

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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www.miamidade.gov/building

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

NOTICE OF ACCEPTANCE (NOA)

CGI Windows and Doors, Inc. 3780 W 104th 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 Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-PW238**, titled "238 Fixed Window", sheets 1 through 11 of 11, dated 05/06/20, with revision **A** dated 05/06/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: 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 NOA# 17-0926.18 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 Manuel Perez, P.E.



9/16/20

NOA No. 20-0519.06 Expiration Date: October 26, 2023 Approval Date: September 24 2020 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. **DRAWINGS**

- 1. Manufacturer's die drawings and sections. (Submitted under NOA's No.01-0918.01 and 15-0512.16)
- Drawing No. W99-10, titled "Series-238 Aluminum Fixed Window (L.M.I.)", sheets 1 2. through 11 of 11, dated 02/19/99, with revision L dated 02/01/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. (Submitted under NOA No.17-0926.18)

В. **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.

(Submitted under NOA No.15-0512.16)

- 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. (Submitted under NOA No.15-0512.16)

- 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.

(Submitted under NOA No.15-0512.16)

Product Control Examiner NOA No. 20-0519.06

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- B. TESTS (CONTINUED)
 - 4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94 along with marked-up drawings and installation diagram of aluminum fixed, casement and project-out windows, prepared by Hurricane Test Laboratory, Inc., Test Reports No. **HETI-08-2143**, **HETI-08-2144**, **HETI-07-4287** and **HETI-07-4298**, dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P.E.

(Submitted under NOA No. 08-1114.06)

- 5. 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 series 238 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 from 10/10/06 to 08/28/07, all signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No 08-1114.06)

- 6. Test reports on: 1) Air Infiltration Test, per SFBC, PA 201-94
 - 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 a series 238 aluminum fixed window, prepared by Hurricane Test Laboratory, Inc., Test Reports No.

HTL-0080-0303-96, HTL-0080-1107-98, HTL-0080-1127-98, HTL-0080-0606-99, HTL-0080-1020-99 and HTL-0080-0203-99, dated 03/06/96, 09/08/96, 11/10/98, 12/23/98 and 02/05-15/99, 06/07/99 and 10/28/99, all signed and sealed by Timothy S. Marshall, P.E.

(Submitted under NOA No. 01-0918.01)

- 7. Test reports on: 1) Large Missile Impact Test per SFBC, PA 201-94,
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of aluminum casement, project-out and fixed windows, prepared by American Test Lab of South Florida, Inc., Test Report No. **ATL-1209.01-94**, dated 02/20/95, signed and sealed by Gerard B. Sullivan, P.E.

(Submitted under NOA No. 01-0918.01)

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0519.06

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)**, dated 09/21/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

(Submitted under NOA No. 17-0926.18)

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. 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. 17-1114.14 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/18/18, expiring on 07/08/19.
- 3. 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.
- 4. Notice of Acceptance No. 17-0712.05 issued to Eastman Chemical Company (MA) for their "Saflex Clear and Color Glass Interlayers" dated 09/07/17, 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 29, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. (Submitted under NOA No.17-0926.18)
- 2. Laboratory compliance letters for Test Reports No. HTL-0080-0301-07, HTL-0080-0905-06 and HTL-0080-0905-07, issued by Hurricane Test Laboratory, Inc., dated 08/08/08 and 10/12/06, all signed and sealed by Vinu J. Abraham, P.E. (Submitted under NOA No. 08-1114.06)
- 3. Laboratory compliance letters for Test Reports No. HTL-0080-0303-96, HTL-0080-0303-96, HTL-0080-1107-98, HTL-0080-1127-98, HTL-0080-0606-99 and HTL-0080-0203-99, issued by Hurricane Test Laboratory, Inc., dated 03/06/96, 09/08/96, 12/23/98 and 11/29/99, all signed and sealed by Timothy S. Marshall, P.E.

(Submitted under NOA No. 01-0918.01)

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0519.06

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- F. STATEMENTS (CONTINUED)
 - 4. Laboratory compliance letters for Test Report No. **ATL-1209.01-94**, issued by American Test Lab of South Florida, Inc., dated 02/20/95, signed and sealed by Gerard B. Sullivan, P.E.
 - (Submitted under NOA No. 01-0918.01)
 - 5. 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. (Submitted under NOA No. 14-0903.06)

G. OTHERS

1. Notice of Acceptance No. **15-0512.16**, issued to CGI Windows and Doors, Inc. for their Series "238" Aluminum Fixed Window - L.M.I., approved on 09/17/15 and expiring on 10/26/18.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0519.06

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **MD-PW238**, titled "238 Fixed Window", sheets 1 through 11 of 11, dated 05/06/20, with revision **A** dated 05/06/20, prepared by manufacturer, 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
 - 6) Forced Entry Test, per ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all PGT Industries, Inc. CGI Windows and Doors, 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.:

PGT Industries, Inc. test specimens:

FTL-20-2107.1, 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.

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

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC** 5th **Edition** (2014), dated 08/05/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., updated to comply with **FBC** 7th **Edition** (2020), on 05/11/20 by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0519.06

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. NEW EVIDENCE SUBMITTED (CONTINUED)
- D. QUALITY ASSURANCE
 - 1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 18-0725.11 issued to Kuraray America, Inc. for their "Kuraray SentryGlas® XtraTM (SGXTM) Clear Glass Interlayer" dated 05/23/19, expiring on 05/23/24.
- 2. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
- 3. Notice of Acceptance No. 18-0301.06 issued to Eastman Chemical Company (MA) for their "Saflex CP Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 05/17/18, 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" dated 09/07/17, expiring on 05/21/21.

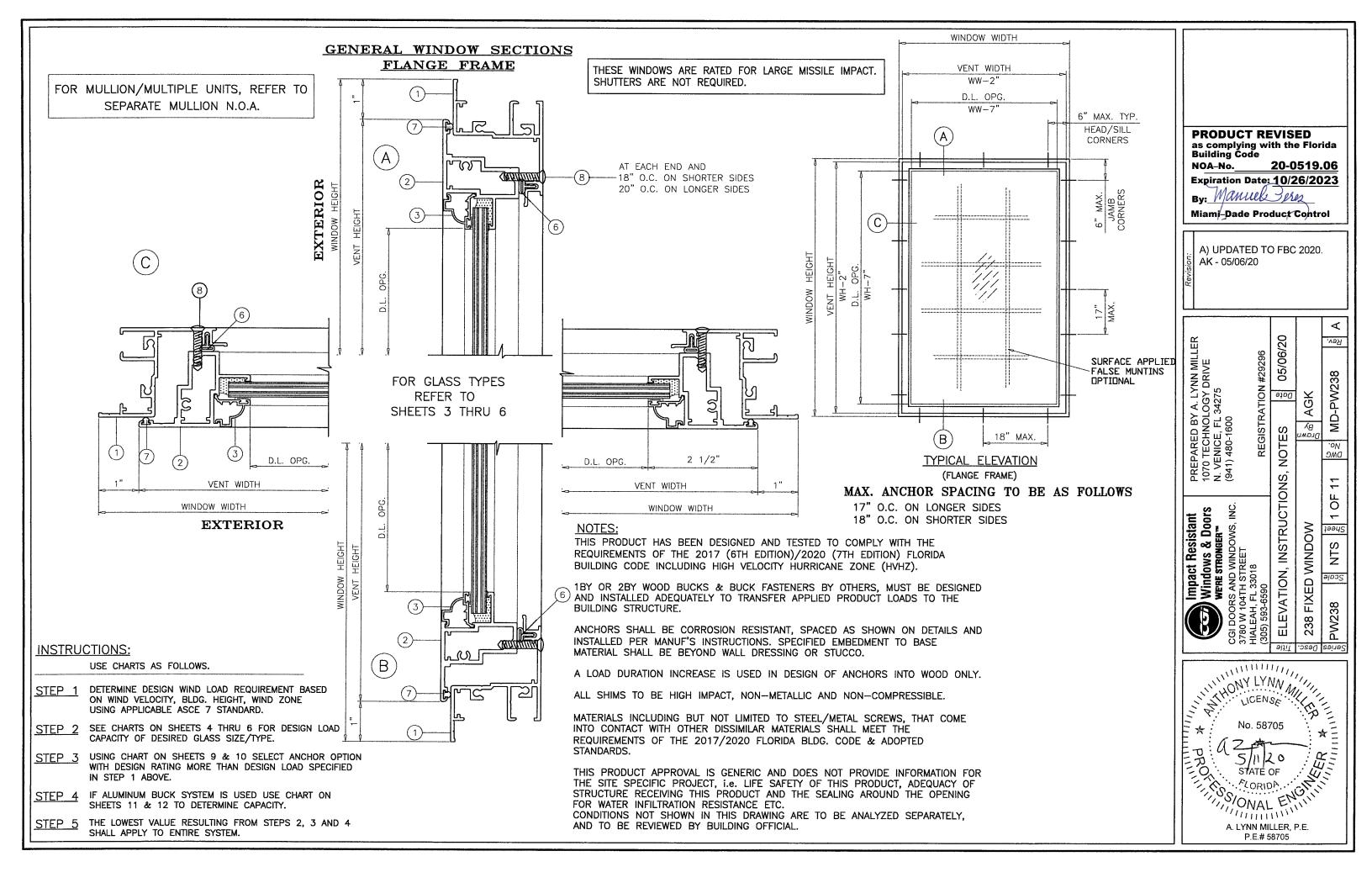
F. STATEMENTS

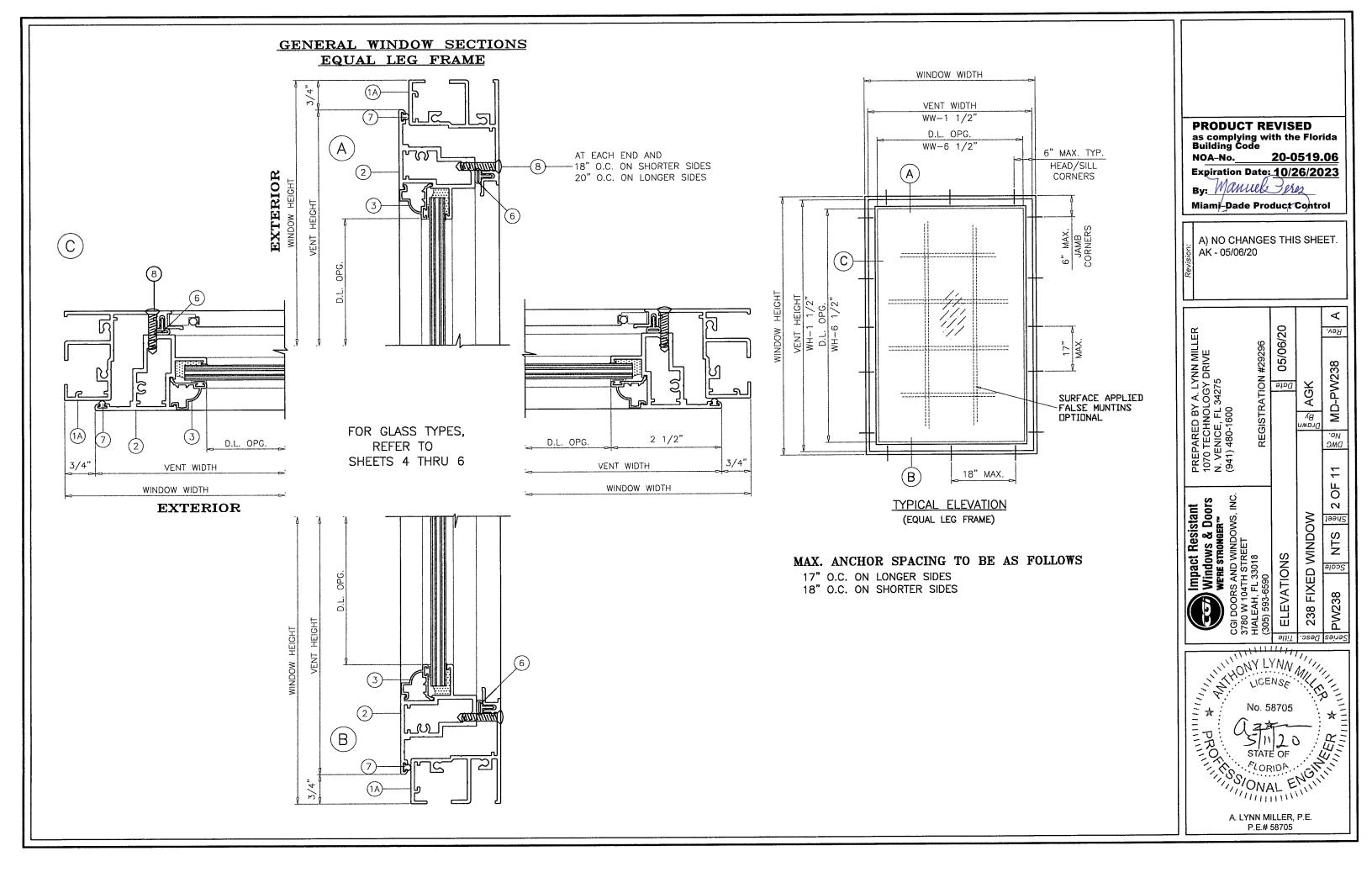
- 1. Statement letter of conformance, of complying with FBC 6th Edition (2017), and FBC 7th Edition (2020) dated May 06, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest dated May 06, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 3. Notification of Successor Engineer for manufacturer's NOA document per Section 61G15-27.001 of the Florida Administrative Code, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated May 11, 2020, signed and sealed by Anthony Lynn Miller, P.E.
- 4. Proposal No. **19-1155 TP** issued by the Product Control Section, dated January 10, 2020, signed by Ishaq Chanda, P.E.

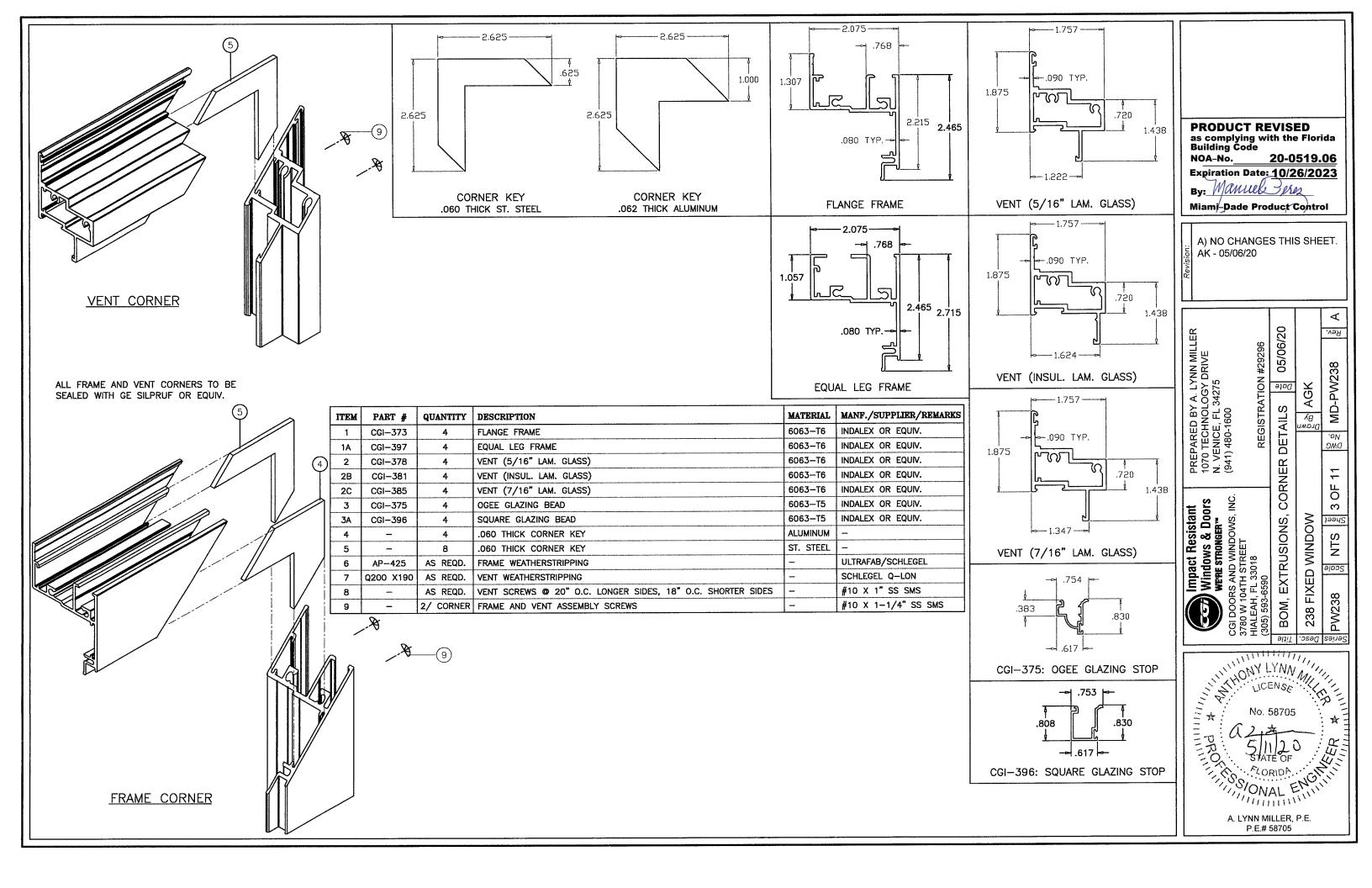
G. OTHERS

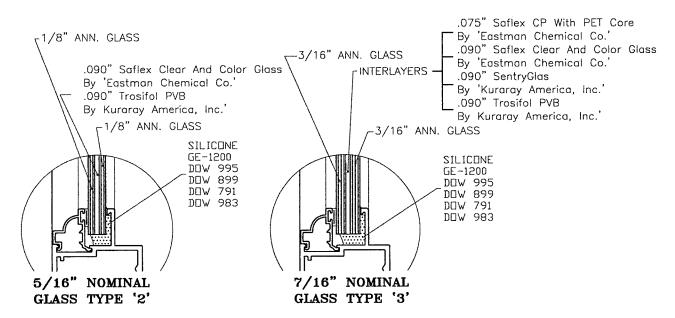
1. Notice of Acceptance No. **17-0926.18**, issued to CGI Windows and Doors, Inc. for their Series "238" Aluminum Fixed Window - L.M.I., approved on 02/15/18 and expiring on 10/26/23.

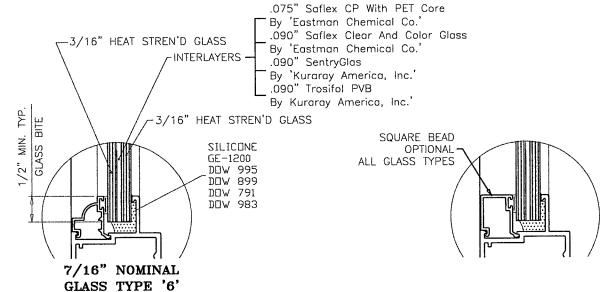
Manuel Perez, P.E. Product Control Examiner NOA No. 20-0519.06/





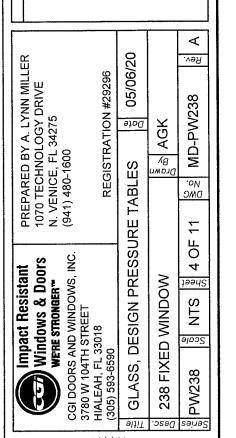


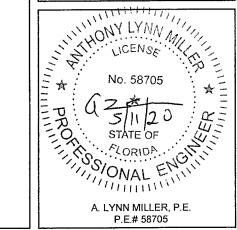






AK - 05/06/20





I	PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS												
	REFE	R TO SHEETS	5 7 THRU 12	FOR INSTAL	LATION DE	TAILS							
WINDOV	W DIMS.	GLASS '	TYPE '2'	GLASS '	TYPE '3'	GLASS 1	TYPE '6'						
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)						
19-1/8"		110.0	195.0	110.0	195.0	110.0	195.0						
26-1/2"	26"	110.0	166.2	110.0	195.0	110.0	195.0						
37"	26"	110.0	166.2	110.0	172.5	110.0	195.0						
53-1/8"		110.0	120.0	110.0	148.2	110.0	195.0						
19-1/8"		110.0	195.0	110.0	195.0	110.0	195.0						
26-1/2"	38-3/8"	110.0	163.0	110.0	167.7	110.0	195.0						
37"		110.0	116.8	110.0	151.9	101.8	180.5						
53-1/8"		84.1	84.1	108.8	118.7	108.8	118.7						
19-1/8"		110.0	185.7	110.0	187.6	110.0	195.0						
26-1/2"	50.5/01	110.0	131.2	110.0	148.7	110.0	195.0						
37"	50-5/8"	95.0	95.0	110.0	120.0	110.0	120.0						
53-1/8"		67.9	67.9	85.3	85.3	85.3	85.3						
19-1/8"		110.0	177.5	110.0	179.4	110.0	195.0						
26-1/2"	63"	102.7	102.7	110.0	120.0	110.0	120.0						
37"	0.5	70.5	70.5	102.1	111.3	102.1	111.3						
53-1/8"		57.7	57.7	81.3	81.3	81.3	81.3						
19-1/8"		110.0	120.0	110.0	174.6	110.0	195.0						
26-1/2"	74 1/4"	89.8	89.8	110.0	120.0	110.0	120.0						
37"	74-1/4"	56.9	56.9	90.0	90.0	90.0	90.0						
53-1/8"		-	_	-	-	70.0	70.0						

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS REFER TO SHEETS 7 THRU 12 FOR INSTALLATION DETAILS													
WINDOV	V DIMS.	GLASS	TYPE '2'	GLASS	TYPE '3'	GLASS	TYPE '6'						
WIDTH			INT. (-)	EXT. (+)	INT. (-)	EXT. (+) INT. (-)							
24"		EXT. (+) 110.0	180.0	110.0	181.9	110.0	195.0						
30"		110.0	144.0	110.0	166,3	110.0	195.0						
36"		110.0	120.0	110.0	161.7	104.7	185.5						
42"		110.0	120.0	110.0	120.0	110.0	120.0						
48"		104.8	104.8	110.0	120.0	110.0	120.0						
54"		88.3	88,3	110,0	120,0	110,0	120.0						
57"		81.9	81.9	108.3	118.1	108.3	118.1						
60"		76.9	76.9	105,9	115.5	105.9	115.5						
63"	36"	72.5	72.5	103.7	113.2	103.7	113.2						
66"		68,5	68,5	90.0	90,0	90.0	90.0						
69"		64.5	64.5	90.0	90.0	90.0	90,0						
72"		60.9	60.9	90.0	90.0	90.0	90.0						
75"		57.8	57.8	90.0	90.0	90.0	90.0						
78"		55.0	55,0	90.0	90.0	90.0	90.0						
81"		50.2	50.2	90.0	90.0	90.0	90.0						
84"		48.6	48.6	90,0	90.0	90.0	90.0						
87"		47.0	47.0	90.0	90.0	90.0	90,0						
24"		110.0	168.0	110.0	169.7	110.0	195.0						
30"		110.0	144.0	110.0	150.9	110.0	195.0						
36"		110.0	120.0	110.0	120.0	110.0	120.0						
42"		102.9	102.9	110.0	120.0	110.0	120.0						
48"		87.2	87.2	110.0	120.0	110.0	120.0						
54" 57"		76.9 72.2	76.9 72.2	103.9 90.0	113.4 90.0	103.9 90.0	90.0						
60"		67.9	67.9	90.0	90.0	90.0	90.0						
63"	42"	63.9	63.9	90.0	90.0	90.0	90.0						
66"	42"	60.2	60.2	90.0	90.0	90.0	90.0						
69"		55.3	55,3	90.0	90.0	90.0	90.0						
72"		52.0	52.0	90.0	90.0	90.0	90.0						
75"		49.1	49.1	90.0	90.0	90.0	90.0						
75"		46.7	46.7	88.4	88.4	90.0	90.0						
81 "		44 .8	44.8	85.4	85,4	90.0	90.0						
84"			- 11.0		-	90.0	90.0						
87"			-	_	-	70.0	70.0						
24"		110.0	160.0	110,0	161.7	110.0	195.0						
30"		110.0	120.0	110.0	141.1	108.2	191.8						
36"		104.8	104.8	110.0	120.0	110.0	120.0						
42"		87.2	87.2	110.0	120.0	110.0	120.0						
48"		77.3	77.3	110.0	120.0	110.0	120.0						
54"		69.8	69.8	90.0	90.0	90.0	90.0						
57"		66.3	66.3	90.0	90.0	90.0	90.0						
60"		65.0	65,0	90.0	90.0	90.0	90.0						
63"	48"	60.8	60.8	90.0	90.0	90.0	90.0						
66"		57.0	57.0	90.0	90.0	90.0	90,0						
69"		53.6	53.6	89.6	89.6	90.0	90.0						
72"		50.6	50,6	85.5	85.5	90.0	90.0						
75"			-		-	90.0	90.0						
78"			-	-	-	70.0	70.0						
81 "		<u> </u>	-	-	-	70.0	70.0						
84"			-	-	-	70.0	70.0						
87"		1100	140.0	110.0	166.0	70.0	70.0						
24"		110.0	142.2	110.0	155.9	110.0	195.0						
30" 36"		103.3 88.3	103.3 88.3	110.0	120 .0 120.0	110.0 110.0	120.0 120.0						
36" 42"		76.9	76.9	10.0	113.4	103.9	113.4						
42" 48"		69.8	69.8	90.0	90.0	90.0	90.0						
48" 54"		67.4	67,4	80.0	80.0	80.0	80.0						
57"		63.7	63.7	80.0	80.0	80.0	80.0						
60"		60,2	60,2	80.0	80.0	80.0	80.0						
63"	54"	57.1	57.1	80.0	80.0	80.0	80.0						
66"	J-T	27.1	27.1		- 00.0	80.0	80.0						
69"			_	-	-	70.0	70.0						
72"			-	-	_	70.0	70.0						
		-	-	-	-	70.0	70.0						
			-	-	-	70.0	70.0						
75" 78"													
75"		-	-	-	-	70.0	70.0						
75" 78"		-	-	-	-	70.0 70.0	70.0						

	REFER '	TO SHEETS	7 THRU 12	FOR INSTA	LLATION I	DETAILS		
WINDOV	W DIMS.	GLASS '	ГҮРЕ '2'	GLASS '	ГҮРЕ '3'	GLASS 7	ГҮРЕ '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-	
24"		110.0	120.0	110.0	151.6	110.0	195.0	
30"		91.2	91.2	110.0	120.0	110.0	120.0	
36"		76.9	76.9	105.9	115,5	105.9	115.5	
42"		67.9	67.9	90.0	90.0	90.0	90.0	
48"		65.0	65.0	90.0	90.0	90.0	90.0	
54"		60.2	60.2	80.0	80.0	80.0	80.0	
57"		57.6	57.6	75.8	75.8	75.8	75.8	
60" 63"	60"	<u> </u>	-		-	72.0 70.0	72.0 70.0	
66"	00	<u> </u>	-			70.0	70.0	
69"			-	_	-	70.0	70.0	
72"			-		_	70,0	70.0	
75"		 	-	-		70,0	70.0	
78"		-	-			70.0	70.0	
81"		-	-	-	-	70.0	70.0	
84"		-	-	-	-	70.0	70.0	
87"		-	-	-	-	50.0	50.0	
24"		110.0	119.6	110.0	120.0	110.0	120.0	
30"		81.8	81.8	110.0	120.0	110.0	120.0	
36"		68.5	68.5	90.0	90.0	90.0	90.0	
42"		60.2	60.2	90.0	90.0	90.0	90.0	
48"		57.0	57.0	90.0	90.0	90.0	90.0	
54"		-	-	-	-	80.0	80.0	
57"			~	-		70.0	70.0	
60"	66"	<u> </u>	<u> </u>	-	-	70.0	70.0	
63" 66"	00	-	-		-	68.6 65.5	68.6 65.5	
69"		- -	-	-	-	65.5	65.5	
72"				-	-	65,5	65.5	
75"		- -	-			65.5	65.5	
78"				 	-	50.0	50.0	
81 "		-	-	-	-	50.0	50.0	
84"		-	-	-	-	50.0	50.0	
87"			-	-	-	50.0	50.0	
24"		110.0	111.5	110.0	120.0	110.0	120.0	
30"		77.0	77.0	110.0	120.0	110.0	120.0	
36"		60.9	60.9	90.0	90,0	90.0	90.0	
42"		52.0	52.0	90.0	90.0	90.0	90.0	
48"		50,6	50.6	85.5	85.5	90,0	90.0	
54"			-	-	-	70.0	70,0	
57"		<u> </u>	-	-	-	70.0	70.0	
60"		ļ <u>-</u>		-	-	70.0	70,0	
63"	72"		-			68.6	68.6	
66"		-		-	-	65.5	65.5	
69" 72"					-	62.6 50.0	62.6 50.0	
75"		-	-		-	50.0	50.0	
78"			_	-	-	50.0	50.0	
81 "		-	-	-	-	50.0	50.0	
84"		-	-	-	-	50.0	50.0	
87"		-	-	-	-	50.0	50.0	
24"		108.1	108.1	110.0	120.0	110.0	120.0	
30"		70.2	70.2	110.0	120.0	110.0	120.0	
36"		55.0	55.0	90.0	90.0	90.0	90.0	
42"		46.7	46.7	88.4	88.4	90.0	90.0	
48"		-	-	-	-	70.0	70.0	
54"		-	-	-	-	70.0	70.0	
57"		_	-	-	-	70.0	70.0	
60"	78"		-	-		70.0	70.0	
63"		-	-	-	-	68.6	68.6	
66"		-		-	-	50.0	50.0	
69" 72"		-	-	-	-	50.0 50.0	50.0 50.0	
		-	-	-		50.0	50.0	
75"		, -			-	1 20.0	50.0	
75" 78"			-	-	-	50.0	50.0	

WINDO	W DIMS.	GLASS	TYPE '2'	GLASS '	TYPE '3'	GLASS	TYPE '6'
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT, (-)	EXT. (+)	INT. (-)
24"		110.0	114.4	110.0	120.0	110.0	120.0
30"		65.7	65.7	90.0	90,0	90.0	90.0
36"		48.6	48.6	90.0	90.0	90.0	90.0
42"		-	-	-	-	90.0	90,0
48"		-	-	-	-	70.0	70.0
54"		-	-	-	-	70.0	70.0
57"	84"	-	-	-	-	70.0	70.0
60"		-	-	-	-	70,0	70,0
63"		-	-	-	-	50.0	50.0
66"		_	-	-	-	50.0	50.0
69"			-	-	-	50.0	50.0
72"		-	-	-	-	50.0	50.0
75"		-	-	-	-	50.0	50.0
24"		88.6	88.6	110.0	120.0	110.0	120,0
30"		57.9	57.9	90.0	90.0	90.0	90,0
36"		43.0	43.0	90.0	90.0	90.0	90.0
42"						70.0	70.0
48"		_	-		-	70.0	70.0
54"	96"			-	· -	50.0	50.0
57"			 	 	-	50,0	50.0
60"		-		 _		50.0	50,0
63"			-	 _	-	50.0	50.0
66"			-	 	 	50.0	50.0
24"		70.4	70,4	90,0	90.0	90.0	90.0
30"		56.4	56.4	90.0	90.0	90.0	90.0
36"		-	-		-	70.0	70.0
42"		-			-	70.0	70.0
48"	108"				<u> </u>	50,0	50,0
54"		_	-	-	-	50.0	50.0
57"			 	_	_	50,0	50.0
60"		-	 	-	_	50.0	50.0
24"		59.5	59.5	90.0	90.0	90,0	90.0
30"	1	-	-	-	_	90.0	90,0
36"	l	-	-	 -	-	70.0	70.0
42"	120"	-	-	-	-	70.0	70.0
48"	ĺ	-	-	 	-	50.0	50.0
54"		-	-	-	-	50.0	50.0
24"	1	46.9	46.9	90.0	90.0	90.0	90.0
30"		-	-	-	-	70.0	70.0
36"	132"	-		-	-	70.0	70.0
42"		-	-	-	-	50.0	50.0
48"		-	 	-	-	50.0	50.0
24"	 	41.3	41.3	90.0	90.0	90.0	90.0
30"		-	-	-	-	70.0	70.0
36"	144"	-	-	-		50.0	50.0
42"		_	-	-	-	50.0	50.0
24"		-	-	-	-	70.0	70.0
30"	156"	-	-	-	-	70.0	70.0
36"		-	 	 -	<u> </u>	50.0	50.0

REFER	io sueris	/ HINO 12	FOR INS IA	LLATION	PERMIN		
V DIMS.	GLASS '	ГҮРЕ '2'	GLASS 1	ГҮРЕ '3'	GLASS '	ГҮРЕ '6'	
HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT, (-)	EXT. (+)	INT. (-)	
	110.0	114.4	110.0	120.0	110.0	120.0	
	65.7	65.7	90.0	90,0	90.0	90.0	
	48.6	48.6	90.0	90.0	90.0	90.0	
	-	-	-	-	90.0	90,0	
	-	-	-	-	70.0	70.0	
	-	-	-	-	70.0	70.0	NOTE:
84"	-	-	-	-	70.0	70.0	LOAD AREA LIMITS
	-	-	-	1	70.0	70,0	FOR $+110$, -195 PSF = 10.0 SQ. FT.
		-	-	-	50.0	50,0	+110, -120 PSF = 16.3 SQ. FT.
	-	-	-	-	50.0	50.0	+90, -90 PSF = 24.0 SQ. FT.
	-	-	-	-	50.0	50.0	+90, -90 PSF = 24.0 SQ. FI.
	-	-	-	-	50.0	50.0	+70, -70 PSF = 35.0 SQ. FT.
	-	*	-	-	50.0	50.0	+50, -50 PSF = 45.0 SQ. FT.
	88.6	88.6	110.0	120.0	110.0	120,0	
	57.9	57.9	90.0	90.0	90.0	90,0	
	43.0	43.0	90,0	90.0	90,0	90.0	
	-		-	-	70.0	70.0	
96"	-	-	-		70.0	70.0	
90	-	-	-	-	50.0	50.0	
	-	-	-	-	50.0	50.0	
	-	-	-	-	50.0	50,0	
	-	-	-	-	50.0	50.0	
	-	-	-	-	50.0	50.0	
	70.4	70.4	90.0	90.0	90.0	90.0	WDW. WIDTH,
	56.4	56.4	90.0	90.0	90.0	90.0	
	-	-	-	-	70.0	70.0	
108"	-	-		-	70.0	70.0	
100	-	-	-	-	50.0	50,0	
	-	-	-	-	50.0	50.0	LENGTH LENGTH
	-	-	-	-	50.0	50,0	
	-	-	-	-	50.0	50.0	
	59.5	59.5	90.0	90.0	90.0	90.0	MINDON
	-	-	-		90.0	90,0	<u> </u>
120"	-	•	-	-	70.0	70.0]
120	-	-	-	-	70.0	70.0	>
	_	~	-	-	50.0	50.0	V Lancata and Control of the Control
	-	-		_	50.0	50.0	

WINDOW LENGTH WIDTH

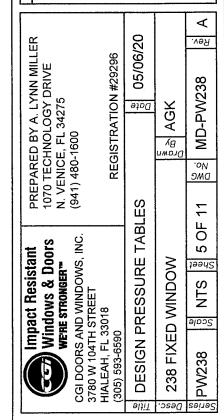
NOTE: WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

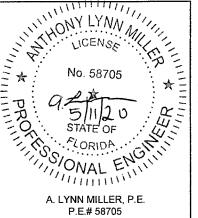
NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).

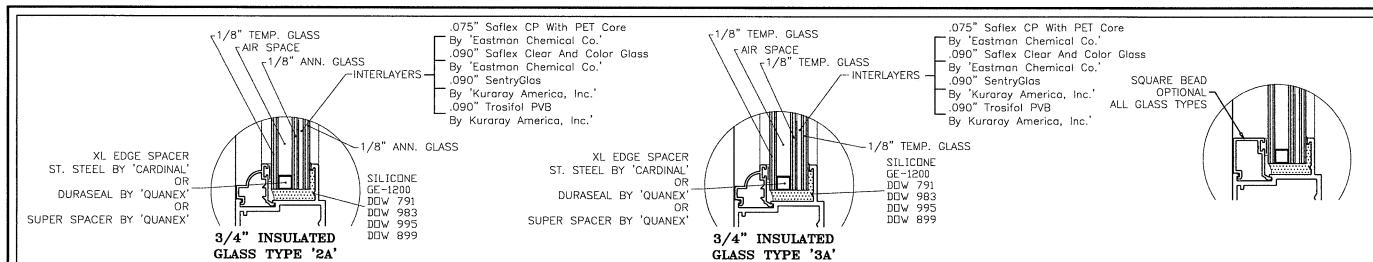
PRODUCT REVISED as complying with the Florida Building Code NOA-No. Expiration Date: 10/26/2023

By: Manuel Perez Miami-Dade Product Control

A) NO CHANGES THIS SHEET. AK - 05/06/20







PERFORMANCE VALUES OF IMPACT RÉSISTANT W	INDOWS
REFER TO SHEETS 7 THRU 12 FOR INSTALLATION DE	TAILS

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS REFER TO SHEETS 7 THRU 12 FOR INSTALLATION DETAILS												
WINDO	W DIMS.	GLASS T	YPE '2A'	GLASS 7	YPE '3A'							
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)							
24"		110.0	180.0	110.0	180.0							
30"		110.0	144.0	110.0	144.0							
36"		110.0	120,0	110.0	120.0							
42"		110.0	120.0	110.0	120.0							
48"		110.0	111.3	110.0	120.0							
54"		93.8	93.8	110.0	120.0							
57"		87.0	87.0	110.0	116.9							
60"		81.7	81.7	120.0	114.3							
63"	36"	77.0	77.0	120.0	112.0							
66"		72.7	72.7	90.0	90.0							
69"		68.5	68.5	90.0	90.0							
72"		64.7	64.7	90.0	90.0							
75"		61.4	61.4	90.0	90.0							
78"		58.4	58.4	90.0	90.0							
81"		53.4	53.4	90.0	90.0							
84"		51.6	51.6	90.0	90.0							
87"		49.9	49.9 49.9 90,0									
24"		110.0	168.0	110.0	168.0							
30"		110.0	144.0	110.0	144.0							
36"		110.0	120.0	110.0	120.0							
42"		102.9	102.9	96.9	102.9							
48"		92.7	92.7	96.9	102.9							
54"		81.7	81.7	96.9	102.9							
57"		76.7	76.7	90.0	90.0							
60"	42"	72.1	72.1	90.0	90.0							
63"		67.9	67.9	90.0	90.0							
66"		63.9	63.9	90.0	90.0							
69"		58.8	58.8 58.8 90.0		90.0							
72"		55.2	55.2	90.0	90.0							
75"		52.2	52.2	90.0	90.0							
78"		49.6	49.6	90.0	90.0							
81 "		47.6	47.6	90.0	90.0							
24"		110.0	160.0	110.0	160.0							
30"		110.0	120.0	110.0	120.0							
36"	[110.0	111.3	110.0	120.0							
42"	ļ	92.7	92.7	96.9	102.9							
48"		82.1	82,1	84.8	90.0							
54"	48"	74.2	74.2	90.0	90.0							
57"	.,	70.4	70.4	90.0	90.0							
60"	j	69.0	69.0	90.0	90.0							
63"		64.6	64.6	90.0	90.0							
66"		60.5	60.5	90.0	90.0							
69"		57.0	57.0	90.0	90.0							
72"		53.7	53.7	90.0	90.0							

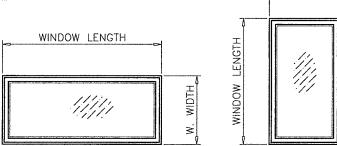
PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
REFER TO SHEETS 7 THRU 12 FOR INSTALLATION DETAILS

WINDO	W DIMS.	GLASS T	YPE '2A'	GLASS TYPE '3A'				
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)			
24"		110.0	151.0	110.0	154.3			
30"		109.7	109.7	110.0	120.0			
36"		93.8	93.8	110.0	120.0			
42"		81.7	81.7	96.9	102.9			
48"	54"	74.2	74.2	90.0	90.0			
54"		71.6	71.6	80.0	80.0			
57"		67.6	67.6	80.0	80.0			
60"		64.0	64.0	80.0	80.0			
63"		60.6	60.6	80.0	80.0			
24"	· · · · · · · · · · · · · · · · · · ·	110.0	120.0	110.0	120.0			
30"		96.9	96.9	110.0	120.0			
36"		81.7	81.7	110.0	114.3			
42"	60"	72.1	72.1	90.0	90,0			
48"		69.0	69.0	90.0	90.0			
54"		64.0	64.0	80.0	80.0			
57"		61.2	61.2	75.8	75.8			
24"		110.0	120.0	110.0	120.0			
30"		86.9	86.9	110.0	120.0			
36"	66"	72.7	72.7	90.0	90.0			
42"		63.9	63.9	90.0	90.0			
48"		60.5	60.5	90.0	90.0			
24"		110.0	118.4	110.0	120.0			
30"		81.8	81.8	110.0	120.0			
36"	72"	64.7	64.7	90.0	90.0			
42"		55.2	55.2	90.0	90.0			
48"		53.7	53.7	90.0	90.0			
24"		110.0	114.8	110.0	120.0			
30"	70"	74.6	74.6	110.0	118.9			
36"	78"	58.4	58.4	90.0	90.0			
42"		49.6	49.6	90.0	90.0			
24"		110.0	120.0	110.0	120.0			
30"	84"	69.8	69.8	90.0	90.0			
36"		51.6	51.6	90.0	90.0			
24"		94.1	94.1	110.0	120.0			
30"	96"	61.6	61.6	90.0	90.0			
36"		45.6	45.6	90.0	90.0			
24"	1000	74.8	74.8	90.0	90.0			
30"	108"	59.9	59.9	90.0	90.0			
24"	120"	63.2	63.2	90.0	90.0			
24"	132"	49.8	49.8	90.0	90.0			
24"	144"	43.8	43.8	90.0	90.0			

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS	
REFER TO SHEEIS 7 THRU 12 FOR INSTALLATION DETAILS	

WINDO	W DIMS.	GLASS T	YPE'2A'	GLASS TYPE'3A'			
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)		
19-1/8"	TILIGITI	110.0	195.0	110.0	195.0		
26-1/2"	26"	110.0	166.2	110.0	166.2		
37"		110,0	166,2	110.0	166.2		
53-1/8"		110.0	120,0	110.0	120.0		
19-1/8"	38-3/8"	110.0	195.0	110.0	195.0		
26-1/2"		110.0	163.0	110.0	163.0		
37"		110,0	116.8	110,0	116.8		
53-1/8"		89.3	89.3	110.0	112.6		
19-1/8"		110.0	185.7	110.0	185.7		
26-1/2"	50-5/8"	110.0	139.4	110.0	147.2		
37"	30-3/8	100.6	100,9	110.0	116.8		
53-1/8"		72.1	72.1	85.3	85.3		
19-1/8"		110.0	177.5	110.0	177.5		
26-1/2"	63"	109.1	109.1	110.0	120.0		
37"	0.5	74.9	74.9	110.0	110.2		
53-1/8"		61.3	61.3	81.3	81.3		
19-1/8"		110.0	120.0	110.0	120.0		
26-1/2"	74-1/4"	95.4	95.4	110.0	120.0		
37"		60.4	60.4	90,0	90.0		

NOTE: LOAD AREA LIMITS FOR +110, -195 PSF = 9.32 SQ. FT. +110, -120 PSF = 16.2 SQ. FT. +90, -90 PSF = 24.0 SQ. FT.



WDW. WIDTH

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

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).

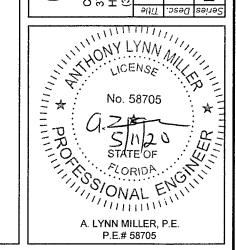
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0519.06 **Expiration Date: 10/26/2023**

By: Manuel Peres Miami-Dade Product Control

A) ADDED BACKBEDDING. AK - 05/06/20

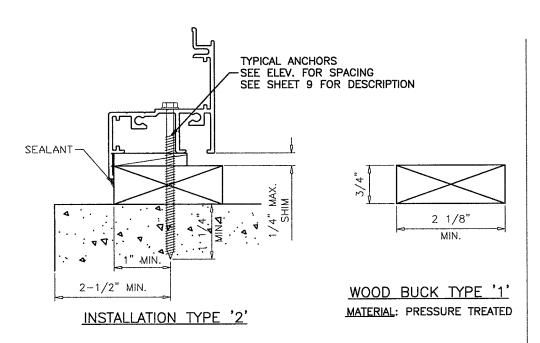
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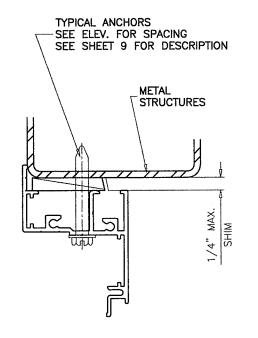
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 05/06/20 Rev. REGISTRATION #29296 MD-PW238 Date AGK)rawn By No. TABLES 7 6 OF Impact Resistant
Windows & Doors
WENE STRONGENT
OORS AND WINDOWS, INC.
W 104TH STREET
AH, FL 33018 DESIGN PRESSURE 238 FIXED WINDOW Sheet NTS Scale PW238



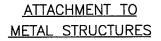
INSTALLATION CONDITIONS FLANGE FRAME (APPLIES TO ALL FOUR SIDES)

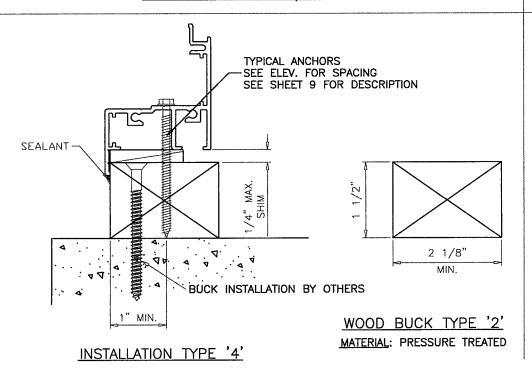
FOR ANCHOR PERFORMANCE VALUES SEE SHEETS 9

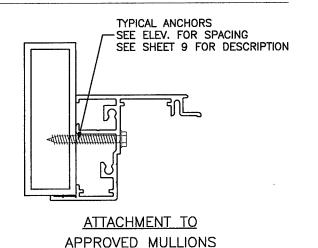




TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD

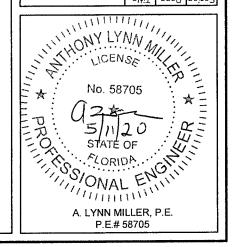






TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

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



PRODUCT REVISED

By: Manuel Peres

AK - 05/06/20

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

Impact Resistant
Windows & Doors
were stronger...
RS AND WINDOWS, INC.
04TH STREET
FL 33018

NOA-No.

as complying with the Florida Building Code

Expiration Date: 10/26/2023

Miami-Dade Product Control

A) NO CHANGES THIS SHEET.

05/06/20

INSTALLATION DETAILS

238 FIXED WINDOW

REGISTRATION #29296

20-0519.06

⋖

Rev.

MD-PW238

DWG No.

Я

/

Sheet

NTS

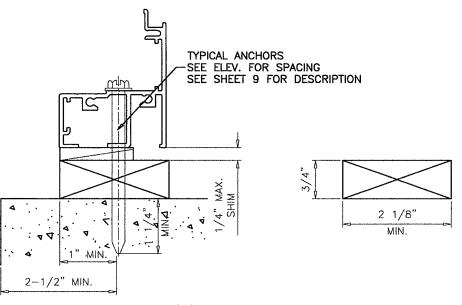
PW238

AGK

Drawn By

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

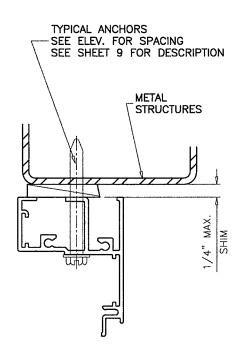
FOR ANCHOR PERFORMANCE VALUES SEE SHEETS 9



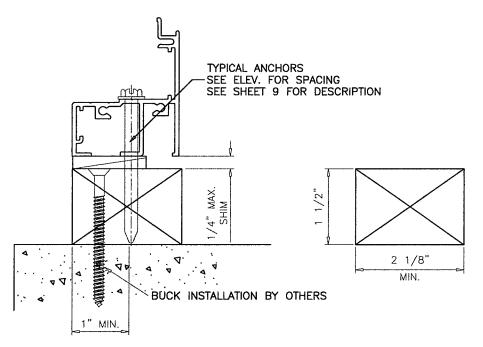
INSTALLATION TYPE '2'

WOOD BUCK TYPE '1'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

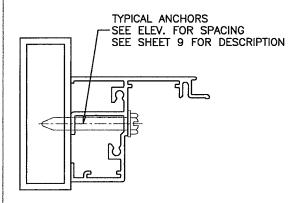


ATTACHMENT TO METAL STRUCTURES



INSTALLATION TYPE '4'

WOOD BUCK TYPE '2'
MATERIAL: PRESSURE TREATED



ATTACHMENT TO APPROVED MULLIONS

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

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

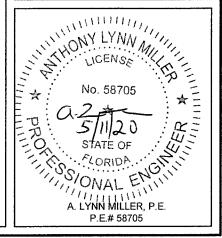
PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. <u>20-0519.06</u> Expiration Date: <u>10/26/2023</u>

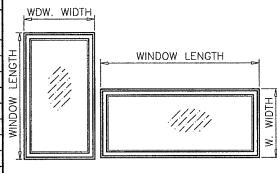
By: Manuel Perez
Miami-Dade Product Control

A) NO CHANGES THIS SHEET. AK - 05/06/20

⋖ 05/06/20 Rev. PREPARED BY A. LYNN MILLEI 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296 MD-PW238 AGK ΛB DWG Ю Mindows & Doors
Were stronger
SI DOORS AND WINDOWS, INC.
80 W 104TH STREET
ALEAH, FL 33018 INSTALLATION DETAILS ∞ 238 FIXED WINDOW Sheet NTS PW238 Series Desc. Title



INS	PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEETS 7 & 8 FOR DETAILS PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEETS 7 & 8 FOR DETAILS		N ANCHORS	PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEETS 7 & 8 FOR DETAILS			PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEETS 7 & 8 FOR DETAILS			PERF INST REFER TO		MI MINT						
	W DIMS.	EXT. (+)	1	W DIMS.	EXT. (+)		V DIMS.	EXT. (+)	WINDOV		EXT. (+)	WINDOV		EXT. (+)		W. WIDTI	7	
WIDTH 24"	HEIGHT	INT. (-) 195.0	WIDTH 24"	HEIGHT	INT. (-) 195.0	WIDTH 24"	HEIGHT	INT. (-) 195.0	WIDTH 24"	HEIGHT	INT. (-) 195.0	WIDTH 19-1/8"	HEIGHT	INT. (-) 195.0	1 7/1		7	
30"		195.0	30"		195.0	30"		195.0	30"		174.9	26-1/2"		195.0	품		WIN	DOW LENGTH
36"		195.0	36"		195.0	36"		179.3	36"		150.6	37"	26"	195.0	LENGT	1/2		
42"		195.0	42"		195.0	42"		162.7	42"	1001	133.5	53-1/8"		195.0				
48"		195.0	48"		181.5	48"		151.3	48"	108"	121.0	19-1/8"		195.0	i gilli	11		11150
54"		195.0	54"		191.2	54"		143,4	54"		111.5	26-1/2"	38-3/8"	195.0	WINDOW			1477.1
57"		195.0	57"		172.1	57"		140.5	57"		107.7	37"		195.0				
60"	36"	184.4	60"	54"	158.4	60"	72"	138.3	60"		104.2	53-1/8"		195.0	1 1			
63"	30	172.1	63" 66"	34	143,4	63" 66"	12	136.6 128	24" 30"		188.2	19-1/8" 26-1/2"		195.0	NOTE:			
69"		189.8	69"		153.7	69"		134.7	36"		132.9	37"	50-5/8"	195.0				IONS CAN BE OF LY AS SHOWN A
72"		179.3	72"		143.4	72"		134.4	42"	120"	117.3	53-1/8"		184.1				ZES ALLOWED.
75"		169.8	75"		134.4	75"		124,1	48"		105.9	19-1/8"		195.0	1			
78"		161.3	78"		126.5	78"		115.2	54"		97.1	26-1/2"	63"	195.0]			
81"		153.7	81"		119.5	81"		107.6	24"		193.6	37"	03	169.3]			
84"		146.7	84"		113.2	84"		100.8	30"		158.9	53-1/8"		144.0	1			
87"		168.3	87"		129.1	87"		113.9	36"	132"	135.9	19-1/8"		195.0	-			
24" 30"		195.0	24" 30"		195.0	24" 30"		195.0	42" 48"		119.6	26-1/2" 37"	74-1/4"	195.0	4			
36"		195.0 195.0	36"		195.0 184.4	36"		184.4 161.3	24"		195.0	53-1/8"		137.6	1			
42"		195.0	42"		170.2	42"		145.6	30"	1 4 4 11	162.1		AT ANTO	CHORS:	_			
48"		184.4	48"		161.3	48"		134.4	36"	144"	138.3							_
54"		195.0	54"		156.4	54"		126.5	42"		121.4	1/4" DI	A, KWIK-	-CON II BY 'H	<u>ILII</u> (Fi	u=163 K	SI, Fy=157 I	(SI)
57"		184.4	57"		155.3	57"		123.5	24"		181.5	1/4" DI/	A. ULTRA	CON BY 'ELCO	<u>)</u> (Fu=	:177 KSI,	Fy=155 KS	i)
60"		170.2	60"		154.9	60"	78"	121.0	30"	156"	148.3	INTO 2B	Y WOOD	BUCKS OR W	OOD S	STRUCTU	JRES	
63"	42"	158.0	63"	60"	140.8	63"		119.0	36"		126.3	1-1/2"	MIN. PE	NETRATION IN	ro woo	OD		
66"		147.5	66"		129.1	66"		117.3				TUDII 18		S INTO CONC.	OB M	AA CONID	v	
69" 72"		172.9	69" 72"		148.9	69" 72"		116.1						IBED INTO CONC.				
75"		153.7	75"		129.1	75"		114.7		n		1-1/4	MIIN. CIV	IDED INTO COL	NC. OR	(IVIASU	INIXI	
78"		145.6	78"		121.0	78"		114.6		L	<u> </u>			ONC. OR MAS				
81"		138.3	81"		113.9	81"		106.4		_	الم	1-3/4"	MIN. EM	IBED INTO CO	NC. OF	R FILLE	D BLOCKS	
84"		131.7	84"		107.6	24"		195.0				1/4" DI	A. ULTRA	CON+ BY 'DE	WALT' (ı	Fu=164	KSI, Fy=148	KSI)
87"		150.9	87"		122.3	30"		168.3		mm,		INTO 2B	Y WOOD	BUCKS OR W	OOD S	STRUCTU	JRES	
24"		195.0	24"		195.0	36"		146.7	M	3	ألآ	1-1/2"	MIN. PE	NETRATION IN	ro woo	OD		
30" 36"		195.0	30" 36"		182.2	42" 48"		131.7 121.0	[TUDII 10	טע פווכע	S INTO CONC.	OP M	AV CUVID	~	
42"		184.4	42"		147.5	54"		113.2						IBED INTO CONC.				
48"		181.5	48"		138.3	57"	84"	110.2			.	•				· WASO	INIVI	
54"		181.5	54"		132.4	60"		107.6						CONC. OR MAS				
57"		176.0	57"		130.4	63"		105.4		₩ <u>\</u>		1-1/4"	MIN. EM	IBED INTO COI	NC. OF	R MASO	NRY	
60"		161.3	60"		129.1	66"		103.5		, =) 제	#14 SMS	S OR SE	LF DRILLING S	SCREWS	S (Fu=74	KSI, Fy=57	KSI)
63"	48"	148.9	63"	66"	128.3	69"		102.0						E COUNTY APF				
66"		138.3	66" 69"		128.0 128	72" 75"		100.8 99.9		alm				UCTURES			(., -
72"		151.3	72"		128.0	24"		195.0	(C)	-	사			MIN. (Fy = 3)	KE KSI	MINI)		
75"		142.4	75"		125.7	30"		172.1			ا ا			3" THK. MIN. (1.)	
78"		134.4	78"		117.3	36"		148.9	<u> </u>		ال			ACT WITH ALUM				R PAINTED)
81"		127.4	81"		110.0	42"		132.8	H			TYPICAL						,
84"		121.0	84"		103.5	48"	96"	121.0	υ			•		AND MASONRY	′ = 2-	-1/2"	MIN.	
87"	<u> </u>	138.3	87"		117.3	54"		112.2						JCTURE = 1"		., –		
						57"		108.7		Ψ				UCTURE = 3/		1.		
NOTE:						60"		105.6				WOOD AT	HEAD, S	ILL OR JAMBS	SG = 0	0.55 MII		
	DLATION BE	TWEEN SIZES ALLO	WED.			66"		100.6						D, SILL OR JAN				· 0000 00
					····							C-90 HO	PLLOW/FIL	LED NORMAL W	LIGHI E	BLOCK A	AL DAMBS 1	m = 2000 PS
																		



BE ORIENTED OWN ABOVE. /ED.

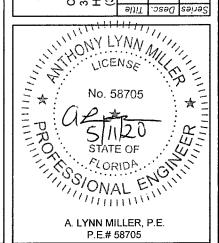
O PSI MIN.

PRODUCT REVISED
as complying with the Florida
Building Code NOA-No._ 20-0519.06 Expiration Date: 10/26/2023 By: Manuel Peres

A) ADDED ULTRACON+. AK - 05/06/20

Miami-Dade Product Control

⋖ PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 05/06/20 Rev. REGISTRATION #29296 MD-PW238 Date AGK Drawn By No. 9 OF 11 Mindows & Doors
Were stronger...
CGI DOORS AND WINDOWS, INC.
3780 W 104TH STREET
HALEAH, FL 33018
305) 593-6500 N Sheet 238 FIXED WINDOW ANCHOR TABLES Scale PW238



11		NCE VALUES	1	PERFORMANCE VALUES OF			PERFORMANCE VALUES OF			PERFORMANCE VALUES OF			PERFORMANCE VALUES OF								
ALUM BUCK INSTALLATION ANCHORS				ALUM BUCK INSTALLATION ANCHORS			ALUM BUCK INSTALLATION AND						ALLATION ANCHORS ANCHORS ANCHORS				ALLATION ANCHORS ANCHORS ANCHORS				
I WINDOW DIMES I		ANCHORS AT 17" O.C.	ANCHORS AT 10" O.C.	11 WINDY DW/111MS		1	RS ANCHORS WINDO		OW DIMS. ANCHORS AT 17" O.C.		ANCHORS AT 10" O.C.	WINDO	WINDOW DIMS.		ANCHORS AT 10" O.C.	WINDOW DIMS.		1 1	10" O.C.	1	
WIDTH	HEIGHT	EXT. (+)	EXT. (+)	WIDTH	HEIGHT	EXT. (+)	EXT. (+)	WIDTH	HEIGHT	EXT. (+)	EXT. (+)	WIDTH	HEIGHT	EXT. (+)	EXT. (+)	WIDTH	HEIGHT	1 1	(T. (+)		•]
	THEIGHT	INT. (-)	INT. (-)		HEIGHT	INT. (-)	INT. (-)		HEIGH	INT. (-)	INT. (-)		TIDIGITI	INT. (-)	INT. (-)	19-1/8"		L	IT. (-)		į
24" 30"		195.0 195.0	195.0 195.0	24" 30"		169.1 145.7	195.0 195.0	24" 30"		148.0	195.0 174.5	24" 30"		126.9 105.2	195.0 175.4	26-1/2"	201		195.0	PRODUCT REVISE	ED.
36"		195.0	195.0	36"		131.6	195.0	36" 42" 48" 54" 57" 60"		109.6	153.5	36" 42" 48"	96"	91.1	151.8	37" 53-1/8" 19-1/8" 26-1/2" 37"	38-3/8"		195.0	as complying with the	
42"	36"	148.0	195.0	42" 48" 54"	ļ	123.0	184.5		72"	99.5 92.5	139.3 129.5			81.2 74.0	135.3 123.3			163.4 195.0 195.0 195.0		519.06	
48" 54"		157.9 131.6	195.0 195.0			118.4 116.9	177.6 175.4			67.7	129.3	54"		68.6	114.4					Expiration Date: 10/2	26/2023
57"		121.4	182.2	57"		105.2	157.9			86.0	120.3	57"		66.5	110.8			173.9 195.0		By: Manuel Pere	2
60"		112.8 105.2	169.1 184.2	60" 63" 66"	54"	95.7 87.7	143.5 153.5			84.6	118.4 116.9 115.9	60" 63"		64.6 62.9	107.6 104.9	53-1/8" 19-1/8"		1	195.0	Miami-Dade Product C	Control
66"	30	123.3	172.7		34	101.2	141.7	66"	12.	82.8		66"		61.5	104.9	26-1/2"	50-5/8"		195.0		
69"	i	116.1	162.5	69"		94.0	131.6	69"		82.4	115.3	24"	108"	129.5	195.0	37"	30-378		179.3	A) NO CHANGES THIS	S SHEET.
72"		109.6	153.5 166.2	72" 75" 78"	į.	67.7 82.2	122.8	72" 75" 78"		82.2 75.9	115.1 115.1	30" 36"		106.9 92.1	168.1 144.7	53-1/8"	6211		166.3 195.0	AK - 05/06/20	
75" 78"		103.9 98.7	157.9			77.4	131.6			70.5	113.1	42"		81.7	128.3	26-1/2"			195.0		
81"		112.8	150.3	81"		67.7	116.9	81"		78.9	105.2	48"		84.0	116.3	37"	63"	103.6 18	181.2		
84" 87"	1	107.6 103.0	161.5 154.4	84" 87"		63.1 78.9	124.6 118.4	84" 87"		74.0 69.6	111.0 104.5	54" 57"		68.2 65.8	107.2 103.5	53-1/8" 19-1/8"			154.1 195.0		
24"		177.6	195.0	24"		148.0	195.0	24"		134.5	195.0	60"		63.8	100.2	26-1/2"	74-1/4"		195.0		▼
30"		157.9	195.0	30"		126.3	189.4	30"		112.8	180.4	24"		131.6	195.0	37"	/4-1/4		165.3	Y A. LYNN MILLER LOGY DRIVE .34275) RATION #29296	Rev.
36" 42"		148.0 145.0	195.0 193.3	36" 42" 48"		112.8 104.1	169.1 156.1	36" 42"	78"	98.7 89.0	157.9 142.4	30" 36"	120"	108.3 92.9	162.4 139.3	53-1/8"	<u> </u>	84.1	134.6	N MILL RIVE #29296 05/06	
42 48"	42"	145.0	187.9			98.7	148.0	42"		82.2	131.6	42"		82.0	123.0					NN S S S S S S S S S S S S S S S S S S	238
54"		123.0	184.5	54"	54" 57" 60" 63" 66" 69" 72"	95.7	143.5	142.4 57" 142.1 60" 142.1 63" 138.1 66" 127.5 69" 118.4 72" 126.3 75" 118.4 78"		77.4	123.8	48"		74.0	111.0					10 Bate	MD-PW2
57" 60"		112.8 104.1	169.1 156.1	1		95.0 94.7				75.5 74.0	120.9 116.4	54" 24"		67.9 133.2	101.8 192.4					ARED BY A. LYI FECHNOLOGY I NICE, FL 34275 480-1600 REGISTRATION	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>
63"		96.7	169.1			86.1	142.1			72.7	116.4	30"		109.3	157.9					PREPARED BY, 1070 TECHNOLC N. VENICE, FL 3 (941) 480-1600 REGISTRA	Drawn Sy
66"		112.8	157.9	i		94.7	138.1			71.8	114.8	36"	132"	93.5	135.0					ARE WIC A	No.
69"		105.7 99.5	148.0	1 1		91.1 84.6				71.0	113.6 112.8	42" 48"		82.3 74.0	118.9 106.9					(YEP 770 770 770 770 741)	
72" 75"		94.0	150.3	75"		78.9	126.3				70.3	112.3	24"		121.1	195.0				a ⊖ z ø	1
78"		89.0	142.4	78"		74.0	118.4					70.1	112.1	30"	144"	99.1	165.2				
81" 84"		101.5 96.7	135.3 145.0	81" 84"		83.6 78.9	111.4	81" 24"		70.1 148.0	104.1 195.0	36" 42"		84.6 84.3	141.0 123.8	T.				tant Joors Joors	6
87"		92.3	138.4	87"		74.8	112.2	30"		123.5	185.3	24"		123.3	195.0			n			Sheet
24"		195.0	195.0	24"		164.4	195.0	36"		107.6	161.5	30"	156"	100.8	161.2	\[\frac{\lambda}{\sigma} = \frac{\lambda}{\sigma} \]	السير	#14 SMS	OM ENDS	Impact Resis Windows & I Wene stronger S and window 4TH STREET FL 33018 5590 NUM BUCK	WINDO\ STN
30" 36"		172.2 157.9	195.0 195.0	30" 36"		139.3 123.3	195.0 172.7	42" 48"		96.7 88.6	145.0 133.2	36"		85.8	137.3	00	(MILITA	17" O.C.	MAX.	Impact R Windows Were Stro S AND WIN STH STREE TL 33018 590	$\left \frac{1}{2} \right ^2$
42"		145.0	187.9	42"		112.8	157.9	54"		63.1	124.6				X K	1,505	<u>-</u>]	AT HEAD,	/SILL/JAMB	Ppac indi	Scale
48"		148.0	185.0	48"		105.7	148.0	57"	84"	80.8	121.3]			74" MAX. SHIMS			싔		Wind Wind Wind Were & Were & OORS AND W 104TH ST AH, FL 3301-5590 UMINUM	FIXED 38
54" 57"		118.4 107.6	177.6 161.5	54" 57"		101.2 99.7	141.7 139.6	60" 63"		78.9 77.3	118.4				1/4 S	ا الحا			MAX.	EAH 200	238 FI) PW238
60"		98.7	148.0	60"		94.7	138.1	66"		76.0	114.0				<u> </u>	<u> </u>			× ¥	AL 3355)	23 P
63"	48"	91.1	159.4	63"	66"	85.9	137.3	69"		74.9	112.3				4		3 THI		1/4" SHI	0 % T () 91/17	Series Desc.
66" 69"		105.7 98.7	148.0 138.1	66" 69"		97.9 89.7	137.0 125.6	72" 75"		74.0	111.0 110.0				ı	堲	─ \\\\\\		V	NY LYNA	11/1/2
72"		92.5	129.5	72" 75" 78"		82.8	115.9		 -	2.500		.845 				艮			4	LICENSE	Milly
75"		87.1	139.3 131.6		76.9	123.0		845 6			l l	065		11 4 4	sus			,		19=	
78" 81"			131.6	78" 81"		71.8 80.7	114.8 107.6	.065⊸	-> -> -> .592		\\		<u> </u>	1-1/2"	#14 SM WIN. WOOD EMBE	MBED		 		No. 58705	, ; ===================================
84"		88.8	133.2	84"		76.0	114.0	Ā	#= -] 1	4	1 125	AT 6	FROM ENDS 17" O.C.	AND				1 = n 12km	: ^=
87"	L	84.6	126.9	87"		71.8	107.6	.562					1.125	A	T HEAD/SILL/	JAMB		<u> </u>		1 = 3 5/1/2	O WE
NOTE:	IOTE: VTERPOLATION BETWEEN SIZES ALLOWED.								1.43	36 📥 🕯	F					1'	MIN.	_		SIAIE OF	W.
HALFIN OFWI										.125		.903				1. 10T	LLATION	TVDE 'c'		ORIDA.	NOIL
ALUMINUM BUCK FRAMING DETAIL								* * * * * * * * * * * * * * * * * * * *		A 5=: 5 :		5			·		TYPE '5'		WONAL E	2111,	
REFER TO SHEETS 4 THRU 6 FOR WINDOW CAPACITIES USE LOWER APPLICABLE VALUES.						S		UM BUCK		/ LL OO V LLI V			2BY WOOD BUCK OR WOOD STRUCTURES TYPICAL INSTALLATION DETAIL] [
							600	63—T6	60	63-T6				TITIOAL	IIVO IALL	ATION DEIAIL		A. LYNN MILLER, P.E.# 58705			

F	PERFORMA	NCE VALUES	OF	F	ERFORMA	NCE VALUES	OF	PERFORMANCE VALUES OF					
ALUM	BUCK INST	ALLATION A	NCHORS	ALUM	BUCK INST	ALLATION A	NCHORS	ALUM BUCK INSTALLATION ANCHORS					
		ANCHORS	ANCHORS				ANCHORS				ANCHOR		
WINDO	W DIMS.	AT 17" O.C.	AT 10" O.C.	WINDOW DIMS.		AT 17" O.C. AT 10" O.C.		WINDOV	W DIMS.	ANCHORS AT 17" O.C.	ANCHOR AT 10" O.0		
				ļ							1		
WIDTH	HEIGHT	EXT. (+)	EXT. (+)	WIDTH	HEIGHT	EXT. (+)	EXT. (+)	WIDTH	HEIGHT	EXT. (+)	EXT. (+)		
		INT. (-)	INT. (-)			INT. (-)	INT. (-)		· · · · · · · · · · · · · · · · · · ·	INT. (-)	INT. (-)		
24"		159.0	195.0	24"		121.1	181.7	24"		106.0	148.4		
30"		145.4	193.8	30"		104.4	156.6	30"		89.3	125.0		
36"		141.3	188.4	36"		94.2	141.3	36"		78.5	109.9		
42"		106.0	141.3	42"		88.1	132.2	42"		71.3	99.8		
48"		113.1	141.3	48"		84.8	127.2	48"		66.3	92.8		
54"		94.2	141.3	.54"		83.8	125.6	54"		62.8	87.9		
57"		87.0	130.5	57"		75.4	113.1	57"		61.6	86.2		
60"		80.8	121.1	60"		68.5	102.8	60"		60.6	84.8		
63"	36"	75.4	131.9	63"	54"	62.8	109.9	63"	72"	59.8	83.8		
66"		88.3	123.7	66"		72.5	101.5	66"		59.3	83.0		
69"		83.1	116.4	69"		67.3	94.2	69"		59.0	82.6		
72"		78.5	109.9	72"	!	62.8	87.9	72"		58.9	82.4		
75"		74.4	119.0	75"		58.9	94.2	75"		54.4	82.4		
78"		70.7	113.1	78"		55.4	88.7	78" 81"		50.5	80.8		
81"		80.8	107.7	81"		62.8	83.8			56.5	75.4		
84"		77.1	115.6	84"	:	59.5	89.3	84"		53.0	79.5		
87"		73.7	110.5	87"		56.5	84.8	87"		49.9	74.8		
24"		127.2	169.6	24"		106.0	159.0	24"		96.4	154.2		
30"		113.1	150.8	30"		90.5	135.7	30"		80.8	129.2		
36"		106.0	141.3	36"		80.8	121.1	36"		70.7	113.1		
42"		103.8	138.4	42"		74.5	111.8	42"		63.8	102.0		
48"		103.8	134.6	48"		70.7	106.0	48"		58.9	94.2		
54"		88.1	132.2	54"		68.5	102.8	54"		55.4	88.7		
57"		80.8	121.1	57"		68.0	102.0	57"		54.1	86.6		
60"		74.5	111.8	60"		67.8	101.8	60"	78"	53.0	84.8		
63"	42"	69.2	121.1	63"	60"	61.7	101.8	63"		52.1	83.4		
66"		80.8	113.1	66"		67.8	98.9	66"		51.4	82.2		
69"		75.7	106.0	69"		65.2	91.3	69"		50.9	81.4		
72"		• 71.3	99.8	72"		60.6	84.8	72"		50.5	80.8		
75"		67.3	107.7	75"		56.5	90.5	75"		50.3	80.4		
78"		63.8	102.0	78"		53.0	84.8	78"		50.2	80.3		
81"		72.7	96.9	81"		59.9	79.8	81"		50.2	74.5		
84"		69.2	103.8	84"		56.5	84.8	24"	*******	106.0	159.0		
87"		66.1	99.1	87"		53.6	80.3	30"		88.5	132.7		
24"		141.3	176.7	24"		117.8	164.9	36"		77.1	115.6		
30"		123.3	154.2	30"		99.8	139.7	42"	İ	69.2	103.8		
36"		113.1	141,3	36"		88.3	123.7	48"		63.6	95.4		
42"		103.8	134.6	42"		80.8	113.1	54"		59.5	89.3		
48"		106.0	132.5	48"		75.7	106.0	57"	84"	57.9	86.9		
54"		84.8	127.2	54"		72.5	101.5	60"		56.5	84.8		
57"		77.1	115.6	57"		71.4	100.0	63"		55.4	83.1		
60"		70.7	106.0	60"		67.8	98.9	66"		54.4	81.6		
63"	48"	65.2	114.2	63"	66"	61.5	98.3	69"		53.6	80.4		
66"		75.7	106.0	66"		70.1	98.1	72"		53.0	79.5		
69"		70.7	98.9	69"		64.2	89.9	75"		52.5	78.8		
72"		66;3	92.8	72"		59.3	83.0	<u> </u>					
75"		62.4	99.8	75"		55.1	88.1						
78"		58.9	94.2	78"		51.4	82.2						
81"		66.9	89.3	81"		57.8	77.1						
84"		63.6	95.4	84"		54.4	81.6						
87"		60.6	90.9	87"		51.4	77.1						

PERFORMANCE VALUES OF PERFORMANCE VALUES OF ALUM BUCK INSTALLATION ANCHORS **ALUM BUCK INSTALLATION ANCHORS** ANCHORS ANCHORS ANCHORS ANCHORS | ANCHORS WINDOW DIMS. WINDOW DIMS. AT 10" O.C. AT 17" O.C. AT 10" O.C. AT 17" O.C. AT 10" O.C EXT. (+) EXT. (+) EXT. (+) EXT. (+) WIDTH HEIGHT WIDTH HEIGHT INT. (-) INT. (-) INT. (-) INT. (-) 24" 90.9 151.4 19-1/8" 194.2 195.0 30" 75.4 125.6 26-1/2" 173.9 195.0 36" 108.7 37" 195.0 65.2 146.8 175.6 42" 58.1 96.9 53-1/8" 117.0 48" 53.0 88.3 19-1/8" 166.2 195.0 96" 54" 49.2 81.9 137.6 183.4 26-1/2" 38-3/8" 79.3 124.5 57" 47.6 37" 166.1 46.3 77.1 53-1/8" 93.8 140.6 60" 75.1 19-1/8 155.5 194.4 63" 45.1 66" 44.1 73.4 26-1/2" 123.3 154.1 50-5/8" 24" 92.8 145.8 37" 102.7 128.4 30" 76.6 120.4 53-1/8" 86.7 119.1 36" 195.0 103.6 119.5 66.0 19-1/8 42" 92.6 162.1 58.5 91.9 26-1/2" 108" 48" 53.0 83.3 37" 74.2 129.8 54" 48.9 76.8 53-1/8" 63.1 110.4 57" 47.2 74.1 19-1/8 123.4 195.0 71.8 94,4 60" 45.7 151.1 26-1/2" 74-1/4" 74.0 24" 141.3 37" 118.4 94.2 53-1/8" 60.3 30" 77.5 116.3 96.4

99.8

88.1

79.5

72.9

137.8

113.1

96.7

85.1

76.6

144.5

118.3

101.0

88.6

141.3

115.5

98.3

66.5

58.7

53.0

48.6

95.4

78.3

66.9

58.9

53.0

86.7

71.0

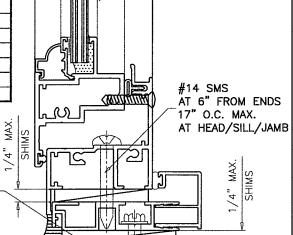
60.6

53.2

88.3

72.2

61.4



1/4" DIA. KWIK-CON/ULTRACON/ULTRACON+ 1-1/4" MIN. CONC. EMBED 1-3/4" MIN. FILLED BLOCK EMBED AT 6" FROM ENDS AND 17" O.C. MAX. (10" O.C. ALT.) AT HEAD/SILL/JAMB

INSTALLATION TYPE '6'

2 1/2" MIN. EDGE DIST.

ALUMINUM BUCK FRAMING DETAIL

36"

42"

48"

54"

24"

30"

36"

42"

48"

24"

30"

36"

42"

24"

30"

36"

120"

132"

144"

156"

REFER TO SHEETS 4 THRU 6 FOR WINDOW CAPACITIES USE LOWER APPLICABLE VALUES.

TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0519.06

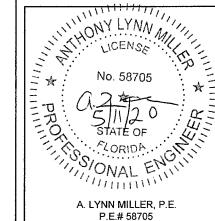
Expiration Date: 10/26/2023 By: Manuel Peres

Miami-Dade Product Control

A) ADDED ULTRACON+. AK - 05/06/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 05/06/20 Rev. MD-PW238 REGISTRATION Date AGK)rawn By DWG. OF Impact Resistant
Windows & Doors
Were Stronger...
RS AND WINDOWS, INC.
04TH STREET
FL 33018 WINDOW Sheet ALUMINUM BUCK NTS 238 FIXED \ PW238

Series Desc. Title



INTERPOLATION BETWEEN SIZES ALLOWED.