MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

CGI Windows and Doors, Inc.
3780 W. 103rd Street
Hialeah, FL 33018

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 "238" Aluminum Project Out Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **AW238 NOA-1** Rev **B**, titled "Series–238 Aluminum Awning Windows", sheets 1 through 9 0f 9, dated 05/22/20 and last revised on 08/30/23 signed and sealed by Lynn Miller, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and 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, model/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 & renews NOA No. 20-0528.03** 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 **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

CGI Windows and Doors, 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's No. 96-0717.04 and 99-0329.02)

2. Drawing No. **W99-04**, titled "Series-238 Alum. Project Out Window", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 7, dated 01/21/99, with revision I dated 04/10/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA–3056 WA**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.

2. 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 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA–3056 WB**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.

3. 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 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA–3056 WC**, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.

4. 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, TAS 202-94
along with marked-up drawings and installation diagram of aluminum casement, project-out and fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Reports No. **HTL-0080-0301-07** and **HTL-0080-0905-07**, dated 08/08/08, all signed and sealed by Vinu J. Abraham, P.E.***(Submitted under NOA No. 08-1010.03).***

5. 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 aluminum project-out window, prepared by Hurricane Engineering & Testing, Inc. Reports No. **HETI-08-2143**, **HETI-08-2144**, **HETI-07-4298** and **HETI-07-4287**, dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P.E. ***(NOA No. 08-1010.03).***

Ishaq I. Chanda

Ishaq I, Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0906.01
Expiration Date: October 31, 2028
Approval Date: September 28, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

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 an aluminum project-out window, prepared by Hurricane Engineering & Testing, Inc. Reports No. **HETI-08-2143**, **HETI-08-2144**, **HETI-07-4298** and **HETI-07-4287**, dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P.E. ***(Submitted under NOA No. 08-1010.03)***

7. Test reports on: 1) Air Infiltration Test, per SFBC, PA 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, TAS 202-94
along with marked-up drawings and installation diagram of aluminum casement, project-out and fixed windows, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-1055** and **FTL-1019**, dated 10/18/94, signed and sealed by Yamil Kuri, P.E. ***(Submitted under NOA No. 96-0717.04)***

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 an aluminum casement window, prepared by Hurricane Test Laboratory, Inc., Test Reports No. **HTL-0080-0303-96** and **HTL-0080-1107-98**, dated 09/08/96 and 12/23/98 respectively, all signed and sealed by Timothy S. Marshall, P.E. ***(Submitted under NOA's No. 96-0717.04 and 99-0329.02)***

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 09/03/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. ***(Submitted under NOA No. 14-0915.08)***

2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**", expiring on 07/04/18.

2. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 06/19/14, expiring on 12/11/18.

3. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their **"Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.

4. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 06/19/14, expiring on 05/21/16.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0906.02
Expiration Date: October 31, 2028
Approval Date: September 28, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, and of no financial interest, dated 09/03/14, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. ***(Submitted under NOA No. 14-0915.08)***
2. Laboratory compliance letters for Test Reports No. **CTLA–3056 WA**, dated 03/03/15, **CTLA–3056 WB**, dated 03/03/15 and **CTLA–3056 WC**, dated 04/16/15, issued by Certified Test Laboratories, Inc., dated 08/08/08, all signed and sealed by Ramesh C. Patel, P.E.
3. Laboratory compliance letters for Test Reports No. **HTL-0080-0301-07** and **HTL-0080-0905-07**, issued by Hurricane Test Laboratory, Inc., dated 08/08/08, all signed and sealed by Vinu J. Abraham, P.E. ***(Submitted under NOA No.08-1010.03)***
4. Test Proposal for the qualification of ***Butacite®*** PVB glass interlayer by Kuraray America, Inc., as well as ***Duraseal®*** and ***Super Spacer® Standard*** warm-edge flexible insulating glass spacers, dated December 16, 2014, issued by RER, Product Control Section, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.

G. OTHERS

1. Notice of Acceptance No. **14-0915.08**, issued to CGI Windows & Doors for their Series "238" Aluminum Project-Out Window - L.M.I. approved on 02/05/15 and expiring on 10/31/18.

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA(s)

A. DRAWINGS

1. Drawing No. **W99-04**, titled "Series-238 Alum. Project Out Window", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 7, dated 01/21/99, with revision **K** dated 01/05/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated January 8, 2018, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. **Glazing complies with ASTM E1300-09/12ae.**

D. QUALITY ASSURANCE

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

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0906.01
Expiration Date: October 31, 2028
Approval Date: September 28, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA(s) continue:

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.
2. Notice of Acceptance No. **17-0712.03** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 09/07/17, expiring on 12/11/18.
3. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Interlayers**", expiring on 07/08/19.
4. Notice of Acceptance No. **17-0712.05** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance, of complying with **FBC 5th Edition (2014)**, with **FBC 6th Edition (2017)** and of no financial interest, dated August 30, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

G. OTHERS

1. Notice of Acceptance No. **15-0512.21**, issued to CGI Windows and Doors, Inc. for their Series "238" Aluminum Project Out Window - L.M.I. approved on 09/17/15 and expiring on 10/31/18.

3. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **AW238 NOA-1** Rev **A** (former **W99-04** Rev **K**), titled "Series–238 Aluminum Awning Windows", sheets 1 through 9 0f 9, dated 05/22/20, signed and sealed by Anthony Lynn Miller, P.E.

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) Large Missile Impact Test per FBC, TAS 201–94
5) Cyclic Wind Pressure Loading per FBC, TAS 203–94

along with marked-up drawings and installation diagram of all CGI Windows and Doors, Inc. and PGT Industries, Inc., representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, per Proposal #**19-1155TP**, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0906.01
Expiration Date: October 31, 2028
Approval Date: September 28, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continue):

CGI Windows and Doors Inc. test specimens:

FTL-20-2108.1, CGI SH360 Aluminum Single Hung Window (unit 1 in proposal) **FTL-20-2108.2,** CGI CA238 Alum. Outswing Casement Window (unit 2 in proposal) **FTL-20-2108.3,** CGI SGD560 Aluminum Sliding Glass Door (unit 3 in proposal) **FTL-20-2108.4**, CGI PW410 Aluminum Fixed Window (unit 4 in proposal) and **FTL-20-2108.5**, CGI SH360 Aluminum Single Hung Window (unit 5 in proposal)all dated 08/24/20 and signed and sealed by Idalmis Ortega, P.E.

PGT Industries, Inc. test specimens:

FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14
FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) **FTL-20-2107.2,** PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) **FTL-20-2107.3,** PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and **FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) all dated 07/13/20 and signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 2020, 7th Edition**, prepared by Mfr., dtd 05/22/20, signed and sealed by A. Lynn Miller, P. E.
2. Glazing complies with ASTM E1300–04, -09, -12 and-16.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "Kuraray Trofosil Ultra clear and color PVB Interlayer (Former Kuraray **Butacite ® PVB interlayer**)", expiring on 07/08/24.
3. Notice of Acceptance No. **18–0301.06** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core"**, expiring on 12/11/23.
4. Notice of Acceptance No. **17-0712.05** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (**7th** Edition), issued by manufacturer, dated 07/14/20, signed and sealed by Lynn Miller, P. E.
2. Notification of Successor Engineer per the Florida Administrative Code Section 61G15-27.001, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated 06/12/20, signed and sealed by A. Lynn Miller, P.E.

G. OTHER

1. This NOA **revises 17-0918.06** and updates to FBC 2020**,** expiring 10/31/23.
2. RER Test proposals #**19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0906.01
Expiration Date: October 31, 2028
Approval Date: September 28, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **AW238 NOA-1** Rev **B**, titled "Series–238 Aluminum Awning Windows", sheets 1 through 9 0f 9, dated 05/22/20 and last revised on 08/30/23 signed and sealed by Lynn Miller, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**", expiring on 07/04/28.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "Kuraray Trofosil Ultra clear and color PVB Interlayer (Former Kuraray **Butacite ® PVB interlayer**)", expiring on 07/08/24.
3. Notice of Acceptance No. **18–0301.06** issued to Eastman Chemical Company (MA) (Former Solutia, Inc.) for the "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers w/ PET Core"**, expiring on 12/11/23.
4. Notice of Acceptance No. **23-0713.18** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance to FBC 2023 (**8th** Edition), issued by manufacturer, dated 08/30/23, signed and sealed by Lynn Miller, P. E.

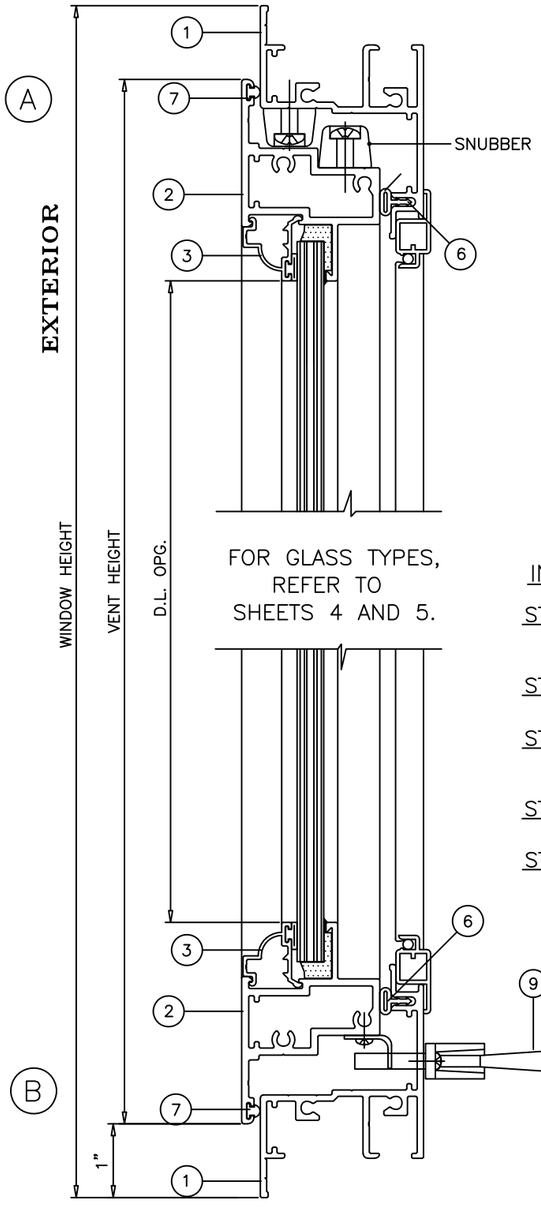
G. OTHER

1. This NOA **revises & renews NOA No. 20-0528.03** and updates to FBC 2023**,** expiring 10/31/28.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0906.01
Expiration Date: October 31, 2028
Approval Date: September 28, 2023

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.



FOR MULLION/ MULTIPLE UNITS, REFER TO SEPARATE CGI MULLION NOA.

GENERAL WINDOW SECTIONS
FLANGE FRAME

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020(7TH EDITION)/2023(8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON–METALLIC AND NON–COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

FRAME FLANGES MAY BE TRIMMED IN–FIELD AS NEEDED. THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION.

INSTRUCTIONS: USE CHARTS AS FOLLOWS.

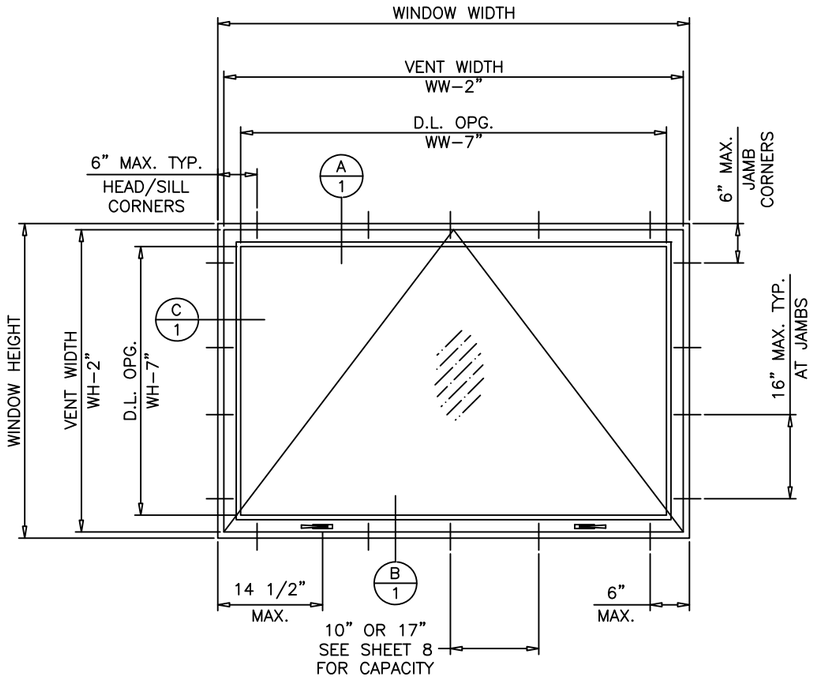
STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 SEE TABLES ON SHEETS 4 AND 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE/TYPE.

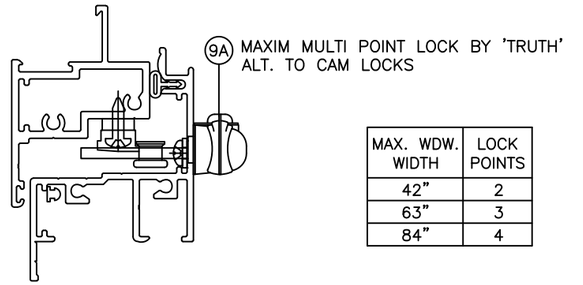
STEP 3 USING TABLES ON SHEETS 8&9 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 4 IF ALUMINUM BUCK SYSTEM IS USED USE TABLE ON SHEET 10 TO DETERMINE CAPACITY.

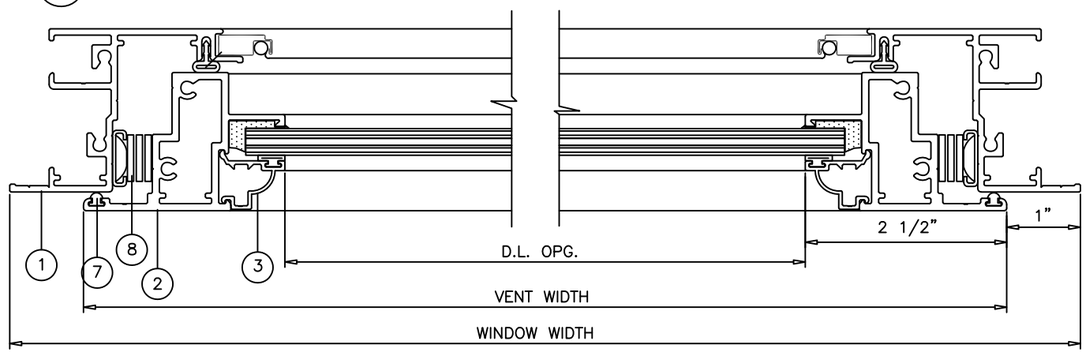
STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.



TYPICAL ELEVATION
(FLANGE FRAME)



MAX. WDW. WIDTH	LOCK POINTS
42"	2
63"	3
84"	4



EXTERIOR

PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 23–0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: REVISED FOR 2023 FBC, TRIM FLANGES/FIN NOTE LMY - 8/29/23

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

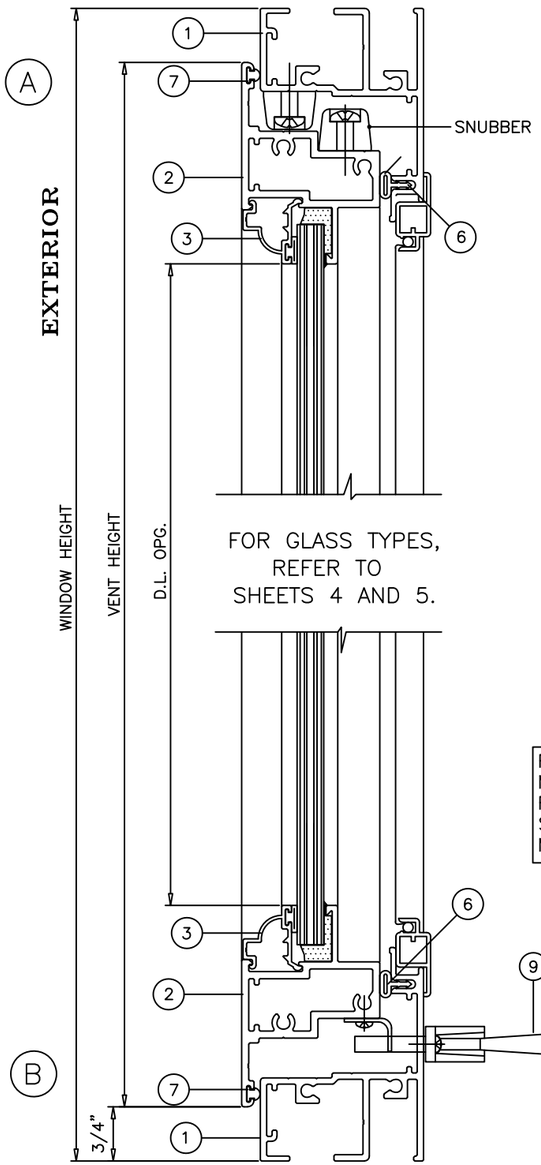
Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Series	Desc.	Scale	Sheet	DWG No.	Rev.
AW238	GEN. NOTES, ELEV. & FL. X-SECTIONS	NTS	1 OF 10	AW238NOA-1	B

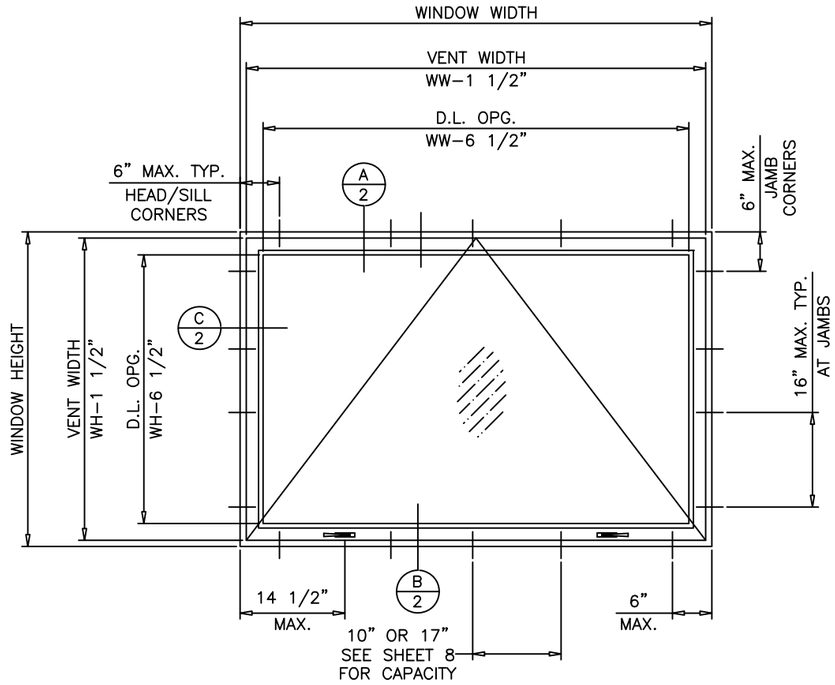
Title: SERIES 238 AWNING WINDOW - LMI
Drawn By: J ROSOWSKI
Date: 05/15/20

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/30/23
A. LYNN MILLER, P.E.
P.E.# 58705

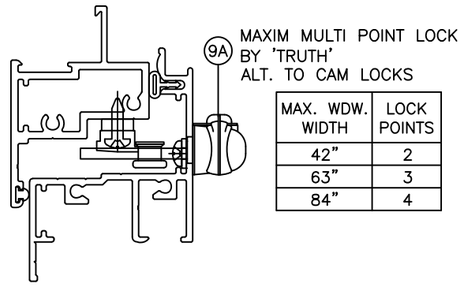
THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.



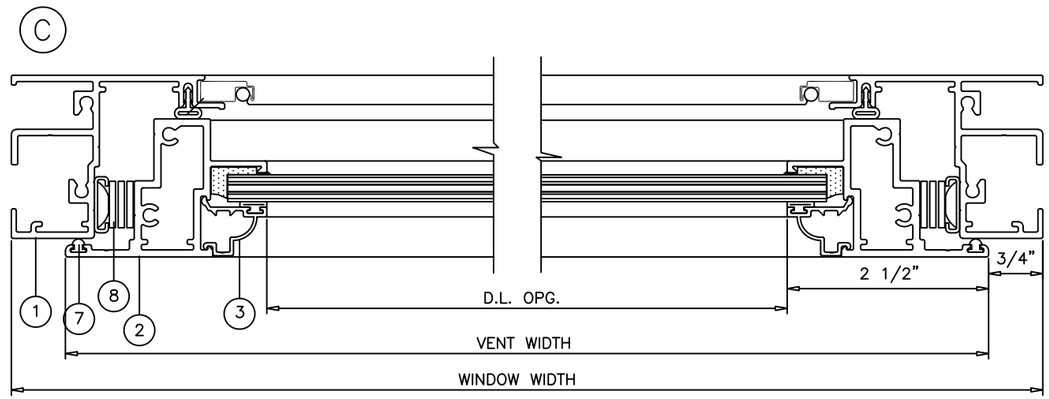
GENERAL WINDOW SECTIONS
EQUAL LEG FRAME



TYPICAL ELEVATION
(EQUAL LEG FRAME)



MAX. WDW. WIDTH	LOCK POINTS
42"	2
63"	3
84"	4



EXTERIOR

PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 23–0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: NO CHANGES THIS SHEET - LMY - 8/29/23

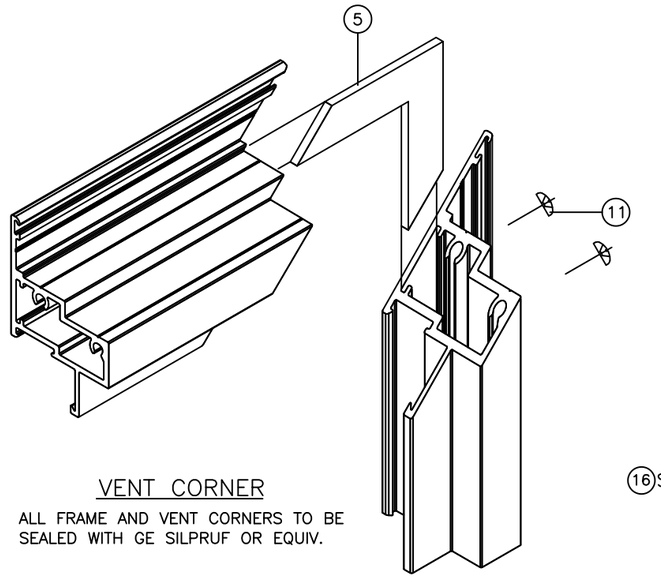
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title	Desc.	Series	Scale	Sheet
SERIES 238 AWNING WINDOW - LMI	ELEV. & EL. X-SECTIONS	AW238	NTS	2 OF 10

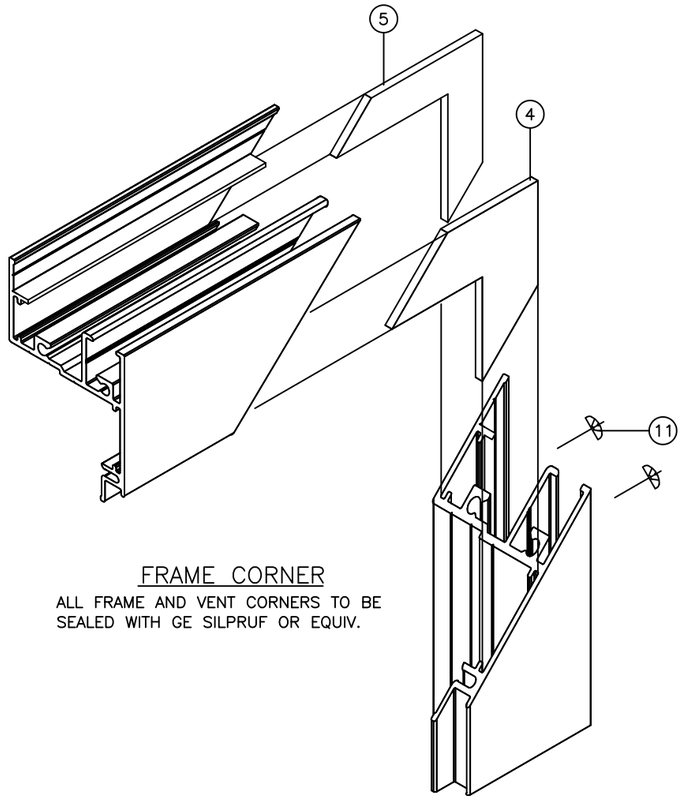
Date	Drawn By	DWG No.	Rev.
05/15/20	J ROSOWSKI	AW238NOA-1	B

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/30/23
A. LYNN MILLER, P.E.
P.E.# 58705



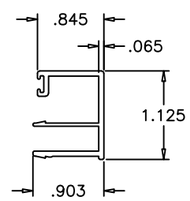
VENT CORNER

ALL FRAME AND VENT CORNERS TO BE SEALED WITH GE SILPRUF OR EQUIV.

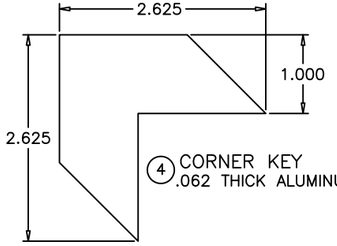


FRAME CORNER

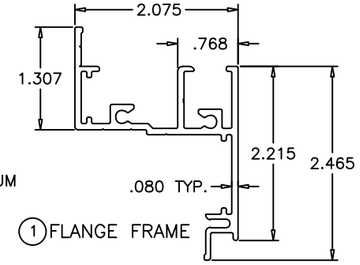
ALL FRAME AND VENT CORNERS TO BE SEALED WITH GE SILPRUF OR EQUIV.



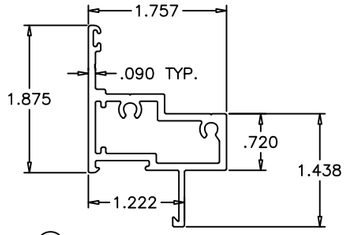
(15) OPT. ALUM BUCK COVER



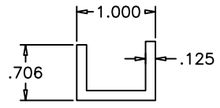
(4) CORNER KEY .062 THICK ALUMINUM



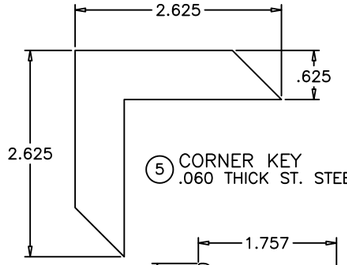
(1) FLANGE FRAME



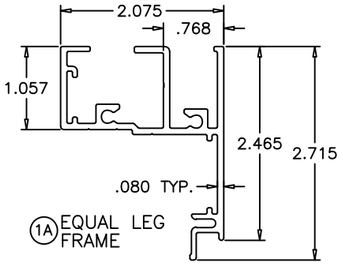
(2) VENT (5/16" LAM. GLASS)



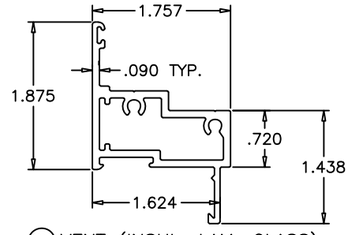
(16) SHEAR CLIP CHANNEL



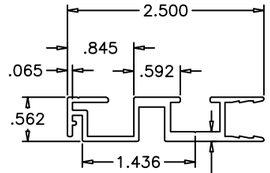
(5) CORNER KEY .060 THICK ST. STEEL



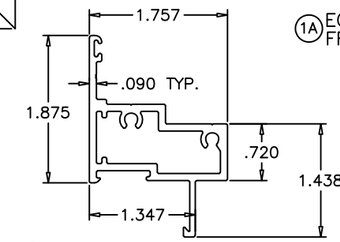
(1A) EQUAL LEG FRAME



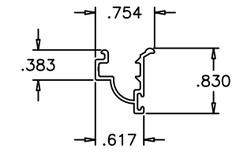
(2B) VENT (INSUL. LAM. GLASS)



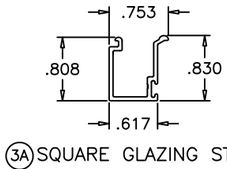
(14) ALUMINUM BUCK



(2C) VENT (7/16" LAM. GLASS)



(3) OGEE GLAZING STOP



(3A) SQUARE GLAZING STOP

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	CGI–373	4	FLANGE FRAME	6063–T6	INDALEX OR EQUIV.
1A	CGI–397	4	EQUAL LEG FRAME	6063–T6	INDALEX OR EQUIV.
2	CGI–378	4	VENT (5/16" LAM. GLASS)	6063–T6	INDALEX OR EQUIV.
2B	CGI–381	4	VENT (INSUL. LAM. GLASS)	6063–T6	INDALEX OR EQUIV.
2C	CGI–385	4	VENT (7/16" LAM. GLASS)	6063–T6	INDALEX OR EQUIV.
3	CGI–375	4	OGEE GLAZING BEAD	6063–T5	INDALEX OR EQUIV.
3A	CGI–396	4	SQUARE GLAZING BEAD	6063–T5	INDALEX OR EQUIV.
4	–	4	.060 THICK CORNER KEY	ALUMINUM	–
5	–	8	.060 THICK CORNER KEY	ST. STEEL	–
6	AP–425	AS REQD.	FRAME WEATHERSTRIPPING	–	SCHLEGEL APTUS
7	Q200 X190	AS REQD.	VENT WEATHERSTRIPPING	–	SCHLEGEL Q–LON
8	35–10–00–101	2/ VENT	4 BAR HINGE, AT JAMBS	STEEL	TRUTH, ATTACHED W/ (6) #8 X 3/8" SS SMS
9	24–13–00–202	2/ VENT	FACE MOUNT LOCK	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SS SMS
9A	–	2/ VENT	MULTI POINT LOCK	–	–
10	–	2/ VENT	.110 THICK LOCK KEEPER, AT FRAME JAMB FACING LOCK	STEEL	CGI, ATTACHED W/ (2) #10 X 3/8" SS SMS
11	–	2/ CORNER	FRAME AND VENT ASSEMBLY SCREWS	–	#10 X 1–1/4" SS SMS
12	–	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
14	–	–	ALUMINUM BUCK	6063–T6	INDALEX OR EQUIV.
15	–	–	OPTIONAL ALUMINUM BUCK COVER	6063–T6	INDALEX OR EQUIV.

PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 23–0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: NO CHANGES THIS SHEET - LMY - 8/29/23

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480–1600
REGISTRATION #29296

Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593–6590

Rev.	Drawn By	Date
B	J ROSOWSKI	05/15/20

Series	Title	Scale	Sheet	DWG No.
AW238	SERIES 238 AWNING WINDOW - LMI	NTS	3 OF 10	AW238NOA-1

Desc.: BOM & EXTRUSIONS

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
08/30/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

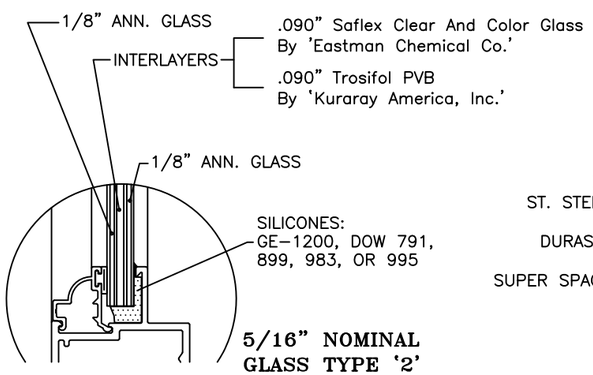
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 1:

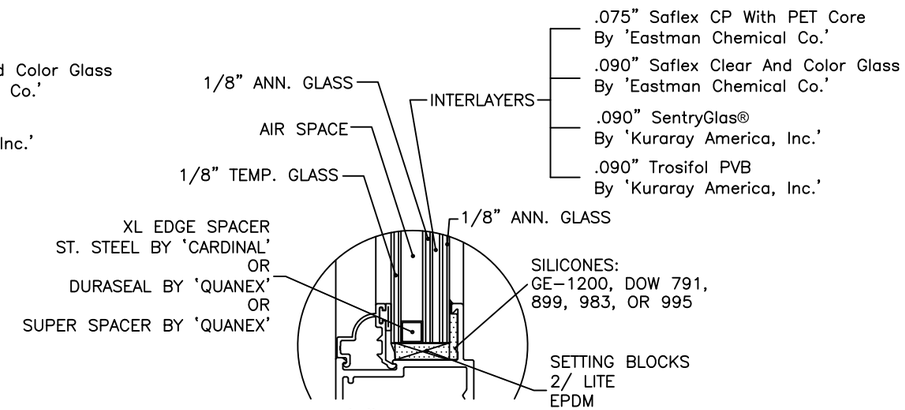
Window Design Pressure, (+/- psf)												Use this table for Glass Types:			2 & 2A
Window Dimensions		Width (in)													
		19-1/8	24	26-1/2	30	36	37	42	48	53-1/8	54	60	66	72	78	84
Height (in)	24	+110/-195	+110/-195	+110/-195	+110/-194.3	+110/-161.9	+110/-145.4	+110/-138.8	+110/-121.4	+/-107.9	+/-107.9	+/-95.4	+/-73.4	+/-56.1	+/-43.8	+/-34.9
	26	+110/-195	+110/-195	+110/-195	+110/-166.5	+110/-145.4	+110/-145.4	+110/-128.1	+/-104.1	+/-101.3	+/-92.5	+/-83.3	+/-64.2	+/-48.9	+/-38.1	
	28	+110/-195	+110/-195	+110/-166.5	+110/-166.5	+110/-138.8	+110/-118.9	+110/-118.9	+/-104.1	+/-92.5	+/-92.5	+/-83.3	+/-64.2	+/-48.9	+/-38.1	
	30	+110/-194.3	+110/-194.3	+110/-155.4	+110/-155.4	+110/-129.5	+110/-111	+110/-111	+/-97.1	+/-86.3	+/-86.3	+/-77.7	+/-60.6	+/-46		
	36	+110/-190.6	+110/-161.9	+110/-137.5	+110/-129.5	+/-107.9	+/-98.5	+/-92.5	+/-80.9	+/-71.9	+/-71.9	+/-64.8				
	38-3/8	+110/-190.6	+110/-138.8	+110/-137.5	+110/-111	+/-98.5	+/-98.5	+/-86.8	+/-69.4	+/-68.6	+/-61.7					
	42	+110/-144.5	+110/-138.8	+110/-111	+110/-111	+/-92.5	+/-79.3	+/-79.3	+/-69.4	+/-61.7	+/-61.7					
	48	+110/-144.5	+110/-121.4	+/-104.3	+/-97.1	+/-80.9	+/-74.7	+/-69.4	+/-60.7							
	50-5/8	+110/-144.5	+/-107.9	+/-104.3	+/-86.3	+/-71.9	+/-74.7	+/-65.8								
	54	+/-107.9	+/-107.9	+/-86.3	+/-86.3	+/-71.9	+/-61.7	+/-61.7								
	60	+/-104.2	+/-95.4	+/-77.9	+/-77.7	+/-64.8	+/-60									
	63	+/-104.2	+/-77.9	+/-77.9	+/-60.6	+/-60	+/-60									
	66	+/-73.4	+/-73.4	+/-60.6	+/-60.6											
	72	+/-63	+/-56.1	+/-46.6	+/-46											
	74-1/4	+/-63	+/-46.6	+/-46.6												
	78	+/-43.8	+/-43.8													
	84	+/-34.9	+/-34.9													

TABLE 2:

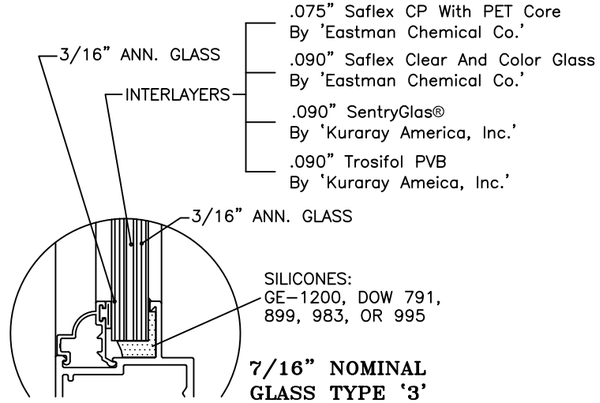
Window Design Pressure, (+/- psf)												Use this table for Glass Type:			3
Window Dimensions		Width (in)													
		19-1/8	24	26-1/2	30	36	37	42	48	53-1/8	54	60	66	72	78	84
Height (in)	24	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120
	26	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120
	28	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120
	30	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	
	36	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-194.5	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120				
	38-3/8	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-194.5	+110/-120	+110/-120	+110/-120	+110/-120					
	42	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120					
	48	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120							
	50-5/8	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120								
	54	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120								
	60	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120									
	63	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120									
	66	+110/-195	+110/-120	+110/-120	+110/-120											
	72	+110/-195	+110/-120	+110/-120	+110/-120											
	74-1/4	+110/-195	+110/-120	+110/-120	+110/-120											
	78	+110/-120	+110/-120	+110/-120	+110/-120											
	84	+110/-120	+110/-120													



5/16" NOMINAL GLASS TYPE '2'



3/4" INSULATED GLASS TYPE '2A'



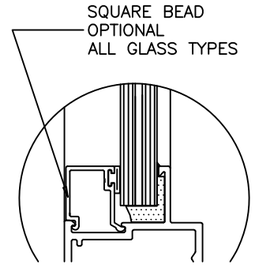
7/16" NOMINAL GLASS TYPE '3'

NOTES:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

LOAD/AREA LIMITS
FOR +110.0, -120.0 PSF = 16.34 SQ. FT.
FOR +110.0, -195.0 PSF = 10.00 SQ. FT.

*LIMIT MAX. LOADS TO 171.0 PSF WHEN MULTI POINT LOCK BY 'INTERLOCK' (9B) IS USED.

SQUARE BEAD OPTIONAL ALL GLASS TYPES



PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami-Dade Product Control

Revision: CONVERTED TO MATRIX TABLE FORMAT - LY - 8/29/23

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title	Date	Rev.
SERIES 238 AWNING WINDOW - LMI	05/15/20	B
Desc.	Drawn By	DWG No.
GLASS & WINDOW DP 1	J ROSOWSKI	AW238NOA-1
Series	Scale	Sheet
AW238	NTS	4 OF 10

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
08/30/23
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 3:

Window Design Pressure, (+/- psf)													Use this table for Glass Type:	3A		
Window Dimensions		Width (in)														
		19-1/8	24	26-1/2	30	36	37	42	48	53-1/8	54	60	66	72	78	84
Height (in)	24	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+/-109.3	+/-85.4	+/-68
	26	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+/-95.3	+/-74.3	
	28	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+/-95.3	+/-74.3	
	30	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-118.2	+/-89.8		
	36	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120				
	38-3/8	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120					
	42	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120					
	48	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-118.4							
	50-5/8	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120								
	54	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120								
	60	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-117									
	63	+110/-120	+110/-120	+110/-118.2	+110/-118.2	+110/-117	+110/-117									
	66	+110/-120	+110/-120	+110/-118.2	+110/-118.2											
	72	+/-109.3	+/-109.3	+/-90.9	+/-89.8											
	74-1/4	+/-90.9	+/-90.9	+/-90.9												
	78	+/-85.4	+/-85.4													
	84	+/-68	+/-68													

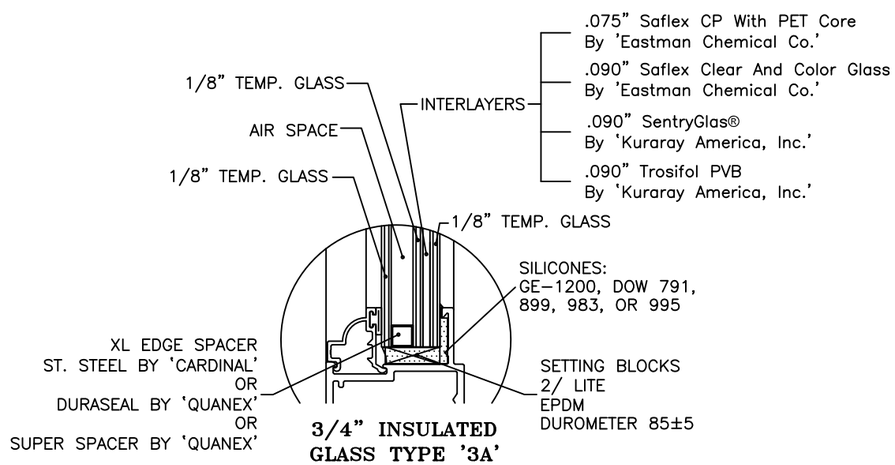
TABLE 4:

Window Design Pressure, (+/- psf)													Use this table for Glass Type:	6		
Window Dimensions		Width (in)														
		19-1/8	24	26-1/2	30	36	37	42	48	53-1/8	54	60	66	72	78	84
Height (in)	24	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120
	26	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	
	28	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	
	30	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120		
	36	+110/-195	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120				
	38-3/8	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120					
	42	+110/-195	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120					
	48	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120							
	50-5/8	+110/-195	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120								
	54	+110/-195	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120								
	60	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120									
	63	+110/-195	+110/-120	+110/-120	+110/-120	+110/-120	+110/-120									
	66	+110/-120	+110/-120	+110/-120	+110/-120											
	72	+110/-120	+110/-120	+110/-120	+110/-120											
	74-1/4	+110/-120	+110/-120	+110/-120												
	78	+110/-120	+110/-120													
	84	+110/-120	+110/-120													

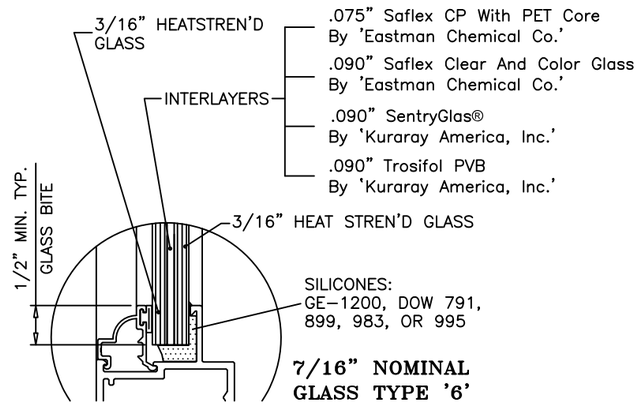
NOTES:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

LOAD/AREA LIMITS
FOR +110.0, –120.0 PSF = 16.34 SQ. FT.
FOR +110.0, –195.0 PSF = 10.00 SQ. FT.

*LIMIT MAX. LOADS TO 171.0 PSF WHEN MULTI POINT LOCK BY 'INTERLOCK' (9B) IS USED.



3/4" INSULATED GLASS TYPE '3A'



7/16" NOMINAL GLASS TYPE '6'

PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 23–0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: CONVERTED TO MATRIX TABLE FORMAT - LY - 8/29/23

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Title	Desc.	Series
SERIES 238 AWNING WINDOW - LMI	GLASS & WINDOW DP 2	AW238

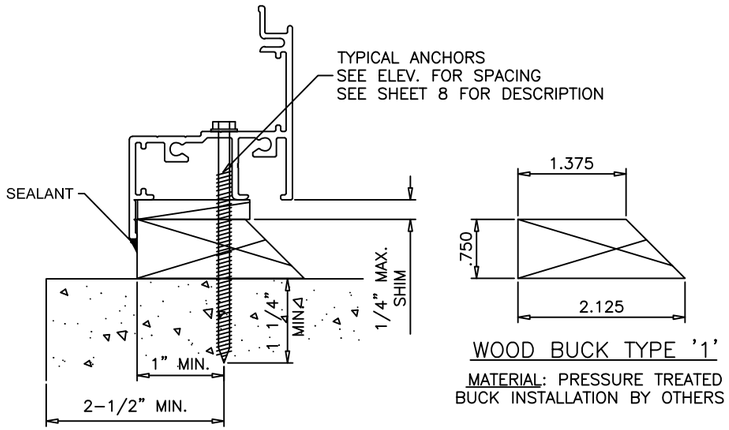
Date	Drawn By	Rev.
05/15/20	J ROSOWSKI	B

Scale	Sheet	DWG No.
NTS	5 OF 10	AW238NOA-1

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
08/30/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION CONDITIONS FLANGE FRAME (APPLIES TO ALL FOUR SIDES)

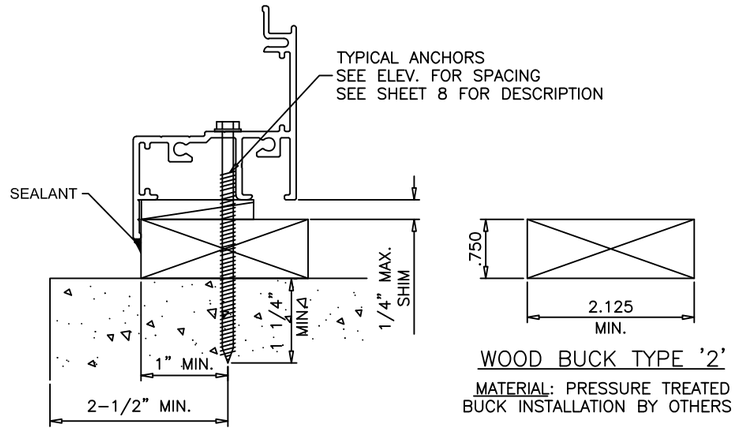
FOR ANCHOR PERFORMANCE VALUES SEE SHEETS 8&9



WOOD BUCK TYPE '1'

MATERIAL: PRESSURE TREATED BUCK INSTALLATION BY OTHERS

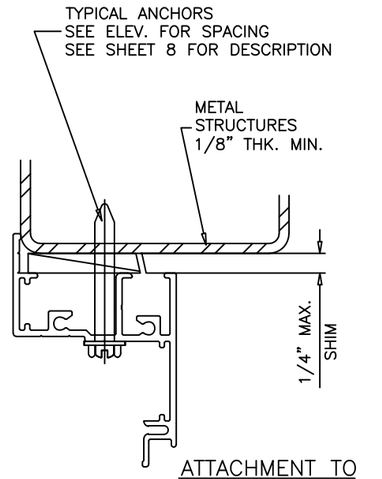
INSTALLATION TYPE '1'
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



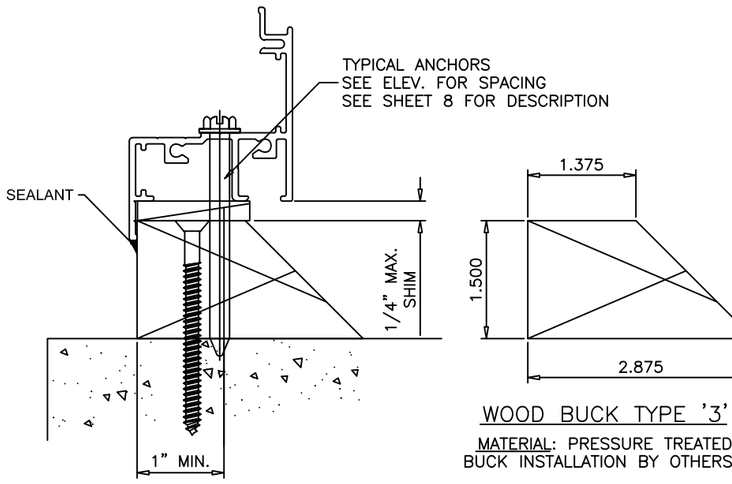
WOOD BUCK TYPE '2'

MATERIAL: PRESSURE TREATED BUCK INSTALLATION BY OTHERS

INSTALLATION TYPE '2'
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



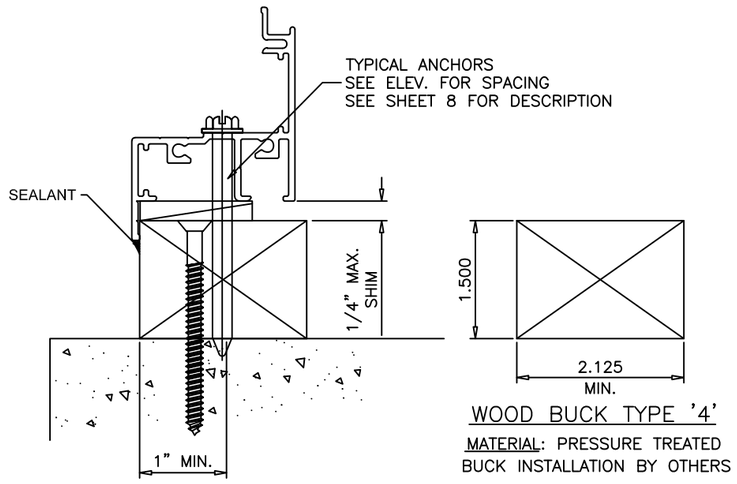
ATTACHMENT TO
METAL STRUCTURES



WOOD BUCK TYPE '3'

MATERIAL: PRESSURE TREATED BUCK INSTALLATION BY OTHERS

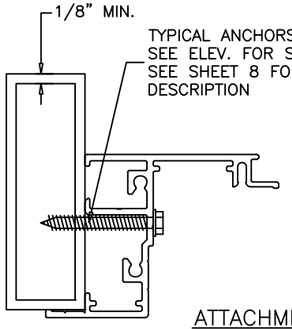
INSTALLATION TYPE '3'
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



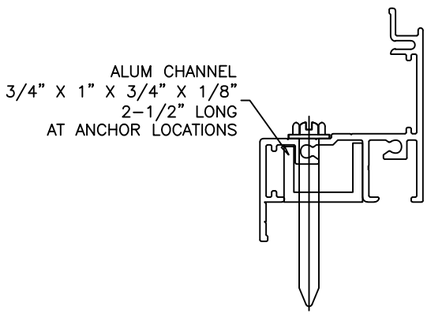
WOOD BUCK TYPE '4'

MATERIAL: PRESSURE TREATED BUCK INSTALLATION BY OTHERS

INSTALLATION TYPE '4'
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
APPROVED MULLIONS



ALT. ANCHOR LOCATION
WITH SHEAR CLIP

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET - LMY - 8/29/23

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

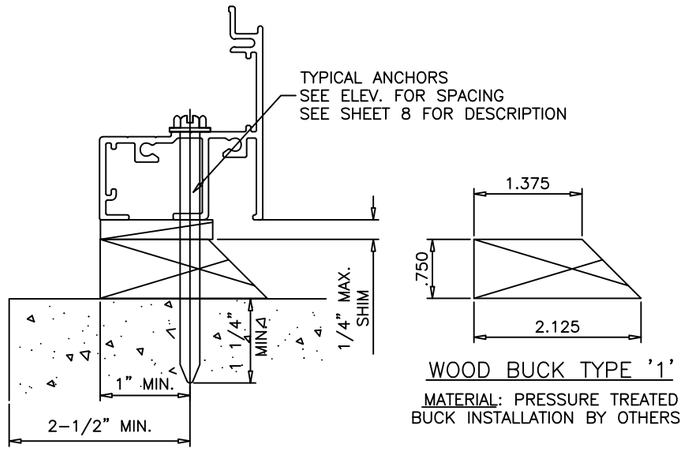
Title	Date	Drawn By	DWG No.	Sheet	Scale	Series
SERIES 238 AWNING WINDOW - LMI	05/15/20	J ROSOWSKI	AW238NOA-1	6 OF 10	NTS	AW238
INSTALLATION CONDITIONS, FL.						

Rev. B

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/30/23
A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION CONDITIONS EQUAL LEG FRAME (APPLIES TO ALL FOUR SIDES)

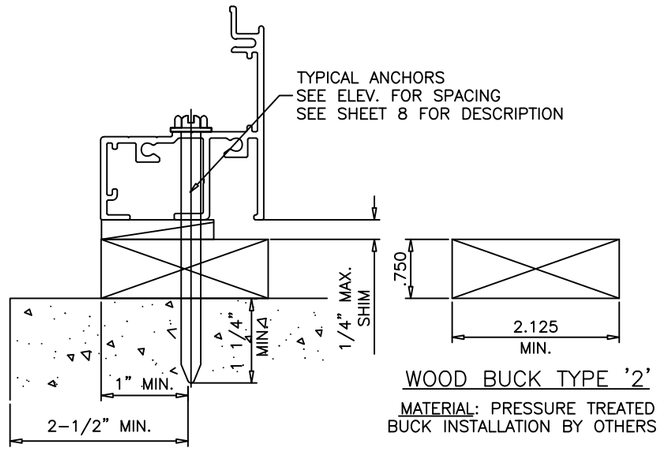
FOR ANCHOR PERFORMANCE VALUES SEE SHEETS 8&9



INSTALLATION TYPE '1'
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

WOOD BUCK TYPE '1'

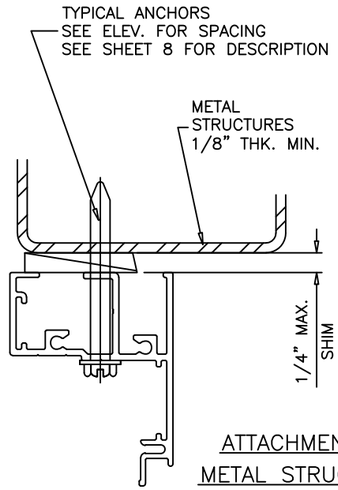
MATERIAL: PRESSURE TREATED
BUCK INSTALLATION BY OTHERS



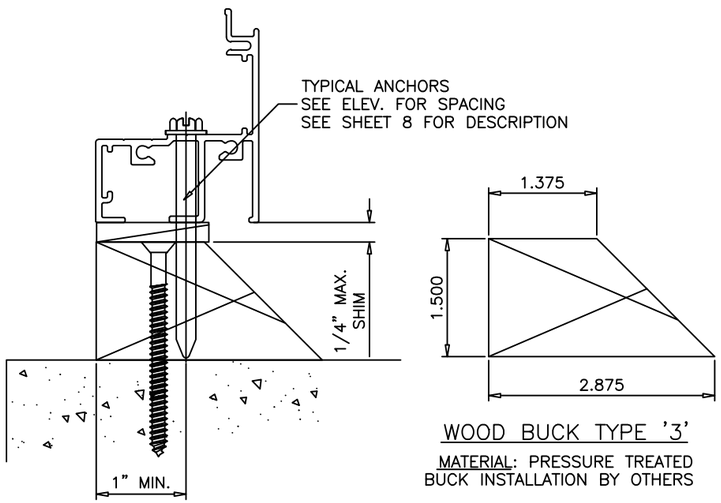
INSTALLATION TYPE '2'
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

WOOD BUCK TYPE '2'

MATERIAL: PRESSURE TREATED
BUCK INSTALLATION BY OTHERS



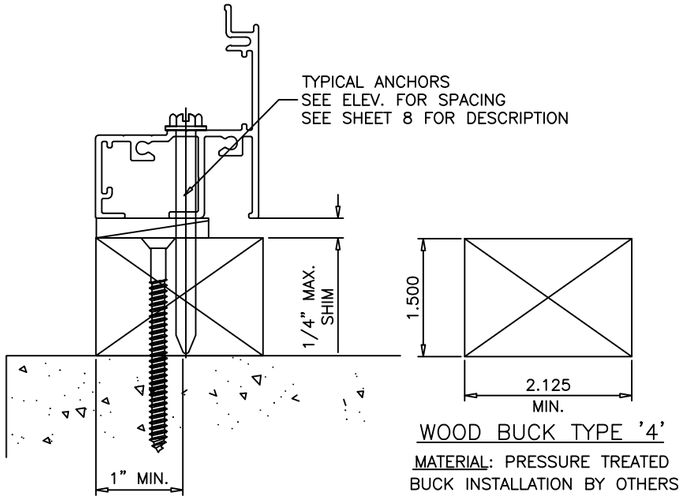
ATTACHMENT TO
METAL STRUCTURES



INSTALLATION TYPE '3'
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

WOOD BUCK TYPE '3'

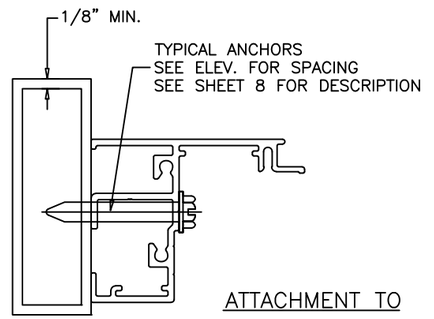
MATERIAL: PRESSURE TREATED
BUCK INSTALLATION BY OTHERS



INSTALLATION TYPE '4'
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

WOOD BUCK TYPE '4'

MATERIAL: PRESSURE TREATED
BUCK INSTALLATION BY OTHERS



ATTACHMENT TO
APPROVED MULLIONS

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET - LMY - 8/29/23

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Series	Desc.	Scale	Sheet	DWG No.	Drawn By	Date	Rev.
AW238	SERIES 238 AWNING WINDOW - LMI	NTS	7 OF 10	AW238NOA-1	J ROSOWSKI	05/15/20	B

INSTALLATION CONDITIONS, EL.

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
08/30/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 5:

Performance Values of Installation Anchors, (+/- psf)		Use this table for Anchor Types:	A & C W/O Shear Clip, @ 17" OC																
Window Dimensions		Height (in)																	
		24	26	28	30	36	38-3/8	42	48	50-5/8	53-1/8	54	60	63	66	72	74-1/4	78	84
Width (in)	19-1/8	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195
	24	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195
	26-1/2	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-167	+/-167	+/-167	+/-167	+/-177.1	+/-177.1	+/-177.1	+/-148.9	
	30	+/-195	+/-195	+/-195	+/-195	+/-193.6	+/-165.9	+/-165.9	+/-193.6	+/-172.1	+/-172.1	+/-172.1	+/-154.9	+/-176	+/-176	+/-161.3	+/-148.9	+/-148.9	
	36	+/-195	+/-195	+/-195	+/-195	+/-193.6	+/-165.9	+/-165.9	+/-161.3	+/-148.8	+/-143.4	+/-143.4	+/-129.1	+/-119.6					
	37	+/-195	+/-195	+/-177.8	+/-165.9	+/-161.3	+/-147.3	+/-148.8	+/-148.8	+/-148.8	+/-119.6	+/-119.6	+/-119.6	+/-119.6					
	42	+/-195	+/-195	+/-177.8	+/-165.9	+/-161.3	+/-129.7	+/-138.3	+/-131.1	+/-131.1									
	48	+/-195	+/-195	+/-177.8	+/-165.9	+/-161.3	+/-138.3	+/-138.3	+/-121										
	53-1/8	+/-195	+/-195	+/-184.4	+/-172.1	+/-143.4	+/-136.7	+/-122.9											
	54	+/-195	+/-184.4	+/-184.4	+/-172.1	+/-143.4	+/-122.9	+/-122.9											
	60	+/-195	+/-165.9	+/-165.9	+/-154.9	+/-129.1													
	66	+/-195	+/-188.6	+/-188.6	+/-176														
	72	+/-195	+/-172.9	+/-172.9	+/-161.3														
	78	+/-195	+/-159.6	+/-159.6	+/-148.9														
	84	+/-195	+/-177.8	+/-177.8															

TABLE 6:

Performance Values of Installation Anchors, (+/- psf)		Use this table for Anchor Types:	A & C W/O Shear Clip, @ 10" OC														
Window Dimensions		Height (in)															
		28	30	36	38-3/8	42	48	50-5/8	53-1/8	54	60	63	66	72	74-1/4	78	84
Width (in)	24	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195
	26-1/2	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	
	30	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	
	36	+/-195	+/-195	+/-195	+/-184.4	+/-184.4	+/-195	+/-195	+/-195	+/-195	+/-193.6	+/-195					
	37	+/-195	+/-195	+/-195	+/-195	+/-186	+/-186	+/-186	+/-195	+/-195	+/-195	+/-195					
	42	+/-195	+/-173	+/-173	+/-173	+/-163.9	+/-163.9	+/-163.9									
	48	+/-195	+/-195	+/-195	+/-172.9	+/-172.9	+/-151.3										
	53-1/8	+/-195	+/-195	+/-195	+/-195	+/-184.4											
	54	+/-195	+/-195	+/-195	+/-184.4	+/-184.4											
	60	+/-195	+/-195	+/-193.6													
	66	+/-195	+/-195														
	72	+/-195	+/-195														
	78	+/-195	+/-195														
	84	+/-195															

TABLE 7:

Performance Values of Installation Anchors, (+/- psf)		Use this table for Anchor Types:	A & C W/ Shear Clip, @ 17" OC																
Window Dimensions		Height (in)																	
		24	26	28	30	36	38-3/8	42	48	50-5/8	53-1/8	54	60	63	66	72	74-1/4	78	84
Width (in)	19-1/8	+/-149.4	+/-149.4	+/-151.9	+/-151.9	+/-151.9	+/-151.9	+/-153.5	+/-153.5	+/-153.5	+/-123.3	+/-123.3	+/-123.3	+/-123.3	+/-130.8	+/-130.8	+/-130.8	+/-99.2	+/-110.6
	24	+/-129	+/-110.6	+/-110.6	+/-154.8	+/-129	+/-110.6	+/-110.6	+/-129	+/-114.7	+/-114.7	+/-114.7	+/-103.2	+/-117.3	+/-117.3	+/-107.5	+/-99.2	+/-99.2	+/-110.6
	26-1/2	+/-107.8	+/-107.8	+/-109.6	+/-109.6	+/-109.6	+/-109.6	+/-110.8	+/-110.8	+/-110.8	+/-89	+/-89	+/-89	+/-89	+/-94.4	+/-94.4	+/-94.4	+/-79.4	
	30	+/-154.8	+/-132.7	+/-132.7	+/-123.8	+/-103.2	+/-88.5	+/-88.5	+/-103.2	+/-91.7	+/-91.7	+/-91.7	+/-82.6	+/-93.8	+/-93.8	+/-86	+/-79.4	+/-79.4	
	36	+/-129	+/-110.6	+/-110.6	+/-103.2	+/-86	+/-73.7	+/-73.7	+/-86	+/-76.4	+/-76.4	+/-76.4	+/-68.8	+/-63.8					
	37	+/-115.9	+/-115.9	+/-78.5	+/-78.5	+/-78.5	+/-78.5	+/-79.3	+/-79.3	+/-79.3	+/-63.8	+/-63.8	+/-63.8	+/-63.8					
	42	+/-102.1	+/-102.1	+/-69.2	+/-69.2	+/-69.2	+/-69.2	+/-69.9	+/-69.9	+/-69.9									
	48	+/-129	+/-110.6	+/-110.6	+/-103.2	+/-86	+/-73.7	+/-73.7	+/-64.5										
	53-1/8	+/-107.6	+/-107.6	+/-72.9	+/-72.9	+/-72.9	+/-72.9	+/-65.5											
	54	+/-114.7	+/-98.3	+/-98.3	+/-91.7	+/-76.4	+/-65.5	+/-65.5											
	60	+/-103.2	+/-88.5	+/-88.5	+/-82.6	+/-68.8													
	66	+/-117.3	+/-100.5	+/-100.5	+/-93.8														
	72	+/-107.5	+/-92.1	+/-92.1	+/-86														
	78	+/-99.2	+/-85.1	+/-85.1	+/-79.4														
	84	+/-110.6	+/-94.8	+/-94.8															

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'–

1/4" DIA. KWIK–CON II BY 'HILTI'
(Fu=163 KSI, Fy=157 KSI)

1/4" DIA. ULTRACON+ BY 'DEWALT'
(Fu=164 KSI, Fy=148 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1–1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1–1/4" MIN. EMBED INTO CONC. OR MASONRY

(ULTRACON+ ANCHORS MAY NOT BE USED WITH THE SHEAR CLIP)

TYPE 'B'–

1/4" DIA. KWIK–CON II BY 'HILTI'
(Fu=163 KSI, Fy=157 KSI)

1/4" DIA. ULTRACON+ BY 'DEWALT'
(Fu=164 KSI, Fy=148 KSI)

DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED INTO CONCRETE

(ULTRACON+ ANCHORS MAY NOT BE USED WITH THE SHEAR CLIP)

TYPE 'C'–

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063–T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2–1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C–90 HOLLOW/FILLED NORMAL WEIGHT
BLOCK AT JAMBS f'm = 2000 PSI MIN.

ALL ANCHOR HEAD TYPES ARE ACCEPTABLE

PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 23–0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: CONVERTED TO MATRIX TABLE FORMAT - LY - 8/29/23

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Series	Title	Scale	Sheet	DWG No.	Rev.
AW238	SERIES 238 AWNING WINDOW - LMI	NTS	8 OF 10	AW238NOA-1	B

Desc.: ANCHORS & DP
Drawn By: J ROSOWSKI
Date: 05/15/20

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/30/23
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 8:

Performance Values of Installation Anchors, (+/- psf)		Use this table for Anchor Types:	A & C W/ Shear Clip, @ 10" OC																
Window Dimensions		Height (in)																	
		24	26	28	30	36	38-3/8	42	48	50-5/8	53-1/8	54	60	63	66	72	74-1/4	78	84
Width (in)	19-1/8	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-158.8	+/-165.9
	24	+/-193.5	+/-165.9	+/-165.9	+/-154.8	+/-172	+/-147.4	+/-147.4	+/-161.3	+/-172	+/-172	+/-172	+/-154.8	+/-164.2	+/-164.2	+/-150.5	+/-158.8	+/-158.8	+/-165.9
	26-1/2	+/-161.8	+/-161.8	+/-146.1	+/-146.1	+/-146.1	+/-146.1	+/-138.5	+/-138.5	+/-138.5	+/-155.8	+/-155.8	+/-155.8	+/-155.8	+/-151.1	+/-151.1	+/-151.1	+/-127	
	30	+/-154.8	+/-132.7	+/-132.7	+/-123.8	+/-137.6	+/-117.9	+/-117.9	+/-129	+/-137.6	+/-137.6	+/-137.6	+/-123.8	+/-131.3	+/-131.3	+/-120.4	+/-127	+/-127	
	36	+/-172	+/-147.4	+/-147.4	+/-137.6	+/-114.7	+/-98.3	+/-98.3	+/-107.5	+/-114.7	+/-114.7	+/-114.7	+/-103.2	+/-111.6					
	37	+/-154.5	+/-154.5	+/-104.7	+/-104.7	+/-104.7	+/-104.7	+/-99.2	+/-99.2	+/-99.2	+/-111.6	+/-111.6	+/-111.6	+/-111.6					
	42	+/-136.1	+/-136.1	+/-92.2	+/-92.2	+/-92.2	+/-92.2	+/-87.4	+/-87.4	+/-87.4									
	48	+/-161.3	+/-138.2	+/-138.2	+/-129	+/-107.5	+/-92.1	+/-92.1	+/-80.6										
	53-1/8	+/-161.4	+/-161.4	+/-109.3	+/-109.3	+/-109.3	+/-109.3	+/-98.3											
	54	+/-172	+/-147.4	+/-147.4	+/-137.6	+/-114.7	+/-98.3	+/-98.3											
	60	+/-154.8	+/-132.7	+/-132.7	+/-123.8	+/-103.2													
	66	+/-164.2	+/-131.3	+/-131.3	+/-131.3														
	72	+/-150.5	+/-129	+/-129	+/-120.4														
	78	+/-158.8	+/-136.1	+/-136.1	+/-127														
	84	+/-165.9	+/-142.2	+/-142.2															

TABLE 9:

Performance Values of Installation Anchors, (+/- psf)		Use this table for Anchor Type:	B W/ or W/O Shear Clip, @ 17" OC														
Window Dimensions		Height (in)															
		28	30	36	38-3/8	42	48	50-5/8	53-1/8	54	60	63	66	72	74-1/4	78	84
Width (in)	24	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195
	26-1/2	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	
	30	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	
	36	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-181.4						
	37	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-181.4	+/-181.4	+/-181.4	+/-181.4					
	42	+/-195	+/-195	+/-195	+/-179.8	+/-179.8	+/-195	+/-186.4	+/-186.4	+/-186.4							
	48	+/-195	+/-195	+/-195	+/-195	+/-195	+/-183.5										
	53-1/8	+/-195	+/-195	+/-195	+/-195	+/-186.4											
	54	+/-195	+/-195	+/-195	+/-186.4	+/-186.4											
	60	+/-195	+/-195	+/-195													
	66	+/-195	+/-195														
	72	+/-195	+/-195														
	78	+/-195	+/-195														
	84	+/-195															

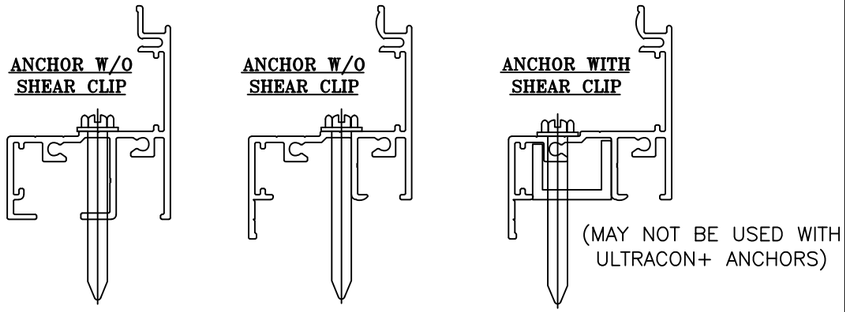


TABLE 10:

Performance Values of Installation Anchors, (+/- psf)		Use this table for Anchor Type:	B W/ or W/O Shear Clip, @ 10" OC														
Window Dimensions		Height (in)															
		28	30	36	38-3/8	42	48	50-5/8	53-1/8	54	60	63	66	72	74-1/4	78	84
Width (in)	24	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195
	26-1/2	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	
	30	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	
	36	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195					
	37	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195					
	42	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195							
	48	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195										
	53-1/8	+/-195	+/-195	+/-195	+/-195	+/-195											
	54	+/-195	+/-195	+/-195	+/-195	+/-195											
	60	+/-195	+/-195	+/-195													
	66	+/-195	+/-195														
	72	+/-195	+/-195														
	78	+/-195	+/-195														
	84	+/-195															

PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 23–0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: CONVERTED TO MATRIX TABLE FORMAT - LY - 8/29/23

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Impact Resistant Windows & Doors
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Series	Desc.	Title
AW238	ANCHORS & DP 2	SERIES 238 AWNING WINDOW - LMI

Scale	Sheet	DWG No.	Drawn By	Date	Rev.
NTS	9 OF 10	AW238NOA-1	J ROSOWSKI	05/15/20	B

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
08/30/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

ALUMINUM BUCK FRAMING DETAILS

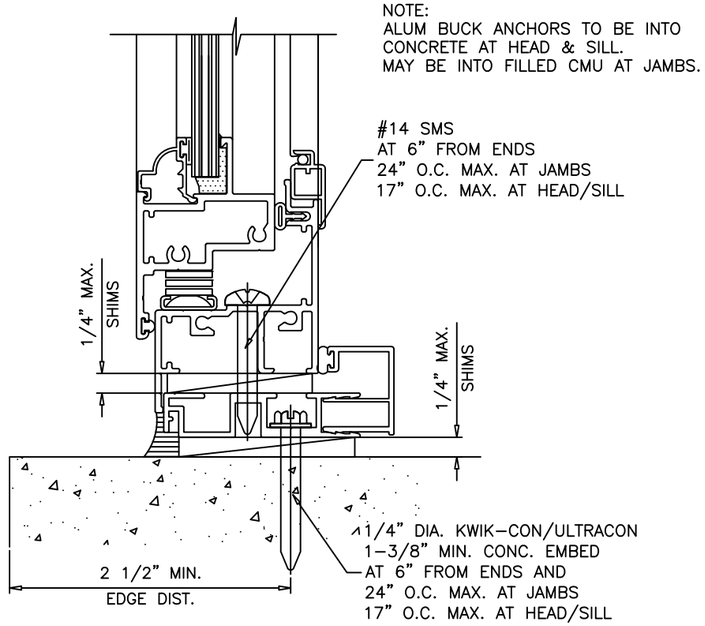
REFER TO SHEETS 4 THRU 9 FOR WINDOW CAPACITIES. USE LOWER APPLICABLE VALUES.

TABLE 11:

Performance Values of Aluminum Buck Installation Anchors, (+/- psf)															Use this table for:		1/4" Anchors into Masonry		
Window Dimensions		Height (in)																	
		24	26	28	30	36	38-3/8	42	48	50-5/8	53-1/8	54	60	63	66	72	74-1/4	78	84
Width (in)	19-1/8	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-180.1	+/-180.1	+/-180.1	+/-136.6	+/-126.9
	24	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-177.6	+/-161.5	+/-161.5	+/-148	+/-136.6	+/-136.6	+/-126.9
	26-1/2	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-190.6	+/-190.6	+/-190.6	+/-153.2	+/-153.2	+/-153.2	+/-153.2	+/-130	+/-130	+/-130	+/-136.6	
	30	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-177.6	+/-161.5	+/-161.5	+/-148	+/-136.6	+/-136.6	
	36	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-185	+/-164.4	+/-164.4	+/-164.4	+/-148	+/-82.3					
	37	+/-195	+/-195	+/-135.1	+/-135.1	+/-135.1	+/-135.1	+/-102.4	+/-102.4	+/-102.4	+/-82.3	+/-82.3	+/-82.3	+/-82.3					
	42	+/-190.3	+/-163.1	+/-163.1	+/-152.2	+/-126.9	+/-108.7	+/-108.7	+/-95.1	+/-84.6	+/-84.6	+/-84.6							
	48	+/-195	+/-190.3	+/-190.3	+/-177.6	+/-148	+/-126.9	+/-126.9	+/-111										
	53-1/8	+/-185.2	+/-185.2	+/-125.4	+/-125.4	+/-125.4	+/-125.4	+/-112.8											
	54	+/-195	+/-169.1	+/-169.1	+/-157.9	+/-131.6	+/-112.8	+/-112.8											
	60	+/-177.6	+/-152.2	+/-152.2	+/-142.1	+/-118.4													
	66	+/-195	+/-173	+/-173	+/-161.5														
	72	+/-185	+/-158.6	+/-158.6	+/-148														
	78	+/-170.8	+/-146.4	+/-146.4	+/-136.6														
	84	+/-190.3	+/-163.1	+/-163.1															

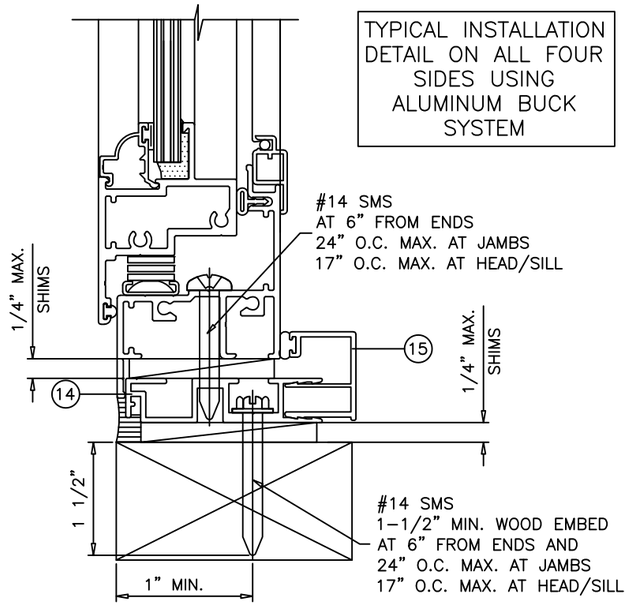
TABLE 12:

Performance Values of Aluminum Buck Installation Anchors, (+/- psf)															Use this table for:		#14 Anchors into Wood		
Window Dimensions		Height (in)																	
		24	26	28	30	36	38-3/8	42	48	50-5/8	53-1/8	54	60	63	66	72	74-1/4	78	84
Width (in)	19-1/8	+/-195	+/-195	+/-195	+/-195	+/-195	+/-195	+/-176.1	+/-176.1	+/-176.1	+/-141.5	+/-141.5	+/-141.5	+/-141.5	+/-120.1	+/-120.1	+/-120.1	+/-91.1	+/-84.6
	24	+/-195	+/-195	+/-195	+/-195	+/-195	+/-169.1	+/-169.1	+/-148	+/-131.6	+/-131.6	+/-131.6	+/-118.4	+/-107.6	+/-107.6	+/-98.7	+/-91.1	+/-91.1	+/-84.6
	26-1/2	+/-195	+/-195	+/-167.7	+/-167.7	+/-167.7	+/-167.7	+/-127.1	+/-127.1	+/-127.1	+/-102.1	+/-102.1	+/-102.1	+/-102.1	+/-86.7	+/-86.7	+/-86.7	+/-72.9	
	30	+/-195	+/-195	+/-195	+/-189.4	+/-157.9	+/-135.3	+/-135.3	+/-118.4	+/-105.2	+/-105.2	+/-105.2	+/-94.7	+/-86.1	+/-86.1	+/-78.9	+/-72.9	+/-72.9	
	36	+/-195	+/-169.1	+/-169.1	+/-157.9	+/-131.6	+/-112.8	+/-112.8	+/-98.7	+/-87.7	+/-87.7	+/-87.7	+/-78.9	+/-73.1					
	37	+/-177.2	+/-177.2	+/-120.1	+/-120.1	+/-120.1	+/-120.1	+/-91	+/-91	+/-91	+/-73.1	+/-73.1	+/-73.1	+/-73.1					
	42	+/-169.1	+/-145	+/-145	+/-135.3	+/-112.8	+/-96.7	+/-96.7	+/-84.6	+/-75.2	+/-75.2	+/-75.2							
	48	+/-148	+/-126.9	+/-126.9	+/-118.4	+/-98.7	+/-84.6	+/-84.6	+/-74										
	53-1/8	+/-123.4	+/-123.4	+/-83.6	+/-83.6	+/-83.6	+/-83.6	+/-75.2											
	54	+/-131.6	+/-112.8	+/-112.8	+/-105.2	+/-87.7	+/-75.2	+/-75.2											
	60	+/-118.4	+/-101.5	+/-101.5	+/-94.7	+/-78.9													
	66	+/-134.5	+/-115.3	+/-115.3	+/-107.6														
	72	+/-123.3	+/-105.7	+/-105.7	+/-98.7														
	78	+/-113.8	+/-97.6	+/-97.6	+/-91.1														
	84	+/-126.9	+/-108.7	+/-108.7															



INSTALLATION TYPE '5'
INTO MASONRY

TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES USING ALUMINUM BUCK SYSTEM



INSTALLATION TYPE '6'
2BY WOOD BUCK OR WOOD STRUCTURES

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0906.01
Expiration Date 10/31/2028
By Ishaq I. Chanda
Miami-Dade Product Control

Revision: CONVERTED TO MATRIX TABLE FORMAT - LY - 8/29/23

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1070 TECHNOLOGY DRIVE
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Rev.	Date	Drawn By	DWG No.	Sheet	Scale	Series	Desc.	Title
B	05/15/20	J ROSOWSKI	AW238NOA-1	10 OF 10	NTS	AW238	ANCHORS & DP, ALUM. BUCK INSTALL.	SERIES 238 AWNING WINDOW - LMI

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/30/23
A. LYNN MILLER, P.E.
P.E.# 58705