



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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

www.miamidade.gov/economy

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

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "310 (Flange Frame)" Aluminum Single Hung Window - N.I.

APPROVAL DOCUMENT: Drawing No. CWS-1254, titled "CWS 310 Non-Impact Aluminum Single Hung Flange Frame Window", sheets 1 through 5 of 5, dated 11/17/23, with revision A dated 05/15/25, prepared by the manufacturer, signed and sealed by Thomas J. Sotos, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Medley, Florida, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.


ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. 23-1017.06 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.**




6/27/25

NOA No. 25-0612.02
Expiration Date: September 01, 2030
Approval Date: July 03, 2025
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's No. 05-0324.07 and 0-7-0925.11)
2. Drawing No. **L7600-0401**, titled "SH-7500 Single Hung Flange Window", sheets 1 through 5 of 5, dated 09/20/04, with revision **I** dated 10/11/23, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 23-1017.06)

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. 23-1017.06)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum single hung windows - (fin/flange mounted), prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-5283**, dated 08/24/07, signed and sealed by Carlos Rionda, P.E.
(Submitted under NOA No.07-0925.11)
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 - (flange mounted), prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-4323**, **FTL-4343**, **FTL-4344**, **FTL-4345**, **FTL-4346**, **FTL-4350**, **FTL-4351**, **FTL-4363** and **FTL-4364**, all dated 11/08/04 and **FTL-4505** dated 01/25/05, signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No.05-0324.07)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-0612.02
Expiration Date: September 01, 2030
Approval Date: July 03, 2025

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 08/03/09, 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 8th Edition (2023)**, dated October 11, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 23-1017.06)
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. 23-1017.06)
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. 23-1017.06)

G. OTHERS

1. Notice of Acceptance No. **20-0713.02**, issued to Lawson Industries, Inc. for their Series "SH-7500 (Flange Frame)" Aluminum Single Hung Window – N.I., approved on 08/20/20 and expiring on 09/01/25.

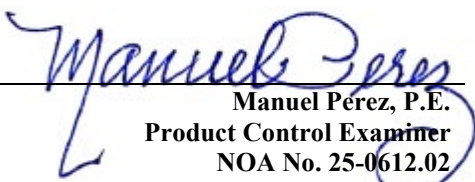
2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **CWS-1254**, titled "CWS 310 Non-Impact Aluminum Single Hung Flange Frame Window", sheets 1 through 5 of 5, dated 11/17/23, with revision **A** dated 05/15/25, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.

B. TESTS

1. None.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-0612.02
Expiration Date: September 01, 2030
Approval Date: July 03, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

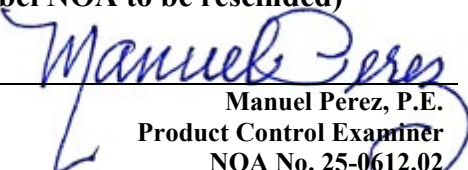
1. None.

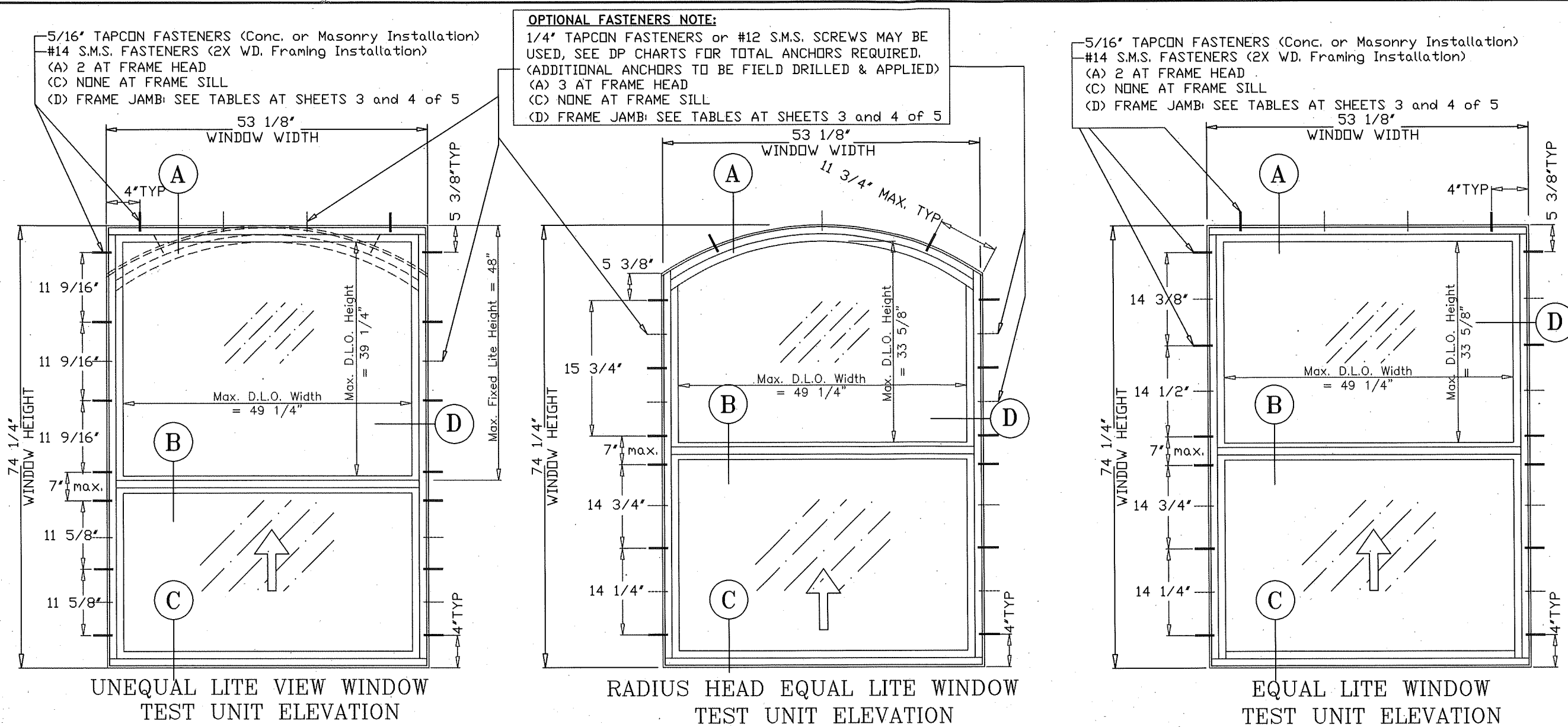
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated June 9, 2025, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
2. Statement letter of no financial interest, dated June 9, 2025, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
3. Bill of Sales between CWS-SF, LLC (Buyer) and Lawson Industries, Inc. (Seller), dated Nov. 28, 2023, signed by Nicholas Cross (President, CWS) and Harold Bailey (President, Lawson Industries).
4. Statement letter dated June 5, 2025, confirming that Custom Window System, Inc. is a wholly owned subsidiary of Pella Corporation, signed by Chantel Kramme, Secretary Pella Corp.
5. Letter from owners of existing NOA, stating that they have sold all assets to the applicant, that they no longer manufacture the product, relinquish their rights to the current NOA and request that it be rescinded, dated June 10, 2025, signed by Mr. Harold Bailey, President, Lawson Industries, Inc.
6. Statement letter dated June 25, 2025, issued by Custom Window Systems, Inc. (CWS) stating that they have legally purchased all assets of (18) listed NOA's from Lawson Industries, Inc. and requesting that new corresponding NOA's be issued to CWS name; also, that (18) listed Private Label Agreement NOA's between Lawson Industries, Inc. and CWS be rescinded, signed by Kevin Pine, Vice President.

G. OTHERS

1. Notice of Acceptance No. **23-1017.06**, issued to Lawson Industries, Inc. for their Series "SH-7500 (Flange Frame)" Aluminum Single Hung Window – N.I., approved on 11/16/23 and expiring on 09/01/25. **(Previous NOA to be rescinded)**
2. Notice of Acceptance No. **24-0116.14**, issued to Custom Window Systems, Inc. for their Series "CWS-310 (Flange Frame)" Aluminum Single Hung Window – N.I., approved on 02/01/24 and expiring on 09/01/25. **(Private Label NOA to be rescinded)**


Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-0612.02
Expiration Date: September 01, 2030
Approval Date: July 03, 2025



CWS 310 ALUMINUM NON-IMPACT FLANGE FRAME 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 MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS.
- 2.) 1 X OR 2 X WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF F.B.C. & TO BE REVIEWED BY THE BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ABOVE ARE AS PER TEST UNITS. INTERIOR ANCHOR SPACINGS WILL VARY WITH UNIT DIMENSIONS, AND THE NUMBER OF ANCHORS REQUIRED, AS SPECIFIED ON THE LOAD TABLES.
- 4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWING'S ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 5.) RADIUS HEAD WINDOWS ARE QUALIFIED FOR USE WITH ALL GLASS TYPES TABULATED HEREIN.
- 6.) VIEW WINDOWS ARE QUALIFIED FOR USE WITH 3/16" ANNEALED & 3/16" TEMPERED GLASS USING THE HEAVY DUTY MEETING RAIL ONLY.
- 7.) SEE PAGE 4 FOR LOCK OPTIONS.
- 8.) APPROVAL APPLIES TO SINGLE UNITS OR MULTIPLE UNITS AND MAY BE MULLED VERTICALLY OR HORIZONTALLY.
- 9.) 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 DESIGN PRESSURE FROM THE WINDOWS OR MULLION APPROVAL WILL APPLY TO THE ENTIRE MULLED SYSTEM.
- 10.) SEE SHEET # 4 FOR MULLION/METAL ATTACHMENT DETAILS & NOTES.

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

PRODUCT REVISED
 As complying with the Florida Building Code
 NOA-No. **25-0612.02**
 Expiration Date: **09/01/2030**
 By: *Manuel Torres*
 Miami-Dade Product Control

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

CWS 310 NON-IMPACT ALUMINUM SINGLE HUNG FLANGE FRAME WINDOW

REVISIONS	
NO.	DESCRIPTION
A	Revises NDA # 23-1017.06
	NE. BY: DATE: 05/15/25

THOMAS J. SOTOS
 PROFESSIONAL ENGINEER
 FL LIC. # 55225

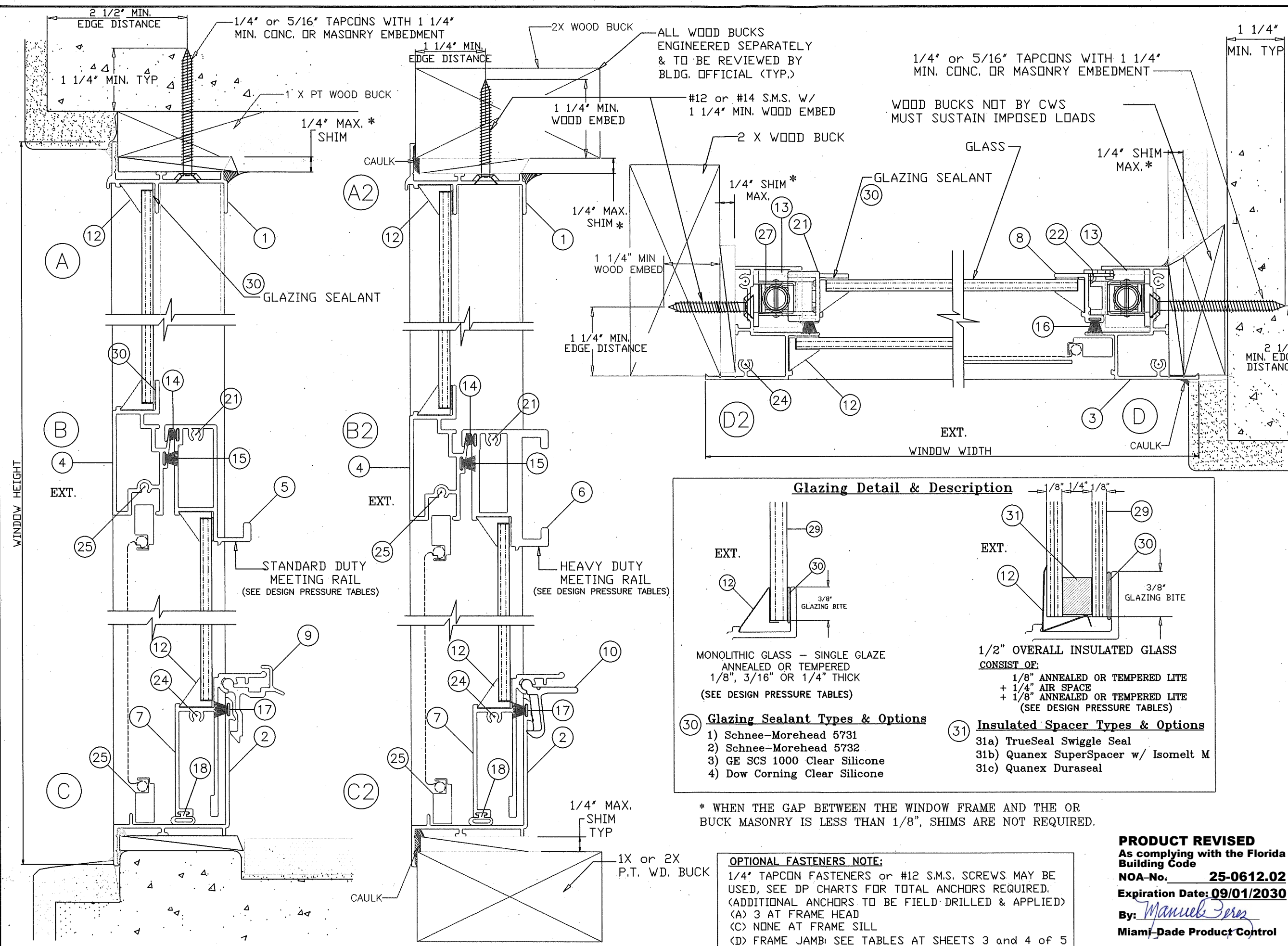
SEAL

DATE **JUN 09 2025**

SHEET DESCRIPTION:

APPROVED ELEVATIONS, CONFIGURATIONS AND GENERAL NOTES

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1254	
SCALE:	SHEET
AS NOTED	1 OF 5



Glazing Detail & Description

EXT.

(12)

(30)

3/8" GLAZING BITE

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

30) Glazing Sealant Types & Options

- 1) Schnee-Morehead 5731
- 2) Schnee-Morehead 5732
- 3) GE SCS 1000 Clear Silicone
- 4) Dow Corning Clear Silicone

EXT.

(12)

(31)

(29)

(30)

3/8" GLAZING BITE

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

31) Insulated Spacer Types & Options

- 31a) TrueSeal Swiggle Seal
- 31b) Quanex SuperSpacer w/ Isomelt M
- 31c) Quanex Duraseal

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

OPTIONAL FASTENERS NOTE:
1/4" TAPCON FASTENERS or #12 S.M.S. SCREWS MAY BE USED, SEE DP CHARTS FOR TOTAL ANCHORS REQUIRED. (ADDITIONAL ANCHORS TO BE FIELD DRILLED & APPLIED)
(A) 3 AT FRAME HEAD
(C) NONE AT FRAME SILL
(D) FRAME JAMB; SEE TABLES AT SHEETS 3 and 4 of 5

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **25-0612.02**
Expiration Date: **09/01/2030**
By: *Manuel Perez*
Miami-Dade Product Control

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

CWS 310 NON-IMPACT ALUMINUM SINGLE HUNG FLANGE FRAME WINDOW

REVISIONS			
NO.	DESCRIPTION	BY	DATE
A	Revises NOA # 23-1017.06	N.E.	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

JUN 09 2025

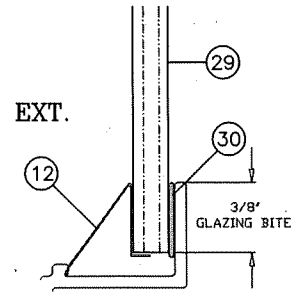
CROSS SECTIONAL DETAILS FOR STANDARD AND HEAVY DUTY MEETING RAILS

DRAWN BY: NELSON ERAZO	DATE: 11/17/2023
REV. BY: N.E.	DATE: 05/15/2025
DWG #: CWS-1254	REV #:
SCALE: AS NOTED	SHEET 2 OF 5

Flange Frame w/ Standard Meeting Rail Test # FTL 4505 - 3/16" Annealed Negative Pressure Limited to 100psf.							
Width (in)	Height (in)	P(+) psf	P(-) psf	#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
				Jamb Anchors	Head Anchors	Jamb Anchors	Head Anchors
19.125	26	70.0	100.0	2	2	2	2
26.5	26	70.0	100.0	2	2	2	2
37	26	70.0	100.0	2	2	4	3
53.125	26	70.0	100.0	3	2	5	3
19.125	38.375	70.0	100.0	3	2	3	2
26.5	38.375	70.0	100.0	2	2	4	2
37	38.375	70.0	100.0	3	2	5	3
53.125	38.375	70.0	76.8	4	2	6	3
19.125	50.625	70.0	100.0	2	2	3	2
26.5	50.625	70.0	100.0	3	2	5	2
37	50.625	70.0	100.0	4	2	7	3
53.125	50.625	62.6	62.6	4	2	6	3
19.125	58	70.0	100.0	3	2	4	2
26.5	58	70.0	100.0	3	2	6	2
37	58	70.0	98.3	5	2	8	3
53.125	58	57.3	57.3	4	2	7	3
19.125	63	70.0	100.0	3	2	4	2
26.5	63	70.0	100.0	3	2	6	2
37	63	70.0	92.1	5	2	8	3
53.125	63	54.5	54.5	4	2	7	3
19.125	74.25	70.0	100.0	3	2	5	2
26.5	74.25	70.0	100.0	4	2	7	2
37	74.25	70.0	85.6	5	2	9	3
53.125	74.25	50.0	50.0	4	2	7	3

Flange Frame w/ Standard Meeting Rail Test # FTL 5283 A-1 - 1/4" Annealed Negative Pressure Limited to 100psf.							
Width (in)	Height (in)	P(+) psf	P(-) psf	#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
				Jamb Anchors	Head Anchors	Jamb Anchors	Head Anchors
19.125	26	70.0	100.0	2	2	2	2
26.5	26	70.0	100.0	2	2	2	2
37	26	70.0	100.0	2	2	4	2
53.125	26	70.0	100.0	3	2	5	3
19.125	38.375	70.0	100.0	2	2	3	2
26.5	38.375	70.0	100.0	2	2	4	2
37	38.375	70.0	100.0	3	2	5	2
53.125	38.375	70.0	88.6	4	2	6	3
19.125	50.625	70.0	100.0	2	2	3	2
26.5	50.625	70.0	100.0	3	2	5	2
37	50.625	70.0	100.0	4	2	7	3
53.125	50.625	70.0	72.3	4	2	7	3
19.125	58	70.0	100.0	3	2	4	2
26.5	58	70.0	100.0	3	2	6	2
37	58	70.0	100.0	5	2	8	3
53.125	58	66.1	66.1	4	2	7	3
19.125	63	70.0	100.0	3	2	4	2
26.5	63	70.0	100.0	3	2	6	2
37	63	70.0	100.0	5	2	9	3
53.125	63	62.9	62.9	4	2	7	3
19.125	74.25	70.0	100.0	3	2	5	2
26.5	74.25	70.0	100.0	4	2	7	2
37	74.25	70.0	100.0	6	2	10	3
53.125	74.25	57.7	57.7	5	2	8	3

Flange Frame w/ Standard Duty Rail Test # FTL 5283 A-2 & A-4 - 1/8" Annealed Negative Pressures limited to 100psf.							
Width (in)	Height (in)	P(+) psf	P(-) psf	#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
				Jamb Anchors	Head Anchors	Jamb Anchors	Head Anchors
19.125	26	70.0	100.0	2	2	2	2
26.5	26	70.0	100.0	2	2	2	2
37	26	70.0	93.8	2	2	4	2
53.125	26	61.4	61.4	2	2	2	2
19.125	38.375	70.0	100.0	2	2	3	2
26.5	38.375	70.0	100.0	2	2	4	2
37	38.375	70.0	70.8	2	2	4	2
53.125	38.375	44.6	44.6	2	2	4	2
19.125	50.625	70.0	100.0	2	2	3	2
26.5	50.625	70.0	95.6	3	2	5	2
37	50.625	60.4	60.4	2	2	4	2
53.125	50.625	36.3	36.3	2	2	4	2
19.125	58	70.0	100.0	3	2	4	2
26.5	58	70.0	86.7	3	2	5	2
37	58	57.0	57.0	2	2	5	2
53.125	58	33.2	33.2	2	2	4	2
19.125	63	70.0	92.3	3	2	4	2
26.5	63	70.0	81.1	3	2	5	2
37	63	55.6	55.6	3	2	5	2
53.125	63	31.6	31.6	2	2	4	2
19.125	74.25	70.0	81.6	3	2	4	2
26.5	74.25	67.4	67.4	3	2	5	2
37	74.25	53.8	53.8	3	2	6	2
53.125	74.25	29.0	29.0	2	2	4	2



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

GLAZING DETAIL

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

Flange Frame w/ Heavy Duty Rail - TABLE V-1								
Test #FTL 4363 - 3/16" Annealed View								
Negative Pressures Limited to 100psf.								
					#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
CODE SIZE	Width (in)	Height (in)	P(+) psf	P(-) psf	Jamb Anchors	H&S Anchors	Jamb Anchors	H&S Anchors
14-2	19.125	50.625	70.0	100.0	3	2	5	2
14-3	19.125	50.625	70.0	100.0	4	2	6	2
15-3	19.125	63	70.0	100.0	4	2	6	2
15-4	19.125	63	70.0	100.0	4	2	7	2
16-4	19.125	74.25	70.0	100.0	4	2	7	2
16-45	19.125	74.25	70.0	100.0	4	2	7	2
16-5	19.125	74.25	70.0	100.0	4	2	7	2
H4-2	26.5	50.625	70.0	100.0	3	2	4	2
H4-3	26.5	50.625	70.0	100.0	4	2	5	2
H5-3	26.5	63	70.0	86.7	3	2	5	2
H5-4	26.5	63	70.0	100.0	4	2	6	2
H6-4	26.5	74.25	70.0	78.0	3	2	5	2
H6-45	26.5	74.25	70.0	84.9	3	2	5	2
H6-5	26.5	74.25	70.0	88.9	3	2	6	2
24-2	37	50.625	70.0	100.0	4	2	6	2
24-3	37	50.625	70.0	90.6	3	2	5	2
25-3	37	63	70.0	73.3	3	2	5	2
25-4	37	63	70.0	83.6	3	2	6	2
26-4	37	74.25	64.4	64.4	4	2	5	2
26-45	37	74.25	70.0	71.7	4	2	6	2
26-5	37	74.25	70.0	75.3	4	2	6	2
34-2	53.125	50.625	59.0	59.0	3	2	4	2
34-3	53.125	50.625	62.4	62.4	3	2	4	2
35-3	53.125	63	55.3	55.3	3	2	5	2
35-4	53.125	63	54.8	54.8	3	2	5	2
36-4	53.125	74.25	51.0	51.0	3	2	5	2
36-45	53.125	74.25	50.8	50.8	3	2	5	2
36-5	53.125	74.25	50.0	50.0	3	2	5	2

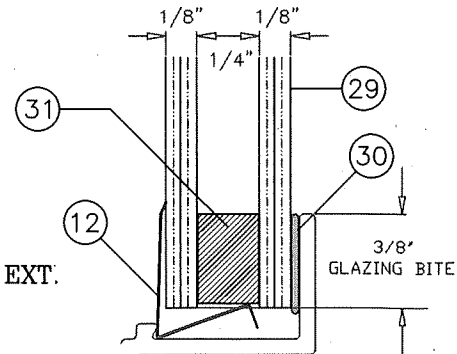
Flange Frame w/ Heavy Duty Rail Test # FTL 4323 - 3/16" Tempered Negative Pressure Limited to 100psf.							
Width (in)	Height (in)	P(+) psf	P(-) psf	#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
				Jamb Anchors	Head Anchors	Jamb Anchors	Head Anchors
19.125	26	70.0	100.0	2	2	2	2
26.5	26	70.0	100.0	2	2	2	2
37	26	70.0	100.0	2	2	4	2
53.125	26	70.0	100.0	2	2	5	3
19.125	38.375	70.0	100.0	2	2	3	2
26.5	38.375	70.0	100.0	2	2	4	2
37	38.375	70.0	100.0	2	2	5	2
53.125	38.375	70.0	100.0	4	2	7	4
19.125	50.625	70.0	100.0	2	2	3	2
26.5	50.625	70.0	100.0	3	2	5	2
37	50.625	70.0	100.0	4	2	7	3
53.125	50.625	70.0	100.0	6	2	8	4
19.125	58	70.0	100.0	3	2	4	2
26.5	58	70.0	100.0	3	2	6	2
37	58	70.0	100.0	5	2	8	3
53.125	58	70.0	91.6	6	2	9	4
19.125	63	70.0	100.0	3	2	4	2
26.5	63	70.0	100.0	3	2	6	2
37	63	70.0	100.0	5	2	8	4
53.125	63	70.0	87.2	6	2	9	4
19.125	74.25	70.0	100.0	3	2	5	2
26.5	74.25	70.0	100.0	4	2	7	2
37	74.25	70.0	100.0	6	2	10	3
53.125	74.25	70.0	80.0	6	2	10	4

Range Frame w/ Heavy Duty Rail - TABLE V2								
Test #FTL 4345 - 3/16" Tempered View								
Negative Pressure Limited to 100psf.								
CODE SIZE	Width (in)	Height (in)	P(+) psf	P(-) psf	#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
					Jamb Anchors	Head Anchors	Jamb Anchors	Head Anchors
14-2	19.125	50.625	70.0	100.0	2	2	3	2
14-3	19.125	50.625	70.0	100.0	2	2	3	2
15-3	19.125	63	70.0	100.0	3	2	4	2
15-4	19.125	63	70.0	100.0	3	2	4	2
16-4	19.125	74.25	70.0	100.0	3	2	5	2
16-45	19.125	74.25	70.0	100.0	3	2	5	2
16-5	19.125	74.25	70.0	100.0	3	2	5	2
H4-2	26.5	50.625	70.0	100.0	3	2	4	2
H4-3	26.5	50.625	70.0	100.0	3	2	5	2
H5-3	26.5	63	70.0	100.0	3	2	6	2
H5-4	26.5	63	70.0	100.0	3	2	6	2
H6-4	26.5	74.25	70.0	100.0	4	2	7	2
H6-45	26.5	74.25	70.0	100.0	4	2	7	2
H6-5	26.5	74.25	70.0	100.0	4	2	7	2
24-2	37	50.625	70.0	100.0	3	2	6	2
24-3	37	50.625	70.0	100.0	4	2	6	2
25-3	37	63	70.0	100.0	5	2	8	2
25-4	37	63	70.0	100.0	5	2	9	3
26-4	37	74.25	70.0	100.0	6	2	9	4
26-45	37	74.25	70.0	100.0	6	2	9	4
26-5	37	74.25	70.0	100.0	6	2	9	4
34-2	53.125	50.625	70.0	100.0	5	2	8	2
34-3	53.125	50.625	70.0	100.0	5	2	8	3
35-3	53.125	63	70.0	93.0	6	2	9	4
35-4	53.125	63	70.0	87.6	5	2	9	4
36-4	53.125	74.25	70.0	84.1	6	2	9	4
36-45	53.125	74.25	70.0	81.3	6	2	10	4
36-5	53.125	74.25	70.0	80.0	6	2	10	4

Flange Frame w/ Standard Meeting Rail							
Test # FTL 5283 A-5 - 1/8" Tempered							
Negative Pressure Limited to 100psf.							
				#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
Width (in)	Height (in)	P(+) psf	P(-) psf	Jamb Anchors	Head Anchors	Jamb Anchors	Head Anchors
19.125	26	70.0	100.0	2	2	2	2
26.5	26	70.0	100.0	2	2	2	2
37	26	70.0	100.0	2	2	4	2
53.125	26	70.0	100.0	2	2	5	3
19.125	38.375	70.0	100.0	2	2	3	2
26.5	38.375	70.0	100.0	2	2	4	2
37	38.375	70.0	100.0	2	2	5	2
53.125	38.375	70.0	88.6	3	2	6	3
19.125	50.625	70.0	100.0	2	2	3	2
26.5	50.625	70.0	100.0	3	2	5	2
37	50.625	70.0	100.0	3	2	7	3
53.125	50.625	70.0	72.3	3	2	7	3
19.125	58	70.0	100.0	3	2	4	2
26.5	58	70.0	100.0	3	2	6	2
37	58	70.0	100.0	4	2	8	3
53.125	58	66.1	66.1	3	2	7	3
19.125	63	70.0	100.0	3	2	4	2
26.5	63	70.0	100.0	3	2	6	2
37	63	70.0	100.0	4	2	9	3
53.125	63	62.9	62.9	3	2	5	3
19.125	74.25	70.0	100.0	3	2	5	2
26.5	74.25	70.0	100.0	4	2	7	2
37	74.25	70.0	100.0	5	2	10	3
53.125	74.25	57.7	57.7	4	2	9	3

Flange Frame w/ Standard Meeting Rail							
Test # FTL 5283 A-3 - 1/2" Overall Insulated w/ 1/8" Annealed							
Negative Pressure Limited to 100psf.							
				#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
Width (in)	Height (in)	P(+) psf	P(-) psf	Jamb Anchors	Head Anchors	Jamb Anchors	Head Anchors
19.125	26	70.0	100.0	2	2	4	2
26.5	26	70.0	100.0	3	2	5	2
37	26	70.0	100.0	4	2	6	3
53.125	26	70.0	100.0	3	2	6	3
19.125	38.375	70.0	100.0	3	2	6	2
26.5	38.375	70.0	100.0	5	2	8	3
37	38.375	70.0	100.0	4	2	7	3
53.125	38.375	70.0	80.7	4	2	6	3
19.125	50.625	70.0	100.0	4	2	7	2
26.5	50.625	70.0	100.0	5	2	8	3
37	50.625	70.0	100.0	5	2	8	3
53.125	50.625	65.8	65.8	4	2	7	3
19.125	58	70.0	100.0	4	2	8	2
26.5	58	70.0	100.0	5	2	8	2
37	58	70.0	100.0	5	2	8	3
53.125	58	60.1	60.1	4	2	7	3
19.125	63	70.0	100.0	4	2	7	2
26.5	63	70.0	100.0	5	2	8	2
37	63	70.0	100.0	5	2	9	3
53.125	63	57.2	57.2	4	2	7	3
19.125	74.25	70.0	100.0	4	2	7	2
26.5	74.25	70.0	100.0	5	2	8	2
37	74.25	70.0	96.9	6	2	10	3
53.125	74.25	52.5	52.5	5	2	8	3

Flange Frame w/ Heavy Duty Rail							
Test #FTL 4351 - 1/2" Overall Insulated w/ 1/8" Tempered							
Negative Pressure Limited to 100psf.							
				#14 or 5/16" Tapcons		#12 or 1/4" Tapcons	
Width (in)	Height (in)	P(+) psf	P(-) psf	Jamb Anchors	Head Anchors	Jamb Anchors	Head Anchors
19.125	26	70.0	100.0	2	2	2	2
26.5	26	70.0	100.0	2	2	2	2
37	26	70.0	100.0	2	2	4	2
53.125	26	70.0	100.0	3	2	4	4
19.125	38.375	70.0	100.0	2	2	3	2
26.5	38.375	70.0	100.0	2	2	4	2
37	38.375	70.0	100.0	3	2	5	2
53.125	38.375	70.0	100.0	4	2	7	4
19.125	50.625	70.0	100.0	2	2	3	2
26.5	50.625	70.0	100.0	3	2	5	2
37	50.625	70.0	100.0	4	2	7	3
53.125	50.625	70.0	100.0	5	2	8	4
19.125	58	70.0	100.0	3	2	4	2
26.5	58	70.0	100.0	3	2	6	2
37	58	70.0	100.0	5	2	8	3
53.125	58	70.0	91.6	5	2	9	4
19.125	63	70.0	100.0	3	2	4	2
26.5	63	70.0	100.0	3	2	6	2
37	63	70.0	100.0	5	2	8	4
53.125	63	70.0	87.2	5	2	9	4
19.125	74.25	70.0	100.0	3	2	5	2
26.5	74.25	70.0	100.0	4	2	7	2
37	74.25	70.0	100.0	6	2	10	3
53.125	74.25	70.0	80.0	6	2	10	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)

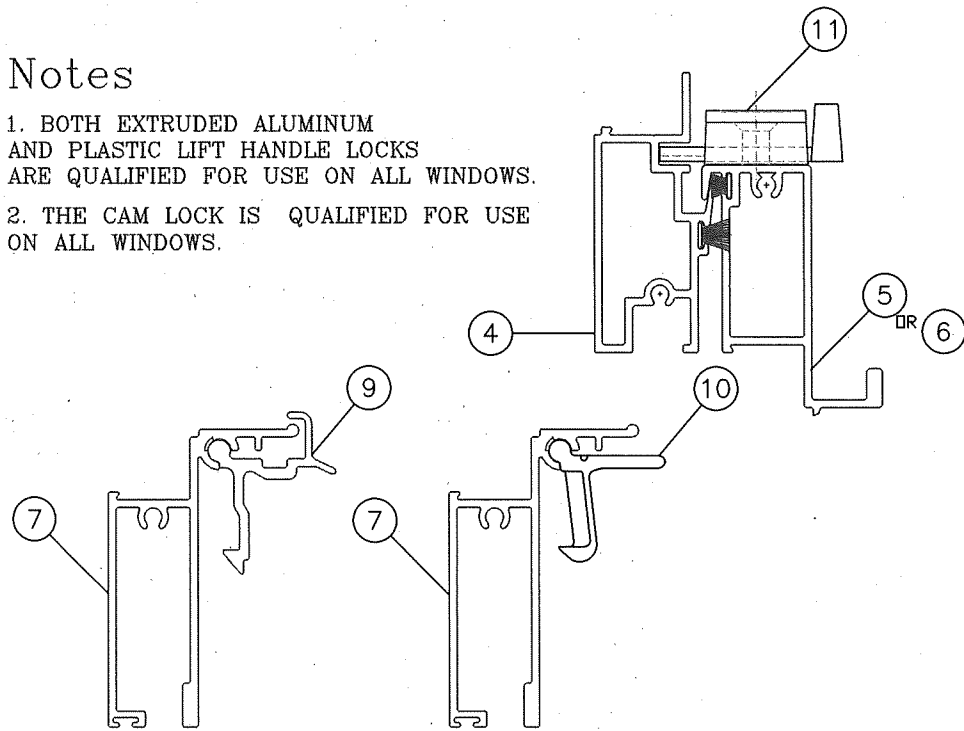
GLAZING DETAIL & DESCRIPTION

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

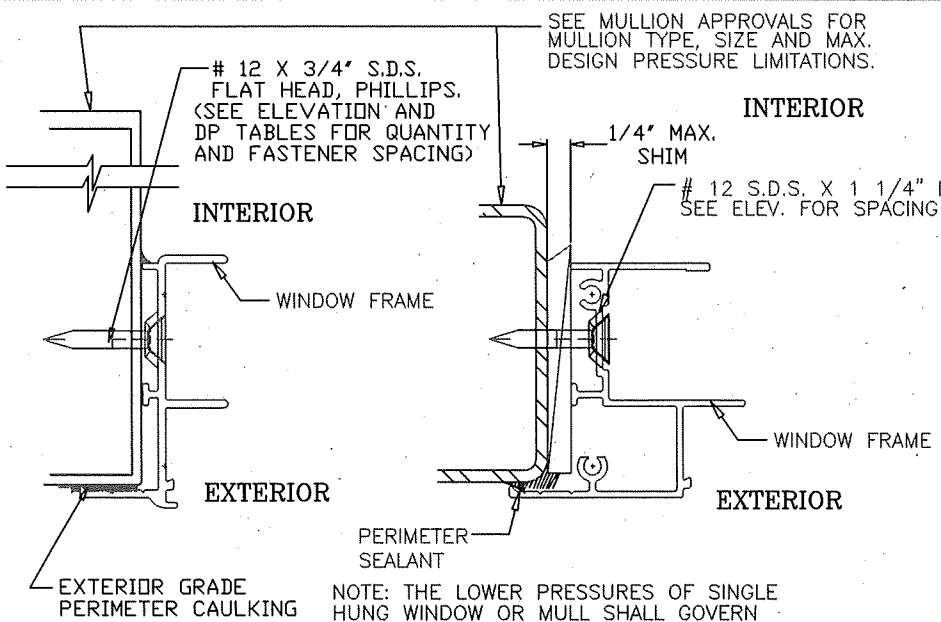
- 31 Insulated Spacer Types & Options
31 a) "TrueSeal" Swiggle Seal
31 b) "Quanex" SuperSpacer w/ Isomelt M
31 c) "Quanex" Duraseal

Notes

1. BOTH EXTRUDED ALUMINUM AND PLASTIC LIFT HANDLE LOCKS ARE QUALIFIED FOR USE ON ALL WINDOWS.
2. THE CAM LOCK IS QUALIFIED FOR USE ON ALL WINDOWS.



LOCK (LATCH AND SWEEP) OPTIONS



(E)

MULLION & METAL STRUCTURE ATTACHMENT DETAIL

NOTE: THE LOWER PRESSURES OF SINGLE HUNG WINDOW OR MULL SHALL GOVERN

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

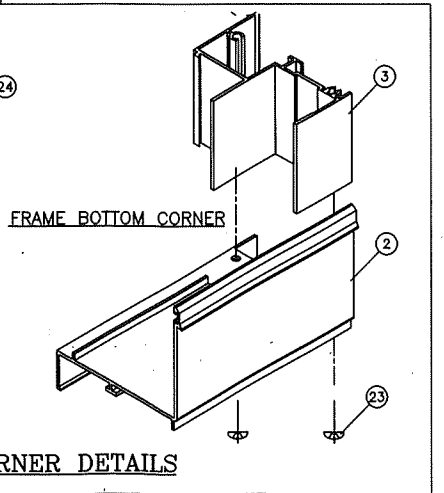
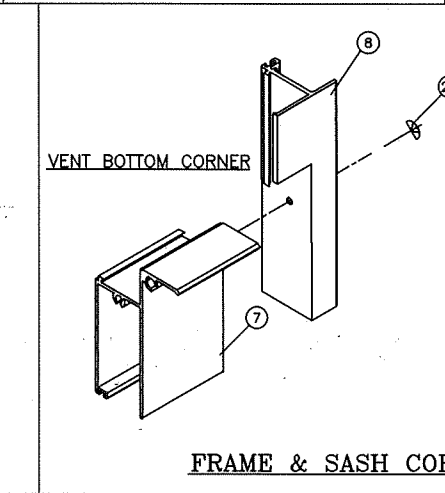
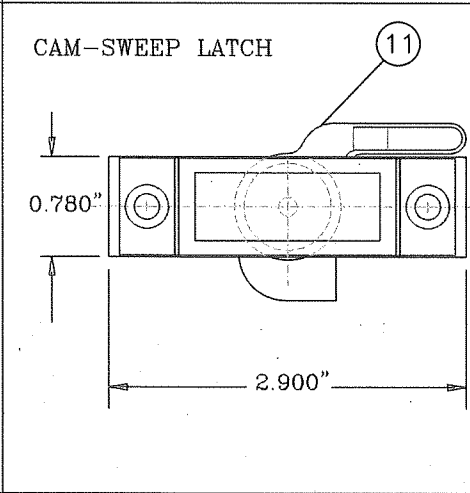
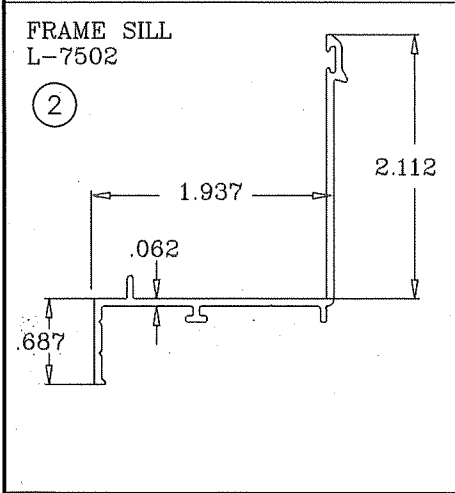
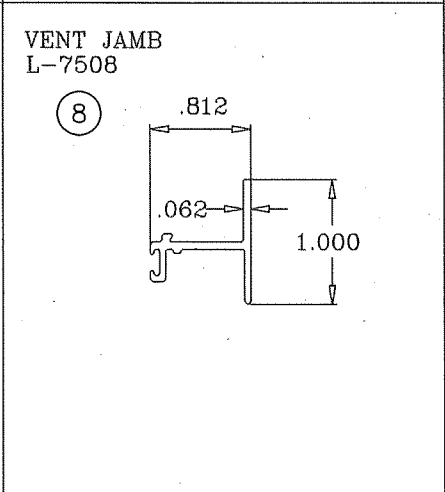
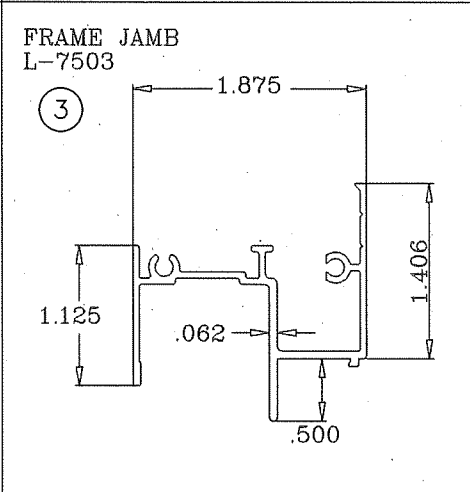
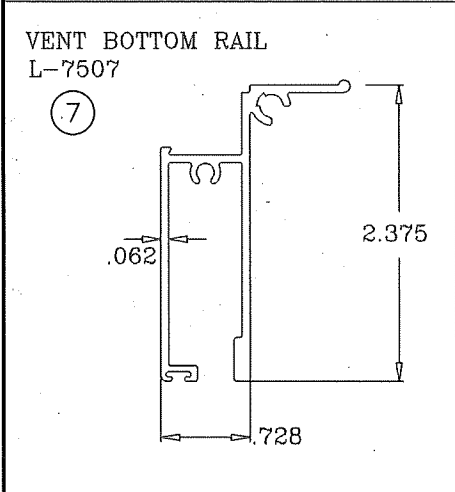
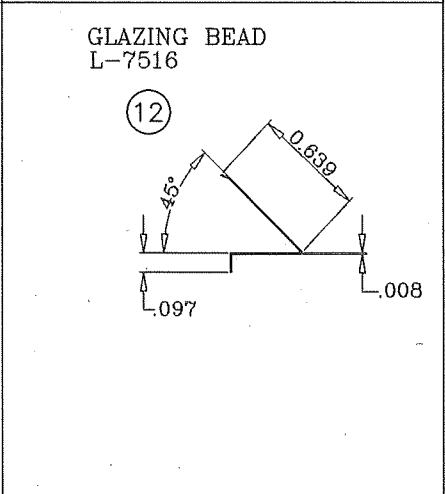
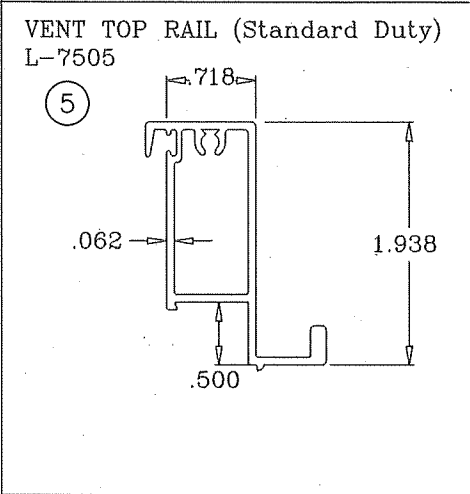
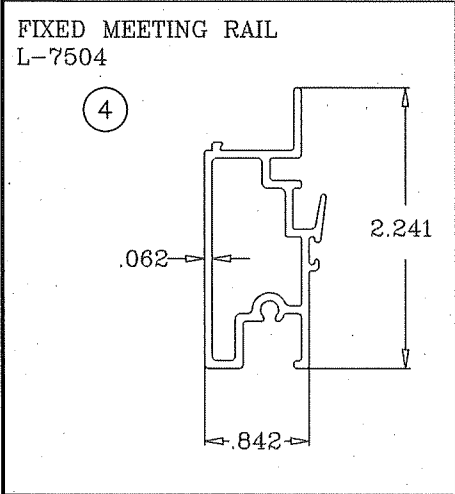
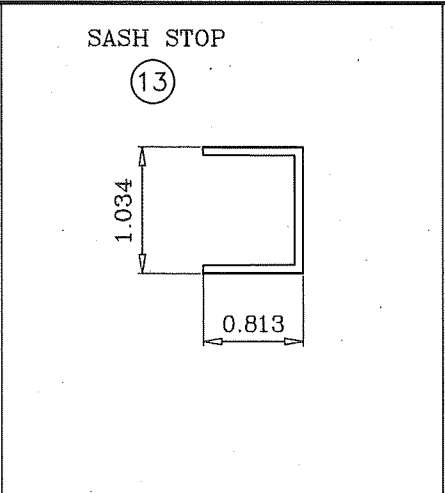
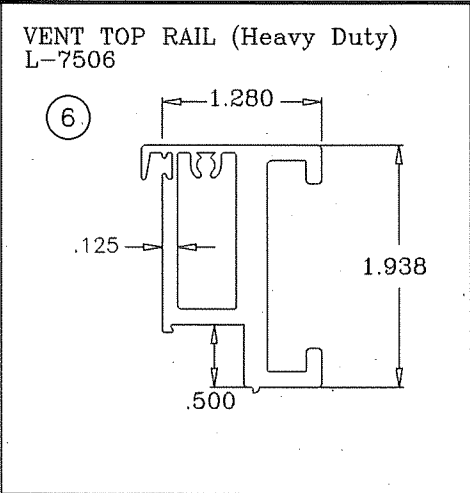
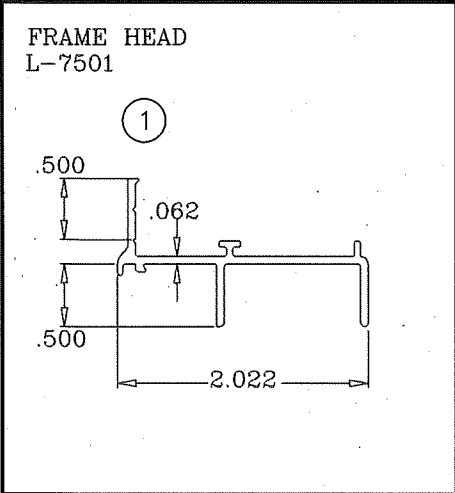
PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-0612.02
Expiration Date: 09/01/2030
By: *Manuel Perez*
Miami-Dade Product Control



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


CWS 310 NON-IMPACT ALUMINUM SINGLE HUNG FLANGE FRAME WINDOW

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FRAME & SASH CORNER DETAILS

CWS 310 FLANGE WINDOW BILL OF MATERIALS					
ITEM #	PART #	DRWG. #	REQD.	DESCRIPTION	REMARKS
1	L-7501	LII-121	1	FRAME HEAD	6063-T6 ALUMINUM
2	L-7502	LII-120	1	FRAME SILL	6063-T6 ALUMINUM
3	L-7503	LII-127	2	FRAME JAMB	6063-T6 ALUMINUM
4	L-7504	LII-129	1	FIXED MEETING RAIL	6005-T5 ALUMINUM
5	L-7505	LII-125	1	VENT TOP RAIL STD. DUTY	6005-T5 ALUMINUM
6	L-7506	LII-126	1	VENT TOP RAIL HVY DUTY	6005-T5 ALUMINUM
7	L-7507	LII-136	1	VENT BOTTOM RAIL	6005-T5 ALUMINUM
8	L-7508	LII-124	1	VENT JAMB	6063-T5 ALUMINUM
9	*	*	2	VENT LATCH / LIFT LOCK	6063-T6 ALUMINUM
10	*	HC-057	2	VENT LATCH / LIFT LOCK	INJECTED MOLDED
11	*	*	2	VENT LATCH / SWEEP	DIE CAST
12	*	*	AS REQD.	GLAZING BEAD	ROLL FORMED ALUMINUM
13	*	*	2	VENT/SASH STOP	Rigid Vinyl PVC
14	*	SCHLEGEL	AS REQD.	TOP RAIL WEATHERSTRIP	.187" X 150' PILE
15	*	ULTRAFAB	AS REQD.	FXD. RAIL WEATHERSTRIP	.187" X 250' FIN SEAL
16	*	ULTRAFAB	AS REQD.	VENT JAMB WEATHERSTRIP	.187" X .280' FIN SEAL
17	*	ULTRAFAB	AS REQD.	FRAME SILL WEATHERSTRIP	.187" X .250' FIN SEAL
18	*	*	AS REQ'D.	3/8" PVC WEATHERSTRIP	3/8" DIA. DURDMETER 65
19	*	*	2	VENT/SILL OPEN CELL PAD	1"x1"x1/2" FOAM PAD
20	*	*	2	SILL/JAMB JOINT GASKET	1/16" CLOSED CELL FOAM
21	L-7523	*	2	VENT TOP GUIDE / CAM	1 AT EACH END OF RAIL
22	L-7524	HC-033	4	VENT JAMB FACE GUIDE	2 PER VENT JAMB
23	*	*	8	FRAME ASSEMBLY SCREWS	# 8 X 3/4" P.H. PHIL.
24	*	*	4	VENT ASSEMBLY SCREWS	# 8 X 1" P.H. PHILLIPS
25	*	*	2	FXD. MTG. RAIL SCREW	# 8 X 1" P.H. PHILLIPS
26	*	*	16 max.	2X FRAME INSTALL'N SCREW	#12 or #14 SMS F.H./PHI.
26	*	*	16 max.	CONC. INSTALL'N SCREW	1/4" or 5/16" TAPCON F.H.
27	L-7527	*	2	BLOCK & TACKLE BALANCE	1 PER JAMB
28	*	*	1	INSECT SCREEN	*
29	*	*	2	GLASS @ TOP & BOTTOM	See Detail @ sheet 2 of 5
30	*	*	AS REQ'D	GLAZING SILICONE	See Detail @ sheet 2 of 5
31 a	True Seal	774-25B-767	AS REQ'D	Insulated Swiggle Spacer	Black -1/4" air space
31 b	Quanex	*	AS REQ'D	Insulated SuperSpacer	Black -1/4" air space
31 c	Quanex	*	AS REQ'D	Insulated Duraseal Spacer	Black -1/4" air space



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

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

NO.	DESCRIPTION	BY	DATE
A	Revises NOA # 23-1017.06	NE	05/15/25

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

DATE JUN 09 2025

DATE JUN 09 2025

SHEET DESCRIPTION:

**BILL OF MATERIALS,
EXTRUSION DETAILS &
CORNER ASSEMBLY
DETAILS**

DRAWN BY:	DATE:
NELSON ERAZO	11/17/2023
REV. BY:	DATE:
N.E.	05/15/2025
DWG #:	REV #:
CWS-1254	
SCALE:	SHEET
AS NOTED	5 OF 5

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0612.02**
Expiration Date: **09/01/2030**
By: *Manuel Perez*
Miami-Dade Product Control