



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 "7300 (Fin-Frame)" Aluminum Picture Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. CWS-1217 titled "Series-7300 Fin Frame Impact Picture Window", sheets 1 through 5 of 5, dated 12/18/23, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E., on 12/18/23, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LIMITATIONS: 1. Ext grade plywood attached to wood structure, under separate review by AHJ.

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

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

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

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

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

This NOA revises NOA #23-1010.01 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 **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
02/01/2024

NOA No. 24-0116.10
Expiration Date: 07/19/2027
Approval Date: 02/01/2024

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. 12-0416.10)
2. Drawing No **L4300-6300-1201**, titled "Series-4300-6300 Fin Frame Impact Fixed Window", sheets 1 through 5 of 5, dated 02/21/12, with revision **D** dated 07/31/20, prepared by manufacturer, and signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 20-0813.09)

B. TESTS

1. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an arch and a rectangular fin-frame fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.: **HETI-12-4011**, dated 03/14/12 and **HETI-11-3362**, dated 03/14/12; all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No.12-0416.10)
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
along with marked-up drawings and installation diagram of a circular arch fin-frame fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-08-2026**, dated 10/23/08, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0416.10)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a rectangular, fin-frame fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-07-4379**, dated 10/23/08 and **HETI-08-2218A**, dated 11/18/08, all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0416.10)
4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a rectangular-, a circular arch- and an elliptical arch fin-frame fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.: **HETI-09-2540**, dated 09/04/09; **HETI-09-2538**, dated 09/04/09; **HETI-09-2539**, dated 09/04/09; **HETI-09-2536**, dated 09/04/09; **HETI-08-2027**, dated 10/23/08; **HETI-08-2029**, dated 10/23/08; **HETI-09-2030**, dated 10/23/08 and **HETI-08-2218B**, dated 11/18/08; all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0416.10)


Helmy A Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.10
Expiration Date: 07/19/2027
Approval Date: 02/01/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying **FBC 5th Edition (2014)**, dated 09/02/14, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No.14-0908.17)
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. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 11/19/20, expiring on 07/08/24.
2. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** for their "**Saflex PVB Interlayers - Clear and Colored for Glass**" dated 04/29/21, expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated April 27, 2022, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 22-0509.03)
2. Proposal No. **07-2527** issued by Product Control, dated 03/29/07, signed by Manuel Perez, P.E.
(Submitted under NOA No. 12-0416.10)
3. Laboratory compliance letter for Test Reports No. **HETI-08-2026**, dated 10/23/08, **HETI-08-2026**, dated 10/23/08, **HETI-09-2539**, dated 09/04/09, **HETI-07-4379**, dated 10/23/08, **HETI-08-2218A**, dated 11/18/08, **HETI-09-540**, dated 09/04/09, **HETI-09-2538**, dated 09/04/09, **HETI-09-2536**, dated 09/04/09, **HETI-08-2027**, dated 10/23/08, **HETI-08-2029**, dated 10/23/08, **HETI-08-2030**, dated 10/23/08 and **HETI-08-2218B**, dated 11/18/08, all issued by Hurricane Engineering & Testing, Inc., signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0416.10)
4. Laboratory compliance letter for Test Reports No. **HETI-12-4011**, dated 03/14/12 and **HETI-11-3362**, dated 03/14/12, both issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael Droz-Seda, P.E.
(Submitted under NOA No. 12-0416.10)



Helmy A Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.10
Expiration Date: 07/19/2027
Approval Date: 02/01/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

G. OTHERS

1. Notice of Acceptance No. **20-0813.09**, issued to Lawson Industries, Inc. for their Series "4300/ 6300 Fin Frame" Aluminum Fixed Window – L.M.I., approved on 10/22/20 and expiring on 07/19/22.

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA #23-1010.01

A. DRAWINGS

1. Drawing No **L4300-6300-1201**, titled "Series-4300-6300 Fin Frame Impact Fixed Window", sheets 1 through 5 of 5, dated 02/21/12, with revision **E** dated 09/29/23, 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, 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.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE


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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 11/19/20, expiring on 07/08/24.
2. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** for their "**Saflex PVB Interlayers - Clear and Colored for Glass**" dated 04/29/21, expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated October 4, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
2. Statement letter of no financial interest, dated October 4, 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.


Helmy A Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.10
Expiration Date: 07/19/2027
Approval Date: 02/01/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHERS

1. Notice of Acceptance No. **22-0509.03**, issued to Lawson Industries, Inc. for their Series "4300/ 6300 (Fin Frame)" Aluminum Fixed Window – L.M.I., approved on 06/02/22 and expiring on 07/19/27.

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **CWS-1217** titled "Series-7300 Fin Frame Impact Picture Window", sheets 1 through 5 of 5, dated 12/18/23, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E., on 12/18/23.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS


1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 12/18, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
2. Statement letter of no financial interest, dated December 18, 2023, issued by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.
3. Private Labeling Agreement document in conformance to Product Control guidelines dated 01/11/24, signed by Kevin E. Pine, Vice President.

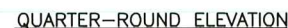
G. OTHERS

1. Notice of Acceptance No. **23-1010.01**, issued to Lawson Industries, Inc. for their Series "4300/ 6300 (Fin Frame)" Aluminum Fixed Window – L.M.I., approved on 11/02/23 and expiring on 07/19/27.



Helmy A Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.10
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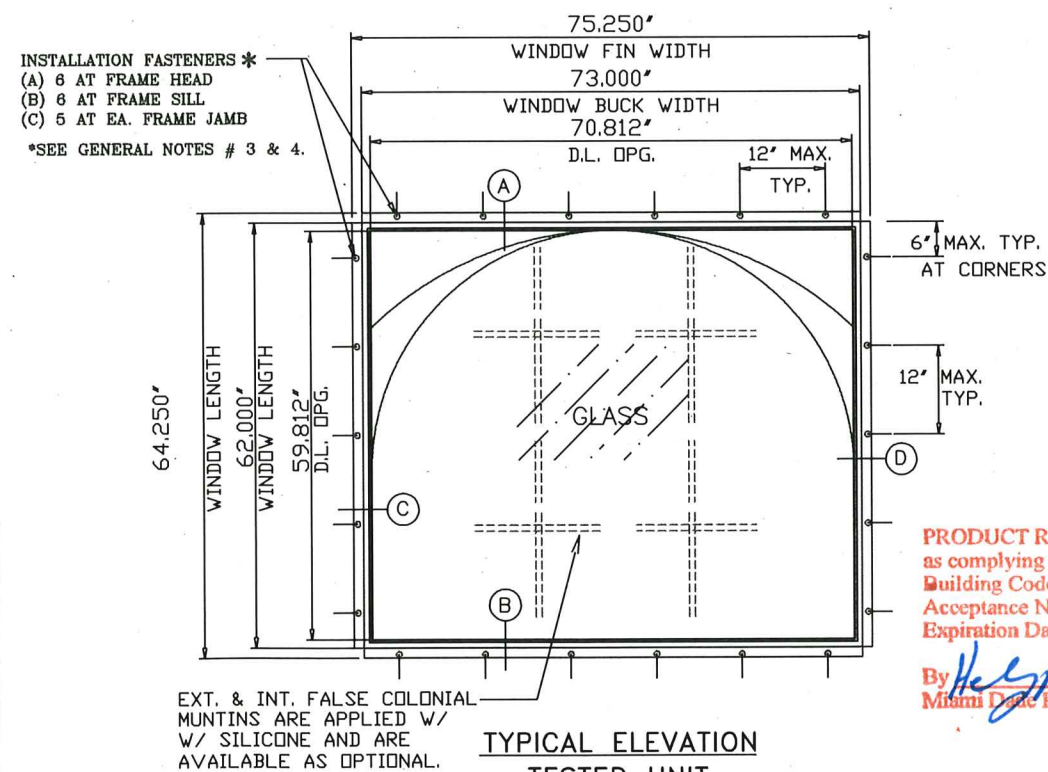
APPROVED WINDOW ELEVATIONS (L.M.IMPACT)



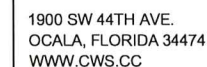
ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN, CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN A SQUARE OR RECTANGLE, AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. PROVIDED PERIMETER FASTENERS ARE AS DESCRIBED HEREIN FOR SIZE AND SPACING.

- 1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (2020-7th Edition & 2023-8th Edition) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) AND ASTM 1300-09. THIS PRODUCT IS IMPACT RESISTANT. (SHUTTERS NOT REQUIRED)
- 2.) WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH THE REQUIREMENTS OF F.B.C. & TO BE REVIEWED BY BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ABOVE ARE AS PER TEST UNITS. ANCHORS ON ALL WINDOW SIZES ARE NOT TO EXCEED THESE MAXIMUM SPACINGS ON CENTER (O.C.) .
- 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 LAMINATED GLASS TYPES TABULATED HEREIN (SEE SHEET #3 & 4), AND FOR USE WITH DOUBLE GLAZE LAMINATED INSULATED GLASS TYPES TABULATED HEREIN (SEE SHEET #3 & 4).
- 6.) WINDOWS WITH GLASS TYPES "E, F, G, OR H" INSTALLED ABOVE 30ft. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED TO COMPLY WITH THE SMALL MISSILE IMPACT RESISTANCE REQUIREMENTS (FBC Chapter 24 Section 2411.3.3.7).
- 7.) FOR OPTIONAL FRAME INSTALLATION DETAILS SEE SHEETS 2 & 5.
- 8.) EXT. & INT. FALSE COLONIAL MUNTINS ARE OPTIONAL & AND ARE APPLIED W/ SILICONE
- 9.) WOOD BUCKS IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED AND ANCHORED (BY OTHERS), PRIOR TO WINDOW INSTALLATION.
- 10.) APPROVAL APPLIES TO SINGLE UNITS, SIDE BY SIDE OR TOP STACKED MULLED UNITS.
- 11.) MULLING FIXED WINDOWS WITH OTHER TYPES OF MIAMI-DADE COUNTY APPROVED PRODUCTS USING A MIAMI-DADE COUNTY APPROVED MULLION IN BETWEEN ARE ACCEPTABLE BUT THE LOWER DESIGN PRESSURE FROM THE WINDOWS OR MULLION APPROVAL WILL APPLY YO THE ENTIRE MULLED SYSTEM.
- 12.) SEE SHEET # 5 FOR MULLION/METAL ATTACHMENT DETAILS & OPTIONS.

**WINDOWS ARE L.M. IMPACT
DADE COUNTY APPROVED
SHUTTERS NOT REQUIRED**



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 24-0116.10
Expiration Date 07/19/2027
By H. G. A. Miller
Miami-Dade Product Control



**7300 ALUMINUM
PICTURE WINDOW -
IMPACT FIN FRAME**

[illegible]

DATE DEC 18 2023

THOMAS J. SOTOS, P.E.
FL P.E. LIC. # 55225

SHEET DESCRIPTION:
APPROVED ELEVATIONS,
CONFIGURATIONS AND
GENERAL NOTES

DRAWN BY:	DATE:
N. Erazo	12/18/2023

REV. BY:	DATE:
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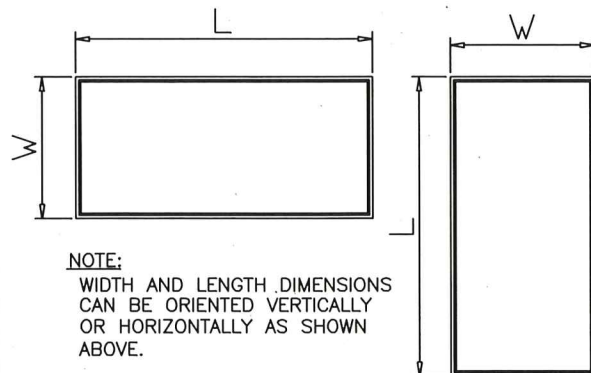
DWG #:	REV #:
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CWS-1217

SCALE:	SHEET 1 OF 5
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DESIGN LOAD CAPACITY - PSF													
WINDOW BUCK DIMS		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'D'		GLASS TYPE 'E'		GLASS TYPE 'F'		GLASS TYPE 'G' & 'H'	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
18-1/8"	25"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
25-1/2"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
36"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
52-1/8"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
62"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
18-1/8"	37-3/8"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
25-1/2"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
36"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
52-1/8"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
62"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
18-1/8"	49-5/8"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
25-1/2"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
36"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
52-1/8"		53.00	53.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
62"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
18-1/8"	57"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
25-1/2"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
36"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
52-1/8"		53.00	53.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
62"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
18-1/8"	62"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
25-1/2"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
36"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		57.00	57.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
52-1/8"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
62"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
18-1/8"	73"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
25-1/2"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
36"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		53.00	53.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
52-1/8"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
62"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
18-1/8"	73-1/4"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
25-1/2"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
36"		53.00	53.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
47"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
52-1/8"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON
A: ASTM E1300-04



5/16" LAMINATED GLASS COMPOSITION - TYPE A		
ITEM	GLASS DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	1/8" ANNEALED GLASS	

5/16" LAMINATED GLASS COMPOSITION - TYPE B		
ITEM	GLASS DESCRIPTION	DETAIL
1	1/8" HEAT-STRENGTHENED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	1/8" HEAT-STRENGTHENED GLASS	

7/16" LAMINATED GLASS COMPOSITION - TYPE D		
ITEM	GLASS DESCRIPTION	DETAIL
1	3/16" HEAT-STRENGTHENED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	3/16" HEAT-STRENGTHENED GLASS	

LAMINATED INSULATED GLASS COMPOSITION TYPE E		
ITEM	DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	1/8" ANNEALED GLASS	
4	1/4" INSULATED AIR SPACE	
5	1/8" ANNEALED GLASS	

LAMINATED INSULATED GLASS COMPOSITION TYPE F		
ITEM	DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" SAFLEX PVB by Eastman Chemical co.	
3	1/8" ANNEALED GLASS	
4	1/4" INSULATED AIR SPACE	
5	1/8" HEAT-STRENGTHENED GLASS	

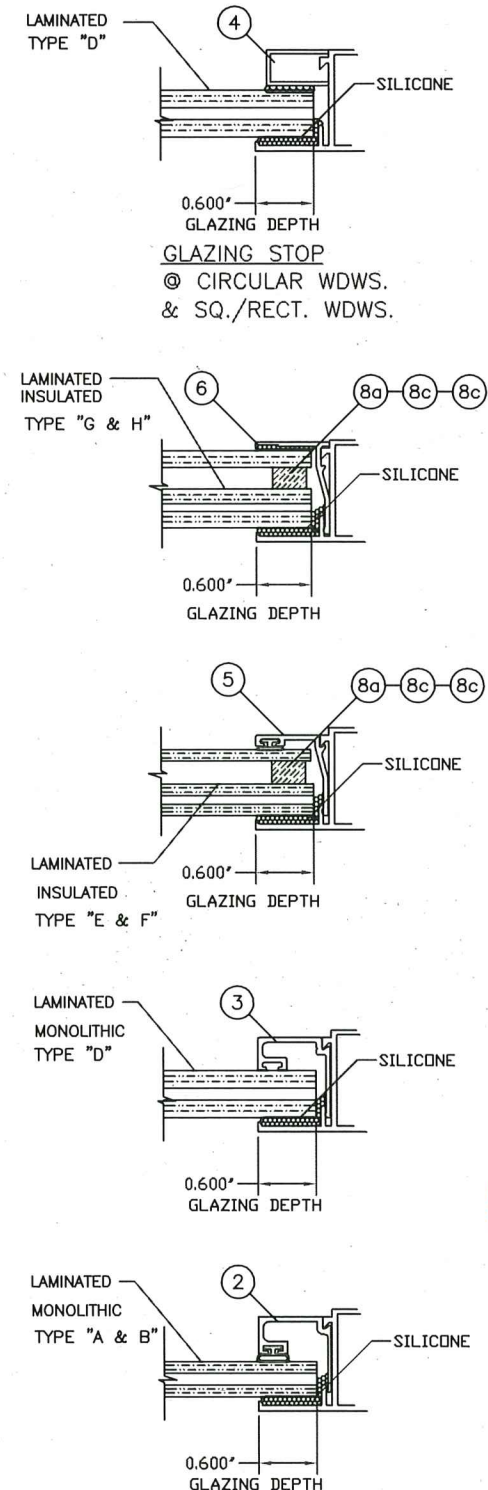
LAMINATED INSULATED GLASS COMPOSITION TYPE G		
ITEM	DESCRIPTION	DETAIL
1	3/16" HEAT-STRENGTHENED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	3/16" HEAT-STRENGTHENED GLASS	
4	1/4" INSULATED AIR SPACE	
5	3/16" ANNEALED GLASS	

LAMINATED INSULATED GLASS COMPOSITION TYPE H		
ITEM	DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" SAFLEX PVB by Eastman Chemical co.	
3	1/8" ANNEALED GLASS	
4	1/4" INSULATED AIR SPACE	
5	3/16" ANNEALED GLASS	

- ⑧ Insulated Spacer Types & Options
- 8 a) "TrueSeal" Swiggle Seal
 - 8 b) "Quanex" SuperSpacer w/ Isomelt M
 - 8 c) "Quanex" Duraseal

Notes: (*)

- 1.) WINDOWS WITH GLASS TYPES "E, F, G, OR H" INSTALLED ABOVE 30 FT. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED TO COMPLY WITH THE SMALL MISSILE IMPACT RESISTANCE REQUIREMENTS (FBC-Chapter 24 Section 2411.3.3.7).



TYPICAL GLAZING DETAILS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 24-0116.10
Expiration Date 07/19/2027
By *Helga A. Miller*
Miami Data Product Control



7300 ALUMINUM PICTURE WINDOW - IMPACT FIN FRAME

NO.		DESCRIPTION	BY	DATE



DATE DEC 18 2023

THOMAS J. SOTOS, P.E.
FL P.E. LIC. # 55225

SHEET DESCRIPTION:
DESIGN LOAD CHARTS,
LAMINATED GLASS TYPES,
GLAZING DETAILS AND NOTES

DRAWN BY:	DATE:
N. Erazo	12/18/2023
REV. BY:	DATE:
---	---
DWG #:	REV #:
CWS-1217	---
SCALE:	SHEET
---	3 OF 5

DESIGN LOAD CAPACITY - PSF													
WINDOW BUCK DIMS		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'D'		GLASS TYPE 'E'		GLASS TYPE 'F'		GLASS TYPE 'G' & 'H'	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
23"	35"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
29"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
35"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
41"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
53"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
59"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
23"	47"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
29"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
35"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
41"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
53"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
59"		57.00	57.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
23"	59"	53.00	53.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
29"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
35"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
41"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		57.00	57.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
53"		53.00	53.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
59"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
23"	71"	-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
29"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
35"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
41"		55.80	55.80	52.00	52.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
47"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
53"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
59"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
23"	73"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
29"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
35"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
41"		53.90	53.90	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
47"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
53"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
59"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
23"	83"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
29"		66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
35"		54.70	54.70	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
41"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
47"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
59"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
23"	95"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
29"		49.70	49.70	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
35"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
41"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
23"	107"	66.00	66.00	66.00	66.00	60.00	60.00	60.00	60.00	57.00	57.00	60.00	60.00
29"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
35"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
23"	119"	57.00	57.00	52.00	52.00	60.00	60.00	-	-	57.00	57.00	60.00	60.00
29"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00
35"		-	-	-	-	60.00	60.00	-	-	-	-	60.00	60.00

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON
A: ASTM E1300-04

5/16" LAMINATED GLASS COMPOSITION - TYPE A		
ITEM	GLASS DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	1/8" ANNEALED GLASS	

5/16" LAMINATED GLASS COMPOSITION - TYPE B		
ITEM	GLASS DESCRIPTION	DETAIL
1	1/8" HEAT-STRENGTHENED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	1/8" HEAT-STRENGTHENED GLASS	

7/16" LAMINATED GLASS COMPOSITION - TYPE D		
ITEM	GLASS DESCRIPTION	DETAIL
1	3/16" HEAT-STRENGTHENED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	3/16" HEAT-STRENGTHENED GLASS	

LAMINATED INSULATED GLASS COMPOSITION TYPE E		
ITEM	DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	1/8" ANNEALED GLASS	
4	1/4" INSULATED AIR SPACE	
5	1/8" ANNEALED GLASS	

LAMINATED INSULATED GLASS COMPOSITION TYPE F		
ITEM	DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" SAFLEX PVB by Eastman Chemical co.	
3	1/8" ANNEALED GLASS	
4	1/4" INSULATED AIR SPACE	
5	1/8" HEAT-STRENGTHENED GLASS	

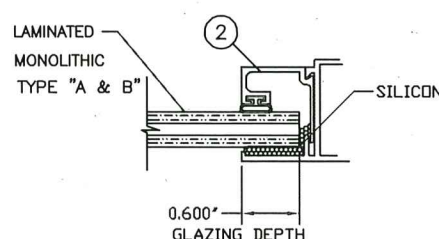
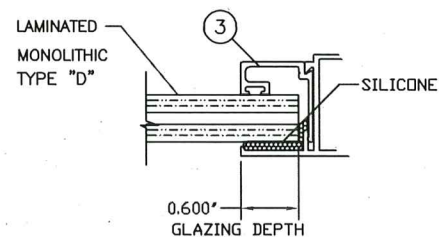
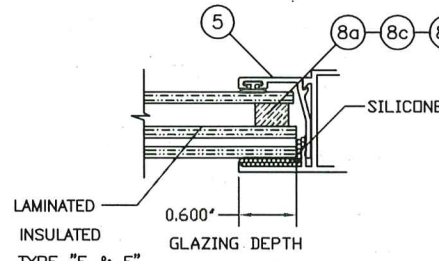
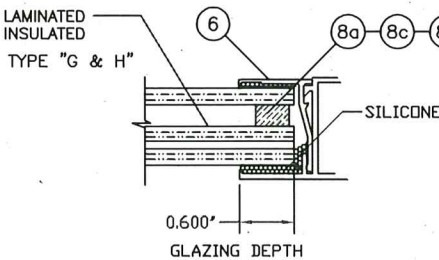
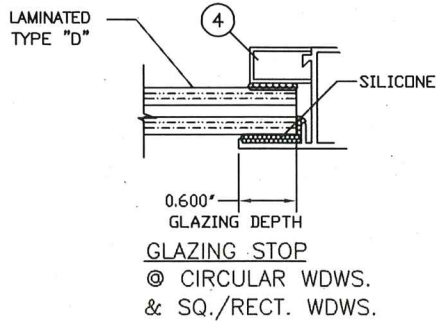
LAMINATED INSULATED GLASS COMPOSITION TYPE G		
ITEM	DESCRIPTION	DETAIL
1	3/16" HEAT-STRENGTHENED GLASS	
2	0.090" TROSIFOL PVB by Kuraray America, Inc.	
3	3/16" HEAT-STRENGTHENED GLASS	
4	1/4" INSULATED AIR SPACE	
5	3/16" ANNEALED GLASS	

LAMINATED INSULATED GLASS COMPOSITION TYPE H		
ITEM	DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" SAFLEX PVB by Eastman Chemical co.	
3	1/8" ANNEALED GLASS	
4	1/4" INSULATED AIR SPACE	
5	3/16" ANNEALED GLASS	

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

Notes: (*)

- 1.) WINDOWS WITH GLASS TYPES "E, F, G, OR H" INSTALLED ABOVE 30 FT. IN THE HVHZ, THE I.G. EXTERIOR LITE SHALL BE TEMPERED TO COMPLY WITH THE SMALL MISSILE IMPACT RESISTANCE REQUIREMENTS (FBC-Chapter 24 Section 2411.3.3.7).



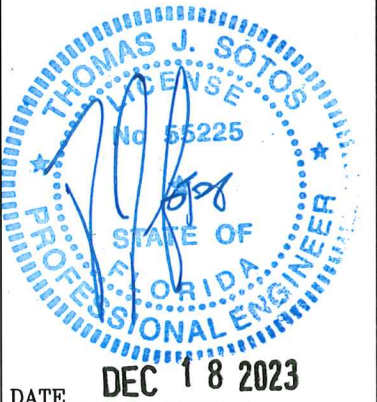
TYPICAL GLAZING DETAILS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 24-0116.10
Expiration Date 07/19/2027
By: *Healy, M. L.*
Miami Data Product Control



7300 ALUMINUM
PICTURE WINDOW -
IMPACT FIN FRAME

NO.		DESCRIPTION	BY	DATE



THOMAS J. SOTOS, P.E. FL P.E. LIC. # 55225	
SHEET DESCRIPTION: DESIGN LOAD CHARTS, LAMINATED GLASS TYPES, GLAZING DETAILS AND NOTES	
DRAWN BY: N. Erazo	DATE: 12/18/2023
REV. BY: ---	DATE: ---
DWG #: CWS-1217	REV #:
SCALE: ---	SHEET 4 OF 5

BILL OF MATERIALS					
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	REMARKS
1	L-4301	2	FRAME HEAD/SILL/JAMB	6063-T6	—
2	L-7708P	4	GLAZING BEAD (5/16" GLASS)	6063-T6	—
3	L-4205	4	GLAZING BEAD (3/8" & 13/32" GLASS)	6063-T6	—
4	L-4204	AS REQD.	GLAZING BEAD AT CIRCULAR WDWS.	6063-T5	—
5	L-7709	4	GLAZING BEAD (5/16" GLASS- INSULATED)	6063-T6	—
6	L-6211	4	GLAZING BEAD (7/16" GLASS - INSULATED)	6063-T6	—
7	#8 X 3/4"	2/ CORNER	ASSEMBLY SCREWS	—	P.H. PHILLIPS
8a	812-25H-357	AS REQD.	"TruSeal" Swiggle Spacer	Black	1/4" Air Spacer
8b	*	AS REQD.	"TruSeal" Dura-Seal Spacer	Black	1/4" Air Spacer
8c	*	AS REQD.	"QUANEX" SuperSpacer w/ Isomelt M	Black	1/4" Air Spacer
9	VWS-004	AS REQD.	GLAZING VINYL BULB - TEAM PLASTICS	FLEX. PVC	Material Composition Below
10	PWS-001	AS REQD.	PILE WTS'P SEAL	*	.187" w. X .150" h.
11	DC-899	AS REQD.	GLAZING SILICONE	*	DOW CORNING
12	PL 75.6020	AS REQD.	GLAZING SETTING BLOCK	SOFT PVC	1/8" X 1/8" X 2"

Flexible Vinyl (FPVC) Composition - Team Plastics, Inc.		
*1. FPVC Black: Compound No. 7200-75		
PHYSICAL		ASTM NO.
Durometer Hardness "A", 10 sec	75	D-2240
Specific Gravity	1.45	D-792
Tensile Strength, PSI	1640	D-638
Ultimate Elongation, %	340.0	D-638
Modulus @ 100% Elongation, PSI	765.0	D-638
Impact Brittleness,	-31.0	D-746
*2. FPVC White: Compound No. 7267-75		
PHYSICAL		ASTM NO.
Durometer Hardness "A", 10 sec	75	D-2240
Specific Gravity	1.45	D-792
Tensile Strength, PSI	1640	D-638
Ultimate Elongation, %	325.0	D-638
Modulus @ 100% Elongation, PSI	765.0	D-638
Impact Brittleness,	-30.0	D-746

WINDOW FRAME EXTRUSION DETAILS	
<p>1 FRAME HEAD/SILL/JAMB</p>	<p>2 GLAZING STOP (5/16" GLASS)</p>
<p>3 GLAZING STOP (3/8" & 13/32" GLASS)</p>	<p>4 GLAZING STOP (CIRCULAR WDW.)</p>
<p>5 INSULATED GLAZING STOP (5/16" Laminated Insulated Glass)</p>	<p>6 INSULATED GLAZING STOP (7/16" Laminated Insulated Glass)</p>

<p>INTERIOR</p> <p>EXTERIOR</p> <p>WINDOW FRAME</p> <p>SEALANT</p>	<p>INTERIOR</p> <p>EXTERIOR</p> <p>WINDOW FRAME</p>
<p>NOTE: THE LOWER PRESSURES OF WINDOW OR MULL SHALL GOVERN</p> <p>1. ALL STEEL IN CONTACT WITH ALUM. TO BE PAINTED OR PLATED.</p> <p>2. METAL STRUCTURES: (STEEL OR ALUM. 1/8" MIN. THICK)</p> <p>A) STEEL : Fy = 36 KSI MIN.</p> <p>B) ALUMINUM : 6063-T5 MIN.</p>	
MULLION & METAL STRUCTURE ATTACHMENT DETAIL	

<p>2 FRAME RADIUS JOINT</p>	<p>1 FRAME END CORNER</p>
<p>SEALANT:</p> <p>FRAME CORNERS, OR JOINTS SEALED WITH A COLORED SEALANT AND PERIMETER OF GLAZING BEAD WITH CLEAR SILICONE</p>	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 24-0116-10
Expiration Date 07/19/2027
By *H. A. Miller*
Miami Date Product Control

<p>1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC</p>	
7300 ALUMINUM PICTURE WINDOW - IMPACT FIN FRAME	
NO.	DESCRIPTION:
BY:	DATE:
REVISIONS	
<p>THOMAS J. SOTOS, P.E. FL P.E. LIC. # 55225</p>	
SHEET DESCRIPTION: BILL OF MATERIALS, EXTRUSION TYPES, MULLING-ATTACHMENT DETAILS AND CORNER-JOINT ASSEMBLY DETAILS	
DRAWN BY:	DATE:
N. Erazo	12/18/2023
REV. BY:	DATE:
---	---
DWG #:	REV #:
CWS-1217	---
SCALE:	SHEET
---	5 OF 5