

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 **E** dated 03/01/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami–Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: 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 and renews NOA No. 20-0402.02 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

NOA No. 23-0303.04 Expiration Date: April 11, 2028 Approval Date: March 30, 2023 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 12-1218.09)
- 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® 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)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0303.04
Expiration Date: April 11, 2028

Approval Date: March 30, 2023

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- 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. **OUALITY 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. 23-0303.04
Expiration Date: April 11, 2028

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PGT Industries, Inc.

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.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0303.04
Expiration Date: April 11, 2028

Approval Date: March 30, 2023

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. MD-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.

Manuel Perez, P.E. Product Control Examiner NOA No. 23-0303.04

Expiration Date: April 11, 2028 Approval Date: March 30, 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.
- 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.
- NOT FLUSH TO THE SUBSTRATE, USE SHIMS CAPABLE OF TRANSFERRING

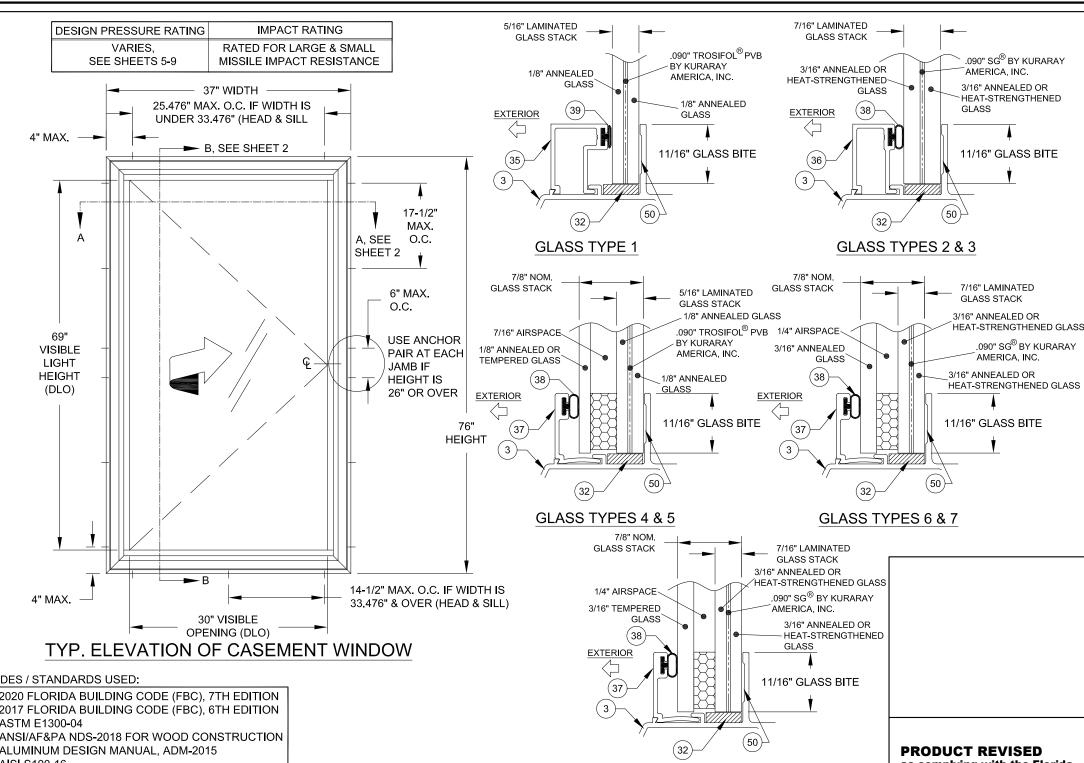
FRAME ANALYSIS AND GLASS PER ASTM E1300.

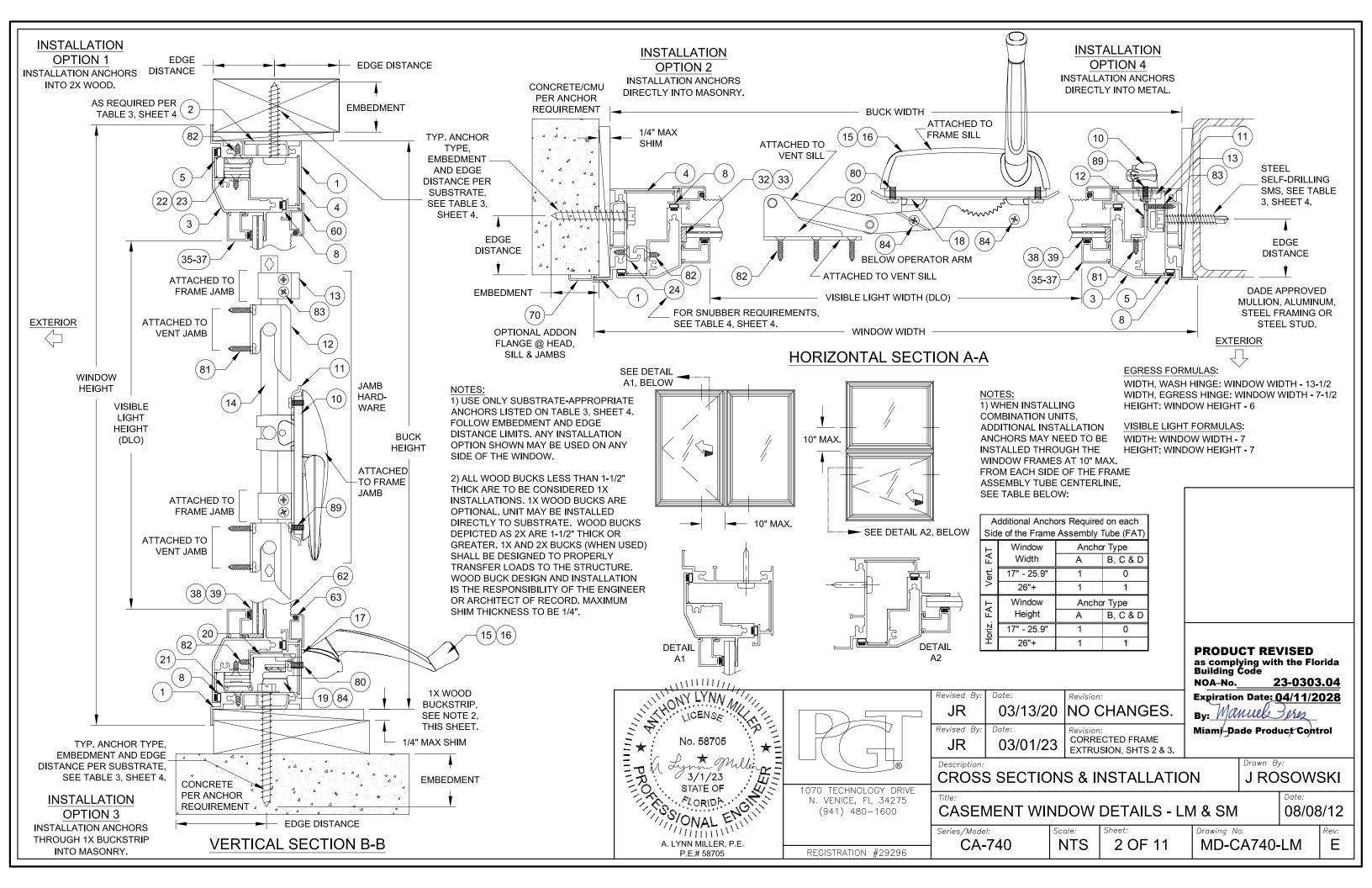
- CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
- WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS ANCHORS INTO WOOD, ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- NOA; ELCO ULTRACON NOA; DEWALT/ELCO CRETEFLEX NOA; ANSI/AF&PA NDS

TABLE 1:

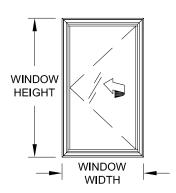
	Glass Types	Sheet #
1	5/16" Lami (1/8 An090" PVB - 1/8 An)	5
2	7/16" Lami (3/16 An090" SG - 3/16 An)	6
3	7/16" Lami (3/16 HS090" SG - 3/16 HS)	7
4	7/8" Lami. IG (1/8" An - 7/16" Air - 1/8" An090" PVB - 1/8" An)	5
5	7/8" Lami. IG (1/8" T - 7/16" Air - 1/8" An090" PVB - 1/8" An)	8
6	7/8" Lami. IG (3/16"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

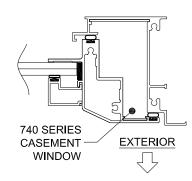
BY KURARAY .090" SG[®] BY KURARAY 5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING 3/16" ANNEALED **VISIBLE** 1/8" ANNEALED OR PAIR AT EACH AMERICA, INC. TEMPERED GLASS GLASS LIGHT JAMB IF 3/16" ANNEALED OR **HEIGHT** (38) HEIGHT IS 38 1/8" ANNEALED **HEAT-STRENGTHENED GLASS** (DLO) GLASS 26" OR OVER **EXTERIOR** EXTERIOR 11/16" GLASS BITE 11/16" GLASS BITE 76" (37) (37)**HEIGHT** 6) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS APPLIED LOADS, WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED (50) TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW. GLASS TYPES 4 & 5 GLASS TYPES 6 & 7 7) DESIGN PRESSURES: A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, **GLASS STACK** 7/16" LAMINATED B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ GLASS STACK 3/16" ANNEALED OR HEAT-STRENGTHENED GLASS C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD. 14-1/2" MAX, O.C. IF WIDTH IS 1/4" AIRSPACE .090" SG[®] BY KURARAY 4" MAX. 33.476" & OVER (HEAD & SILL) 3/16" TEMPERED AMERICA, INC. 8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE 30" VISIBLE GLASS 3/16" ANNEALED OR OPENING (DLO) (38) HEAT-STRENGTHENED TYP. ELEVATION OF CASEMENT WINDOW GLASS PRODUCT, THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF **EXTERIOR** CODES / STANDARDS USED: 11/16" GLASS BITE (37) 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION 9) REFERENCES: TEST REPORTS FTL-7065, 3579, 3580, 3724; DEWALT ULTRACON+ ASTM E1300-04 ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL. ALUMINUM DESIGN MANUAL, ADM-2015 **PRODUCT REVISED** as complying with the Florida Building Code AISI S100-16 AISC 360-16 GLASS TYPES 8 & 9 LICENSE LICENSE 23-0303.04 NOA-No. THE PROFILE Revised By: Expiration Date: 04/11/2028 **UPDATED ANCHORAGE** 03/13/20 JR By: Manuel Peres GENERAL NOTES. PER FBC 2020. ELEVATION. Revised By Miami-Dade Product Control GLAZING DETAILS. CORRECTED FRAME No. 58705 03/01/23 JR INSTALLATION. EXTRUSION, SHTS 2 & 3. ASSEMBLY TUBE DETAILS. \star Drawn By Description ANCHOR SPECIFICATIONS. **GLAZING DETAILS** J ROSOWSKI 0 3/1/23 ANCHOR QUANTITIES. STATE OF 1070 TECHNOLOGY DRIVE DESIGN PRESSURES. N. VENICE, FL 34275 SONAL. ASSEMBLY DETAILS/BOM.. 10 CASEMENT WINDOW DETAILS - LM & SM 08/08/12 (941) 480-1600EXTRUSIONS/SPACER. Series/Model: Drawina No. 'PVB"= TROSIFOL[®] PVB BY KURARAY AMERICA, INC. A. LYNN MILLER, P.E. CA-740 NTS 1 OF 11 MD-CA740-LM "SG"= SENTRYGLAS[®] BY KURARAY AMERICA. INC. REGISTRATION #29296 P.E.# 58705





CASEMENT (X)



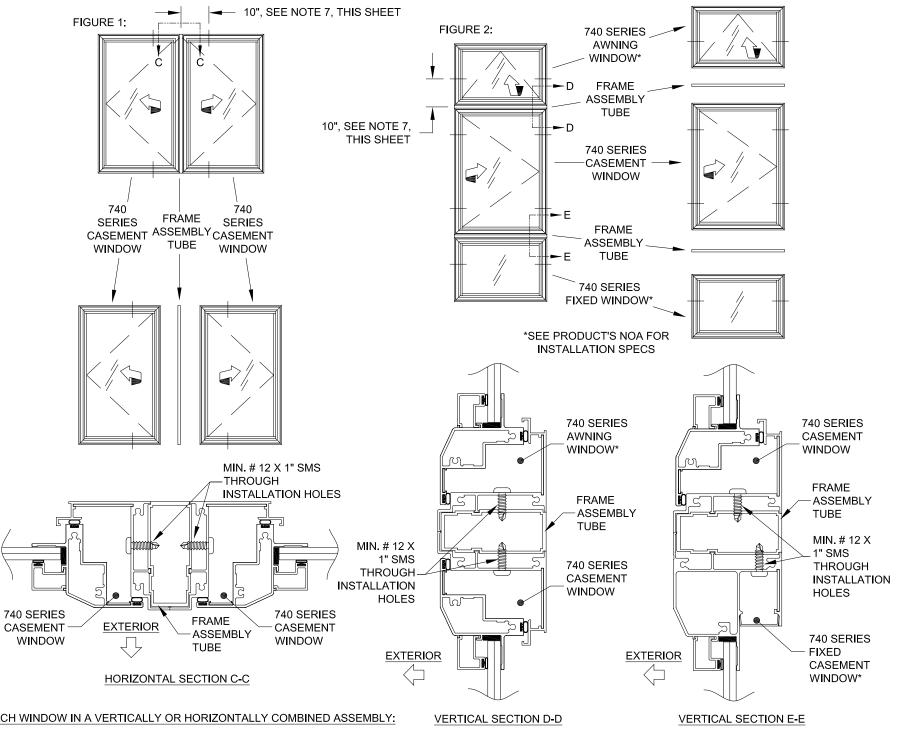


FOR SINGLE UNITS:

- 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)



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 5-9, 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 (PSF) FOR WINDOWS ATTACHED TO A HORIZONTAL FRAME ASSEMBLY TUBE", DEPENDING ON WHICH WAY THE FRAME ASSEMBLY TUBE IS ORIENTATED. THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.

4) USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLE 2, SHEET 4), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.

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

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.04

Expiration Date: 04/11/2028

By: Manuel Peres Miami-Dade Product Control

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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 DIMENSION SHOWN ON THE TABLES.
- 2) ANY 740-SERIES PRODUCT
- 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
- 6) THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE, ALL EXTERIOR
- 7) FOR ALL COMBINATION UNITS. ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE

\vdash	Window	Anc	nor Type
FA	Width	Α	B, C & D
Vert. FAT	17" - 25.9"	1	0
>	26"+	1	1
Ь	Window	Anc	nor Type
₹	Height	Α	B, C & D
Horiz. FAT	17" - 25.9"	1	0
Ĭ	26"+	1	1

Additional Anchors Required on each

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

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No. 58705 No. 58705 Adding Market Construction of the constructi	

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				unde	r 23"			25-15/16"				27-3/4"			30"			33-1/2"				35"				37"				
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_			Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	
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1		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
L		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
ı	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
Window Height (in)	134	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
1	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
Ĺ	00 0/0	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
8	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
L	J7.7	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
4	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
L		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
1	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
L		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
1	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
L	, 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
ſ	84"	Jamb	12	8	8	6	14	10	8	6	14	10	8	6	16	10	8	6	16	10	8	6								
1	04	Head/Sill	2	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	4	3	2	2								

Group	Anchor	Substrate	Min. Edge	Min. O.C.	Min. Embedment	Anchor Plate
				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
7.7	#14 410 SS SMS	A36 Steel	3/8"	5/8"	.050"	No
Α	#14 410 00 0M0	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
	Francisco State	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
C	1/4" steel Ultracon+	3k Concrete	1"	4"	1-3/8"	Yes
	1/4 Steel Oltracon+	Hollow Block	1"	3"	1-1/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	1"	5"	1-3/4"	No
	1/4 410 33 Creteriex	Hollow Block	2-1/2"	5"	1-1/4"	No
- 6 '	#12 steel SMS (G5) or	S. Pine	5/8"	1"	1-3/8"	Yes
	#12 410 SS SMS or	6063-T5 Alum.	3/8"	5/8"	.0713"	Yes
	#14 steel SMS (G5) or	A36 Steel	3/8"	5/8"	.050"	Yes
	#14 410 SS SMS	A653 Stud, Gr. 33	3/8"	5/8"	.045", 18 Ga.	Yes
		2.85k Concrete	1"	4"	1-3/4"	Yes
	A/A!! - 4 1	2.85k Concrete	2-1/2"	4"	1-3/8"	Yes
4	1/4" steel Ultracon	Hollow Block	2-1/2"	5"	1-1/4"	Yes
		Filled Block	2-1/2"	4"	1-3/4"	Yes
D		3.35k Concrete	1"	6"	1-3/4"	Yes
	1/4" 410 SS CreteFlex	3.35k Concrete	2-1/2"	6"	1"	Yes
		Hollow Block	2-1/2"	6"	1-1/4"	Yes
		3.5k Concrete	1-1/4"	5"	1-3/4"	No
	5/16" steel Ultracon	Hollow Block	3-1/8"	5"	1-1/4"	No
	Free North Comment of the	Filled Block	2-1/2"	5"	1-3/4"	No
		3k Concrete	1-5/16"	4"	1-3/8"	Yes
	1/4" steel Ultracon+	Hollow Block	1-3/4"	3"	1-1/4"	Yes
	The state of the state of the	S. Pine	1"	1"	1-3/8"	Yes

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

- 2) ANCHOR MUST EXTEND A MIMIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 3) ANCHORS MAY BE HEXHEAD, PANHEAD OR FLATHEAD.
- 4) FOR STEEL STUDS, MIN. FU = 45 KSI, MIN FY = 33 KSI.

EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW; 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.

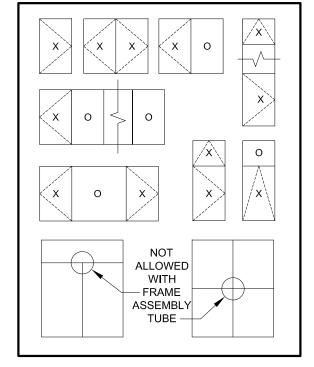
- B) FOR THE JAMB, FROM TABLE 3, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETEFLEX ANCHOR.
- C) FROM TABLE 2A, 6 ANCHORS ARE REQUIRED IN EACH JAMB.
- D) SIMILARLY, 3 ANCHORS ARE REQUIRED IN THE HEAD & SILL.
- E) DISTRIBUTE ANCHORS FOLLOWING 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).

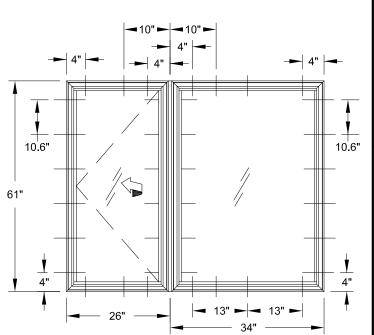
	Material	Min. F _y	Min. F _u
	Steel Screw	92 k si	120 ksi
	410 Screw	90 ksi	110 ksi
	Elco UltraCon®	155 ksi	177 ksi
	1/4" DeWalt UltraCon+®	148 ksi	164 ksi
4	10 SS DeWalt/Elco CreteFlex®	127.4 ksi	189.7 ksi
	6063-T5 Aluminum	16 ksi	22 ksi
	A36 Steel	36 ksi	58 ksi
	Gr. 33 Steel Stud	33 ksi	45 ksi

TAE	BLE 4:									
	Jamb Snubber Locations									
		Glass	туре:							
		PVB (Types 1, 4 & 5)	SG (Types 2, 3 & 6-9)							
Height	63" and less	None Required	12" max. from each end & 30" max O.C.							
Window Height	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. 23-0303.04

Expiration Date: 04/11/2028

By: Manuel Pres

Miami-Dade Product Control

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Revision:	J ROSOWSKI 03/01/23 MAT. PROP. TABLE		ПТУ	Title: CASEMENT WINDOW DETAILS - LM & SM	cale: Sheet: Drawing No.				
Rev	/23	/12	QUAN	N DET	Sheet:	ე - -			
Date:	03/01	Date: 08/08	E AND	/INDO/	Scale:	<u>-</u>			
Revised By:	J ROSOWSKI	Drawn By: J ROSOWSKI 08/08/12	Description: ANCHOR TYPE AND QUANTITY	Title: CASEMENT W	Series/Wodel:	047-40			
				10/0 1ECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296			
	LYNN MILLIONY LYNN MILLIONSE MILLION								

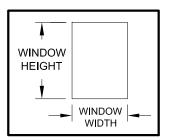
A. LYNN MILLER, P.E.

TABLE 5: Design Pressure (psf) for Single Windows, All Anchor Groups Window Width 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 under 23" 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 +70/-90 +70/-90 +70/-90 +70/-90 +70/-91 48" +70/-90 +70/-90 50-5/8" +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 +70/-90 +70/-84.6 +70/-75.7 +/-67.3 +/- 58.9 +/- 57.2 +/- 55.6 76" 84" +70/-90 +70/-80.4 +70/-71.3 +60/-62.1 +/- 54.2

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. 23-0303.04 Expiration Date: 04/11/2028

By: Manuel Peres Miami-Dade Product Control

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CHANGES

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03/01/23

ROSOWSKI

FRAME ASSEMBLY

TUBE

ADDITIONAL

- ANCHOR

10" MAX.

WINDOW

HEIGHT

TUBE.

WINDOW

3 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY

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

WIDTH

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CASEMENT DESIGN PR

A. LYNN MILLER, P.E.

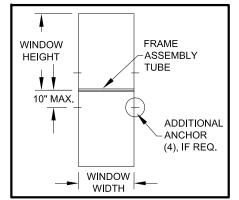
Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly T
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							Desi	gn Pressure	e (psf) for Wi	ndows Atta	ched to a V	ertical Fram	e Assembly	Tube						-
					,e.~					Windov	v Width				T					
		unde	er 23"			25-15/16"		, T	27-3/4"			30"			33-1/2"		3:	5"	3	37"
		Anchoi	r Group		A	Anchor Grou	р	A	Anchor Grou	р	A	Anchor Grou	р	A	nchor Grou	р	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
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:

TABLE 6:

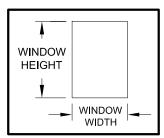
				De	esign Press	sure (psf) for	r Windows	Attached to	a <u>Horizon</u> t	tal Frame A	ssembly T	ube		
							W	/indow Wid	th					
-		under 23"	25-15/16"	27-3/4"	30"		33-1/2"			35"	_		37"	
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	А	nchor Grou	ıp	А	nchor Grou	ıp	А	nchor Grou	ıp
		All	All	All	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
Vinc	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.

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

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 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 +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 +90/-116.7 +90/-107.8 76" +90/-130 +90/-130 +90/-130 +90/-130 +90/-124.1 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.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0303.04

Expiration Date: 04/11/2028

By: Manuel Peres Miami-Dade Product Control

IO CHANGES.	GLAZING TYPE	NO 8 IN I SII
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CASEMENT CA-740

DESIGN PRESSURES

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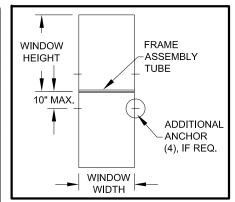
esign Pressure	(psf) for Windows	Attached to a	Vertical Frame	Assembly Tube

											Design	Pressure	(psf) for Wir	ndows Attac	ched to a <u>V</u>	ertical Fran	ne Assemb	ly Tube									
										0.01.01				Windov	v Width									1.00			
			unde	r 23"			25-15/16"			27-3/4"			30)"		7	33-	1/2"			35	5"			37	7"	
			Ancho	Group		Α	nchor Grou	р	Α	nchor Grou	р		Anchor	Group			Anchor	r 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
T	ınder 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	esign Press	ure (psf) fo	r Windows A	Attached to	a <u>Horizon</u>	tal Frame A	ssembly T	ube		
							W	indow Wid	th					
		under 23"	25-15/16"	27-3/4"	30"		33-1/2"			35"			37"	
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Α	nchor Grou	p	A	nchor Grou	р	А	nchor Grou	р
		All	All	All	All	Α	В	C&D	Α	В	C & D	Α	В	C&D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90
	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Height	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
문	50-5/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
No	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

FRAME -ASSEMBLY 10" MAX. TUBE WINDOW HEIGHT WINDOW ___ ADDITIONAL - ANCHOR WIDTH (4), IF REQ.

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

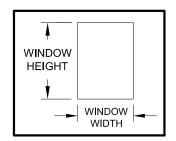
1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

TABLE 11: Design Pressure (psf) for Single Windows, All Anchor Groups Window Width 27-3/4" 30" 33-1/2" 35" 37" under 23" 25-15/16" +90/-130 +90/-130 +90/-130 +90/-130 +90/-130 +90/-130 +90/-130 under 23" +90/-130 25-15/16" +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 +90/-130 48" +90/-130 +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 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 +90/-130 +90/-130 +90/-130 +90/-130 +90/-130 +90/-130 76" +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.



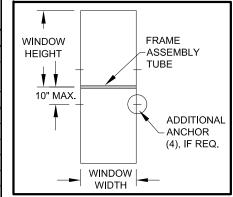
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

TΑ	BL	<u>E</u> 1	12:

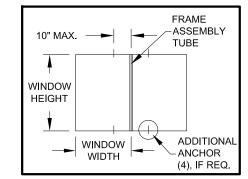
T											Design	Pressure	(psf) for Wir	ndows Attac	hed to a <u>V</u>	ertical Fran	ne Assemb	ly Tube									
Г														Window	Width												
			unde	er 23"			25-15/16"			27-3/4'			3	O"			33-1	1/2"			3	5"			3	7"	
L	Anchor Group A B C D				Α	Anchor Grou	ıp	А	nchor Grou	ıp		Ancho	r Group			Anchor	Group			Ancho	Group			Ancho	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
leig	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
N/	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
indc	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 13:

				De	esign Press	ure (psf) fo	r Windows /	Attached to	a <u>Horizon</u>	tal Frame A	ssembly T	ube		
	r)						W	indow Wid	th					
		under 23"	25-15/16"	27-3/4"	30"	6	33-1/2"			35"			37"	
L		Anchor Group	Anchor Group	Anchor Group	Anchor Group	A	anchor Grou	р	Д	nchor Grou	р	А	nchor Grou	р
		All	All	All	All	Α	В	C&D	Α	В	C & D	Α	В	C & D
- 7	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
Window	60"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Vinc	63"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
>	72"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	76"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
	84"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90						



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



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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0303.04
Expiration Date: 04/11/2028
By: Manuel Product Control

NGES.		G TYPE	1 & SM		D-CA/40-Livi L
NO CHANGES.		ER GLAZIN	ETAILS - LN	Sheet: Drd	<u> </u>
03/01/23	Date: 08/08/12	SSURES PI	VINDOW DI	Scale: Si	2
J ROSOWSKI 03/01/23	Drown By: J ROSOWSKI 08/08/12	DESIGN PRESSURES PER GLAZING TYPE	Title: CASEMENT WINDOW DETAILS - LM & SM	Series/Model:	CA-7-40
		1070 TECHNOLOGY DON'E	N. VENICE, FL 34275 (941) 480–1600		REGISTRATION #29296
111111	XI HOV	Y LYN		The state of the s	

A. LYNN MILLER, P.E.

NOTES

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

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" 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 +70/-90 +70/-90 +70/-90 38-3/8" +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 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 +70/-88.5 +70/-81.5 +60/-69.4 +60/-67.6 72" +70/-90 +70/-90 +60/-70 +60/-63.3 76" +70/-90 +70/-90 +70/-86.3 +70/-76.7 +60/-67.2 +60/-65.2

+70/-81.3

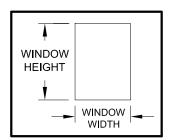
+60/-70

+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.

TABLE 15:

84"

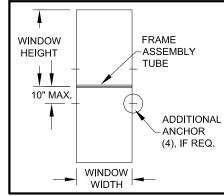
+70/-90

+70/-90

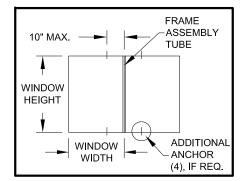
										Design	Pressure	(psf) for Wi	ndows Atta	ched to a <u>V</u>	ertical Frai	me Assemb	oly Tube								
													Windov	v Width											
			unde	er 23"			25-15/16"	L.		27-3/4"			3	0"			33-	1/2"			35"			37"	
L			Ancho	r Group		А	nchor Grou	ıp	Α	nchor Grou	р		Ancho	r Group		11	Ancho	r Group		P	Anchor Grou	ıp qı	A	Anchor Grou	ıp
		Α	В	С	D	Α	В	C & D	Α	В	C&D	Α	В	С	D	Α	В	С	D	Α	В	C & D	Α	В	C&D
	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
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
leigl	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
indc	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
3	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:

	- 4				Design P	ressure (ps	f) for Windo	ows Attache	ed to a <u>Horiz</u>	ontal Frame	Assembly T	ube		
								Window	Width					
		under 23"	25-15/16"	27-3/4"	30"		33-1/2"		1	35"			37"	
		Anchor Group	Anchor Group	Anchor Group	Anchor Group	Д	nchor Grou	р	,	Anchor Group)	A	Anchor Grou	0
		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/-89.8	+70/-90	+70/-90
yok	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
>	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.

03/01/23 08/08/12 DESIGN PRESSURES WINDOW J ROSOWSKI ROSOWSKI CASEMENT CA-740 NO 58705 STATE OF ONAL ENTIN A. LYNN MILLER, P.E. P.E.# 58705

PRODUCT REVISED

By: Manuel Peres

NOA-No.

CHANGES

9

as complying with the Florida Building Code

Expiration Date: 04/11/2028

Miami-Dade Product Control

23-0303.04

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DETAILS

GLAZING

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MD-CA740-LM

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1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

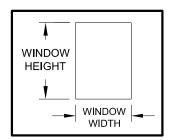
TABLE 17:	
	Design Pressure (psf) for Single Windows, All Anchor Gr

			Design Pre	essure (psf) fo	or Single Wind	dows, All Anc	hor Groups	
					Window Widt	n		
		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
Window	60"	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
Nin	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/-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		

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.



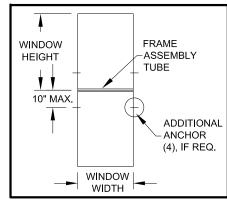
SEE SHEETS 1 & 4 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

TABLE 18:

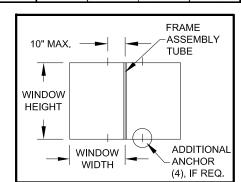
											Design Pres	sure (psf) f	or Windows	Attached	to a <u>Vertica</u>	<u>l</u> Frame As	sembly Tul	be								
													W	indow Wid	th	<u></u>										
			unde	r 23"			25-15/16"	1		27-3/4"			30)"			33-	1/2"			35"			37	7"	
L			Ancho	r Group		А	nchor Grou	ıp	Α	nchor Grou	ıp		Anchor	Group			Ancho	r Group		Д	Anchor Grou	ıp		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
þ	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
leig	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
W.	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
indc	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:

				De	esign Press	sure (psf) fo	r Windows A	Attached to	a <u>Horizon</u>	tal Frame A	ssembly T	ube		
[W	indow Wid	th					
-		under 23"	25-15/16"	27-3/4"	30"		33-1/2"		1 1 1	35"			37"	
Į		Anchor Group	Anchor Group	Anchor Group	Anchor Group	А	anchor Grou	р	Þ	Anchor Grou	р	А	nchor Grou	р
		All	All	All	All	Α	В	C & D	Α	В	C&D	Α	В	C&D
	under 23"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	-70/-87.6	+70/-90	+70/-90	+70/-83.8	+70/-90	+70/-90	+70/-79.2	+70/-90
	25-15/16"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-87.6	+70/-90	+70/-90
	38-3/8"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
Height	48"	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90	+70/-90
무	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
No	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 NOA-No. 23-0303.04

Expiration Date: 04/11/2028

By: Manuel Peres Miami-Dade Product Control

CHANGES.

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MD-CA740-LM

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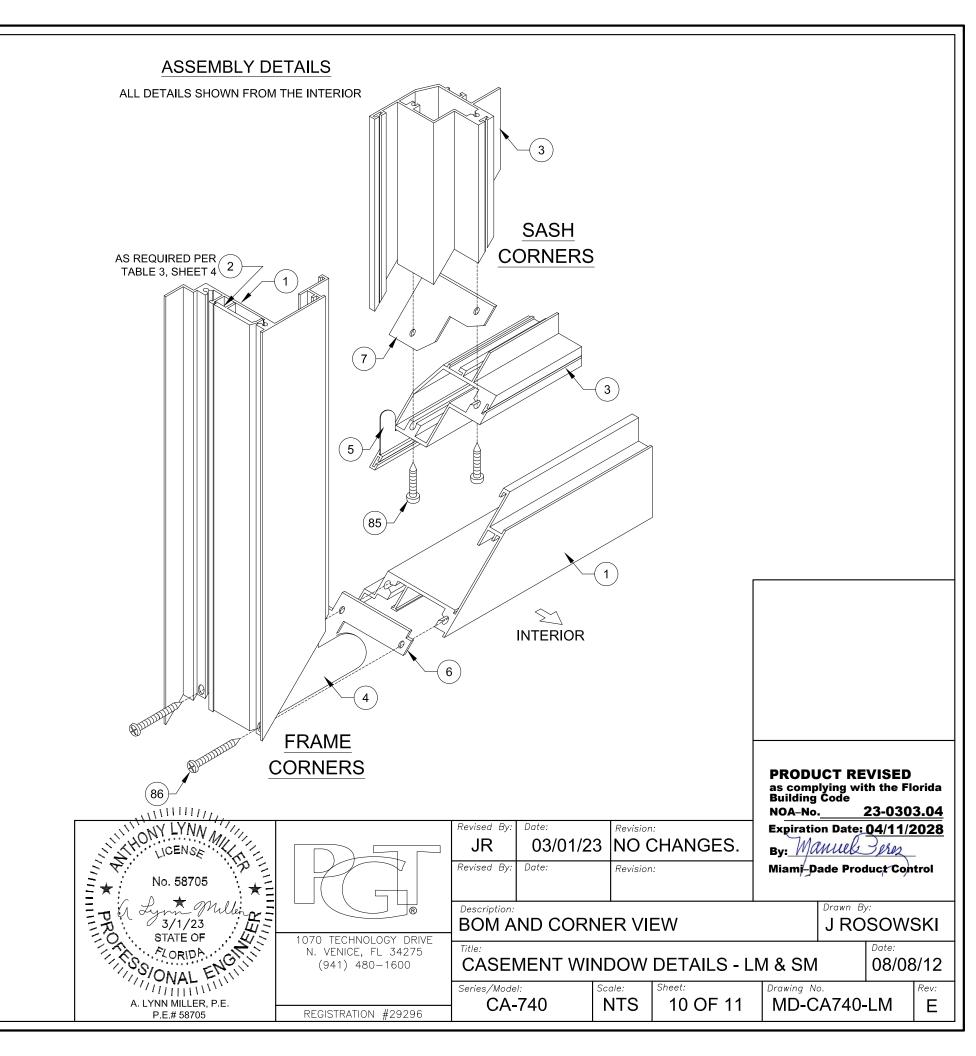
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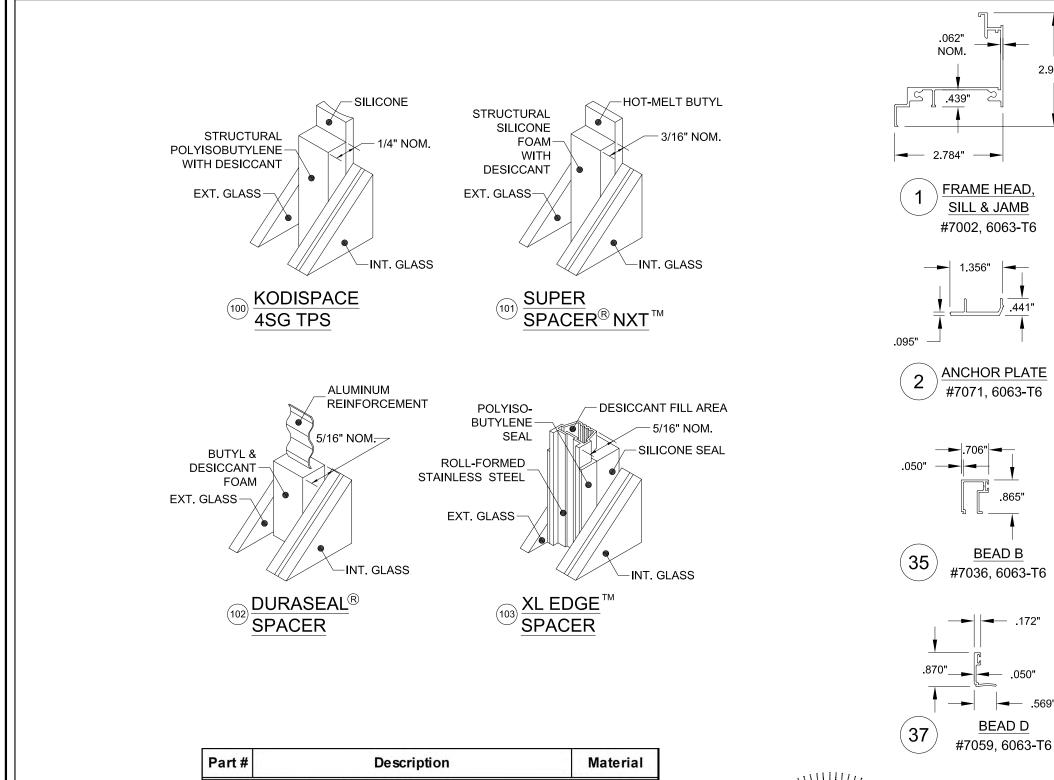
GLAZING

CASEMENT WINDOW DETAILS 03/01/23 DESIGN PRESSURES NTS J ROSOWSKI ROSOWSKI CA-740 A. LYNN MILLER, P.E.

1) SEE SHEET 4 FOR ADDITIONAL SAMPLE CONFIGURATIONS.

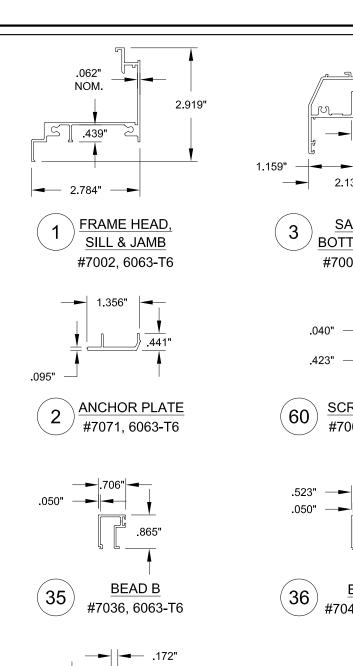
tem	Dwg.#	Description	Material
1	7002	Main Frame Head, Sill & Jamb	6063-T6 Alum
2	7071	Anchor Plate	6063-T6 Alum
3	7003	Sash Top, Bottom & Side Rail	6063-T6 Alun
4	7008	Frame Corner Key	Steel
5	7009	Sash Corner Key	Steel
6	7078	Frame Gasket	Vinyl Foam
7	7072	Sash Corner Gasket	Vinyl Foam
8	7070	Bulb 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		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 Alur
36	7042	Lami Bead C	6063-T6 Alur
37	7059	Lami Bead D	6063-T6 Alur
38	1224	Vinyl Bulb Wstp (Thick)	Flex PVC 7
39	1225	Vinyl Bulb Wstp (Thin)	Flex PVC 7
50	7.000	Dow 791, 899 or 983 Backbedding	Silicone
60	7006	Screen Frame	3105-H14 Alu
61	7040	Screen Corner Key	Polypropoler
62		Screen Cloth	Fiberglass
63	1635	Screen Spline	EM. PVC
64	320	Screen Spring	Stainless Ste
70	134	Add-on Flange	6063-T6 Alur
71	7004	Frame Assy Tube	6063-T6 Alur
80		#8-32 x 1/2" Ph. Pn. Mach. Scr TYPE B	Stainless Ste
81	1157	#8 x 1/2" Ph. Pn. SMS	Stainless Ste
82		#8 x 5/8" Fl. Ph. SMS	Stainless Ste
83		#8 x 7/8" Fl. Ph. SMS	Stainless Ste
84		#8 x 1" Fl. Ph. TEK	Stainless Ste
85		#8 x 1" Quad Pn SMS	Stainless Ste
86		#8 X 1-1/2" Quad Pn SMS	Stainless Ste
87		#10 x 1/2" Ph. Pn./ TEK	Stainless Ste
89		#10-24 x 9/16" Ph. Pn. TYPE F	Stainless Ste
90		#12 x 1" Ph. Pn. TEK	Stainless Ste

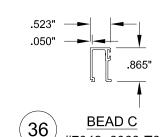


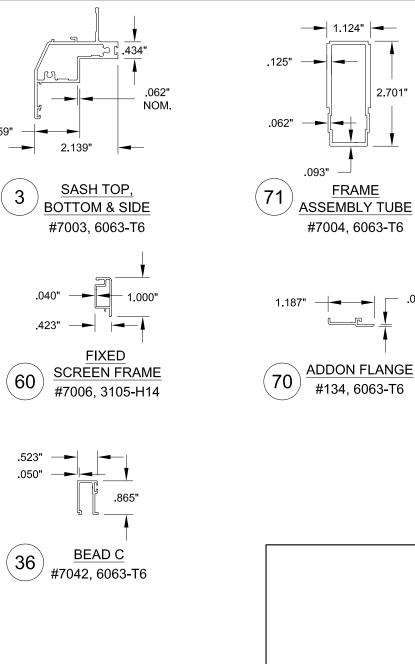


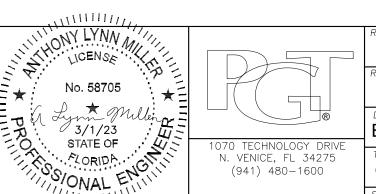
Description	Material
Kommerling 4SG TPS Spacer System	0 11:
Quanex Super Spacer nXT with Hot Melt Butyl	See this Sheet for
Quanex Duraseal Spacer	Materials
Cardinal XL Edge Spacer	Materiale
	Kommerling 4SG TPS Spacer System Quanex Super Spacer nXT with Hot Melt Butyl Quanex Duraseal Spacer

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970









P.E.# 58705

REGISTRATION #29296

Revised By: Revision: 03/01/23 NO CHANGES. JR Revised By:

23-0303.04 NOA-No. Expiration Date: 04/11/2028 By: Manuel Perez

as complying with the Florida Building Code

Miami-Dade Product Control

Drawn By:

PRODUCT REVISED

EXTRUSIONS & SPACERS

J ROSOWSKI

08/08/12

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CASEMENT WINDOW DETAILS - LM & SM

Series/Model: CA-740

NTS 11 OF 11 Drawing No. MD-CA740-LM