MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

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 "CWS-320 (Fin Frame)" Aluminum Horizontal Rolling Window - N.I.

APPROVAL DOCUMENT: Drawing No. **CWS-1257**, titled "CWS 320 Aluminum Fin Frame Non-Impact Horizontal Rolling Window", sheets 1 through 8 of 8, dated 11/17/23, with revision **B** dated 12/13/25, prepared by the manufacturer, signed and sealed by Thomas J. Sotos, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Medley, Florida, 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. 25-0612.04** 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.

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

MIAMI-DADE COUNTY APPROVED

1/8/26

Custom Window Systems, Inc.

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. 09-0720.07)

2. Drawing No. **CWS-1257**, titled "CWS 320 Aluminum Fin Frame Non-Impact Horizontal Rolling Window", sheets 1 thru 8 of 8, dated 11/17/23, with rev. **A** dated 05/15/25, prepared by manufacturer, and signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 25-0612.04)

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 series SH-7700 aluminum single hung window and a series PW-4000/6000 aluminum fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-23-8049** and **HETI-23-8048**, both dated 07/24/23, signed and sealed by Ram N. Tewari, P.E.
(Submitted under NOA No. 23-1017.09)

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 an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4533**, dated 06/22/05, **FTL-4541**, dated 06/24/05, **FTL-4429**, dated 06/24/05, and **FTL-4413**, dated 06/23/05, all signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-0919.04)

3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4578**, dated 06/24/05, and **FTL-4426**, dated 06/23/05, both signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-0919.04)

4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4553**, dated 06/22/05, **FTL-4547**, dated 06/23/05, **FTL-4588**, dated 06/24/05, **FTL-4594**, dated 06/24/05 and **FTL-4457**, dated 06/24/05, all signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-0919.04)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-1219.02
Expiration Date: February 23, 2031
Approval Date: January 15, 2026

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, dated 08/17/05 and 10/20/10, prepared by manufacturer, both signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 10-1025.03)

2. Glazing complies with **ASTM E1300-04/09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated June 9, 2025, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 25-0612.04)

2. Statement letter of no financial interest, dated June 9, 2025, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 25-0612.04)

3. Statement letter dated June 25, 2025, issued by Custom Window Systems, Inc. (CWS) stating that they have legally purchased all assets of (18) listed NOA's from Lawson Industries, Inc. and requesting that new corresponding NOA's be issued to CWS name; also, that (18) listed Private Label Agreement NOA's between Lawson Industries, Inc. and CWS be rescinded, signed by Kevin Pine, Vice President.
(Submitted under NOA No. 25-0612.04)

4. Statement letter dated June 5, 2025, confirming that Custom Window System, Inc. is a wholly owned subsidiary of Pella Corporation, signed by Chantel Kramme, Secretary Pella Corp.
(Submitted under NOA No. 25-0612.04)

5. Letter from owners of existing NOA, stating that they have sold all assets to the applicant, that they no longer manufacture the product, relinquish their rights to the current NOA and request that it be rescinded, dated June 10, 2025, signed by Mr. Harold Bailey, President, Lawson Industries, Inc.
(Submitted under NOA No. 25-0612.04)

6. Bill of Sales between CWS-SF, LLC (Buyer) and Lawson Industries, Inc. (Seller), dated Nov. 28, 2023, signed by Nicholas Cross (President, CWS) and Harold Bailey (President, Lawson Industries).
(Submitted under NOA No. 25-0612.04)

Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-1219.02
Expiration Date: February 23, 2031
Approval Date: January 15, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

F. STATEMENTS (CONTINUED)

7. FLA Division of Corporation listing of Custom Window System Inc., as active status since 04/11/1986.
(Submitted under NOA No. 25-0612.04)

8. Proposal No. **23-0461R** issued by Product Control Section, dated June 13, 2023, and revised on June 16, 2023, signed by Manuel Perez, P.E.
(Submitted under NOA No. 23-1017.08)

9. Laboratory compliance letter for Test Reports No. **FTL-4533** dated 06/22/05, **FTL-4541** dated 06/24/05, **FTL-4429** dated 06/24/05, **FTL-4413** dated 06/23/05, **FTL-4578** dated 06/24/05, **FTL-4456** dated 06/23/05, **FTL-4553** dated 06/24/05, **FTL-4547** dated 06/23/05, **FTL-4588** dated 06/24/05, **FTL-4594** dated 06/24/05 and **FTL-4457** dated 06/24/05, all issued by Fenestration Testing Laboratory, Inc., signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-0919.04)

G. OTHERS

1. Notice of Acceptance No. **23-1017.09**, issued to Lawson Industries, Inc. for their Series "HS-8600 (Fin Frame)" Aluminum Horizontal Rolling Window – N.I., approved on 11/16/23 and expiring on 02/23/26.

2. Notice of Acceptance No. **24-0116.17**, issued to Custom Window Systems, Inc. for their Series "CWS-320 (Fin Frame)" Aluminum Horizontal Rolling Window – N.I., approved on 02/01/24 and expiring on 02/23/26. **(Private Label NOA already rescinded)**

Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-1219.02
Expiration Date: February 23, 2031
Approval Date: January 15, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **CWS-1257**, titled "CWS 320 Aluminum Fin Frame Non-Impact Horizontal Rolling Window", sheets 1 through 8 of 8, dated 11/17/23, with revision **B** dated 12/13/25, prepared by manufacturer, and signed and sealed by Thomas J. Sotos, 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. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated December 16, 2025, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.

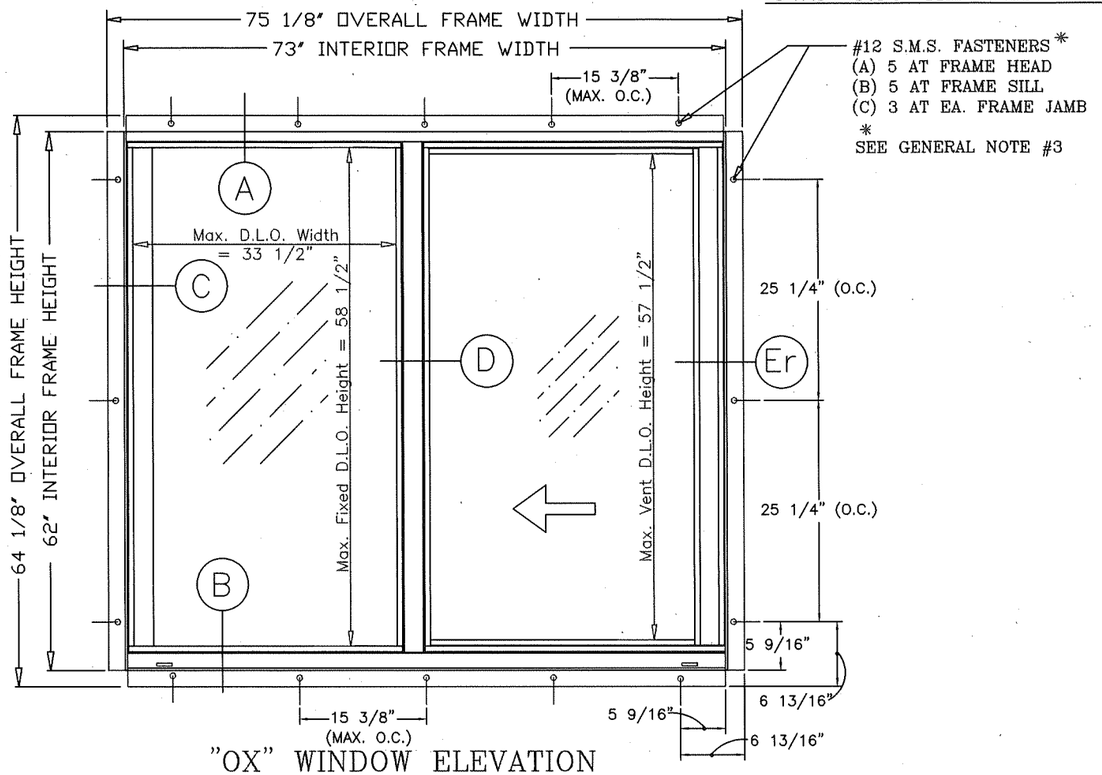
2. Statement letter of no financial interest, dated December 16, 2025, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.

G. OTHERS

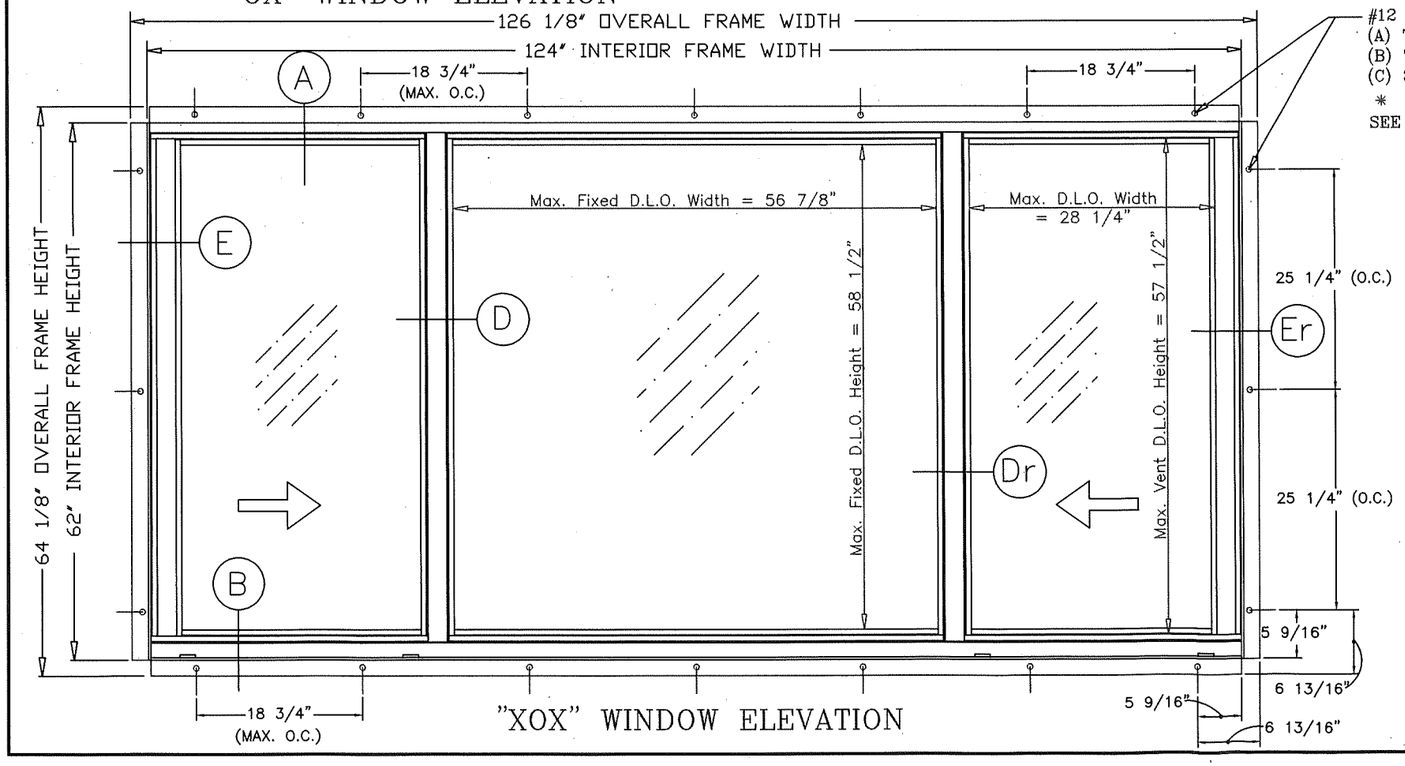
1. Notice of Acceptance No. **25-0612.04**, issued to Custom Window Systems, Inc. for their Series "320 (Fin Frame)" Aluminum Horizontal Rolling Window – N.I., approved on 07/10/25 and expiring on 02/23/26.

Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-1219.02
Expiration Date: February 23, 2031
Approval Date: January 15, 2026

CWS 320 ALUMINUM HORIZONTAL SLIDING WINDOW – FIN FRAME – (NON-IMPACT)



"OX" WINDOW ELEVATION



"XOX" WINDOW ELEVATION

General Notes:

1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (2023-8th Edition) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) AND ASTM 1300-16. THIS PRODUCT IS NOT IMPACT RESISTANT. WINDOWS ARE TO BE PROTECTED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS.

2.) 2 X WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF THE 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.

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.) XO or OX WINDOWS ARE QUALIFIED FOR USE WITH SINGLE GLAZE GLASS TYPES TABULATED HEREIN (SEE SHEET #5).

6.) XOX WINDOWS ARE QUALIFIED FOR USE WITH SINGLE GLAZE GLASS TYPES TABULATED HEREIN (SEE SHEET #6).

7.) XO, OX, XOX WINDOWS ARE QUALIFIED FOR USE WITH DOUBLE GLAZE GLASS TYPES TABULATED HEREIN (SEE SHEET #7).

8.) SEE SHEET 4 FOR LOCK DETAILS & OPTIONS.

9.) SEE SHEET 4 FOR GLAZING DETAILS & OPTIONS. (REFER TO SHEETS 5, 6, & 7 FOR DESIGN PRESSURES.

10.) TEMPERED GLASS MAY BE USED, BUT DESIGN PRESSURES ARE LIMITED TO LOAD TABLES ON SHEETS 5, 6, & 7.

11.) WOOD OPENING SHALL BE PROTECTED WITH AN APPROVED MOISTURE RESISTANT WEATHERBARRIER (BY OTHERS), PRIOR TO WINDOW INSTALLATION. (SEE SHEET #8 FOR DETAIL)

12.) MATERIALS: INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

WINDOWS ARE TO BE PROTECTED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-1219.02
Expiration Date: 02/23/2031
By: Manuel Perez
Miami-Dade Product Control

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

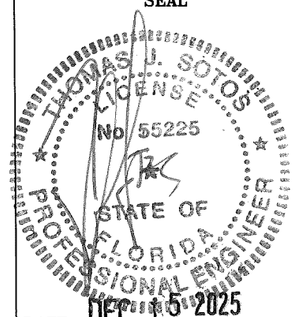
CWS 320 ALUMINUM FIN FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
B	Renews NOA # 22-0612.04	N.E.	12/13/25
A	Revises NOA # 23-1017.09	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

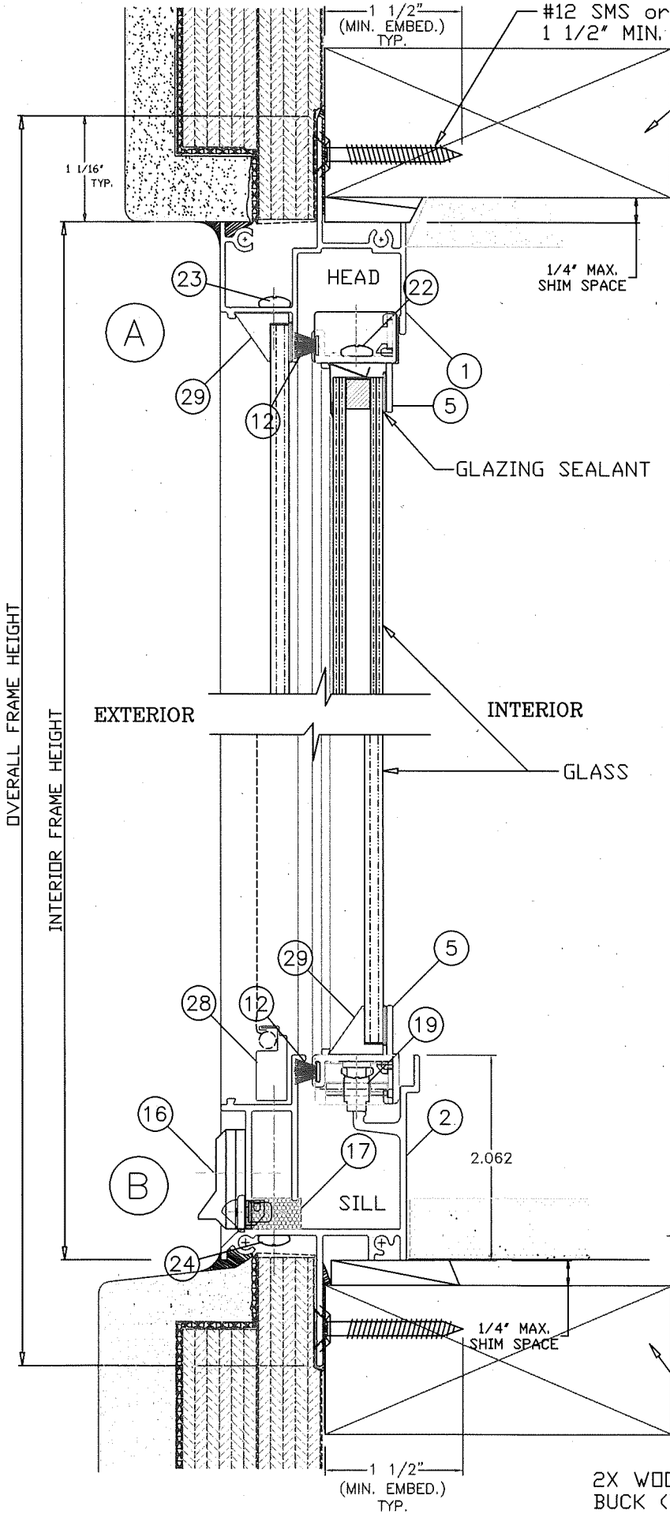
SEAL

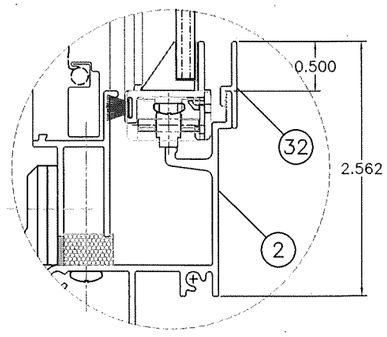


DATE DEC 15 2025

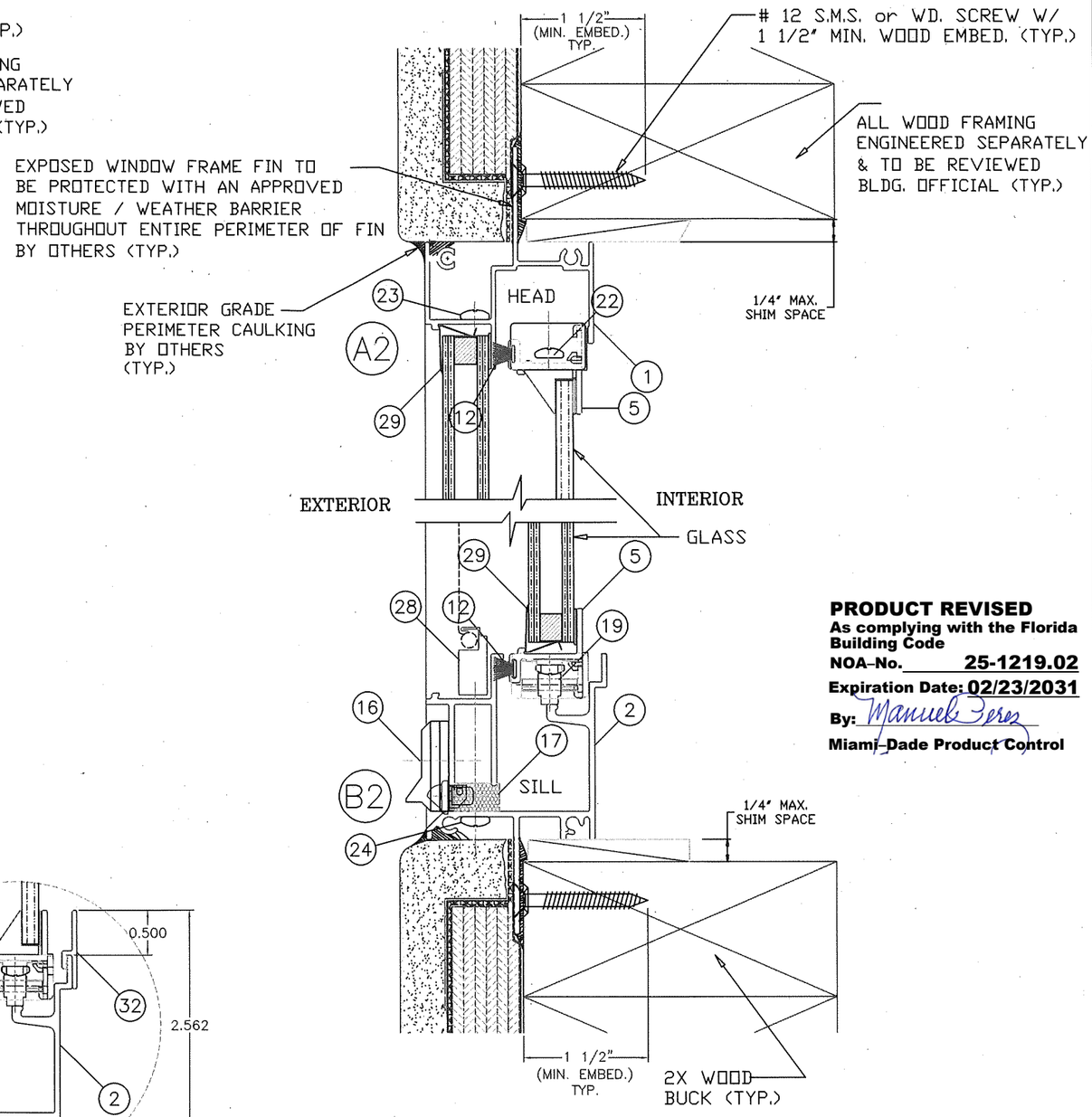
SHEET DESCRIPTION:
APPROVED ELEVATIONS, CONFIGURATIONS AND NOTES

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1257	B
SCALE:	SHEET
AS NOTED	1 OF 8





SILL W/ 1/2" RISER ADAPTER
(FIELD APPLIED W/ CLEAR SILICONE)



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-1219.02
Expiration Date: 02/23/2031
By: Manuel Perez
Miami-Dade Product Control

NOTE:
ALL ANCHORS TO BE #12 SMS OR WD. SCREW WITH A MINIMUM OF 1 1/2" PENETRATION INTO WOOD. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)

* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

CWS 320 ALUMINUM FIN FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

REVISIONS			
NO.:	DESCRIPTION:	BY:	DATE:
B	Renews NOA # 22-0612.04	N.E.	12/13/25
A	Revises NOA # 23-1017.09	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

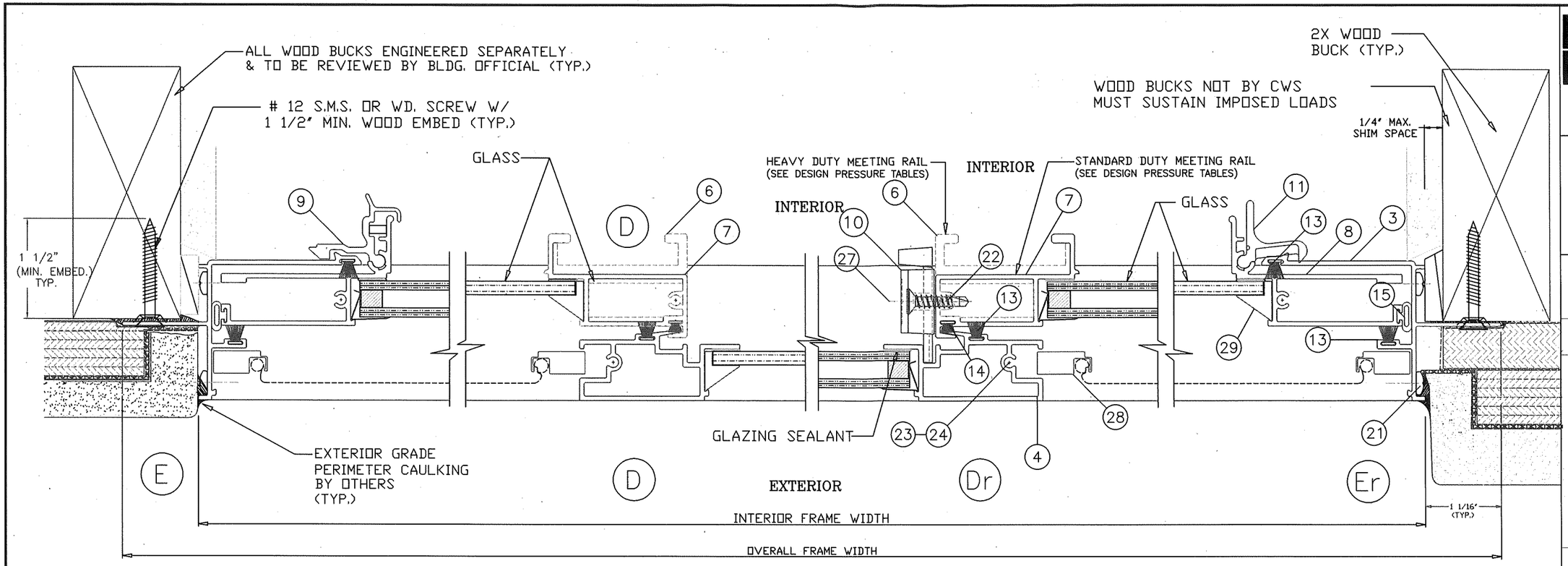
THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

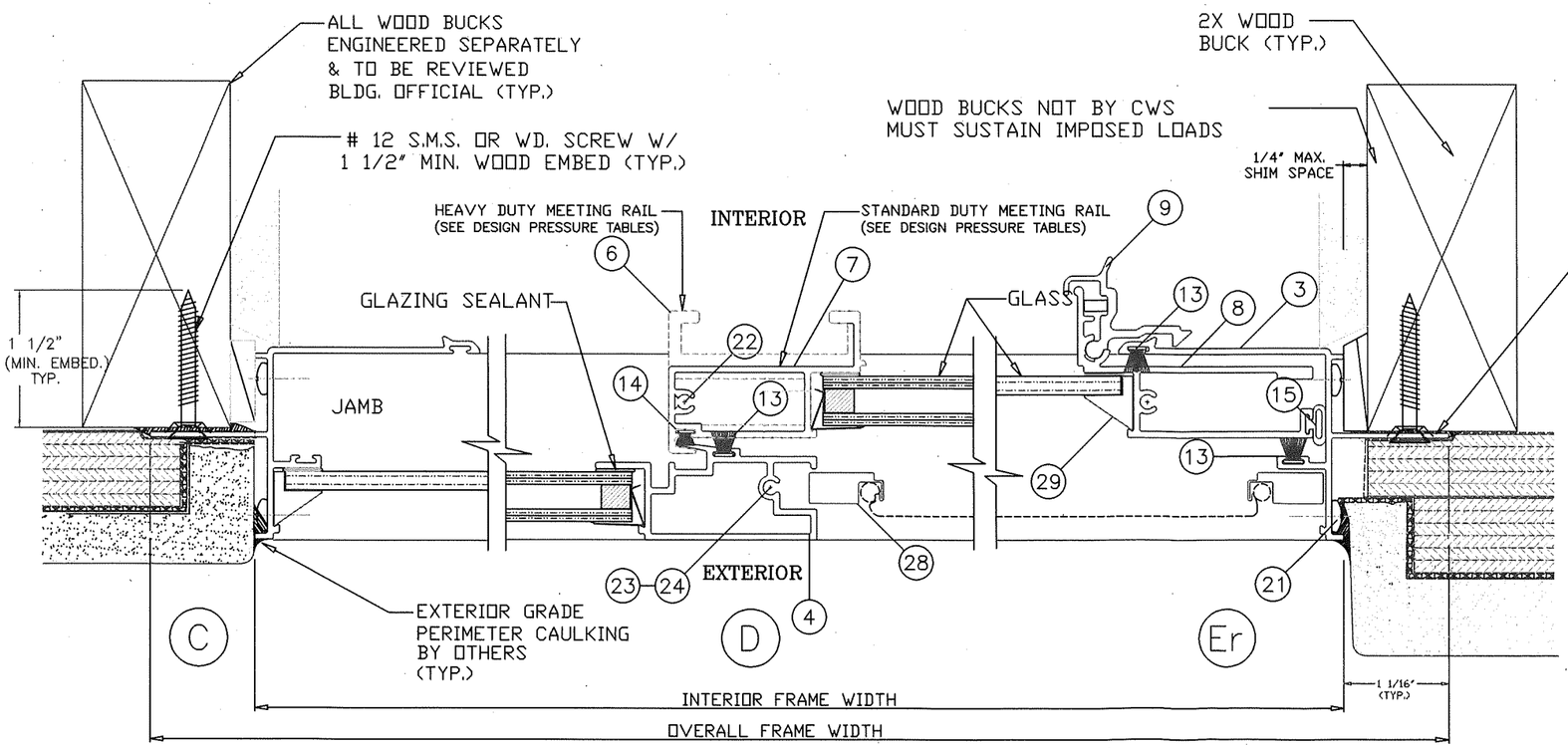
DEC 15 2025

DATE

SHEET DESCRIPTION:
WINDOW VERTICAL CROSS SECTION & DETAILS

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1257	B
SCALE:	SHEET
AS NOTED	2 OF 8





NOTE:
ALL ANCHORS TO BE #12 SMS OR WD. SCREW WITH A MINIMUM OF 1 1/2" PENETRATION INTO WOOD. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)

* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

EXPOSED WINDOW FRAME FIN TO BE PROTECTED WITH AN APPROVED MOISTURE / WEATHER BARRIER THROUGHOUT ENTIRE PERIMETER OF FIN BY OTHERS (TYP.)

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-1219.02
Expiration Date: 02/23/2031
By: Manuel Perez
Miami-Dade Product Control

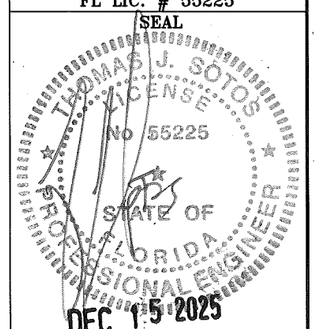
CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

CWS 320 ALUMINUM FIN FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

REVISIONS			
NO.:	DESCRIPTION:	BY:	DATE:
B	Renews NOA # 22-0612.04	N.E.	12/13/25
A	Revises NOA # 23-1017.09	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

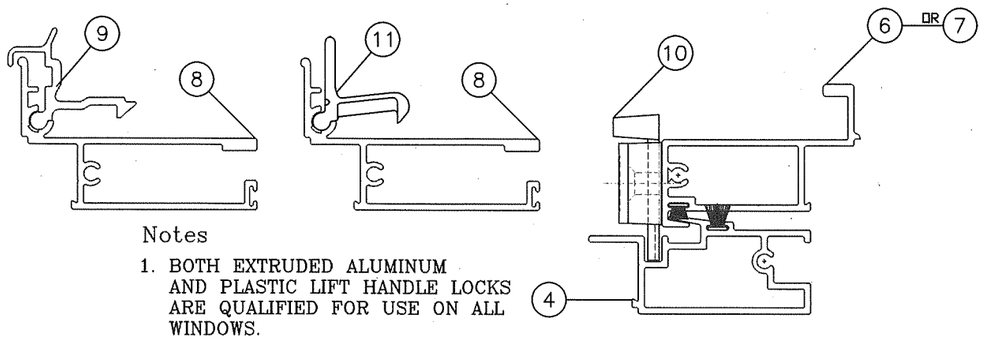
SEAL



DATE_____

SHEET DESCRIPTION:
CROSS SECTIONAL DETAILS FOR STANDARD AND HEAVY DUTY MEETING RAILS

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1257	B
SCALE:	SHEET
AS NOTED	3 OF 8

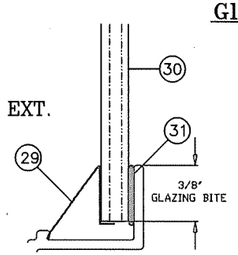


Notes

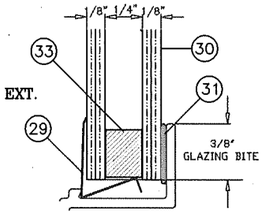
1. BOTH EXTRUDED ALUMINUM AND PLASTIC LIFT HANDLE LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS.
2. THE CAM LOCK IS QUALIFIED FOR USE ON THE 1/8" ANNEALED AND 3/16" ANNEALED WINDOWS ONLY.
3. ONLY TWO (2) LOCKS ARE REQUIRED PER EACH VENT.

LOCK (LATCH AND SWEEP) OPTIONS

Glazing Detail & Description



MONOLITHIC GLASS – SINGLE GLAZE
ANNEALED OR TEMPERED
1/8", 3/16" OR 1/4" THICK
(SEE DESIGN PRESSURE TABLES)



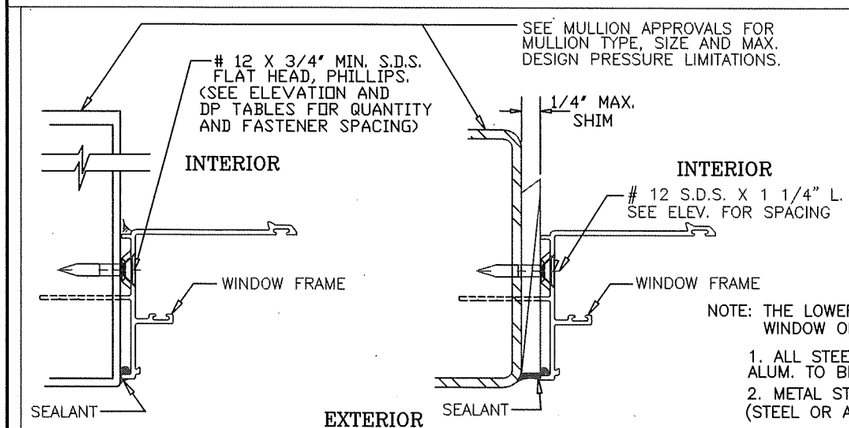
1/2" OVERALL INSULATED GLASS
CONSIST OF:
1/8" ANNEALED OR TEMPERED LITE
+ 1/4" AIR SPACE
+ 1/8" ANNEALED OR TEMPERED LITE
(SEE DESIGN PRESSURE TABLES)

(31) Glazing Sealant Types & Options

1) Schnee–Morehead 5731
2) Schnee–Morehead 5732
3) GE SCS 1000 Clear Silcone
4) Dow Corning Clear Silcone

(33) Insulated Spacer Types & Options

33a) TrueSeal Swiggle Seal
33b) Quanex SuperSpacer w/ Isomelt M
33c) Quanex Duraseal



MULLION & METAL STRUCTURE ATTACHMENT DETAIL

NOTE: THE LOWER PRESSURES OF WINDOW OR MULL SHALL GOVERN

1. ALL STEEL IN CONTACT WITH ALUM. TO BE PAINTED OR PLATED.
2. METAL STRUCTURES: (STEEL OR ALUM. 1/8" MIN. THICK)
   A) STEEL : Fy = 36 KSI MIN.
   B) ALUMINUM : 6063–T5 MIN.

CWS 320 FIN FRAME WINDOW – BILL OF MATERIALS

ITEM #	PART #	DRWG. #	REQD.	DESCRIPTION	REMARKS
1	L-7603	*	1	FRAME HEAD	6063-T6 ALUMINUM
2	L-8601	*	1	FRAME SILL	6063-T5 ALUMINUM
3	L-8602	*	2	FRAME JAMB	6063-T6 ALUMINUM
4	L-7504	*	1 x vent	FIXED MEETING RAIL	6005-T6 ALUMINUM
5	L-7508	*	2 x vent	VENT TOP / BOTTOM RAIL	6063-T5 ALUMINUM
6	L-7506	*	1 x vent	VENT INTERLOCK RAIL-H.D.	6005-T6 ALUMINUM
7	L-7505	*	1 x vent	VENT INTERLOCK STD. DUTY	6005-T5 ALUMINUM
8	L-7507	*	1 x vent	VENT LATCH JAMB	6005-T6 ALUMINUM
9	*	LII-012	2 x vent	VENT EXTRUDED LOCK	6063-T5 ALUMINUM
10	*	*	2 x vent	VENT CAM LOCK	DIE-CAST CAM LOCK
11	*	HC-057	2 x vent	VENT PLASTIC LOCK	SPRING LOADED
12	*	SCHLEGEL	AS REQD.	Top/Bott. Rail Weatherstrip	.187" X .280" FIN SEAL
13	*	ULTRAFAB	AS REQD.	FXD. RAIL WEATHERSTRIP	.187" X 250" FIN SEAL
14	*	ULTRAFAB	AS REQD.	VENT LOCK WEATHERSTRIP	.187" X 150" PILE
15	*	*	AS REQ'D.	VENT JAMB WEATHERSTRIP	3/8" DIA. BULB
16	*	*	2	WEEP HOLE COVER W/ FLAP	1 1/2" wide x 1/4" hi weep
17	*	*	2	SILL OPEN CELL FOAM PAD	1/2"x3/8"x 1 3/4" LONG
18	*	*	2	SILL/JAMB JOINT GASKET	1/16" CLOSED CELL FOAM
19	L-763	HC-032	2	VENT ROLLER ASSEMBLY	2 X EA. VENT BOTTOM RAIL
20	L-7524	*	6	VENT FACE GUIDE	3 PER VENT HOR. RAIL
21	*	*	8	FRAME ASSEMBLY SCREWS	# 8 X 5/8" P.H. PHIL.
22	*	*	4 x vent	VENT ASSEMBLY SCREWS	# 8 X 1" P.H. PHILLIPS
23	*	*	1 X RAIL	MTG. RAIL SCREW @ HEAD	# 8 X 1" P.H. PHILLIPS
24	*	*	1 X RAIL	MTG. RAIL SCREW @ SILL	# 8 X 2" P.H. PHILLIPS
25	*	*	7	FRAME INSTALL'N SCREW	#12 X 1 3/4" F.H. / PHI.
26	*	*	6	FRAME INSTALL'N SCREW	#12 X 1 1/2" F.H. / PHI.
27	*	*	2 X LOCK	CAM LOCK ATTC'NT SCREW	#8 X 7/8" F.H. / PHI.
28	*	*	1 x vent	INSECT SCREEN	*
29	*	*	AS REQD.	GLAZING BEAD	ROLL FORMED ALUMINUM
30	*	*	AS REQ'D.	GLASS	See Detail @ sheet 4 of 8
31	*	*	AS REQ'D	GLAZING SILICONE	See Detail @ sheet 4 of 8
32	L-8503	LII-132	1	FRAME SILL 1/2" RISER	6063-T6 ALUMINUM
33 a	TruSeal	*	AS REQ'D	Swiggle Seal Spacer	Black -1/4" air space
33 b	Quanex	*	AS REQ'D	SuperSpacer w/ Isomelt M	Black -1/4" air space
33 c	Quanex	*	AS REQ'D	Duraseal Spacer	Black -1/4" air space
34	SEALANT	*	AS REQ'D	ACRYL-R JOINT SEALANT	SM-5504/5591

PRODUCT REVISED
As complying with the Florida Building Code
NOA–No. 25-1219.02
Expiration Date: 02/23/2031
By: Manuel Perez
Miami–Dade Product Control

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

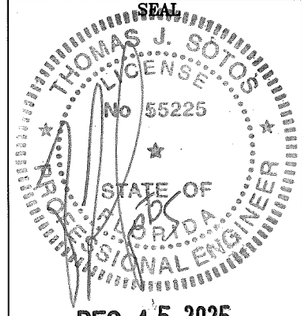
CWS 320 ALUMINUM FIN FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
B	Renews NOA # 22-0612.04	N.E.	12/13/25
A	Revises NOA # 23-1017.09	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL



DATE DEC 15 2025

SHEET DESCRIPTION:
BILL OF MATERIALS, GLAZING DETAILS & LOCK OPTIONS

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #: CWS-1257	REV #: B
SCALE: AS NOTED	SHEET 4 OF 8

8600 Non Impact Horizontal Sliding Window
Test # FTL 4413 - 1/4" Annealed Fin Frame (XO or OX)
w/ HEAVY DUTY MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	56.7	100.0	3	2
37.125	25.125	56.7	100.0	5	3
49.125	25.125	56.7	100.0	7	3
61.125	25.125	56.7	100.0	9	3
73.125	25.125	56.7	100.0	11	3
25.125	37.125	56.7	100.0	4	3
37.125	37.125	56.7	100.0	6	4
49.125	37.125	56.7	100.0	9	5
61.125	37.125	56.7	100.0	11	5
73.125	37.125	56.7	90.8	13	5
25.125	49.125	56.7	100.0	5	4
37.125	49.125	56.7	100.0	8	6
49.125	49.125	56.7	100.0	11	7
61.125	49.125	56.7	78.3	11	6
73.125	49.125	56.7	66.3	11	6
25.125	61.125	56.7	100.0	6	5
37.125	61.125	56.7	95.6	9	7
49.125	61.125	56.7	76.7	10	7
61.125	61.125	56.7	62.8	10	6
73.125	61.125	50.9	50.9	11	6
27.625	27.125	56.7	100.0	4	3
27.625	39.5	56.7	100.0	5	4
27.625	51.75	56.7	100.0	6	5
27.625	59.125	56.7	100.0	7	5
27.625	64.125	56.7	100.0	7	6
38.125	27.125	56.7	100.0	5	3
38.125	39.5	56.7	100.0	7	4
38.125	51.75	56.7	100.0	8	6
38.125	59.125	56.7	97.3	9	7
38.125	64.125	56.7	88.4	9	7
54.25	27.125	56.7	100.0	8	3
54.25	39.5	56.7	100.0	10	5
54.25	51.75	56.7	88.1	11	7
54.25	59.125	56.7	74.4	10	7
54.25	64.125	56.7	67.1	10	7
75.125	27.125	56.7	100.0	12	3
75.125	39.5	56.7	82.3	13	5
75.125	51.75	56.7	60.5	11	6
75.125	59.125	51.7	51.7	11	6
75.125	64.125	47.3	47.3	11	6

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4413 - 1/4" Annealed Fin Frame (XO or OX)
w/ HEAVY DUTY MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	73.3	100.0	3	2
37.125	25.125	73.3	100.0	5	3
49.125	25.125	73.3	100.0	7	3
61.125	25.125	73.3	100.0	9	3
73.125	25.125	73.3	100.0	11	3
25.125	37.125	73.3	100.0	4	3
37.125	37.125	73.3	100.0	6	4
49.125	37.125	73.3	100.0	9	5
61.125	37.125	73.3	100.0	11	5
73.125	37.125	73.3	90.8	13	5
25.125	49.125	73.3	100.0	5	4
37.125	49.125	73.3	100.0	8	6
49.125	49.125	73.3	100.0	11	7
61.125	49.125	73.3	78.3	11	6
73.125	49.125	66.3	66.3	11	6
25.125	61.125	73.3	100.0	6	5
37.125	61.125	73.3	95.6	9	7
49.125	61.125	73.3	76.7	10	7
61.125	61.125	62.8	62.8	10	6
73.125	61.125	50.9	50.9	11	6
27.625	27.125	73.3	100.0	4	3
27.625	39.5	73.3	100.0	5	4
27.625	51.75	73.3	100.0	6	5
27.625	59.125	73.3	100.0	7	5
27.625	64.125	73.3	100.0	7	6
38.125	27.125	73.3	100.0	5	3
38.125	39.5	73.3	100.0	7	4
38.125	51.75	73.3	100.0	8	6
38.125	59.125	73.3	97.3	9	7
38.125	64.125	73.3	88.4	9	7
54.25	27.125	73.3	100.0	8	3
54.25	39.5	73.3	100.0	10	5
54.25	51.75	73.3	88.1	11	7
54.25	59.125	73.3	74.4	10	7
54.25	64.125	67.1	67.1	10	7
75.125	27.125	73.3	100.0	12	3
75.125	39.5	73.3	82.3	13	5
75.125	51.75	60.5	60.5	11	6
75.125	59.125	51.7	51.7	11	6
75.125	64.125	47.3	47.3	11	6

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4456 - 3/16" Annealed Fin Frame (XO or OX)
w/ HEAVY DUTY MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	56.7	100.0	3	2
37.125	25.125	56.7	100.0	5	3
49.125	25.125	56.7	100.0	7	3
61.125	25.125	56.7	100.0	9	3
73.125	25.125	56.7	100.0	11	3
25.125	37.125	56.7	100.0	4	3
37.125	37.125	56.7	100.0	6	4
49.125	37.125	56.7	99.8	9	5
61.125	37.125	56.7	81.3	9	4
73.125	37.125	56.7	70.2	10	4
25.125	49.125	56.7	100.0	5	4
37.125	49.125	56.7	100.0	8	6
49.125	49.125	56.7	76.5	8	5
61.125	49.125	56.7	58.1	8	5
73.125	49.125	51.5	51.5	9	4
25.125	61.125	56.7	100.0	6	5
37.125	61.125	56.7	86.0	8	6
49.125	61.125	56.7	64.9	9	6
61.125	61.125	44.9	44.9	8	5
73.125	61.125	39.7	39.7	8	5
27.625	27.125	56.7	100.0	4	3
27.625	39.5	56.7	100.0	5	4
27.625	51.75	56.7	100.0	6	5
27.625	59.125	56.7	100.0	7	5
27.625	64.125	56.7	100.0	7	6
38.125	27.125	56.7	100.0	5	3
38.125	39.5	56.7	100.0	7	4
38.125	51.75	56.7	100.0	8	6
38.125	59.125	56.7	87.6	8	6
38.125	64.125	56.7	79.5	8	6
54.25	27.125	56.7	100.0	8	3
54.25	39.5	56.7	83.6	9	4
54.25	51.75	56.7	61.6	8	5
54.25	59.125	54.9	54.9	8	5
54.25	64.125	51.5	51.5	8	5
75.125	27.125	56.7	90.6	11	3
75.125	39.5	56.7	63.8	10	4
75.125	51.75	48.1	48.1	9	4
75.125	59.125	40.8	40.8	9	5
75.125	64.125	37.2	37.2	8	5

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4456 - 3/16" Annealed Fin Frame (XO or OX)
w/ HEAVY DUTY MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	73.3	100.0	3	2
37.125	25.125	73.3	100.0	5	3
49.125	25.125	73.3	100.0	7	3
61.125	25.125	73.3	100.0	9	3
73.125	25.125	73.3	100.0	11	3
25.125	37.125	73.3	100.0	4	3
37.125	37.125	73.3	100.0	6	4
49.125	37.125	73.3	99.8	9	5
61.125	37.125	73.3	81.3	9	4
73.125	37.125	70.2	70.2	10	4
25.125	49.125	73.3	100.0	5	4
37.125	49.125	73.3	100.0	8	6
49.125	49.125	73.3	76.5	8	5
61.125	49.125	58.1	58.1	8	5
73.125	49.125	51.5	51.5	9	4
25.125	61.125	73.3	100.0	6	5
37.125	61.125	73.3	86.0	8	6
49.125	61.125	64.9	64.9	9	6
61.125	61.125	44.9	44.9	8	5
73.125	61.125	39.7	39.7	8	5
27.625	27.125	73.3	100.0	4	3
27.625	39.5	73.3	100.0	5	4
27.625	51.75	73.3	100.0	6	5
27.625	59.125	73.3	100.0	7	5
27.625	64.125	73.3	100.0	7	6
38.125	27.125	73.3	100.0	5	3
38.125	39.5	73.3	100.0	7	4
38.125	51.75	73.3	100.0	8	6
38.125	59.125	73.3	87.6	8	6
38.125	64.125	73.3	79.5	8	6
54.25	27.125	73.3	100.0	8	3
54.25	39.5	73.3	83.6	9	4
54.25	51.75	61.6	61.6	8	5
54.25	59.125	54.9	54.9	8	5
54.25	64.125	51.5	51.5	8	5
75.125	27.125	73.3	90.6	11	3
75.125	39.5	63.8	63.8	10	4
75.125	51.75	48.1	48.1	9	4
75.125	59.125	40.8	40.8	9	5
75.125	64.125	37.2	37.2	8	5

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4553 - 3/16" Annealed Fin Frame (XO or OX)
w/ STANDARD MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	56.7	100.0	3	2
37.125	25.125	56.7	100.0	5	3
49.125	25.125	56.7	100.0	7	3
61.125	25.125	56.7	100.0	9	3
73.125	25.125	56.7	100.0	11	3
25.125	37.125	56.7	100.0	4	3
37.125	37.125	56.7	100.0	6	4
49.125	37.125	56.7	95.4	8	5
61.125	37.125	56.7	81.3	9	4
73.125	37.125	56.7	70.2	10	4
25.125	49.125	56.7	100.0	5	4
37.125	49.125	56.7	78.7	6	5
49.125	49.125	56.7	64.3	7	4
61.125	49.125	56.3	56.3	8	4
73.125	49.125	51.5	51.5	9	4
27.625	27.125	56.7	100.0	4	3
27.625	39.5	56.7	100.0	5	4
27.625	51.75	56.7	94.0	6	4
38.125	27.125	56.7	100.0	5	3
38.125	39.5	56.7	100.0	7	4
38.125	51.75	56.7	72.3	6	5
54.25	27.125	56.7	100.0	8	3
54.25	39.5	56.7	82.7	9	4
54.25	51.75	56.2	56.2	7	5
75.125	27.125	56.7	90.6	11	3
75.125	39.5	56.7	63.8	10	4
75.125	51.75	47.0	47.0	9	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4553 - 3/16" Annealed Fin Frame (XO or OX)
w/ STANDARD MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	73.3	100.0	3	2
37.125	25.125	73.3	100.0	5	3
49.125	25.125	73.3	100.0	7	3
61.125	25.125	73.3	100.0	9	3
73.125	25.125	73.3	100.0	11	3
25.125	37.125	73.3	100.0	4	3
37.125	37.125	73.3	100.0	6	4
49.125	37.125	73.3	95.4	8	5
61.125	37.125	73.3	81.3	9	4
73.125	37.125	70.2	70.2	10	4
25.125	49.125	73.3	100.0	5	4
37.125	49.125	73.3	78.7	6	5
49.125	49.125	64.3	64.3	7	4
61.125	49.125	56.3	56.3	8	4
73.125	49.125	51.5	51.5	9	4
27.625	27.125	73.3	100.0	4	3
27.625	39.5	73.3	100.0	5	4
27.625	51.75	73.3	94.0	6	4
38.125	27.125	73.3	100.0	5	3
38.125	39.5	73.3	100.0	7	4
38.125	51.75	72.3	72.3	6	5
54.25	27.125	73.3	100.0	8	3
54.25	39.5	73.3	82.7	9	4
54.25	51.75	56.2	56.2	7	5
75.125	27.125	73.3	90.6	11	3
75.125	39.5	63.8	63.8	10	4
75.125	51.75	47.0	47.0	9	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4547 - 1/8" Annealed Fin Frame (XO or OX)
w/ STANDARD MEETING RAIL & STANDARD SILL

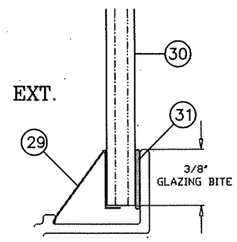
Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	56.7	100.0	3	2
37.125	25.125	56.7	100.0	5	3
49.125	25.125	56.7	86.2	6	2
61.125	25.125	56.7	68.2	6	2
73.125	25.125	53.6	53.6	6	2
25.125	37.125	56.7	100.0	4	3
37.125	37.125	56.7	69.9	5	3
49.125	37.125	55.0	55.0	5	3
61.125	37.125	49.7	49.7	6	3
73.125	37.125	43.3	43.3	6	3
25.125	49.125	56.7	90.0	5	4
37.125	49.125	55.9	55.9	5	3
49.125	49.125	37.7	37.7	5	3
61.125	49.125	35.8	35.8	5	3
73.125	49.125	32.8	32.8	6	3
27.625	27.125	56.7	100.0	4	3
27.625	39.5	56.7	100.0	5	4
27.625	51.75	56.7	78.2	5	4
38.125	27.125	56.7	98.5	5	3
38.125	39.5	56.7	62.1	5	3
38.125	51.75	51.1	51.1	5	3
54.25	27.125	56.7	74.3	6	2
54.25	39.5	49.0	49.0	6	3
54.25	51.75	33.6	33.6	5	3
75.125	27.125	50.5	50.5	6	2
75.125	39.5	40.1	40.1	6	3
75.125	51.75	30.3	30.3	6	3

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4547 - 1/8" Annealed Fin Frame (XO or OX)
w/ STANDARD MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	73.3	100.0	3	2
37.125	25.125	73.3	100.0	5	3
49.125	25.125	73.3	86.2	6	2
61.125	25.125	68.2	68.2	6	2
73.125	25.125	53.6	53.6	6	2
25.125	37.125	73.3	100.0	4	3
37.125	37.125	69.9	69.9	5	3
49.125	37.125	55.0	55.0	5	3
61.125	37.125	49.7	49.7	6	3
73.125	37.125	43.3	43.3	6	3
25.125	49.125	73.3	90.0	5	4
37.125	49.125	55.9	55.9	5	3
49.125	49.125	37.7	37.7	5	3
61.125	49.125	35.8	35.8	5	3
73.125	49.125	32.8	32.8	6	3
27.625	27.125	73.3	100.0	4	3
27.625	39.5	73.3	100.0	5	4
27.625	51.75	73.3	78.2	5	4
38.125	27.125	73.3	98.5	5	3
38.125	39.5	62.1	62.1	5	3
38.125	51.75	51.1	51.1	5	3
54.25	27.125	73.3	74.3	6	2
54.25	39.5	49.0	49.0	6	3
54.25	51.75	33.6	33.6	5	3
75.125	27.125	50.5	50.5	6	2
75.125	39.5	40.1	40.1	6	3
75.125	51.75	30.3	30.3	6	3

Pressure Limited to Negative 100psf.



MONOLITHIC GLASS

ANNEALED OR TEMPERED(*)
1/8", 3/16" OR 1/4" THICK

(SEE DESIGN PRESSURE TABLES)

GLAZING DETAIL

* Tempered glass marked in compliance with CPSC 16 CFR Part 1201" or "ANSI Z97.1-2015.

Note:

1. WINDOW WIDTHS & HEIGHTS ARE THE OVERALL EXTERIOR FRAME DIMENSIONS.

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-1219.02
Expiration Date: 02/23/2031
By: Manuel Perez
Miami-Dade Product Control

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

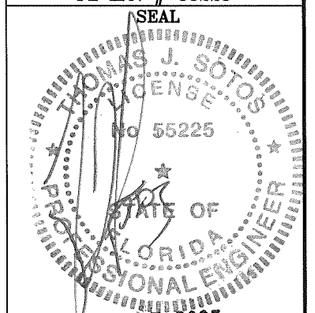
CWS 320 ALUMINUM FIN FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
B	Renews NOA # 22-0612.04	N.E.	12/13/25
A	Revises NOA # 23-1017.09	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL



DATE DEC 15 2025

SHEET DESCRIPTION:
GLASS LOAD CHARTS & MONOLITHIC GLAZING DETAIL (XO or OX)

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1257	B
SCALE:	SHEET
AS NOTED	5 OF 8

8600 Non Impact Horizontal Sliding Window
Test # FTL 4429 - 1/4" Annealed Fin Frame (XOX)
w/ HEAVY DUTY MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	56.7	100.0	11	2
85.125	25.125	56.7	100.0	13	3
97.125	25.125	56.7	100.0	15	3
109.125	25.125	56.7	100.0	17	3
121.125	25.125	56.7	100.0	19	3
73.125	37.125	56.7	94.2	15	4
85.125	37.125	56.7	79.2	14	4
97.125	37.125	56.7	68.1	14	3
109.125	37.125	56.7	58.9	14	3
121.125	37.125	52.1	52.1	14	3
73.125	49.125	56.7	68.1	14	4
85.125	49.125	56.7	59.5	14	4
97.125	49.125	54.4	54.4	15	4
109.125	49.125	48.6	48.6	15	4
121.125	49.125	43.9	43.9	15	4
73.125	61.125	52.1	52.1	13	4
85.125	61.125	56.7	63.3	18	5
97.125	61.125	43.8	43.8	14	4
109.125	61.125	40.7	40.7	15	4
121.125	61.125	38.4	38.4	16	4
54.25	27.125	56.7	100.0	9	2
54.25	39.5	56.7	100.0	12	4
54.25	51.75	56.7	81.3	13	4
54.25	59.125	56.7	73.4	13	4
54.25	64.125	56.7	69.0	13	4
75.125	27.125	56.7	100.0	12	3
75.125	39.5	56.7	82.4	14	4
75.125	51.75	56.7	60.6	13	4
75.125	59.125	51.8	51.8	13	4
75.125	64.125	47.4	47.4	13	4
107.375	27.125	56.7	89.5	16	3
107.375	39.5	51.2	51.2	13	3
107.375	51.75	43.7	43.7	14	4
107.375	59.125	40.2	40.2	15	4
107.375	64.125	37.5	37.5	15	4
112.25	27.125	56.7	97.8	18	3
112.25	39.5	56.7	59.7	16	3
112.25	51.75	49.7	49.7	16	4
112.25	59.125	43.6	43.6	16	4
112.25	64.125	40.5	40.5	16	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4429 - 1/4" Annealed Fin Frame (XOX)
w/ HEAVY DUTY MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	73.3	100.0	11	2
85.125	25.125	73.3	100.0	13	3
97.125	25.125	73.3	100.0	15	3
109.125	25.125	73.3	100.0	17	3
121.125	25.125	73.3	100.0	19	3
73.125	37.125	73.3	94.2	15	4
85.125	37.125	73.3	79.2	14	4
97.125	37.125	68.1	68.1	14	3
109.125	37.125	58.9	58.9	14	3
121.125	37.125	52.1	52.1	14	3
73.125	49.125	68.1	68.1	14	4
85.125	49.125	59.5	59.5	14	4
97.125	49.125	54.4	54.4	15	4
109.125	49.125	48.6	48.6	15	4
121.125	49.125	43.9	43.9	15	4
73.125	61.125	52.1	52.1	13	4
85.125	61.125	63.3	63.3	18	5
97.125	61.125	43.8	43.8	14	4
109.125	61.125	40.7	40.7	15	4
121.125	61.125	38.4	38.4	16	4
54.25	27.125	73.3	100.0	9	2
54.25	39.5	73.3	100.0	12	4
54.25	51.75	73.3	81.3	13	4
54.25	59.125	73.3	73.4	13	4
54.25	64.125	69.0	69.0	13	4
75.125	27.125	73.3	100.0	12	3
75.125	39.5	73.3	82.4	14	4
75.125	51.75	60.6	60.6	13	4
75.125	59.125	51.8	51.8	13	4
75.125	64.125	47.4	47.4	13	4
107.375	27.125	73.3	89.5	16	3
107.375	39.5	51.2	51.2	13	3
107.375	51.75	43.7	43.7	14	4
107.375	59.125	40.2	40.2	15	4
107.375	64.125	37.5	37.5	15	4
112.25	27.125	73.3	97.8	18	3
112.25	39.5	59.7	59.7	16	3
112.25	51.75	49.7	49.7	16	4
112.25	59.125	43.6	43.6	16	4
112.25	64.125	40.5	40.5	16	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4457 - 3/16" Annealed Fin Frame (XOX)
w/ HEAVY DUTY MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	56.7	100.0	11	2
85.125	25.125	56.7	91.5	12	2
97.125	25.125	56.7	81.6	12	2
109.125	25.125	56.7	75.9	13	2
121.125	25.125	56.7	71.5	14	2
73.125	37.125	56.7	72.6	11	3
85.125	37.125	56.7	60.8	11	3
97.125	37.125	52.1	52.1	11	3
109.125	37.125	45.9	45.9	11	2
121.125	37.125	40.2	40.2	11	2
73.125	49.125	52.1	52.1	10	3
85.125	49.125	48.4	48.4	12	3
97.125	49.125	44.5	44.5	12	3
109.125	49.125	39.9	39.9	12	3
121.125	49.125	36.4	36.4	12	3
73.125	61.125	40.2	40.2	10	3
85.125	61.125	38.3	38.3	11	3
97.125	61.125	36.4	36.4	12	3
109.125	61.125	33.5	33.5	13	3
121.125	61.125	30.8	30.8	13	3
54.25	27.125	56.7	100.0	9	2
54.25	39.5	56.7	80.4	10	3
54.25	51.75	56.7	58.0	9	3
54.25	59.125	50.4	50.4	9	3
54.25	64.125	47.4	47.4	9	3
75.125	27.125	56.7	90.8	11	3
75.125	39.5	56.7	64.0	11	3
75.125	51.75	48.2	48.2	11	3
75.125	59.125	40.8	40.8	10	3
75.125	64.125	37.2	37.2	10	3
107.375	27.125	56.7	60.9	11	2
107.375	39.5	40.6	40.6	10	2
107.375	51.75	36.2	36.2	12	3
107.375	59.125	32.7	32.7	12	3
107.375	64.125	30.1	30.1	12	3
112.25	27.125	56.7	68.0	13	2
112.25	39.5	47.6	47.6	13	3
112.25	51.75	40.4	40.4	14	3
112.25	59.125	36.1	36.1	13	4
112.25	64.125	33.4	33.4	14	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4457 - 3/16" Annealed Fin Frame (XOX)
w/ HEAVY DUTY MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	73.3	100.0	11	2
85.125	25.125	73.3	91.5	12	2
97.125	25.125	73.3	81.6	12	2
109.125	25.125	73.3	75.9	13	2
121.125	25.125	71.5	71.5	14	2
73.125	37.125	72.6	72.6	11	3
85.125	37.125	60.8	60.8	11	3
97.125	37.125	52.1	52.1	11	3
109.125	37.125	45.9	45.9	11	2
121.125	37.125	40.2	40.2	11	2
73.125	49.125	52.1	52.1	10	3
85.125	49.125	48.4	48.4	12	3
97.125	49.125	44.5	44.5	12	3
109.125	49.125	39.9	39.9	12	3
121.125	49.125	36.4	36.4	12	3
73.125	61.125	40.2	40.2	10	3
85.125	61.125	38.3	38.3	11	3
97.125	61.125	36.4	36.4	12	3
109.125	61.125	33.5	33.5	13	3
121.125	61.125	30.8	30.8	13	3
54.25	27.125	73.3	100.0	9	2
54.25	39.5	73.3	80.4	10	3
54.25	51.75	58.0	58.0	9	3
54.25	59.125	50.4	50.4	9	3
54.25	64.125	47.4	47.4	9	3
75.125	27.125	73.3	90.8	11	3
75.125	39.5	64.0	64.0	11	3
75.125	51.75	48.2	48.2	11	3
75.125	59.125	40.8	40.8	10	3
75.125	64.125	37.2	37.2	10	3
107.375	27.125	60.9	60.9	11	2
107.375	39.5	40.6	40.6	10	2
107.375	51.75	36.2	36.2	12	3
107.375	59.125	32.7	32.7	12	3
107.375	64.125	30.1	30.1	12	3
112.25	27.125	68.0	68.0	13	2
112.25	39.5	47.6	47.6	13	3
112.25	51.75	40.4	40.4	14	3
112.25	59.125	36.1	36.1	13	4
112.25	64.125	33.4	33.4	14	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4594 - 3/16" Annealed Fin Frame (XOX)
w/ STANDARD MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	56.7	100.0	11	2
85.125	25.125	56.7	91.5	12	2
97.125	25.125	56.7	81.6	12	2
109.125	25.125	56.7	75.9	13	2
121.125	25.125	56.7	71.5	14	2
73.125	37.125	56.7	72.6	11	3
85.125	37.125	56.7	60.8	11	3
97.125	37.125	52.1	52.1	11	3
109.125	37.125	45.9	45.9	11	2
121.125	37.125	40.2	40.2	11	2
73.125	49.125	52.1	52.1	10	3
85.125	49.125	48.4	48.4	12	3
97.125	49.125	44.5	44.5	12	3
109.125	49.125	39.9	39.9	12	3
121.125	49.125	36.4	36.4	12	3
54.25	27.125	56.7	100.0	9	2
54.25	39.5	56.7	80.4	10	3
54.25	51.75	56.7	58.0	9	3
75.125	27.125	56.7	90.8	11	3
75.125	39.5	56.7	64.0	11	3
75.125	51.75	48.2	48.2	11	3
107.375	27.125	56.7	60.9	11	2
107.375	39.5	40.6	40.6	10	2
107.375	51.75	36.2	36.2	12	3
112.25	27.125	56.7	68.0	13	2
112.25	39.5	47.6	47.6	13	3
112.25	51.75	40.4	40.4	14	3

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4594 - 3/16" Annealed Fin Frame (XOX)
w/ STANDARD MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	73.3	100.0	11	2
85.125	25.125	73.3	91.5	12	2
97.125	25.125	73.3	81.6	12	2
109.125	25.125	73.3	75.9	13	2
121.125	25.125	71.5	71.5	14	2
73.125	37.125	72.6	72.6	11	3
85.125	37.125	60.8	60.8	11	3
97.125	37.125	52.1	52.1	11	3
109.125	37.125	45.9	45.9	11	2
121.125	37.125	40.2	40.2	11	2
73.125	49.125	52.1	52.1	10	3
85.125	49.125	48.4	48.4	12	3
97.125	49.125	44.5	44.5	12	3
109.125	49.125	39.9	39.9	12	3
121.125	49.125	36.4	36.4	12	3
54.25	27.125	73.3	100.0	9	2
54.25	39.5	73.3	80.4	10	3
54.25	51.75	58.0	58.0	9	3
75.125	27.125	73.3	90.8	11	3
75.125	39.5	64.0	64.0	11	3
75.125	51.75	48.2	48.2	11	3
107.375	27.125	60.9	60.9	11	2
107.375	39.5	40.6	40.6	10	2
107.375	51.75	36.2	36.2	12	3
112.25	27.125	68.0	68.0	13	2
112.25	39.5	47.6	47.6	13	3
112.25	51.75	40.4	40.4	14	3

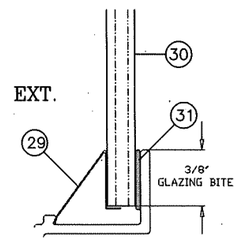
Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4578 - 1/8" Annealed Fin Frame (XOX)
w/ STANDARD MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	56.1	56.1	6	2
85.125	25.125	45.7	45.7	6	2
97.125	25.125	38.6	38.6	6	1
109.125	25.125	33.5	33.5	6	1
121.125	25.125	30.5	30.5	6	1
73.125	37.125	44.7	44.7	7	2
85.125	37.125	38.7	38.7	7	2
97.125	37.125	33.6	33.6	8	2
109.125	37.125	29.3	29.3	7	2
121.125	37.125	25.8	25.8	7	2
73.125	49.125	33.6	33.6	7	2
85.125	49.125	29.7	29.7	7	2
97.125	49.125	26.1	26.1	7	2
109.125	49.125	23.5	23.5	7	2
121.125	49.125	21.1	21.1	8	2
54.25	27.125	56.7	70.5	6	2
54.25	39.5	48.0	48.0	6	2
54.25	51.75	33.4	33.4	6	2
75.125	27.125	50.7	50.7	6	2
75.125	39.5	40.2	40.2	7	2
75.125	51.75	30.4	30.4	7	2
107.375	27.125	28.3	28.3	6	1
107.375	39.5	26.0	26.0	7	2
107.375	51.75	20.6	20.6	7	2
112.25	27.125	33.8	33.8	7	1
112.25	39.5	30.0	30.0	8	2
112.25	51.75	23.5	23.5	8	2

8600 Non Impact Horizontal Sliding Window
Test # FTL 4578 - 1/8" Annealed Fin Frame (XOX)
w/ STANDARD MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	56.1	56.1	6	2
85.125	25.125	45.7	45.7	6	2
97.125	25.125	38.6	38.6	6	1
109.125	25.125	33.5	33.5	6	1
121.125	25.125	30.5	30.5	6	1
73.125	37.125	44.7	44.7	7	2
85.125	37.125	38.7	38.7	7	2
97.125	37.125	33.6	33.6	8	2
109.125	37.125	29.3	29.3	7	2
121.125	37.125	25.8	25.8	7	2
73.125	49.125	33.6	33.6	7	2
85.125	49.125	29.7	29.7	7	2
97.125	49.125	26.1	26.1	7	2
109.125	49.125	23.5	23.5	7	2
121.125	49.125	21.1	21.1	8	2
54.25	27.125	70.5	70.5	6	2
54.25	39.5	48.0	48.0	6	2
54.25	51.75	33.4	33.4	6	2
75.125	27.125	50.7	50.7	6	2
75.125	39.5	40.2	40.2	7	2
75.125	51.75	30.4	30.4	7	2
107.375	27.125	28.3	28.3	6	1
107.375	39.5	26.0	26.0	7	2
107.375	51.75	20.6	20.6	7	2
112.25	27.125	33.8	33.8	7	1
112.25	39.5	30.0	30.0	8	2
112.25	51.75	23.5	23.5	8	2



MONOLITHIC GLASS
ANNEALED OR TEMPERED(*)
1/8", 3/16" OR 1/4" THICK
(SEE DESIGN PRESSURE TABLES)

GLAZING DETAIL

* Tempered glass marked in compliance with CPSC 16 CFR Part 1201" or "ANSI Z97.1–2015.

Note:
1. WINDOW WIDTHS & HEIGHTS ARE THE OVERALL EXTERIOR FRAME DIMENSIONS.

PRODUCT REVISED
As complying with the Florida Building Code
NOA–No. 25-1219.02
Expiration Date: 02/23/2031
By: Manuel Perez
Miami–Dade Product Control

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

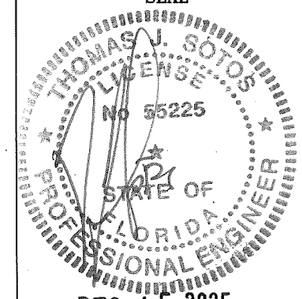
CWS 320 ALUMINUM FIN FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

REVISIONS

NO:	DESCRIPTION:	BY:	DATE:
B	Renews NOA # 22-0612.04	N.E.	12/13/25
A	Revises NOA # 23-1017.09	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL



DATE: DEC 15 2025

SHEET DESCRIPTION:
GLASS LOAD CHARTS & MONOLITHIC GLAZING DETAIL (XOX)

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1257	B
SCALE:	SHEET
AS NOTED	6 OF 8

8600 Non Impact Horizontal Sliding Window
Test # FTL 4541 - 1/8" Annealed Insulated Fin Frame (XOX)
w/ HEAVYDUTY MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	56.7	100.0	11	2
85.125	25.125	56.7	82.3	11	2
97.125	25.125	56.7	69.4	11	2
109.125	25.125	56.7	60.3	11	2
121.125	25.125	54.8	54.8	11	2
73.125	37.125	56.7	80.5	13	3
85.125	37.125	56.7	69.6	13	3
97.125	37.125	56.7	60.5	13	3
109.125	37.125	52.8	52.8	13	3
121.125	37.125	46.5	46.5	12	3
73.125	49.125	56.7	60.4	12	3
85.125	49.125	53.4	53.4	13	3
97.125	49.125	47.0	47.0	13	3
109.125	49.125	42.2	42.2	13	3
121.125	49.125	38.0	38.0	13	3
73.125	61.125	46.4	46.4	12	3
85.125	61.125	43.2	43.2	13	4
97.125	61.125	38.0	38.0	13	4
109.125	61.125	34.2	34.2	13	4
121.125	61.125	30.9	30.9	13	3
54.25	27.125	56.7	100.0	9	2
54.25	39.5	56.7	86.4	10	3
54.25	51.75	56.7	60.1	10	3
54.25	59.125	48.8	48.8	9	3
54.25	64.125	43.7	43.7	9	3
75.125	27.125	56.7	91.2	11	3
75.125	39.5	56.7	72.3	12	3
75.125	51.75	54.7	54.7	12	3
75.125	59.125	47.1	47.1	12	3
75.125	64.125	43.4	43.4	12	3
107.375	27.125	50.9	50.9	9	2
107.375	39.5	46.8	46.8	12	3
107.375	51.75	37.1	37.1	12	3
107.375	59.125	32.9	32.9	12	3
107.375	64.125	30.2	30.2	12	3
112.25	27.125	56.7	60.9	11	2
112.25	39.5	53.9	53.9	14	3
112.25	51.75	42.3	42.3	14	4
112.25	59.125	36.9	36.9	14	4
112.25	64.125	34.5	34.5	14	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4541 - 1/8" Annealed Insulated Fin Frame (XOX)
w/ HEAVYDUTY MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	73.3	100.0	11	2
85.125	25.125	73.3	82.3	11	2
97.125	25.125	69.4	69.4	11	2
109.125	25.125	60.3	60.3	11	2
121.125	25.125	54.8	54.8	11	2
73.125	37.125	73.3	80.5	13	3
85.125	37.125	69.6	69.6	13	3
97.125	37.125	60.5	60.5	13	3
109.125	37.125	52.8	52.8	13	3
121.125	37.125	46.5	46.5	12	3
73.125	49.125	60.4	60.4	12	3
85.125	49.125	53.4	53.4	13	3
97.125	49.125	47.0	47.0	13	3
109.125	49.125	42.2	42.2	13	3
121.125	49.125	38.0	38.0	13	3
73.125	61.125	46.4	46.4	12	3
85.125	61.125	43.2	43.2	13	4
97.125	61.125	38.0	38.0	13	4
109.125	61.125	34.2	34.2	13	4
121.125	61.125	30.9	30.9	13	3
54.25	27.125	73.3	100.0	9	2
54.25	39.5	73.3	86.4	10	3
54.25	51.75	60.1	60.1	10	3
54.25	59.125	48.8	48.8	9	3
54.25	64.125	43.7	43.7	9	3
75.125	27.125	73.3	91.2	11	3
75.125	39.5	72.3	72.3	12	3
75.125	51.75	54.7	54.7	12	3
75.125	59.125	47.1	47.1	12	3
75.125	64.125	43.4	43.4	12	3
107.375	27.125	50.9	50.9	9	2
107.375	39.5	46.8	46.8	12	3
107.375	51.75	37.1	37.1	12	3
107.375	59.125	32.9	32.9	12	3
107.375	64.125	30.2	30.2	12	3
112.25	27.125	60.9	60.9	11	2
112.25	39.5	53.9	53.9	14	3
112.25	51.75	42.3	42.3	14	4
112.25	59.125	36.9	36.9	14	4
112.25	64.125	34.5	34.5	14	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window - XO or OX
Test # FTL 4533 - 1/8" Annealed Insulated Fin Frame
w/ HEAVYDUTY MEETING RAIL & STANDARD SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	56.7	100.0	3	2
37.125	25.125	56.7	100.0	5	3
49.125	25.125	56.7	100.0	7	3
61.125	25.125	56.7	100.0	9	3
73.125	25.125	56.7	96.5	10	3
25.125	37.125	56.7	100.0	4	3
37.125	37.125	56.7	100.0	6	4
49.125	37.125	56.7	98.9	9	5
61.125	37.125	56.7	89.5	10	5
73.125	37.125	56.7	77.9	11	4
25.125	49.125	56.7	100.0	5	4
37.125	49.125	56.7	100.0	8	6
49.125	49.125	56.7	67.8	7	5
61.125	49.125	56.7	64.5	9	5
73.125	49.125	56.7	59.1	10	5
25.125	61.125	56.7	100.0	6	5
37.125	61.125	56.7	91.2	9	6
49.125	61.125	51.7	51.7	7	5
61.125	61.125	46.3	46.3	8	5
73.125	61.125	46.0	46.0	10	5
27.625	27.125	56.7	100.0	4	3
27.625	39.5	56.7	100.0	5	4
27.625	51.75	56.7	100.0	6	5
27.625	59.125	56.7	100.0	7	5
27.625	64.125	56.7	100.0	7	6
38.125	27.125	56.7	100.0	5	3
38.125	39.5	56.7	100.0	7	4
38.125	51.75	56.7	92.0	8	6
38.125	59.125	56.7	86.9	8	6
38.125	64.125	56.7	84.3	9	6
54.25	27.125	56.7	100.0	8	3
54.25	39.5	56.7	88.2	9	5
54.25	51.75	56.7	60.4	8	5
54.25	59.125	49.4	49.4	7	5
54.25	64.125	44.4	44.4	7	5
75.125	27.125	56.7	90.9	11	3
75.125	39.5	56.7	72.2	11	4
75.125	51.75	54.6	54.6	10	5
75.125	59.125	47.1	47.1	10	5
75.125	64.125	43.3	43.3	10	5

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window - XO or OX
Test # FTL 4533 - 1/8" Annealed Insulated Fin Frame
w/ HEAVYDUTY MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
25.125	25.125	73.3	100.0	3	2
37.125	25.125	73.3	100.0	5	3
49.125	25.125	73.3	100.0	7	3
61.125	25.125	73.3	100.0	9	3
73.125	25.125	73.3	96.5	10	3
25.125	37.125	73.3	100.0	4	3
37.125	37.125	73.3	100.0	6	4
49.125	37.125	73.3	98.9	9	5
61.125	37.125	73.3	89.5	10	5
73.125	37.125	73.3	77.9	11	4
25.125	49.125	73.3	100.0	5	4
37.125	49.125	73.3	100.0	8	6
49.125	49.125	67.8	67.8	7	5
61.125	49.125	64.5	64.5	9	5
73.125	49.125	59.1	59.1	10	5
25.125	61.125	73.3	100.0	6	5
37.125	61.125	73.3	91.2	9	6
49.125	61.125	51.7	51.7	7	5
61.125	61.125	46.3	46.3	8	5
73.125	61.125	46.0	46.0	10	5
27.625	27.125	73.3	100.0	4	3
27.625	39.5	73.3	100.0	5	4
27.625	51.75	73.3	100.0	6	5
27.625	59.125	73.3	100.0	7	5
27.625	64.125	73.3	100.0	7	6
38.125	27.125	73.3	100.0	5	3
38.125	39.5	73.3	100.0	7	4
38.125	51.75	73.3	92.0	8	6
38.125	59.125	73.3	86.9	8	6
38.125	64.125	73.3	84.3	9	6
54.25	27.125	73.3	100.0	8	3
54.25	39.5	73.3	88.2	9	5
54.25	51.75	60.4	60.4	8	5
54.25	59.125	49.4	49.4	7	5
54.25	64.125	44.4	44.4	7	5
75.125	27.125	73.3	90.9	11	3
75.125	39.5	72.2	72.2	11	4
75.125	51.75	54.6	54.6	10	5
75.125	59.125	47.1	47.1	10	5
75.125	64.125	43.3	43.3	10	5

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4588 - 1/8" Annealed Insulated Fin Frame (XOX)
w/ STANDARD MEETING RAIL & STANDARD SILL

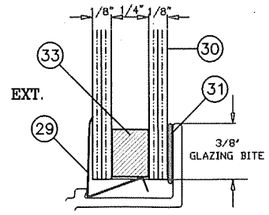
Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	56.7	100.0	11	2
85.125	25.125	56.7	82.3	11	2
97.125	25.125	56.7	69.4	11	2
109.125	25.125	56.7	60.3	11	2
121.125	25.125	54.8	54.8	11	2
73.125	37.125	56.7	80.5	13	3
85.125	37.125	56.7	69.6	13	3
97.125	37.125	56.7	60.5	13	3
109.125	37.125	52.8	52.8	13	3
121.125	37.125	46.5	46.5	12	3
73.125	49.125	56.7	57.0	12	3
85.125	49.125	52.9	52.9	13	3
97.125	49.125	47.0	47.0	13	3
109.125	49.125	42.2	42.2	13	3
121.125	49.125	38.0	38.0	13	3
54.25	27.125	56.7	100.0	9	2
54.25	39.5	56.7	86.4	10	3
54.25	51.75	56.7	60.1	10	3
75.125	27.125	56.7	91.2	11	3
75.125	39.5	56.7	72.3	12	3
75.125	51.75	52.1	52.1	12	3
107.375	27.125	50.9	50.9	9	2
107.375	39.5	46.8	46.8	12	3
107.375	51.75	37.1	37.1	12	3
112.25	27.125	56.7	60.9	11	2
112.25	39.5	53.9	53.9	14	3
112.25	51.75	42.3	42.3	14	4

Pressure Limited to Negative 100psf.

8600 Non Impact Horizontal Sliding Window
Test # FTL 4588 - 1/8" Annealed Insulated Fin Frame (XOX)
w/ STANDARD MEETING RAIL & HI-RISE SILL

Width (in)	Height (in)	DP(+) psf	DP(-) psf	Anchors	
				Head & Sill	Each Jamb
73.125	25.125	73.3	100.0	11	2
85.125	25.125	73.3	82.3	11	2
97.125	25.125	69.4	69.4	11	2
109.125	25.125	60.3	60.3	11	2
121.125	25.125	54.8	54.8	11	2
73.125	37.125	73.3	80.5	13	3
85.125	37.125	69.6	69.6	13	3
97.125	37.125	60.5	60.5	13	3
109.125	37.125	52.8	52.8	13	3
121.125	37.125	46.5	46.5	12	3
73.125	49.125	57.0	57.0	12	3
85.125	49.125	52.9	52.9	13	3
97.125	49.125	47.0	47.0	13	3
109.125	49.125	42.2	42.2	13	3
121.125	49.125	38.0	38.0	13	3
54.25	27.125	73.3	100.0	9	2
54.25	39.5	73.3	86.4	10	3
54.25	51.75	60.1	60.1	10	3
75.125	27.125	73.3	91.2	11	3
75.125	39.5	72.3	72.3	12	3
75.125	51.75	52.1	52.1	12	3
107.375	27.125	50.9	50.9	9	2
107.375	39.5	46.8	46.8	12	3
107.375	51.75	37.1	37.1	12	3
112.25	27.125	60.9	60.9	11	2
112.25	39.5	53.9	53.9	14	3
112.25	51.75	42.3	42.3	14	4

Pressure Limited to Negative 100psf.



1/2" OVERALL INSULATED GLASS
CONSIST OF:
1/8" ANNEALED OR TEMPERED LITE(*)
+ 1/4" AIR SPACE
+ 1/8" ANNEALED OR TEMPERED LITE(*)
(SEE DESIGN PRESSURE TABLES)

(33) **Insulated Spacer Types & Options**
33a) TrueSeal Swiggle Seal
33b) Quanex SuperSpacer w/ Isomelt M
33c) Quanex Duraseal

GLAZING DETAIL & DESCRIPTION

Note:
1. WINDOW WIDTHS & HEIGHTS ARE THE OVERALL FIN FRAME DIMENSIONS.

* Tempered glass marked in compliance with CPSC 16 CFR Part 1201" or "ANSI Z97.1-2015.

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-1219.02
Expiration Date: 02/23/2031
By: Manuel Perez
Miami-Dade Product Control

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

CWS 320 ALUMINUM FIN FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

REVISIONS

NO:	DESCRIPTION:	BY:	DATE:
B	Renews NOA # 22-0612.04	N.E.	12/13/25
A	Revises NOA # 23-1017.09	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

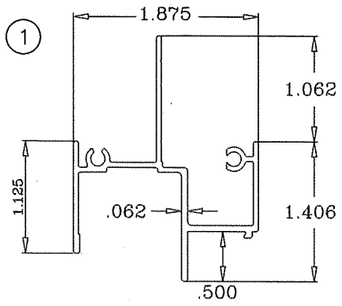
THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE DEC 15 2025

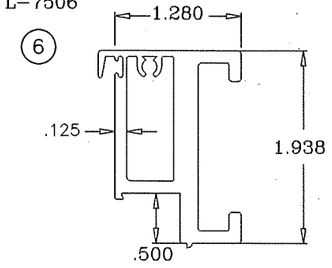
SHEET DESCRIPTION:
GLASS LOAD CHARTS & INSULATED GLAZING DETAIL

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1257	B
SCALE:	SHEET
AS NOTED	7 OF 8

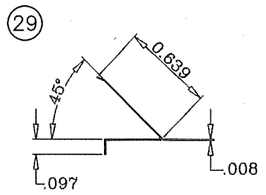
FRAME HEAD
L-7603



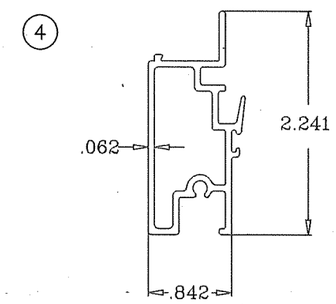
VENT INTERLOCK RAIL (Heavy Duty)
L-7506



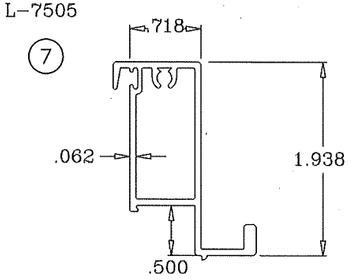
GLAZING BEAD
L-7516



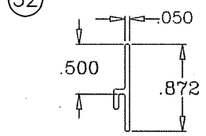
FIXED MEETING RAIL
L-7504



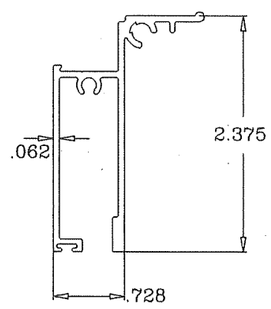
VENT INTERLOCK RAIL (Standard Duty)
L-7505



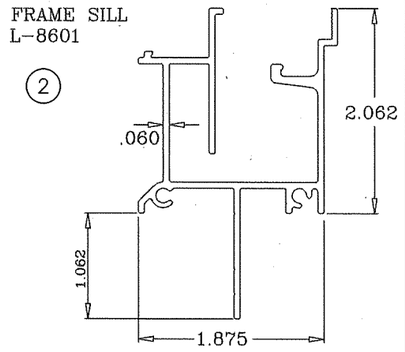
FRAME SILL RISER ADAPTER
L-8503



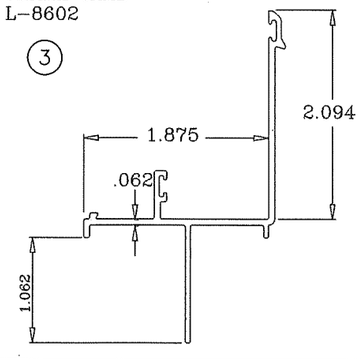
VENT JAMB RAIL
L-7507



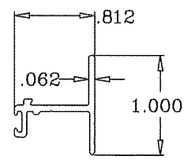
FRAME SILL
L-8601

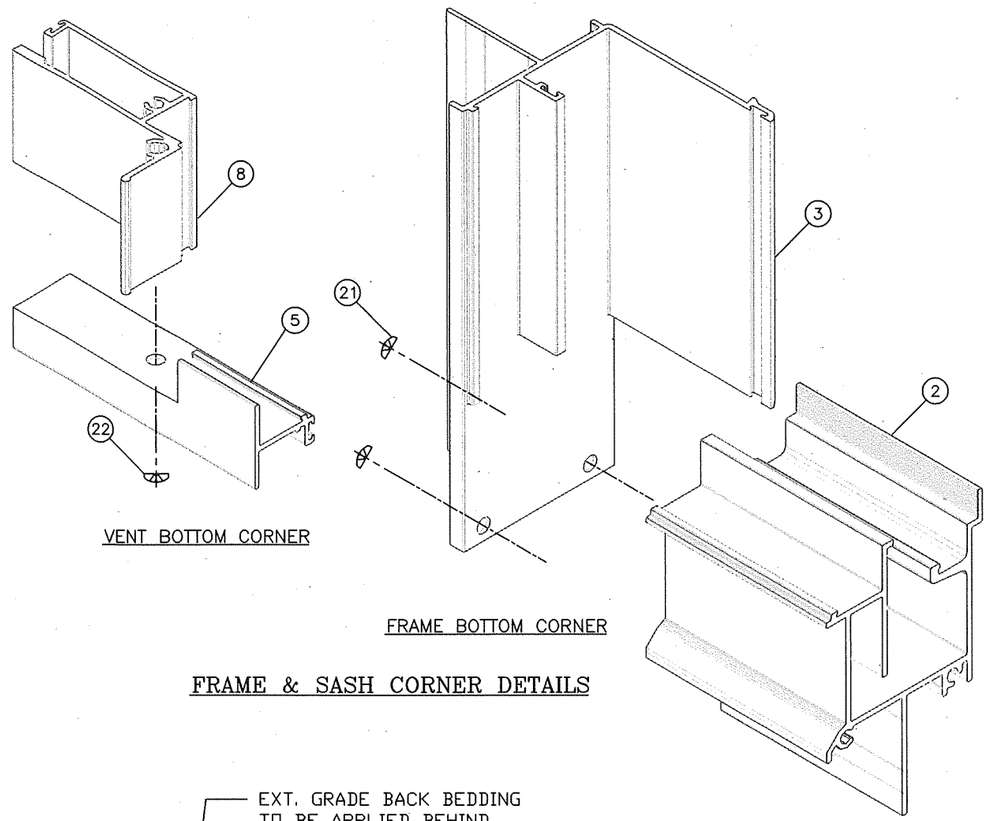


FRAME JAMB
L-8602



VENT TOP / BOTTOM RAIL
L-7508

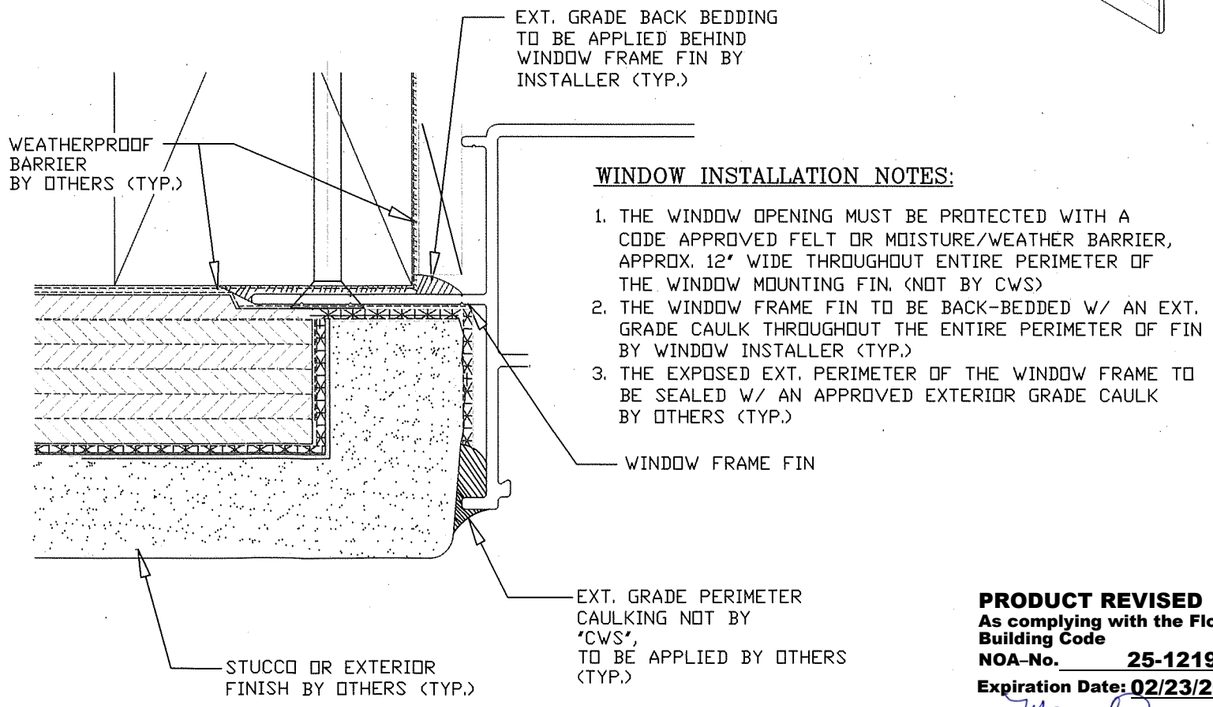




VENT BOTTOM CORNER

FRAME BOTTOM CORNER

FRAME & SASH CORNER DETAILS



WINDOW INSTALLATION DETAIL

WINDOW INSTALLATION NOTES:

1. THE WINDOW OPENING MUST BE PROTECTED WITH A CODE APPROVED FELT OR MOISTURE/WEATHER BARRIER, APPROX. 12" WIDE THROUGHOUT ENTIRE PERIMETER OF THE WINDOW MOUNTING FIN. (NOT BY CWS)
2. THE WINDOW FRAME FIN TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FIN BY WINDOW INSTALLER (TYP.)
3. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP.)

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-1219.02
Expiration Date: 02/23/2031
By: Manuel Perez
Miami-Dade Product Control

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

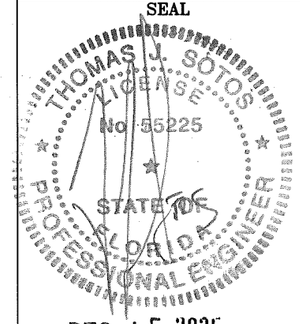
CWS 320 ALUMINUM FIN FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
B	Renews NOA # 22-0612.04	N.E.	12/13/25
A	Revises NOA # 23-1017.09	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL



DATE: DEC 15 2025

SHEET DESCRIPTION:
EXTRUSION DETAILS & CORNER ASSEMBLY DETAILS

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1257	B
SCALE:	SHEET
AS NOTED	8 OF 8