

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

# BOARD AND CODE ADMINISTRATION DIVISION

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

**MIAMI-DADE COUNTY** 

## **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-310 (Fin Frame)" Aluminum Single Hung Window - N.I.

**APPROVAL DOCUMENT:** Drawing No. **CWS-1225**, titled "CWS 310 Aluminum Single Hung Fin Frame Non-Impact Window", sheets 1 through 5 of 5, 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. 23-1017.07 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

1/24/24

NOA No. 24-0116.15 Expiration Date: July 07, 2025 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. 05-0324.06))
- 2. Drawing No. **L7600-0402**, titled "SH-7600 Single Hung Fin Window", sheets 1 through 5 of 5, dated 09/20/04, with revision **H** dated 10/11/23, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No. 23-1017.07)

#### 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, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-23-8048** and **HETI-23-8049**, dated 07/24/23, signed and sealed by Ram N. Tewari, P.E.

#### (Submitted under NOA No. 23-1017.07)

- 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 single hung window-fin mounted, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-5284**, dated on 09/14/07, and addendum letter dated 07/21/08, all signed and sealed by Michael R. Wenzel, P.E.

#### (Submitted under NOA No.07-1029.05)

- **3.** Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of aluminum single hung windows - (fin/flange mounted), prepared by Fenestration Testing Laboratory, Inc., Test Reports No. FTL-4324, FTL-4350, FTL-4351, FTL-4364, FTL-4363, FTL-4323, FTL-4406 and FTL-4405, all dated 11/08/04 and 11/12/04, signed and sealed by Edmundo J. Largaespada, P.E.

(Submitted under NOA No.05-0324.06)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0116.15
Expiration Date: July 07, 2025

Approval Date: February 01, 2024

#### 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 08/04/09, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No. 09-0720.06)
  - 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 11, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
  - (Submitted under NOA No. 23-1017.07)
- 2. Statement letter of no financial interest, dated October 11, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
  - (Submitted under NOA No. 23-1017.07)
- 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. 23-1017.07)
- 4. Laboratory compliance letter for Test Report No. FTL-5284, issued by Fenestration Testing Laboratory, Inc., dated 09/14/07, signed and sealed by Michael R. Wenzel, P.E.
  - (Submitted under NOA No. 07-1029.05)
- 5. Laboratory compliance letter for Test Reports No. FTL-4324, FTL-4350, FTL-4346, FTL-4363, FTL-4323, FTL-4406 and FTL-4405, issued by Fenestration Testing Laboratory, Inc., all dated 11/08/04 and 11/12/04, all signed and sealed by Edmundo J. Largaespada, P.E.
  - (Submitted under NOA No.05-0928.02)

#### G. OTHERS

1. Notice of Acceptance No. **20-0814.06**, issued to Lawson Industries, Inc. for their Series "SH-7600 (Fin Frame)" Aluminum Single Hung Window – N.I., approved on 10/15/20 and expiring on 07/07/25.

Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0116.15
Expiration Date: July 07, 2025

Approval Date: February 01, 2024

#### Custom Window Systems, Inc.

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### 2. NEW EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. **L7600-0402**, titled "SH-7600 Single Hung Fin Window", sheets 1 through 5 of 5, dated 09/20/04, with revision **H** dated 10/11/23, prepared by manufacturer, 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

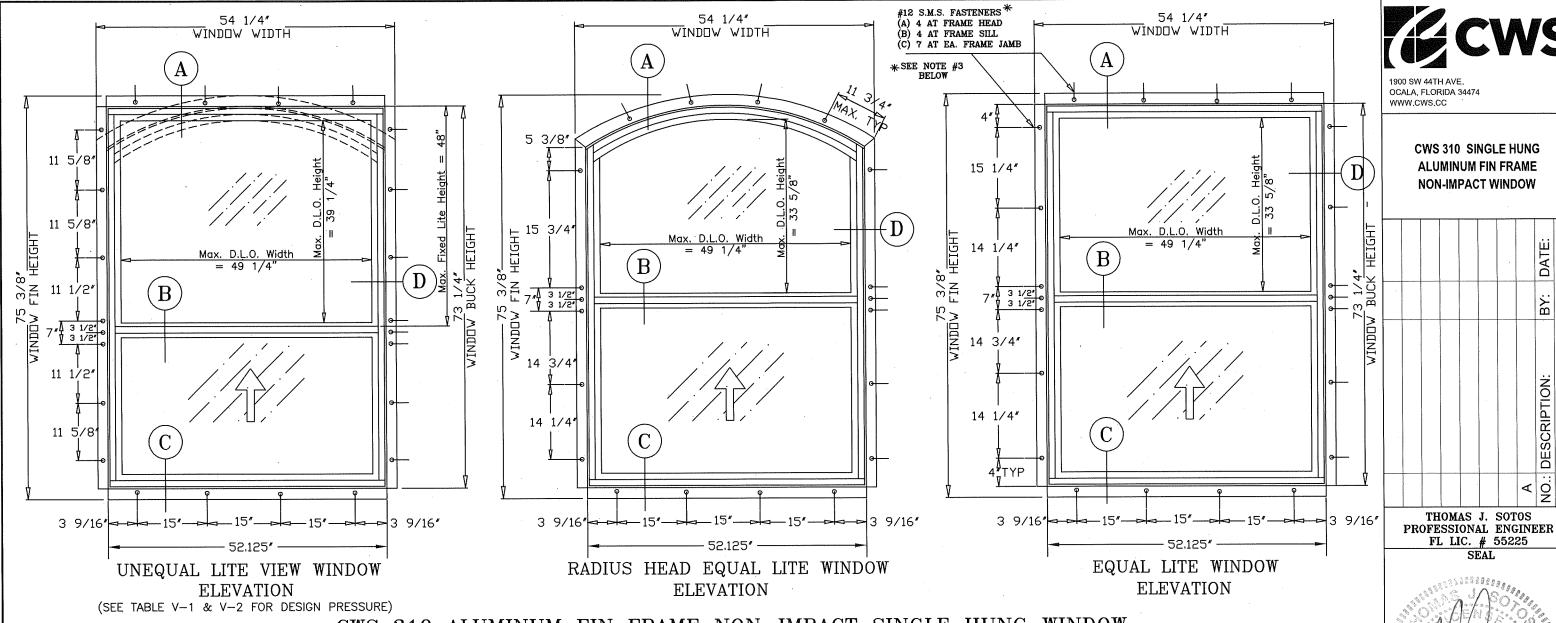
- 1. Statement letter of conformance, complying with **FBC 8<sup>th</sup> Edition (2023)**, dated December 18, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
- 2. Statement letter of no financial interest, dated December 18, 2023, issued by the manufacturer, signed and sealed 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.

#### F. OTHERS

1. Notice of Acceptance No. **23-1017.07**, issued to Lawson Industries, Inc. for their Series "SH-7600 (Fin Frame)" Aluminum Single Hung Window – N.I., approved on 11/16/23 and expiring on 07/07/25.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0116.15
Expiration Date: July 07, 2025

Approval Date: February 01, 2024



# CWS 310 ALUMINUM FIN FRAME NON-IMPACT SINGLE HUNG WINDOW

# NOTES:

- 1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (2020-7th Edition & 2023-8th Edition) AND ASTM 1300-09. THIS PRODUCT IS NOT IMPACT RESISTANT. WINDOWS ARE TO BE PROTECTED WITH A MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTER.
- 2.) 1 X OR 2 X WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDINGRESITS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF F.B.C. & TO BE REVIEWED BY BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ABOVE ARE AS PER TEST UNITS. EXTERIOR ANCHOR SPACINGS WILL VARY WITH UNIT DIMENSIONS, AND THE NUMBER OF ANCHORS REQUIRED, AS SPECIFIED ON THE LOAD TABLES AT SHEET 3 &4.
- 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.) RADIUS HEAD WINDOWS ARE QUALIFIED FOR USE WITH ALL GLASS TYPES TABULATED HEREIN. HEREIN.
- 6.) VIEW WINDOWS ARE QUALIFIED FOR USE WITH 3/16" ANNEALED & 3/16" TEMPERED GLASS USING THE HEAVY DUTY MEETING RAIL ONLY.
- SEE SHEET #5 FOR SASH LOCK OPTIONS & NOTES.
- 8.) SEE SHEET #4 FOR GLAZING DETAILS & OPTIONS. (REFER TO SHEETS 3, & 4 FOR DESIGN PRESSURES.
- 9.) WOOD OPENING SHALL BE PROTECTED WITH AN APPROVED MOISTURE RESISTANT BARRIER (BY OTHERS), PRIOR TO WINDOW INSTALLATION. (SEE SHEET #2 FOR DETAIL & NOTES.
- 10.) APPROVAL APPLIES TO SINGLE UNITS, OR MULTIPLE UNITS AND MAY BE MULLED VERTICALLY OR HORIZONTALLY.
- MULLING SINGLE HUNG WINDOWS WITH OTHER TYPES OF MIAMI-DADE COUNTY APPROVED WINDOWS USING A MIAMI-DADE COUNTY APPROVED MULLION IN BETWEEN ARE ACCEPTABLE BUT THE LOWER PRESSURE FROM THE WINDOWS OR MULLION APPROVAL WILL APPLY TO THE ENTIRE MULLED SYSTEM.

12.) SEE SHEET # 5 FOR MULLION/METAL ATTACHMENT DETAILS & NOTES.

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

> APPROVED ELEVATIONS, CONFIGURATIONS AND NOTES 11/17/2023 **NELSON ERAZO PRODUCT REVISED** As complying with the Florida Building Code 24-0116.15 NOA-No. REV#: Expiration Date: 07/07/2025 CWS-1225 SHEET Miami-Dade Product Control 1 OF 5 AS NOTED

CWS 310 SINGLE HUNG

**ALUMINUM FIN FRAME** 

**NON-IMPACT WINDOW** 

DATE:

BY:

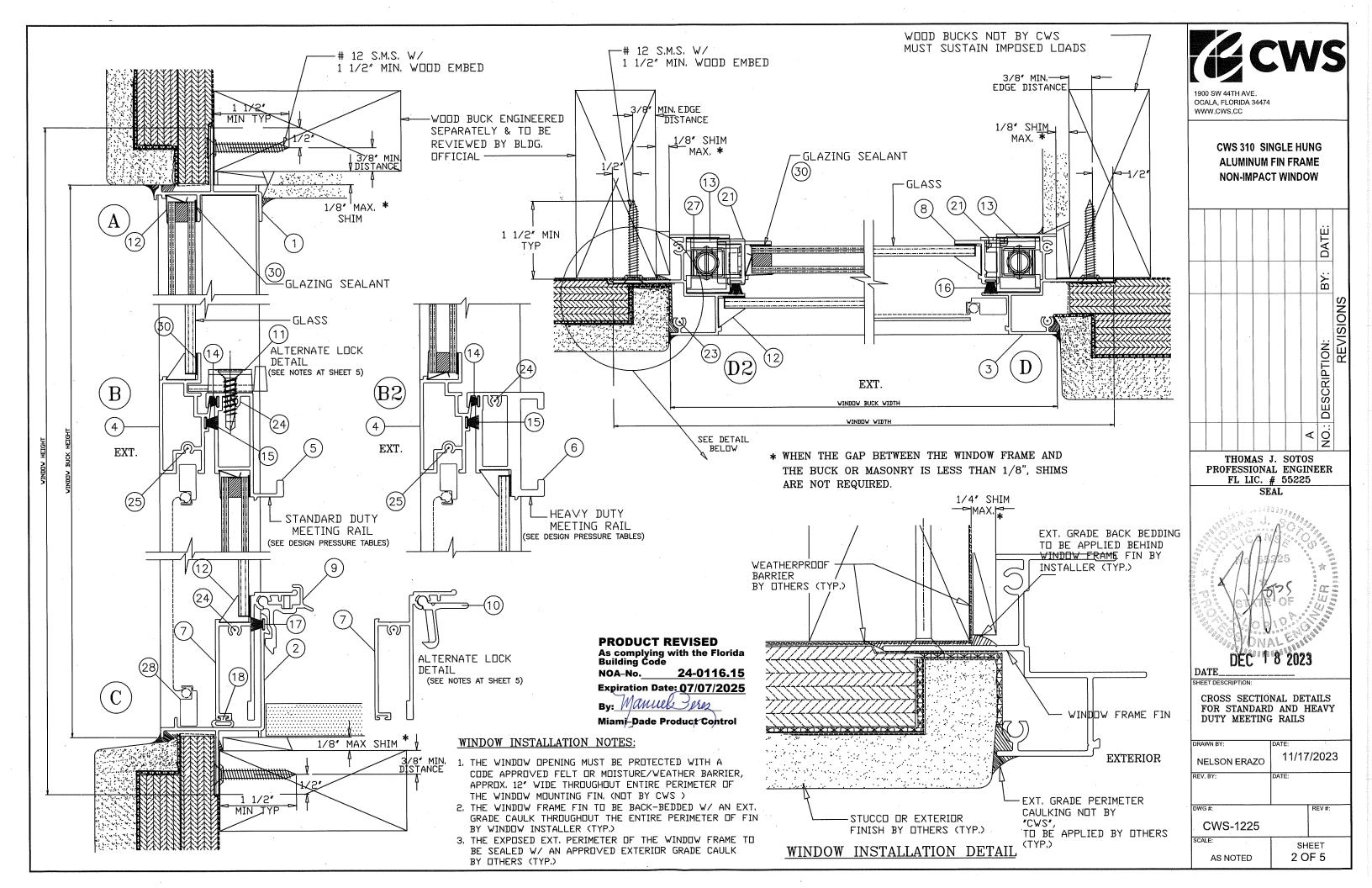
DESCRIPTION:

A NO.:

THOMAS J. SOTOS

SEAL

REVISIONS



#### Test # FTL 5284 A-1 - 1/4" Annealed Pressure Limited to Negative 100psf. Fin Frame w/ Standard Meeting Rail

	rin Fr	ame w/ Si	andard W	eeting Kali	
Buck	Buck	P(+)	P (-)	Each Jamb	Head & Sill
Width	Height	psf	psf	Anchors	Anchors
18.125	25	70.00	100.00	3	2
18.125	37.375	70.00	100.00	4	2
18.125	49.625	70.00	100.00	6	2
18.125	57	70.00	100.00	7	2
18.125	62	70.00	100.00	7	2
18.125	73.25	70.00	100.00	9	2
25.5	25	70.00	100.00	4	2
25.5	37.375	70.00	100.00	5	3
25.5	49.625	70.00	100.00	7	3
25.5	57	70.00	100.00	8	3
25.5	62	70.00	100.00	. 9	3
25.5	73.25	70.00	100.00	11	3
36	25	70.00	100.00	4	3
36	37.375	70.00	100.00	6	4
36	49.625	70.00	95.62	8	4
36	57	70.00	90.30	9	4
36	62	70.00	87.97	10	4
36	73.25	70.00	85.76	12	4
52.125	25	70.00	96.80	6	4
52.125	37.375	70.00	71.11	6	4
52,125	49.625	58.30	58.30	7	4
52.125	57	53.41	53.41	7	4
52.125	62	50.86	50.86	. 8	4
52.125	73.25	46.70	46.70	. 9	4

# Test # FTL 4344 - 1/4" Annealed Pressure Limited to Negative 100psf.

Fin Frame w/ Heavy Duty Rail								
Buck	Buck	P(+)	P (-)	Each Jamb	Head & Sill			
Width	Height	psf	psf	Anchors	Anchors			
18.125	25	70.00	100.00	4	2			
18.125	37.375	70.00	100.00	4	3			
18.125	49.625	70.00	100.00	7	2			
18.125	57	70.00	100.00	7	2			
18.125	62	70.00	100.00	8	2			
18.125	73.25	70.00	100.00	10	2			
25.5	25	70.00	100.00	4	3			
25.5	37.375	70.00	100.00	6	3			
25.5	49.625	70.00	100.00	8	3			
25.5	57	70.00	100.00	8	3			
25.5	. 62	70.00	100.00	10	3			
25.5	73.25	70.00	100.00	12	3			
36	25	70.00	100.00	4	4			
36	37.375	70.00	100.00	7	4			
36	49.625	70.00	100.00	10 <sup>-</sup>	. 6			
36	57	70.00	100.00	11	6			
36	62	70.00	100.00	12	6			
36	73.25	70.00	86.00	12	4			
52.125	25	70.00	100.00	6	6			
52.125	37.375	70.00	100.00	8	.7 '			
52.125	49.625	70.00	93.00	11	7			
52.125	57	70.00	74.90	10	7			
52.125	62	66.10	66.10	11	6			
52.125	73.25	57.70	57.70	11	6			

#### Test # FTL 4406 - 3/16" Annealed Pressure Limited to Negative 100psf. Fin Frame w/Standard Duty Rail

	Fin F	rame w/S	tandard i	Juty Kall		Н	CODE	Γ
Buck	Buck	P(+)	P(-)	Each Jamb	Head & Sill		SIZE	l
Width	Height	psf	psf	Anchors	Anchors		14 - 2	t
18.125	25	70.00	100.00	4	. 2		14 - 3	r
18.125	37.375	70.00	100.00	4	3		15 - 3	
18.125	49.625	70.00	100.00	. 7	2		15 - 4	
18.125	57	70.00	100.00	7	2		16 - 4	Ļ
18.125	62	70.00	100.00	8	. 2		16 - 45 16 - 5	Ļ
18.125	73.25	70.00	100.00	10	2		H34 - 2	ł
25.5	25	70.00	100.00	4	3		H34 - 3	ł
25.5	37.375	70.00	100.00	6	3		H35 - 3	t
25.5	49.625	70.00	100.00	8	3		H35 - 4	Ī
25.5	57	70.00	100.00	8	3		H36 - 4	I
25.5	62	70.00	100.00	10	3	П	H36 - 45	ļ
25.5	73.25	70.00	89.80	11	3		H36 - 5	ł
36	25	70.00	100.00	4	4		24 - 2	ł
36	37.375	70.00	100.00	7	4		25 - 3	t
36	49.625	70.00	93.30	8	4		25 - 4	t
36	57.	70.00	82.00	8	4		26 - 4	İ
36	62	70.00	77.20	10	4	1	26 - 45	I
36	73.25	66.80	66.80	10	4		26 - 5	ļ
52.125	. 25	70.00	100.00	6	. 6		34 - 2	ļ
52.125	37.375	70.00	76.13	7	6		35 - 3	ł
52.125	49.625	62.42	62.42	-8	6		35 - 4	t
52.125	57	52.70	52.70	8	4		36 - 4	t
52.125	62	49.90	49.90	- 8	4	1	36 - 45	İ
52.125	73.25	45.80	45.80	10	4	L.	36 - 5	I
<u> </u>	•				PRODUCT	R	EVISED	_

#### Test # FTL 4363 - 3/16" Annealed View Fin Frame w/ Heavy Duty Rail TABLE V-1

			IADEL	V - 1		
CODE	Buck`	Buck	P(+)	P (-)	Each Jamb	Head & Sill
SIZE	Width	Height	psf	psf	Anchors	Anchors
14 - 2	18.125	49.625	70.0	100.0	8	3
14 - 3	18.125	49.625	70.0	100.0	10	3
15 - 3	18.125	62	70.0	100.0	10	3
15 - 4	18.125	62	70.0	100.0	11	3
16 - 4	18.125	73.25	70.0	100.0	11	3
16 - 45	18.125	73.25	70.0	100.0	11	3
16 - 5	18.125	73.25	70.0	100.0	12	3
H34 - 2	25.5	49.625	70.0	84.5	7	3
H34 - 3	25.5	49.625	70.0	104,0	8	3
H35 - 3	25.5	62	70.0	72.4	7	3
H35 - 4	25.5	62	70.0	84.5	8	3
H36 - 4	25.5	73.25	64.4	64.4	8	3
H36 - 45	25.5	73.25	70.0	70.2	8	3
H36 - 5	25.5	73.25	70.0	74.2	10	3
24 - 2	36	49.625	63.8	63.8	7	3
24 - 3	36	49.625	70.0	75.2	7	3
25 - 3	36	62	55.2	55.2	7	- 3
25 - 4	36	62	63.8	63.8	8	3
26 - 4	36	73.25	49.1	49.1	7	3
26 - 45	36	73.25	53.3	53.3	8	3
26 - 5	36	73.25	56.6	56.6	8	3
34 - 2	52.125	49.625	44.6	44.6	6	.3
34 - 3	52.125	49.625	49.0	49.0	7	3
35 - 3	52.125	62	41.5	41.5	7	3
35 - 4	52.125	62	44.6	44.6	7	4
36 - 4	52.125	73.25	39.0	39.0	8	3
36 - 45	52.125	73.25	40.8	40.8	8	4
36 - 5	52.125	73.25	42.2	42.2	8	4

Test # FTL 4324 - 3/16" Tempered Pressure Limited to Negative 100psf.

As complying with the Florida Building Code NOA-No.

Test # FTL 4345 - 3/16" Tempered View 24-0116.15 Pressure Limited to Negative 100psf.

	Pressure Limited to Negative 100pst.  Expiration Date: 07/07/2025 Fin Frame w/ Heavy Duty Rail - TABLE V-2												
	Fin	Frame w	/ Heavy D	uty Rail			Buck	Buck	P(+)	P(-)		Head & Sill	ı I
Buck	Buck	P(+)	P (-)	Each Jamb	ву: Мании	eres	Width	Height	psf	psf	Anchors	Anchors	П
Width	Height	psf	psf	Anchors	Miamj-Dade P	roduct Con	trol <sub>8.125</sub>	49,625	70.0	100.0	7	2	
18.125	25	70	100.00	4	2	14 - 3	18.125	49.625	70.0	100.0	7	2	1
18.125	37,375	70.00	100.00	4	3	15 - 3	18.125	62	70,0	100.0	8	2	33
18.125	49.625	70.00	100.00	7	2	15 - 4	18.125	62	70.0	100.0	8	2	1 6
18.125	57	70.00	100.00	7	2	16 - 4	18.125	73.25	70.0	100.0	10	2	6 6 6 6 6 6
18.125	62	70.00	100.00	8	2	16 - 45	18.125	73.25	70.0	100.0	10	2	
18.125	73.25	70.00	100.00	10	2	16 - 5	18.125	73.25	70.0	100.0	10	2	. 9
25.5	25	70.00	100.00	4	3	H34 - 2	25.5	49.625	70.0	100.0	8	3	ıl
25.5	37.375	70.00	100.00	6	3	H34 - 3	25.5 25.5	49.625 62	70.0 70.0	100.0	10	3 3	ıl
	<del></del>	ļ	L		3	H35 - 4	25.5	62	70.0	100.0	10	3	ıl
25.5	49,625	70.00	100.00	8		H36 - 4	25.5	73.25	70.0	100.0	12	3	.
25.5	57	70.00	100.00	8	3	H36 - 45	25.5	73.25	70.0	100.0	12	3	ıΙ
25.5	62	70.00	100.00	10	3	H36 - 5	25.5	73.25	70.0	100.0	12	3	
25.5	73.25	70.00	100.00	12	. 3	24 - 2	36	49.625	70.0	100.0	10	3	
36	25	70.00	100.00	4	4 .	24 - 3	36	49,625	70.0	100.0	10	4	i I
36	37.375	70.00	100.00	7	4	25 - 3	36	62	70.0	100.0	12	4	i I
36	49.625	70.00	100.00	10	6	25 - 4	36	62	70.0	100.0	12	6	i I
36	57	70.00	100.00	11	6	26 - 4	36	73.25	70.0	100.0	15	4	Ē
36	62	70.00	100.00	12	6	26 - 45	36	73.25	70.0	100.0	15	6	i I
36	73.25	70.00	100.00	15	6	26 - 5	36	73.25	70.0	100.0	15	6	ιL
52.125	25	70.00	100.00	6	6	34 - 2	52.125	49.625	70.0	100.0	12	4	į  F
52.125	37.375	70.00	100.00	8	7	34 - 3	52.125	49.625	70.0	100.0	12	6	ı I
52,125	49.625	70.00	99.87	12	7	35 - 3 35 - 4	52.125 52.125	62 62	70.0	92.9 87.6	15 14	6	. 0
52.125	57	70.00	91.49	12	7	36 - 4	52.125	73.25	70.0	84.1	16	7	ıl
52,125	62	70.00	87.12	14	7	36 - 45	52.125	73.25	70.0	81.3	15	7	5
52.125	73,25	70.00	80.00	15	7	36 - 5	52.125	73,25	70.0	80.0	15	7	



OCALA, FLORIDA 34474 WWW.CWS.CC

CWS 310 SINGLE HUNG **ALUMINUM FIN FRAME** NON-IMPACT WINDOW

					BY: DATE:	
					BY:	
			-		NO.: DESCRIPTION:	REVISIONS
_				4	NO.:	

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL



DESIGN LOAD CHARTS W/ MONOLITHIC GLASS

	DRAWN BY:	DATE:			
	NELSON ERAZO				
	REV. BY:	DATE:			
	DWG #:		REV#:		
	CWS-1225				
	SCALE:	SH	EET		
I	AS NOTED	3 OF 5			

#### Test # FTL 5284 A-4 - 1/8" Annealed Pressure Limited to Negative 100psf. Fin Frame w/ Standard Meeting Rail

	FIII FIA			eting Kali	
Buck	Buck	P(+)	P (-)	Each Jamb	Head & Sill
Width	Height	psf	psf	Anchors	Anchors
18.125	25	70.00	100.00	3	2
18.125	37.375	70.00	100.00	4	2
18.125	49.625	70.00	100.00	6	2
18.125	57	70.00	85.30	6	2
18.125	62	70.00	78.50	6	2
18.125	73.25	66.80	66.80	6	1
25.5	25	70.00	100.00	4	2
25.5	37.375	70.00	95.00	5	3
25.5	49.625	70.00	77.90	6	2
25.5	57	67.40	67.40	6	2 ·
25.5	62	61.40	61.40	6	2
25.5	73.25	50.40	50.40	6	2
36	25	70.00	91.03	4	3
36	37.375	62.20	62.20	4	3
36	49.625	52.50	52.50	5	3
36	57	49.90	49.90	5	3
36	62	47.40	47.40	6	. 3
36	73.25	41.40	41.40	6	2
52.125	25	60.11	60.11	4	3
52.125	37.375	44.16	44.16	4	3
52.125	49.625	31.40	31.40	4	3
52.125	57	31.00	31.00	5	3
52.125	62	30.80	30.80	5	3
52.125	73.25	29.00	29.00	6	3

Test # FTL 5284 A-5 - 1/8" Tempered

Pressure Limited to Negative 100psf.

Fin Frame w/ Standard Meeting Rail

P(-)

psf

100.00

100.00

P(+)

psf

70.00

70.00

70.00

66.10

57.70

Buck

Width

18.125

18.125

52.125

52.125

52.125

Buck

Height

25

37.375

57

62

73.25

Each Jamb Head & Sill

Anchors

3

6

Anchors

4

10

11

11

#### Test # FTL 5284 A-3 - 1/2" Overall Insulated w/ 1/8" Annealed Pressure Limited to Negative 100psf. Fin Frame w/ Standard Meeting Rail

	Fin Frame w/ Standard Meeting Rail								
Buck	Buck	P(+)	P (-)	Each Jamb	Head & Sill				
Width	Height	psf	psf	Anchors	Anchors				
18.125	25	70.00	100.00	3	2				
18.125	37.375	70.00	100.00	4	2				
18.125	49.625	70.00	100.00	6	2				
18.125	57	70.00	100.00	7	2				
18.125	62	70.00	100.00	7	2				
18.125	73.25	70.00	100.00	9	2				
25.5	25	70.00	100.00	4	2				
25.5	37.375	70.00	100.00	5	3				
25.5	49.625	70.00	100.00	7	3				
25.5	57	70.00	100.00	8	3				
25.5	62	70.00	100.00	9	3				
25.5	73.25	70.00	90.80	10	3				
36	25	70.00	100.00	4	3				
36	37.375	70.00	100.00	6	4				
36	49.625	70.00	94.50	8	4				
36	57	70.00	89.80	9	4				
36	62	70.00	85.30	10	4				
36	73.25	70.00	74.50	11	4 .				
52.125	25	70.00	96.80	6	4				
52.125	37.375	70.00	71.11	6	4 .				
52.125	49.625	56.50	56.50	7	4				
52.125	57	53.41	53.41	7	4				
52.125	62	50.86	50.86	8	4				
52.125	73.25	46.70	46.70	9	4				

### Test # FTL 4350 - 1/2" Overall Insulated w/ 1/8" Annealed Pressure Limited to Negative 100psf.

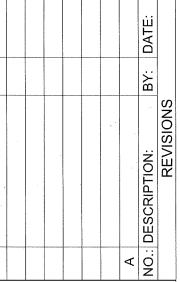
Fin Frame w/ Heavy Duty Rail								
Buck	Buck	P(+)	P (-)	Each Jamb	Head & Sill			
Width	Height	psf	psf	Anchors	Anchors			
18.125	25	70.00	100.00	4	2			
18.125	37.375	70.00	100.00	4	3			
18.125	49.625	70.00	100.00	7	2			
18.125	57	70.00	100.00	7	2			
18.125	62	70.00	100.00	8	2			
18.125	73.25	70.00	100.00	10	2			
25.5	25	70.00	100.00	4	3			
25.5	37.375	70.00	100.00	6	. 3			
25.5	49.625	70.00	100.00	8	3			
25.5	57	70.00	100.00	8	3			
25.5	62	70.00	100.00	10	3			
25.5	73.25	70.00	90.80	11	3			
36	25	70.00	100.00	4	4			
36	37.375	70.00	100.00	7	4			
36	49.625	70.00	94.50	10	4			
36	57	70.00	89.80	10	4			
36	62	70.00	85.30	11	4			
36	73.25	70.00	74.50	11	4			
52.125	25	70.00	100.00	6	6			
52.125	37.375	70.00	84.50	8	6			
52.125	49.625	56.50	56.50	7	4			
52.125	57	55.90	55.90	8 .	6			
52.125	62	55.50	55.50	8	6			
52.125	73.25	52.50	52.50	10	6			

Glazing Description, Details & Options

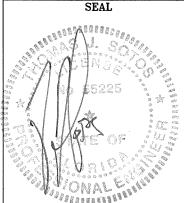
EXT.

1900 SW 44TH AVE OCALA, FLORIDA 34474 www.cws.cc

> CWS 310 SINGLE HUNG **ALUMINUM FIN FRAME** NON-IMPACT WINDOW



THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225



DATE DEC 1 8 2023

DESIGN LOAD CHARTS W/ MONOLITHIC & INSULATED GLASS, GLAZING DETAILS

	DRAWN BY:	DATE:		
	NELSON ERAZO	11/17/2023		
	REV. BY:	DATE:		
•				
5				
	DWG#:		REV #:	
<u> </u>	CWS-1225			
	SCALE:	SH	FFT	

AS NOTED

4 OF 5

Test # FTL 4351 - 1/2" Overall Insulated w/ 1/8" Tempered Pressure Limited to Negative 100psf. Fin Frame w/ Heavy Duty rail

Buck	Buck	P(+)	P (-)	Each Jamb	Head & Sill
Width	Height	psf	psf	Anchors	Anchors
18.125	25	70.00	100.00	4	2
18.125	37.375	70.00	100.00	4	3
18.125	49.625	70.00	100.00	. 7	2
18.125	57	70.00	100.00	7	2
18.125	62	70.00	100.00	8	2
18.125	73.25	70.00	100.00	10	2
25.5	25	70.00	100.00	4	3
25.5	37.375	70.00	100.00	6	3
25.5	49.625	70.00	100.00	8	3
25.5	57	70.00	100.00	8	3
25.5	62	70.00	100.00	10	3
25.5	73.25	70.00	100.00	12	3
36	25	70.00	100.00	4	4
36	37.375	70.00	100.00	7	4
36	49.625	70.00	100.00	10	6
36	57	70.00	100.00	11	6
36	62	70.00	100.00	12	6
36	73.25	70.00	100.00	15	6
52.125	` 25	70.00	100.00	6	6
52.125	37.375	70.00	100.00	8	7
52.125	49.625	70.00	99.87	12	7
52.125	57	70.00	91.49	12	7
52.125	62	70.00	87.12	14	7
52.125	73.25	70.00	80.00	15	7

# EXT. 3/8\* GLAZING BITE

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

#### Glazing Sealant Types & Options

- 1) Schnee-Morehead 5731
- 30 2) Schnee-Morehead 5732 3) GE SCS 1000 Clear Silcone
  - 4) Dow Corning Clear Silcone
- CONSIST OF:
  - 1/8" ANNEALED OR TEMPERED LITE + 1/4" AIR SPACE + 1/8" ANNEALED OR TEMPERED LITE (SEE DESIGN PRESSURE TABLES)

1/2" OVERALL INSULATED GLASS

- Insulated Spacer Types & Options 31 a) "TrueSeal" Swiggle Seal
  - 31 b) "Quanex" SuperSpacer w/ Isomelt M 31 c) "Quanex" Duraseal

3/8\*

GLAZING BITE

By: Manuel Peres Miami-Dade Product Control

18.125 49.625 70.00 100.00 2 18.125 57 70.00 100.00 2 100.00 2 18.125 62 70.00 8 10 18.125 73.25 70.00 100.00 25 70.00 100.00 25.5 4 3 25.5 37.375 70.00 100.00 6 3 25.5 49,625 70.00 100.00 8 3 25.5 57 70.00 100.00 8 3 25.5 62 70.00 100.00 10 3 12 25.5 73.25 70.00 100.00 3 36 25 70.00 100.00 4 4 37.375 70.00 36 100.00 4 36 49.625 70.00 100.00 10 6 36 57 70.00 100.00 11 6 36 70.00 100.00 62 12 6 73.25 70.00 12 36 86.00 4 52.125 25 70.00 100.00 6 52.125 37.375 70.00 100,00 8 52.125 49.625 70.00 93.00 11

74.90

66.10

57.70

PRODUCT REVISED As complying with the Florida Building Code NOA-No. 24-0116.15 Expiration Date: 07/07/2025

