

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

PRODUCT CONTROL SECTION

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**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 44<sup>th</sup> 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 (Flange Frame)" Aluminum Horizontal Rolling Window - N.I.

**APPROVAL DOCUMENT:** Drawing No. **CWS-1226**, titled "CWS 320 Aluminum Flange Frame Non-Impact Horizontal Rolling Window", sheets 1 through 9 of 9, dated 11/17/23, 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, 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 No. 23-1017.08 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

1/25/24

NOA No. 24-0116.16 Expiration Date: January 26, 2026 Approval Date: February 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. 09-0720.07)
- 2. Drawing No. **L8500-0401**, titled "HS-8500 Horizontal Rolling Flange Window", sheets 1 through 9 of 9, dated 05/02/05, with revision **F** dated 10/09/23, prepared by manufacturer, and signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No. 23-1017.08)

#### 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. 23-1017.08)
- 2. 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 Hurricane Engineering & Testing Laboratory, Inc., Test Reports No. **HETI-08-2158** and **HETI-08-2160**, dated 09/03/08, both signed and sealed by Candido F. Font, P.E.

(Submitted under NOA No. 09-0720.07)

- 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 Hurricane Engineering & Testing Laboratory, Inc., Test Report No. HETI-08-2159, dated 09/03/08, signed and sealed by Candido F. Font, P.E. (Submitted under NOA No. 09-0720.07)
- **4.** 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-4413**, dated 06/23/05, **FTL-4429** and **FTL-4541**, dated 06/24/05, all signed and sealed by Edmundo J. Largaespada, P.E.

(Submitted under NOA No. 05-0919.05)

Manuel Perez, P.E. Product Control Examiner NOA No. 24-0116.16

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- B. TESTS (CONTINUED)
  - 5. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
    2) Water Resistance Test, per FBC, TAS 202-94
    along with marked-up drawings and installation diagram of an aluminum horizontal sliding windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No.
    FTL-4533, dated 06/22/05, signed and sealed by Edmundo J. Largaespada, P.E.
    (Submitted under NOA No. 05-0919.05)
  - 6. 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-4547 dated 06/23/05, FTL-4457, FTL-4578, FTL-4588 and FTL-4594 dated 06/24/05, all signed and sealed by Edmundo J. Largaespada, P.E. (Submitted under NOA No. 05-0919.05)

# C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, dated 08/17/05 and 07/16-17/09, prepared by manufacturer, both signed and sealed by Thomas J. Sotos, P.E.

(Submitted under NOA No. 10-1025.04)

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 8<sup>th</sup> Edition (2023)**, dated October 12, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.

(Submitted under NOA No. 23-1017.08)

- 2. Statement letter of no financial interest, dated October 12, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No. 23-1017.08)
- 3. 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)

Manuel Perez, P.E. Product Control Examiner NOA No. 24-0116.16

## **Custom Window Systems, Inc.**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- F. STATEMENTS (CONTINUED)
  - 4. Laboratory compliance letter for Test Reports No. **HETI-08-2158**, **HETI-08-2159**, and **HETI-08-2160**, dated 09/03/08, all issued by Hurricane Engineering & Testing Laboratory, Inc., signed and sealed by Candido F. Font, P.E. (Submitted under NOA No. 09-0720.07)
  - Laboratory compliance letter for Test Reports No. FTL-4533, FTL-4553 dated 06/22/05, FTL-4413, FTL-4456, FTL-4547, dated 06/23/05, FTL-4429, FTL-4457, FTL-4541, FTL-4578, FTL-4588, FTL-4594 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. **20-0813.04**, issued to Lawson Industries, Inc. for their Series "HS-8500 (Flange Frame)" Aluminum Horizontal Sliding Window – N.I., approved on 10/15/20 and expiring on 01/26/26.

Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0116.16

## **Custom Window Systems, Inc.**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## 2. NEW EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. **CWS-1226**, titled "CWS 320 Aluminum Flange Frame Non-Impact Horizontal Rolling Window", sheets 1 through 9 of 9, dated 11/17/23, 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.

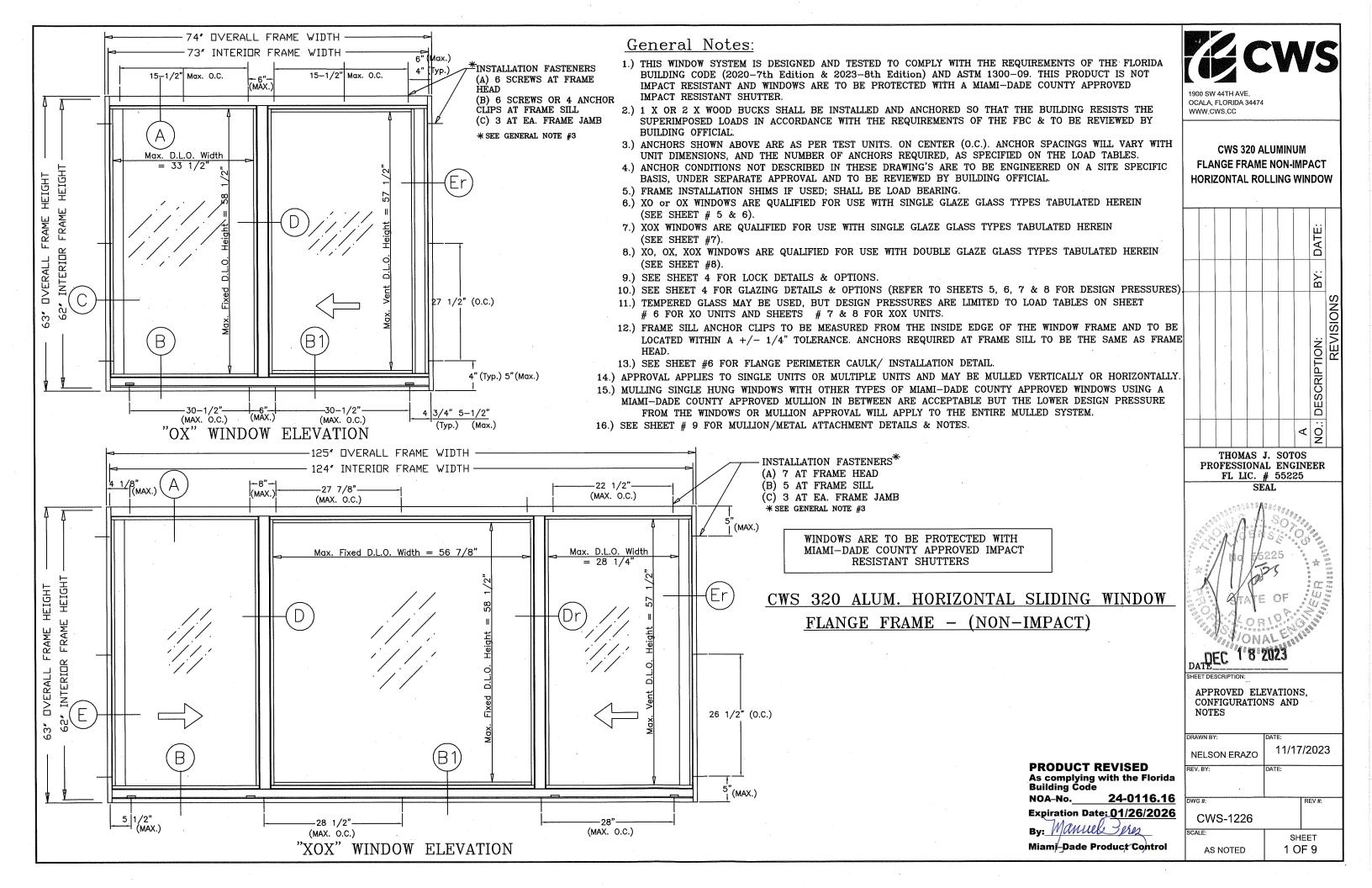
## F. STATEMENTS

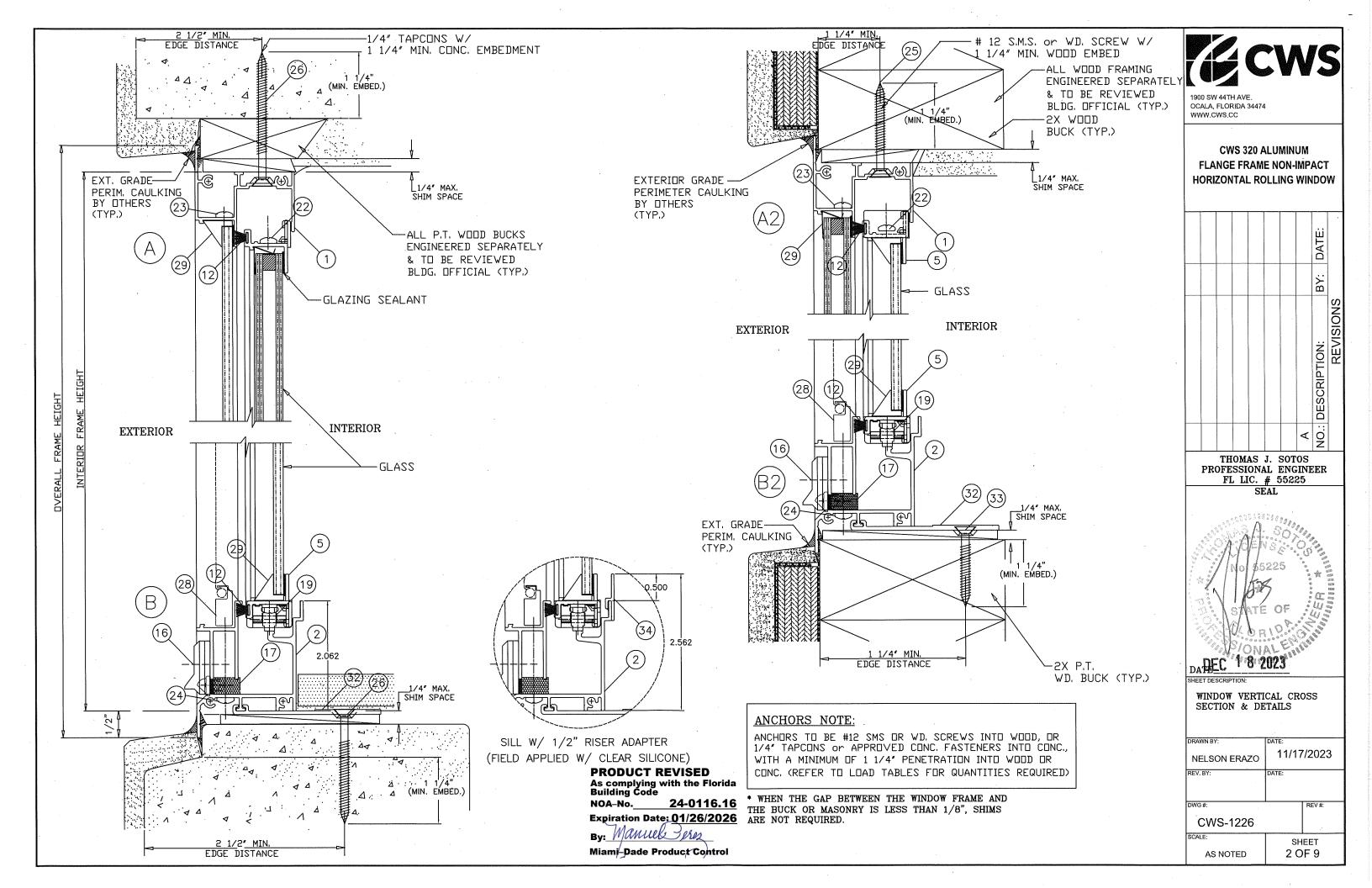
- 1. Statement letter of conformance, complying with **FBC 8<sup>th</sup> Edition (2023)**, dated December 18, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
- 2. Statement letter of no financial interest, dated December 18, 2023, issued by the manufacturer, signed and sealed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

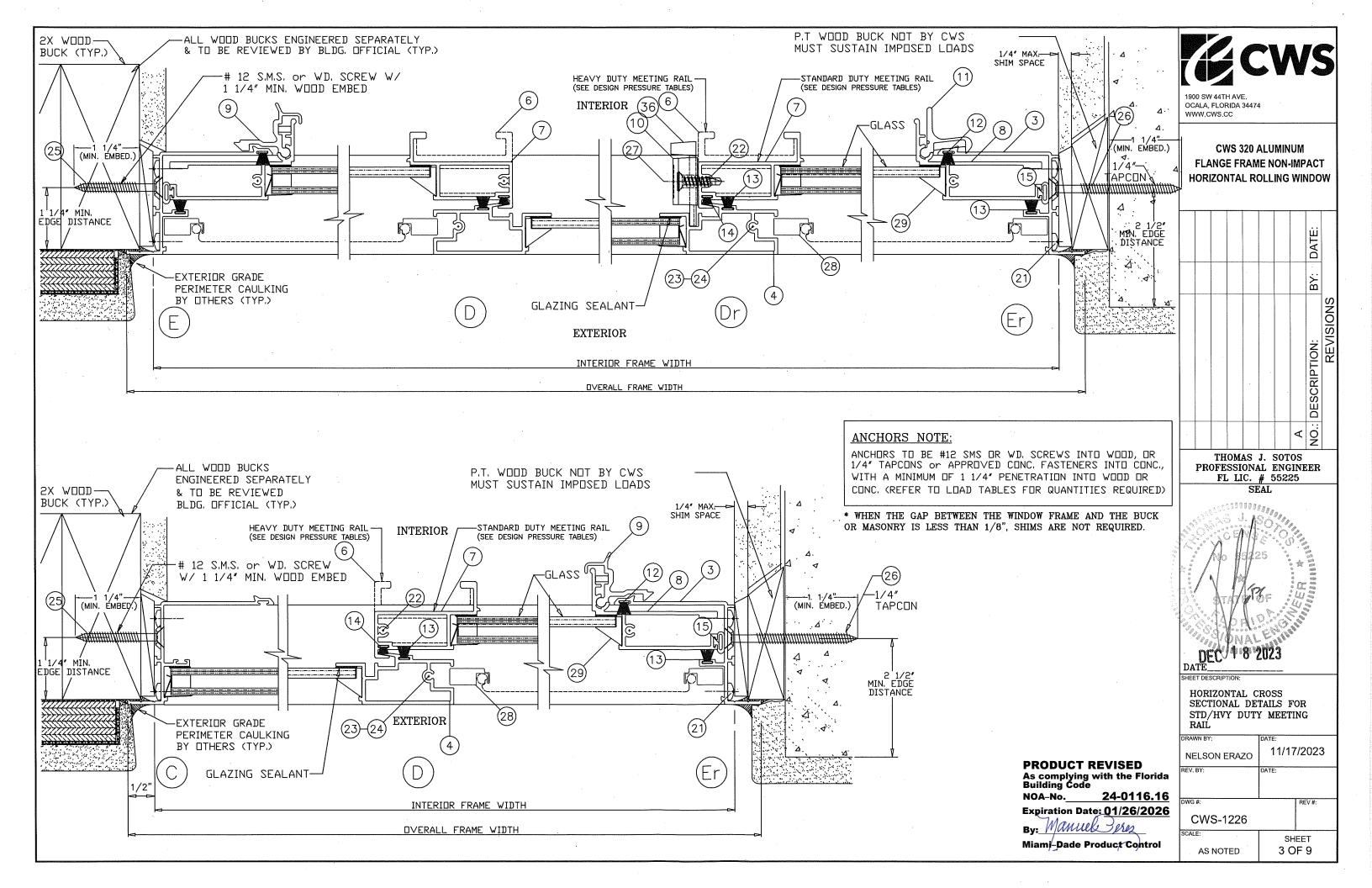
#### G. OTHERS

1. Notice of Acceptance No. **23-1017.08**, issued to Lawson Industries, Inc. for their Series "HS-8500 (Flange Frame)" Aluminum Horizontal Rolling Window – N.I., approved on 11/16/23 and expiring on 01/26/26.

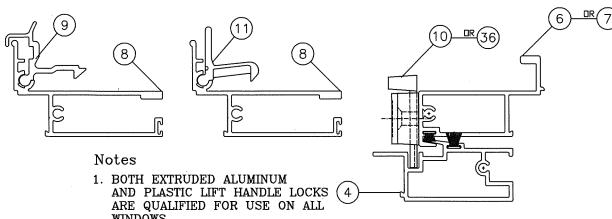
Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0116.16







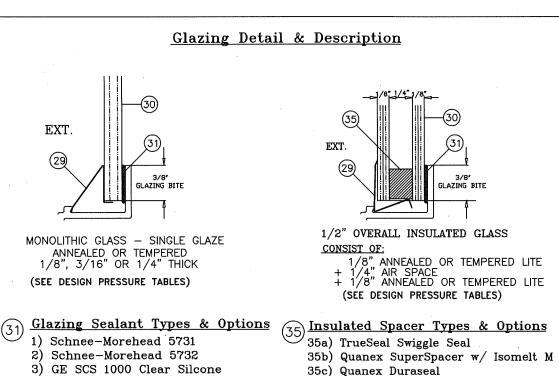
1 1 2	PART #	DRWG. #				
	1 7502	· · · · · · · · · · · · · · · · · ·	REQD.	DESCRIPTION	REMARKS	
2	L-/303	LII-127	1	FRAME HEAD	6063-T6 ALUMINUM	
	L-8501	LII-135	1	FRAME SILL	6063-T5 ALUMINUM	
3	L-8502	LII-131	5	FRAME JAMB	6063-T6 ALUMINUM	
4	L-7504	LII-129	2 x frame	FIXED MEETING RAIL	6005-T6 ALUMINUM	
5	L-7508	LII-124	2 x vent	VENT TOP / BOTTOM RAIL	6063-T5 ALUMINUM	
6	L-7506	LII-126	1 × vent	VENT INTERLOCK RAIL-H.D.	6005-T6 ALUMINUM	
7	L-7505	LII-125	1 × vent	VENT INTERLOCK STD. DUTY	6005-T5 ALUMINUM	
8	L-7507	LII-136	1 × vent	VENT LATCH JAMB	6005-T6 ALUMINUM	
9	*	LII-012	2 x vent	VENT EXTRUDED LOCK	6063-T5 ALUMINUM	
10	*	*	*	VENT CAM LOCK	DIE-CAST CAM LOCK	
11	*	*	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"×3/8"× 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 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.	
55	*	*	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	*	*	SEE CHART	FRAME INSTALL'N SCREW	#12 X 1 1/2" F.HPHIS.M.S	
26	* *	*	SEE CHART	FRAME INSTALL'N SCREW	1/4" X 1 3/4" F.HTAPCON	
27	*	*	2 X LOCK	CAM LOCK ATTCH'NT SCREW	#8 X 7/8" F.H. / PHI.	
28	*	*	1 x vent	INSECT SCREEN	*	
29	L-7515/16	*	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-5108	LII-111	1x anchor	SILL ANCHOR CLIP- 2"Long	6063-T6 ALUMINUM	
33	*	*	· 5	FRAME SILL INST'N SCREW	#12 X 1 3/4" F.H. / PHI.	
34	L-8503	LII-132	1	FRAME SILL 1/2" RISER	6063-T6 ALUMINUM	
35 α	*	774-25B-767	AS REQ'D	"TruSeal" Swiggle Seal	Black -1/4" air space	
35 b	*	774-25B-767	ÁS REQ'D	"TruSeal" Swiggle Seal	Black -1/4" air space	
35 c	*	774-25B-767	AS REQ'D	"TruSeal" Swiggle Seal	Black -1/4" air space	
36	HC-058-1		2	VENT SWEEP LATCH	MOLDED NYLON	



- WINDOWS.
- 2. BOTH DIE CAST METAL AND MOLDED PLASTIC CAM LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS
- 3. TWO (2) LOCKS ARE REQUIRED PER EACH VENT.

4) Dow Corning Clear Silcone

# LOCK (LATCH AND SWEEP) OPTIONS



**PRODUCT REVISED** As complying with the Florida Building Code NOA-No. 24-0116.16

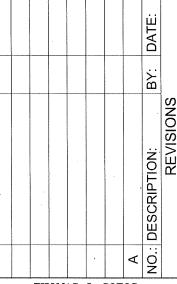
Expiration Date: 01/26/2026 By: Manuel Perez

Miami-Dade Product Control



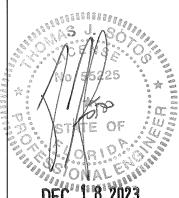
OCALA, FLORIDA 34474 WWW.CWS.CC

**CWS 320 ALUMINUM** FLANGE FRAME NON-IMPACT **HORIZONTAL ROLLING WINDOW** 



THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225

SEAL



BILL OF MATERIALS. GLAZING DETAILS & LOCK OPTIONS

DRAWN BY:	DATE:	
NELSON ERAZO	11/17	7/2023
REV. BY:	DATE:	
·		
DWG #:		REV #:
CWS-1226	•	
SCALE:	SH	EET
AS NOTED	1	F 9
1		-

#### Test # FTL 4413 - 1/4" Annealed Flange Frame (XO or OX) W/ HEAVY DUTY MEETING RAIL & STANDARD SILL psf Head & Sill Each Jamb (in) (in) 26,5 100,0 26 60.0 60.0 100.0 53 125 100,0 26 60.0 74 26 60.0 100.0 26.5 38,375 60,0 100,0 37 38.375 60.0 100.0 100.0 38.375 60.0 74 38,375 60.0 100.0 100.0 26.5 50.625 60.0 37 50.625 60.0 100.0 53.125 50.625 60.0 89.6 74 50.625 60.0 74.8 26.5 58 100.0 60.0 37 58 60.0 98.6 4 58 60,0 74.9 53,125 4 74 60.0 60.8 58 26.5 60.0 100.0 37 63 60.0 89.4 3 53.125 63 60.0 67.3 4 74 63 54.0 54.0 24 60.0 100.0 36 24 100.0 2 2 60.0 48 24 100.0 60.0 60 24 60.0 100.0 24 60.0 100.0 60.0 100.0 100.0 36 36 60.0 48 36 60,0 100,0 60 36 60.0 100.0 4 72 36 60.0 100.0 48 60.0 100,0 100.0 36 48 60.0 48 48 60.0 100,0 4 60 48 60.0 89.8 5 72 48 60.0 82.3 100.0 36 60 60 96.9 4 48 60 60 77.2 4 60 60 60 65.9 4 3 72 60 58,8 58.8 3 5 Pressure Limited to Negative 100psf

	TL 4413 - 1 HEAVY DU			
Width	Height	DP(+)	DP(-)	And
(in)	(in)	psf	psf	Head & Sill
26,5	26	73.3	100.0	2
37	26	73.3	100.0	2
53,125	26	73,3	100,0	3
74	26	73.3	100.0	5
26.5	38.375	73.3	100.0	2
37	38.375	73.3	100.0	3
53.125	38.375	73.3	100.0	4
74	38.375	73.3	100.0	6
26.5	50.625	73.3	100.0	2
37	50,625	73,3	100.0	3
53.125	50.625	73.3	89.6	4
74	50.625	73.3	74.8	5
26.5	58	73.3	100.0	3
37	58	73.3	98.6	4
53,125	58	73,3	74.9	4
74	58	60.8	60,8	· 5
26.5	63	73.3	100.0	3
37	63	73.3	89.4	3
53.125	63	67.3	67.3	4
74	63	54.0	54.0	5
24	24	73.3	100.0	2
36	24	73.3	100.0	2
48	24	73.3	100.0	<sup>'</sup> 3
60	24	73.3	100.0	3

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e ( XC ISE SI	or OX)			TL 4456 - 3 EAVY DUT				
Anc	hors		Width	Height	DP(+)	DP(-)	Anc	hors
l & Sill	Each Jamb		(in)	(in)	psf	psf	Head & Sill	Each Jamb
2	2		26.5	26	60.0	100.0	2	2
2	2		37	26	60.0	100,0	2	2
3	2		53,125	26	60,0	100,0	3	2
5	2		74	26	60.0	100.0	5	2
2	2		26,5	38.375	60.0	100,0	2	2
3	2		37	38.375	60.0	100.0	3	2
4	2		53.125	38,375	60.0	100.0	4	2
6	2	١	74	38.375	60.0	83.8	5	2
2	2	١	26.5	50.625	60.0	100.0	2	2
3	2	ı	37	50.625	60.0	100.0	3	2
4	3	-	53.125	50.625	60,0	77.0	4	2 .
5	3	-	74	50.625	60.0	63.6	5	2
3	2	-	26.5	58	60.0	100.0	3	2
4	3	-	37	58	60.0	88.7	3	3
4	3	-	53,125	58	60.0	67.1	4	2
5	3		74	58	53.7	53.7	4	3
3	2		26,5	63	60.0	100.0	3	2
3	3		37	63	60.0	80,5	3	2
4	3		53.125	63	60.0	60.6	4	2
5	3		74	63	48.3	48.3	4	2
2	2		24	24	60.0	100.0	2	2
2	2		36	24	60.0	100.0	2	2
3	2		48	24	60.0	100.0	3	2
3	2		60	24	60.0	100.0	3	2
4	2		72	24	60.0	100.0	4	2
2	2		24	36	60.0	100.0	2	2
3	2		36	36	60.0	100.0	3	2
3	2		48	36	60.0	100,0	3	2
4	2		60	36	60,0	94,8	4	2
5	2		72	36	60,0	88.1	5	2
2	2		24	48	60.0	100.0	2	2
3	2		36	48	60,0	100.0	3	2
4	3		48	48	60.0	89.7	4	2
5	3		60	48	60.0	76.0	4	2
5	3		72	48	60.0	69.5	5	2
	The second second second			1		1		*

W/ HEAVY DUTY MEETING RAIL & STANDARD SILL							
Width	Height	DP(+)	DP(-)	DP(-) Anchors			
(in)	(in)	psf	psf	Head & Sill	Each Jamb		
26,5	26	60,0	100.0	2	2		
37	26	60.0	100.0	2	2		
53,125	26	60,0	100,0	3	2		
74	26	60.0	100.0	5	2		
26,5	38.375	60.0	100,0	2	2		
37	38.375	60.0	100.0	3	2		
53.125	38.375	60.0	100.0	4.	2		
74	38.375	60.0	83.8	5	2		
26.5	50.625	60.0	100.0	2	2		
37	50.625	60.0	100.0	3	2		
53.125	50.625	60,0	77.0	4	2 .		
74	50.625	60.0	63.6	5	2		
26.5	58	60,0	100.0	3	2		
37	58	60.0	88.7	3	3		
53,125	58	60.0	67.1	4	2		
74	58	53.7	53.7	4	3		
26,5	63	60.0	100.0	3	2		
37	63	60.0	80,5	3	2		
53.125	63	60.0	60.6	4	2		
74	63	48.3	48.3	4	2		
24	24	60.0	100.0	2	2		
36	24	60.0	100.0	2	2		
48	24	60.0	100.0	3	2		
60	24	60.0	100.0	3	2		
72	24	60.0	100.0	4	2		
24	36	60.0	100,0	2	2		
36	36	60.0	100.0	3	2		
48	36	60.0	100.0	3	2		
60	36	60,0	94.8	4	2		
72	36	60,0	88.1	5	2		
24	48	60.0	100.0	2	2		
36	48	60,0	100.0	3	2		
48	48	60,0	89.7	4	2		
60	48	60.0	76.0	4	2		
72	48	60.0	69.5	5	2		
24	60	60.0	100.0	2	2		
36	60	60	87.2	3	3		
48	60	60	69.5	3	2		
60	60	56.7	56.7	4	2		
72	60	51,6	51,6	4	2		

	00,120		7,0	100.0		***
	74	26	73.3	100.0	5	2
	26,5	38,375	73,3	100.0	2	2
	37	38.375	73.3	100.0	3	2
	53.125	38.375	73.3	100.0	4	2
	74	38.375	73.3	83.8	5	
١	26.5	50.625	73.3	100.0	2 3.	2
1	37	50,625	73.3	100.0		2
1	53.125	50.625	73.3	77.0	4	2
1	74	50.625	63.6	63.6	5	2
	26,5	58	73,3	100.0	3	2
	37	58	73,3	88.7	3	2
	53,125	58	67.1	67.1	4	·2 2
	74	58	53.7	53.7	4	2
	26.5	63	73.3	100,0	3	2 2 2
	37	63	73,3	80.5	3	2
	53.125	63	60.6	60.6	4	
	74	63	48.3	48.3	4	2 2 2
	24	- 24	73.3	100.0	2	2
	36	24	73.3	100.0		2
	48	24	73.3	100.0	3	2
-	60	. 24	73.3	100.0	3	2
	72	24	73.3	100.0	4	2 2
	24	36	73.3	100.0	2	2
	36	36	73.3	100.0		
	48	36	73.3	100.0	3	2
	60	36	73.3	94.8	4	2
	72	36	73.3	88.1	5	2
	24	48	73.3	100.0	2	2
ļ	36	48	73.3	100,0	3	2
	48	48	73.3	89.7	4	2
-	60	48	73.3	76.0	4	2
	72	48	69.5	69.5	- 5	2
	24	60	73.3	100.0	2 3	2 3
	36	60	73.3	87.2		3
	48	60	69.5	69.5	3	2
	60	60	56.7	56.7	4	2 2
	72	60	51.6	51.6	4	2

Test #FTL 4456 - 3/16" Annealed Flange Frame (XO or OX)

W/ HEAVY DUTY MEETING RAIL & HI-RISE SILL

73.3

73.3

73,3

26.5

26

26

26

psf

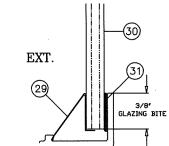
100.0

100.0

100.0

Anchors

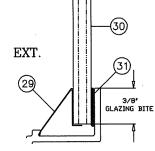
Head & Sill Each Jamb



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

GLAZING DETAIL

HEIGHTS EXTERIOR Note:



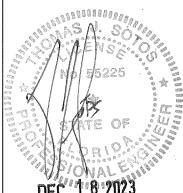
CWS 320 ALUMINUM FLANGE FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

OCALA, FLORIDA 34474

www.cws.cc

	TI	ОМ	A 6'	J. 9	SOT		ž	
						⋖	.:	
	A.C.						NO.: DESCRIPTION:	OINCIOI/\III
***************************************						-	BY:	
		-	-				DATE:	

PROFESSIONAL ENGINEER FL LIC. # 55225 SEAL



SHEET DESCRIPTION

AS NOTED

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

	DRAWN BY:	DATE:	
	NELSON ERAZO	11/17	7/2023
	REV. BY:	DATE:	
•			
	DWG #:		REV #:
<u>)</u>	CWS-1226		
	SCALE:	SH	EET

5 OF 9

Miami-Dade Product Control

# Test #FTL 4553 - 3/16" Annealed Flange Frame (XO or OX)

w/ STANDARD MEETING RAIL & STANDARD SILL								
Width	Width Height DP(+) DP(-) Anchors							
(in)	(in)	psf	psf	Head & Sill	Each Jamb			
26.5	26	60.0	100.0	2	2			
37	26	60.0	100.0	2	2			
53.125	26	60,0	100.0	3	2			
74	26	60.0	100.0	5	2			
26.5	38.375	60.0	100.0	2	2			
37	38.375	60.0	100.0	3	2			
53,125	38,375	60,0	83.8	4	2			
74	38.375	60,0	76.0	5	2			
26,5	50,625	60.0	95.8	2	2			
37	50,625	60,0	73.0	3	2			
53,125	50,625	56.3	56.3	3	2			
74	50,625	47.0	47,0	4	2			
24	24	60,0	100.0	2	2			
36	24	60.0	100.0	2	2			
48	24	60,0	100.0	3	2			
60	24	60.0	100.0	3	2			
72	24	60,0	100.0	4	2			
24	36	60.0	100.0	2	2			
36	36	60.0	100.0	3 .	2			
48	36	60,0	97.0	3	2			
60	36	60.0	88.7	4	2			
72	36	60.0	86.2	5	2			
24	48	60.0	100.0	2	2			
36	48	60.0	79,6	3	2			
48	48	60.0	64.7	3	2			
60	48	56,4	56.4	3	2			
72	48	51.7	51.7	4	2			

Pressure Limited to Negative 100psf.

Test #FTL 4553 - 3/16" Annealed Flange Frame (XO or OX
W/ STANDARD MEETING RAIL & HI-RISE SILL

Pressure Limited to Negative 100psf

			VIII.	HI-RISE SILL			
Width	Height	DP(+)	DP(-)		hors		
(in)	(in)	psf	psf	Head & Sill	Each Jamb		
26.5	26	73.3	100.0	2	2		
37	26	73.3	100.0	2 2 3	2		
53.125	26	73.3	100.0		2		
74	26	73.3	100.0	5	2		
26.5	38.375	73.3	100.0	2	. 2		
37	38.375	73.3	100.0	3	2		
53,125	38,375	73,3	83,8	4	2		
74	38,375	73,3	76.0	5			
26,5	50.625	73.3	95,8	2	2		
37	50,625	73.0	73.0	3	2		
53.125	50.625	56.3	56.3	3	2		
74	50,625	47.0	47.0	4	2		
24	24	73.3	100.0	2	2		
36	- 24	73.3	100.0				
48	24	73.3	100,0	3	2		
60	24	73.3	100.0	3			
72	24	73,3	100,0	4	2		
24	36	73.3	100.0	<u>2</u> 3	2		
36	36	73.3	100.0	3	2		
48	36	73,3	97.0	3	2		
60	36	73.3	88.7	4	2 2		
72	36	. 73,3	86,2	5			
24	48	73.3	100.0	2	2		
36	48	73.3	79.6	3	2		
48	48	64.7	64.7	3	· 2 2		
60	48	56.4	56.4	3	2		
72	48	51.7	51.7	4	2		

Pressure Limited to Negative 100psf.

#### Test # FTL 4547 - 1/8" Annealed Flange Frame ( XO or OX ) w/ STANDARD MEETING RAIL & STANDARD SILL

Pressure Limited to Negative 100psf

Width	Height	DP(+)	DP(-)	Anchors	
(in)	(in)	psf	psf	Head & Sill	Each Jamb
26.5	26	60.0	100.0	2	2
37	26	60.0	100.0	2	2
53.125	26	60,0	92.5	3	2
74	26	60.0	67.7	3	2
26.5	38.375	60.0	100.0	2	2
37	38.375	60.0	76.9	2	2
53,125	38.375	60.0	65,2	3	. 2
74	38.375	51.7	51.7	3	2
26,5	50,625	60.0	79.7	2	2
37	50.625	60,0	60.7	2	2
53.125	50.625	44.6	44.6	2	2
74	50.625	39.1	39.1	3	2
24	24	60.0	100.0	2	2
36	24	60.0	100.0	2	2
48	24	60.0	100,0	3	2
60	24	60.0	87.3	3	2
72	24	60.0	72.0	3	2
24	36	60.0	100.0	2	2
36	36	60.0	84.0	2	2
48	36	60.0	73.9	3	2 2
60	36	60.0	65.7	3	
72	36	56.4	56.4	3	2
24	48	60.0	92.2	2	2
36	48	60.0	66,2	2	2
48	48	49.0	49.0	2	2
60	48	46.9	46.9	3	
72	48	42.9	42.9	3	2

#### 26.5 100.0 26 73.3 37 100.0 73.3 92.5 74 26 67.7 67.7 26.5 38.375 73.3 100.0 37 38 375 73.3 76.9 53,125 38,375 65.2 65,2 74 51.7 51.7 2 38 375 26.5 73.3 79.7 50.625 37 50.625 60.7 60.7 53.125 50.625 44.6 44.6 74 50,625 39.1 24 73.3 100.0 36 24 73.3 100.0 48 24 73.3 100.0 60 24 73.3 87.3 3 72 24 72.0 72.0 24 73.3 100.0 36 36 84.0 48

73.9

65.7

56.4

66,2

49.0

46.9

42.9

2

3

2

2

Pressure Limited to Negative 100psf.

Test # FTL 4547 - 1/8" Annealed Flange Frame ( XO or OX )

w/ STANDARD MEETING RAIL & HI-RISE SILL

DP(-)

psf

Head & Sill Each Jamb

DP(+)

psf

36

36

48

48

48

48

48

60

72

24

36

48

60

72

73.3

65.7

56.4

66.2

49.0

46.9

42.9

Pressure Limited to Negative 100psf.

**PRODUCT REVISED** As complying with the Florida Building Code NOA-No. **Expiration Date: 01/26/2026** 

24-0116.16

By: Manuel Peres

320 N	on Impact	Horizontal	Sliding W	indow (XO or OX)
Test#H	ETI-08-2158	th ru 08-2160	- 1/8" Tem	pered Flange Frame
w/H	EAVY DUT	Y MEETING	RAIL & S	TAND ARD SILL
Width	Height	DP(+)	DP(-)	Anchors

w/HEAVY DUTY MEETING RAIL & STANDARD SILL							
Width	Height	DP(+)	DP(-)	Anc	hors		
(in)	(in )	psf	psf	Head & Sill	Each Jamb		
26.5	26	60.0	100.0	2	2		
37	26	60.0	100.0	2	2		
53.125	26	60.0	100.0	3	2		
74	26	60.0	100.0	5	2		
26.5	38.375	60.0	100.0	2	2		
37	38.375	60.0	100.0	3	2		
53.125	38.375	60.0	100.0	4	2		
74	38.375	60.0	10 0.0	6	2		
26.5	50.625	60.0	100.0	2	2		
37	50.625	60.0	100.0	3	2		
53.125	50.625	60.0	93.0	4	3		
74	50,625	60.0	77.6	5	3		
26.5	58	60.0	100.0	3	2		
37	58	60.0	100.0	4	3		
53.125	58	60.0	77.6	4	3		
74	58	60.0	63.1	5	3		
26.5	63	60.0	100.0	3	2		
37	63	60.0	92.7	4	3		
53,125	63°	60.0	69.8	4	3		
74	63	56.0	56.0	5	3		
24	24	60.0	100.0	2	2		
36	24	60.0	100.0	2	2		
48	24	60.0	100.0	3	2		
60	24	60.0	100.0	3	2		
72	24	60.0	100.0	4	2		
24	36	60.0	100.0	. 2	2		
36	36	60.0	100.0	3	2		
48	36	60.0	100.0	3	2		
60	36	60,0	100.0	4	2		
72	36	60.0	100.0	5	2		
24	48	60.0	100.0	2	2		
36	48	60.0	100.0	3	2		
48	48	60.0	100.0	4	3		
60	48	60.0	93.1	5	3		
72	48	60.0	85.4	6	3		
24	60	60.0	100.0	2	2		
36	60	60.0	100.0	4	3		
48	60	60.0	80.0	4	3		
60	60	60.0	68.3	4	3		

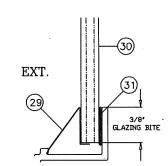
320 Non Impact Horizontal Sliding Window (XO or OX)	
Test # HETI-08-2158 thru 08-2160 - 1/8" Tem pered Flange Frame	+
W/ HEAVY DUTY MEETING RAIL & HI-RISE SILL	

w/ HEAVY DUTY MEETING RAIL & HI-RISE SILL							
Width	Height	DP(+)	DP(-)	Anc	hors		
(in)	(in)	psf	psf	Head & Sill	Each Jam b		
26.5	- 26	73.3	100.0	2	2		
37	26	73.3	100.0	2	2		
53.125	26	73,3	100.0	. 3	2		
74	26	73.3	100.0	5	2		
26.5	38.375	73.3	100.0	2	2		
37	38.375	73.3	100.0	3	2		
53.125	38.375	73.3	100.0	4	2		
74	38,375	73.3	100.0	6	2		
26.5	50.625	73.3	100.0	2	2		
37	50.625	73.3	100.0	3	2		
53.125	50.625	73.3	93.0	4	3		
74	50.625	73.3	77.6	5	3		
26.5	58	73.3	100.0	3	2		
37	58	73.3	100.0	4	3		
53.125	58	73.3	77.6	4	3		
74	58	63.1	63.1	5	3		
26.5	63	73.3	100.0	3	2		
37	63	73.3	92.7	4	3		
53.125	63	69.8	69.8	4	3		
74	63	56.0	56.0	5	3		
24	24	73.3	100.0	2	2		
36	24	73.3	100.0	2	2		
48	24	73.3	100,0	3	2		
60	24	73.3	100.0	3	2		
72	24	73.3	100.0	4	2		
24	36	73.3	100.0	2	2 ·		
36	36	73.3	100.0	3	2		
48	36	73.3	100.0	3	2		
60	36	73.3	100.0	4	2		
72	36	73.3	100.0	5	2		
24	48	73.3	100,0	2	2 2		
36	48	73.3	100.0	3			
48	48	73.3	100.0	4	3		
60	48	73.3	93.1	5	3		
72	48	73.3	85.4	6	3		
24	60	73.3	100.0	2	2		
36	60	73.3	100.0	4	3		
48	60	73.3	80.0	4	3		
60	60	68.3	68.3	4	3		
72	60 <sup>-</sup>	61.0	-61.0	5	3		

Pressure Limited to Negative 100psf.

Pressure Limited to Negative 100psf.

#### Note:



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

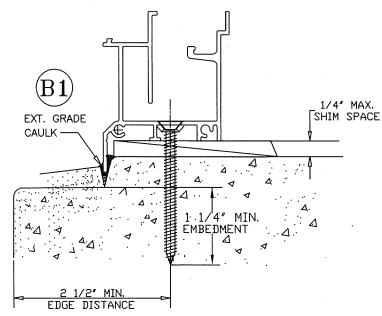
MONOLITHIC GLASS - SINGLE GLAZE ANNEALED OR TEMPERED 1/8", 3/16" OR 1/4" THICK (SEE DESIGN PRESSURE TABLES)

GLAZING DETAIL & DESCRIPTION

PRODUCT REVISED As complying with the Florida Building Code NOA-No. 24-0116.16 **Expiration Date: 01/26/2026** 

By: Manuel Peres

Miami-Dade Product Control

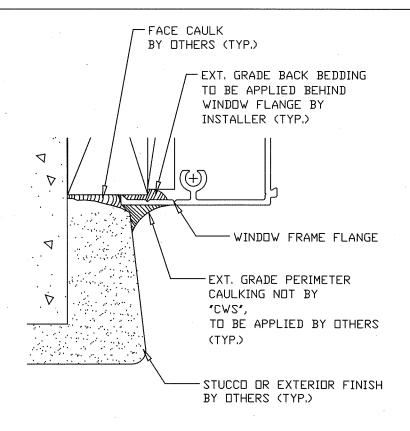


## OPTIONAL SILL INSTALLATION DETAIL

## ANCHORS NOTE:

ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR 1/4' TAPCONS or APPROVED CONC. FASTENERS INTO CONC., WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)

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



WINDOW INSTALLATION DETAIL



OCALA, FLORIDA 34474 WWW.CWS.CC

**CWS 320 ALUMINUM** FLANGE FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW

 THOMAS I COTOS								
						А	NO.:	
					-		NO.: DESCRIPTION:	REVISIONS
		-					BY:	
	-						BY: DATE:	

THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225



GLASS LOAD CHARTS. GLAZING DETAIL, OPTIONAL INSTALLATION DETAIL

DRAWN BY:	DATE:	
NELSON ERAZO	11/17	7/2023
REV. BY:	DATE:	
		·
DWG #:		REV #:
CWS-1226		
SCALE:	SH	EET

6 OF 9

AS NOTED

Test # FTL 4429 - 1/4" Annealed Flange Frame ( XOX ) w/ HEAVY DUTY MEETING RAIL & STANDARD SILL						
Width	Height DP(+) DP(-) Anchors					
(in)	(in)	psf	psf	Head & Sill	Each Jamb	
53,125	26	60.0	100.0	3	2	
74	26	60,0	100,0	5	2	
106,375	26	60.0	100.0	7	2	
111	26	60,0	100.0	7	2	
53,125	38,375	60,0	100.0	4	2	
74	38.375	60.0	100.0	6	2	
106,375	38.375	60.0	76.9	7	2	
111	38.375	60.0	73.1	7	2	
53.125	50.625	60.0	100.0	6	2	
74	50,625	60.0	81.9	6	2	
106.375	50.625	60.0	65,0	7	2	
111	50.625	60.0	61.9	7	2	
53,125	58	60.0	90.8	6	2	
74	58	60,0	70.3	6	2	
106,375	58	57,2	57.2	7	2	
111	58	55,5	55,5	8	2	
53,125	63	60.0	82.1	6	2	
74	63	60.0	62.5	6	2	
106,375	63	52,1	52,1	7	2	
111	63	51.1	51,1	- 8	2	
72	24	60,0	100,0	.4	2	
84	24	60.0	100.0	5	2	
96	24	60.0	100.0	6	2	
108	24	60.0	100.0	6	2	
120	24	60.0	100.0	7	2	
72	36	60.0	100.0	6	2	
84	36	60.0	94.4	6	2	
96	36	60,0	87.0	7	2	
108	36	60,0	78.6	7	2	
120	36	60.0	68.5	7	2	
72	48	60,0	87,2	6	2	
84	48	60.0	80.3	7	2	
96	48	60.0	74.3	7	2	
108	48	60.0	66.4	7	2	
120	48	59.3	59.3	8	2	
72	60	60.0	69.2	6	2	
84	60	60	61.5	6	2	
96	60	58.6	58.6	7	2	
108	60	54.8	54.8	8	2	
120	60	51	. 51	8	2	

Test # FTL 4429 - 1/4" Annealed Flange Frame ( XOX ) w/ HEAVY DUTY MEETING RAIL & HI-RISE SILL									ge Frame ( XOX ) TANDARD SILL
Width	Height	DP(+)	DP(-)	Anchors	Width	Height	DP(+)	DP(-)	Anchors
					<b>.</b>		I	_	

Width	Test # FTL 4429 - 1/4" Annealed Flange Frame ( XOX )  w/ HEAVY DUTY MEETING RAIL & HI-RISE SILL					Test # FTL 4457 - 3/16" Annealed Flange Frame (XOX)  W/ HEAVY DUTY MEETING RAIL & STANDARD SILL						
(in)         (in)         psf         Head & Sill         Each Jamb         (in)         (in)         psf         psf         Head & Sill         Each Jamb           53.125         26         73.3         100.0         3         2         53.125         26         60.0         100.0         3         2           106.375         26         73.3         100.0         7         2         106.375         28         60.0         181.6         5         2           111         26         73.3         100.0         7         2         111         26         60.0         79.0         5         2           53.125         38.375         73.3         100.0         4         2         53.125         38.375         73.3         100.0         6         2         74         38.375         60.0         160.0         6         2         164.375         38.375         60.0         61.6         6         2         2         164.375         38.375         60.0         61.6         6         2         111         38.375         73.3         170.1         7         2         116.375         38.375         60.0         61.6         2         111				A STATE OF THE PARTY OF THE PAR		CONTROL CONTRO			THE RESERVE OF THE PARTY OF THE	the state of the s		
74         26         73.3         100.0         5         2         74         26         60.0         100.0         5         2           106.375         26         73.3         100.0         7         2         106.375         26         60.0         81.6         5         2           111         26         73.3         100.0         7         2         111         26         60.0         79.0         5         2           53.125         38.375         73.3         100.0         6         2         74         38.375         60.0         100.0         4         2           106.375         38.375         73.3         100.0         6         2         74         38.375         60.0         61.6         6         2           111         38.375         73.1         73.1         7         2         111         38.375         60.0         61.6         6         2           53.125         50.625         73.3         100.0         6         2         53.125         50.625         60.0         86.7         5         2           106.375         50.625         65.0         65.0         7 <td< th=""><th></th><th></th><th></th><th></th><th>Head &amp; Sill</th><th>Each Jamb</th><th></th><th></th><th></th><th></th><th>Head &amp; Sill</th><th>Each Jamb</th></td<>					Head & Sill	Each Jamb					Head & Sill	Each Jamb
74         26         73.3         100.0         5         2         74         26         60.0         100.0         5         2           106.375         26         73.3         100.0         7         2         106.375         26         60.0         81.6         5         2           111         26         73.3         100.0         7         2         111         26         60.0         79.0         5         2           53.125         38.375         73.3         100.0         6         2         74         38.375         60.0         100.0         4         2           106.375         38.375         73.3         100.0         6         2         74         38.375         60.0         61.6         6         2           111         38.375         73.1         73.1         7         2         111         38.375         60.0         61.6         6         2           53.125         50.625         73.3         190.0         6         2         53.125         50.625         60.0         86.7         5         2           106.375         50.625         65.0         7         2         10	53.125	. 26	73.3	100.0	3	2	53,125	26	60.0	100.0	3	2
111         26         73.3         100.0         7         2         111         26         60.0         79.0         5         2           53.125         38.375         73.3         100.0         4         2         53.125         38.375         60.0         100.0         4         2           74         38.375         73.3         100.0         6         2         74         38.375         60.0         86.0         5         2           106.375         38.375         73.3         170.0         6         2         74         38.375         60.0         61.6         6         2           111         38.375         73.1         73.1         7         2         111         38.375         60.0         61.6         6         2           53.125         50.625         73.3         100.0         6         2         53.125         50.625         60.0         86.5         5         2           74         50.625         66.0         65.0         7         2         106.375         50.625         60.0         86.7         5         2           106.375         50.625         61.9         61.9         7 <td></td> <td>26</td> <td>73,3</td> <td>100,0</td> <td>5</td> <td>2</td> <td>74</td> <td></td> <td>60.0</td> <td>100,0</td> <td></td> <td></td>		26	73,3	100,0	5	2	74		60.0	100,0		
53,125         38,375         73,3         100,0         4         2         53,125         38,375         60,0         100,0         4         2           74         38,375         73,3         100,0         6         2         74         38,375         60,0         86,0         5         2           106,375         38,375         73,1         73,1         7         2         111         38,375         58,7         58,7         6         2           53,125         50,625         73,3         100,0         6         2         53,125         50,625         60,0         86,5         5         2           53,125         50,625         73,3         100,0         6         2         53,125         50,625         60,0         86,5         5         2           74         50,625         66,0         65,0         7         2         106,375         50,625         60,0         65,7         5         2           111         50,625         66,0         65,0         7         2         111         50,625         50,3         50,3         6         2           53,125         58         73,3         90,8	106,375	26	73,3	100.0	7	2	106.375	26	60.0	81.6	5	2
74         38.375         73.3         100.0         6         2         74         38.375         60.0         86.0         5         2           106,375         38.375         73.3         76.9         7         2         106,375         38.375         60.0         61.6         6         2           111         38.375         73.1         73.1         7         2         111         38.375         58.7         6         2           53.125         50.625         73.3         100.0         6         2         53.125         50.625         60.0         86.5         5         2           74         50.625         65.0         65.0         7         2         111         50.625         60.0         65.7         5         2           106.375         50.625         60.0         65.0         7         2         111         50.625         60.0         65.7         5         2           106.375         58.6         61.9         61.9         61.9         7         2         111         50.625         50.3         50.3         6         2           74         58         73.3         70.3         6	111	26	73.3	100.0	7	2	111		60.0	79.0	5	2
106.375         38.375         73.3         76.9         7         2         106.375         38.375         60.0         61.6         6         2           111         38.375         73.1         73.1         7         2         111         38.375         58.7         6         2           53.125         50.625         73.3         100.0         6         2         53.125         50.625         60.0         86.5         5         2           74         50.625         73.3         81.9         6         2         74         50.625         60.0         65.7         5         2           106.375         50.625         65.0         65.0         7         2         106.375         50.625         50.3         50.3         6         2           111         50.625         61.9         61.9         7         2         111         50.625         50.3         50.3         6         2           53.125         58         73.3         90.8         6         2         53.125         58         60.0         79.4         5         2           106.375         58         57.2         57.2         7         2	53,125	38,375	73,3	100,0	4	2	53.125	38.375	60.0	100,0	4	2
111         38.375         73.1         73.1         7         2         111         38.375         58.7         58.7         6         2           53.125         50.625         73.3         100.0         6         2         53.125         50.625         60.0         86.5         5         2           74         50.625         63.0         65.0         7         2         106.375         50.625         52.3         52.3         6         2           111         50.625         65.0         65.0         7         2         111         50.625         52.3         52.3         6         2           111         50.625         61.9         61.9         7         2         111         50.625         50.3         50.3         6         2           53.125         58         70.3         70.3         6         2         74         58         50.3         50.3         6         2           53.125         58         70.3         70.3         6         2         74         58         54.6         54.6         5         2           106.375         58         57.2         57.2         7         2	74	38.375	73.3	100.0	6 .	2	74	38.375	60.0	86.0	5	2
111         38.375         73.1         73.1         7         2         111         38.375         58.7         58.7         6         2           53.125         50.625         73.3         100.0         6         2         53.125         50.625         60.0         86.5         5         2           74         50.625         65.0         65.0         7         2         106.375         50.625         52.3         52.3         6         2           111         50.625         65.0         65.0         7         2         111         50.625         52.3         52.3         6         2           53.125         58         73.3         90.8         6         2         53.125         58         60.0         79.4         5         2           53.125         58         70.3         70.3         6         2         74         58         50.3         50.3         6         2           111         58         55.5         55.5         8         2         111         58         54.5         6         2           111         58         55.5         55.5         8         2         111	106,375	38,375	73.3	76.9	7	2	106,375		60.0	61.6	6	2
53.125         50.625         73.3         100.0         6         2         53.125         50.625         60.0         86.5         5         2           74         50.625         73.3         81.9         6         2         74         50.625         60.0         65.7         5         2           106.375         50.625         65.0         65.0         7         2         106.375         50.625         52.3         52.3         6         2           111         50.625         61.9         61.9         7         2         111         50.625         50.3         50.3         6         2           53.125         58         73.3         90.8         6         2         53.125         58         60.0         79.4         5         2           74         58         70.3         70.3         6         2         74         58         54.6         54.6         5         2           106.375         58         57.2         57.2         7         2         106.375         58         46.5         46.5         6         2           53.125         63         52.1         7         2         106.375	111	38.375	73.1	73.1	7		111	38.375		58.7	6	
74         50.625         73.3         81.9         6         2         74         50.625         60.0         65.7         5         2           106,375         50.625         66.0         66.0         7         2         106,375         50.625         52.3         52.3         6         2           111         50.625         66.0         61.9         7         2         111         50.625         50.3         50.3         6         2           53.125         58         73.3         90.8         6         2         53.125         58         60.0         79.4         5         2           74         58         70.3         70.3         6         2         74         58         54.6         54.6         5         2           106,375         58         57.2         57.2         7         2         106,375         58         46.5         46.5         6         2           111         58         55.5         55.5         8         2         111         58         44.9         44.9         6         2           33125         63         73.3         82.1         7         2         1	53.125		73.3	100.0	6	2	53.125	50.625	60.0	86.5	5	2
111         50.625         61.9         61.9         7         2         111         50.625         50.3         50.3         6         2           53.125         58         73.3         90.8         6         2         53.125         58         60.0         79.4         5         2           74         58         70.3         70.3         6         2         74         58         54.6         54.6         5         2           106.375         58         57.2         57.2         7         2         106.375         58         46.5         46.5         6         2           111         58         55.5         55.5         55.5         8         2         111         58         44.9         44.9         6         2           53.125         63         73.3         82.1         6         2         53.125         63         60.0         72.0         5         2           74         63         62.5         62.5         6         2         74         63         49.2         49.2         5         2           106.375         63         52.1         52.1         7         2	74	50.625	73.3		6	2	74	50.625	60.0	65.7	5	2
53.125         58         73.3         90.8         6         2         53.125         58         60.0         79.4         5         2           74         58         70.3         70.3         6         2         74         58         54.6         54.6         5         2           106.375         58         57.2         57.2         7         2         106.375         58         46.5         46.5         6         2           111         58         55.5         55.5         8         2         111         58         44.9         44.9         6         2           13125         63         73.3         82.1         6         2         53.125         63         60.0         72.0         5         2           74         63         62.5         62.5         6         2         74         63         49.2         49.2         5         2           106.375         63         52.1         52.1         7         2         106.375         63         42.9         42.9         6         2           111         63         51.1         51.1         8         2         111         6	106.375	50,625	65.0	65.0	7	2	106.375	50.625	52.3	52.3	6	2
74         58         70.3         70.3         6         2         74         58         54.6         54.6         5         2           106.375         58         57.2         57.2         7         2         106.375         58         46.5         46.5         6         2           111         58         55.5         55.5         8         2         111         58         44.9         44.9         6         2           53.125         63         73.3         82.1         6         2         53.125         63         60.0         72.0         5         2           74         63         62.5         66         2         74         63         49.2         49.2         5         2           106,375         63         52.1         52.1         7         2         106.375         63         49.2         49.2         5         2           111         63         51.1         51.1         8         2         111         63         41.3         41.3         41.3         6         2           72         24         73.3         100.0         4         2         72         24 <td>111</td> <td>50.625</td> <td>61.9</td> <td>61.9</td> <td>7</td> <td>2</td> <td>111</td> <td>50.625</td> <td>50.3</td> <td>50,3</td> <td>6</td> <td>2</td>	111	50.625	61.9	61.9	7	2	111	50.625	50.3	50,3	6	2
106.375         58         57.2         57.2         7         2         106.375         58         46.5         6         2           111         58         55.5         55.5         8         2         111         58         44.9         44.9         6         2           53.125         63         73.3         82.1         6         2         53.125         63         60.0         72.0         5         2           74         63         62.5         62.5         6         2         74         63         49.2         49.2         5         2           106.375         63         52.1         52.1         7         2         106.375         63         42.9         42.9         6         2           111         63         51.1         51.1         8         2         111         63         41.3         41.3         6         2           72         24         73.3         100.0         4         2         72         24         60.0         100.0         4         2           84         24         73.3         100.0         6         2         96         24         60.0 <td>53.125</td> <td>58</td> <td>73.3</td> <td>90.8</td> <td>6</td> <td>2</td> <td>53.125</td> <td>58</td> <td>60.0</td> <td>79.4</td> <td>5</td> <td>2</td>	53.125	58	73.3	90.8	6	2	53.125	58	60.0	79.4	5	2
111         58         55.5         55.5         8         2         111         58         44.9         44.9         6         2           53.125         63         73.3         82.1         6         2         53.125         63         60.0         72.0         5         2           74         63         62.5         62.5         6         2         74         63         49.2         49.2         5         2           106.375         63         52.1         52.1         7         2         106.375         63         42.9         42.9         6         2           111         63         51.1         51.1         8         2         111         63         41.3         41.3         6         2           72         24         73.3         100.0         4         2         72         24         60.0         100.0         4         2           84         24         73.3         100.0         5         2         84         24         60.0         100.0         5         2           96         24         73.3         100.0         6         2         108         24	74	58	70.3	70.3	6	2	74	58	54.6	54.6	5	2
111         58         55.5         55.5         8         2         111         58         44.9         44.9         6         2           53.125         63         73.3         82.1         6         2         53.125         63         60.0         72.0         5         2           74         63         62.5         62.5         6         2         74         63         49.2         49.2         5         2           106.375         63         52.1         52.1         7         2         106.375         63         42.9         42.9         6         2           111         63         51.1         51.1         8         2         111         63         41.3         41.3         6         2           72         24         73.3         100.0         4         2         72         24         60.0         100.0         4         2           84         24         73.3         100.0         5         2         84         24         60.0         100.0         5         2           108         24         73.3         100.0         6         2         108         24	106,375	58	57.2	57.2	7	2	106,375	58	46.5	46.5	6	2
53.125         63         73.3         82.1         6         2         53.125         63         60.0         72.0         5         2           74         63         62:5         62.5         6         2         74         63         49.2         49.2         5         2           106.375         63         52.1         52.1         7         2         106.375         63         42.9         42.9         6         2           111         63         51.1         51.1         8         2         111         63         41.3         41.3         40.0         2           72         24         73.3         100.0         4         2         72         24         60.0         100.0         4         2           84         24         73.3         100.0         5         2         84         24         60.0         100.0         5         2           96         24         73.3         100.0         6         2         96         24         60.0         90.5         6         2           120         24         73.3         100.0         7         2         120         24		58			8		111	58	44,9	44.9	6	
74         63         62:5         62.5         6         2         74         63         49.2         49.2         5         2           106.375         63         52.1         52.1         7         2         106.375         63         42.9         42.9         6         2           111         63         51.1         51.1         8         2         111         63         41.3         41.3         41.3         6         2           72         24         73.3         100.0         4         2         72         24         60.0         100.0         4         2           84         24         73.3         100.0         5         2         84         24         60.0         100.0         5         2           96         24         73.3         100.0         6         2         96         24         60.0         95.3         5         2           108         24         73.3         100.0         6         2         108         24         60.0         95.3         5         2           120         24         73.3         100.0         6         2         72	53,125	63			6	2	53,125	63	60,0	72.0	5	2
106,375         63         52.1         52.1         7         2         106,375         63         42.9         42.9         6         2           111         63         51.1         51.1         8         2         111         63         41.3         41.3         6         2           72         24         73.3         100.0         4         2         72         24         60.0         100.0         4         2           84         24         73.3         100.0         5         2         84         24         60.0         100.0         5         2           96         24         73.3         100.0         6         2         96         24         60.0         95.3         5         2           108         24         73.3         100.0         6         2         108         24         60.0         90.5         6         2           120         24         73.3         100.0         7         2         120         24         60.0         99.5         6         2           72         36         73.3         100.0         6         2         72         36								63	49.2	49.2		
72         24         73.3         100.0         4         2         72         24         60.0         100.0         4         2           84         24         73.3         100.0         5         2         84         24         60.0         100.0         5         2           96         24         73.3         100.0         6         2         96         24         60.0         95.3         5         2           108         24         73.3         100.0         6         2         108         24         60.0         90.5         6         2           120         24         73.3         100.0         7         2         120         24         60.0         90.5         6         2           120         24         73.3         100.0         6         2         72         36         60.0         85.3         6         2           72         36         73.3         100.0         6         2         72         36         60.0         85.3         6         2           84         36         73.3         87.0         7         2         96         36         60.0 </td <td>106,375</td> <td>63</td> <td>52.1</td> <td></td> <td>7</td> <td>2</td> <td>106,375</td> <td>63</td> <td>42,9</td> <td>42,9</td> <td>6</td> <td>2</td>	106,375	63	52.1		7	2	106,375	63	42,9	42,9	6	2
72         24         73.3         100.0         4         2         72         24         60.0         100.0         4         2           84         24         73.3         100.0         5         2         84         24         60.0         100.0         5         2           96         24         73.3         100.0         6         2         96         24         60.0         95.3         5         2           108         24         73.3         100.0         6         2         108         24         60.0         95.3         5         2           120         24         73.3         100.0         7         2         120         24         60.0         95.3         6         2           120         24         73.3         100.0         7         2         120         24         60.0         85.3         6         2           72         36         73.3         100.0         6         2         72         36         60.0         85.3         6         2           84         36         73.3         87.0         7         2         96         36         60.0<	111	63		51.1	8	2	The second secon	63	41.3	41.3	. 6	2
84         24         73.3         100.0         5         2         84         24         60.0         100.0         5         2           96         24         73.3         100.0         6         2         96         24         60.0         95.3         5         2           108         24         73.3         100.0         6         2         108         24         60.0         90.5         6         2           120         24         73.3         100.0         7         2         120         24         60.0         90.5         6         2           72         36         73.3         100.0         6         2         72         36         60.0         91.2         5         2           84         36         73.3         94.4         6         2         84         36         60.0         91.2         5         2           96         36         73.3         87.0         7         2         96         36         60.0         74.2         6         2           108         36         73.3         78.6         7         2         108         36         60.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>100.0</td> <td>4</td> <td></td>										100.0	4	
96         24         73.3         100.0         6         2         96         24         60.0         95.3         5         2           108         24         73.3         100.0         6         2         108         24         60.0         90.5         6         2           120         24         73.3         100.0         7         2         120         24         60.0         85.3         6         2           72         36         73.3         100.0         6         2         72         36         60.0         91.2         5         2           84         36         73.3         94.4         6         2         84         36         60.0         91.2         5         2           96         36         73.3         87.0         7         2         96         36         60.0         74.2         6         2           108         36         73.3         78.6         7         2         108         36         60.0         74.2         6         2           120         36         68.5         68.5         7         2         120         36         53.3 <td>84</td> <td>24</td> <td></td> <td></td> <td>5</td> <td>2</td> <td>84</td> <td>24</td> <td>60.0</td> <td>100.0</td> <td>5</td> <td>2</td>	84	24			5	2	84	24	60.0	100.0	5	2
108         24         73.3         100.0         6         2         108         24         60.0         90.5         6         2           120         24         73.3         100.0         7         2         120         24         60.0         85.3         6         2           72         36         73.3         100.0         6         2         72         36         60.0         91.2         5         2           84         36         73.3         94.4         6         2         84         36         60.0         82.0         5         2           96         36         73.3         87.0         7         2         96         36         60.0         74.2         6         2           108         36         73.3         78.6         7         2         108         36         60.0         74.2         6         2           120         36         68.5         68.5         7         2         120         36         53.3         53.3         6         2           72         48         73.3         87.2         6         2         72         48         60.0	96	24	73.3		6		96	24	60.0	95.3	5	2
120         24         73.3         100.0         7         2         120         24         60.0         85.3         6         2           72         36         73.3         100.0         6         2         72         36         60.0         91.2         5         2           84         36         73.3         94.4         6         2         84         36         60.0         82.0         5         2           96         36         73.3         87.0         7         2         96         36         60.0         74.2         6         2           108         36         73.3         78.6         7         2         108         36         60.0         74.2         6         2           120         36         68.5         68.5         7         2         120         36         53.3         53.3         6         2           72         48         73.3         87.2         6         2         72         48         60.0         71.3         5         2           84         48         73.3         80.3         7         2         84         48         60.0	108	24	73.3	100.0	6		108		60.0	90.5	6	
72         36         73.3         100.0         6         2         72         36         60.0         91.2         5         2           84         36         73.3         94.4         6         2         84         36         60.0         82.0         5         2           96         36         73.3         87.0         7         2         96         36         60.0         74.2         6         2           108         36         73.3         78.6         7         2         108         36         60.0         62.0         6         2           120         36         68.5         68.5         7         2         120         36         53.3         53.3         6         2           72         48         73.3         87.2         6         2         72         48         60.0         71.3         5         2           84         48         73.3         80.3         7         2         84         48         60.0         65.8         6         2           96         48         73.3         74.3         7         2         84         48         60.0	120	24		100.0	7.	2		24	60,0	85.3	6	
84     36     73.3     94.4     6     2     84     36     60.0     82.0     5     2       96     36     73.3     87.0     7     2     96     36     60.0     74.2     6     2       108     36     73.3     78.6     7     2     108     36     60.0     62.0     6     2       120     36     68.5     68.5     7     2     120     36     53.3     53.3     6     2       72     48     73.3     87.2     6     2     72     48     60.0     71.3     5     2       84     48     73.3     80.3     7     2     84     48     60.0     65.8     6     2       96     48     73.3     74.3     7     2     96     48     60.0     60.0     6     2       108     48     66.4     66.4     7     2     108     48     53.7     53.7     6     2       120     48     59.3     59.3     8     2     120     48     48.7     48.7     6     2					6						5	
96         36         73.3         87.0         7         2         96         36         60.0         74.2         6         2           108         36         73.3         78.6         7         2         108         36         60.0         62.0         6         2           120         36         68.5         68.5         7         2         120         36         53.3         53.3         6         2           72         48         73.3         87.2         6         2         72         48         60.0         71.3         5         2           84         48         73.3         80.3         7         2         84         48         60.0         65.8         6         2           96         48         73.3         74.3         7         2         96         48         60.0         60.0         6         2           108         48         66.4         66.4         7         2         108         48         53.7         53.7         6         2           120         48         59.3         59.3         8         2         120         48         48.7							84	36	60.0	82.0		
108     36     73.3     78.6     7     2     108     36     60.0     62.0     6     2       120     36     68.5     68.5     7     2     120     36     53.3     53.3     6     2       72     48     73.3     87.2     6     2     72     48     60.0     71.3     5     2       84     48     73.3     80.3     7     2     84     48     60.0     65.8     6     2       96     48     73.3     74.3     7     2     96     48     60.0     60.0     6     2       108     48     66.4     66.4     7     2     108     48     53.7     53.7     6     2       120     48     59.3     59.3     8     2     120     48     48.7     48.7     6     2	96	36	Control of the Contro	87.0	7	2.	96	36	60.0	74.2	6	2
120     36     68.5     68.5     7     2     120     36     53.3     53.3     6     2       72     48     73.3     87.2     6     2     72     48     60.0     71.3     5     2       84     48     73.3     80.3     7     2     84     48     60.0     65.8     6     2       96     48     73.3     74.3     7     2     96     48     60.0     60.0     6     2       108     48     66.4     66.4     7     2     108     48     53.7     53.7     6     2       120     48     59.3     59.3     8     2     120     48     48.7     48.7     6     2					7		108		60,0	62.0	6	
72         48         73.3         87.2         6         2         72         48         60.0         71.3         5         2           84         48         73.3         80.3         7         2         84         48         60.0         65.8         6         2           96         48         73.3         74.3         7         2         96         48         60.0         60.0         6         2           108         48         66.4         66.4         7         2         108         48         53.7         53.7         6         2           120         48         59.3         59.3         8         2         120         48         48.7         48.7         6         2	120				7		120	36	53,3	53.3	6	
84     48     73.3     80.3     7     2     84     48     60.0     65.8     6     2       96     48     73.3     74.3     7     2     96     48     60.0     60.0     6     2       108     48     66.4     66.4     7     2     108     48     53.7     53.7     6     2       120     48     59.3     59.3     8     2     120     48     48.7     48.7     6     2		48			6		72	48	60,0	71.3	5	
96     48     73.3     74.3     7     2     96     48     60.0     60.0     6     2       108     48     66.4     66.4     7     2     108     48     53.7     53.7     6     2       120     48     59.3     59.3     8     2     120     48     48.7     48.7     6     2												
108     48     66.4     66.4     7     2     108     48     53.7     53.7     6     2       120     48     59.3     59.3     8     2     120     48     48.7     48.7     6     2					<del></del>							
120 48 59.3 59.3 8 2 120 48 48.7 48.7 6 2												
72   60   69.2   69.2   6   2   72   60   52.6   52.6   5   2	72	60	69.2	69.2	6	2	72	60	52.6	52.6	5	2
84 60 61.5 61.5 6 2 84 60 50.7 50.7 6 2												
96 60 58.6 58.6 7 2 96 60 48.3 48.3 6 2		<u> </u>										
108 60 54.8 54.8 8 2 108 60 44.5 44.5 6 2					<u> </u>							
120 60 51 51 8 2 120 60 40.8 40.8 7 2												

Test # FTL	4457 - 3/16"	Annealed Fla	nge Fra	ame (XOX)
w/ HEA	NY DUTY MI	ETING RAIL	& HI-RI	SE SILL

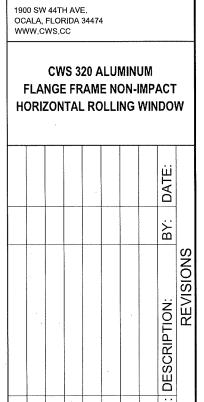
Width	Height	DP(+)	DP(-)	Anc	hors
(in)	(in)	psf	psf	Head & Sill	Each Jamb
53.125	26	73.3	100.0	3	2
74	26	73,3	100,0	5	2
106.375	26	73.3	81.6	5	2
111	26	73.3	79.0	5	2
53.125	38,375	73.3	100.0	4	2
74	38.375	73.3	86.0	5	2
106.375	38.375	61.6	61.6	6	2
111	38.375	58.7	58.7	6	2
53.125	50.625	73.3	86.5	5	2
74	50.625	65.7	65.7	5	<u>2</u> 2
106.375	50.625	52.3	52.3	6	2
111	50.625	50.3	50.3	6 ·	2
53.125	58	73.3	79.4	5	2
74	58	54.6	54.6	5	2
106.375	58	46.5	46.5	6	2
111	58	44.9	44.9	6	2
53,125	63	72.0	72.0	5	2
74	63	49.2	49.2	5	2 2
106.375	63	42.9	42.9	6	2
111	63	41.3	41.3	6	2
72	24	73.3	100,0	4	2
84	24	73.3	100.0	5	2
96	24	73.3	95.3	5 ·	2
108	24	73.3	90.5	6	2 2
120	24	73.3	85.3	6	2
72	36	73,3	91,2	5	2
84	36	73.3	82.0	5	2
96	36	73.3	74.2	6	2
108	36	62,0	62.0	6	2
120	36	53.3	53.3	6	2
72	48	71.3	71,3	5	2
84	48	65.8	65.8	6	2
96	48	60.0	60.0	6	2
108	48	53.7	53.7	6	2
120	48	48.7	48.7	6	2
72	60	52.6	52.6	5	2
84	60	50.7	50.7	6	2
96	60	48.3	48.3	6	2
108	60	44.5	44.5	6	2
120	60	40.8	40.8	7	2
	Press	ure Limited t	o Negative 1	00psf.	

EXT. (29) 3/8" GLAZING BITE

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

GLAZING DETAIL

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



A NO THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225

SEAL



GLASS LOAD CHARTS & MONOLITHIC GLAZING DETAIL (XOX)

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
DWG#:	REV #:
CWS-1226	
COLE:	<del></del>

AS NOTED

SHEET

7 OF 9

**PRODUCT REVISED** As complying with the Florida Building Code 24-0116.16 NOA-No. Expiration Date: 01/26/2026

By: Manuel Peres

# Test # FTL 4594 - 3/16" Annealed Flange Frame ( XOX ) w/ STANDARD MEETING RAIL & STANDARD SILL

w/ STANDARD MEETING RAIL & STANDARD SILL							
Width	Height	DP(+)	DP(-)	Anchors			
(in)	(in)	psf	psf	Head & Sill	Each Jamb		
53.125	26	60.0	100.0	3	2		
7.4	26	60.0	100.0	5	2		
106.375	- 26	60.0	81.6	5	2		
111	26	60.0	79.0	5	- 2		
53,125	38.375	60.0	93.2	4	2		
74	38.375	60.0	79.6	5	2		
106.375	38.375	60.0	61,6	6	2		
111	38,375	58.7	58.7	6	2		
53,125	50.625	60.0	64.3	4	2		
74	50.625	51,9	51.9	4	2		
106.375	50.625	44.6	44.6	5	2		
111	50.625	44.1	44.1	5	2		
72	24	60.0	100.0	4	. 2		
84	24	60.0	100.0	5	2		
96	24	60.0	95.3	5	2		
108	24	60.0	90.5	6	2		
120	24	60.0	85.3	6	2		
72	36	60.0	89.4	5	2		
84	36	60.0	82.0	- 5	2		
96	36	60.0	74.2	6	2		
108	36	60.0	62.0	6	2		
120	36	53.3	53.3	6	2		
72	48	56.9	56,9	4	2 2		
84	48	52.8	52.8	5	L		
96	48	50,3	50,3	5	2		
108	48	48.7	48.7	6	2		
120	48	47.3	47.3	6	2		

Pressure Limited to Negative 100psf.

Test # FTL 4594 - 3/16" Annealed Flange Frame ( XOX ) Test # FTL 4578 - 1/8" Annealed Flange Frame ( XOX )

w/ STANDARD MEETING RAIL & HI-RISE SILL	w/ STANDARD MEETING RAIL & STANDARD SILL	
Width Height DP(+) DP(-) Anchors		hors
(in) (in) psf psf Head & Sill Each Jar	b (in) (in) psf psf Head & Sill	Each Jamb
53.125 26 73.3 100.0 3 2	53.125 26 60.0 97.8 3	2
74 26 73.3 100.0 5 2	74 26 60.0 73.6 3	2
106.375 26 73.3 81.6 5 2	106,375 26 43.0 43.0 3	2
111 26 73.3 79.0 5 2	111 26 40.5 40.5 3	2
53.125 38.375 73.3 93.2 4 2	53.125 38.375 60.0 62.5 3	2
74 38.375 73.3 79.6 5 2	74 38.375 53.4 53.4 4	2
106.375 38.375 61.6 61.6 6 2	106,375 38,375 38.7 38.7 4	2
111 38.375 58.7 58.7 6 2	111 38.375 37.2 37.2 4	2
53.125 50.625 64.3 64.3 4 2	53.125 50.625 43.1 43.1 3	2
74 50.625 51.9 51.9 4 2	74 50.625 34.8 34.8 3	2
106.375 50.625 44.6 44.6 5 2	106.375 50.625 29.5 29.5 4	2
111 50.625 44.1 44.1 5 2	111 50,625 28.2 28.2 4	2
72 24 73.3 100.0 4 2	72 24 60.0 78.2 3	2
84 24 73.3 100.0 5 2	84 24 60.0 62.0 3	2
96 24 73.3 95.3 5 2	96 24 51.1 51.1 3	2
108 24 73.3 90.5 6 2	108 24 43.8 43.8 3	. 2
120 24 73.3 85.3 6 2	120 24 38.9 38.9 3	2
72 36 73.3 89.4 5 2	72 36 59.7 59.7 4	2
84 36 73.3 82.0 5 2	84 36 51.3 51.3 4	2
96 36 73.3 74.2 6 2	96 36 45.1 45.1 4	2
108 36 62.0 62.0 6 2	108 36 40.0 40.0 4	2
120 36 53.3 53.3 6 2	120 36 35.3 35.3 4	2
72 48 56.9 56.9 4 2	72 48 38.2 38.2 3	2
84 48 52.8 52.8 5 2	84 48 35.4 35.4 3	, 2
96 48 50,3 50,3 5 2	96 48 33.7 33.7 4	2
108 48 48.7 48.7 6 2	108 48 30.6 30.6 4	2
120 48 47.3 47.3 6 2	120 48 27.4 27.4 4	2

Pressure Limited to Negative 100psf.

Test # FTL 4578 - 1/8" Annealed Flange Frame ( XOX )

Width	Height	DP(+)	DP(-)	Anchors				
(in)	(in)	psf	psf		Each Jamb			
53,125	26	73.3	97.8	- 3	2			
74	26	73.3	73.6	3	2			
106.375	26	43.0	43.0	3	2			
111	26	40.5	40.5	3	2			
53,125	38.375	62.5	62.5	3	2			
74	38.375	53.4	53.4	4	2			
106.375	38.375	38.7	38.7	4	2 ·			
111	38,375	37.2	37.2	4	2			
53.125	50,625	43.1	43.1	3	2			
74	50,625	34.8	34.8	3	2			
106.375	50.625	29.5	29,5	4	2			
111	50,625	28,2	28,2	4	2			
72	24	73,3	78.2	3	2			
84	24	62.0	62.0	3	2			
96	24	51.1	51.1	3	2			
108	24	43.8	43.8	3	2			
120	24	38.9	38.9	3	2			
72	36	59.7	59.7	4	2			
84	36	51.3	51.3	4	2			
96 .	36	45.1	45.1	4	2			
108	36	40.0	40.0	4	2			
120	36	35.3	35,3	4	2			
72	48	38,2	38.2	3	2			
84	48	35.4	35.4	3	2			
96	48	33,7	33,7	4	2			
108	48	30.6	30,6	4	2			
120	48	27.4	27.4	4	2			

Miami-Dade Product Control

320 Non Impact Horizontal Sliding Window - XOX Test # FTL 4541 - 1/8" Annealed Insulated Flange Frame							
W/ HEAVYDUTY MEETING RAIL & STANDARD SILL Width Height DP(+) DP(-) Anchors							
Width	Height	DP(+)	DP(-)				
(in)	(in)	psf	psf	Head & Sill	Each Jamb		
53,125	26	60.0	100.0	3	2		
74	26	60,0	100,0	5	2		
106,375	26	60.0	77.4	5			
111	26	60.0	72.9	5	2		
53,125	38.375	60.0	100.0	4	2		
74	38.375	60,0	98,5	6	2		
106.375	38.375	60.0	69.7	6	2		
111	38.375	60.0	66.9	6	2		
53.125	50.625	60.0	80.9	5	2		
74	50.625	60.0	75.0	6	2		
106.375	50.625	53.2	53.2	6	2		
111	50.625	50.8	50.8	6	2		
53,125	58	60.0	68,1	5	2		
74	58	60.0	62.7	6	2		
106,375	58	46.1	46.1	6	2		
111	58	44.3	44.3	6	2		
53.125	63	60.0	61.8	4	2		
74	63	56.2	56.2	- 6	2		
106,375	63	42.8	42.8	6	2		
111	63	40.9	40,9	6	2		
72	24	60.0	100.0	4	2		
84	24	60.0	100.0	5	2		
96	24	60.0	91.9	5	2		
108	24	60.0	78.8	5	2		
120	24	60.0	70.0	5	2		
72	36	60.0	100.0	6	2		
84	36	60,0	92.4	6	2		
96	36	60	81.2	6	2		
108	36	60	72	6	2		
120	36	60	63.6	6	2		
72	48	60	81.6	6	2		
84	48	60	71.5	6	2		
96	48	60.0	62.9	6	2		
108	48	55.1	55.1	6	2		
120	48	49.4	49.4	6	2		
72	60	60.0	61.0	6	2		
84	60	55.4	55.4	6	2		
96	60	49.9	49.9	6			
108	60	44.2	44.2	6	2		
120	60	39.6 ure Limited t	39.6	6	2		

320 Non Impact Horizontal Sliding Window - XOX Test # FTL 4541 - 1/8" Annealed Insulated Flange Frame W/ HEAVYDUTY MEETING RAIL & HI-RISE SILL

DP(-)

psf

100.0

100.0

77.4

100,0

98.5

69.7

66.9

80.9

75.0

53.2

50.8

68.1

62.7

46.1

44.3

61.8

56.2

42.8

40.9 100.0

100.0

91.9

78.8

70.0

100.0

92.4

81.2

72.0

63.6

81.6

71.5

62.9

55.1

49.4

61.0

55.4

49.9

44.2

39.6

Head & Sill Each Jam

4

6

6

6

6

6

6

6

6

4

6

4

5

5

6

6

-6

6

6

6

6

2

DP(+)

psf

73.3

73.3

73,3

72.9 73.3

73.3

69.7

66.9

73.3

73,3

53.2

50.8

68.1

62.7

46.1

44.3

61.8

56.2

42.8

40.9

73.3

73.3

73.3

73.3

70.0

73.3

73.3

73.3

72.0

63,6

73.3

71.5

62.9

55.1

49.4

61.0

55,4

49.9

44.2

39,6

(in)

26

26

26

38.375

38.375

50.625

50.625

50,625

58

58

58

58

63

63

63

63

24

24

24

24

24

36

36

36

36

36

48

48

48

48

48

60

60

60

60

60

111 26 53.125 38.375

106.375 38.375

106.375 50.625

(in)

53,125

74

106,375

74

53.125

74

111

74

106.375

111

53,125

74

106.375

111

72

84

96 108

120

72

84

96

108

120

84

96 108

120

72

84

96

108

120

320 Non Impact Horizontal Sliding Window-XO or OX Test # w/ Width

(in)

26.5

74

26,5 37

53.125

74

26.5

37

53.125

74

37

53,125

74

26,5

74

48

60

72

36

48

60

72

36

48

60

72

24

36

48

60

72

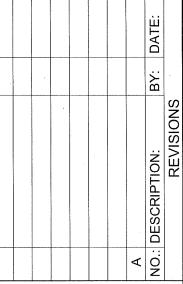
# FTL 4533 - 1/8" Annealed Insulated Flange Frame # EAVYDUTY MEETING RAIL & STANDARD SILL									
-		P(+)	market diving collections	A STATE OF THE PARTY OF THE PAR	SILL hors	-	-		
	Height (in)	psf	DP(-) psf	Head & Sill	Each Jamb				
=	26	60.0	100.0	2	2	▎▐	=		
	26	60.0	100,0	2	2				
Ī	26	60.0	100.0	3	2	I	_		
-	26	60,0	100,0	5			_		
	38,375	60,0	100,0		2				
	38.375	60.0	100.0	2 3	2 2 2 2 2 2 2		_		
	38.375	60.0	100.0	4	2	ľ	_		
	38.375	60.0	93.1	4 5	2	ΙГ	_		
	50.625	60.0	100.0	2	2	lΓ			
	50.625	60.0	100.0	3	2				
	50.625	60.0	80.3	4	3	Г	_		
1890	50.625	60.0	71.7	5	3	ľ	-		
	58	60,0	100,0	3	2		_		
	58	60.0	98.6	4	3	lF			
	58	60.0	66.0	4	2	·[	_		
	58	60.0	60,8	5					
_	63	60,0	100,0	3	2 3	ΙŒ	_		
	63	60.0	89.4	3	3		_		
	63	57.0	57.0	4	2		_		
_	63	54.0	54.0	5	3	1 [	_		
	24	60.0	100.0	5 2 2	3 2 2		_		
_	24	60.0	100.0	2					
	24	60.0	100.0	3	2	1 E	_		
_	24	60.0	100.0		2	l			
	24	60,0	100,0	4	2				
_	36	60.0	100.0	2	2 2 2 2 2		_		
_	36	60,0	100,0		2	1 [	_		
	36	60.0	100.0	3	2	1 C	_		
	36	60.0	100.0	4	2 2 2		_		
	36	60,0	100,0	5	2	ıΓ	-		

320 Non Impact Horizontal Sliding Window - XO or OX Test # FTL 4533 - 1/8" Annealed Insulated Flange Frame

W/ HEAVYDUTY MEETING RAIL & HI-RISE SILL							
Width	Height	DP(+)	DP(-)	Anchors			
(in)	(in)	psf	psf	Head & Sill	Each Jamb		
26.5	26	73.3	100.0	2	2		
37	26	73.3	100.0	2	2		
53,125	26	73,3	100.0	3	2		
74	26	73.3	100.0	5	2		
26,5	38,375	73,3	100.0	2	2		
37	38.375	73.3	100.0	3	2		
53.125	38.375	73.3	100.0	4	2		
74	38,375	73.3	93.1	5	2		
26.5	50.625	73.3	100.0	2	2		
37	50.625	73.3	100.0	3	2		
53.125	50.625	73.3	80,3	4	3		
74	50.625	71.7	71.7	5	3		
26,5	58	73,3	100.0	3	2		
37	58	73,3	98.6	4	3		
53,125	58	66.0	66.0	4	2		
74	58	60.8	60.8	5	3		
26.5	63	73.3	100.0	3	2		
37	63	73.3	89.4	3	3		
53,125	63	57,0	57.0	4	2		
74	63	54.0	54.0	5	3		
24	24	73.3	100.0	2	2		
36	24	73.3	100.0	2	2 .		
48	24	73.3	100.0	3	2		
- 60	24	73.3	100.0	3			
72	24	73.3	100.0	4	2		
24	36	73.3	100.0	2	2 2		
36	36	73.3	100,0	3	CHIANIST PROPERTY.		
48	36	73,3	100.0	3	2		
60	36	73.3	100.0	4	2		
72	36	73,3	100.0	5	2		
24	48	73.3	100.0	2	2		
36	48	73.3	100.0	3	2		
48	48	73.3	88.3	4	2		
60	48	73.3	85.7	4	3		
72	48	73.3	77.3	5	3		
24	60	73.3	100.0	2	2		
36	60	73.3	96.9	4	3		
48	60	66.0	66.0	3	2		
60	60	63.1	63.1	4	3		
72	60	58,8	58,8	5	3		
Pressure Limited to Negative 100psf.							

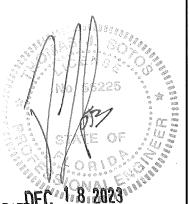
OCALA, FLORIDA 34474 WWW.CWS.CC

CWS 320 ALUMINUM FLANGE FRAME NON-IMPACT HORIZONTAL ROLLING WINDOW



THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225

SEAL



GLASS LOAD CHARTS, INSULATED GLAZING DETAIL

DRAWN BY:	DATE:	_	
NELSON ERAZO	11/17/2023		
REV. BY:	DATE:		
DWG #:		REV #:	
CWS-1226			
SCALE:	SH	EET	
AS NOTED	80	F 9	

320 Non Impact Horizontal Sliding Window - XOX Test # FTL 4588 - 1/8" Annealed Insulated Flange Frame

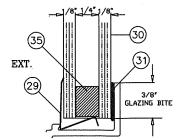
W/ STANDARD MEETING RAIL & STANDARD SILL							
Width	Height	DP(+)	DP(-)	Anchors			
(in)	(in)	psf	psf	Head & Sill	Each Jamb		
53.125	26	60.0	100.0	3	2		
74	26	60.0	100.0	5	2		
106.375	26	60.0	77.4	5	2		
111	26	60.0	72.9	5	2		
53.125	38.375	60.0	93.2	4	2 ,		
74	38.375	60.0	79.6	5	2		
106.375	38.375	60:0	69.7	6	2		
111	38.375	60.0	66.9	6	2		
53,125	50.625	60.0	64.3	4	2		
74	50.625	51.9	51.9	4	2		
106.375	50,625	44.6	44.6	5	2		
111	50.625	44.1	44.1	5	2		
72	24	60.0	100,0	4	2		
84	24	60.0	100.0	5	2		
96	24	60,0	91.9	5	2		
108	24	60,0	78.8	5	2		
120	24	60.0	70.0	5	2		
72	36	60.0	89.4	5	2		
84	36	60.0	85.7	6	2		
96	36	60.0	81.2	6	2		
108	36	60.0	72.0	6	2		
120	36	60.0	63,6	6	2		
72	48	56.9	56.9	4	2		
84	48	52,8	52.8	5	2		
96	48	50.3	50.3	5	2		
108	48	48.7	48.7	6	2		
120	48	47.3	47.3	6	2		

Pressure Limited to Negative 100psf.

320 Non Impact Horizontal Sliding Window - XOX Test # FTL 4588 - 1/8" Annealed Insulated Flange Frame

Pressure Limited to Negative 100ps

	w/ STANDARD MEETING RAIL & HI-RISE SILL								
ľ	Width	Height	DP(+)	DP(-)	Anc	hors			
L	(in)	(in)	psf	psf	Head & Sill	Each Jamb			
Ī	53.125	26	73.3	100.0	3	2			
	74	26	73.3	100.0	5	2			
	106.375	26	73.3	77.4	5	2			
	111	26	72,9	72.9	5	2			
	53.125	38,375	73.3	93.2	4	2			
	74	38.375	73.3	79.6	5	2			
	106.375	38.375	69.7	69.7	6	2			
	111	38.375	66.9	66,9	6	2			
	53,125	50,625	64.3	64.3	4	2			
	74	50,625	51,9	51.9	4	2			
	106,375	50,625	44.6	44.6	5	2			
I	111	50,625	44.1	44.1	5	2			
	72	24	73,3	100.0	4	2			
	84	24	73.3	100.0	5	2			
	96	24	73.3	91.9	5	2			
	108	24	73.3	78.8	5				
	120	24	70.0	70.0	5	2			
	72	36	73.3	89.4	5	2			
L	84	36	73.3	85.7	6	2			
	96	36	73,3	81.2	6	2			
L	108	36	72.0	72.0	6	2			
	120	36	63,6	63,6	6	2			
	72	48	56,9	56.9	4	2			
	84	48	52,8	52,8	5	2			
L	96	48	50.3	50.3	. 5	2			
	108	48	48.7	48.7	6	2 2			
	120	48	47.3	47.3	6	2			
		Press	ure Limited to	o Negative 1	00psf.				



60.0

60,0

60.0

60.0

60,0

60.0

60

60

60

58.8

Pressure Limited to Negative 100psf

48

48

48

48

60

60

60

60

60

100,0

100.0

88.3

85.7

77.3

100.0

96.9

66.0

63.1

58.8

4

5

4

3

4

1/2" OVERALL INSULATED GLASS CONSIST OF:

1/8" ANNEALED OR TEMPERED LITE + 1/4" AIR SPACE + 1/8" ANNEALED OR TEMPERED LITE (SEE CORRESPONDING DESIGN PRESSURE CHARTS)

Insulated Spacer Types & Options 35a) TrueSeal Swiggle Seal

35b) Quanex SuperSpacer w/ Isomelt M 35c) Quanex Duraseal

GLAZING DETAIL & DESCRIPTION

#### Note:

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

> **PRODUCT REVISED** As complying with the Florida Building Code 24-0116.16 NOA-No.

Expiration Date: 01/26/2026 By: Manuel Peres

Miami-Dade Product Control

