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

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

NOTICE OF ACCEPTANCE (NOA)

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

APPROVAL DOCUMENT: Drawing No. **CWS-1218**, titled "Series 7300 Flange 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

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 #23-1010.02** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 and E-6, 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

MIAMI-DADE COUNTY APPROVED

NOA No. 24-0116.09
Expiration Date: 08/22/2027
Approval Date: 02/01/2024

Custom Window Systems, Inc.

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. 12-0307.06)

2. Drawing No. **L4200-6200-1201**, titled "Series-4200-6200 Flange Frame Impact Fixed Window", sheets 1 through 5 of 5, dated 02/21/12, with revision **E** dated 08/10/20, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E.
(Submitted under NOA No. 20-0814.09)

B. TESTS

1. 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
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 4200/6200 aluminum fixed window, glazed with $^{7}/_{16}$" HS laminated glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-12021**, dated 03/20/20, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 20-0428.01)

2. 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-12-4010** and **HETI-11-3363**, both dated 03/05/12, signed and sealed by Rafael Droz–Seda, P.E.
(Submitted under NOA No. 12-0307.06)

3. 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-09-2614** dated 09/04/09, **HETI-09-2612** dated 09/02/09, **HETI-09-2586** dated 07/10/09, **HETI-09-2584** dated 07/10/09, **HETI-09-2582** dated 07/10/09, and **HETI-09-2580** dated 07/10/09, all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0307.06)

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.09
Expiration Date: 08/22/2027
Approval Date: 02/01/2024

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

B. TESTS (CONTINUED)

4. 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-09-2613** dated 09/04/09, **HETI-09-2611** dated 09/04/09, **HETI-09-2585** dated 07/10/09, **HETI-09-2581** dated 07/10/09 and **HETI-09-2579** dated 07/10/09, all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0307.06)

5. 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-03-1778** dated 01/30/03, **HETI-03-1779** dated 01/30/03 and **HETI-03-1776** dated 01/30/03, all signed and sealed by Rafael Droz-Seda, P.E.
(Submitted under NOA No. 03-0327.11)

6. 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-03-1777** dated 01/30/03, **HETI-03-1774A** dated 01/30/03, and **HETI-03-1774B** dated 01/30/03, all signed and sealed by Rafael Droz-Seda, P.E.
(Submitted under NOA No. 03-0327.11)

7. 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 Reports No. **HETI-02-1215** dated 04/08/02 and **HETI-01-1193** dated 04/08/02, both signed and sealed by Hector Medina, P.E.
(Submitted under NOA No. 02-0701.01)

8. 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-02-1158** dated 04/08/02, **HETI-01-1103** dated 02/12/02 and **HETI-01-1098** dated 02/11/02, all signed and sealed by Hector Medina, P.E.
(Submitted under NOA No. 02-0701.01)

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.09
Expiration Date: 08/22/2027
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 with FBC 6th Edition (2017), prepared by manufacturer, dated 04/17/20, signed and sealed by Thomas J. Sotos, P.E.
   (Submitted under NOA No. 20-0428.01)
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. **18-0725.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**" dated 05/23/19, expiring on 05/23/24.
3. Notice of Acceptance No. **20-0622.03** issued to **Eastman Chemical Company (MA)** for their "**Saflex Storm - Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 08/06/20, expiring on 12/11/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated June 08, 2022, issued by manufacturer, signed and sealed by Thomas J. Sotos, P.E.
   (Submitted under NOA No. 22-0613.03)
2. Proposal No. **19-1138** issued to Lawson Industries, Inc. by the Product Control Section, dated October 18, 2019, signed by Ishaq Chanda, P.E.
   (Submitted under NOA No. 20-0428.01)
3. Statement letter dated 01/22/18 of the editorial drawing changes issued by Lawson Inc, signed by Nelson Erazo, Senior Design Engineer.
   (Submitted under NOA No. 17-1212.13)

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.09
Expiration Date: 08/22/2027
Approval Date: 02/01/2024

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

F. STATEMENTS (CONTINUED)

4. Laboratory compliance letter for Test Reports No. **HETI-09-2614** dated 09/04/09, **HETI-09-2612** dated 09/02/09, **HETI-09-2586** dated 07/10/09, **HETI-09-2584** dated 07/10/09, **HETI-09-2582** dated 07/10/09, **HETI-09-2580** dated 07/10/09, **HETI-09-2613** dated 09/04/09, **HETI-09-2611** dated 09/04/09, **HETI-09-2585** dated 07/10/09, **HETI-09-2581** dated 07/10/09 and **HETI-09-2579** dated 07/10/09, all issued by Hurricane Engineering & Testing, Inc., signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0307.06)

5. Laboratory compliance letter for Test Reports No. **HETI-12-4010** dated 03/05/12, **HETI-11-3363** dated 03/05/12, **HETI-03-1778** dated 01/30/03, **HETI-03-1779** dated 01/30/03, **HETI-03-1776** dated 01/30/03, **HETI-03-1777** dated 01/30/03, **HETI-03-1774A** dated 01/30/03 and **HETI-03-1774B** dated 01/30/03, all issued by Hurricane Engineering & Testing, Inc., signed and sealed by Rafael Droz-Seda, P.E.
(Submitted under NOA No. 12-0307.06)

G. OTHERS

1. Notice of Acceptance No. **20-0814.09**, issued to Lawson Industries, Inc. for their Series "4200/6200 (Flange-Frame)" Aluminum Fixed Window – L.M.I., approved on 10/15/20 and expiring on 08/22/22.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL NOA #23-1010.02

A. DRAWINGS

1. Drawing No. **L4200-6200-1201**, titled "Series-4200-6200 Flange Frame Impact Fixed Window", sheets 1 through 5 of 5, dated 02/21/12, with revision **F** dated on 09/29/23, prepared by manufacturer, 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 Report No. **HETI-23-8049**, dated 07/24/23, signed and sealed by Ram N. Tewari, P.E.

Helmy A. Makar

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.09
Expiration Date: 08/22/2027
Approval Date: 02/01/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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. **22-1116.01** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**" dated 12/15/22, expiring on 07/04/28.

3. Notice of Acceptance No. **22-1130.05** issued to **Eastman Chemical Company (MA)** for their "**Saflex Storm - Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 01/26/23, expiring on 12/11/28.

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 06/13/23 and revised on 06/16/23, signed by Manuel Perez, P.E.

G. OTHERS

1. Notice of Acceptance No. **22-0613.03**, issued to Lawson Industries, Inc. for their Series "4200/6200 (Flange-Frame)" Aluminum Fixed Window – L.M.I., approved on 07/14/22 and expiring on 08/22/27.

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.09
Expiration Date: 08/22/2027
Approval Date: 02/01/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **CWS-1218**, titled "Series 7300 Flange 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.

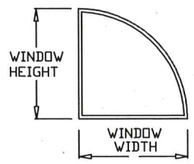
G. OTHERS

1. Notice of Acceptance No. **23-1010.02**, issued to Lawson Industries, Inc. for their Series "4200/ 6200 (Flange Frame)" Aluminum Fixed Window – L.M.I., approved on 11/02/23 and expiring on 08/22/27.

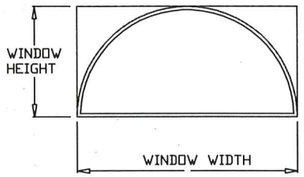
Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0116.09
Expiration Date: 08/22/2027
Approval Date: 02/01/2024

IMPACT PICTURE WINDOW – FLANGE FRAME

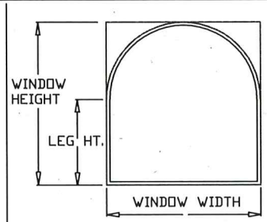
APPROVED WINDOW ELEVATIONS (L.M.IMPACT)



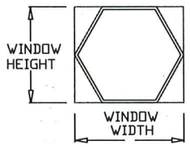
QUARTER–ROUND ELEVATION



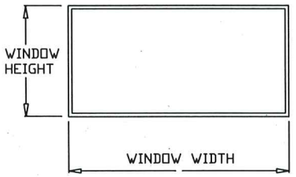
HALF–ROUND TYPICAL ELEVATION



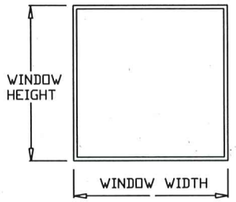
ARCHED PICTURE WINDOW



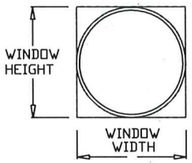
HEXAGON TYPICAL ELEVATION



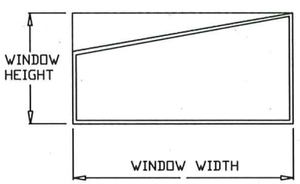
RECTANGULAR TYPICAL ELEVATION



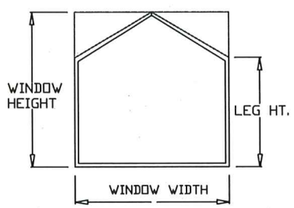
SQUARE PICTURE WINDOW ELEVATION



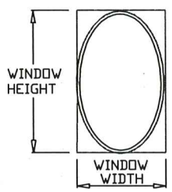
FULL ROUND TYPICAL ELEVATION



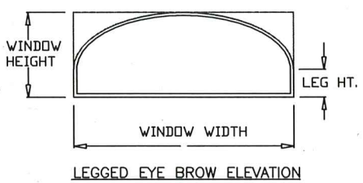
RECTANGULAR TYPICAL ELEVATION



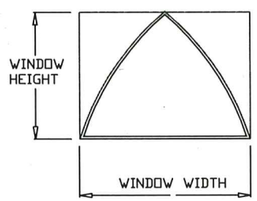
SQUARE PICTURE WINDOW ELEVATION



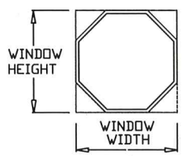
OVAL TYPICAL ELEVATION



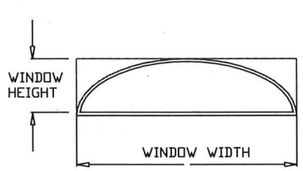
LEGGED EYE BROW ELEVATION



QUARTER–ROUND ELEVATION

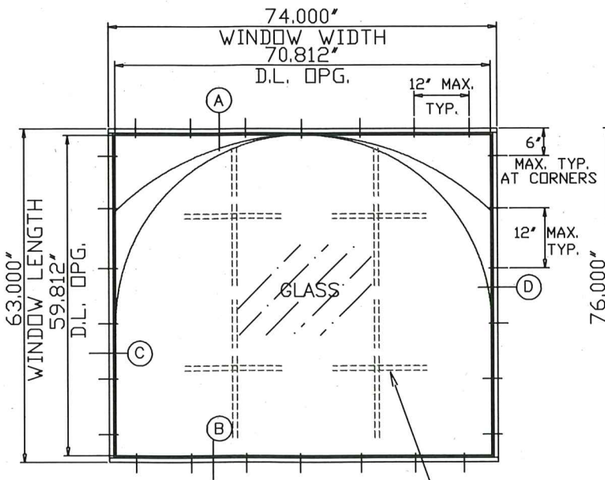


OCTAGON TYPICAL ELEVATION



"ELLIPTICAL" TYPICAL ELEVATION

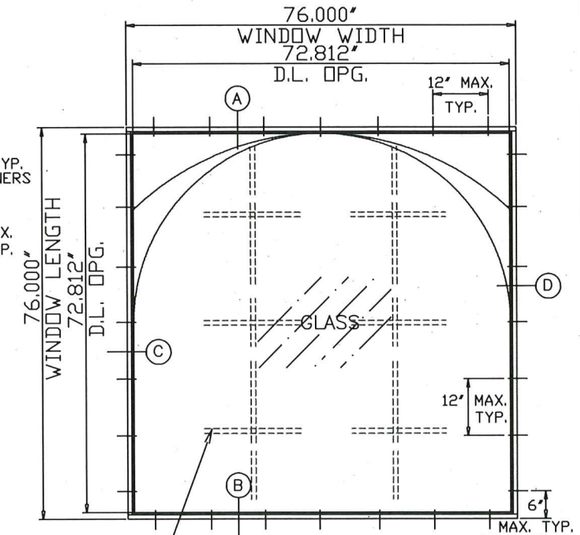
ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN, CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN A SQUARE OR RECTANGLE, AS SHOW IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. PROVIDED PERIMETER FASTENERS ARE AS DESCRIBED HEREIN FOR SIZE AND SPACING.



TYPICAL ELEVATION
TESTED UNIT

EXT. & INT. FALSE COLONIAL MUNTINS ARE APPLIED W/ W/ SILICONE AND ARE AVAILABLE AS OPTIONAL.

NOTE:
MAXIMUM GLASS AREA TESTED APPLIES TO GLASS TYPES: E, F, K AND L. – SEE DESIGN LOAD CAPACITY TABLES ON SHEET 4 FOR SIZE LIMITATIONS OF EACH GLASS TYPE.



TYPICAL ELEVATION
TESTED UNIT

NOTE:
MAXIMUM GLASS AREA TESTED APPLIES TO GLASS TYPES: J – SEE DESIGN LOAD CAPACITY TABLES ON SHEET 4.

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

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) 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, AND FOR USE WITH DOUBLE GLAZE LAMINATED INSULATED GLASS TYPES TABULATED HEREIN; (SEE SHEET #3 FOR GLASS TYPES AND SHEET #4 FOR MAX. DESIGN PRESSURES).

6.) WINDOWS WITH GLASS TYPES "B, C, F, OR G" 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. (SEE SHEET #2 FOR DETAIL & NOTES)

10.) APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE 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.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 24-0116.09
Expiration Date 08/22/2027
By
Miami Dade Product Control

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

7300 ALUMINUM PICTURE WINDOW - IMPACT FLANGE FRAME

NO.:	DESCRIPTION:	BY:	DATE:

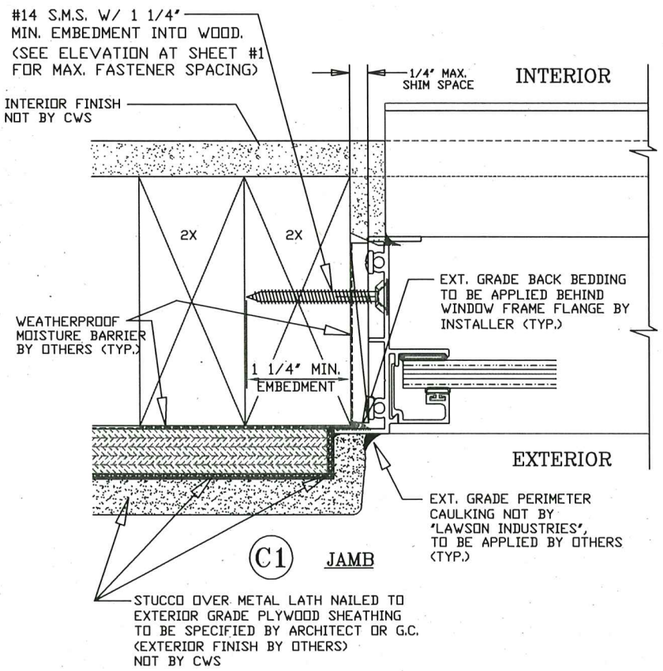
REVISIONS

THOMAS J. SOTOS LICENSE No. 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE DEC 18 2023

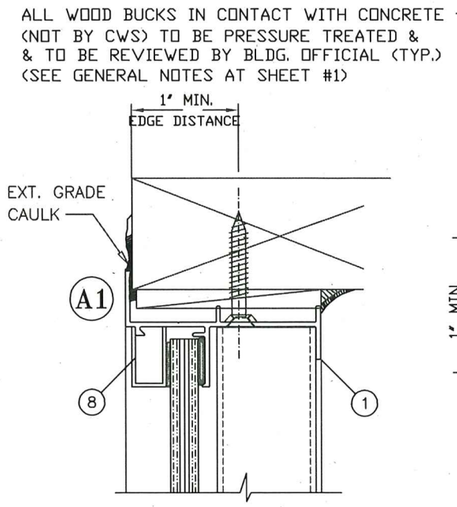
THOMAS J. SOTOS, P.E.
FL P.E. LIC. # 55225

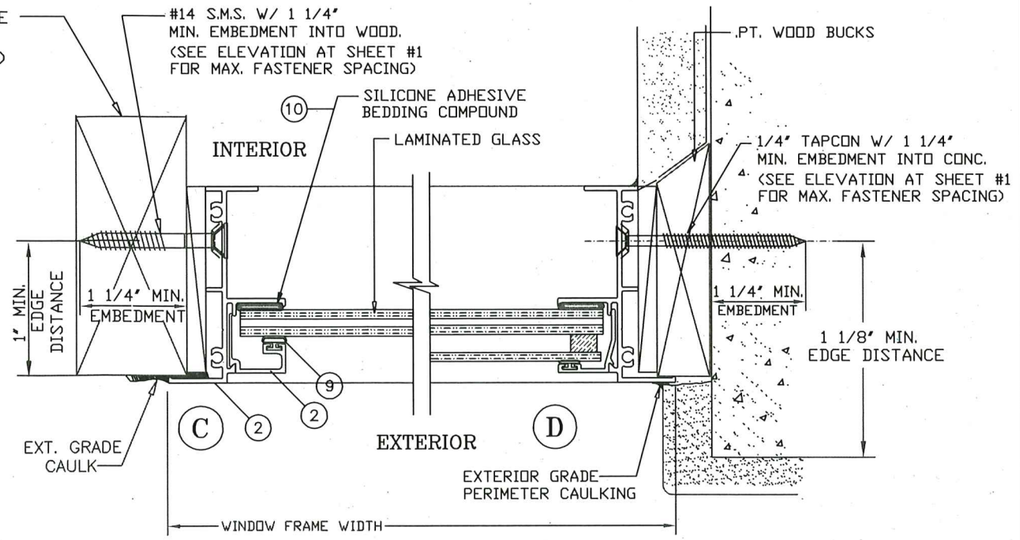
SHEET DESCRIPTION:
APPROVED ELEVATIONS, CONFIGURATIONS AND GENERAL NOTES

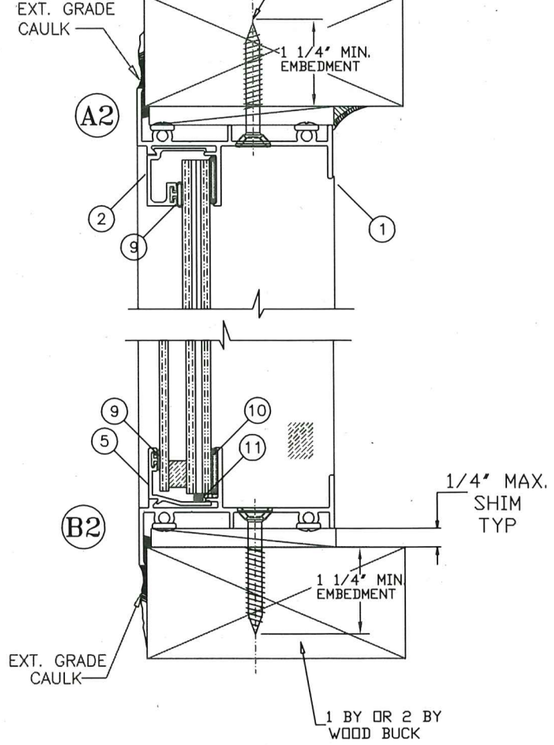
DRAWN BY:	DATE:
N. Erazo	12/18/2023
REV. BY:	DATE:
---	---
DWG #: CWS-1218	REV #:
SCALE: ---	SHEET 1 OF 5

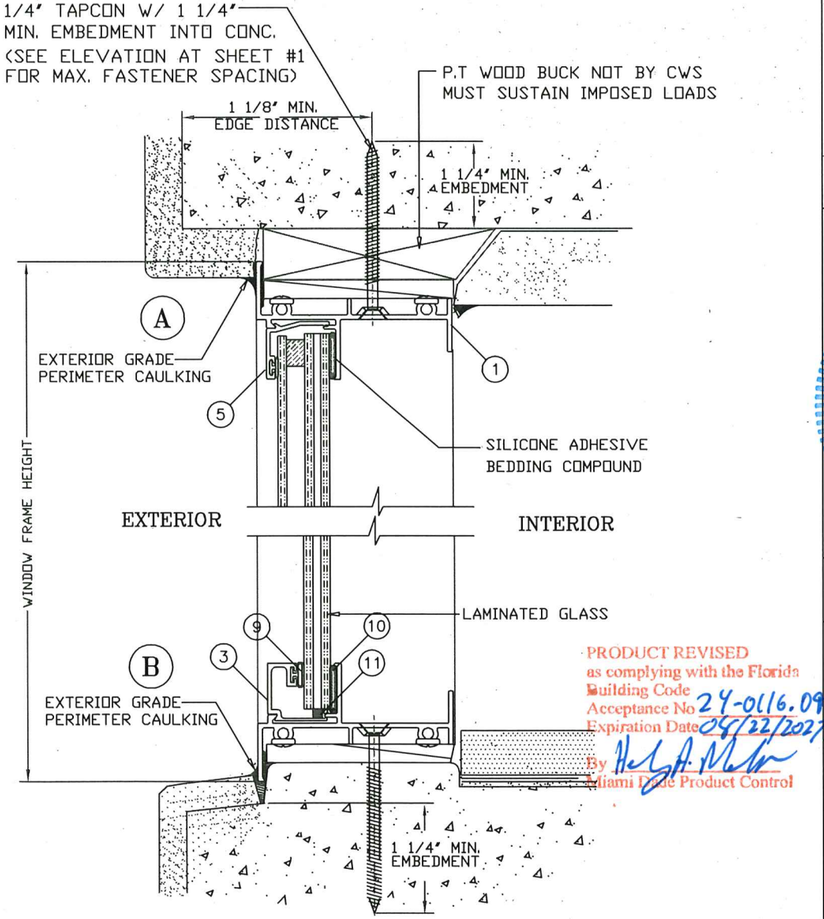


WOOD FRAME INSTALLATION DETAIL









WINDOW INSTALLATION NOTES:

1. THE WINDOW FRAME FLANGE TO BE BACK-BEDDED W/ AN EXT. GRADE CAULK THROUGHOUT THE ENTIRE PERIMETER OF FLANGE BY WINDOW INSTALLER (TYP.)
2. THE EXPOSED EXT. PERIMETER OF THE WINDOW FRAME TO BE CAULKED AND SEALED W/ AN APPROVED EXTERIOR GRADE CAULK BY OTHERS (TYP.)
3. WOOD BUCK SPECIFIC GRAVITY = 0.55 MIN.
4. CONCRETE COMPRESSIVE STRENGHT = 2Ksi MIN.

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

ANCHORS NOTE:

ANCHORS TO BE #14 SMS OR WD. SCREWS INTO WOOD, OR 1/4" ITW BUILDEX TAPCONS or ELCO ULTRACON CONC. FASTENERS INTO CONCRETE (2KSI MIN.), WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. AT 12" O.C. MAX.

* TAPCON YIELD STRENGTH: Fy=100Ksi
ULTIMATE STRENGTH: Fu=125Ksi

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 24-0116.09
Expiration Date 05/22/2027
By Miami Dade Product Control

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

7300 ALUMINUM PICTURE WINDOW - IMPACT FLANGE FRAME

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:

THOMAS J. SOTOS LICENSE NO. 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE DEC 18 2023

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

SHEET DESCRIPTION:
VERTICAL AND HORIZONTAL WINDOW CROSS SECTIONS, DETAILS AND NOTES

DRAWN BY:	DATE:
N. Erazo	12/18/2023
REV. BY:	DATE:
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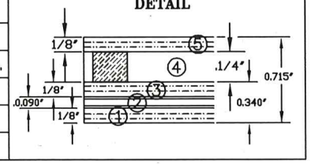
DWG #:	REV #:
CWS-1218	

SCALE:	SHEET
---	2 OF 5

LAMINATED INSULATED GLASS COMPOSITION TYPE B

ITEM	DESCRIPTION
1	1/8" ANN. GLASS
2	0.090" SAFLEX PVB by: Eastman Chemical Co.
3	1/8" ANNEALED GLASS
4	1/4" INSULATED AIR SPACE
5 (*)	1/8" ANNEALED OR TEMPERED GLASS

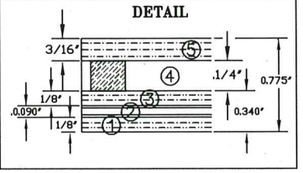
DETAIL



LAMINATED INSULATED GLASS COMPOSITION TYPE C

ITEM	DESCRIPTION
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 OR TEMPERED GLASS

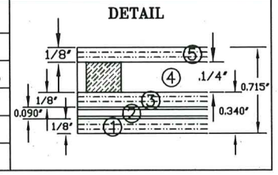
DETAIL



LAMINATED INSULATED GLASS COMPOSITION TYPE F

ITEM	DESCRIPTION
1	1/8" HEAT-STRENGHTENED GLASS
2	0.090" TROSIFOL PVB by: Kuraray America, Inc.
3	1/8" HEAT-STRENGHTENED GLASS
4	1/4" INSULATED AIR SPACE
5 (*)	1/8" ANNEALED OR TEMPERED GLASS

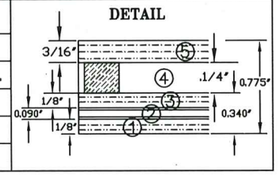
DETAIL



LAMINATED INSULATED GLASS COMPOSITION TYPE G

ITEM	DESCRIPTION
1	1/8" HEAT-STRENGHTENED GLASS
2	0.090" TROSIFOL PVB by: Kuraray America, Inc.
3	1/8" HEAT-STRENGHTENED GLASS
4	1/4" INSULATED AIR SPACE
5 (*)	3/16" ANNEALED OR TEMPERED GLASS

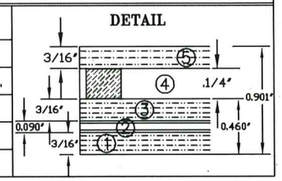
DETAIL



LAMINATED INSULATED GLASS COMPOSITION TYPE L

ITEM	DESCRIPTION
1	3/16" HEAT-STRENGHTENED GLASS
2	0.090" TROSIFOL PVB by: Kuraray America, Inc.
3	3/16" HEAT-STRENGHTENED GLASS
4	1/4" INSULATED AIR SPACE
5	3/16" TEMPERED GLASS

DETAIL



Notes:

1.) SEE SHEET 4 FOR DESIGN LOADS LOAD CAPACITY TABLES.

✳ 2.) WINDOWS WITH GLASS TYPES "B, C, F, OR G" 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).

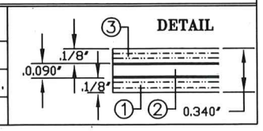
(12) **Insulated Spacer Types & Options**

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

5/16" LAMINATED GLASS COMPOSITION – TYPE A

ITEM	GLASS DESCRIPTION
1	1/8" ANNEALED GLASS
2	0.090" TROSIFOL PVB by: Kuraray America, Inc.
3	1/8" ANNEALED GLASS

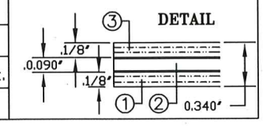
DETAIL



5/16" LAMINATED GLASS COMPOSITION – TYPE D

ITEM	GLASS DESCRIPTION
1	1/8" HEAT-STRENGHTENED GLASS
2	0.090" TROSIFOL PVB by: Kuraray America, Inc.
3	1/8" HEAT-STRENGHTENED GLASS

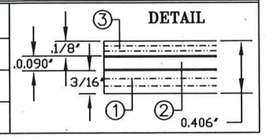
DETAIL



13/32" LAMINATED GLASS COMPOSITION – TYPE E

ITEM	GLASS DESCRIPTION
1	3/16" HEAT-STRENGHTENED GLASS
2	0.090" SAFLEX PVB by: Eastman Chemical Co.
3	1/8" HEAT-STRENGHTENED GLASS

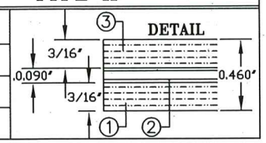
DETAIL



7/16" LAMINATED GLASS COMPOSITION – TYPE H

ITEM	GLASS DESCRIPTION
1	3/16" ANNEALED GLASS
2	0.090" SAFLEX PVB by: Eastman Chemical Co.
3	3/16" ANNEALED GLASS

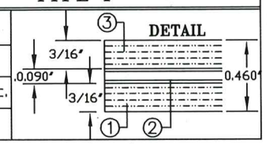
DETAIL



7/16" LAMINATED GLASS COMPOSITION – TYPE I

ITEM	GLASS DESCRIPTION
1	3/16" ANNEALED GLASS
2	0.090" TROSIFOL PVB by: Kuraray America, Inc.
3	3/16" ANNEALED GLASS

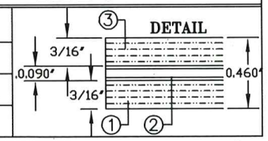
DETAIL



7/16" LAMINATED GLASS COMPOSITION – TYPE J

ITEM	GLASS DESCRIPTION
1	3/16" HEAT-STRENGHTENED GLASS
2	0.090" SENTRYGLASS by: Kuraray America, Inc.
3	3/16" HEAT-STRENGHTENED GLASS

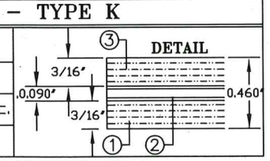
DETAIL

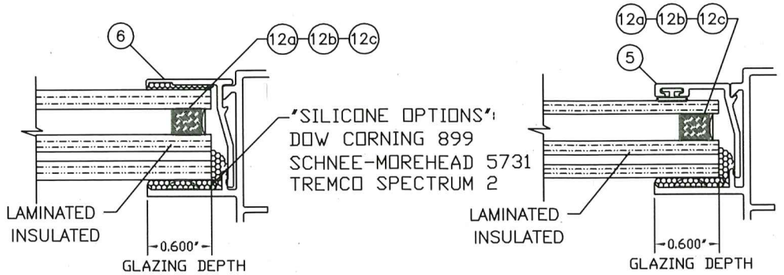


7/16" LAMINATED GLASS COMPOSITION – TYPE K

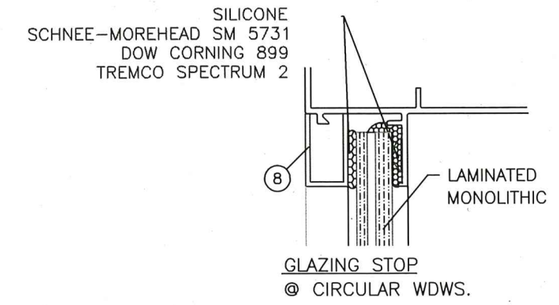
ITEM	GLASS DESCRIPTION
1	3/16" HEAT-STRENGHTENED GLASS
2	0.090" TROSIFOL PVB by: Kuraray America, Inc.
3	3/16" HEAT-STRENGHTENED GLASS

DETAIL





LAMINATED/INSULATED GLASS TYPICAL GLAZING DETAIL



LAMINATED/MONOLITHIC GLASS TYPICAL GLAZING DETAIL

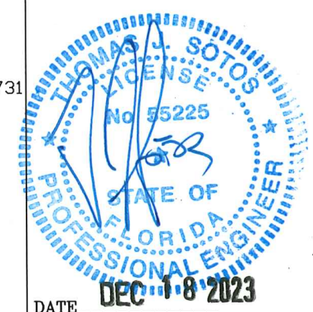
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 24-0116.09
Expiration Date 04/22/2027
By Miami Dade Product Control

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

7300 ALUMINUM PICTURE WINDOW - IMPACT FLANGE FRAME

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:



DATE DEC 18 2023

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

SHEET DESCRIPTION:
LAMINATED GLASS TYPES, GLAZING DETAILS AND NOTES

DRAWN BY:	DATE:
N. Erazo	12/18/2023
REV. BY:	DATE:
---	---
DWG #: CWS-1218	REV #:
SCALE: ---	SHEET 3 OF 5

FIXED IMPACT WINDOW MODULAR SIZES CHART - DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.		GLASS TYPES											
WIDTH	LENGTH	A	B	C	D	E	F	G	H	I	J	K	L
(in.)	(in.)	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP
24"	36"	68	68	68	68	65	68	68	68	68	78	65	68
30"		68	68	68	68	65	68	68	68	68	78	65	68
36"		68	68	68	68	65	68	68	68	68	78	65	68
42"		68	68	68	68	65	68	68	68	68	78	65	68
48"		68	68	68	68	65	68	68	68	68	78	65	68
54"		68	68	68	68	65	68	68	68	68	78	65	68
60"		68	68	68	68	65	68	68	68	68	78	65	68
24"	48"	68	68	68	68	65	68	68	68	68	78	65	68
30"		68	68	68	68	65	68	68	68	68	78	65	68
36"		68	68	68	68	65	68	68	68	68	78	65	68
42"		68	68	68	68	65	68	68	64.7	58.3	78	65	68
48"		68	68	68	68	65	68	68	56.6	51	78	65	68
54"		x	x	x	68	65	68	68	56.6	51	78	65	68
60"		x	x	x	68	65	68	68	x	x	78	65	68
24"	60"	68	68	68	68	65	68	68	68	68	78	65	68
30"		68	68	68	68	65	68	68	68	68	78	65	68
36"		68	68	68	68	65	68	68	68	68	78	65	68
42"		x	x	x	68	65	68	68	64.7	58.3	78	65	68
48"		x	x	x	68	65	68	68	x	x	78	65	68
54"		x	x	x	x	65	x	x	x	x	78	65	68
60"		x	x	x	x	65	x	x	x	x	78	65	68
24"	72"	68	68	68	68	65	68	68	68	68	78	65	68
30"		68	68	68	68	65	68	68	68	68	78	65	68
36"		x	x	x	68	65	68	68	65.5	68	78	65	68
42"		x	x	x	x	65	68	x	x	x	78	65	68
48"		x	x	x	x	65	x	x	x	x	78	65	68
54"		x	x	x	x	65	x	x	x	x	74.7	65	68
60"		x	x	x	x	65	x	x	x	x	72	65	68
24"	74"	68	68	68	68	65	68	68	68	68	78	65	68
30"		68	68	68	68	65	68	68	68	68	78	65	68
36"		x	x	x	68	65	68	68	64.9	68	78	65	68
42"		x	x	x	x	65	x	x	x	x	78	65	68
48"		x	x	x	x	65	x	x	x	x	75.6	65	68
54"		x	x	x	x	65	x	x	x	x	75	65	68
60"		x	x	x	x	65	x	x	x	x	75	65	68
66"		x	x	x	x	x	x	x	x	x	75	x	x
72"		x	x	x	x	x	x	x	x	x	75	x	x
74"		x	x	x	x	x	x	x	x	x	75	x	x
24"	84"	68	68	68	68	65	68	68	68	68	78	65	68
30"		x	x	x	68	65	68	68	68	68	78	65	68
36"		x	x	x	x	65	68	x	x	x	78	65	68
42"		x	x	x	x	65	x	x	x	x	78	65	68
48"		x	x	x	x	65	x	x	x	x	75	65	68
54"		x	x	x	x	x	x	x	x	x	75	65	x
60"		x	x	x	x	x	x	x	x	x	75	x	x
66"		x	x	x	x	x	x	x	x	x	75	x	x
24"	96"	68	68	68	68	65	68	68	68	68	78	65	68
30"		x	x	x	68	65	68	68	x	x	78	65	68
36"		x	x	x	x	65	x	x	x	x	78	65	68
42"		x	x	x	x	65	x	x	x	x	76.8	65	68
48"		x	x	x	x	x	x	x	x	x	75	65	x
54"		x	x	x	x	x	x	x	x	x	75	x	x
24"	108"	x	x	x	68	65	68	68	68	68	78	65	68
30"		x	x	x	x	65	x	x	x	x	78	65	68
36"		x	x	x	x	65	x	x	x	x	75	65	68
42"		x	x	x	x	x	x	x	x	x	75	65	x
48"		x	x	x	x	x	x	x	x	x	75	x	x
24"	120"	x	x	x	68	65	68	68	x	x	78	65	68
30"		x	x	x	x	65	x	x	x	x	78	65	68
36"		x	x	x	x	65	x	x	x	x	75	65	68
42"		x	x	x	x	65	x	x	x	x	75	x	x
46"		x	x	x	x	x	x	x	x	x	75	x	x

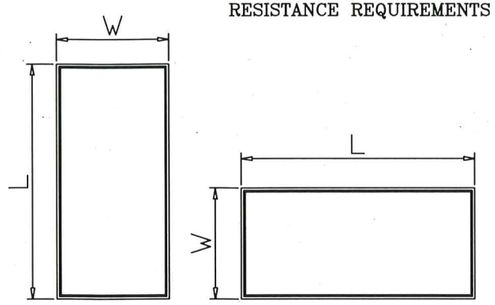
FIXED IMPACT WINDOW COMMODITY SIZES CHART - DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.		GLASS TYPES											
WIDTH	LENGTH	A	B	C	D	E	F	G	H	I	J	K	L
(in.)	(in.)	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP	+/- DP
19-1/8"	26"	68	68	68	68	65	68	68	68	68	78	65	68
26-1/2"		68	68	68	68	65	68	68	68	68	78	65	68
37"		68	68	68	68	65	68	68	68	68	78	65	68
48"		68	68	68	68	65	68	68	68	68	78	65	68
53-1/8"		68	68	68	68	65	68	68	68	68	78	65	68
19-1/8"	38-3/8"	68	68	68	68	65	68	68	68	68	78	65	68
26-1/2"		68	68	68	68	65	68	68	68	68	78	65	68
37"		68	68	68	68	65	68	68	66.2	66.2	78	65	68
48"		68	68	68	68	65	68	68	63.8	63.8	78	65	68
53-1/8"		68	68	68	68	65	68	68	63.8	63.8	78	65	68
19-1/8"	50-5/8"	68	68	68	68	65	68	68	68	68	78	65	68
26-1/2"		68	68	68	68	65	68	68	68	68	78	65	68
37"		68	68	68	68	65	68	68	66.2	66.2	78	65	68
48"		x	x	x	68	65	68	68	x	51	78	65	68
53-1/8"		x	x	x	68	65	68	68	x	x	78	65	68
19-1/8"	58"	68	68	68	68	65	68	68	68	68	78	65	68
26-1/2"		68	68	68	68	65	68	68	68	68	78	65	68
37"		68	68	68	68	65	68	68	x	66.2	78	65	68
48"		x	x	x	68	65	68	68	x	x	78	65	68
53-1/8"		x	x	x	x	65	x	x	x	x	78	65	68
19-1/8"	63"	68	68	68	68	65	68	68	68	68	78	65	68
26-1/2"		68	68	68	68	65	68	68	68	68	78	65	68
37"		x	x	x	68	65	68	68	x	66.2	78	65	68
48"		x	x	x	x	65	68	x	x	x	78	65	68
53-1/8"		x	x	x	x	65	x	x	x	x	78	65	68
19-1/8"	74"	68	68	68	68	65	68	68	68	68	78	65	68
26-1/2"		68	68	68	68	65	68	68	x	68	78	65	68
37"		x	x	x	68	65	68	68	x	x	78	65	68
48"		x	x	x	x	65	x	x	x	x	75.6	65	68
53-1/8"		x	x	x	x	65	x	x	x	x	75	65	68
63"		x	x	x	x	65	x	x	x	x	75	65	x
74-1/4"		x	x	x	x	65	x	x	x	x	75	x	x
19-1/8"	74-1/4"	68	68	68	68	65	68	68	68	68	78	65	68
26-1/2"		68	68	68	68	65	68	68	x	68	78	65	68
37"		x	x	x	68	65	68	68	x	x	78	65	68
48"		x	x	x	x	65	x	x	x	x	75.2	65	68
53-1/8"		x	x	x	x	65	x	x	x	x	75	65	68
74"		x	x	x	x	x	x	x	x	x	75	x	x
76"	76"	x	x	x	x	x	x	x	x	x	75	x	x

Notes (*):

1.) SEE SHEET 3 FOR GLAZING TYPES, DETAILS & SILICONE OPTIONS.

✳ 2.) WINDOWS WITH GLASS TYPES "B, C, F, OR G" 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).



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

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 24-0116.09
Expiration Date 04/27/2027
By
Miami Dade Product Control

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

7300 ALUMINUM PICTURE WINDOW - IMPACT FLANGE FRAME

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:

THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE DEC 18 2023

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

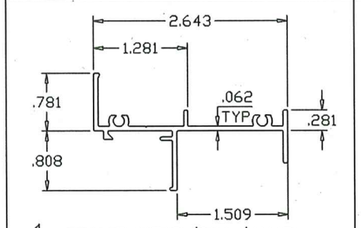
SHEET DESCRIPTION:
DESIGN LOAD CHARTS AND NOTES

DRAWN BY:	DATE:
N. Erazo	12/18/2023
REV. BY:	DATE:
---	---
DWG #:	REV #:
CWS-1218	
SCALE:	SHEET
---	4 OF 5

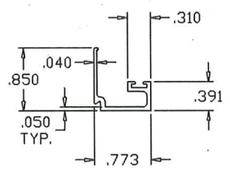
BILL OF MATERIALS

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	REMARKS
1	L-4201	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-7708 TRIMMED	4	GLAZING BEAD (7/16" GLASS)	6063-T6	-
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
8	L-4204	AS REQD.	GLAZING BEAD AT CIRCULAR WDWS.	6063-T5	-
9	VWS-004	AS REQD.	GLAZING GASKET	SOFT PVC	-
10	*	AS REQD.	GLAZING SILICONE	*	-
11	PL 75.6020	AS REQD.	GLAZING SETTING BLOCK	SOFT PVC	1/8" X 1/8" X 2"
12 a	812-25H-357	AS REQD.	"TruSeal" Swiggle Spacer	BLACK	1/4" AIR SPACE
12 b	*	AS REQD.	"Duraseal" Dura Seal Spacer	BLACK	1/4" AIR SPACE
12 c	*	AS REQD.	"QUANEX" SuperSpacer w/ Isomelt M	BLACK	1/4" AIR SPACE

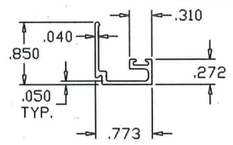
WINDOW FRAME EXTRUSION DETAILS



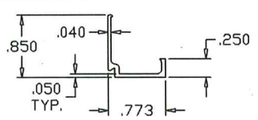
1 FRAME HEAD/SILL/JAMB



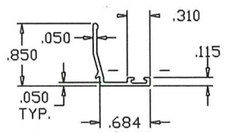
2 GLAZING STOP (5/16" GLASS)



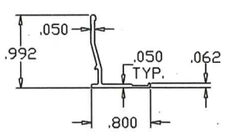
3 GLAZING STOP (3/8" & 13/32" GLASS)



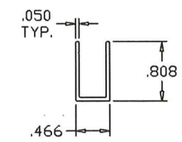
4 GLAZING STOP (7/16" GLASS)



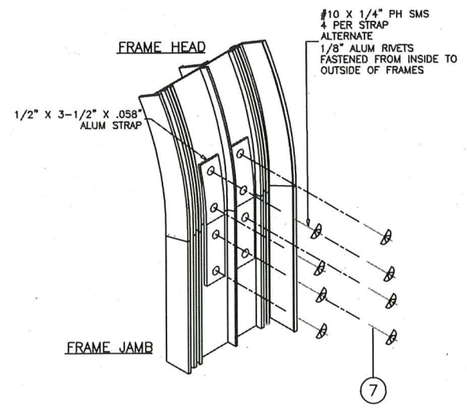
5 INSULATED GLAZING STOP W/ 5/16" LAMINATED GLASS



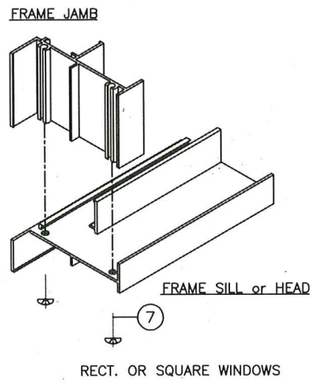
6 INSULATED GLAZING STOP W/ 7/16" LAMINATED GLASS



8 GLAZING STOP (CIRCULAR WDW.)



2 FRAME RADIUS JOINT



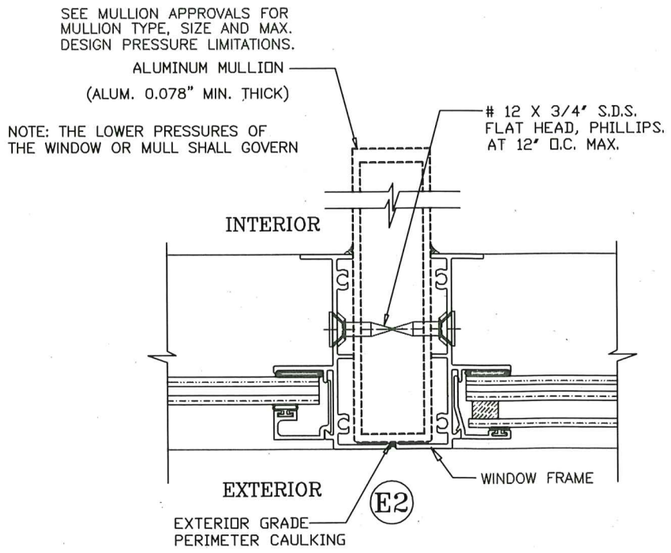
1 FRAME END CORNER

FRAME CORNER & JOINT DETAILS

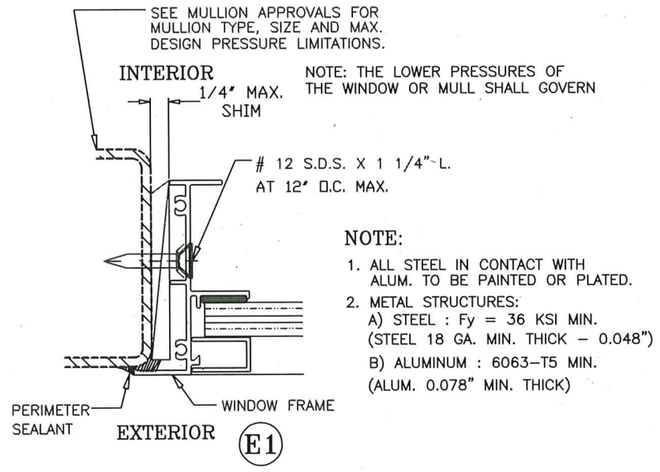
SEALANT:

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

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 24-0116.09
Expiration Date 04/22/2027
By Miami-Dade Product Control



FRAME MULLING DETAIL



NOTE:

1. ALL STEEL IN CONTACT WITH ALUM. TO BE PAINTED OR PLATED.
2. METAL STRUCTURES:
   A) STEEL : Fy = 36 KSI MIN. (STEEL 18 GA. MIN. THICK - 0.048")
   B) ALUMINUM : 6063-T5 MIN. (ALUM. 0.078" MIN. THICK)

METAL STRUCTURE ATTACHMENT DETAIL

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

7300 ALUMINUM PICTURE WINDOW - IMPACT FLANGE FRAME

NO.:	DESCRIPTION:	BY:	DATE:

REVISIONS

THOMAS J. SOTOS LICENSE No. 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE DEC 18 2023

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

SHEET DESCRIPTION:
BILL OF MATERIALS, EXTRUSION TYPES, MULLING-ATTACHMENT DETAILS AND CORNER-JOINT ASSENBLY DETAILS

DRAWN BY:	DATE:
N. Erazo	12/18/2023
REV. BY:	DATE:
---	---
DWG #: CWS-1218	REV #:
SCALE: ---	SHEET 5 OF 5