

PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Custom Window Systems, Inc. 1900 SW 44th Avenue Ocala, FL 34474

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 "7400 Flange Frame" Outswing Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **CWS-1221**, titled "Series: 7400 Aluminum Casement Window-Impact Flange Frame", sheets 1 through 7 of 7, dated 12/18/23, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E., on 12/18/23 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, 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 #24-0116.04 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.

Help A. M. br 02/01/2024

The submitted documentation was reviewed by Helmy a. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

NOA No. 24-0116.11 Expiration Date: 03/04/2029

Approval Date: 02/01/2024

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. 08-1020.08)
- Drawing No. **L3200-0801**, titled "Series: 3200 Outswing Impact Casement Window", sheets 1 through 7 of 7, dated 07/27/08, with revision **F** dated 08/10/20, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No. 20-0814.07)

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 FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of a series 3200 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-10570, dated 02/08/19, signed and sealed by Idalmis Ortega, P.E. (Submitted under NOA No.19-0227.06)

- 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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of a series 3200 outswing aluminum casement window, X configuration, w/5/16" ann. lami glass w/PVB laminate by DuPont, Test Reports No. **HETI-08-2099A**, **HETI-08-2102A**, **HETI-08-2097A**, **HETI-08-2103A** and **HETI-08-2131A**, all dated 07/10/08, signed and sealed by Candido F. Font, P.E.

(Submitted under NOA No. 08-1020.08)

- 3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94 along with marked-up drawings and installation diagram of a series 3200 outswing aluminum casement window, X configuration, w/5/16" ann. lami glass w/PVB laminate by DuPont, Test Reports No. HETI-08-2099B, HETI-08-2100, HETI-08-2101, HETI-08-2102B, HETI-08-2097B, HETI-08-2103B, HETI-08-2104, HETI-08-2105, HETI-08-2106, HETI-08-2125, and HETI-08-2131B, all dated 07/10/08, signed and sealed by Candido F. Font, P.E. (Submitted under NOA No. 08-1020.08)

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 24-0116.11 Expiration Date: 03/04/2029 Approval Date: 02/01/2024

Custom Window Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), dated 03/01/19, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.

(Submitted under NOA No.19-0227.06)

D. **OUALITY ASSURANCE**

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

E. MATERIAL CERTIFICATIONS

- Notice of Acceptance No. 18-0725.11 issued to Kuraray America, Inc. for their "Kuraray SentryGlas® XtraTM (SGXTM) Clear Glass Interlayer" dated 05/23/19, expiring on 05/23/24.
- 2. 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.
- 3. Notice of Acceptance No. 20-0622.01 issued to Eastman Chemical Company (MA) for their "Saflex PVB Clear and Color Glass Interlayers" dated 08/06/20, expiring on 05/21/21.

F. STATEMENTS

- 1. Statement letter of conformance to **FBC** 7th **Edition (2020)**, dated August 3, 2020, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No.20-0814.07)
- Testing Proposal issued by the Product Control Section, dated December 12, 2018, signed by Manuel Perez, P.E.
 (Submitted under NOA No.19-0227.06)
- 3. Laboratory compliance letter for Test Reports No.'s HETI-08-2099A, HETI-08-2102A, HETI-08-2097A, HETI-08-2103A, HETI-08-2131A, HETI-08-2099B, HETI-08-2100, HETI-08-2101, HETI-08-2102A, HETI-08-2102B, HETI-08-2097B, HETI-08-2103B, HETI-08-2104, HETI-08-2105, HETI-08-2106, HETI-08-2125 and HETI-08-2131B, all dated 07/10/08, all issued by Hurricane Engineering & Testing, Inc., signed and sealed by Candido F. Font, P.E.

(Submitted under NOA No. 08-1020.08)

G. OTHERS

1. Notice of Acceptance No. 19-0227.06 issued to Lawson Industries, Inc. for their Series "3200" Outswing Aluminum Casement Window – L.M.I., approved on 04/04/19 and expiring on 03/04/24.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor NOA No. 24-0116.11

Expiration Date: 03/04/2029 Approval Date: 02/01/2024

Custom Window Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA #23-1010.05

A. **DRAWINGS**

1. Drawing No. L3200-0801, titled "Series: 3200 Outswing Impact Casement Window", sheets 1 through 7 of 7, dated 07/27/08, with revision G dated 09/29/23, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.

B. TESTS

None 1.

CALCULATIONS C.

None. 1.

QUALITY ASSURANCE D.

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

MATERIAL CERTIFICATIONS E.

- 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.
- Notice of Acceptance No. 20-0915.22 issued to Kuraray America, Inc. for their 2. "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 11/19/20, expiring on 07/08/24.
- Notice of Acceptance No. 21-0216.01 issued to Eastman Chemical Company (MA) 3. for their "Saflex PVB Interlayers - Clear and Colored for Glass" dated 04/29/21. expiring on 05/21/26.

F. **STATEMENTS**

- Statement letter of conformance, complying with FBC 8th Edition (2023), dated 1. October 4, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
- Statement letter of no financial interest, dated October 4, 2023, issued by the 2. manufacturer, signed and sealed by Thomas J. Sotos, P.E.
- Proposal No. 23-0461R issued by Product Control Section, dated 06/13/23 and revised 3. on 06/16/23, signed by Manuel Perez, P.E.

G. **OTHERS**

Notice of Acceptance No. 20-0814.067 issued to Lawson Industries, Inc. for their 1. Series "3200" Outswing Aluminum Casement Window – L.M.I., approved on 10/15/20 and expiring on 03/04/24.

> Helmy A. Makar, P.E., M.S. **Product Control Section Supervisor**

> > NOA No. 24-0116.11 Expiration Date: 03/04/2029

Approval Date: 02/01/2024

Custom Window Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. **NEW EVIDENCE SUBMITTED**

DRAWINGS A.

Drawing No. CWS-1221, titled "Series: 7400 Aluminum Casement Window-Impact 1. Flange Frame", sheets 1 through 7 of 7, dated 12/18/23, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E., on 12/18/23.

TESTS B.

None 1.

CALCULATIONS C.

1. None.

QUALITY ASSURANCE D.

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

MATERIAL CERTIFICATIONS E.

1. None.

F. **STATEMENTS**

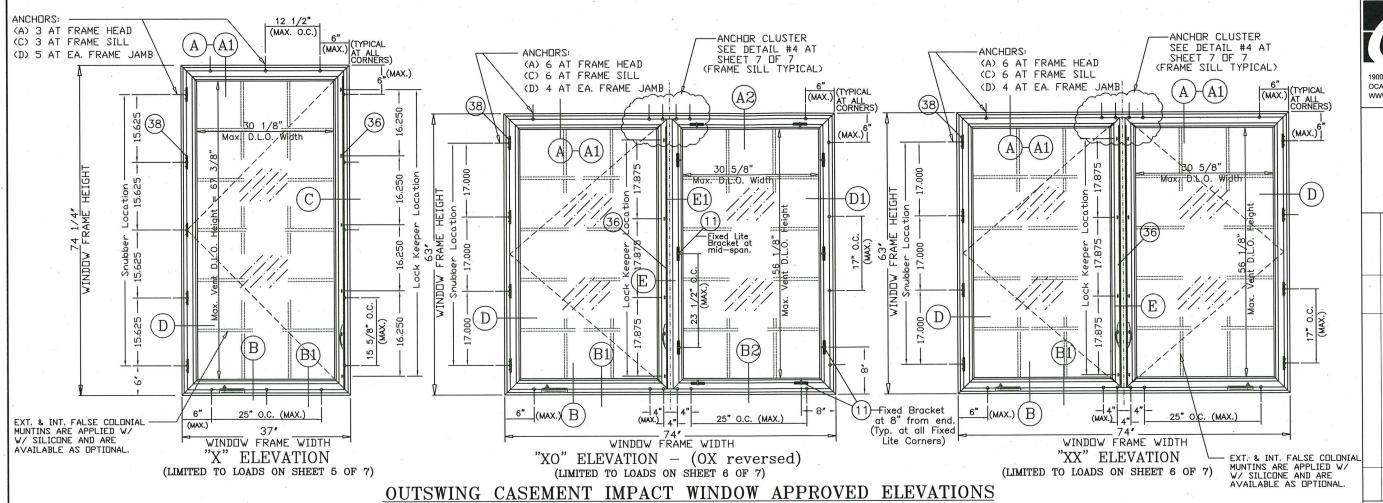
- Statement letter of conformance, complying with FBC 8th Edition (2023), dated 12/18/2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
- Statement letter of no financial interest, dated December 18, 2023, issued by the 2. manufacturer, signed and sealed by Thomas J. Sotos, P.E.
- Private Labeling Agreement document in conformance to Product Control guidelines 3. dated 01/11/24, signed by Kevin E. Pine, Vice President.

G. **OTHERS**

Notice of Acceptance No. 24-0116.04 issued to Lawson Industries, Inc. for their 1. Series "3200" Outswing Aluminum Casement Window – L.M.I., approved on 02/01/24 and expiring on 03/04/29.

> Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 24-0116.11 Expiration Date: 03/04/2029 **Approval Date: 02/01/2024**



<u>General Notes:</u>

- 1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (2020-7th Edition & 2023-8th Edition) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) AND ASTM 1300-09. THIS PRODUCT IS IMPACT RESISTANT AND DOES NOT REQUIRED SHUTTERS.
- 2.) 1X or 2 X WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF F.B.C. & TO BE REVIEWED BY BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ABOVE ARE AS PER TEST UNITS. ON CENTER (O.C.)
 ANCHOR SPACINGS WILL VARY WITH UNIT DIMENSIONS, AND THE NUMBER
 OF ANCHORS REQUIRED, AS SPECIFIED ON THE LOAD TABLES AT SHEETS 5 & 6.
- 4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWING'S ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 5.) SEE SHEET #4 OF 7 FOR BILL OF MATERIALS AND DETAILS.
- 6.) SEE SHEET #5 & 6 OF 7 FOR GLAZING DETAILS & OPTIONS AND CHARTS FOR MAX. DESIGN PRESSURES.
- 7.) WOOD BUCKS IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED AND ANCHORED PRIOR TO WINDOW INSTALLATION (BY OTHERS). (SEE SHEETS #2 & 3 FOR DETAIL & NOTES)
- 8.) MATERIALS INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
- 9.) EXT. & INT. FALSE COLONIAL MUNTINS ARE OPTIONAL & AND ARE APPLIED W/ SILICONE
- 10.) FRAME SILL ANCHOR CLIPS TO BE MEASURED FROM THE INSIDE EDGE OF THE WINDOW FRAME AND TO BE LOCATED WITHIN A +/- 1/2" TOLERANCE.

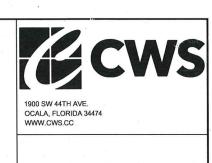
 TOTAL OF ANCHORS REQUIRED AT SILL TO BE THE SAME AS FRAME HEAD.
- 11.) SEE SHEET # 4 OF 10 FOR FLANGE PERIMETER CAULK/ INSTALLATION DETAIL.
- 12.) EXT. & INT. FALSE COLONIAL MUNTINS ARE OPTIONAL & AND ARE APPLIED W/ SILICONE

GENERAL ANCHORS NOTE:

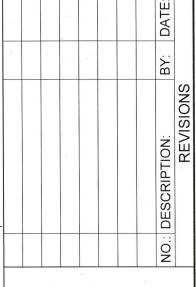
SEE SHEETS 2 & 3 of 7 FOR ANCHOR TYPES, DESCRIPTIONS AND ANCHOR LOAD CAPACITIES.
ALL ANCHORS WITH A MINIMUM OF 1 1/4' EMBEDMENT INTO MASONRY, WOOD OR COMCRETE.

WOOD BUCKS AND METAL STRUCTURES NOT BY CWS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 24-01/6.11
Expiration Date 03/04/2029
By Hell A. M.
Minmi Date Product Control



7400 ALUMINUM CASEMENT WINDOW -IMPACT FLANGE FRAME



NO 55225

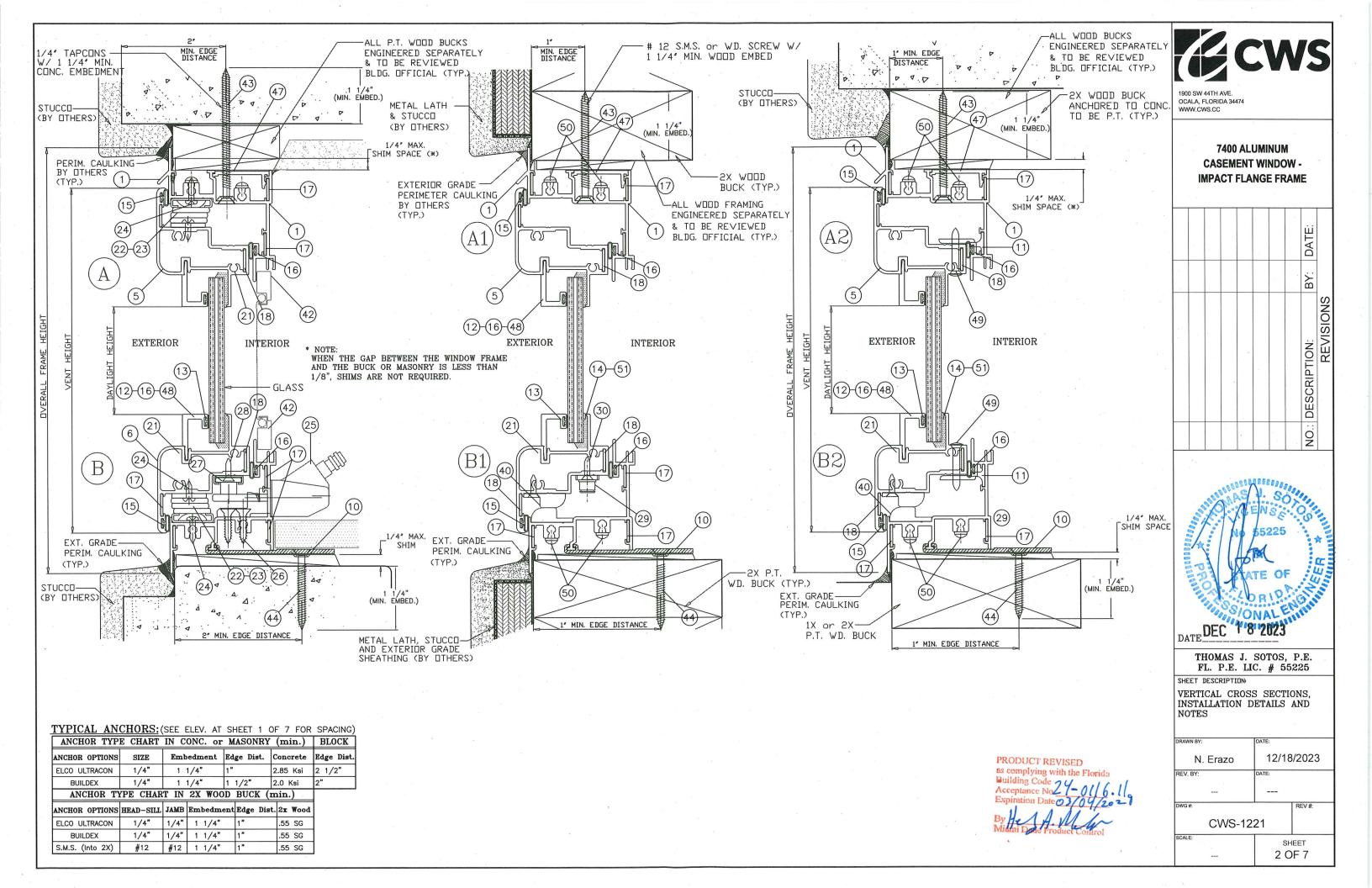
NO FINAL DECIMAL DEC

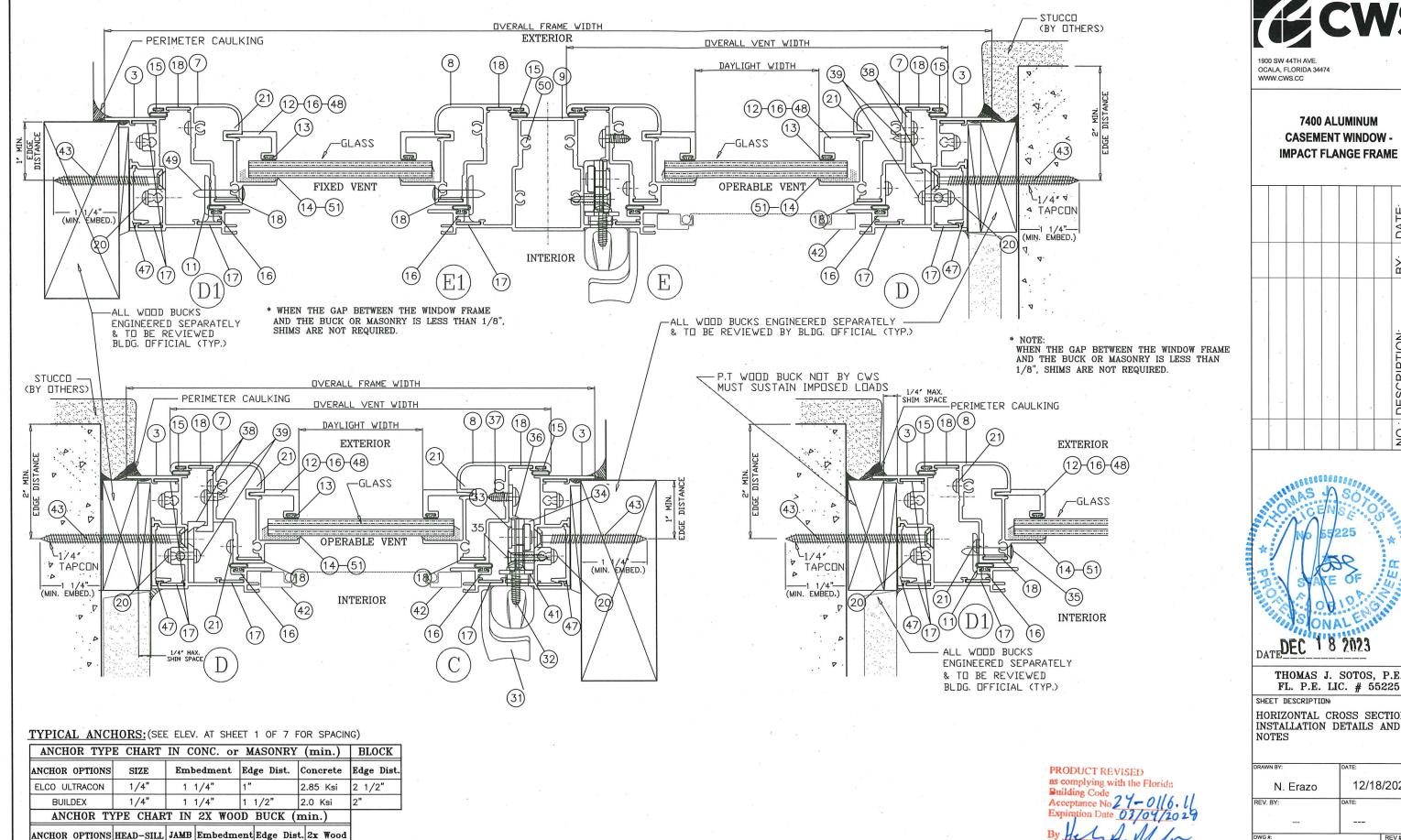
THOMAS J. SOTOS, P.E. FL. P.E. LIC. # 55225

SHEET DESCRIPTION

APPROVED ELEVATIONS
(X, XX, XO, or OX)

DRAWN BY:	DATE:			
N. Erazo	12/18/2023			
REV. BY:	DATE:			
DWG #:		REV#:		
CWS-12	21	-		
SCALE:		IEET IF 7		





ELCO ULTRACON

BUILDEX S.M.S. (Into 2X) 1/4"

1/4"

#12

1/4"

1/4"

1 1/4"

1 1/4"

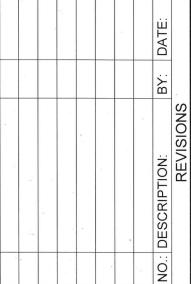
#12 | 1 1/4"

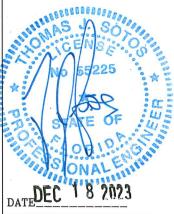
.55 SG

.55 SG

.55 SG

7400 ALUMINUM **CASEMENT WINDOW -**



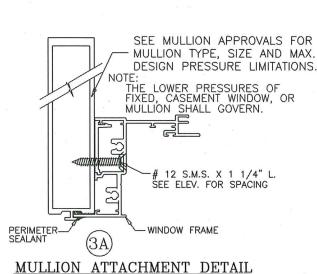


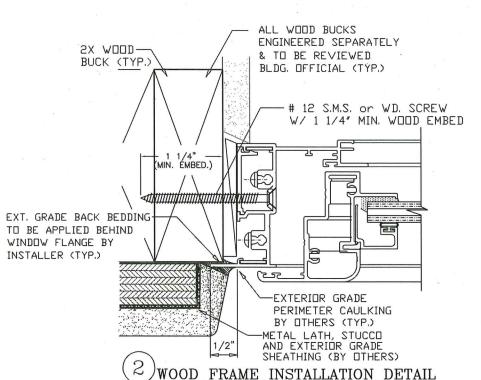
THOMAS J. SOTOS, P.E. FL. P.E. LIC. # 55225

HORIZONTAL CROSS SECTIONS, INSTALLATION DETAILS AND

DRAWN BY:	DATE:				
N. Erazo	12/18/2023				
REV. BY:	DATE:				
	/				
DWG #:	REV#:				
CWS-122	21				
SCALE:	SHEET. 3 OF 7				

CASEMENT WINDOW - BILL OF MATERIALS LIST									
TEM #	DWG. NO.	PART NO.	QUANTITY	DESCRIPTION	REMARKS	IT			
44			SEE ELEVATION	FRAME SILL CLIP SCREWS	#12 X 1 1/2" PH SMS				
45		SM-5504	SEE ELEVATION	FRAME/VENT ASSEMBLY SEALANT	*				
46			SEE ELEVATION	FRAME INSTALLATION CAULKING	EXTERIOR GRADE PERIMETER				
47	L-3007	LII-164	1 X ANCHOR	FRAME HEAD/JAMB SHEAR PLATE	6063-T5 ALUMINUM (3" L.)				
48	L-3009	L-3209	AS REQD.	GLAZING BEAD - 7/16"	6063-T6 ALUMINUM				
49			2 X BRACKET	FIXED VENT ATTACHMENT SCREW	#8 x 1 1/4" FH./PHIL. SDS				
50			8 X POST	IN-POST ASSEMBLY SCREWS	#10 X 1 1/4" PH SMS	18			
51		DC-899	AS REQD.	GLAZING SEALANT - SILICONE	*				
52 a	"TRUSEAL"	AS REQ'D.	AS REQD.	Insulated Glass Swiggle Seal	1/4" air spacer				
52 b	"QUANEX"	AS REQ'D.	AS REQD.	Insulated Glass SuperSpacer	1/4" air spacer	Г			
52 с	"QUANEX"	AS REQ'D.	AS REQD.	Insulated Glass Duraseal	1/4" air spacer				
				* * *		-			





-WINDOW FRAME

EXT. GRADE PERIMETER CAULKING NOT BY

"LAWSON INDUSTRIES", TO BE APPLIED BY

OTHERS (TYP.)

STUCCO OR EXTERIOR FINISH

BY OTHERS (TYP.)

FRAME PERIMETER CAULK DETAIL

EXT. GRADE BACK BEDDING -TO BE APPLIED BEHIND

WINDOW FLANGE BY

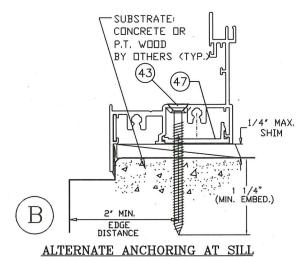
INSTALLER (TYP.)

FACE CAULK-BY OTHERS (TYP.)

> V D

> > V

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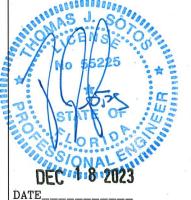
CASEMENT WINDOW - BILL OF MATERIALS LIST								
ΓI	TEM # DWG. NO. PART NO.			QUANTITY	DESCRIPTION	REMARKS		
	1	L-3001 LII-118		, 1	FRAME HEAD	6063-T6 ALUMINUM		
Г	2	L-3002	3002 LII-115 1		FRAME SILL	6063-T6 ALUMINUM		
	3	L-3002	LII-115	2	FRAME JAMB-HINGE SIDE	6063-T6 ALUMINUM		
	4	L-3002	LII-115	2	FRAME JAMB-LATCH SIDE	6063-T6 ALUMINUM		
	5	L-3004	LII-119	2	VENT TOP RAIL	6063-T6 ALUMINUM		
	6	L-3004	LII-119	2	VENT BOTTOM RAIL	6063-T6 ALUMINUM		
3	7	L-3004	LII-119	2	VENT SIDE RAIL-HINGE SIDE	6063-T6 ALUMINUM		
	8	L-3004	LII-119	2	VENT SIDE RAIL-LATCH SIDE	6063-T6 ALUMINUM		
	9	L-3003	LII-116	AS REQ'D.	IN-POST	6063-T6 ALUMINUM		
	10	L-3006	LII-111	1 X ANCHOR	FRAME SILL ANCHOR CLIP	6063-T6 ALUMINUM (3" L.)		
	11	L-3005	LII-113	AS REQ'D.	FIXED LITE MOUNTING BRACKET	6063-T6 ALUMINUM (3" L.)		
7	12	L-3010	L-3210	AS REQD.	GLAZING BEAD - 5/16"	6063-T6 ALUMINUM		
	13	L-7531	L-7531	AS REQD.	GLAZING BEAD BULB VINYL	PVC VINYL		
	14		SM-5731	AS REQD.	GLAZING SEALANT - SILICONE	*		
	15	L-3012		AS REQD.	WEATHERSTRIPPING - FRAME/VENT	PVC VINYL		
Г	16	L-3011	L-3211	AS REQ'D.	GLAZING BEAD 11/16" LAM./INSUL.	6063-T6 ALUMINUM		
Г	17	L-3013		12	CORNER KEY PER FRAME	*		
Г	18	L-3013	g 2	8	CORNER KEY PER VENT	*		
Γ	19	L-3013		4 X POST	CORNER KEY PER IN-POST	*		
Г	20			8	FRAME ASSEMBLY SCREWS	#10 X 1" PH SMS		
Γ	21			8	VENT ASSEMBLY SCREWS	#10 X 1 1/4" PH SMS		
Γ	22			2 X VENT	4 BAR 90° HINGES - STD. & H.D.	*		
Γ	23			2 X VENT	4 BAR 45° HINGES - STD. & H.D.	*		
Г	24	- 7		AS REQD.	HINGE MOUNTING SCREWS	#10 X 1/2" P.H./PHIL. B		
Γ	25	1		1 X VENT	VENT OPERATOR - DUAL or SINGLE	*		
Γ	26		11	4/ OPER.	OPERATOR MOUNTING SCREWS	#10 X 3/4" F.H./PHIL. SDS		
Γ	27			1/ OPER.	STAINLESS STEEL "C" TRACK	*		
Г	28			2/ TRACK	TRACK MOUNTING SCREWS	#8 X 1/2" F.H./PHIL. SDS		
r	29			1/ OPERATOR	STUD BRACKET CONNECTOR	*		
Г	30			2/ BRACKET	STUD BRACKET SCREWS	#8 X 1/2" F.H./PHIL. SDS		
	31			1/ VENT	LOCKING HANDLE	*		
Γ	32			2/ LOCK	LOCK HANDLE MOUNTING SCREWS	#10-32 X 3/8" PH MS		
Γ	33			1/ VENT	LOCKING MULTI-POINT BAR	*		
Γ	34			1 X LOCK POINT	TIE BAR NYLON GUIDES	*		
Γ	35			2 X GUIDE	NYLON GUIDES MOUNTING SCREWS	#8 X 1" PH./PHIL. B		
	36			1/ LOCK	KEEPER (ST. STEEL)	*		
Γ	37			2/ KEEPER	KEEPER MOUNTING SCREWS			
Γ	38	L-3014	8	4	SNUBBER	6063-T5 ALUMINUM		
Γ	39	* 3		2/ SNUBBER	SNUBBER INSTALLATION SCREWS	#8 X 1/2" PH SMS		
Γ	40			1 X VENT	ANTI SAG VENT/SILL RAMP - OPT.	NYLON 6/6		
Γ	41			1. X HANDLE	LOCKING HANDLE BACK PLATE	*		
	42			1 X VENT	5/16" INSECT SCREEN - OPTIONAL	ALUMINUM FRAME		
Г	43			SEE ELEVATION	FRAME INSTALLATION SCREWS	#12 X 2 1/4" PH SMS		

PRODUCT REVISED



7400 ALUMINUM **CASEMENT WINDOW -IMPACT FLANGE FRAME**

			- 8		BY: DATE:	
			>		BY:	
		*	397 20 - 34	5	NO.: DESCRIPTION:	REVISIONS
* .	*				NO.:	



THOMAS J. SOTOS, P.E. FL. P.E. LIC. # 55225

SHEET DESCRIPTION BILL OF MATERIALS, AND INSTALLATION DETAILS

12/18/2023 N. Erazo REV#: CWS-1221

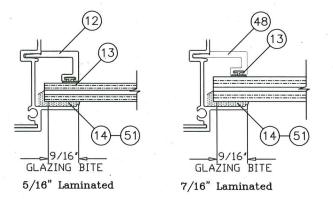
SHEET 4 OF 7

5	/16" LAMINATED GLASS COMPO	SITION - TYPE "A"
ITEM	DESCRIPTION	DETAIL
1	1/8' ANNEALED GLASS	1/8' 5
2	0.090° PVB INTERLAYER TROSIFOL PVB by Kuraray America Inc. or Saflex PVB by Eastman Chemical Co.	.0.090*
3	1/8' ANNEALED GLASS	

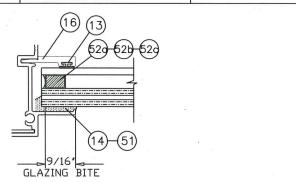
5	/16" LAMINATED GLASS COMP	OSITION - TYPE "B"
ITEM	DESCRIPTION	DETAIL
1	1/8" HEAT-STRENGHTENED GLASS	1/8' [
2	0.090' PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	.0.090'
3	1/8" HEAT-STRENGHTENED GLASS	0.540

5	/16" LAMINATED GLASS COM	POSITION - TYPE "C"
ITEM	DESCRIPTION	DETAIL
1	1/8' HEAT-STRENGHTENED GLASS	7 I 1
2	0.090' INTERLAYER SentryGlass Interlayer by: Kuraray America Inc.	0.090' 1/8' 0.340'
3	1/8' HEAT-STRENGHTENED GLASS	0.340

7	/16" LAMINATED GLASS COMP	OSITION - TYPE "D"
ITEM	DESCRIPTION	DETAIL
1	3/16' ANNEALED GLASS	.0.090')
2	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	187
3	3/16' ANNEALED GLASS	



1	1/16" LAMINATED GLASS COM	POSITION TYPE "E"
ITEM	DESCRIPTION	DETAIL
1	1/8' ANNEALED GLASS	
2	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	1 .1/0
3	1/8' ANNEALED GLASS	090'
4	1/4' INSULATED AIR SPACE	0.340' —
5	1/8' ANNEALED GLASS	-



11/16" Laminated/Insulated

LAMINATED GLASS TYPES & GLAZING DETAILS

NOTE: WINDOWS WITH GLASS TYPES "E" INSTALLED ABOVE 30ft. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED TO COMPLY WITH THE SMALL MISSILE IMPACT RESISTANCE REQUIREMENTS (FBC-2023, Chapter 24 Section 2411.3.3.7).

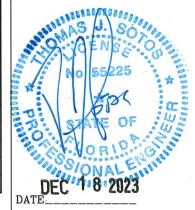
·						Flange Frame Window Glazed with									
		Impact C	asement	t Window	1	Glass T	ype "A"	Glass T	ype "B"	Glass T	ype "C"	Glass T	ype "D"	Glass T	ype "E"
	Configuration: "X"			5/16" Anne	aled Glass	5/16" H.S. (Glass - PVB	5/16" H.S. (Glass -SGP	7/16" Annealed Glass		11/16" Annealed Glass			
	Size	Width	Height	Anch	nors	DP(+)	DP(-)	DP(+)	DP(-)	DP(+)	DP(-)	DP(+)	DP(-)	DP(+)	DP(-)
	Code	(in)	(in)	Head/Sill	Jamb	psf	psf	psf	psf	psf	psf	psf	psf	psf	psf
	12	19.125	26	2	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	13	19.125	38.375	2	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
SIZES	14	19.125	50.625	2	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
<u> </u>	15	19.125	63	2	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	16	19.125	74.25	2	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
<u>}</u> [H32	26.5	26	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	H33	26.5	38.375	3	. 3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	H34	26.5	50.625	3 -	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
COMMODITY	H35	26.5	63	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
Ö [H36	26.5	74.25	.3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
ပ၂	22	37	26	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	23	37 ,	38.375	3	: 3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	24	37	50.625	3	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	25	37	63	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	26	37	74.25	3	5	59.0	59.0	70.0	82.0	= "	-	-		-	-
	2020	24	24	2	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2030	24	36	2	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2040	24	48	. 2	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2050	24	60	2	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
-	2060	24	72	2	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2620	30	24	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
ပ္သ	2630	30	36	3	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
SIZES	2640	30	48	3	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2650	30	60	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
MODULAR	2660	30	72	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
]	2820	32	24	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
러	2830	32	36	3	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
9	2840	32	48	3	4 .	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
≥	2850	32	60	. 3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2860	32	72	. 3	, 5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
Į	3020	36	24	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3030	36	36	3	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3040	36	48	3	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3050	36	60	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3060	36	72	3	5	59.0	59.0	70.0	82.0	-	-		-	-	

PRODUCT REVISED



7400 ALUMINUM CASEMENT WINDOW -IMPACT FLANGE FRAME

8	8		78			BY: DATE:	
		6.00		5		BY:	
						NO.: DESCRIPTION:	REVISIONS
						NO.	



THOMAS J. SOTOS, P.E. FL. P.E. LIC. # 55225

SHEET DESCRIPTION DP LOAD CHARTS, GLASS
TYPES AND GLAZING DETAILS
(X)

ń		
DRAWN BY:	DATE:	
N. Erazo	12/18	3/2023
REV. BY:	DATE:	
:		
DWG #:		REV#:
CWS-12	21	
SCALE:	200	F 7

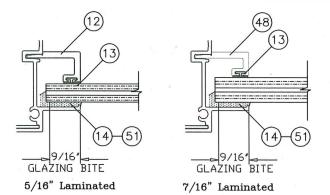
Insulated Spacer Types & Options
52 a) "TrueSeal" Swiggle Seal
52 b) "Quanex" SuperSpacer w/ Isomelt M
52 c) "Quanex" Duraseal

ITEM	DESCRIPTION	DETAIL
1	1/8' ANNEALED GLASS	1/0/16
2	0.090' PVB INTERLAYER TROSIFOL PVB by Kuraray America Inc. or Saflex PVB by Eastman Chemical Co.	0.340*
3	1/8' ANNEALED GLASS	*

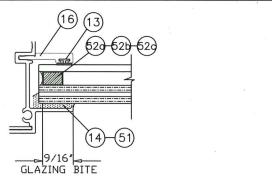
	/16" LAMINATED GLASS COMP	OSITION - TIPE B
ITEM	DESCRIPTION	DETAIL
1	1/8" HEAT-STRENGHTENED GLASS	1/8' ============
S	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	0.340"
3	1/8" HEAT-STRENGHTENED GLASS	0,540

IMPINE	DESCRIPTION	DETAIL
ITEM	DESCRIE 110N	DETAIL
1	1/8' HEAT-STRENGHTENED GLASS	
2	0.090' INTERLAYER SentryGlass Interlayer by: Kuraray America Inc.	0.090' 1/8' 0.340'
3	1/8" HEAT-STRENGHTENED GLASS	0.540 —

7	/16" LAMINATED GLASS COMP	OSITION - TYPE "D"
ITEM	DESCRIPTION	DETAIL
1	3/16' ANNEALED GLASS	.0.090' 1
2	0.090' PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	187
3	3/16' ANNEALED GLASS	'



1	1/16" LAMINATED GLASS COM	POSITION TYPE "E"
ITEM	DESCRIPTION	DETAIL
1	1/8' ANNEALED GLASS	100
2	0.090' PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	1 .1/0
3	1/8' ANNEALED GLASS	1.090'
4	1/4" INSULATED AIR SPACE	0.340*
5	1/8' ANNEALED GLASS	



11/16" Laminated/Insulated

LAMINATED GLASS TYPES & GLAZING DETAILS

	Conf	iguration	: "XX", "	'XO" or "	ОХ"	5/16" Anne	aled Glass	5/16" H.S. C	Glass - PVB	5/16" H.S. C	Glass -SGP	7/16" Anne	aled Glass	11/16" Anne	aled Glass
	Size	Width	Height	Anch	nors	DP(+)	DP(-)	DP(+)	DP(-)	DP(+)	DP(-)	DP(+)	DP(-)	DP(+)	DP(-)
	Code	(in)	(in)	Head/Sill	Jamb	psf	psf	psf	psf	psf	psf	psf	psf	psf	psf
(n	22	37	26	4	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
SIZES	23	37	38.375	4	. 3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
S	24	37	50.625	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	25	37	63	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
COMMODITY	32	53.125	26	4	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
占	33	53.125	38.375	4	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
Σ	34	53.125	50.625	· 4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
돌	35	53.125	63	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
8	D22	74	26	6	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	D23	74	38.375	6	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	D24	74	50.625	6.	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	D25	74	63	6	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	3020	36	24	4	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	3030	36	36	4	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	3040	36	48	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	3050	36	60	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
ပ္သ	4020	48	24	4	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
SIZE	4030	48	36	4	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	4040	48	48	4 .	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
MODULAR	4050	48	60	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
\exists	5020	60	24	. 5	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
ᆸ	5030	60	36	5	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
일	5040	60	48	5	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
2	5050	60	60	5	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	6020	72	. 24	6	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	6030	72	36	6	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	6040	72	48	6	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	6050	72	60	6	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
												*2 2			

Glass Type "B"

Glass Type "A"

Flange Frame Window Glazed with

Glass Type "C"

NOTE: WINDOWS WITH GLASS TYPES "E" INSTALLED ABOVE 30ft. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED TO COMPLY WITH THE SMALL MISSILE IMPACT RESISTANCE REQUIREMENTS (FBC-2023, Chapter 24 Section 2411.3.3.7).

Insulated Spacer Types & Options

Impact Casement Window

52 a) "TrueSeal" Swiggle Seal
52 b) "Quanex" SuperSpacer w/ Isomelt M
52 c) "Quanex" Duraseal

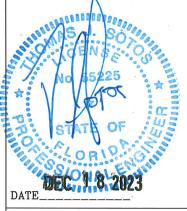


Glass Type "E"

Glass Type "D"

7400 ALUMINUM **CASEMENT WINDOW -**IMPACT FLANGE FRAME

					DATE:	
					BY:	
	16	, , , , , , , , , , , , , , , , , , ,			NO.: DESCRIPTION:	REVISIONS
ĺ						



THOMAS J. SOTOS, P.E. FL. P.E. LIC. # 55225

SHEET DESCRIPTION DP LOAD CHARTS, GLASS TYPES AND GLAZING DETAILS (XX, XO, or OX)

DRAWN BY:	DATE:	
N. Erazo	12/18	3/2023
REV. BY:	DATE:	
DWG #:		REV#:
CWS-12	21	
SCALE:	SH	IEET
	6.0)F 7

