	+90/-103.2	+/- 79.9	+/- 69.1	+/- 66.1	+/- 64.2	+/- 63.6	+/- 62,4			1) SEE SHEETS 1, 4 & 5 FOR WINDOW ANCHOR
	74"	+90/-112.3	+90/-101.9	+/- 73.9	+/- 67.2	+/- 64	+/- 61.8	+/- 61.1				LOCATIONS AND QUANTITIES.
	76"	+90/-111.7	+90/-101.3	+/- 72.1	+/- 66.4	+/- 63,1	+/- 60.8					2) TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY
	84"	+90/-109.9	+90/-99.4	+/- 65.5	+/- 58.9	+/- 57.7						OR HORIZONTALLY AS SHOWN.

											Design	Pressure (p	sf) for Wind	lows Attach	ned to a Fra	ame Assem	nbly Tube						
													Windo	w Dimensio	on "A"				<u>.</u>				······
		under 23"	25-15/16"	[	36"			4	8"			53-	1/8"			5	8"			6	0"		
		Anchor Group	Anchor Group	A	nchor Grou	p		Ancho	r Group			Anchor	Group			Ancho	Group			Ancho	Group		
		All	All	A	В	C&D	A	В	С	D	Α	В	С	D	А	В	C	D	A	В	С	D	A
	under 23"	+70/-90	+70/-90	+70/-90	+70/-81.4	+70/-90	+70/-76.2	+/-61.1	+70/-73.1	+70/-90	+/-68.8	+/-55.2	+/-66	+70/-90	+/-63.1	+/-50.5	+/-60.5	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90	+/-58.1
ā	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+/-67.5	+70/-90	+70/-90	+70/-90	+/-61	+70/-90	+70/-90	+70/-90	+/-55.9	+70/-89.6		+70/-90	+/-54	+70/-86,6		+70/-90	+/-51.5
Ę	35"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+/-62.6	+70/-90	+70/-90	+70/-90	+/-56.5	+70/-90	+70/-90	+70/-90	+/-51.8	+70/-83		+70/-89.2				+70/-87.9	
sio	63"	+70/-90	+70/-90	+70/-83.4	+70/-84.8	+70/-84.8	+/-62.6	+70/-73.4	+70/-73.4	+70/-73.4	+/-56.5	+70/-70.5	+70/-70.9	+70/-70.9	+/-51.8	+/-64.6	+/-66.2	+/-69.6	+/-50.1	+/-62.4	+/-64	+/-69.4	+/-47.7
je j	66-13/16"	+70/-90	+70/-90	+70/-78.7	+70/-82.9	+70/-82.9	+/-59	+70/-70.9	+70/-70.9	+70/-70.9	+/-53.3	+/-66.4	+/-68.1	+/-68.1	+/-48.8	+/-60.9	+/-66.4	+/-66.4	+/-47.2	+/-58.8	+/-65.9	+/-65.9	+/-45
E.	68"	+70/-90	+70/-90	+70/-82.4	+70/-82.4	+70/-82.4	+/-64.4	+70/-70.2	+70/-70.2	+70/-70.2	+/-58.2	+/-65.3	+/-67.3	+/-67.3	+/-53.3	+/-59.8	+/-65.5	+/-65.5	+/-51.5	+/-57.8	+/-65	+/-65	+/-49.1
Ň	70"	+70/-90	+70/-90	+70/-79.9	+70/-79.9	+70/-79.9	+/-62.6	+/-69.1	+/-69.1	+/-69.1	+/-56.5	+/-63.4	+/-66.1	+/-66.1	+/-51.8	+/-58.1	+/-64.2	+/-64.2	+/-50.1	+/-56.2	+/-63.6	+/-63.6	+/-47.7
월	74"	+70/-90	+70/-90	+70/-73.9	+70/-73.9	+70/-73.9	+/-59.2	+/-66.4	+/-67.2	+/-67.2	+/-53.5	+/-60	+/-64	+/-64	+/-49	+/-55	+/-61.8	+/-61.8	+/-47.4	+/-53.1	+/-61.1	+/-61.1	
N N	76"	+70/-90	+70/-90	+70/-72.1	+70/-72.1	+70/-72.1	+/-57.6	+/-64.7	+/-66.4	+/-66.4	+/-52.1	+/-58.4	+/-63.1	+/-63.1	+/-47.7	+/-53.5	+/-60.8	+/-60.8					
	84"	+70/-90	+70/-90	+/-65.5	+/-65.5	+/-65.5	+/-57.4	+/-58.9	+/-58.9	+/-58.9	+/-51.8	+/-57.7	+/-57.7	+/-57.7									







SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS

	as co Build NOA	-No. ration I	ng witl de <u>20-(</u> Date <u>0</u>	/ISED 1 the Fl 0401.7 4/11/2 uct Con	13 02:	-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Revised By: Date: Revision D: J ROSOWSKI 03/13/20 NO CHANGES.	Drawn By: Dote: J ROSOWSKI 08/08/12	DESIGN PRESSURES PER GLAZING TYPE	Title: FIXED CASEMENT WINDOW DETAILS - NI	Scale: S	
				1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296
	NA * PROMIN	A LY	NO. 58 STATE O VORIE NAL NA MILL P.E.# 587	ER, P.E.	LAND AND AND AND AND AND AND AND AND AND	

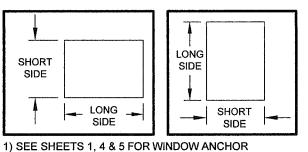
4) 3/16" T

6) 1/4" T

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

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	[]			De	esign Pressure	e (psf) for Singl	e Windows, Al	I Anchor Grou	ps		
						Shor	t Side				
		under 23"	25-15/16"	29"	31-1/2"	34"	40"	54"	60"	63"	67-1/2"
	under 23	+90/-150									
	25-15/16	+90/-150	+90/-150								
	63"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	
ø	67-1/2"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-147	+90/-142.9	+90/-141.7	+90/-134.5
Side	72"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-141.1	+90/-136.1	+90/-134.4	
gno	76"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-136.8	+90/-131.2		
Ľ	84"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-150	+90/-133.4	+90/-127.2			
	114"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-131.9	+90/-96.6				
	134"	+90/-150	+90/-150	+90/-150	+90/-150	+90/-124.1					
	145"	+90/-150	+90/-150	+90/-150	+90/-149						



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

TABLE 11:

	[]									Design	Pressure (p	sf) for Win	dows Attacl	ned to a Fra	ame Assen	ibly Tube						
		Window Dimension "A"																				
		under 23"	25-15/16"	29"	31-1/2"		34"			40"				54"				60"				
		Anchor	Anchor	Anchor	Anchor		Anchor Grou	n .		Ancho	r Group			Ancho	r Group			Ancho	r Group			Ancho
	L	Group	Group	Group	Group	· · · ·		ιp		лисно	Oloup			Ancho	Cioup			Ancho	Oloup			Anchy
		All	All	All	All	A	B	C&D	A	B	C	D	A	В	С	D	A	В	C	D	A	В
Γ	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-86.2	+70/-90	+70/-90	+70/-73.3	+70/-87.7	+70/-90	+/-67.7	+/-54.3	+/-65	+70/-90	+/-61	+/-48.9	+/-58.5	+70/-90	+/-58.1	+/-46.5
, ju	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-75.1	+70/-90	+70/-90	+70/-90	+/-67.5	+70/-86.6	+70/-90	+70/-90	+/-64.3	+70/-82.5
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90		+70/-90
- iz	67-1/2"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89	+70/-90
- La	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90		+70/-88.1	+70/-90
ے ا	76"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90		
A	84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90				ļ		
Ž	114"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90										
₹	134"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90														
	145"	+70/-90	+70/-90	+70/-90	+70/-90															ļ	<u> </u>	

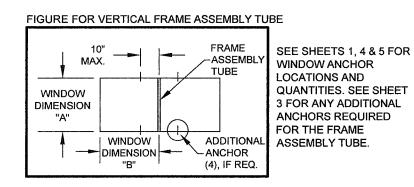
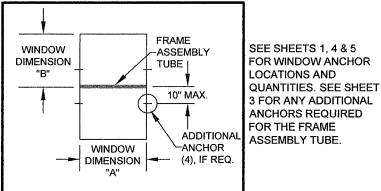


FIGURE FOR HORIZONTAL FRAME ASSEMBLY TUBE



SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS

	PRODUCT REVISED as complying with the Florida Building Code NOA-No. <u>20-0401.13</u> Expiration Date <u>04/11/2023</u> By <u></u> Miami-Dade Product Control										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Revised By:     Date:     Revision D:       J ROSOWSKI     03/13/20     NO CHANGES.	Drawn By: J ROSOWSKI 08/08/12	Description: DESIGN PRESSURES PER GLAZING TYPE	FIXED CASEMENT WINDOW DETAILS - NI	Scale: Sheet: Drawing No.	CA-640 NIS 9 OF 10 MID-CA640F-NI D					
			]	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296					
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