



MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

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

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building

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-740" Outswing Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-CA740-LM**, Rev F titled "Casement Window Details - LM & SM", sheets 1 through 11 of 11, dated 08/08/12 and last revised on 07/31/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

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

This NOA **revises NOA No. 23-0303.04** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



Ishaq I. Chanda

NOA No. 23-0816.12
Expiration Date: April 11, 2028
Approval Date: September 07, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 12-1218.09)
2. Drawing No. **MD-CA740-LM**, titled "Casement Window Details – LM & SM", sheets 1 through 11 of 11, 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. 20-0402.02)

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. 20-0402.02)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 16-0629.21)

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.12
Expiration Date: April 11, 2028
Approval Date: September 07, 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) 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 CA740 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-7065**, dated 10/05/12, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 12-1218.09)

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. 20-0402.02)
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**" dated 05/23/19, expiring on 05/23/24.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.12
Expiration Date: April 11, 2028
Approval Date: September 07, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

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. 20-0402.02)
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. 20-0402.02)
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. 20-0402.02)
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. 16-0629.21)

G. OTHERS

1. Notice of Acceptance No. **17-0614.14**, issued to PGT Industries, Inc. for their Series "CA-740" Outswing Aluminum Casement Window – L.M.I." approved on 09/14/17 and expiring on 04/11/23.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.12
Expiration Date: April 11, 2028
Approval Date: September 07, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED under previous approval

A. DRAWINGS

1. Drawing No. **MD-CA740-LM**, titled “Casement Window Details – LM & SM”, sheets 1 through 11 of 11, 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. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 11/19/20, expiring on 07/08/24.
2. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/15/22, expiring on 07/04/28.

F. STATEMENTS

1. Statement letter of conformance, complying with **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. **20-0402.02**, issued to PGT Industries, Inc. for their Series “**CA-740**” Outswing Aluminum Casement Window – L.M.I.” approved on 08/13/20 and expiring on 04/11/23.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.12
Expiration Date: April 11, 2028
Approval Date: September 07, 2023

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **MD-CA740-LM**, REV F titled “Casement Window Details – LM & SM”, sheets 1 through 11 of 11, dated 08/08/12 and last revised on 07/31/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 11/19/20, expiring on 07/08/24.
2. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/15/22, expiring on 07/04/28.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 07/31/23, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

G. OTHERS

1. *This NOA revises NOA No. 23-0303.04, updates to FBC 2023, expiring 04/11/28.*

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.12
Expiration Date: April 11, 2028
Approval Date: September 07, 2023

GENERAL NOTES: SERIES 740 IMPACT-RESISTANT
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 NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.
- 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/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE 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-7065, 3579, 3580, 3724; DEWALT ULTRACON+ NOA; ELCO ULTRACON NOA; DEWALT/ELCO CRETEFLEX NOA; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL.
- 10) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL LEG FRAME. THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION

TABLE 1:

Glass Types		Sheet #
1	5/16" Lami (1/8 An - .090" PVB - 1/8 An)	5
2	7/16" Lami (3/16 An - .090" SG - 3/16 An)	6
3	7/16" Lami (3/16 HS - .090" SG - 3/16 HS)	7
4	7/8" Lami. IG (1/8" An - 7/16" Air - 1/8" An - .090" PVB - 1/8" An)	5
5	7/8" Lami. IG (1/8" T - 7/16" Air - 1/8" An - .090" PVB - 1/8" An)	8
6	7/8" Lami. IG (3/16" An - 1/4" Air - 3/16" An - .090" SG - 3/16" An)	9
7	7/8" Lami. IG (3/16" An - 1/4" Air - 3/16" HS - .090" SG - 3/16" HS)	7
8	7/8" Lami. IG (3/16" T - 1/4" Air - 3/16" An - .090" SG - 3/16" An)	9
9	7/8" Lami. IG (3/16" T - 1/4" Air - 3/16" HS - .090" SG - 3/16" HS)	7

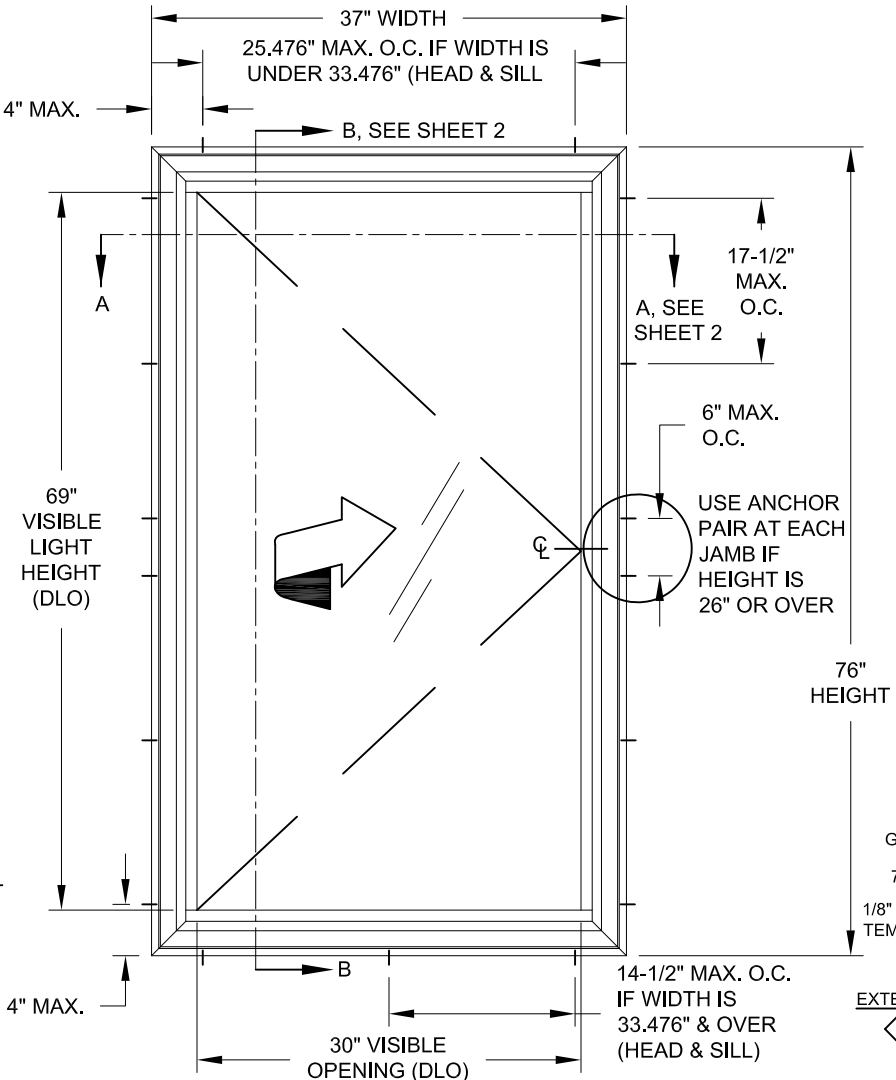
"PVB"= TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG"= SENTRYGLAS® BY KURARAY AMERICA, INC.

GENERAL NOTES.....	1
ELEVATION.....	1
GLAZING DETAILS.....	1
INSTALLATION.....	2
ASSEMBLY TUBE DETAILS.....	3
ANCHOR SPECIFICATIONS.....	4
ANCHOR QUANTITIES.....	4
DESIGN PRESSURES.....	5-9
ASSEMBLY DETAILS/BOM.....	10
EXTRUSIONS/SPACER.....	11

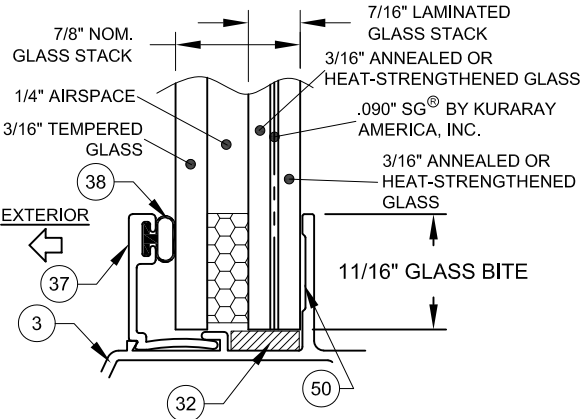
CODES / STANDARDS USED:

- 2023 FLORIDA BUILDING CODE (FBC), 8TH EDITION
- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2020
- AISI S100-16
- AISC 360-16

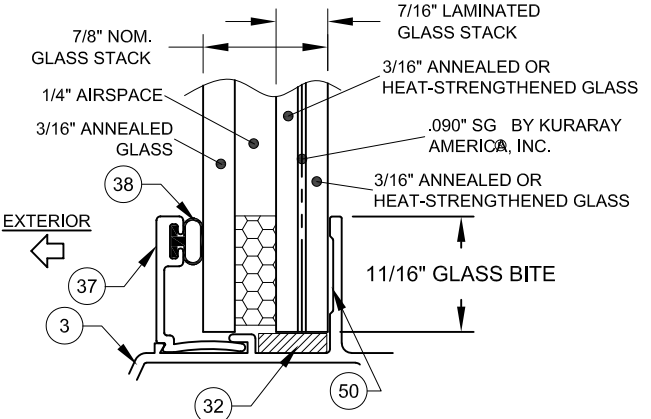
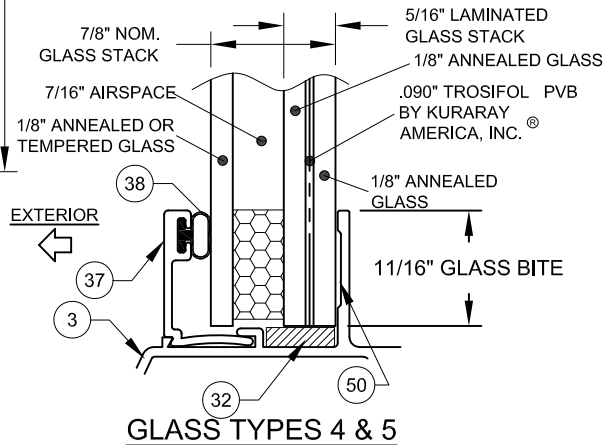
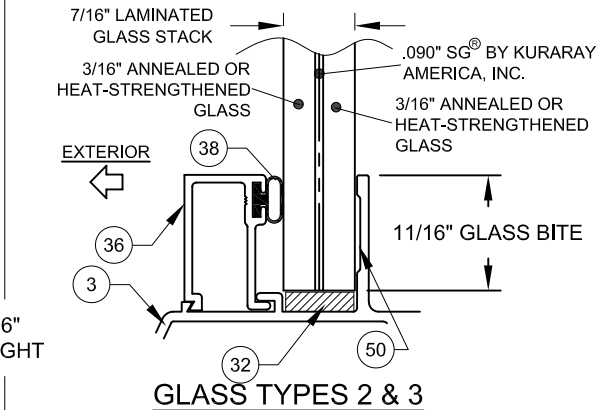
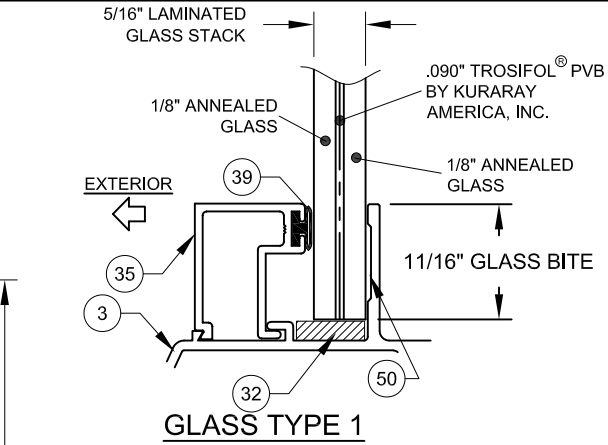
DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 5-9	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE



TYP. ELEVATION OF CASEMENT WINDOW



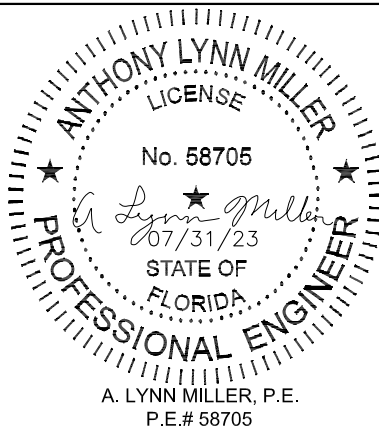
GLASS TYPES 8 & 9

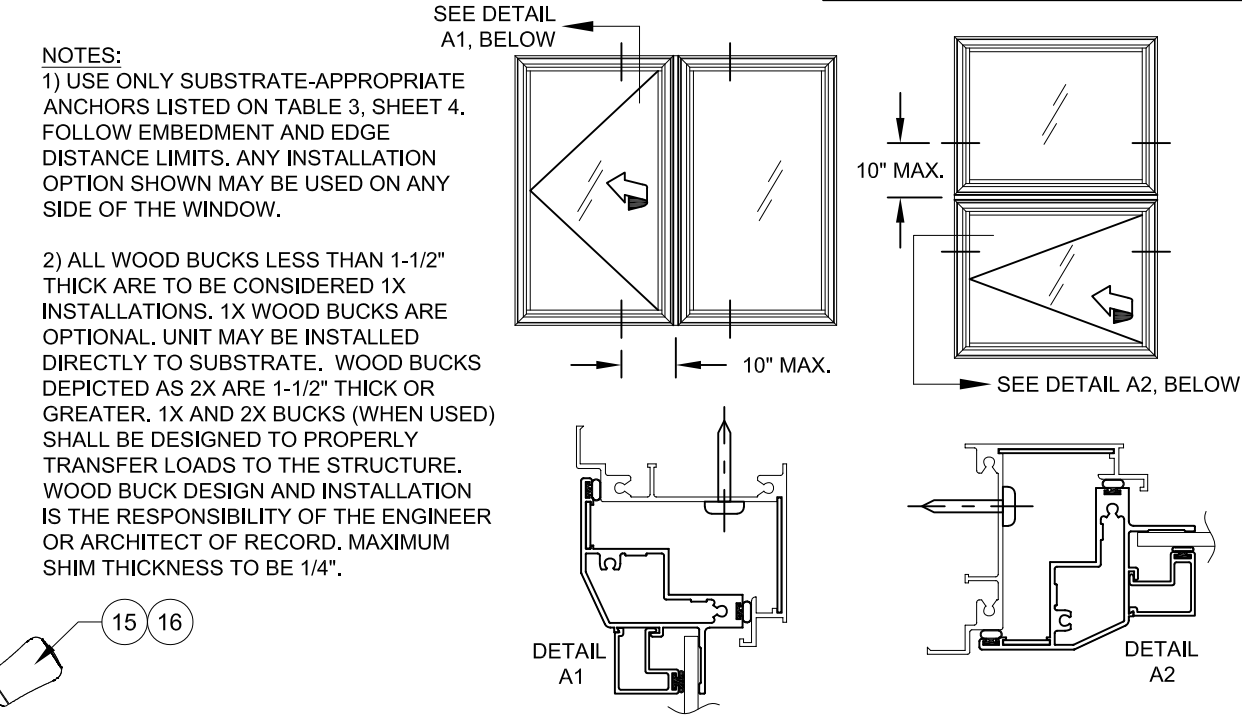
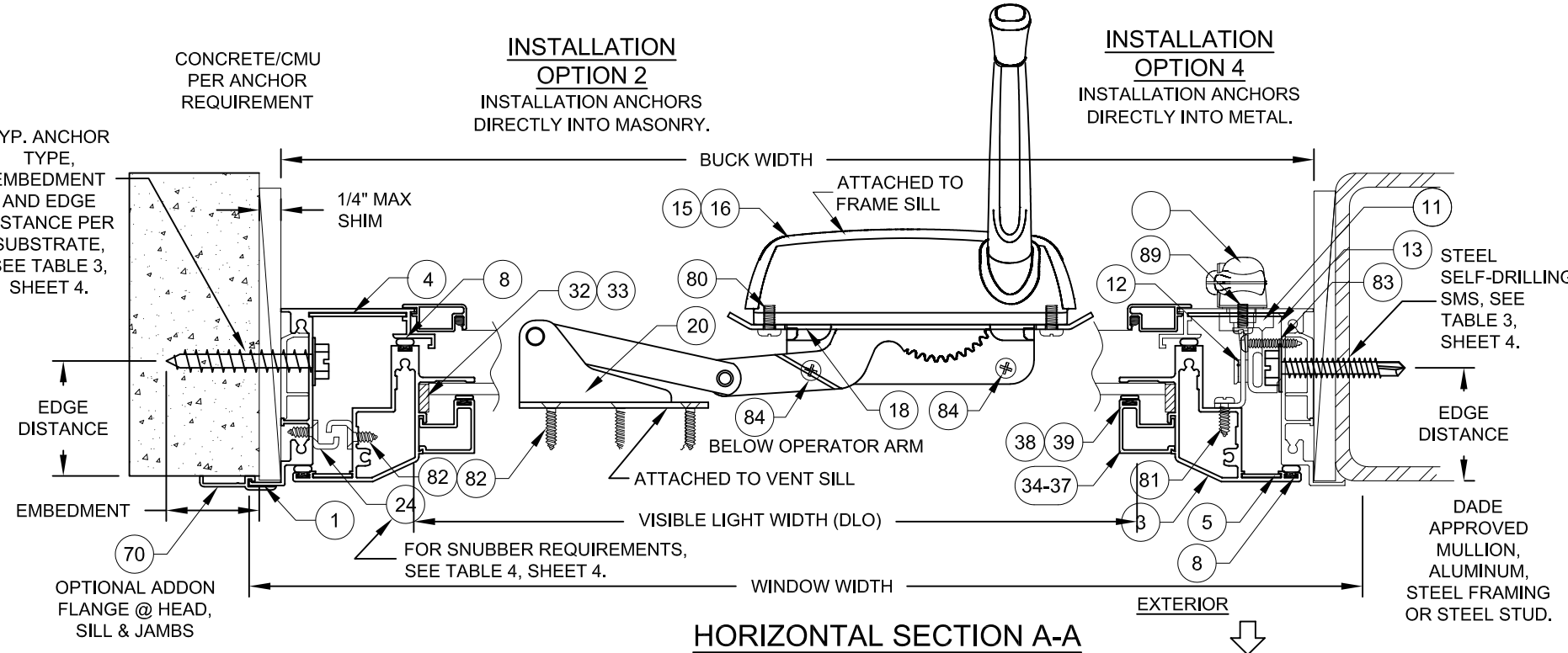
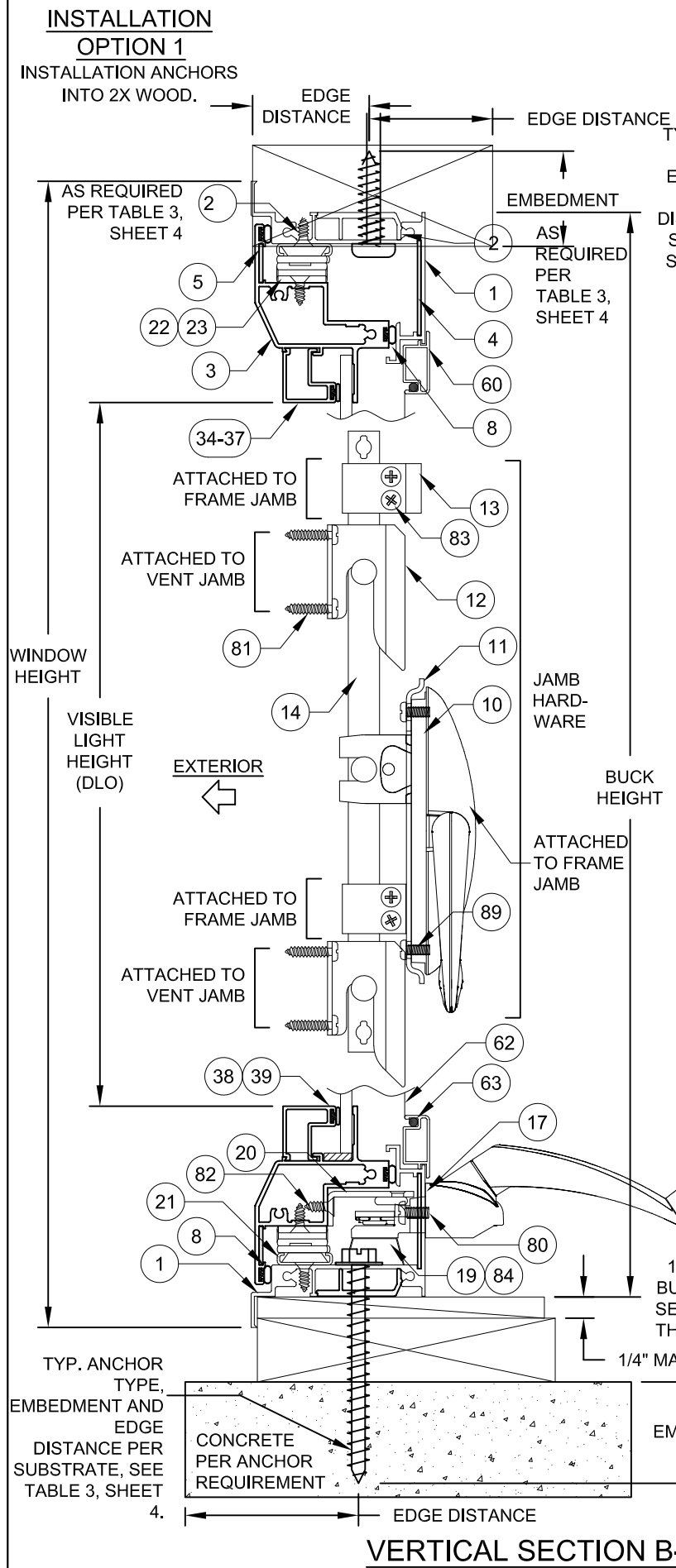


PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By Ishag I. Chank
Miami-Dade Product Control

Revision: F) UPDATED TO FBC 2023.

PGT Custom Windows and Doors				PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600				REGISTRATION #29296			
Title		CASEMENT WINDOW (LM)		Date		08/08/12	
Desc.		GENERAL NOTES, GLAZING & ELEVATION		Drawn By		A. MORLESIN	
Series		CA-740		Sheet		1 OF 11	
DWG		No.		MD-CA740-LM		Rev.	
F							





NOTES:
1) WHEN INSTALLING COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10\"/>

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

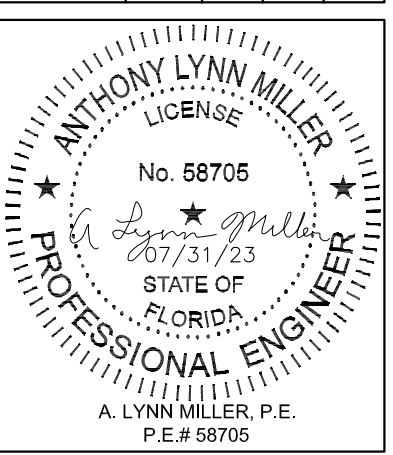
EGRESS FORMULAS:
WIDTH, WASH HINGE: WINDOW WIDTH - 13-1/2"
WIDTH, EGRESS HINGE: WINDOW WIDTH - 7-1/2"
HEIGHT: WINDOW HEIGHT - 6"

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

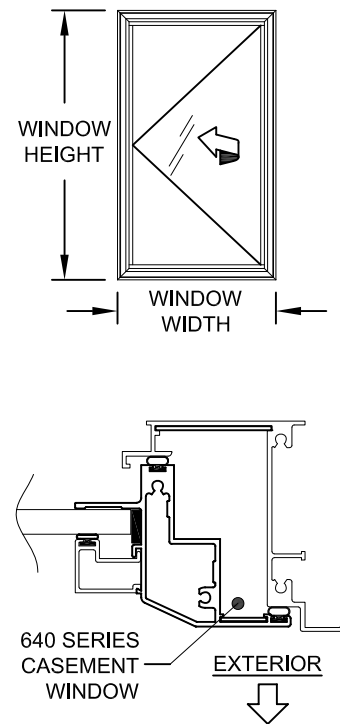
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By *Ishag I. Chank*
Miami-Dade Product Control

Revision: F) NO CHANGES IN THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	08/08/12	By	A. MORLESIN	DWG No.	MD-CA740-LM	Rev.	F
		CASEMENT WINDOW (LM)		CROSS SECTION & INST.		2 OF 11	CA-740	Sheet	
		Custom Windows and Doors		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600					



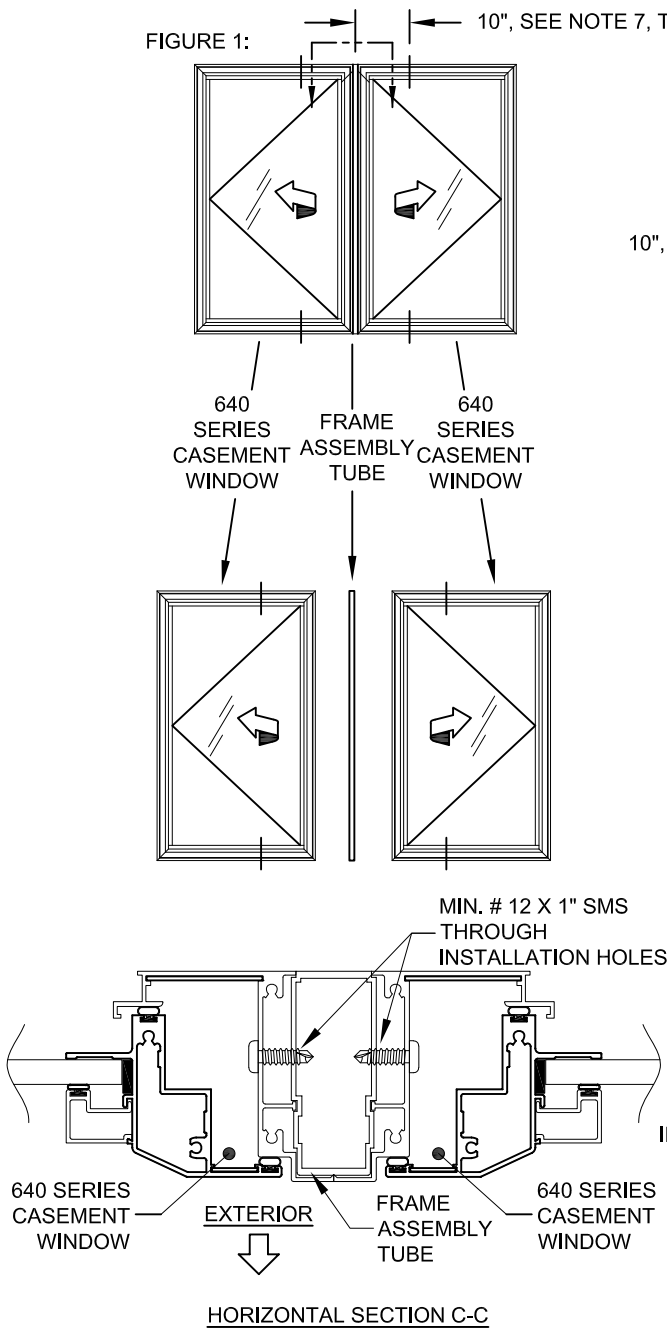
CASEMENT (X)



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.

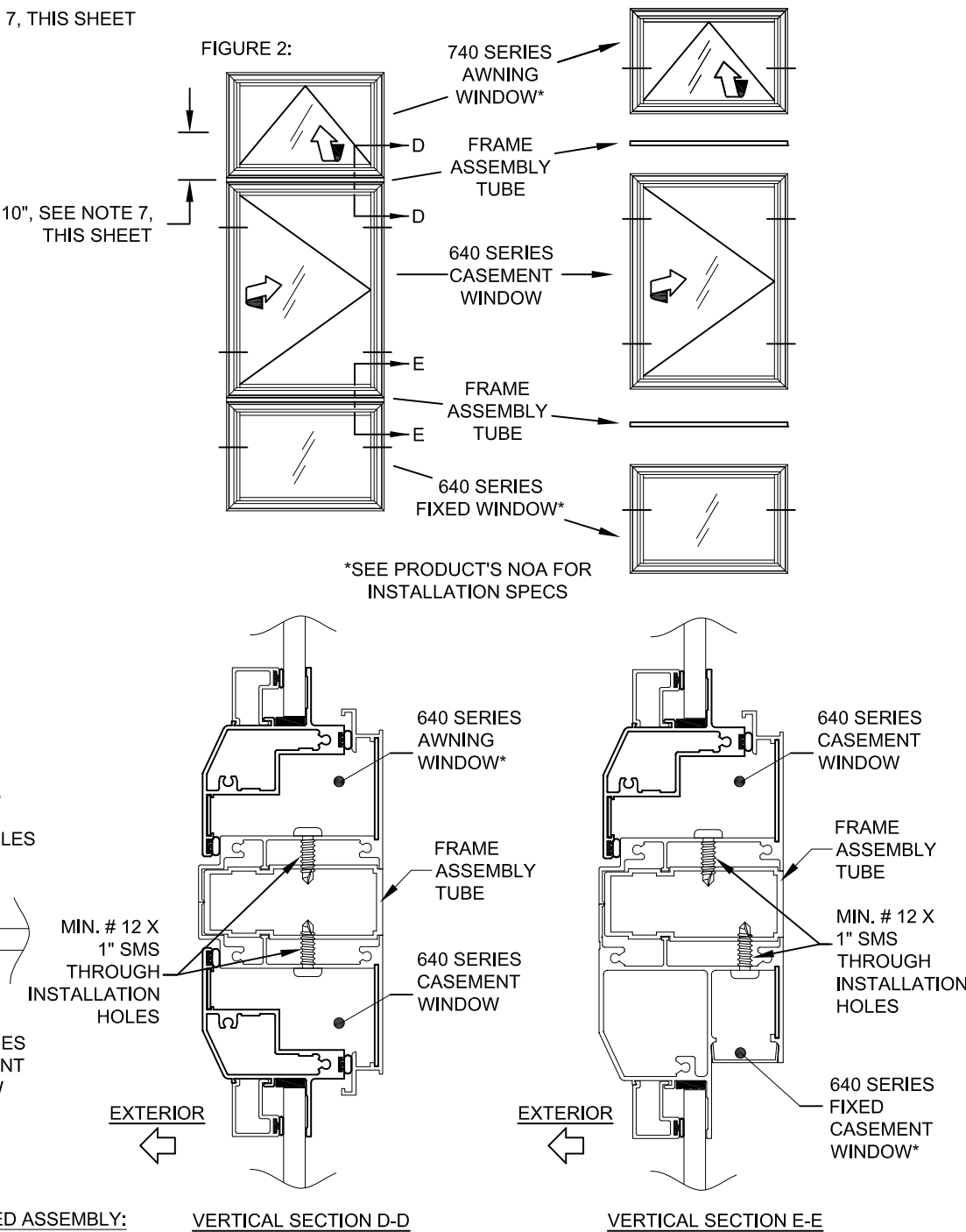
CASEMENT / CASEMENT (XX)



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).

AWNING / CASEMENT / FIXED CASEMENT (XXO)



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 OPPOSITE FRAME MEMBER.
- 5) THE FRAME ASSEMBLY TUBE MAY NOT EXCEED 62" IN LENGTH (AS USED IN A 63" FLANGED WINDOW) OR BE USED IN TEE OR CROSS CONFIGURATIONS.
- 6) THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.
- 7) FOR ALL COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE. SEE TABLE BELOW:

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By Ishag I. Chank
Miami-Dade Product Control

Revision:
F) NO CHANGES IN THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	08/08/12 Date	A. MORLESIN By	MD-CA740-LM DWG No.	F Rev.
PGI Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	CASEMENT WINDOW (LM)	FRAME ASSEMBLY TUBE DETAILS	CA-740 Sheet	3 OF 11	CA-740-LM Rev.

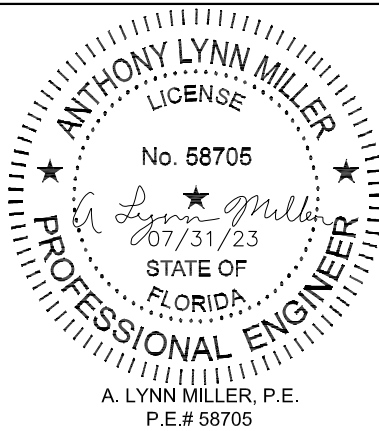


TABLE 2:

Window Anchors Required																														
			Window Width (in)																											
			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			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Window Height (in)	under 23"	Jamb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		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	3
	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	2
		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	3
	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	4
		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	3
	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	4
		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	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	4
		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	3
	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	4
		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	3
	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	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	3	3	3
	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	8	6
		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
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	6	
	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	3	
84"	Jamb	12	8	8	6	14	10	8	6	14	10	8	6	16	10	8	6	16	10	8	6									
	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	2	2									

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

TABLE 3:

Group	Anchor	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment	Anchor Plate Required?
A	#12 steel SMS (G5) or #14 steel SMS (G5) or #14 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	No
		6063-T5 Alum.	3/8"	5/8"	.063"	No
		A36 Steel	3/8"	5/8"	.050"	No
		A653 Stud, Gr. 33	3/8"	5/8"	.045", 20 Ga.	No
	1/4" steel Ultracon+	3k Concrete	1"	3"	1-3/4"	No
		Hollow Block	1"	3"	1-1/4"	No
S. Pine		1"	1"	1-3/8"	No	
B	1/4" steel Ultracon	2.85k Concrete	2-1/2"	4"	1-3/8"	No
		Hollow Block	1"	6"	1-1/4"	No
		Hollow Block	2-1/2"	5"	1-1/4"	No
C	1/4" steel Ultracon+	3k Concrete	1"	4"	1-3/8"	Yes
		Hollow Block	1"	3"	1-1/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	5"	1-3/4"	No
		Hollow Block	2-1/2"	5"	1-1/4"	No
D	#12 steel SMS (G5) or #12 410 SS SMS or #14 steel SMS (G5) or #14 410 SS SMS	S. Pine	5/8"	1"	1-3/8"	Yes
		6063-T5 Alum.	3/8"	5/8"	.0713"	Yes
		A36 Steel	3/8"	5/8"	.050"	Yes
		A653 Stud, Gr. 33	3/8"	5/8"	.045", 18 Ga.	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	6"	1-3/4"	Yes
		3.35k Concrete	2-1/2"	6"	1"	Yes
		Hollow Block	2-1/2"	6"	1-1/4"	Yes
	5/16" steel Ultracon	3.5k Concrete	1-1/4"	5"	1-3/4"	No
		Hollow Block	3-1/8"	5"	1-1/4"	No
		Filled Block	2-1/2"	5"	1-3/4"	No
	1/4" steel Ultracon+	3k Concrete	1-5/16"	4"	1-3/8"	Yes
		Hollow Block	1-3/4"	3"	1-1/4"	Yes
		S. Pine	1"	1"	1-3/8"	Yes

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

EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW; 7/16" HEAT-STRENGTHENED, LAMINATED GLASS, 1/4" MASONRY ANCHORS INTO CONCRETE, +70/-85 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.

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

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

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

FIXED CASEMENT ANCHORS:

A) FROM TABLE 11, A 34" X 61" FIXED CASEMENT WINDOW HAS A DESIGN PRESSURE OF +70/-90 USING ANCHORS 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).

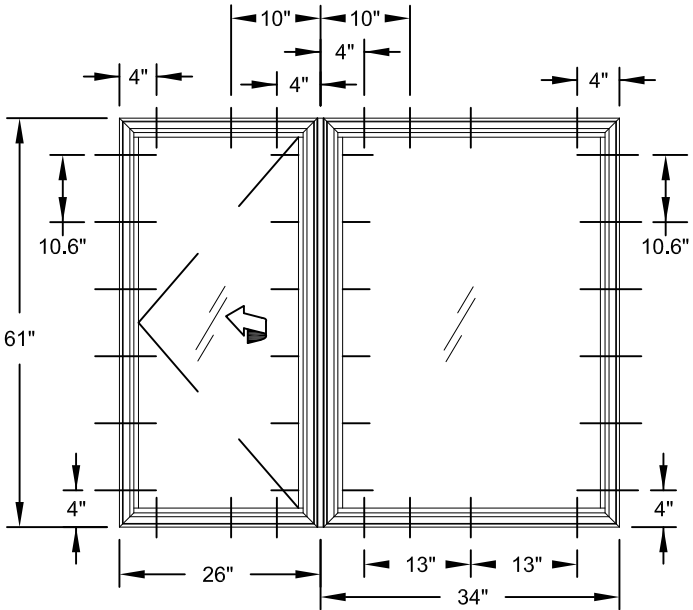
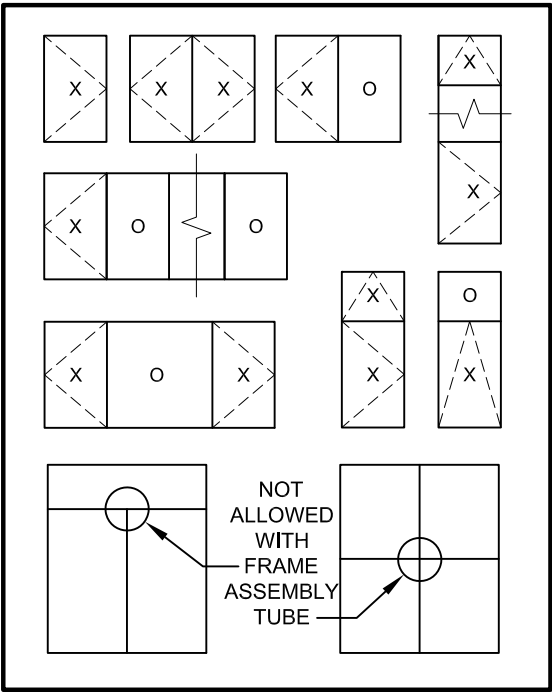
Material	Min. F _y	Min. F _u
Steel Screw	92 ksi	120 ksi
410 Screw	90 ksi	110 ksi
Elco UltraCon®	155 ksi	177 ksi
1/4" DeWalt UltraCon+®	148 ksi	164 ksi
410 SS DeWalt/Elco CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

TABLE 4:

Jamb Snubber Locations			
		Glass Type:	
		PVB (Types 1, 4 & 5)	SG (Types 2, 3 & 6-9)
Window Height	63" and less	None Required	12" max. from each end & 30" max O.C.
	over 63"	12" max. from each end & 30" max O.C.	12" max. from each end & 30" max O.C.

"PVB"= TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG"= SENTRYGLAS® BY KURARAY AMERICA, INC.

SAMPLE CONFIGURATIONS:



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By *Ishaq I. Chank*
Miami-Dade Product Control

Revision: F) REMOVED ULTRACON FROM ANCHOR TABLES.

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

REGISTRATION #29296

08/08/12

Date

A. MORLESIN

By

MD-CA740-LM

Rev.

CASEMENT WINDOW (LM)

Title

ANCHOR TYPE & QUANTITY

Desc.

4 OF 11

Sheet

CA-740

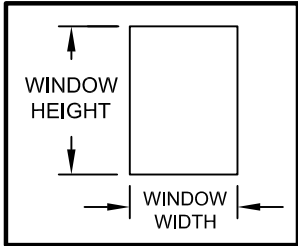
Series

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

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/31/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 5:

		Design Pressure (psf) for Single Windows, All Anchor Groups							
		Window Width							
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"	
Window Height	under 23"	+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	
	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	
	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-91	
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.2	
	60"	+70/-90	+70/-90	+70/-90	+70/-88.5	+70/-80.6	+70/-77.7	+70/-74.3	
	63"	+70/-90	+70/-90	+70/-90	+70/-84.3	+70/-76.5	+70/-73.7	+70/-70.1	
	72"	+70/-90	+70/-87.2	+70/-77.7	+60/-71.5	+60/- 62.4	+60/- 60.9	+/- 59.3	
	76"	+70/-90	+70/-84.6	+70/-75.7	+/-67.3	+/- 58.9	+/- 57.2	+/- 55.6	
	84"	+70/-90	+70/-80.4	+70/-71.3	+60/-62.1	+/- 54.2			



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

FOR GLASS TYPES:

- 1) 5/16" LAMI (1/8 AN - .090" PVB - 1/8 AN)
4) 7/8" LAMI. IG: (1/8" AN - 7/16" AIR - 1/8" AN - .090" PVB - 1/8" AN)

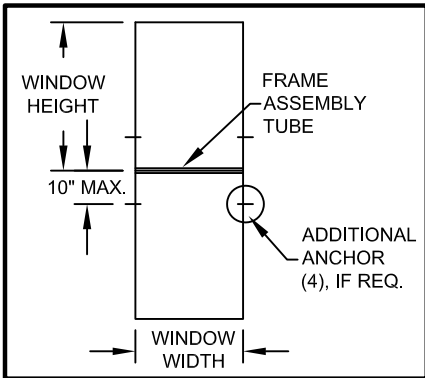
"PVB"= TROSIFOL® PVB BY KURARAY AMERICA, INC.

TABLE 6:

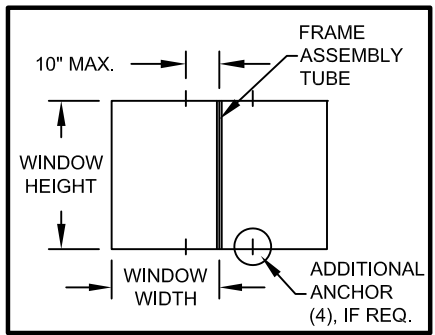
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																			
		Window Width																			
		under 23"				25-15/16"			27-3/4"			30"			33-1/2"			35"		37"	
		Anchor Group				Anchor Group			Anchor Group			Anchor Group			Anchor Group			Anchor Group		Anchor Group	
		A	B	C	D	A	B	C & D	A	B	C & D	A	B	C & D	A	B	C & D	A	B, C & D	A	B, C & D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	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
	38-3/8"	+70/-90	+70/-76.4	+70/-90	+70/-90	+70/-84.5	+70/-90	+70/-90	+70/-79	+70/-90	+70/-90	+70/-73	+70/-90	+70/-90	+70/-81.8	+70/-90	+70/-90	+70/-78.3	+70/-90	+70/-74	+70/-90
	48"	+70/-76.2	+/-61.1	+70/-73.1	+70/-90	+/-67.5	+70/-90	+70/-90	+/-63.1	+70/-90	+70/-90	+/-58.4	+70/-90	+70/-90	+/-65.4	+70/-83.9	+70/-90	+/-62.6	+70/-90	+/-59.2	+70/-90
	50-5/8"	+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	+/-62	+70/-79.5	+70/-90	+/-59.3	+70/-90	+/-56.1	+70/-89.2
	60"	+/-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/-88.5	+/-52.3	+/-67.1	+70/-80.3	+/-50.1	+70/-77.7	+/-47.4	+70/-74.3
	63"	+/-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/-84.3	+/-49.8	+/-63.9	+70/-76.5	+/-47.7	+70/-73.7	+/-45.1	+70/-70.1

TABLE 7:

		Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly 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	A	B	C & D	A	B	C & D	A	B	C & D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-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
	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
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.2	+70/-89.2	+70/-89.2
	60"	+70/-90	+70/-90	+70/-90	+70/-88.5	+70/-80.6	+70/-80.6	+70/-80.6	+70/-77.7	+70/-77.7	+70/-77.7	+70/-74.3	+70/-74.3	+70/-74.3
	63"	+70/-90	+70/-90	+70/-90	+70/-84.3	+70/-76.5	+70/-76.5	+70/-76.5	+70/-73.7	+70/-73.7	+70/-73.7	+70/-70.1	+70/-70.1	+70/-70.1
	72"	+70/-90	+70/-87.2	+70/-77.7	+70/-71.5	+60/-62.4	+60/-62.4	+60/-62.4	+60/-60.9	+60/-60.9	+60/-60.9	+/-59.3	+/-59.3	+/-59.3
	76"	+70/-90	+70/-84.6	+70/-75.7	+/-67.3	+/-58.9	+/-58.9	+/-58.9	+/-57.2	+/-57.2	+/-57.2	+/-55.6	+/-55.6	+/-55.6
	84"	+70/-90	+70/-80.4	+70/-71.3	+60/-62.1	+/-54.2	+/-54.2	+/-54.2						



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.

NOTES:

- 1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida Building Code

NOA-No. 23-0816.12

Expiration Date 04/11/2028

By Ishag I. Chank
Miami-Dade Product Control

Revision:

F) NO CHANGES IN THIS SHEET.

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

REGISTRATION #29296

Date 08/08/12

By A. MORLESIN

Rev. F

MD-CA740-LM

DWG No.

5 OF 11

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

CASEMENT WINDOW (LM)

DESIGN PRESSURES PER GLAZING TYPES

CA-740

Sheet

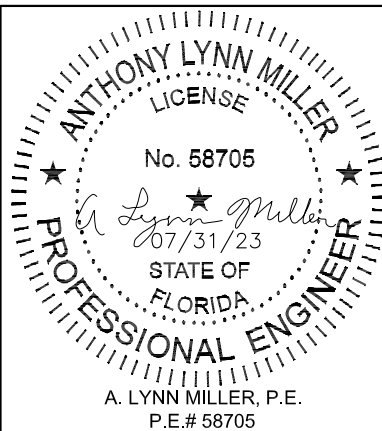
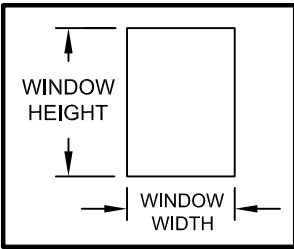


TABLE 8:

		Design Pressure (psf) for Single Windows, All Anchor Groups						
		Window Width						
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
Window Height	under 23"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	25-15/16"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	38-3/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	48"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	50-5/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	60"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	63"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.6
	72"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.1	+90/-122.5	+90/-113.8
	76"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-124.1	+90/-116.7	+90/-107.8
	84"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-116.4		



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

FOR GLASS TYPES:

2) 7/16" LAMI (3/16 AN - .090" SG - 3/16 AN)

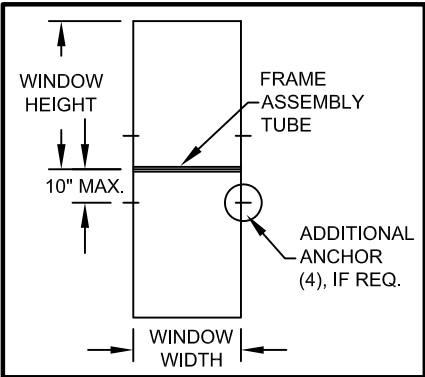
"SG"= SENTRYGLAS® BY KURARAY AMERICA, INC.

TABLE 9:

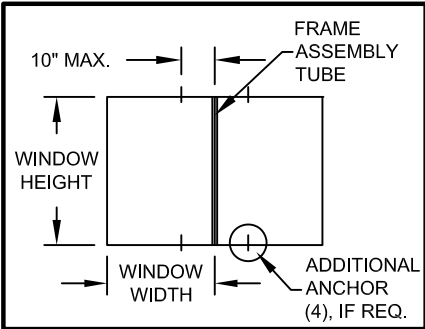
		Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube																									
		Window Width																									
		under 23"				25-15/16"			27-3/4"			30"				33-1/2"				35"				37"			
		Anchor Group				Anchor Group			Anchor Group			Anchor Group				Anchor Group				Anchor Group				Anchor Group			
Window Height	under 23"	A	B	C	D	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	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	+70/-90	+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/-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	+70/-90
	50-5/8"	+70/-90	+70/-76.2	+70/-73.1	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	60"	+70/-90	+70/-76.2	+70/-73.1	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	63"	+70/-90	+70/-76.2	+70/-73.1	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+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	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	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	+70/-90	+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/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+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	+70/-90	+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	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90

TABLE 10:

		Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly 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	A	B	C & D	A	B	C & D	A	B	C & D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-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
	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
	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
	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
	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.

NOTES:
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By Ishag I. Chank
Miami-Dade Product Control

F) NO CHANGES IN THIS SHEET.

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

REGISTRATION #29296

08/08/12

A. MORLESIN

MD-CA740-LM

6 OF 11

CA-740

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

CASEMENT WINDOW (LM)

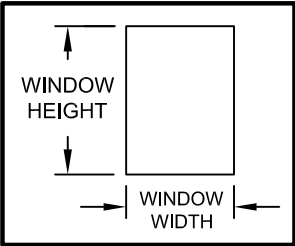
DESIGN PRESSURES PER
GLAZING TYPES

CA-740

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/31/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 11:

		Design Pressure (psf) for Single Windows, All Anchor Groups						
		Window Width						
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
Window Height	under 23"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	25-15/16"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	38-3/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	48"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	50-5/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	60"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	63"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	72"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	76"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	84"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130		



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

FOR GLASS TYPES:

- 3) 7/16" LAMI (3/16 HS - .090" SG - 3/16 HS)
7) 7/8" LAMI. IG: (3/16" AN - 1/4" AIR - 3/16" HS - .090" SG - 3/16" HS)
9) 7/8" LAMI. IG: (3/16" T - 1/4" AIR - 3/16" HS - .090" SG - 3/16" HS)

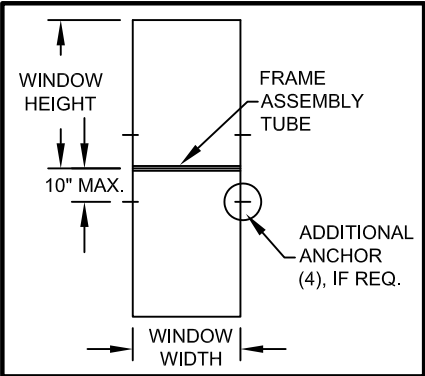
"SG"= SENTRYGLAS® BY KURARAY AMERICA, INC.

TABLE 12:

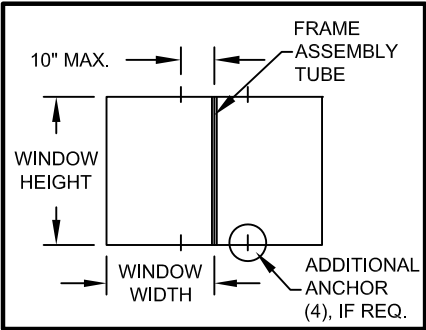
		Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube																											
		Window Width																											
		under 23"				25-15/16"			27-3/4"			30"				33-1/2"				35"				37"					
		Anchor Group				Anchor Group			Anchor Group			Anchor Group				Anchor Group				Anchor Group				Anchor Group					
Window Height		A	B	C	D	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D		
		under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	
		25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	
		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	+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/-73	+70/-90	+70/-90	+70/-90	+70/-90	+70/-78.5	+70/-90	+70/-90	+70/-90	+70/-75.1	+70/-90	+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	+/-69.2	+70/-88.7	+70/-90	+70/-90	+70/-74.4	+70/-90	+70/-90	+70/-90	+70/-71.2	+70/-90	+70/-90	+70/-90	+70/-78.6	+70/-89.9	+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	+/-58.4	+70/-74.9	+70/-89.6	+70/-90	+/-62.8	+70/-83.9	+70/-80.3	+70/-90	+/-60.1	+70/-80.2	+70/-90	+70/-90	+/-66.3	+70/-75.9	+70/-90	+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	+/-55.6	+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	+70/-90	+/-63.1	+70/-72.3	+70/-86.5	+70/-90	+70/-90		

TABLE 13:

		Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly 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	A	B	C & D	A	B	C & D	A	B	C & D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-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
	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
	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
	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
	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.

- NOTES:
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By Ishag I. Chank
Miami-Dade Product Control

F) NO CHANGES IN THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	08/08/12	A. MORLESIN	MD-CA740-LM	F
PGI Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	CASEMENT WINDOW (LM)	DESIGN PRESSURES PER GLAZING TYPES	CA-740	7 OF 11	Sheet

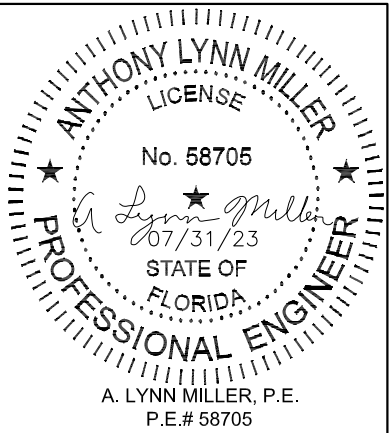
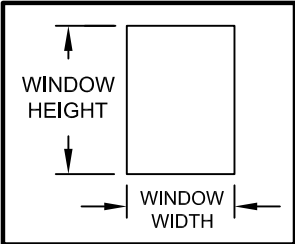


TABLE 14:

		Design Pressure (psf) for Single Windows, All Anchor Groups						
		Window Width						
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
Window Height	under 23"	+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
	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.6	+70/-84.6
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.2	+70/-84	+70/-79.9
	72"	+70/-90	+70/-90	+70/-88.5	+70/-81.5	+60/-70	+60/-69.4	+60/-67.6
	76"	+70/-90	+70/-90	+70/-86.3	+70/-76.7	+60/-67.2	+60/-65.2	+60/-63.3
	84"	+70/-90	+70/-90	+70/-81.3	+60/-70	+60/-61.8		



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

FOR GLASS TYPES:

5) 7/8" LAMI. IG: (1/8" T - 7/16" AIR - 1/8" AN - .090" PVB - 1/8" AN)

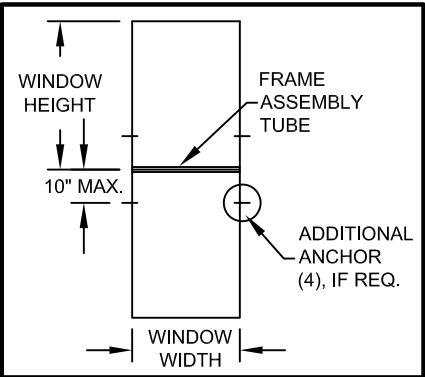
"PVB"= TROSIFOL®PVB BY KURARAY AMERICA, INC.

TABLE 15:

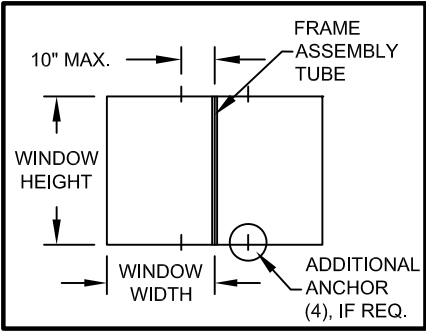
		Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube																								
		Window Width																								
		under 23"				25-15/16"			27-3/4"			30"				33-1/2"				35"			37"			
		Anchor Group				Anchor Group			Anchor Group			Anchor Group				Anchor Group				Anchor Group			Anchor Group			
		A	B	C	D	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C & D	A	B	C & D	
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90		
	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		
	38-3/8"	+70/-90	+70/-76.4	+70/-90	+70/-90	+70/-84.5	+70/-90	+70/-90	+70/-79	+70/-90	+70/-90	+70/-73	+70/-90	+70/-90	+70/-90	+70/-81.8	+70/-90	+70/-90	+70/-90	+70/-78.3	+70/-90	+70/-90	+70/-74	+70/-90	+70/-90	
	48"	+70/-76.2	+/-61.1	+70/-73.1	+70/-90	+/-67.5	+70/-90	+70/-90	+/-63.1	+70/-90	+70/-90	+/-58.4	+70/-90	+70/-90	+70/-90	+/-65.4	+70/-83.9	+70/-90	+70/-90	+/-62.6	+70/-90	+70/-90	+/-59.2	+70/-90	+70/-90	
	50-5/8"	+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/-90	+70/-90	+/-59.3	+70/-90	+70/-90	+/-56.1	+70/-89.9	+70/-90	
	60"	+/-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/-89.6	+70/-90	+/-52.3	+/-67.1	+70/-80.3	+70/-90	+/-50.1	+70/-80.2	+70/-88.6	+/-47.4	+70/-75.9	+70/-84.6	
	63"	+/-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/-90	+/-49.8	+/-63.9	+70/-76.5	+70/-87.2	+/-47.7	+70/-76.4	+70/-84	+/-45.1	+70/-72.3	+70/-79.9	

TABLE 16:

		Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly 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	A	B	C & D	A	B	C & D	A	B	C & D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-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
	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
	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-89.8	+70/-90	+70/-90
	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.6	+70/-88.6	+70/-88.6	+70/-84.6	+70/-84.6	+70/-84.6
	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.2	+70/-87.2	+70/-87.2	+70/-84	+70/-84	+70/-84	+70/-79.9	+70/-79.9	+70/-79.9
	72"	+70/-90	+70/-90	+70/-88.5	+70/-81.5	+60/-70	+60/-70	+60/-70	+60/-69.4	+60/-69.4	+60/-69.4	+60/-67.6	+60/-67.6	+60/-67.6
	76"	+70/-90	+70/-90	+70/-86.3	+70/-76.7	+60/-67.2	+60/-67.2	+60/-67.2	+60/-65.2	+60/-65.2	+60/-65.2	+60/-63.3	+60/-63.3	+60/-63.3
84"	+70/-90	+70/-90	+70/-81.3	+60/-70	+60/-61.8	+60/-61.8	+60/-61.8							



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.

- NOTES:
- 1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
 - 2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By Ishag I. Chank
Miami-Dade Product Control

F) NO CHANGES IN THIS SHEET.

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

REGISTRATION #29296

08/08/12

A. MORLESIN

MD-CA740-LM

F

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

CASEMENT WINDOW (LM)

DESIGN PRESSURES PER GLAZING TYPES

CA-740

8 OF 11

CA740

8 OF 11

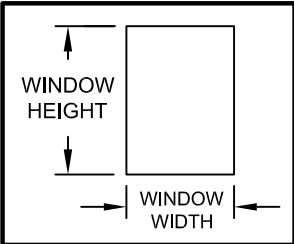
MD-CA740-LM

F

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/31/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 17:

	Design Pressure (psf) for Single Windows, All Anchor Groups							
	Window Width							
	under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"	
Window Height	under 23"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	25-15/16"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	38-3/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	48"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	50-5/8"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	60"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	63"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	72"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-124.6	+90/-115.7	
	76"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-126.2	+90/-118.7	+90/-109.6
	84"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-118.4		



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

FOR GLASS TYPES:

- 6) 7/8" LAMI. IG: (3/16" AN - 1/4" AIR - 3/16" AN - .090" SG - 3/16" AN)
8) 7/8" LAMI. IG: (3/16" T - 1/4" AIR - 3/16" AN - .090" SG - 3/16" AN)

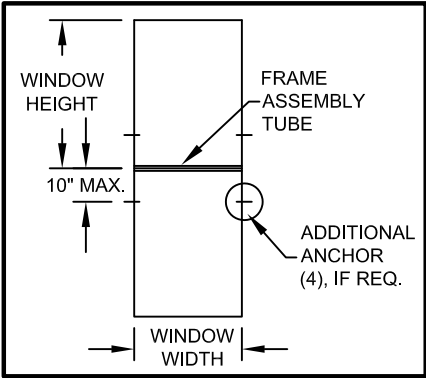
"SG"= SENTRYGLAS[®] BY KURARAY AMERICA, INC.

TABLE 18:

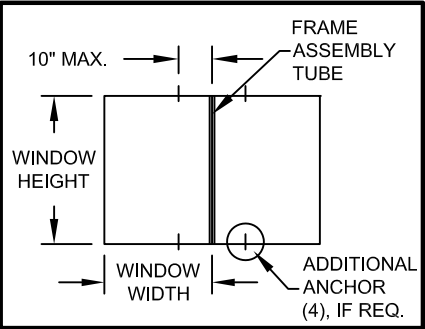
		Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube																									
		Window Width																									
		under 23"				25-15/16"			27-3/4"			30"				33-1/2"				35"			37"				
		Anchor Group				Anchor Group			Anchor Group			Anchor Group				Anchor Group				Anchor Group			Anchor Group				
		A	B	C	D	A	B	C & D	A	B	C & D	A	B	C	D	A	B	C	D	A	B	C & D	A	B	C	D	
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90		
	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		
	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/-73	+70/-90	+70/-90	+70/-90	+70/-78.5	+70/-90	+70/-90	+70/-90	+70/-75.1	+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	+/-69.2	+70/-88.7	+70/-90	+70/-90	+70/-74.4	+70/-90	+70/-90	+70/-90	+70/-71.2	+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	+/-58.4	+70/-74.9	+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	+/-55.6	+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:

		Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly 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	A	B	C & D	A	B	C & D	A	B	C & D
Window Height	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-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
	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
	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
	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
	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.

- NOTES:
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By Ishag I. Chank
Miami-Dade Product Control

F) NO CHANGES IN THIS SHEET.

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

REGISTRATION #29296

08/08/12
Date

A. MORLESIN
By

MD-CA740-LM
Rev.

9 OF 11
DWG No.

CA-740
Sheet

CASEMENT WINDOW (LM)
DESIGN PRESSURES PER
GLAZING TYPES

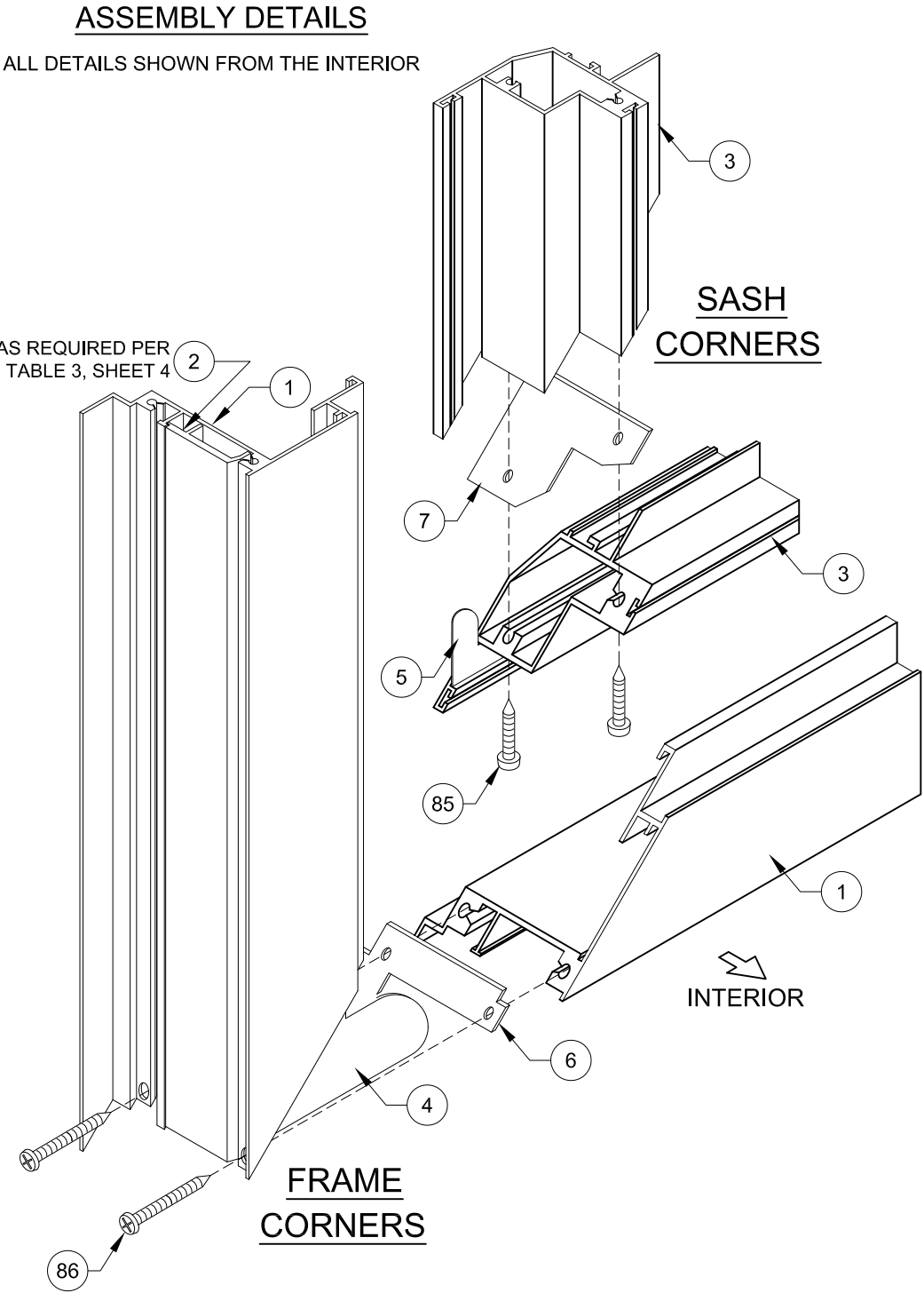
CA-740
Series

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

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/31/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 20:

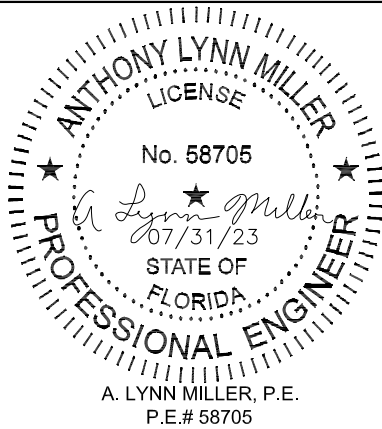
Item	Dwg. #	Description	Material
1	7002	Main Frame Head, Sill & Jamb	6063-T6 Alum.
2	7071	Anchor Plate	6063-T6 Alum.
3	7003	Sash Top, Bottom & Side Rail	6063-T6 Alum.
4	7008	Frame Corner Key	Steel
5	7009	Sash Corner Key	Steel
6	7078	Frame Gasket	Vinyl Foam
7	7072	Sash Corner Gasket	Vinyl Foam
8	7070	Bulb Weatherstrip .187" x .275"	Flex PVC 70
10	7024	Maxim Multi-Point Lock	Steel
11	7026	Lock Support Plate	Steel
12	7014	Multi-Lock Keeper	Steel
13	7013	Tie Bar Guide	Nylon
14	7015	Tie Bar Assembly	Steel or SS
15	7028	Maxim Dyad Operator, WW<=24"	Steel
16	7027	Maxim Dual Arm Operator, WW>24"	Steel
17	7030	Operator Gasket	Vinyl Foam
18	7031	Operator Backing Plate	Steel
19	7085	Operator Spacer Block	Nylon
20	7032	Stud Bracket	Steel
21	7033	Operator Track & Slider (Dual Arm)	Steel
22	7023	Egress Hinge (Heavy Duty), Manuf. by Truth	Steel
23	7050	Egress Hinge/Washable (HD), Manuf. by Truth	Steel
24		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
35	7036	Lami Bead B	6063-T6 Alum.
36	7042	Lami Bead C	6063-T6 Alum.
37	7059	Lami Bead D	6063-T6 Alum.
38	1224	Vinyl Bulb Wstp (Thick)	Flex PVC 70
39	1225	Vinyl Bulb Wstp (Thin)	Flex PVC 70
50		Dow 791, 899 or 983 Backbedding	Silicone
60	7006	Screen Frame	3105-H14 Alum.
61	7040	Screen Corner Key	Polypropolene
62		Screen Cloth	Fiberglass
63	1635	Screen Spline	EM. PVC
64	320	Screen Spring	Stainless Steel
70	134	Add-on Flange	6063-T6 Alum.
71	7004	Frame Assy Tube	6063-T6 Alum.
80		#8-32 x 1/2" Ph. Pn. Mach. Scr TYPE B	Stainless Steel
81	1157	#8 x 1/2" Ph. Pn. SMS	Stainless Steel
82		#8 x 5/8" Fl. Ph. SMS	Stainless Steel
83		#8 x 7/8" Fl. Ph. SMS	Stainless Steel
84		#8 x 1" Fl. Ph. TEK	Stainless Steel
85		#8 x 1" Quad Pn SMS	Stainless Steel
86		#8 X 1-1/2" Quad Pn SMS	Stainless Steel
87		#10 x 1/2" Ph. Pn./ TEK	Stainless Steel
89		#10-24 x 9/16" Ph. Pn. TYPE F	Stainless Steel
90		#12 x 1" Ph. Pn. TEK	Stainless Steel

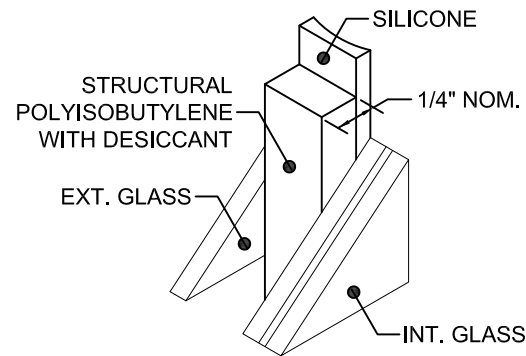


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By *Ishag I. Chank*
Miami-Dade Product Control

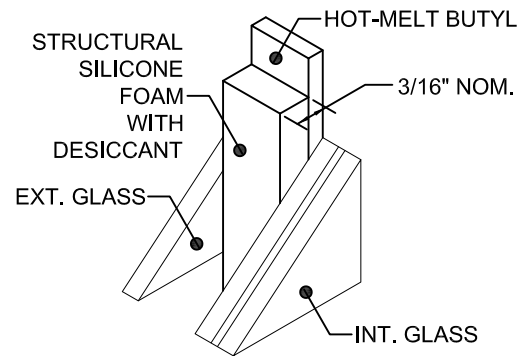
Revision:
F) NO CHANGES IN
THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	08/08/12	Rev.	F
		By	A. MORLESIN	DWG No.	MD-CA740-LM
PGI Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	CASEMENT WINDOW (LM)	BOM & CORNER VIEW	CA-740	Sheet	10 OF 11
				Series	CA-740

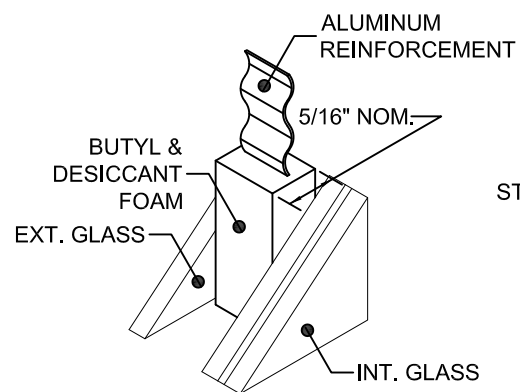




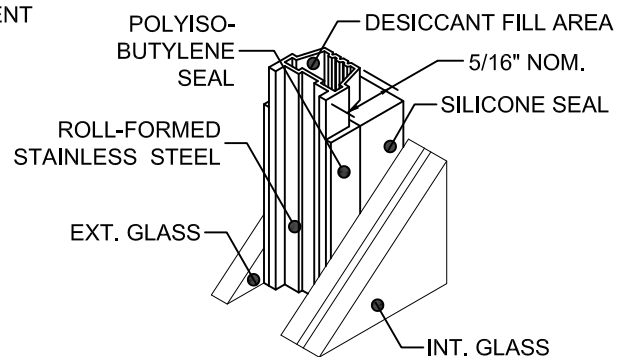
100 **KODISPACE**
4SG TPS



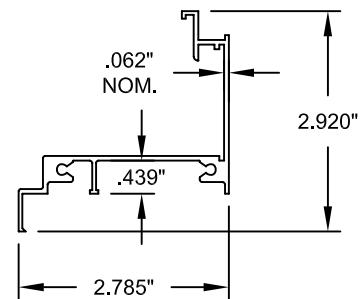
101 **SUPER**
SPACER[®] NXT[™]



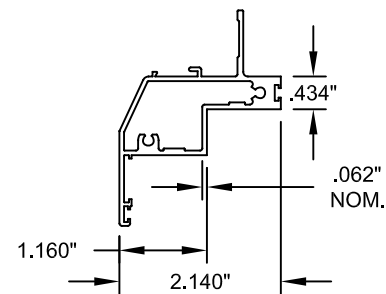
102 **DURASEAL[®]**
SPACER



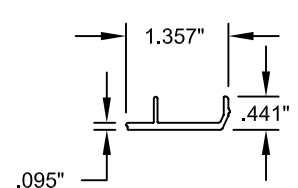
103 **XL EDGE**
SPACER[™]



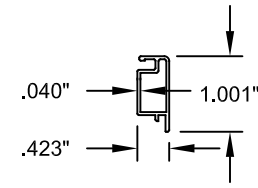
1 **FRAME HEAD,
SILL & JAMB**
#7002, 6063-T6



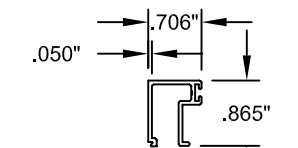
3 **SASH TOP,
BOTTOM & SIDE**
#7003, 6063-T6



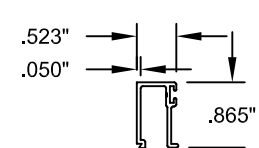
2 **ANCHOR PLATE**
#7071, 6063-T6



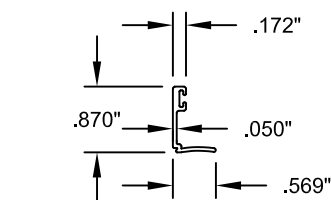
60 **FIXED
SCREEN FRAME**
#7006, 3105-H14



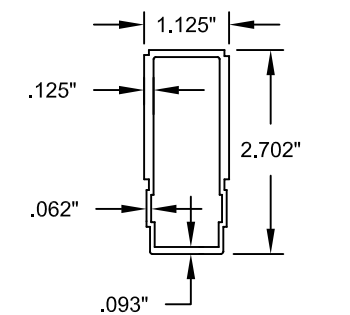
35 **BEAD B**
#7036, 6063-T6



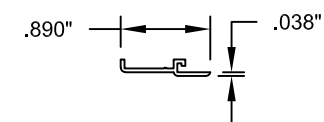
36 **BEAD C**
#7042, 6063-T6



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



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



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

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

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0816.12
Expiration Date 04/11/2028
By *Ishaq I. Chank*
Miami-Dade Product Control

Revision: F) NO CHANGES IN THIS SHEET.

 Custom Windows and Doors		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600				
		REGISTRATION #29296				
		08/08/12				
		A. MORLESIN				
Series	CA-740	11 OF 11	DWG No.	MD-CA740-LM	Rev.	F
Desc.	EXTRUSIONS & SPACERS					
Title	CASEMENT WINDOW (LM)					
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600						

