

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION

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

www.miamidade.gov/building

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc. **1070 Technology Drive** North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "CA-740" Outswing Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: 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., 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. 17-0614.14 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY **APPROVED**

NOA No. 20-0402.02 **Expiration Date: April 11, 2023 Approval Date: August 13, 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. 12-1218.09)
- 2. Drawing No. **MD-CA740-LM**, titled "Casement Window Details LM & SM", sheets 1 through 11 of 11, dated 08/08/12, with revision C dated 05/25/17, signed and sealed by Anthony Lynn Miller, P.E.

(Submitted under NOA No. 17-0614.14)

B. TESTS

- 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® spacer system, Super Spacer® NXTTM spacer system and XL EdgeTM spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.

(Submitted under NOA No. 16-0629.21)

- 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
 - 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)**, dated 06/09/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
 - (Submitted under NOA No. 17-0614.14)
- 2. Glazing complies with ASTM E1300-04

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0402.02

Expiration Date: April 11, 2023 Approval Date: August 13, 2020

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- D. QUALITY ASSURANCE
 - 1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 16-1117.01 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/19/17, expiring on 07/08/19.
- 2. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their "Kuraray SentryGlas® (Clear and White) Glass Interlayers" dated 06/25/15, expiring on 07/04/18.

F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC 5th Edition (2014) and with FBC 6th Edition (2017), dated August 29, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
 - (Submitted under NOA No. 17-0614.14)
- 2. Statement letter of no financial interest, dated June 9, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
 - (Submitted under NOA No. 17-0614.14)
- 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. 16-0629.21)

G. OTHERS

1. Notice of Acceptance No. **16-0629.21**, issued to PGT Industries, Inc. for their Series "CA-740" Outswing Aluminum Casement Window - L.M.I." approved on 08/11/16 and expiring on 04/11/18.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0402.02
Expiration Date: April 11, 2023

Approval Date: August 13, 2020

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

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 D dated 03/13/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

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

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.

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.

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0402.02

Expiration Date: April 11, 2023 Approval Date: August 13, 2020

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (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.
- 2. Statement letter of no financial interest, dated March 10, 2020, 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. 17-0614.14, 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.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0402.02
Expiration Date: April 11, 2023

Approval Date: August 13, 2020

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 <u>ARE NOT</u> 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.

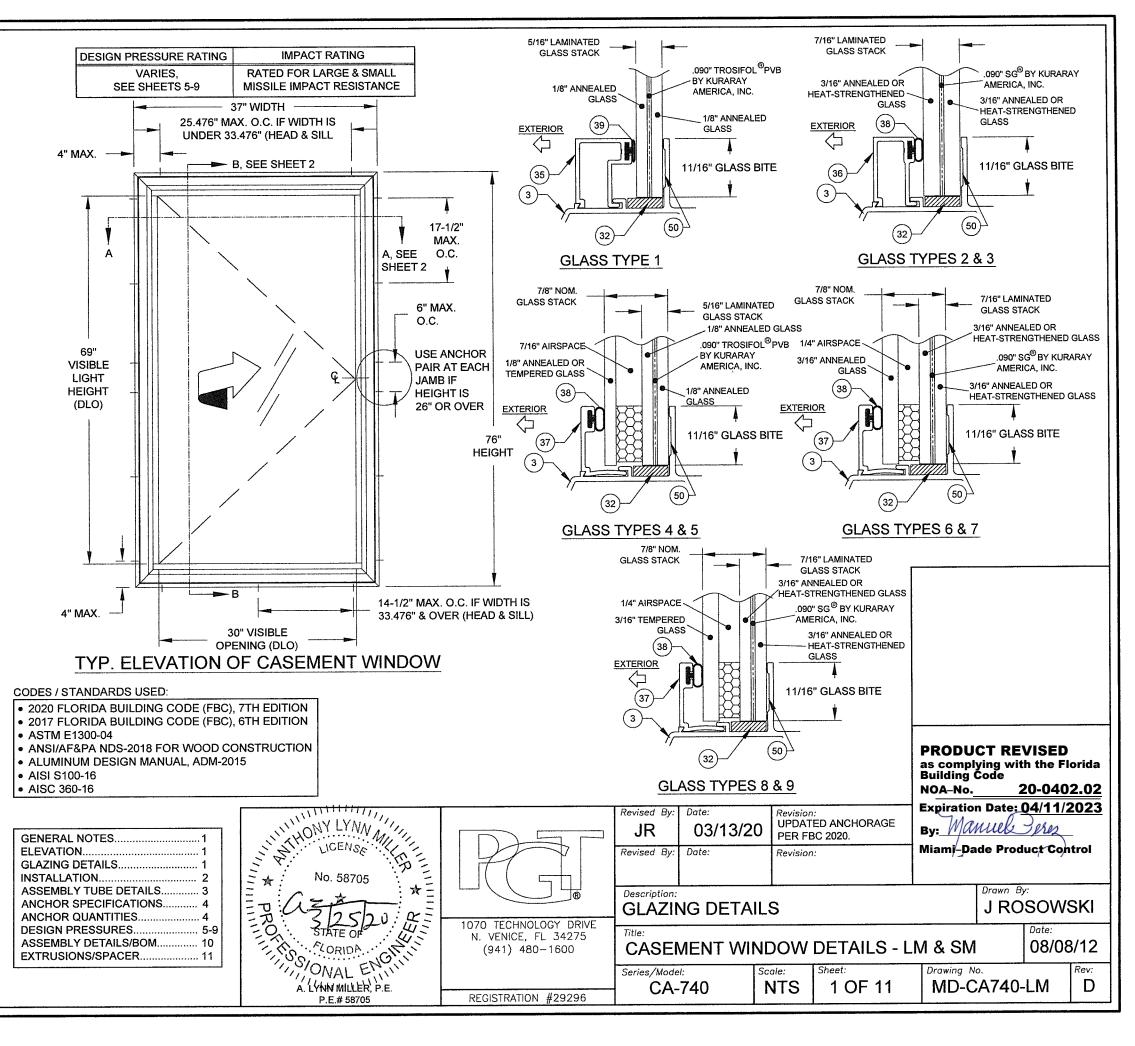
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300. C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

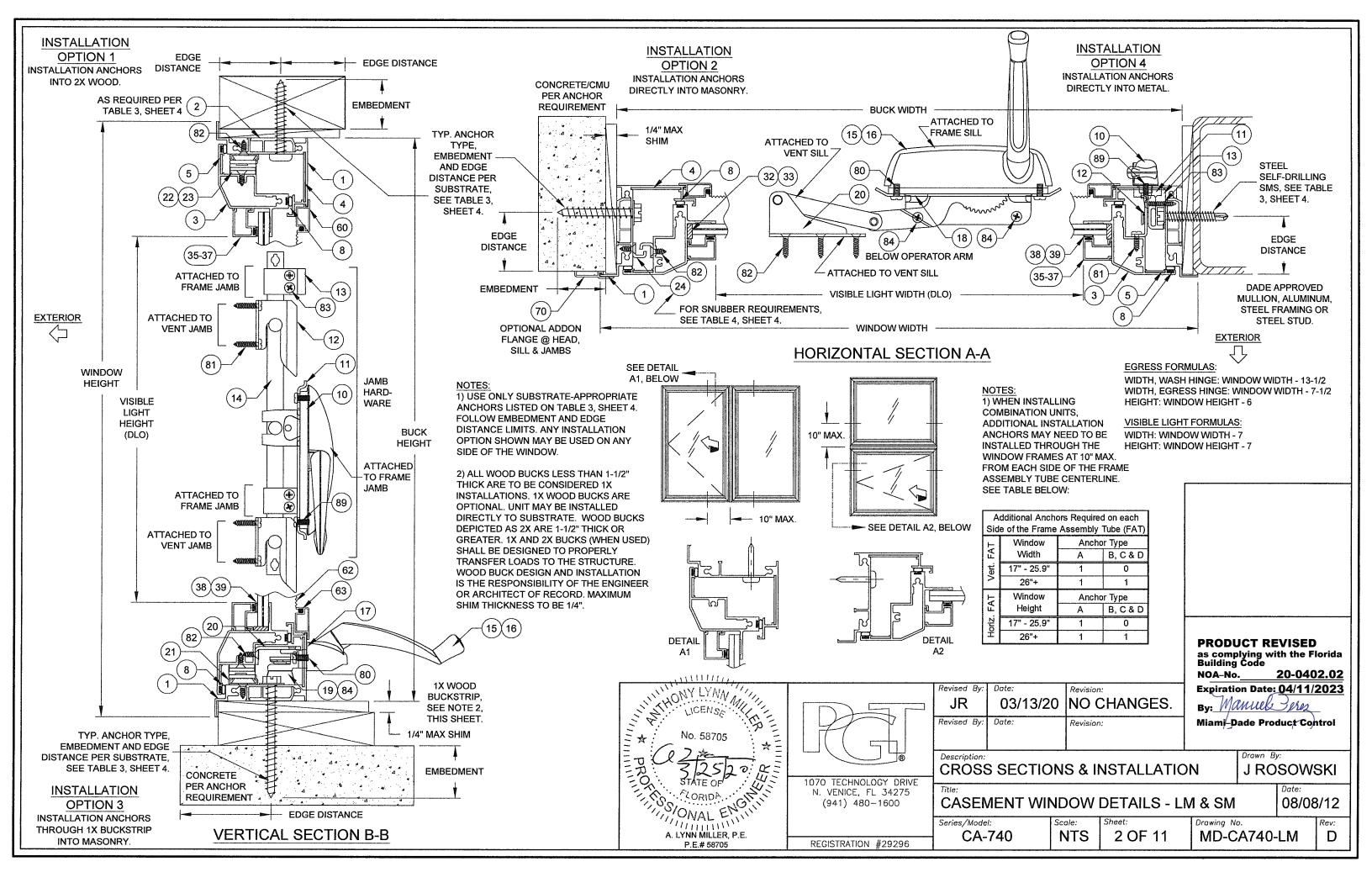
- 8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO 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.

TABLE 1:

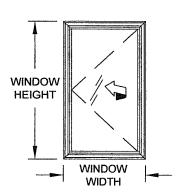
1 5/16" Lami (1/8 An090" PVB - 1/8 An)	5
2 7/16" Lami (3/16 An090" SG - 3/16 An)	6
3 7/16" Lami (3/16 HS090" SG - 3/16 HS)	7
4 7/8" Lami. IG (1/8" An - 7/16" Air - 1/8" An090" PVB - 1/8" An)	5
5 7/8" Lami. IG (1/8" T - 7/16" Air - 1/8" An090" PVB - 1/8" An)	8
6 7/8" Lami. IG (3/16" An - 1/4" Air - 3/16" An090" SG - 3/16" Ar	1) 9
7 7/8" Lami. IG (3/16" An - 1/4" Air - 3/16" HS090" SG - 3/16" HS	S) 7
8 7/8" Lami. IG (3/16" T - 1/4" Air - 3/16" An090" SG - 3/16" An)	9
9 7/8" Lami. IG (3/16" T - 1/4" Air - 3/16" HS090" SG - 3/16" HS	7

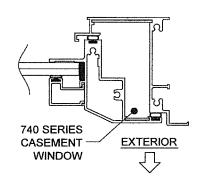
"PVB"= TROSIFOL[®] PVB BY KURARAY AMERICA, INC. "SG"= SENTRYGLAS[®] BY KURARAY AMERICA, INC.





CASEMENT (X)



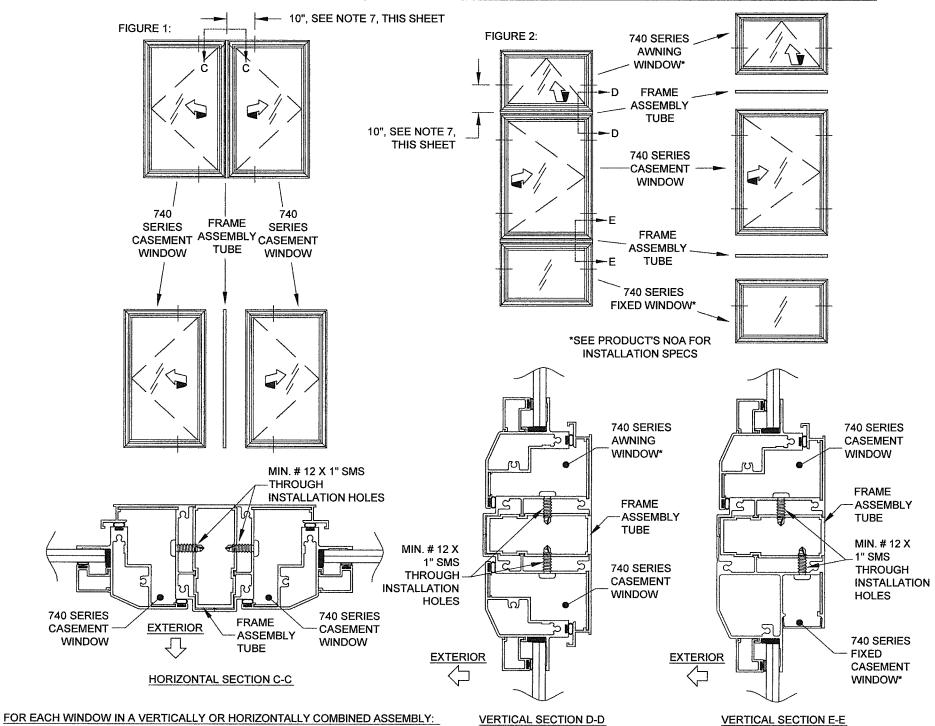


FOR SINGLE UNITS:

- 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 5-9, 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 TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLE 2. SHEET 4), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 6) INSTALL AS PER THE INSTRUCTIONS ON SHEET 2.

CASEMENT / CASEMENT (XX)

AWNING / CASEMENT / FIXED CASEMENT (XXO)



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

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0402.02

MD-CA740-LM

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CA-740

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DETAILS

WINDOW

CASEMENT

DETAIL

TUBE

ASSEMBLY

FRAME,

Expiration Date: 04/11/2023

By: Manuel Peres Miami-Dade Product Control

CHANGES

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03/13/20

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08/08/12

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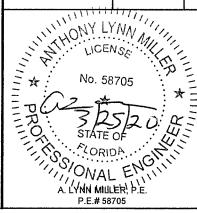
FRAME ASSEMBLY TUBE NOTES:

- 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
- NOA FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS
- COMBINATION UNIT MUST BE ABLE TO INDIVIDUALLY COMPLY WITH THE REQUIREMENTS OF THEIR RESPECTIVE NOA.

- 6) THE FRAME ASSEMBLY TUBE IS
- 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:

	dditional Ancho		
Ţ	Window	Anch	or Type
FAT	Width	Α	B, C & D
Vert.	17" - 25.9"	1	0
>	26"+	1	1
۲	Window	Anch	or Type
	Height	Α	B, C & D
Horiz. FAT	17" - 25.9"	1	0
Ĭ	26"+	1	1

- DIMENSION SHOWN ON THE TABLES. 2) ANY 740-SERIES PRODUCT (CASEMENT, AWNING OR FIXED CASEMENT) MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE, FOR ALL WINDOWS, USE THE WINDOW'S
- 3) ALL WINDOWS IN THE
- 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.
- NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.
- 7) FOR ALL COMBINATION UNITS.



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															Wi	ndow \	Vidth	(in)						/						
				unde	r 23"			25-1	5/16"			27-	3/4"			30	O"			33-	1/2"	•		3	5"			3	7"	
			/	Ancho	r Grou	р		Ancho	r Grou)	/	Ancho	Grou	י	/	Anchor	Grou)	,	Ancho	Group	9	-	Ancho	Group	3	/	Ancho	r Grou	p
			Α	В	С	D	Α	В	C	D	Α	В	C	D	Α	В	C	D	Α	В	C	D	Α	В	С	D	Α	В	С	D
	under 23"	Jamb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		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
iht (in)	 	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
Height		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
Window		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
	- 00	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	3	2	2	4	3	3	2	5	3	3	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
	, 0	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								
	04	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	2	2								
) Ū	SE THIS TA	BLE FOR A	LL W	INDO	WS P	ER TI	IE EL	EVAT	IONS	ON S	HEET	1. DII	MENS	IONS	SHO	VN AF	RE WI	NDO	N TIP-	TO-TI	P.									

Group	Anchor	Substrate	Min. Edge	Min. O.C.	Min. Embedment	Anchor Plate
			1	Distance		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
Α		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	1/4 Steel Oitracon+	Hollow Block	1"	3"	1-1/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	5"	1-3/4"	No
l	1/4 410 SS Creteriex	Hollow Block	2-1/2"	5"	1-1/4"	No
	#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
- 1		2,85k Concrete	1"	4"	1-3/4"	Yes
	4749 1 1191	2.85k Concrete	2-1/2"	4"	1-3/8"	Yes
	1/4" steel Ultracon	Hollow Block	2-1/2"	5"	1-1/4"	Yes
i		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
l		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
1		Filled Block	2-1/2"	5"	1-3/4"	No
ŀ		3k Concrete	1-5/16"	4"	1-3/8"	Yes
1	41.40 4 1.10					
	1/4" steel Ultracon+	Hollow Block	1-3/4"	3"	1-1/4"	Yes

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

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

3) ANCHORS MAY BE HEXHEAD, PANHEAD OR FLATHEAD.

4) FOR STEEL STUDS, MIN. FU = 45 KSI, MIN FY = 33 KSI.

EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW: 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
- 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).

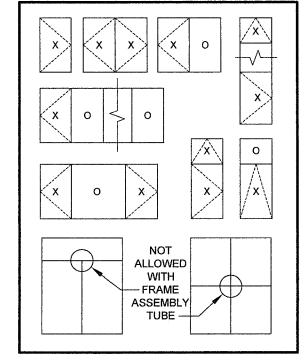
Matenal	Min. Fy	Min. Fu
Steel Screw	92 ksi	120 ksi
410 Screw	90 ksi	110 ksí
Elco UltraCon®	155 ksi	177 ksi
1/4" DeWalt UltraCon+®	148 ksi	164 ksi
410 SS DeWalt/Elco CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

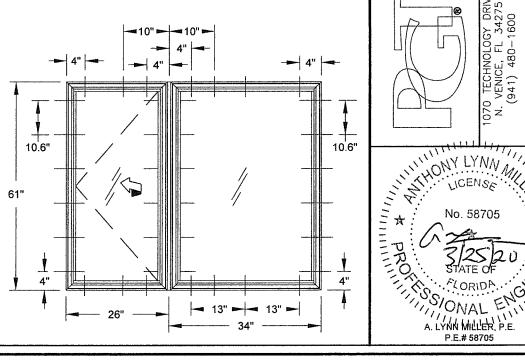
Lui- E Lui- E

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

Expiration Date: 04/11/2023

By: Manuel Perez Miami-Dade Product Control



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" 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 +70/-90 48" +70/-90 +70/-90 +70/-90 +70/-90 +70/-91 +70/-90 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

+60/-71.5

+/-67.3

+60/-62.1

+60/- 62.4

+/- 58.9

+/- 54.2

+60/- 60.9

+/- 57.2

+/- 59.3

+/- 55.6

+70/-77.7

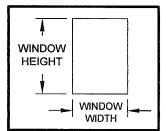
+70/-75.7

+70/-71.3

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.



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

PRODUCT REVISED as complying with the Florida Building Code

NOA-No. 20-0402.02

Expiration Date: 04/11/2023 By: Manuel Perez

CHANGES

9

03/13/20

ROSOWSKI

08/08/12

ROSOWSKI

Miami-Dade Product Control

TYPE

GLAZING

PER

DESIGN PRESSURES

MD-CA740-LM

OF

2

SM

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DETAILS.

CASEMENT WINDOW

TABLE 6:

72"

76"

84"

+70/-90

+70/-90

+70/-90

+70/-87.2

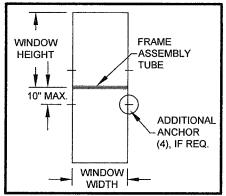
+70/-84.6

+70/-80.4

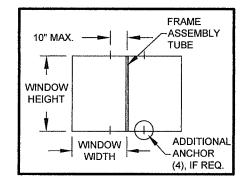
		Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube																				
											Windov	v Width				· · · · · · · · · · · · · · · · · · ·						
			unde	r 23"			25-15/16"			27-3/4"			30"		33-1/2"			3	5"	37"		
			Ancho	Group		F	Anchor Grou	р	,	Anchor Grou	р	,	Anchor Grou	р	P	Anchor Grou	ıp	Ancho	r Group	Ancho	r Group	
		Α	В	С	D	Α	В	C&D	Α	В	C&D	Α	В	C&D	Α	В	C&D	Α	B, C & D	Α	B, C & D	
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	
ᄩ	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	
ļė,	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	
July	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	
5	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	

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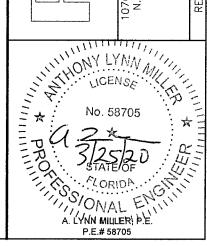
				De	esign Press	sure (psf) fo	r Windows	Attached to	o a <u>Horizon</u>	tal Frame A	ssembly T	ube				
							V	Vindow Wid	th							
		under 23"	25-15/16"	27-3/4"	30"		33-1/2"			35"			37"			
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	А	nchor Grou	ıp	Δ	nchor Grou	ıp	Anchor Group				
		All	All	All	All	Α	В	C&D	Α	В	C&D	Α	В	C&D		
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+70/-90		
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90		
	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.8	+70/-90	+70/-90		
Height	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-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		
Window	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		
Š	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.



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

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" under 23" +90/-130 +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 +90/-130 38-3/8" +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 +90/-130 60" +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

4		
WINDOW HEIGHT		
<u> </u>		
	WINDOW -	

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.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0402.02

Expiration Date: 04/11/2023

By: Manuel Perez

/liamj_Dade	Product Co	ntrol

MD-CA740-LM TYPE SM- LM & GLAZING **DETAILS**

CHANGES

9

03/13/20

ROSOWSKI

FRAME ASSEMBLY

TUBE

ADDITIONAL -ANCHOR

(4), IF REQ.

10" MAX. ——

WINDOW

3 FOR ANY ADDITIONAL ANCHORS

SEE SHEETS 1 & 4 FOR WINDOW ANCHOR

LOCATIONS AND QUANTITIES. SEE SHEET

REQUIRED FOR THE FRAME ASSEMBLY

WIDTH

WINDOW HEIGHT

TUBE.

ROSOWSKI

7

OF

9

NTS

PER 08/08/12

DESIGN PRESSURES

CASEMENT WINDOW

LICENSE MILITA No. 58705

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

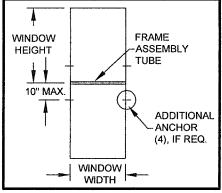
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		Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube																								
													Windov	v Width											· · · · · · · · · · · · · · · · · · ·	
		unde	er 23"			25-15/16"			27-3/4"			3	0"			33-	1/2"			35	5"			3	7"	
		Ancho	r Group		1	Inchor Grou	ıp	Α	inchor Grou	ıb		Ancho	r Group			Ancho	Group			Anchor	Group			Ancho	r Group	
	A	В	С	ā	Α	В	C&D	Α	В	C&D	Α	В	С	D	Α	В	ပ	D	Α	В	С	D	Α	В	С	D
under 23	" +70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+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/-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
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
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

TABLE 10:

TABLE 9:

				De	sign Press	ure (psf) fo	r Windows A	Attached to	a <u>Horizont</u>	<u>al</u> Frame A	ssembly Ti	ube		
							W	/indow Wid	th	 	-	·		
	<u>' </u>	under 23"	25-15/16"	27-3/4"	30"		33-1/2"			35"			37"	
{		Anchor Group	Anchor Group	Anchor Group	Anchor Group	А	Anchor Grou	р	А	nchor Grou	р	A	nchor Group	р
		All	All	All	All	Α	В	C&D	Α	В	C&D	Α	В	C&D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90
	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Height	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	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
op	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Window	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
L	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.

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

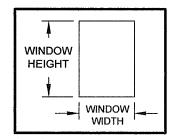
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

TAE	BLE 11:							
			Design Pre	essure (psf) fo	r Single Wind	lows, All Ancl	nor Groups	
				1	Window Widtl	1		
	لبــــا	under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
	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
Height	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
ø.	60"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
Window	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		

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.



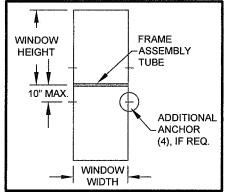
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

TABLE 12:

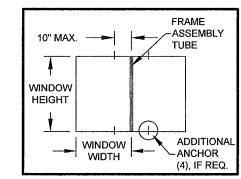
,	'LL (6.																										
ĺ											Design	Pressure	(psf) for Wi	ndows Attac	hed to a <u>∨</u>	ertical Fran	ne Assemb	ly Tube									
ſ														Window	Width												
,			unde	r 23"			25-15/16"			27-3/4"			3	0"			33-1	1/2"			35	5"			3	7"	
L			Ancho	Group		Α	nchor Grou	р	Α	nchor Grou	p		Ancho	r Group			Anchor	Group			Anchor	Group			Anchor	r Group	
		Α	В	С	D	Α	В	C&D	Α	В	C&D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Ħ	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
dei dei	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
<u>*</u>	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/-90	+70/-82.9	+70/-90	+70/-90	+70/-90
jug Jug	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
≤	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
1	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

TABLE 13:

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

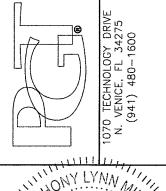


SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

PRODUCT REVISED as complying with the Florida Building Code 20-0402.02 NOA-No. Expiration Date: 04/11/2023 By: Manuel Perez Miami-Dade Product Control ê 🗅 MD-CA740-LM TYPE SM CHANGES య GLAZING - LM S 9 **DETAIL**8 PER 03/13/20 08/08/12 Z

J ROSOWSKI 08/08/12 Description:
DESIGN PRESSURES PER GTitle:
CASEMENT WINDOW DETAI

ROSOWSKI



No. 58705

No. 58705

No. 58705

STATE OF

FLORIDA

ONAL

ENGINEERS

No. 58705

NOTES:

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

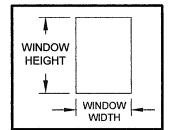
2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.

TABLE 14: Design Pressure (psf) for Single Windows, All Anchor Groups Window Width 37" under 23" 25-15/16" 27-3/4" 30" 33-1/2" 35" +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 under 23" 25-15/16" +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 38-3/8" +70/-90 +70/-90 +70/-90 +70/-90 +70/-90 48" +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 +60/-65.2 +60/-63.3 76" +70/-90 +70/-90 +70/-86.3 +70/-76.7 +60/-67.2 84" +70/-90 +70/-90 +70/-81.3 +60/-70 +60/-61.8

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.



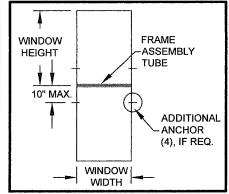
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

TA	BL	E.	15

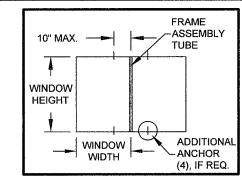
										Design	Pressure	(psf) for Wi	ndows Atta	ched to a <u>V</u>	ertical Fran	ne Assemb	ly Tube								
۱г		·								············			Windov	v Width	***************************************		'						 		
			unde	r 23"			25-15/16"			27-3/4"			30	O"			33-	1/2"			35"			37"	
-			Anchor	Group		Α	nchor Grou	р	A	Anchor Grou	р		Ancho	Group			Ancho	Group		Δ	nchor Grou	р	Α	nchor Grou	p
		Α	В	С	D	Α	В	C&D	Α	В	C&D	Α	В	С	ם	Α	В	С	D	Α	В	C&D	Α	В	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
ᆂ	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
leig	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
Š	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
lig	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 P	ressure (ps	f) for Windo	ws Attache	ed to a <u>Horiz</u>	ontal Frame	Assembly To	ube		
								Window	Width					
		under 23"	25-15/16"	27-3/4"	30"		33-1/2"			35"			37"	
┞┖		Anchor Group	Anchor Group	Anchor Group	Anchor Group	А	nchor Grou	ıp	A	Anchor Group)	A	Anchor Group)
		All	All	Ali	All	Α	В	C&D	Α	В	C&D	Α	В	C&D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90
١	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-88.8	+70/-90	+70/-90
Height	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-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
ğ	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
Window	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
ح	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.

Revised By:

J ROSOWSKI 03/13/20 NO CHANGES

Drawn By:

J ROSOWSKI 08/08/12

PRODUCT REVISED

By: Manuel Perez

NOA-No.

as complying with the Florida Building Code

Expiration Date: 04/11/2023

Miami-Dade Product Control

TYPE

GLAZING

PER

DESIGN PRESSURES

STATE OF STA

A. LYNN MILLER, P.E.

20-0402.02

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MD-CA740-LM

OF

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NTS

S/Model: CA-740

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DETAILS

CASEMENT WINDOW

			·					
TAI	BLE 17:							
			Design Pre	essure (psf) fo	r Single Wind	lows, All Ancl	nor Groups	
				,	Window Width	1	······································	
		under 23"	25-15/16"	27-3/4"	30"	33-1/2"	35"	37"
		100/400	100/420	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	under 23"	+90/-130	+90/-130	T901-130	190/-130	1307-130	+90/+130	T-501-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-126.2

+90/-118.4

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-124.6

+90/-118.7 +90/-109.6

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-115.7

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

OR (GLA	SS	TY	PES	3:
------	-----	----	----	-----	----

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.

PRODUCT REVISED as complying with the Florida Building Code

20-0402.02 NOA-No. Expiration Date: 04/11/2023

By: Manuel Perez Miami-Dade Product Control

TYPE

GLAZING

PER

DESIGN PRESSURES

A. LYNN MILLER, P.E.

CHANGES

9

03/13/20

ROSOWSKI

08/08/12

ROSOWSKI

SM

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DETAILS

WINDOW

CASEMENT

₽ P

MD-CA740-LM

OF

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CA-740

—	
WINDOW HEIGHT	
<u> </u>	
	WINDOW WIDTH

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

TAB	LE	18:

38-3/8"

48"

50-5/8"

60"

63"

72"

76"

84"

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

+90/-130

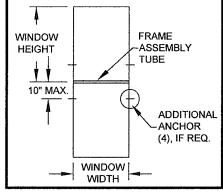
+90/-130

+90/-130

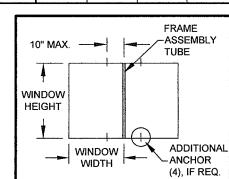
											Design Pres	sure (psf) f	or Windows	Attached t	o a <u>Vertica</u>	al Frame As	sembly Tul	be								
Γ						٠							V	indow Widt	h										***************************************	
			unde	r 23"			25-15/16"			27-3/4"			3()"			33-	1/2"			35"			37	ru	
. L.			Anchor	Group		Α	nchor Grou	p	Α	nchor Grou	ıb		Ancho	Group			Ancho	r Group		А	nchor Grou	p		Anchor	Group	
		Α	В	С	D	Α	В	C&D	Α	В	C&D	Α	В	С	D	Α	В	С	D	Α	В	C&D	Α	В	С	D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Ħ	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
łeig	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
NO.	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
jud	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
3	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 Horizontal 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	Ali	Ali	Α	В	C&D	Α	В	C&D	Α	В	C&D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90
L.	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Height	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
운	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Š	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Window	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
>	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
}	76"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90						



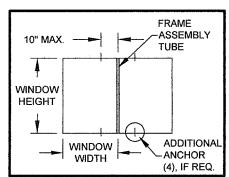
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.



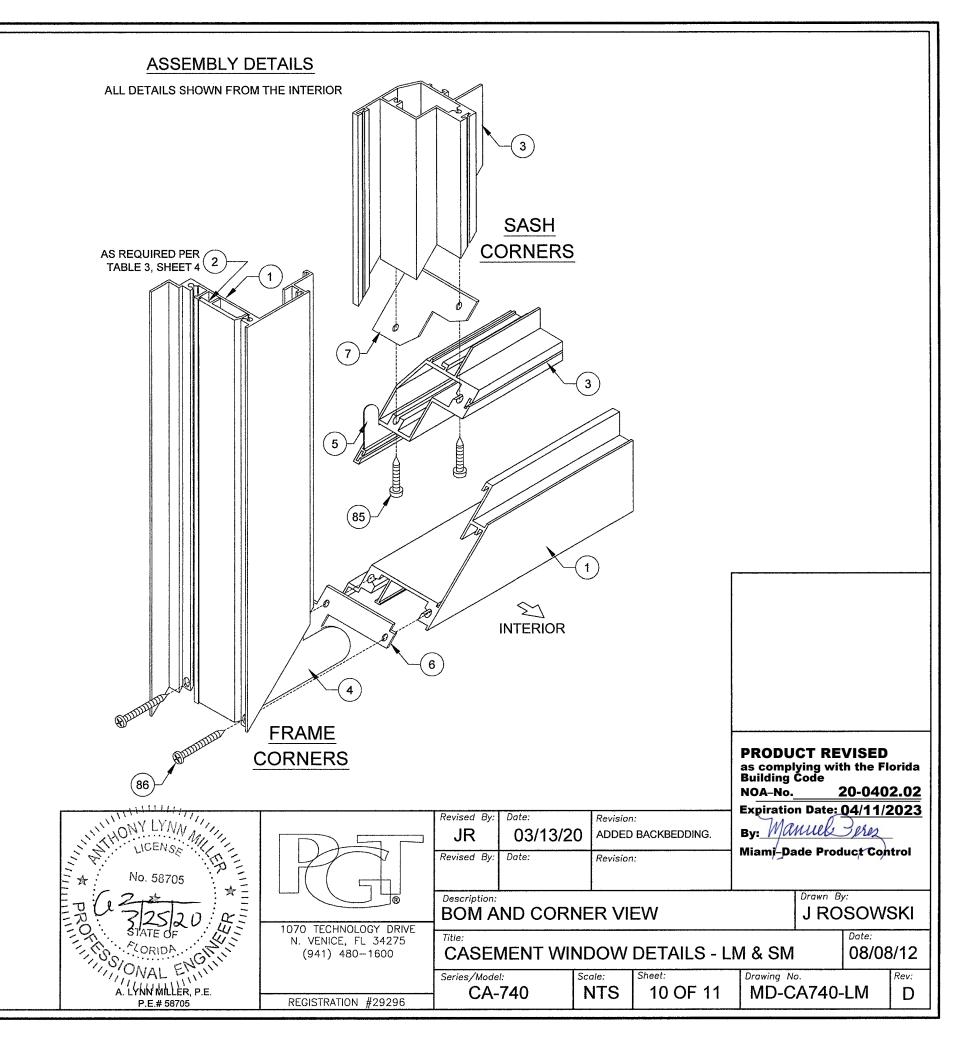
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE.

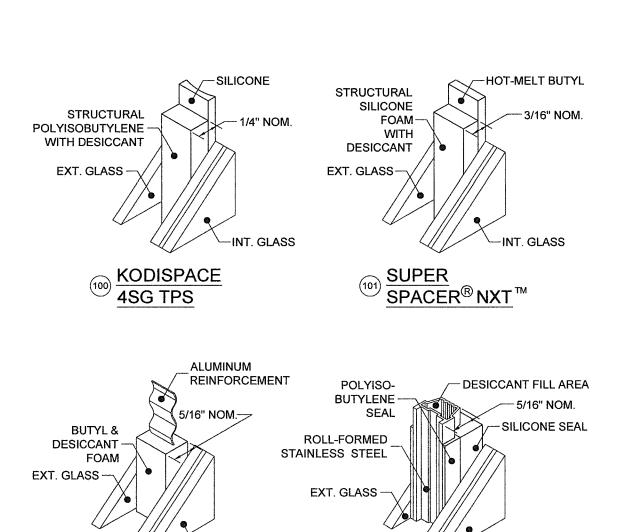
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

2) SEE SHEET 4 FOR SNUBBER REQUIREMENTS.



ltem	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	7051	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	1 7000	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	1225	Dow 791, 899 or 983 Backbedding	Silicone
60	7006	Screen Frame	3105-H14 Alun
61	7040	Screen Corner Key	Polypropolene
62	7040	Screen Cloth	
	4005		Fiberglass
63 64	1635	Screen Spline	EM. PVC
	320	Screen Spring	Stainless Stee
70	134	Add-on Flange	6063-T6 Alum
71	7004	Frame Assy Tube	6063-T6 Alum
80	4457	#8-32 x 1/2" Ph. Pn. Mach. Scr TYPE B	Stainless Stee
81	1157	#8 x 1/2" Ph. Pn. SMS	Stainless Stee
82		#8 x 5/8" FI. Ph. SMS	Stainless Stee
83		#8 x 7/8" FI. Ph. SMS	Stainless Stee
84		#8 x 1" Fl. Ph. TEK	Stainless Stee
85	ļ	#8 x 1" Quad Pn SMS	Stainless Stee
86		#8 X 1-1/2" Quad Pn SMS	Stainless Stee
87		#10 x 1/2" Ph. Pn./ TEK	Stainless Stee
89		#10-24 x 9/16" Ph. Pn. TYPE F	Stainless Stee
90		#12 x 1" Ph. Pn. TEK	Stainless Stee





-INT. GLASS

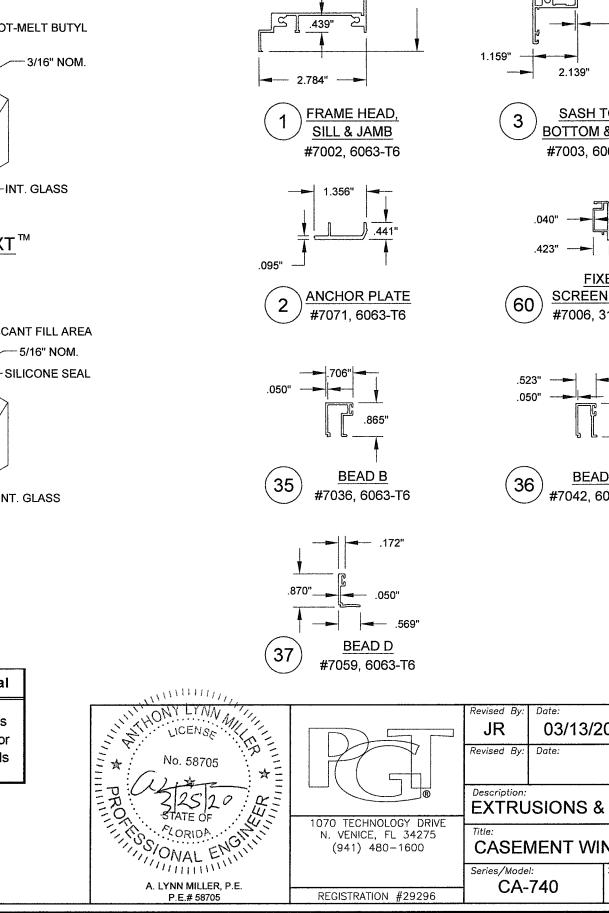
XL EDGE[™] **SPACER**

Part #	Description	Material		
100	Kommerling 4SG TPS Spacer System	0 11-1-		
101	Quanex Super Spacer nXT with Hot Melt Butyl	See this Sheet for Materials		
102	Quanex Duraseal Spacer			
103	03 Cardinal XL Edge Spacer			
	NCE TEST REPORTS: FTL-8717, 8968 & 8970	_ L		

-INT. GLASS

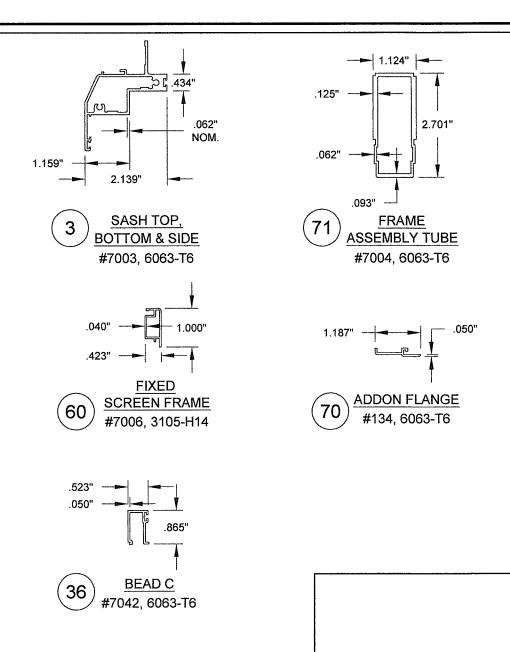
ODURASEAL®

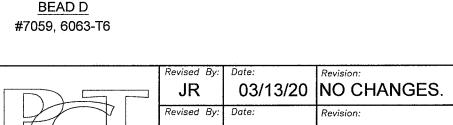
SPACER



.062" NOM.

2.919"





PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0402.02 Expiration Date: 04/11/2023

By: Manuel Perez Miami-Dade Product Control

EXTRUSIONS & SPACERS

Drawn By: **J ROSOWSKI**

D

CASEMENT WINDOW DETAILS - LM & SM

08/08/12

REGISTRATION #29296

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275

(941) 480-1600

Series/Model: CA-740 NTS

Drawing No. MD-CA740-LM 11 OF 11