



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/building

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

SCOPE:

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

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

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

DESCRIPTION: Series "CWS-330 (Flange & Fin Frame)" Aluminum Fixed Window - N.I.

APPROVAL DOCUMENT: Drawing No. CWS-1258 Rev A (former L-4000 / 6000.01), titled "Series CWS 330 Aluminum NI Flange & Frame Picture Windows", sheets 1 through 12 of 12, dated 10/11/23 and last revised on JUN 09, 2025 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. HVHZ approved Hurricane Protection required.

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 NOA No. 23-1017.10 (Lawson Industries, Inc.) 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 Ishaq I. Chanda, P.E.



7/1/25

NOA No. 25-0612.05
Expiration Date: May 08, 2028
Approval Date: July 10, 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 No. 09-0825.09)
2. Drawing No. **L-4000 / 6000.01**, titled "Series 4000 / 6000 Aluminum Fixed Windows", sheets 1 through 12 of 12 dated 11/01/17, with revision **G** dated 08/10/20, prepared by manufacturer, and signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 23-0314.03)

B. TESTS

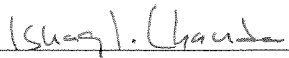
1. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-09-2604**, dated 08/14/09, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 09-0825.09)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-3619**, dated 11/27/02 and **FTL-3627** dated 11/27/02, signed and sealed by Joseph C. Chan, P.E.
(Submitted under NOA No. 03-0128.06)
3. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: **FTL-3620**, **FTL-3621**, **FTL-3622**, **FTL-3623**, **FTL-3624**, **FTL-3625**, **FTL-3626**, all dated 11/27/02, all signed and sealed by Joseph C. Chan, P.E.
(Submitted under NOA No. 03-0128.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, dated 08/15/09, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 09-0825.09)
2. Glazing complies with **ASTM E1300-04/09**

D. QUALITY ASSURANCE

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



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 25-0612.05
Expiration Date: May 08, 2028
Approval Date: July 10, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, issued by manufacturer, dated March 08, 2023, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 23-0314.03)
2. Department of State Certification of **LAWSON INDUSTRIES, INC.** as a for profit corporation, active and organized under the laws of the State of Florida, dated 04/11/14 and filed at the Secretary of State.
(Submitted under NOA No. 14-0908.19)
3. Statement letter of no financial interest, dated 08/13/09, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 09-0825.09)
4. Laboratory compliance letter for Test Report No. **HETI-09-2604**, dated 08/14/09, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No.09-0825.09)
5. Laboratory compliance letter for Test Reports No.: **FTL-3619, FTL-3620, FTL-3621, FTL-3622, FTL-3623, FTL-3624, FTL-3625, FTL-3626, FTL-3627**, all dated 11/27/02, issued by Fenestration Testing Laboratory, Inc., and signed and sealed by Joseph C. Chan, P.E.
(Submitted under NOA No. 03-0128.06)

G. OTHERS

1. Notice of Acceptance No. **20-0814.08**, issued to Lawson Industries, Inc. for their Series "4000/6000 (Flange & Fin Frame)" Aluminum Fixed Window - N.I., approved on 10/15/20 and expiring on 05/08/23.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 25-0612.05
Expiration Date: May 08, 2028
Approval Date: July 10, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED under previous approval

A. DRAWINGS

1. Drawing No. **L-4000 / 6000.01**, titled "Series 4000 / 6000 Aluminum Fixed Windows", sheets 1 through 12 of 12, dated 11/01/17, with revision **H** dated 10/11/23, prepared by manufacturer, and signed and sealed by Thomas J. Sotos, P.E.

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.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

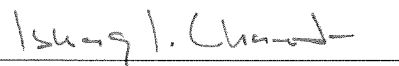
1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated October 13, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
2. Statement letter of no financial interest, dated October 13, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
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.

G. OTHERS

1. Notice of Acceptance No. **23-0314.03**, issued to Lawson Industries, Inc. for their Series "4000/6000 (Flange & Fin Frame)" Aluminum Fixed Window - N.I., approved on 04/06/23. and expiring on 05/08/28.


Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 25-0612.05
Expiration Date: May 08, 2028
Approval Date: July 10, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **CWS-1258 Rev A** (former **L-4000 / 6000.01**), titled "Series CWS 330 Aluminum NI Flange & Frame Picture Windows", sheets 1 through 12 of 12, dated 10/11/23 and last revised on JUN 09, 2025, prepared by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.

B. TESTS (Submitted under previous approval)

1. None

C. CALCULATIONS (Submitted under previous approval)

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

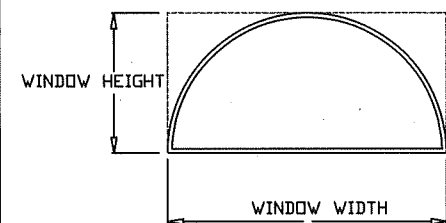
1. Statement letter of conformance, complying with FBC 8th Edition (2023), No financial interest to the lab and the DWG is the same as NOA# **23-1017.10** dated June 09, 2025, signed and sealed by Thomas J. Sotos, P.E.
2. Statement letter dated June 25, 2025, issued by Custom Window Systems, Inc. (CWS) 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, CWS request that (18) listed Private label Agreement NOA(s) between Lawson Industries Inc. and Custom Window System are to be rescinded, signed by Kevin Pine, Vice President CWS.
3. 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.
4. Statement letter dated June 10, 25 issued by Lawson Industries LLC, that they have legally sold all assets of existing NOA(s) listed in this letter, know how, equipment/machinery and given up all the rights and request to rescind these NOA(s), signed by Harold Bailey, President Lawson Industry, LLC.

G. OTHERS

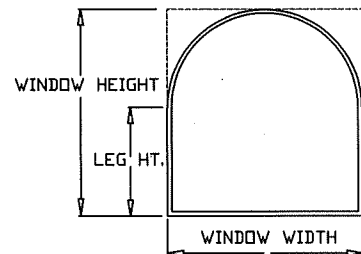
1. This NOA **revises NOA No. 23-1017.10** (Lawson Industries, Inc.), expiring 05/08/28.
2. Bill of Sales dated Nov. 28, 2023, between CWS-SF, LLC (Buyer) and Lawson Industries, Inc. (seller), signed by Nicolas Cross (president CWS) and Harold Bailly (president Lawson industries).
3. Meeting summary dated May 15, 2025, and June 24, 2025, issued by RER, Product Control Section.
4. NOA # **23-1017.10**, issued to Lawson Industries Inc. for series "4000/8000 (fin Frame) Aluminum Fixed Window-NI, expiring 05/08/2028. (**This NOA to be rescinded**).
5. NOA #**24-0116.18**, issued to Custom windows System Inc., for the series "CWS-330 Aluminum (flange & fin) Aluminum Fixed Window-NI, expiring 05/08/2028. (**This Private label NOA with Lawson Industries Inc., to be rescinded**).


Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 25-0612.05
Expiration Date: May 08, 2028
Approval Date: July 10, 2025

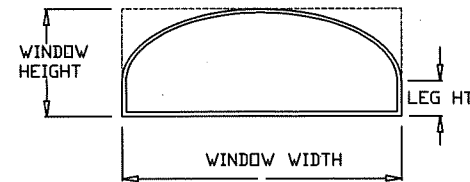
CWS 330 ALUM. PICTURE WINDOW- APPROVED WINDOW ELEVATIONS (NON-IMPACT)



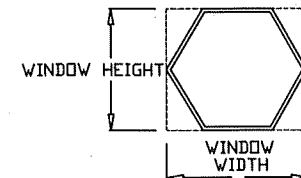
HALF-ROUND TYPICAL ELEVATION



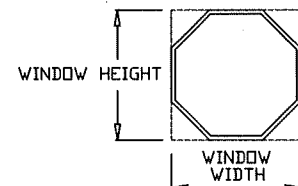
ARCHED PICTURE WINDOW



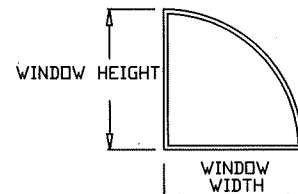
LEGGED EYE BROW ELEVATION



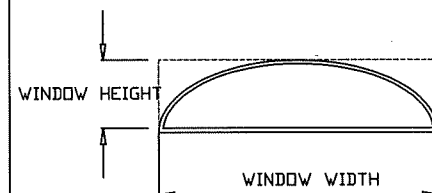
HEXAGON TYPICAL ELEVATION



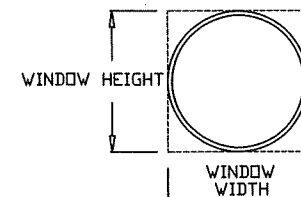
OCTAGON TYPICAL ELEVATION



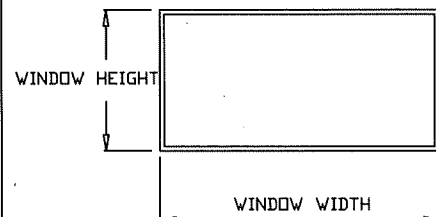
QUARTER-ROUND ELEVATION



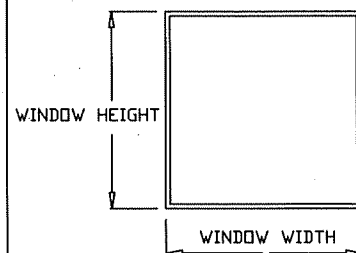
"ELLIPTICAL" TYPICAL ELEVATION



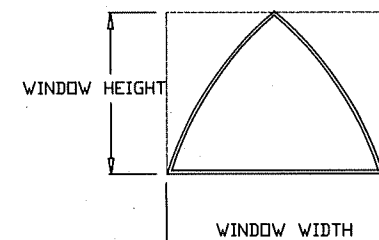
FULL ROUND TYPICAL ELEVATION



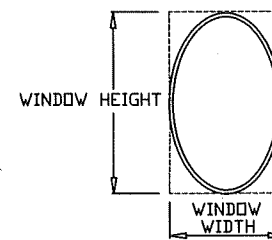
RECTANGULAR TYPICAL ELEVATION



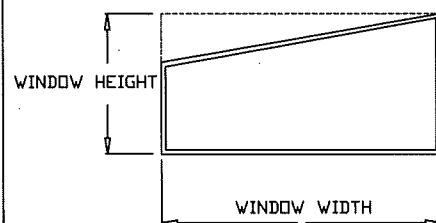
SQUARE PICTURE WINDOW ELEVATION



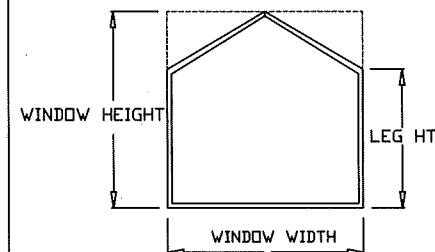
QUARTER-ROUND ELEVATION



OVAL TYPICAL ELEVATION



RECTANGULAR TYPICAL ELEVATION



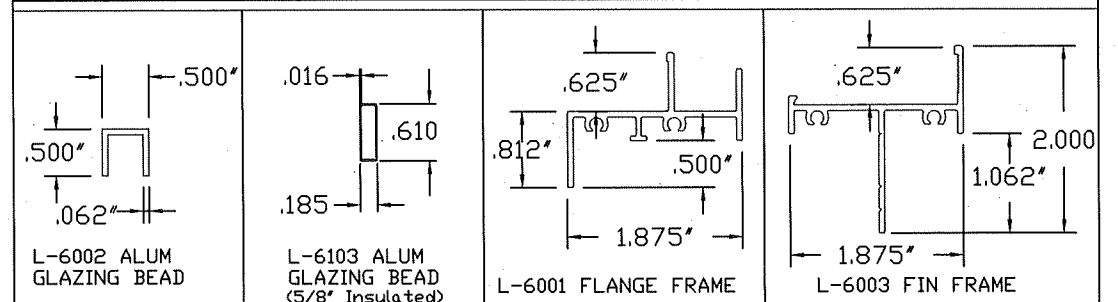
SQUARE PICTURE WINDOW ELEVATION

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN, CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN A SQUARE OR RECTANGLE, AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. PROVIDED PERIMETER FASTENERS ARE AS DESCRIBED HEREIN FOR SIZE AND SPACING.

General 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 THE FBC & TO BE REVIEWED BY BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ON TYPICAL ELEVATIONS ARE AS PER TEST UNITS. ON CENTER (O.C.) ANCHOR SPACINGS WILL VARY WITH UNIT DIMENSIONS, AND THE NUMBER OF ANCHORS REQUIRED, AS SPECIFIED ON THE LOAD TABLES.
- 4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWING'S ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 5.) WINDOWS ARE QUALIFIED FOR USE WITH SINGLE GLAZE GLASS TYPES TABULATED HEREIN (SEE SHEETS #4, 5, 8, 10, & 11).
- 6.) WINDOWS ARE QUALIFIED FOR USE WITH DOUBLE GLAZE GLASS TYPES TABULATED HEREIN (SEE SHEETS #6, 7, & 9).
- 7.) FALSE COLONIAL MUNTINS MAY BE USED & APPLIED TO THE GLASS WITH CLEAR SILICONE CLEAR SILICONE AND MAY BE PLACED AT INTERIOR AND/OR EXTERIOR SIDES OF GLASS.
- 8.) APPROVAL APPLIES TO SINGLE UNITS, OR MULTIPLE UNITS AND MAY BE MULLED VERTICALLY OR HORIZONTALLY.
- 9.) MULLING FIXED 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 APPROVAL OR MULLION APPROVAL WILL APPLY TO THE ENTIRE MULLED SYSTEM.
- 10.) SEE SHEETS # 2 & 3 FOR MULLION/METAL ATTACHMENT DETAILS & NOTES.

WINDOW FRAME EXTRUSION DETAILS



SEALANT:

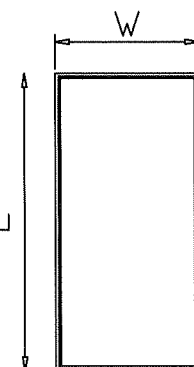
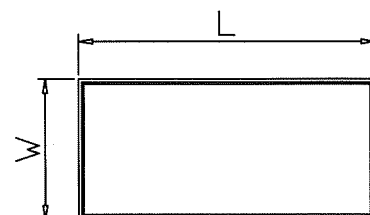
FRAME CORNERS, OR JOINTS SEALED WITH A COLORED SEALANT AND PERIMETER OF GLAZING BEAD WITH CLEAR SILICONE

WINDOWS TO BE PROTECTED WITH
DADE COUNTY APPROVED
IMPACT RESISTANT SHUTTERS

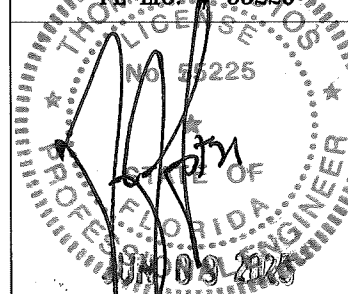
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 25-0612-05
Expiration Date 05/28/2028
By *[Signature]*
Miami Dade Product Control

NOTE:

WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225



DATE

SHEET DESCRIPTION:

APPROVED SHAPES, DETAILS,
CONFIGURATIONS AND GENERAL NOTES

NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	1 OF 12

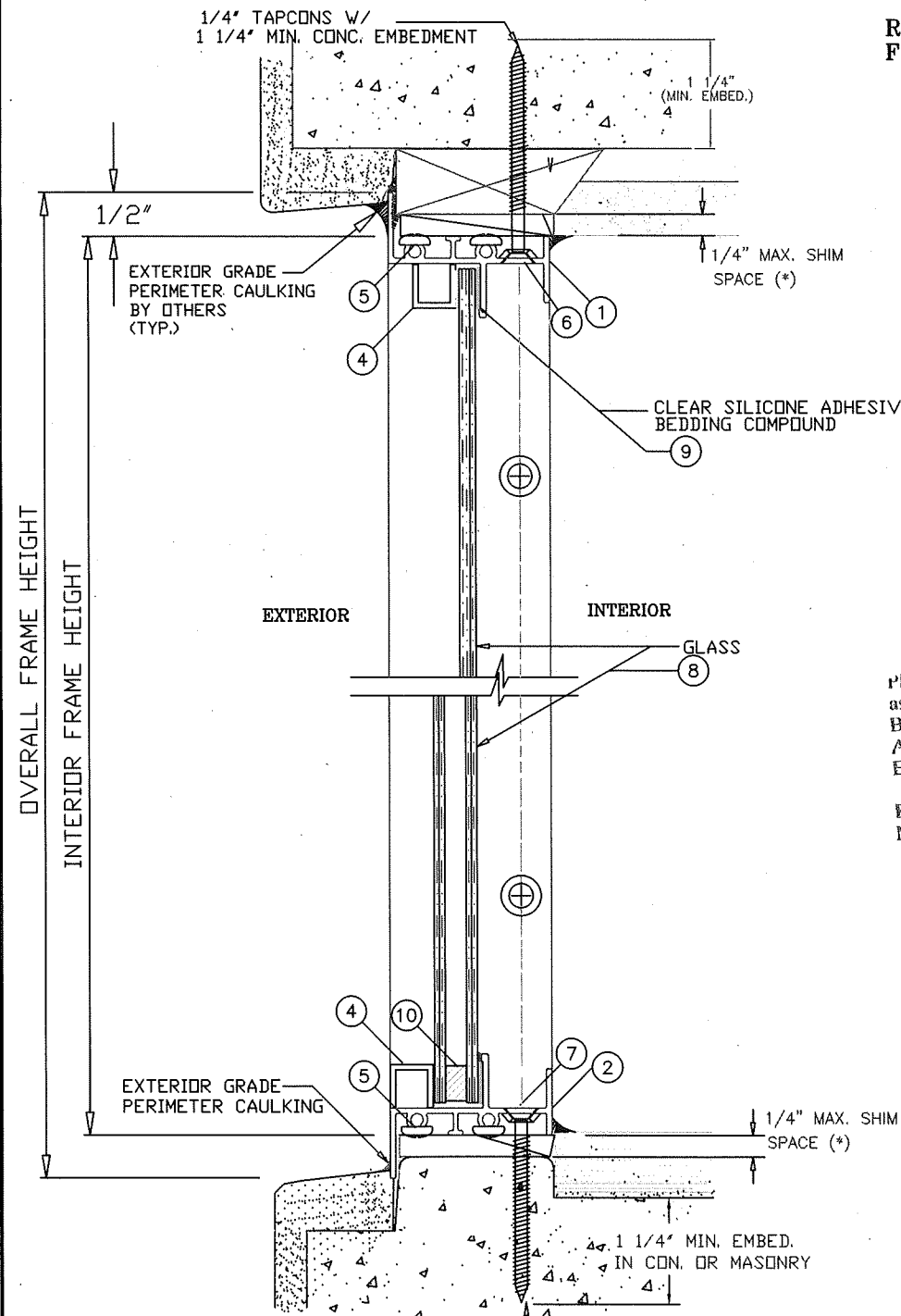
CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW



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

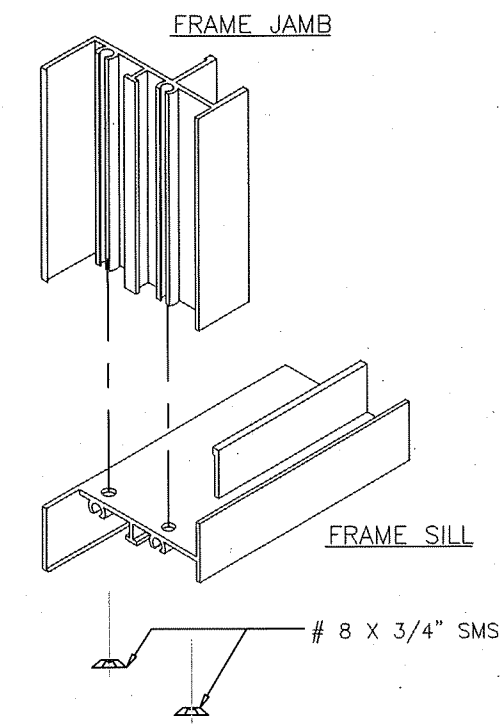
FLANGE FRAME BILL OF MATERIALS				
ITEM #	PART #	REQD.	DESCRIPTION	REMARKS
1	L-6001	1	FRAME HEAD	6063-T5 ALUMINUM
2	L-6001	1	FRAME SILL	6063-T5 ALUMINUM
3	L-6001	2	FRAME JAMB	6063-T5 ALUMINUM
4a	L-6002	AS REQ'D.	ALUM. GLAZING BEAD	6063-T5 ALUMINUM
4b	L-6103	AS REQ'D.	5/8" GLAZING BEAD	0.016" THICK ALUMINUM
5	FS-006	AS REQ'D.	FRAME ASSEMBLY SCREWS	#8 X 1" P.H. SQR. RECESS
6	*	AS REQ'D.	INSTALLATION SCREWS	#12 SMS OR 1/4" TAPCON
7	*	AS REQ'D.	JOINT SEALANT	"Purvis Co." Super Seal
8	*	1	GLASS	SEE CHARTS
9	*	AS REQ'D.	NEUTRAL CURE SILICONE	SM-5731 OR DC-899
10a	Trueseal	AS REQ'D.	Insulated Swiggle Spacer	Black w/ 1/4" air space
10b	Quanex	AS REQ'D.	Insulated SuperSpacer	Black w/ 1/4" air space
10c	Quanex	AS REQ'D.	Insulated Duraseal Spacer	Black w/ 1/4" air space

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

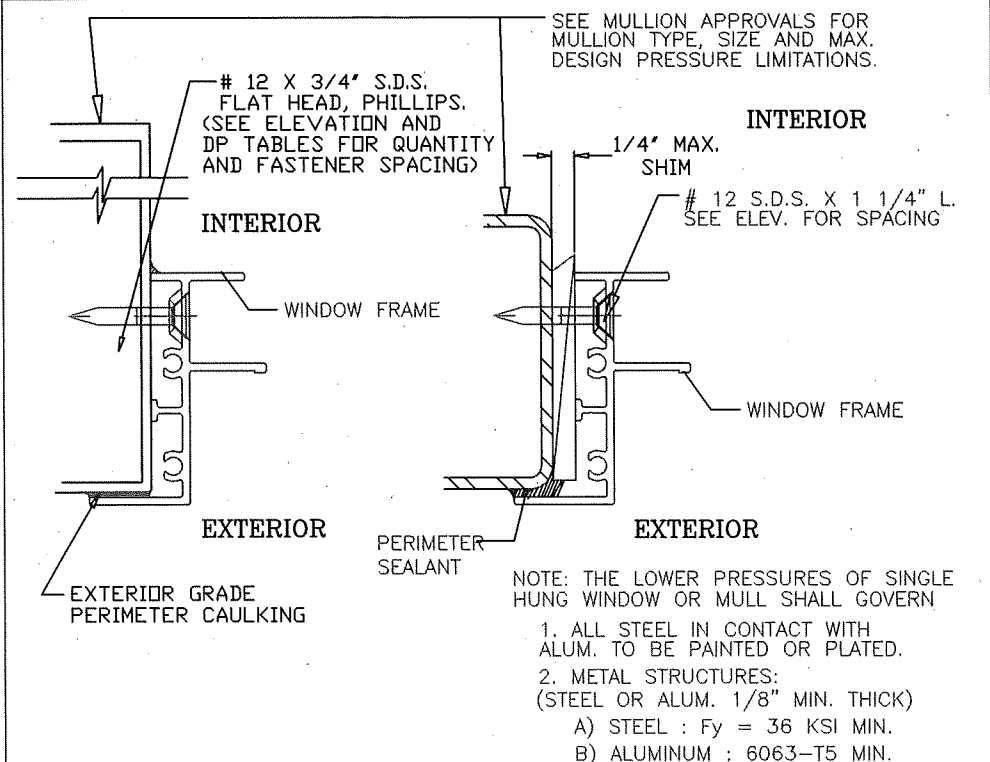


REFER TO SHEET # 1 OF 12 FOR GENERAL NOTES

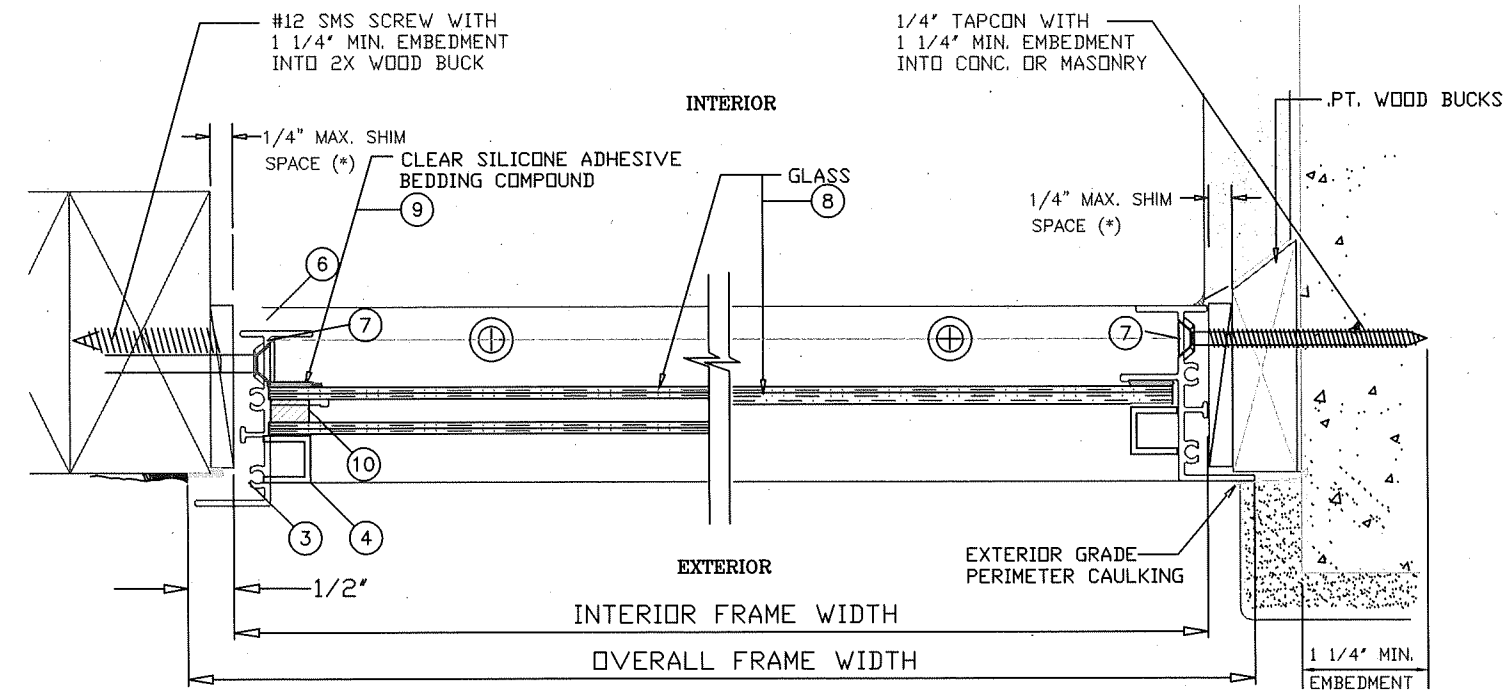
PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 25-0612.05
 Expiration Date 05/08/2028
 By Isky I. Chavira
 Miami Dade Product Control



FLANGE FRAME CORNER DETAIL



MULLION & METAL STRUCTURE ATTACHMENT DETAIL



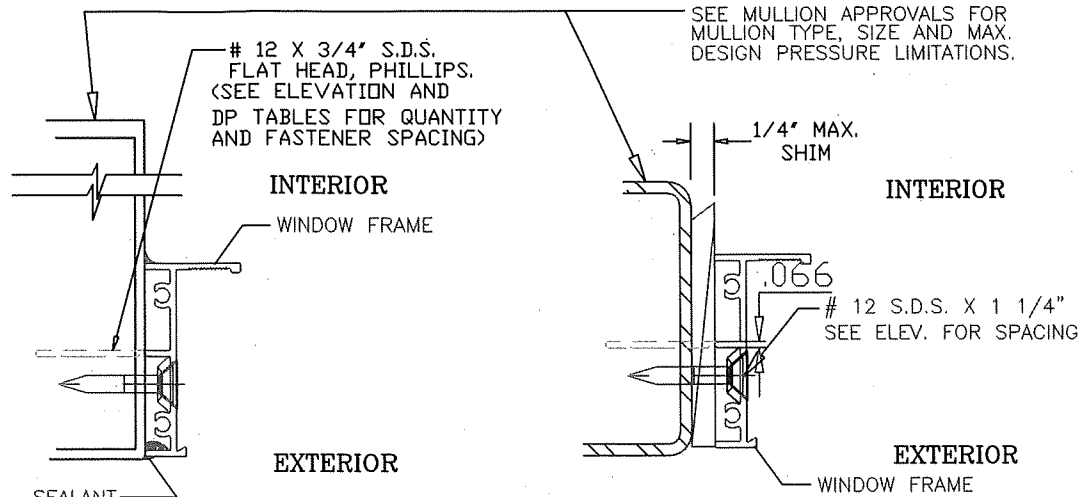
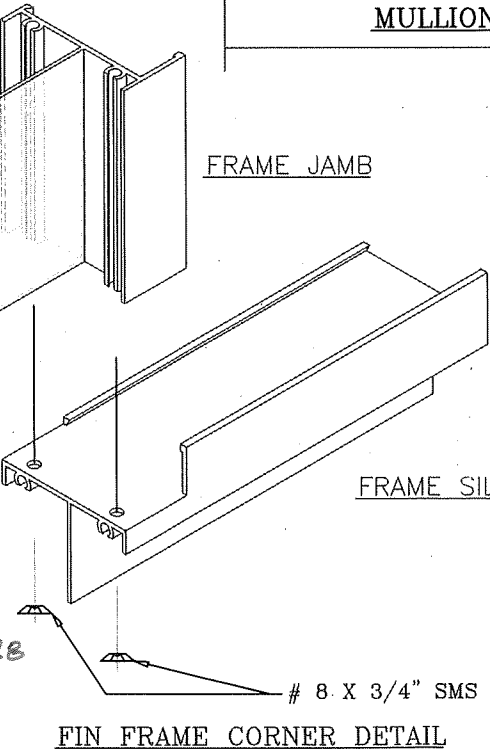
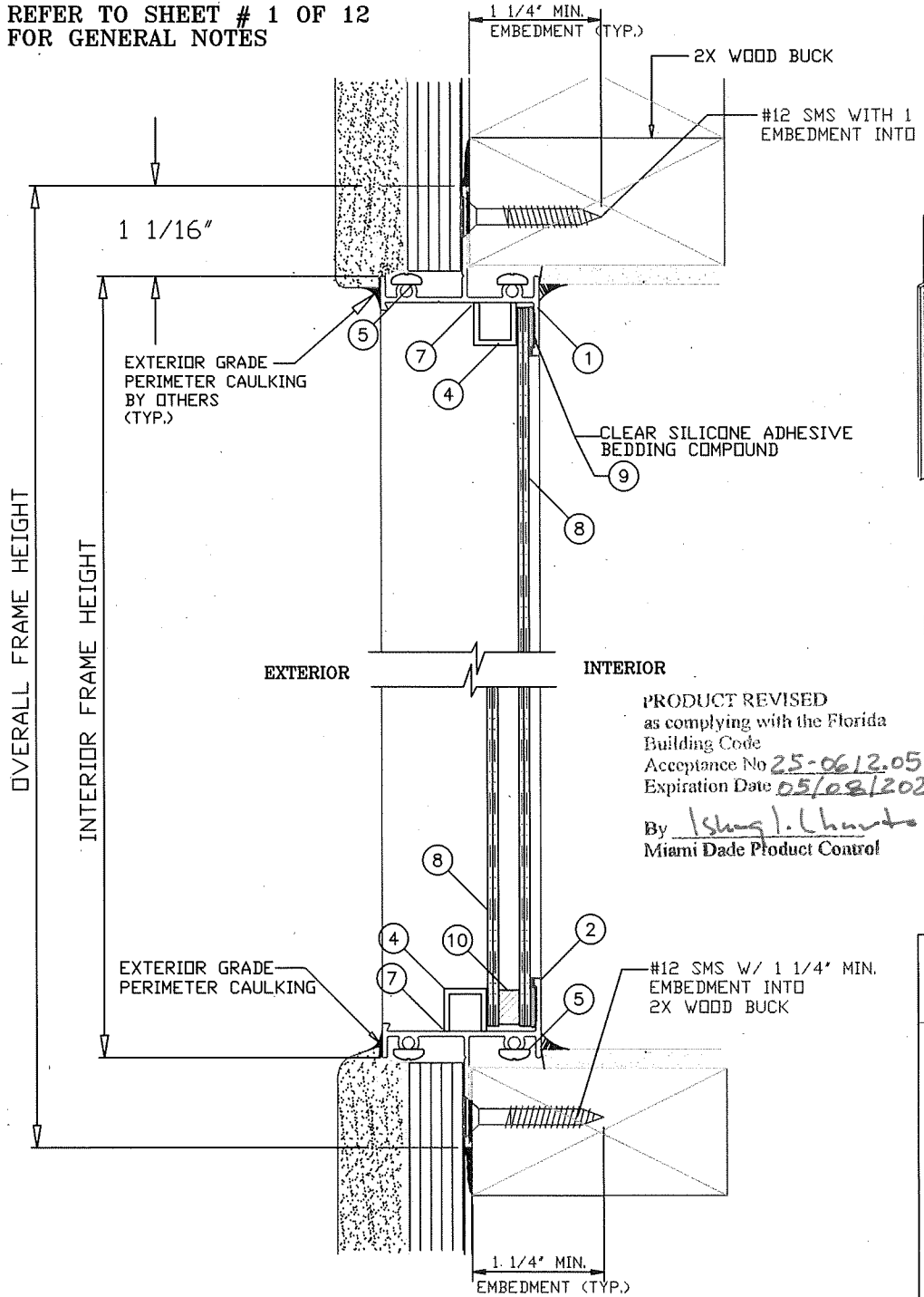
THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC # 55225		SHEET DESCRIPTION: FLANGE FRAME INSTALLATION DETAILS, CORNER ASSEMBLY DETAILS, BILL OF MATERIALS & NOTES			
NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	2 OF 12

**CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW**

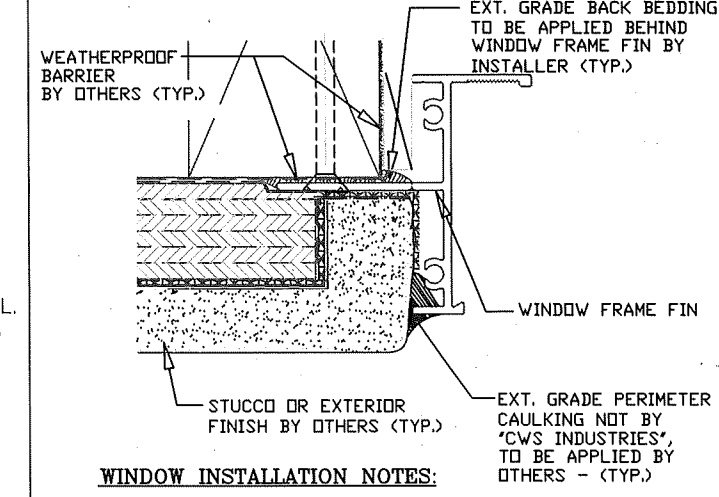
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

FIN FRAME BILL OF MATERIALS				
ITEM #	PART #	REQD.	DESCRIPTION	REMARKS
1	L-6003	1	FRAME HEAD	6063-T5 ALUMINUM
2	L-6003	1	FRAME SILL	6063-T5 ALUMINUM
3	L-6003	2	FRAME JAMB	6063-T5 ALUMINUM
4a	L-6002	AS REQ'D.	ALUM. GLAZING BEAD	6063-T5 ALUMINUM
4b	L-6103	AS REQ'D.	5/8" GLAZING BEAD	0.016" THICK ALUMINUM
5	FS-006	AS REQ'D.	FRAME ASSEMBLY SCREWS	#8 X 1" P.H. SQR. RECESS
6	*	AS REQ'D.	INSTALLATION SCREWS	#12 SMS X 1 1/2" F.H./PHIL.
7	*	AS REQ'D.	JOINT SEALANT	'Purvis Co.' Super Seal
8	*	1	GLASS	SEE CHART
9	*	AS REQ'D.	NEUTRAL CURE SILICONE	SM -5731 IR DC-899
10a	Trueseal	AS REQ'D.	Insulated Swiggle Spacer	Black w/ 1/4" air space
10b	Quanex	AS REQ'D.	Insulated SuperSpacer	Black w/ 1/4" air space
10c	Quanex	AS REQ'D.	Insulated Duraseal Spacer	Black w/ 1/4" air space

REFER TO SHEET # 1 OF 12
FOR GENERAL NOTES



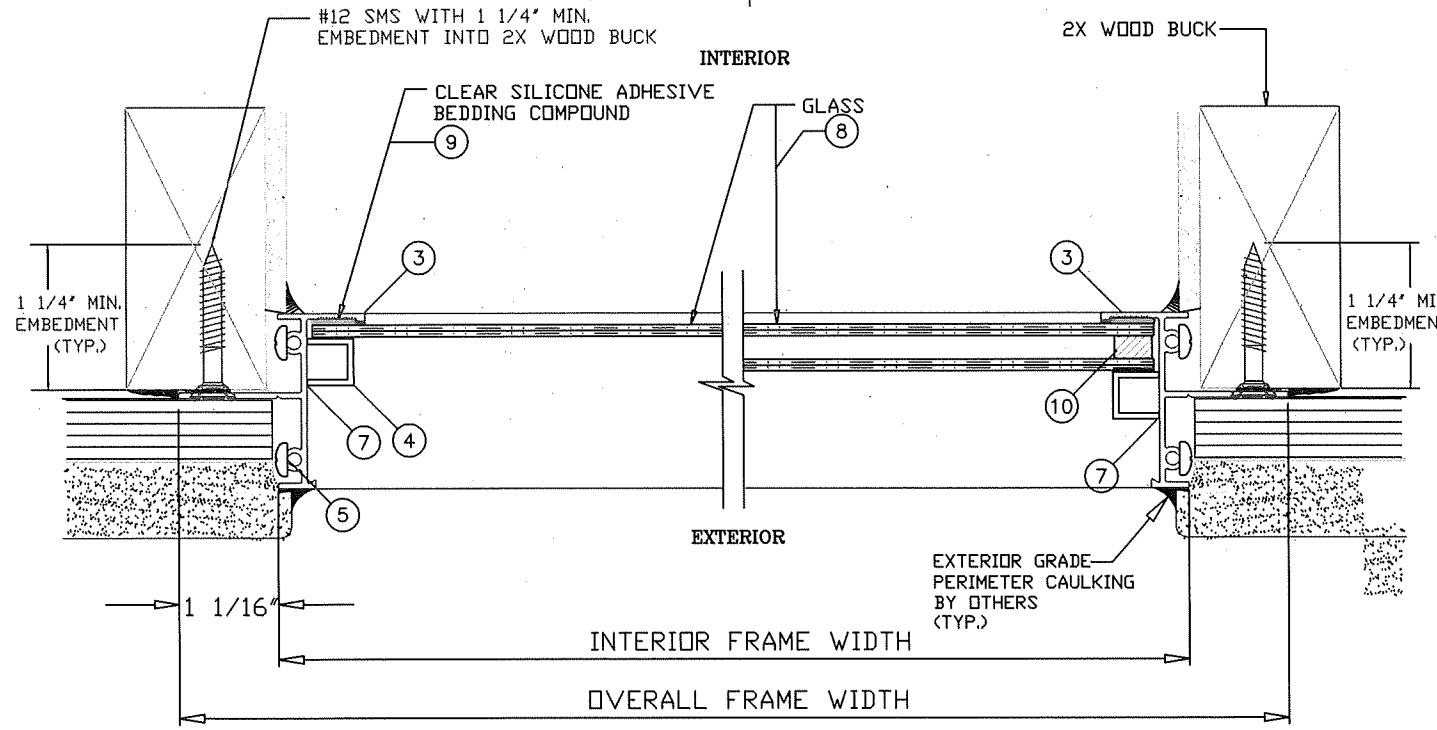
MULLION & METAL STRUCTURE ATTACHMENT DETAIL



WINDOW INSTALLATION NOTES:

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

FIN WINDOW INSTALLATION DETAIL

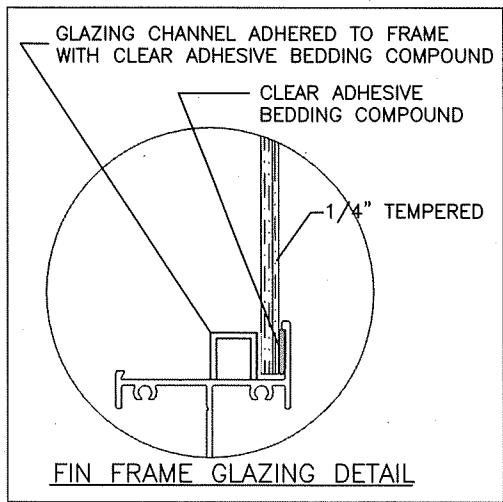


THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225
DATE JUN 09 2025

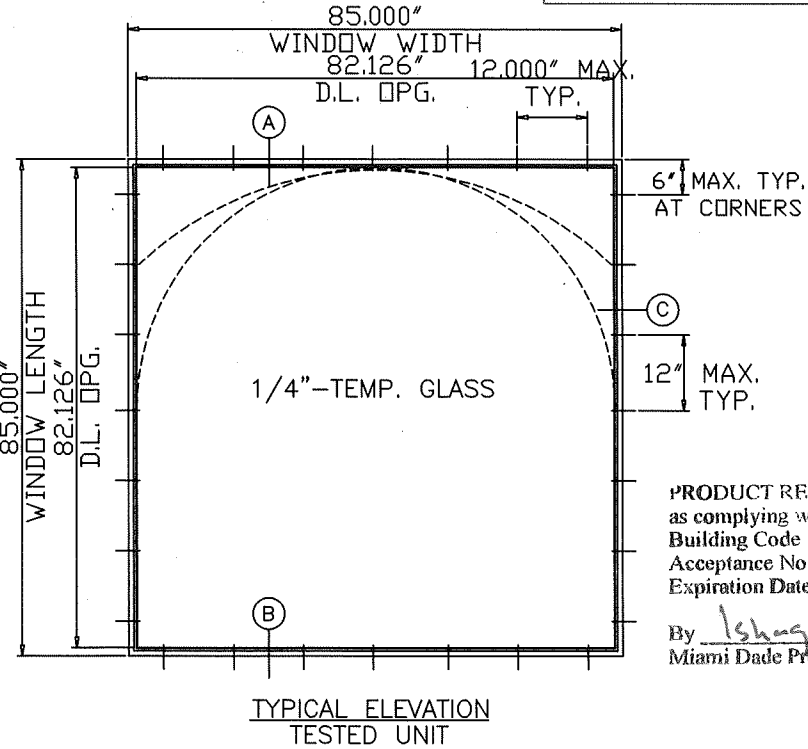
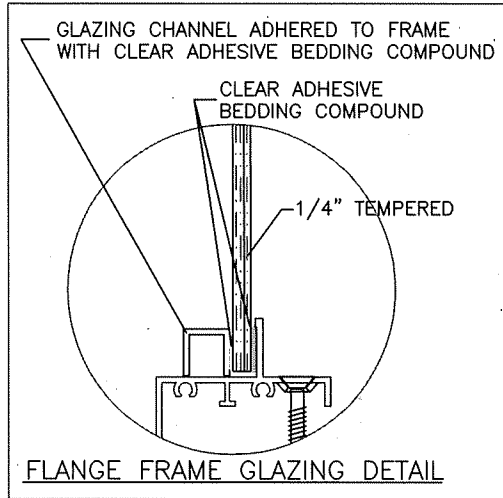
SHEET DESCRIPTION: FIN FRAME INSTALLATION DETAILS, CORNER ASSEMBLY DETAILS, BILL OF MATERIALS & NOTES					
NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	3 OF 12

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW

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



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



FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

- WINDOW FRAME SIZE NOTE:**
1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
 2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" TEMPERED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0
36	18	14	7	100.0	100.0
48	18	19	6	100.0	100.0
60	18	23	6	100.0	100.0
72	18	28	6	100.0	100.0
84	18	32	6	100.0	100.0
96	18	37	6	100.0	100.0
108	18	41	6	100.0	100.0
120	18	46	6	100.0	100.0
132	18	50	6	100.0	100.0
144	18	55	5	100.0	100.0
148	18	57	5	100.0	100.0
156	18	60	5	100.0	100.0
24	24	13	7	100.0	100.0
36	24	19	6	100.0	100.0
48	24	25	5	100.0	100.0
60	24	31	5	100.0	100.0
72	24	37	5	100.0	100.0
84	24	43	5	100.0	100.0
96	24	49	4	100.0	100.0
108	24	55	4	100.0	100.0
120	24	61	4	100.0	100.0
132	24	67	4	100.0	100.0
144	24	73	4	100.0	100.0
148	24	75	4	100.0	100.0
156	24	79	4	100.0	100.0
24	30	16	6	100.0	100.0
36	30	23	5	100.0	100.0
48	30	31	5	100.0	100.0
60	30	38	4	100.0	100.0
72	30	46	4	100.0	100.0
84	30	54	4	100.0	100.0
96	30	61	4	100.0	100.0
108	30	69	4	100.0	100.0
120	30	76	3	100.0	100.0
132	30	84	3	100.0	100.0
144	30	91	3	100.0	100.0
148	30	94	3	100.0	100.0
156	30	99	3	100.0	100.0

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" TEMPERED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	36	19	6	100.0	100.0
36	36	28	5	100.0	100.0
48	36	37	4	100.0	100.0
60	36	46	4	100.0	100.0
72	36	55	3	100.0	100.0
84	36	64	3	100.0	100.0
96	36	73	3	100.0	100.0
108	36	82	3	100.0	100.0
120	36	91	3	100.0	100.0
132	36	100	3	100.0	100.0
144	36	110	3	100.0	100.0
148	36	113	3	100.0	100.0
156	36	119	3	100.0	100.0
24	48	25	5	100.0	100.0
36	48	37	4	100.0	100.0
48	48	49	3	100.0	100.0
60	48	61	3	100.0	100.0
72	48	73	3	100.0	100.0
84	48	85	3	100.0	100.0
96	48	97	2	100.0	100.0
108	48	110	2	100.0	100.0
120	48	113	2	93.1	93.1
132	48	111	3	83.2	83.2
144	48	114	3	78.3	78.3
148	48	115	3	76.7	76.7
156	48				
24	60	31	5	100.0	100.0
36	60	46	4	100.0	100.0
48	60	61	3	100.0	100.0
60	60	76	3	100.0	100.0
72	60	91	2	100.0	100.0
84	60	107	2	100.0	100.0
96	60	122	2	100.0	100.0
108	60	137	2	100.0	100.0
120	60	139	2	91.6	91.6
132	60				
144	60				
148	60				
156	60				

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" TEMPERED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	72	37	5	100.0	100.0
36	72	55	3	100.0	100.0
48	72	73	3	100.0	100.0
60	72	91	2	100.0	100.0
72	72	110	2	100.0	100.0
84	72	128	2	100.0	100.0
96	72	143	2	98.2	98.2
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	43	5	100.0	100.0
36	84	64	3	100.0	100.0
48	84	85	3	100.0	100.0
60	84	107	2	100.0	100.0
72	84	128	2	100.0	100.0
84	84	149	2	100.0	100.0
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	100.0	100.0
37	26	21	6	100.0	100.0
53.125	26	30	5	100.0	100.0
19.125	38.375	16	7	100.0	100.0
26.5	38.375	22	5	100.0	100.0
37	38.375	30	5	100.0	100.0
53.125	38.375	43	4	100.0	100.0
19.125	50.625	21	6	100.0	100.0
26.5	50.625	29	5	100.0	100.0
37	50.625	40	4	100.0	100.0
53.125	50.625	57	3	100.0	100.0
19.125	58	24	6	100.0	100.0
26.5	58	33	5	100.0	100.0
37	58	46	4	100.0	100.0
53.125	58	65	3	100.0	100.0
19.125	63	26	6	100.0	100.0
26.5	63	36	4	100.0	100.0
37	63	50	4	100.0	100.0
53.125	63	71	3	100.0	100.0
19.125	74.25	30	6	100.0	100.0
26.5	74.25	42	4	100.0	100.0
37	74.25	58	3	100.0	100.0
53.125	74.25	84	3	100.0	100.0

UNIT PERFORMANCE DATA

REPORT #FTL-3619

TEST SIZE = 85" wide X 85" hi (0) WATER INFILTRATION TEST = 18.0 PSF

DESIGN LOADS = +104.0, -104.0 PSF (PA-202) DAYLIGHT OPENING = 82 1/8" wide X 82 1/8" hi

STRUCTURAL TEST LOAD = +156.0, -156.0 PSF TESTED GLASS = 1/4" TEMPERED GLASS

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FL LIC # 55225

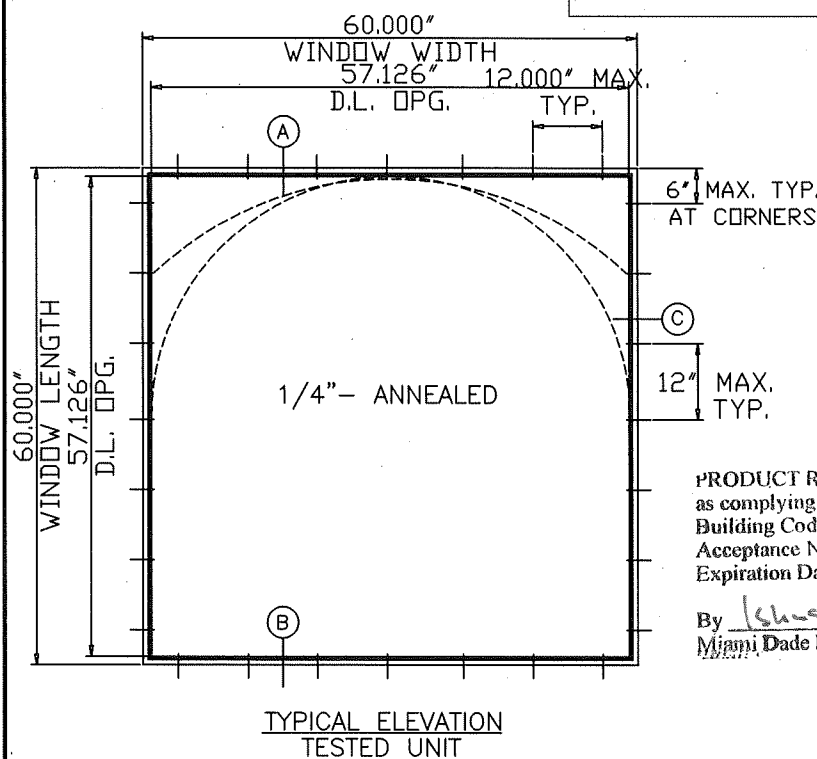
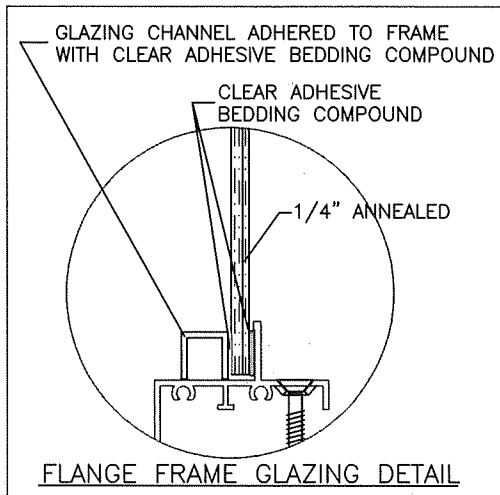
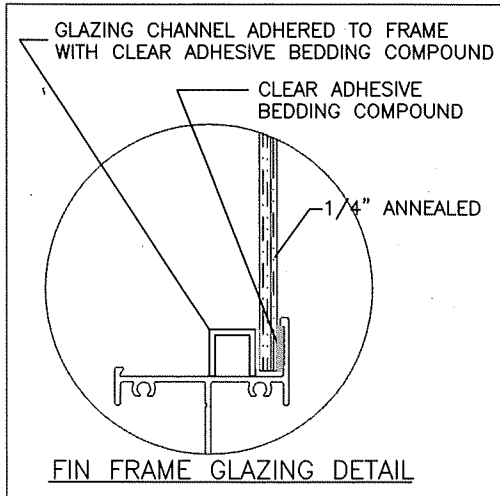
DATE JUN 09 2025

SHEET DESCRIPTION:
WINDOW NOTES, COMPARATIVE ANALYSIS
CHARTS & 1/4" TEMP. GLAZING DETAILS

NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	4 OF 12

**CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW**

1900 SW 44TH AVE.
OCALA, FLORIDA 34474
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WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" ANNEALED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0
36	18	14	7	100.0	100.0
48	18	18	7	97.2	97.2
60	18	22	7	92.9	92.9
72	18	25	7	90.3	90.3
84	18	29	7	88.5	88.5
96	18	32	7	87.2	87.2
108	18	36	7	86.2	86.2
120	18	39	7	85.4	85.4
132	18	43	6	84.8	84.8
144	18	46	7	84.3	84.3
148	18	48	6	84.1	84.1
156	18	50	6	83.8	83.8
24	24	13	7	100.0	100.0
36	24	17	7	88.9	88.9
48	24	20	7	79.0	79.0
60	24	23	7	74.1	74.1
72	24	26	7	71.1	71.1
84	24	30	7	69.1	69.1
96	24	33	7	67.7	67.7
108	24	37	7	66.7	66.7
120	24	40	7	65.8	65.8
132	24	44	7	65.2	65.2
144	24	48	7	64.6	64.6
148	24	49	7	64.5	64.5
156	24				
24	30	15	7	98.8	98.8
36	30	19	6	81.3	81.3
48	30	21	7	68.9	68.9
60	30	24	7	63.2	63.2
72	30	28	7	59.9	59.9
84	30	31	7	57.7	57.7
96	30	34	7	55.4	55.4
108	30	36	7	52.5	52.5
120	30	39	7	51.2	51.2
132	30				
144	30				
148	30				
156	30				

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" ANNEALED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	36	17	7	88.9	88.9
36	36	22	6	79.0	79.0
48	36	23	7	63.2	63.2
60	36	26	7	56.4	56.4
72	36	28	7	50.1	50.1
84	36	28	8	43.2	43.2
96	36	29	9	39.5	39.5
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	20	7	79.0	79.0
36	48	23	7	63.2	63.2
48	48	29	6	59.3	59.3
60	48	30	7	49.4	49.4
72	48	33	7	44.4	44.4
84	48				
96	48				
108	48				
120	48				
132	48				
144	48				
148	48				
156	48				
24	60	23	7	74.1	74.1
36	60	26	7	56.4	56.4
48	60	30	7	49.4	49.4
60	60	36	6	47.4	47.4
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144	60				
148	60				
156	60				

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" ANNEALED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	72	26	7	71.1	71.1
36	72	28	7	50.1	50.1
48	72	33	7	44.4	44.4
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	30	7	69.1	69.1
36	84	28	8	43.2	43.2
48	84				
60	84				
72	84				
84	84				
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	100.0	100.0
37	26	18	7	84.3	84.3
53.125	26	22	7	72.4	72.4
19.125	38.375	16	7	99.0	99.0
26.5	38.375	18	7	82.0	82.0
37	38.375	23	6	74.2	74.2
53.125	38.375	25	7	58.0	58.0
19.125	50.625	19	7	91.7	91.7
26.5	50.625	21	7	72.7	72.7
37	50.625	24	7	60.6	60.6
53.125	50.625	31	6	53.7	53.7
19.125	58	21	7	89.0	89.0
26.5	58	23	7	69.5	69.5
37	58	26	7	56.4	56.4
53.125	58	33	6	49.4	49.4
19.125	63	23	7	87.7	87.7
26.5	63	24	7	68.0	68.0
37	63	27	7	54.4	54.4
53.125	63	33	7	46.3	46.3
19.125	74.25	26	7	85.3	85.3
26.5	74.25	28	7	65.3	65.3
37	74.25	28	7	48.0	48.0
53.125	74.25				

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

WINDOW FRAME SIZE NOTE:

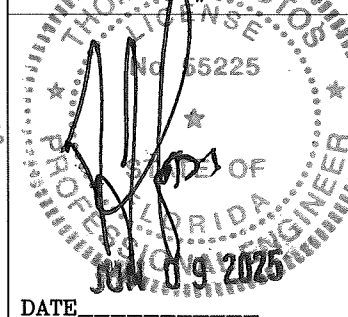
1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
2. ADD 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

UNIT PERFORMANCE DATA

REPORT #FTL-3620

TEST SIZE = 60" wide X 60" hi (0) WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619
DESIGN LOADS = +47.40, -47.40 PSF (PA-202) DAYLIGHT OPENING = 57 1/8" wide X 57 1/8" hi
STRUCTURAL TEST LOAD = +71.10, -71.10 PSF TESTED GLASS = 1/4" ANNEALED GLASS

THOMAS J. SOTOS
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FL LIC # 55225



SHEET DESCRIPTION:

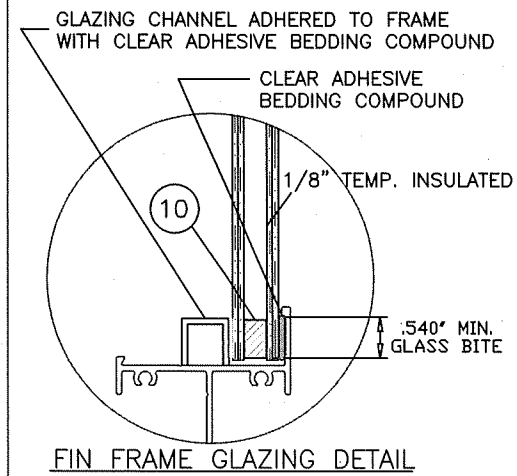
WINDOW NOTES, COMPARATIVE ANALYSIS CHARTS
W/ 1/4" ANNEALED GLASS & DETAILS

NO.	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	5 OF 12

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW



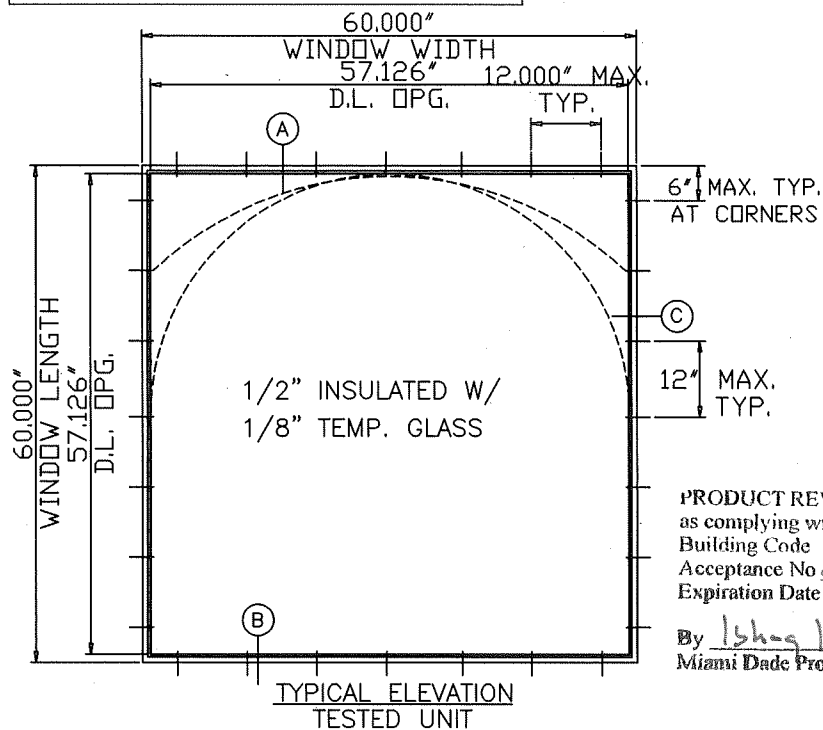
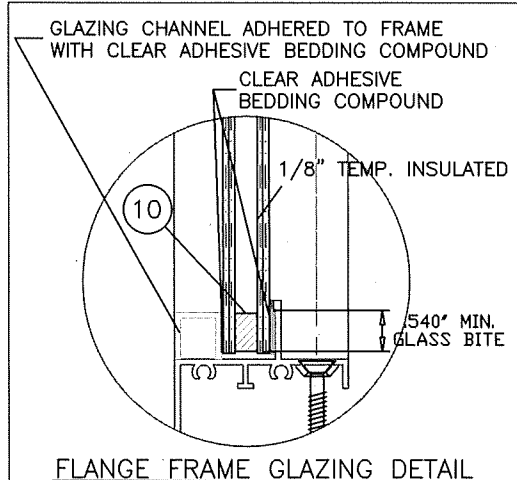
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
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10 Insulated Spacer Types & Options

- 10a) "TrueSeal" Swiggle Seal
- 10b) "Quanex" SuperSpacer w/ Isomelt M
- 10c) "Quanex" Duraseal

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



WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" TEMP. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0
36	18	14	7	100.0	100.0
48	18	19	6	100.0	100.0
60	18	23	6	100.0	100.0
72	18	28	6	100.0	100.0
84	18	32	6	100.0	100.0
96	18	37	6	100.0	100.0
108	18	41	6	100.0	100.0
120	18	46	6	100.0	100.0
132	18				
144	18				
148	18				
156	18				
24	24	13	7	100.0	100.0
36	24	19	6	100.0	100.0
48	24	25	5	100.0	100.0
60	24	31	5	100.0	100.0
72	24	37	5	100.0	100.0
84	24	43	5	100.0	100.0
96	24	49	4	100.0	100.0
108	24	55	4	100.0	100.0
120	24	61	4	100.0	100.0
132	24				
144	24				
148	24				
156	24				
24	30	16	6	100.0	100.0
36	30	23	5	100.0	100.0
48	30	31	5	100.0	100.0
60	30	38	4	100.0	100.0
72	30	46	4	100.0	100.0
84	30	54	4	100.0	100.0
96	30	61	4	100.0	100.0
108	30	69	4	100.0	100.0
120	30	76	3	100.0	100.0
132	30				
144	30				
148	30				
156	30				

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" TEMP. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	36	19	6	100.0	100.0
36	36	28	5	100.0	100.0
48	36	37	4	100.0	100.0
60	36	46	4	100.0	100.0
72	36	55	3	100.0	100.0
84	36	64	3	100.0	100.0
96	36	73	3	100.0	100.0
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	25	5	100.0	100.0
36	48	37	4	100.0	100.0
48	48	49	3	100.0	100.0
60	48	61	3	100.0	100.0
72	48	73	3	100.0	100.0
84	48				
96	48				
108	48				
120	48				
132	48				
144	48				
148	48				
156	48				
24	60	31	5	100.0	100.0
36	60	46	4	100.0	100.0
48	60	61	3	100.0	100.0
60	60	76	3	100.0	100.0
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144	60				
148	60				
156	60				

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" TEMP. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	72	37	5	100.0	100.0
36	72	55	3	100.0	100.0
48	72	73	3	100.0	100.0
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	43	5	100.0	100.0
36	84	64	3	100.0	100.0
48	84				
60	84				
72	84				
84	84				
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	100.0	100.0
37	26	21	6	100.0	100.0
53.125	26	30	5	100.0	100.0
19.125	38.375	16	7	100.0	100.0
26.5	38.375	22	5	100.0	100.0
37	38.375	30	5	100.0	100.0
53.125	38.375	43	4	100.0	100.0
19.125	50.625	21	6	100.0	100.0
26.5	50.625	29	5	100.0	100.0
37	50.625	40	4	100.0	100.0
53.125	50.625	57	3	100.0	100.0
19.125	58	24	6	100.0	100.0
26.5	58	33	5	100.0	100.0
37	58	46	4	100.0	100.0
53.125	58	65	3	100.0	100.0
19.125	63	26	6	100.0	100.0
26.5	63	36	4	100.0	100.0
37	63	50	4	100.0	100.0
53.125	63	71	3	100.0	100.0
19.125	74.25	30	6	100.0	100.0
26.5	74.25	42	4	100.0	100.0
37	74.25	58	3	100.0	100.0
53.125	74.25				

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

WINDOW FRAME SIZE NOTE:
1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

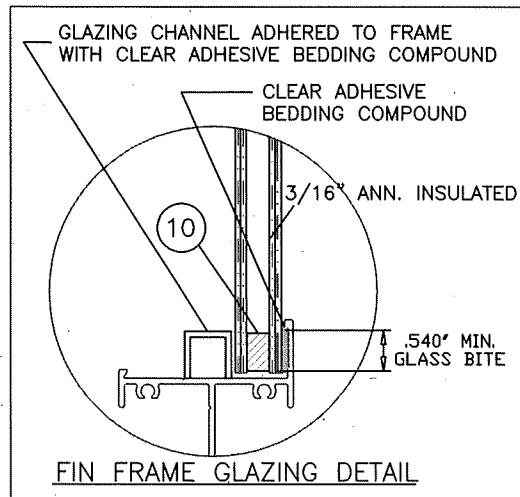
UNIT PERFORMANCE DATA REPORT #FTL-3621	
TEST SIZE= 60" wide X 60" hi (0)	WATER INFILTRATION TEST= 18.0 PSF @ #FTL-3619
DESIGN LOADS= +144.00, -144.00 PSF (PA-202)	DAYLIGHT OPENING= 57 1/8" wide X 57 1/8" hi
STRUCTURAL TEST LOAD= +216.00, -216.00 PSF	TESTED GLASS= 1/8" TEMPERED GLASS
	DOUBLE GLAZED INSULATED

THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC # 55225		SHEET DESCRIPTION: WINDOW NOTES, COMPARATIVE ANALYSIS CHARTS W/ 1/2" INSULATED-TEMPERED GLASS & DETAILS						
 DATE _____	NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:		
	A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023		
					REV. BY:	DATE:		
					N.E.	05/15/2025		
					DWG #:	CWS-1258	REV #:	A
					SCALE:	AS NOTED	SHEET 6 OF 12	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 25-0612.05
Expiration Date 05/08/2028
By Ishag I. Lhanda
Miami Dade Product Control

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW

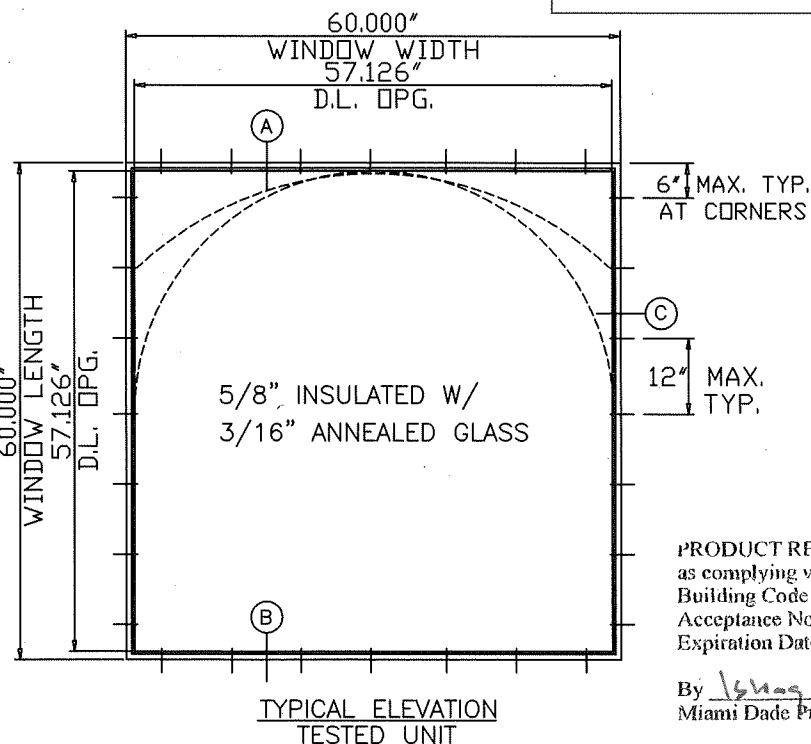
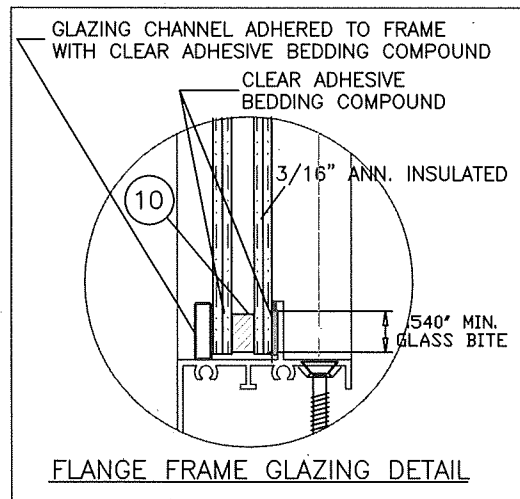
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC



10

Insulated Spacer Types & Options

- 10a) "TrueSeal" Swiggle Seal
- 10b) "Quanex" SuperSpacer w/ Isomelt M
- 10c) "Quanex" Duraseal



WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANN. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0
36	18	14	7	100.0	100.0
48	18	19	6	100.0	100.0
60	18	23	6	100.0	100.0
72	18	28	6	100.0	100.0
84	18	32	6	100.0	100.0
96	18	37	6	100.0	100.0
108	18	41	6	100.0	100.0
120	18	46	6	100.0	100.0
132	18	50	6	100.0	100.0
144	18	55	5	100.0	100.0
148	18	57	5	100.0	100.0
156	18	60	5	100.0	100.0
24	24	13	7	100.0	100.0
36	24	19	6	100.0	100.0
48	24	25	5	100.0	100.0
60	24	31	5	100.0	100.0
72	24	37	5	100.0	100.0
84	24	43	5	99.0	99.0
96	24	48	5	97.0	97.0
108	24	53	4	95.5	95.5
120	24	58	4	94.3	94.3
132	24	63	4	93.4	93.4
144	24	68	4	92.6	92.6
148	24	70	4	92.4	92.4
156	24				
24	30	16	6	100.0	100.0
36	30	23	5	100.0	100.0
48	30	30	5	98.8	98.8
60	30	35	5	90.5	90.5
72	30	37	5	80.9	80.9
84	30	39	5	72.8	72.8
96	30	42	6	68.7	68.7
108	30	45	6	65.2	65.2
120	30	48	6	63.1	63.1
132	30				
144	30				
148	30				
156	30				

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANN. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	36	19	6	100.0	100.0
36	36	28	5	100.0	100.0
48	36	33	5	90.5	90.5
60	36	37	5	80.8	80.8
72	36	39	5	70.8	70.8
84	36	37	6	58.0	58.0
96	36	38	6	50.9	50.9
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	25	5	100.0	100.0
36	48	33	5	90.5	90.5
48	48	42	4	84.9	84.9
60	48	43	5	70.7	70.7
72	48	47	5	63.7	63.7
84	48				
96	48				
108	48				
120	48				
132	48				
144	48				
148	48				
156	48				
24	60	31	5	100.0	100.0
36	60	37	5	80.8	80.8
48	60	43	5	70.7	70.7
60	60	52	4	67.9	67.9
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144	60				
148	60				
156	60				

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANN. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	72	37	5	100.0	100.0
36	72	39	5	70.8	70.8
48	72	47	5	63.7	63.7
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	43	5	99.0	99.0
36	84	37	6	58.0	58.0
48	84				
60	84				
72	84				
84	84				
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	100.0	100.0
37	26	21	6	100.0	100.0
53.125	26	30	5	100.0	100.0
19.125	38.375	16	7	100.0	100.0
26.5	38.375	22	5	100.0	100.0
37	38.375	30	5	100.0	100.0
53.125	38.375	36	5	83.1	83.1
19.125	50.625	21	6	100.0	100.0
26.5	50.625	29	5	100.0	100.0
37	50.625	35	5	86.8	86.8
53.125	50.625	44	4	76.9	76.9
19.125	58	24	6	100.0	100.0
26.5	58	33	5	99.6	99.6
37	58	37	5	80.8	80.8
53.125	58	46	4	70.7	70.7
19.125	63	26	6	100.0	100.0
26.5	63	35	5	97.3	97.3
37	63	39	5	77.9	77.9
53.125	63	47	4	66.3	66.3
19.125	74.25	30	6	100.0	100.0
26.5	74.25	39	5	93.6	93.6
37	74.25	40	5	68.3	68.3
53.125	74.25				

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

WINDOW FRAME SIZE NOTE:

1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

UNIT PERFORMANCE DATA REPORT #FTL-3622

TEST SIZE = 60" wide X 60" hi (0) WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619
DESIGN LOADS = +67.90, -67.90 PSF (PA-202) DAYLIGHT OPENING = 57 1/8" wide X 57 1/8" hi
STRUCTURAL TEST LOAD = +101.9, -101.9 PSF TESTED GLASS = 3/16" ANNEALED GLASS
DOUBLE GLAZED INSULATED

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

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FL LIC. # 55225

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SHEET DESCRIPTION:

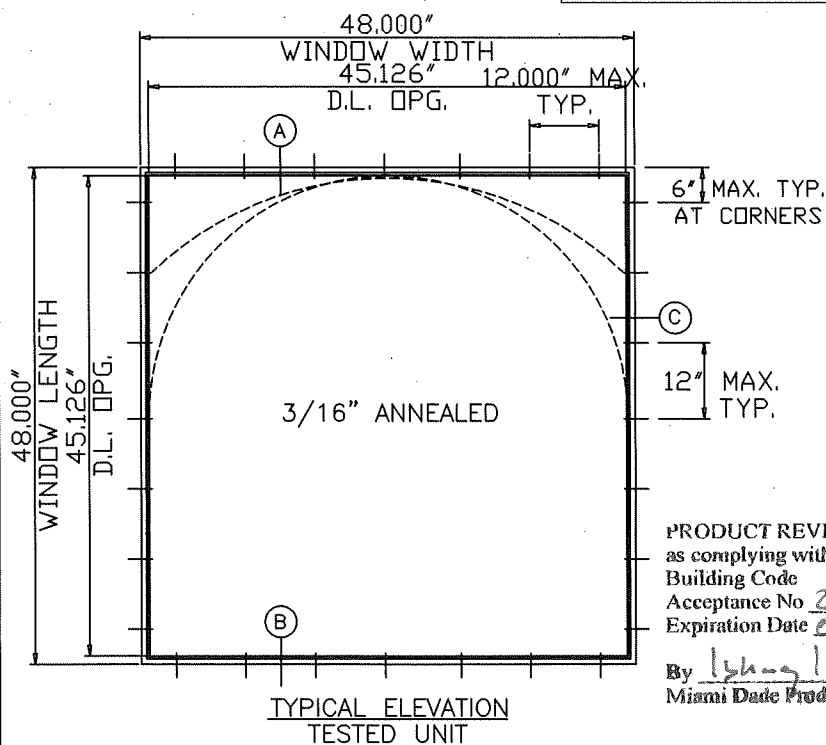
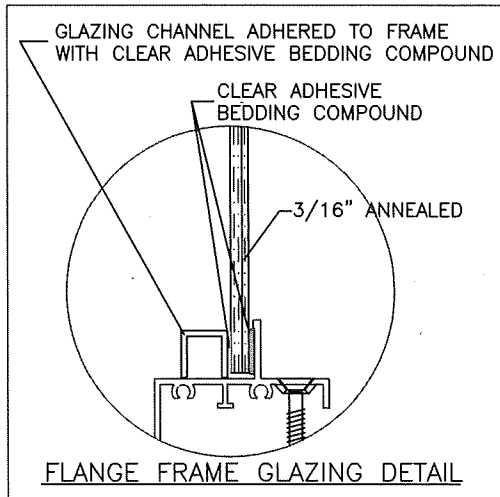
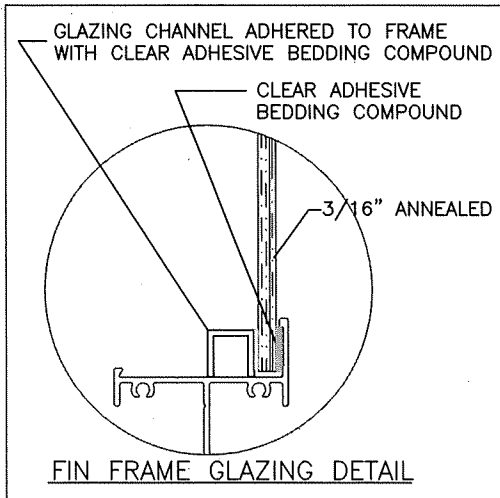
WINDOW NOTES, COMPARATIVE ANALYSIS CHARTS
W/ 5/8" INSULATED-ANNEALED GLASS & DETAILS

NO.	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	7 OF 12

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW



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



WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANNEALED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0
36	18	13	8	95.1	95.1
48	18	16	8	87.8	87.8
60	18	20	7	83.9	83.9
72	18	23	7	81.5	81.5
84	18	26	7	79.9	79.9
96	18	29	7	78.7	78.7
108	18	32	7	77.8	77.8
120	18	36	7	77.1	77.1
132	18				
144	18				
148	18				
156	18				
24	24	13	7	100.0	100.0
36	24	15	8	80.3	80.3
48	24	18	8	71.3	71.3
60	24	21	8	66.9	66.9
72	24	24	8	64.2	64.2
84	24	27	8	62.4	62.4
96	24	30	8	61.0	61.0
108	24				
120	24				
132	24				
144	24				
148	24				
156	24				
24	30	14	7	89.2	89.2
36	30	17	7	73.4	73.4
48	30	19	8	62.3	62.3
60	30	21	8	54.1	54.1
72	30	21	9	45.0	45.0
84	30				
96	30				
108	30				
120	30				
132	30				
144	30				
148	30				
156	30				

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANNEALED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	36	15	8	80.3	80.3
36	36	20	7	71.3	71.3
48	36	21	8	57.1	57.1
60	36	23	8	50.0	50.0
72	36				
84	36				
96	36				
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	18	8	71.3	71.3
36	48	21	8	57.1	57.1
48	48	26	7	53.5	53.5
60	48				
72	48				
84	48				
96	48				
108	48				
120	48				
132	48				
144	48				
148	48				
156	48				
24	60	21	8	66.9	66.9
36	60	23	8	50.0	50.0
48	60				
60	60				
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144	60				
148	60				
156	60				

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANNEALED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	72	24	8	64.2	64.2
36	72				
48	72				
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	27	8	62.4	62.4
36	84				
48	84				
60	84				
72	84				
84	84				
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	96.9	96.9
37	26	16	7	76.1	76.1
53.125	26	20	7	65.4	65.4
19.125	38.375	14	8	89.4	89.4
26.5	38.375	16	8	74.0	74.0
37	38.375	21	7	67.0	67.0
53.125	38.375	23	7	52.4	52.4
19.125	50.625	17	8	82.8	82.8
26.5	50.625	19	8	65.6	65.6
37	50.625	22	7	54.7	54.7
53.125	50.625				
19.125	58	19	8	80.4	80.4
26.5	58	21	8	62.8	62.8
37	58	24	7	51.0	51.0
53.125	58				
19.125	63	21	7	79.2	79.2
26.5	63	22	8	59.9	59.9
37	63				
53.125	63				
19.125	74.25	24	7	77.1	77.1
26.5	74.25	23	8	54.5	54.5
37	74.25				
53.125	74.25				

FLANGE FRAME ANCHORS ARE TO BE SPACED WINDOW FRAME SIZE NOTE:
NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

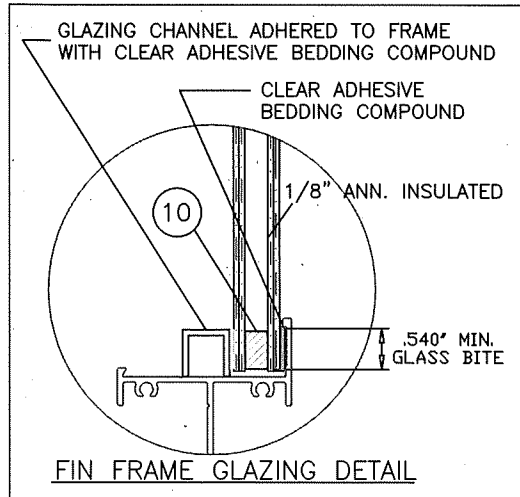
UNIT PERFORMANCE DATA REPORT #FTL-3623	
TEST SIZE = 48" wide X 48" hi (0)	WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619
DESIGN LOADS = +53.50, -53.50 PSF (PA-202)	DAYLIGHT OPENING = 45 1/8" wide X 45 1/8" hi
STRUCTURAL TEST LOAD = +80.3, -80.3 PSF	TESTED GLASS = 3/16" ANNEALED GLASS

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225
DATE JUN 19 2025

SHEET DESCRIPTION: WINDOW NOTES, COMPARATIVE ANALYSIS CHARTS W/ 3/16" ANNEALED GLASS & DETAILS					
NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	8 OF 12

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW

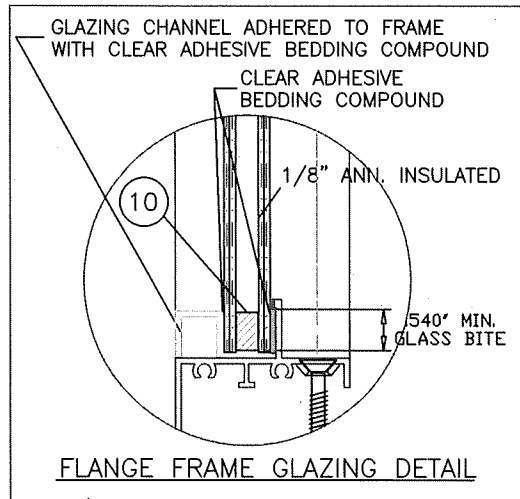
CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC



10

Insulated Spacer Types & Options

- 10a) "TrueSeal" Swiggle Seal
- 10b) "Quanex" SuperSpacer w/ Isomelt M
- 10c) "Quanex" Duraseal



WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANN. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0
36	18	14	7	96.0	96.0
48	18	17	7	88.6	88.6
60	18	20	7	84.7	84.7
72	18	23	7	82.3	82.3
84	18	26	7	80.6	80.6
96	18	29	7	79.4	79.4
108	18	33	7	78.5	78.5
120	18	36	7	77.8	77.8
132	18				
144	18				
148	18				
156	18				
24	24	13	7	100.0	100.0
36	24	15	8	81.0	81.0
48	24	18	8	72.0	72.0
60	24	19	8	62.7	62.7
72	24	20	9	52.4	52.4
84	24	21	10	47.8	47.8
96	24	23	10	45.5	45.5
108	24				
120	24				
132	24				
144	24				
148	24				
156	24				
24	30	14	7	90.0	90.0
36	30	17	7	74.1	74.1
48	30	20	7	62.8	62.8
60	30	22	8	57.6	57.6
72	30	21	9	45.2	45.2
84	30				
96	30				
108	30				
120	30				
132	30				
144	30				
148	30				
156	30				

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANN. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	36	15	8	81.0	81.0
36	36	20	7	72.0	72.0
48	36	21	8	57.6	57.6
60	36	24	8	51.4	51.4
72	36				
84	36				
96	36				
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	18	8	72.0	72.0
36	48	21	8	57.6	57.6
48	48	27	7	54.0	54.0
60	48				
72	48				
84	48				
96	48				
108	48				
120	48				
132	48				
144	48				
148	48				
156	48				
24	60	19	8	62.7	62.7
36	60	24	8	51.4	51.4
48	60				
60	60				
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144	60				
148	60				
156	60				

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANN. INSULATED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	72	20	9	52.4	52.4
36	72				
48	72				
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	21	10	47.8	47.8
36	84				
48	84				
60	84				
72	84				
84	84				
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	97.8	97.8
37	26	16	7	76.8	76.8
53.125	26	20	7	66.0	66.0
19.125	38.375	14	8	90.3	90.3
26.5	38.375	16	8	74.7	74.7
37	38.375	21	7	67.6	67.6
53.125	38.375	23	7	52.9	52.9
19.125	50.625	18	7	83.5	83.5
26.5	50.625	19	8	66.2	66.2
37	50.625	22	7	55.2	55.2
53.125	50.625				
19.125	58	19	8	81.1	81.1
26.5	58	21	8	63.3	63.3
37	58	24	7	51.4	51.4
53.125	58				
19.125	63	21	7	79.9	79.9
26.5	63	20	8	55.0	55.0
37	63				
53.125	63				
19.125	74.25	24	7	77.8	77.8
26.5	74.25	19	10	45.5	45.5
37	74.25				
53.125	74.25				

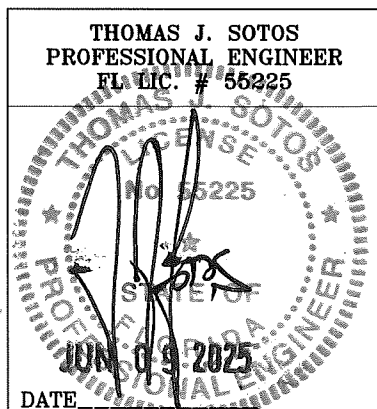
FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

WINDOW FRAME SIZE NOTE:

1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

UNIT PERFORMANCE DATA REPORT #FTL-3625

TEST SIZE = 48" wide X 48" hi (0) WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619
DESIGN LOADS = +54.00, -54.00 PSF (PA-202) DAYLIGHT OPENING = 45 1/8" wide X 45 1/8" hi
STRUCTURAL TEST LOAD = +81.00, -81.00 PSF TESTED GLASS = 1/8" ANNEALED GLASS
DOUBLE GLAZED INSULATED

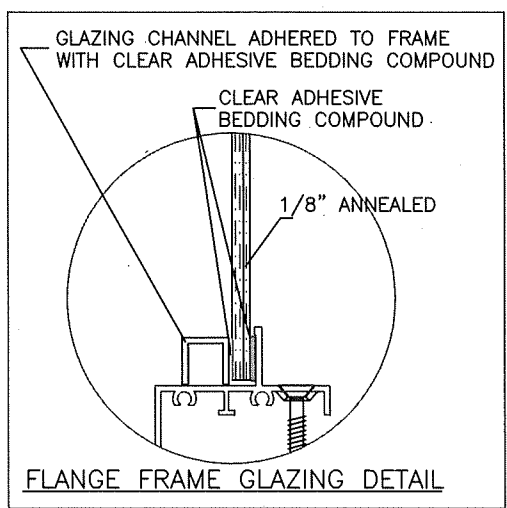
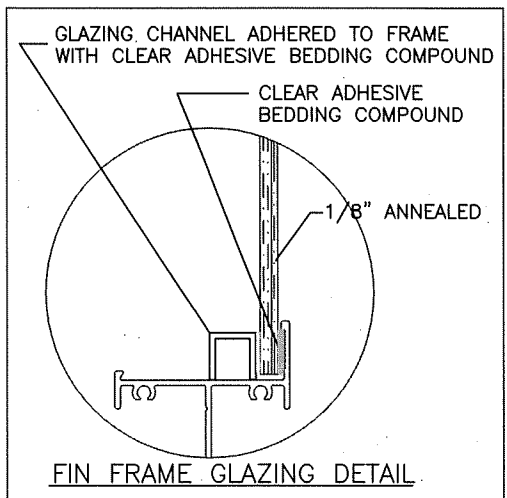


SHEET DESCRIPTION:					
WINDOW NOTES, COMPARATIVE ANALYSIS CHARTS W/ 1/2" INSULATED-ANNEALED GLASS & DETAILS					
NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	9 OF 12

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 25-0612.05
Expiration Date 05/08/2028
By Ishay I. Chous
Miami Date Product Control

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW





WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANNEALED MONO					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	64.0	64.0
36	18	13	8	53.3	53.3
48	18	16	8	49.2	49.2
60	18	20	7	47.1	47.1
72	18	23	7	45.7	45.7
84	18	26	7	44.8	44.8
96	18	29	7	44.1	44.1
108	18	32	7	43.6	43.6
120	18	36	7	43.2	43.2
132	18				
144	18				
148	18				
156	18				
24	24	13	7	60.0	60.0
36	24	15	8	45.0	45.0
48	24	18	8	40.0	40.0
60	24	21	8	34.8	34.8
72	24	24	8	29.1	29.1
84	24	27	8	26.6	26.6
96	24	30	8	25.3	25.3
108	24				
120	24				
132	24				
144	24				
148	24				
156	24				
24	30	14	7	50.0	50.0
36	30	17	7	41.1	41.1
48	30	19	8	34.9	34.9
60	30	21	8	32.0	32.0
72	30	21	9	25.1	25.1
84	30				
96	30				
108	30				
120	30				
132	30				
144	30				
148	30				
156	30				

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANNEALED MONO					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	36	15	8	45.0	45.0
36	36	20	7	40.0	40.0
48	36	21	8	32.0	32.0
60	36	23	8	28.6	28.6
72	36				
84	36				
96	36				
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	18	8	40.0	40.0
36	48	21	8	32.0	32.0
48	48	26	7	30.0	30.0
60	48				
72	48				
84	48				
96	48				
108	48				
120	48				
132	48				
144	48				
148	48				
156	48				
24	60	21	8	34.8	34.8
36	60	23	8	28.6	28.6
48	60				
60	60				
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144	60				
148	60				
156	60				

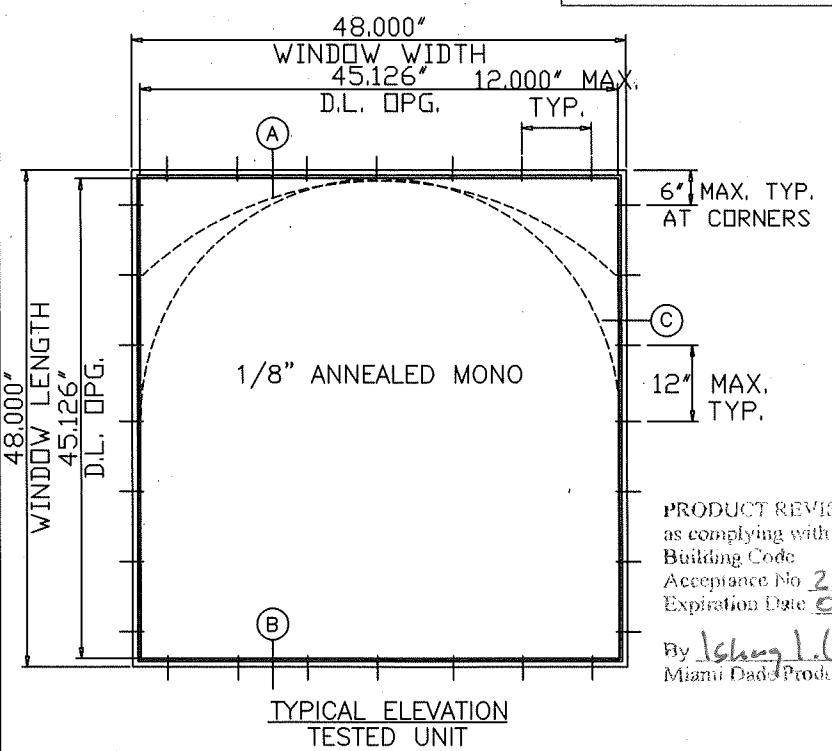
WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANNEALED MONO					
Window Size		FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	72	24	8	29.1	29.1
36	72				
48	72				
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	27	8	26.6	26.6
36	84				
48	84				
60	84				
72	84				
84	84				
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	59.5	59.5
26.5	26	15	7	54.4	54.4
37	26	16	7	42.7	42.7
53.125	26	20	7	36.7	36.7
19.125	38.375	14	8	50.1	50.1
26.5	38.375	16	8	41.5	41.5
37	38.375	21	7	37.6	37.6
53.125	38.375	23	7	29.4	29.4
19.125	50.625	17	8	46.4	46.4
26.5	50.625	19	8	36.8	36.8
37	50.625	22	7	30.7	30.7
53.125	50.625				
19.125	58	19	8	45.1	45.1
26.5	58	21	8	35.1	35.1
37	58	24	7	28.6	28.6
53.125	58				
19.125	63	21	7	44.4	44.4
26.5	63	22	8	30.5	30.5
37	63				
53.125	63				
19.125	74.25	24	7	43.2	43.2
26.5	74.25	23	8	25.3	25.3
37	74.25				
53.125	74.25				

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

WINDOW FRAME SIZE NOTE:
1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

UNIT PERFORMANCE DATA REPORT #FTL-3624

TEST SIZE = 48" wide X 48" hi (O) WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619
DESIGN LOADS = +30.00, -30.00 PSF (PA-202) DAYLIGHT OPENING = 45 1/8" wide X 45 1/8" hi
STRUCTURAL TEST LOAD = +45.00, -45.00 PSF TESTED GLASS = 1/8" ANNEALED GLASS



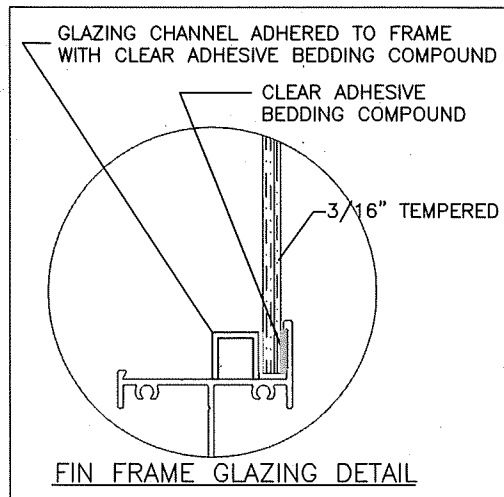
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 25-0612.05
Expiration Date 05/08/2025
By Ishay L. Chandra
Miami Dade Product Control

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225
DATE JUN 09 2025

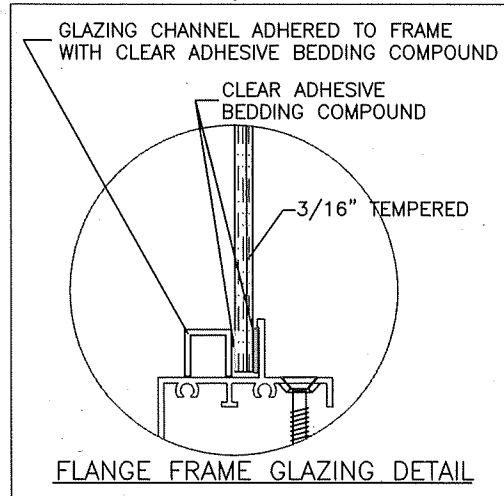
SHEET DESCRIPTION:					
WINDOW NOTES, COMPARATIVE ANALYSIS CHARTS W/ 1/8" ANNEALED GLASS & DETAILS					
NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	10 OF 12

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW

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



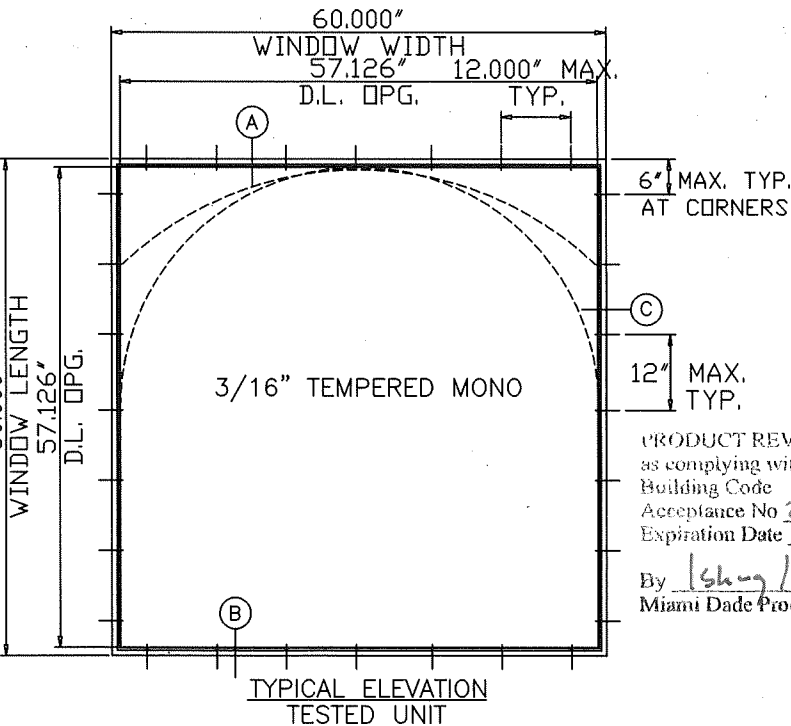
* Tempered glass marked in compliance with CPSC 16 CFR Part 1201 or "ANSI Z97.1-2015."



WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" TEMPERED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0
36	18	14	7	100.0	100.0
48	18	19	6	100.0	100.0
60	18	23	6	100.0	100.0
72	18	28	6	100.0	100.0
84	18	32	6	100.0	100.0
96	18	37	6	100.0	100.0
108	18	41	6	100.0	100.0
120	18	46	6	100.0	100.0
132	18	50	6	100.0	100.0
144	18	55	5	100.0	100.0
148	18	57	5	100.0	100.0
156	18	60	5	100.0	100.0
24	24	13	7	100.0	100.0
36	24	19	6	100.0	100.0
48	24	25	5	100.0	100.0
60	24	31	5	100.0	100.0
72	24	37	5	100.0	100.0
84	24	43	5	100.0	100.0
96	24	49	4	100.0	100.0
108	24	55	4	100.0	100.0
120	24	61	4	100.0	100.0
132	24	67	4	100.0	100.0
144	24	73	4	100.0	100.0
148	24	75	4	100.0	100.0
156	24				
24	30	16	6	100.0	100.0
36	30	23	5	100.0	100.0
48	30	31	5	100.0	100.0
60	30	38	4	100.0	100.0
72	30	46	4	100.0	100.0
84	30	54	4	100.0	100.0
96	30	61	4	100.0	100.0
108	30	69	4	100.0	100.0
120	30	76	3	100.0	100.0
132	30				
144	30				
148	30				
156	30				

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" TEMPERED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	36	19	6	100.0	100.0
36	36	28	5	100.0	100.0
48	36	37	4	100.0	100.0
60	36	46	4	100.0	100.0
72	36	55	3	100.0	100.0
84	36	64	3	100.0	100.0
96	36	73	3	100.0	100.0
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	25	5	100.0	100.0
36	48	37	4	100.0	100.0
48	48	49	3	100.0	100.0
60	48	61	3	100.0	100.0
72	48	73	3	100.0	100.0
84	48				
96	48				
108	48				
120	48				
132	48				
144	48				
148	48				
156	48				
24	60	31	5	100.0	100.0
36	60	46	4	100.0	100.0
48	60	61	3	100.0	100.0
60	60	76	3	100.0	100.0
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144	60				
148	60				
156	60				

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" TEMPERED					
Window Size		FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
HEIGHT INCHES	WIDTH INCHES	QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	72	37	5	100.0	100.0
36	72	55	3	100.0	100.0
48	72	73	3	100.0	100.0
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	43	5	100.0	100.0
36	84	64	3	100.0	100.0
48	84				
60	84				
72	84				
84	84				
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	100.0	100.0
37	26	21	6	100.0	100.0
53.125	26	30	5	100.0	100.0
19.125	38.375	16	7	100.0	100.0
26.5	38.375	22	5	100.0	100.0
37	38.375	30	5	100.0	100.0
53.125	38.375	43	4	100.0	100.0
19.125	50.625	21	6	100.0	100.0
26.5	50.625	29	5	100.0	100.0
37	50.625	40	4	100.0	100.0
53.125	50.625	57	3	100.0	100.0
19.125	58	24	6	100.0	100.0
26.5	58	33	5	100.0	100.0
37	58	46	4	100.0	100.0
53.125	58	65	3	100.0	100.0
19.125	63	26	6	100.0	100.0
26.5	63	36	4	100.0	100.0
37	63	50	4	100.0	100.0
53.125	63	71	3	100.0	100.0
19.125	74.25	30	6	100.0	100.0
26.5	74.25	42	4	100.0	100.0
37	74.25	58	3	100.0	100.0
53.125	74.25				



FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

WINDOW FRAME SIZE NOTE:
1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

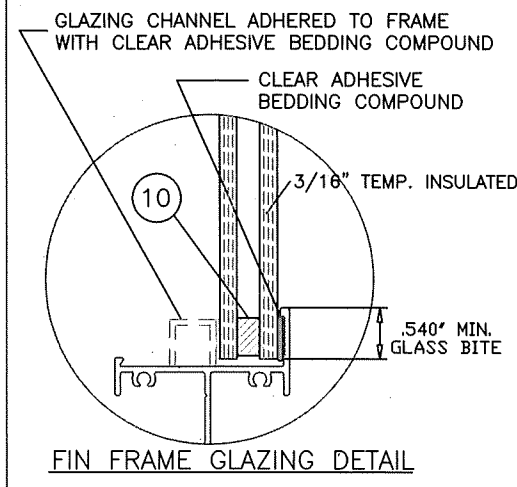
UNIT PERFORMANCE DATA REPORT #FTL-3626	
TEST SIZE = 60" wide X 60" hi (0)	WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619
DESIGN LOADS = +151.00, -151.00 PSF (PA-202)	DAYLIGHT OPENING = 57 1/8" wide X 57 1/8" hi
STRUCTURAL TEST LOAD = +226.50, -226.50 PSF	TESTED GLASS = 3/16" TEMPERED GLASS

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225
DATE JUN 13 2025

SHEET DESCRIPTION: WINDOW NOTES, COMPARATIVE ANALYSIS CHARTS W/ 3/16" TEMPERED GLASS & DETAILS					
NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	11 OF 12

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW

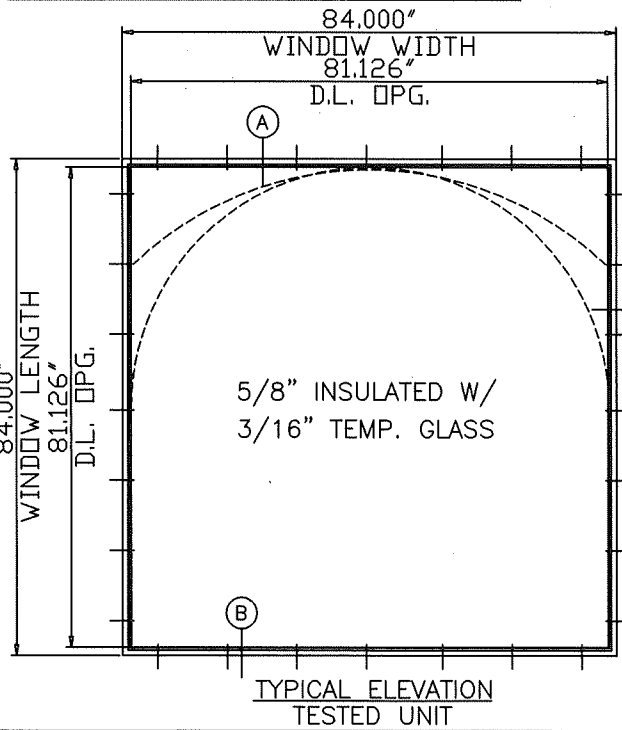
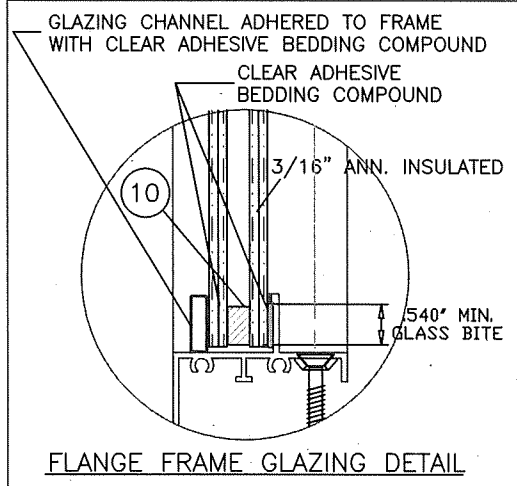
CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC



10 Insulated Spacer Types & Options

- 10a) "TrueSeal" Swiggle Seal
- 10b) "Quanex" SuperSpacer w/ Isomelt M
- 10c) "Quanex" Duraseal

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



WINDOW COMPARATIVE ANALYSIS CHART FOR 5/8" INSULATED TEMPERED					
WIDTH INCHES	HEIGHT INCHES	FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
		QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0
36	18	14	7	100.0	100.0
48	18	19	6	100.0	100.0
60	18	23	6	100.0	100.0
72	18	28	6	100.0	100.0
84	18	32	6	100.0	100.0
96	18	37	6	100.0	100.0
108	18	41	6	100.0	100.0
120	18	46	6	100.0	100.0
132	18	50	6	100.0	100.0
144	18	55	5	100.0	100.0
148	18	57	5	100.0	100.0
156	18	60	5	100.0	100.0
24	24	13	7	100.0	100.0
36	24	19	6	100.0	100.0
48	24	25	5	100.0	100.0
60	24	31	5	100.0	100.0
72	24	37	5	100.0	100.0
84	24	43	5	100.0	100.0
96	24	49	4	100.0	100.0
108	24	55	4	100.0	100.0
120	24	61	4	100.0	100.0
132	24	67	4	100.0	100.0
144	24	73	4	100.0	100.0
148	24	75	4	100.0	100.0
156	24	79	4	100.0	100.0
24	30	16	6	100.0	100.0
36	30	23	5	100.0	100.0
48	30	31	5	100.0	100.0
60	30	38	4	100.0	100.0
72	30	46	4	100.0	100.0
84	30	54	4	100.0	100.0
96	30	61	4	100.0	100.0
108	30	69	4	100.0	100.0
120	30	76	3	100.0	100.0
132	30	84	3	100.0	100.0
144	30	91	3	100.0	100.0
148	30	94	3	100.0	100.0
156	30	99	3	100.0	100.0

WINDOW COMPARATIVE ANALYSIS CHART FOR 5/8" INSULATED TEMPERED					
WIDTH INCHES	HEIGHT INCHES	FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
		QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	36	19	6	100.0	100.0
36	36	28	5	100.0	100.0
48	36	37	4	100.0	100.0
60	36	46	4	100.0	100.0
72	36	55	3	100.0	100.0
84	36	64	3	100.0	100.0
96	36	73	3	100.0	100.0
108	36	82	3	100.0	100.0
120	36	91	3	100.0	100.0
132	36	100	3	100.0	100.0
144	36	110	3	100.0	100.0
148	36	113	3	100.0	100.0
156	36	119	3	100.0	100.0
24	48	25	5	100.0	100.0
36	48	37	4	100.0	100.0
48	48	49	3	100.0	100.0
60	48	61	3	100.0	100.0
72	48	73	3	100.0	100.0
84	48	85	3	100.0	100.0
96	48	97	2	100.0	100.0
108	48	110	2	100.0	100.0
120	48	120	2	98.4	98.4
132	48	129	2	96.3	96.3
144	48	138	2	94.5	94.5
148	48	141	2	94.0	94.0
156	48				
24	60	31	5	100.0	100.0
36	60	46	4	100.0	100.0
48	60	61	3	100.0	100.0
60	60	76	3	100.0	100.0
72	60	91	2	100.0	100.0
84	60	104	2	98.0	98.0
96	60	112	2	91.6	91.6
108	60	119	2	87.2	87.2
120	60				
132	60				
144	60				
148	60				
156	60				

WINDOW COMPARATIVE ANALYSIS CHART FOR 5/8" INSULATED TEMPERED					
WIDTH INCHES	HEIGHT INCHES	FIN FRAME		DESIGN LOAD CAPACITY - (PFS)	
		QTY OF ANCHORS	AVG. ANCHOR SPACING (IN)	POSITIVE	NEGATIVE
24	72	37	5	100.0	100.0
36	72	55	3	100.0	100.0
48	72	73	3	100.0	100.0
60	72	91	2	100.0	100.0
72	72	110	2	100.0	100.0
84	72	117	2	91.9	91.9
96	72	123	2	84.0	84.0
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	43	5	100.0	100.0
36	84	64	3	100.0	100.0
48	84	85	3	100.0	100.0
60	84	104	2	98.0	98.0
72	84	117	2	91.9	91.9
84	84	134	2	90.0	90.0
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	100.0	100.0
37	26	21	6	100.0	100.0
53.125	26	30	5	100.0	100.0
19.125	38.375	16	7	100.0	100.0
26.5	38.375	22	5	100.0	100.0
37	38.375	30	5	100.0	100.0
53.125	38.375	43	4	100.0	100.0
19.125	50.625	21	6	100.0	100.0
26.5	50.625	29	5	100.0	100.0
37	50.625	40	4	100.0	100.0
53.125	50.625	57	3	100.0	100.0
19.125	58	24	6	100.0	100.0
26.5	58	33	5	100.0	100.0
37	58	46	4	100.0	100.0
53.125	58	65	3	100.0	100.0
19.125	63	26	6	100.0	100.0
26.5	63	36	4	100.0	100.0
37	63	50	4	100.0	100.0
53.125	63	71	3	100.0	100.0
19.125	74.25	30	6	100.0	100.0
26.5	74.25	42	4	100.0	100.0
37	74.25	58	3	100.0	100.0
53.125	74.25	84	3	100.0	100.0

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

WINDOW FRAME SIZE NOTE:
1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

UNIT PERFORMANCE DATA REPORT #HETI # 09-2604	
TEST SIZE = 84" wide X 84" hi (0)	WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619
DESIGN LOADS = +90.00, -90.00 PSF (PA-202)	DAYLIGHT OPENING = 81 1/8" wide X 81 1/8" hi
STRUCTURAL TEST LOAD = +135.00, -135.00 PSF	TESTED GLASS = 3/16" TEMPERED GLASS
	DOUBLE GLAZED INSULATED

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

DATE: 05/08/2023

SHEET DESCRIPTION: WINDOW NOTES, COMPARATIVE ANALYSIS CHARTS W/ 5/8" INSULATED-TEMPERED GLASS & DETAILS					
NO.:	REVISION NOTES:	BY:	DATE:	DRAWN BY:	DATE:
A	Revises NDA # 23-1017.10	N.E.	05/15/25	NELSON ERAZO	11/17/2023
				REV. BY:	DATE:
				N.E.	05/15/2025
				DWG #:	REV #:
				CWS-1258	A
				SCALE:	SHEET
				AS NOTED	12 OF 12

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 25-0612.05
Expiration Date 05/08/2028
By Ishay I. Churruarín
Miami Dade Product Control

CWS 330 ALUMINUM
NON IMPACT FLANGE & FIN
FRAME NON-IMPACT
PICTURE WINDOW

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