

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

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

NOTICE OF ACCEPTANCE (NOA)

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 Designer" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W01-83**, titled "238 Designer Fixed Window", sheets 1 through 8 of 8, dated 04/27/20, with revision **A** dated 04/24/20, 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# 17-0926.17 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. 20-0519.05 Expiration Date: October 20, 2023 Approval Date: September 24, 2020

age 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. **DRAWINGS**

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No.09-0127.17)
- Drawing No. W01-83, titled "Series-238 Designer Fixed Window", sheets 1 through 8 2. of 8, dated 12/27/01, with revision G dated 09/15/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. (Submitted under NOA No.17-0926.17)

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.15-0512.15)

- 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.15-0512.15)

- 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.15-0512.15)

Product Control Examiner NOA No. 20-0519.05

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- B. TESTS (CONTINUED)
 - 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, 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 aluminum fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0080-0105-08**, dated 01/08/08, signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No. 09-0303.01)

- 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) 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 an aluminum fixed window, prepared by Hurricane Test Laboratory, Inc., Test Reports No.

HTL-0080-0303-96 and HTL-0080-0502-97, dated 03/05/96 and 05/02/97, both signed and sealed by Timothy S. Marshall, P.E.

(Submitted under NOA No 96-0603.07)

- **6.** 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. **ATLSF-1209.01-94**, dated 12/09/94 to 12/14/94, signed and sealed by Gerard B. Sullivan, P.E.

(Submitted under NOA No. 96-0603.07)

- 7. Test reports on: 1) Large Missile Impact Test, per SFBC, PA 202-94
 - 2) Cyclic Wind Pressure Loading, per SFBC, PA 202-94 along with marked-up drawings and installation diagram of an aluminum project out window, prepared by Fenestration Testing Laboratory, Inc. Report No. **FTL-1018**, dated 09/26/94, signed and sealed by Yamil Kurí, P.E.

(Submitted under NOA No. 96-0603.07)

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0519.05

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** 5th **Edition (2014)**, dated 07/16/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

(Submitted under NOA No. 14-0903.07)

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. 16-1117.01 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Interlayers" dated 01/19/17, expiring on 07/08/19.
- 2. 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), and 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.17-0926.17)
- 2. Laboratory compliance letters for Test Report No. HTL-0080-0105-08, issued by Hurricane Test Laboratory, Inc., dated 01/08/08, signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No. 09-0303.01)

- 3. Laboratory compliance letters for Test Reports No. HTL-0080-0303-96 and HTL-0080-0502-97, issued by Hurricane Test Laboratory, Inc., dated 03/05/96 and 05/02/97, both signed and sealed by Timothy S. Marshall, P.E. (Submitted under NOA No. 96-0603.07)
- 4. Laboratory compliance letters for Test Report No. ATLSF-1209.01-94, issued by American Test Lab of South Florida, Inc., dated 12/09/94 to 12/14/94, signed and sealed by Gerard B. Sullivan, P.E.

(Submitted under NOA No. 96-0603.07)

Manuel Pérez, P.E. Product Control Examiner NOA No. 20-0519.05

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- F. STATEMENTS (CONTINUED)
 - 5. Test Proposal for the qualification of *Butacite*® PVB glass interlayer by DuPont 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.15-0512.15)

G. OTHERS

1. Notice of Acceptance No. **15-0512.15**, issued to CGI Windows and Doors, Inc. for their Series "238 Designer" Aluminum Fixed Window - L.M.I., approved on 09/10/15 and expiring on 10/20/18.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0519.05
Expiration Date: October 20, 2023

Approval Date: September 24, 2020

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **MD-PW238D**, titled "238 Designer Fixed Window", sheets 1 through 8 of 8, dated 04/27/20, with revision **A** dated 04/24/20, 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-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.

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 07/16/14, 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 Pérez, P.E. Product Control Examiner NOA No. 20-0519.05/

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. 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.
- 2. 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

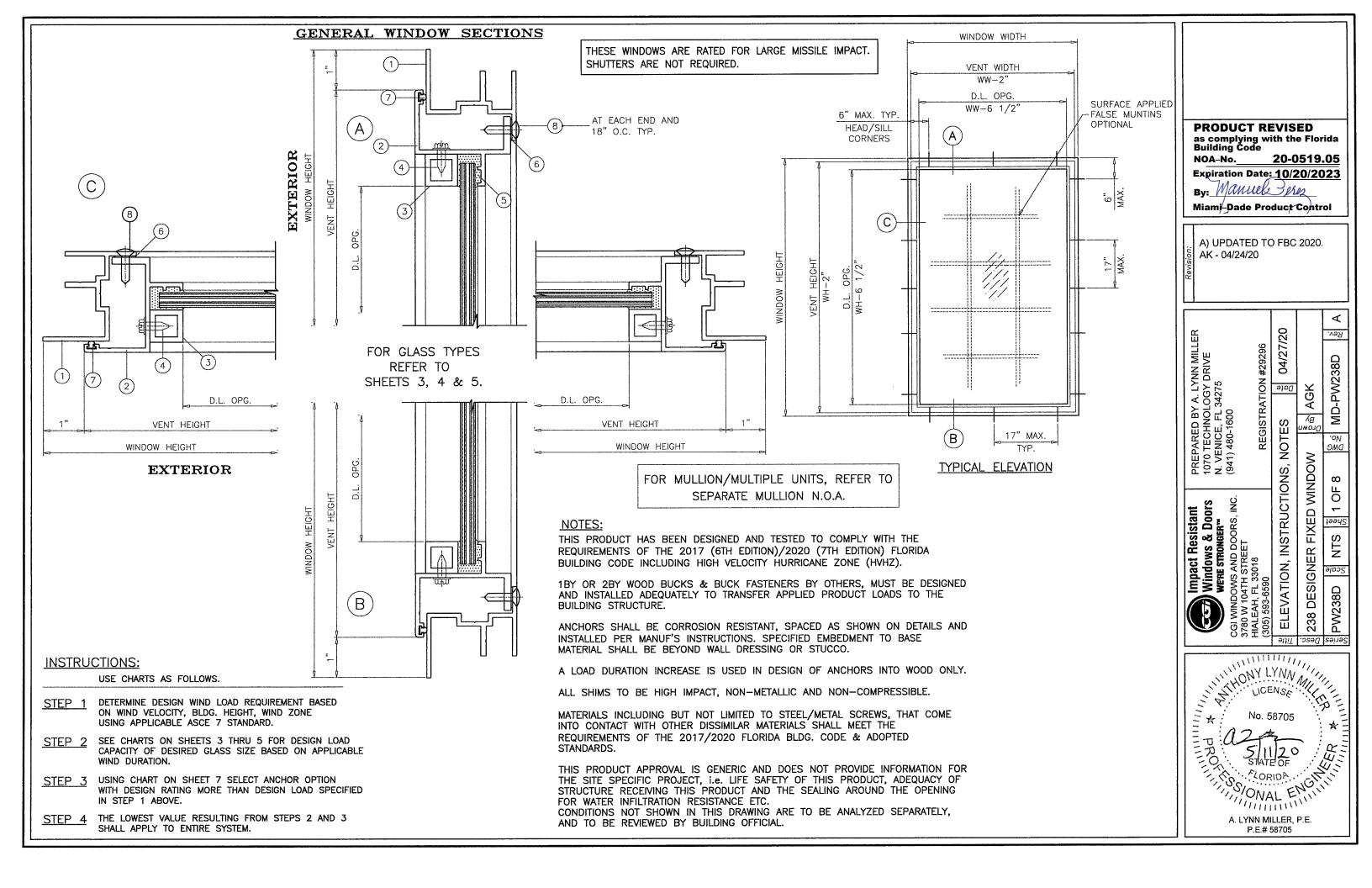
- 1. Statement letter of conformance, of complying with FBC 6th Edition (2017), and FBC 7th Edition (2020) dated April 27, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest dated April 27, 2020, issued by manufacturer, signed and 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.

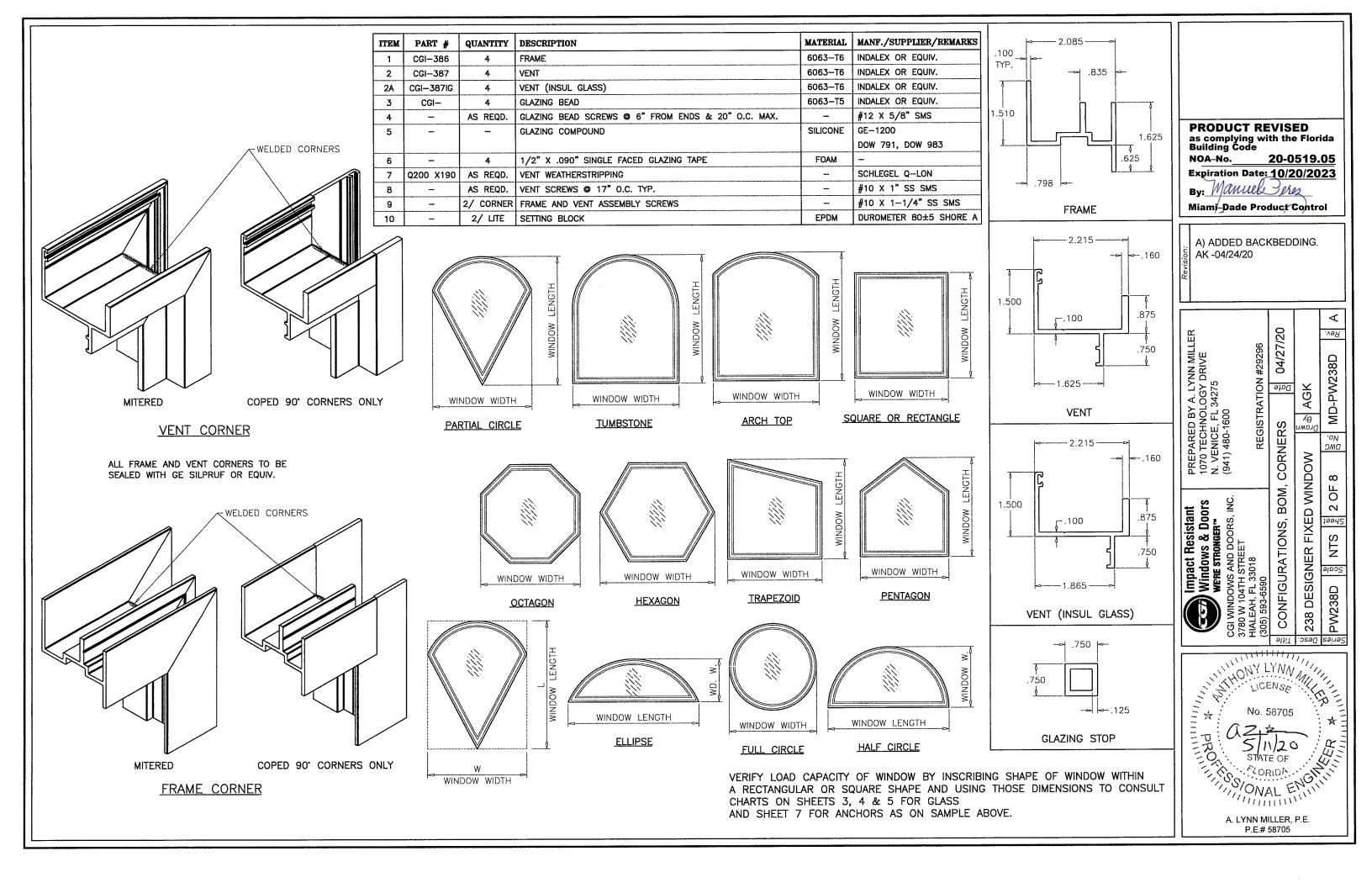
G. OTHERS

1. Notice of Acceptance No. 17-0926.17, issued to CGI Windows and Doors, Inc. for their Series "238 Designer" Aluminum Fixed Window - L.M.I., approved on 01/25/18 and expiring on 10/20/23.

Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-0519.05
Expiration Date: October 20, 2023

Approval Date: September 24, 2020





PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

REFER TO SHEETS					
WINDOV	V DIMS.	GLASS 7	TYPE '2'	GLASS 7	YPE '3'
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)
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"	36"	110.0	120.0	110.0	120.0
48"		101.4	101.4	110.0	120.0
54"		84.8	84.8	110.0	120.0
60"		74.7	74.7	110.0	114.3
24"		110.0	166.4	110.0	168.0
30"		110.0	142.5	110.0	144.0
36"		110.0	120.0	110.0	120.0
42"	42"	102.9	102.9	102.9	102.9
48"		85.0	85.0	102.9	102.9
54"		75.1	75.1	102.9	102.9
60"		66.4	66.4	90.0	90.0
24"		110.0	153.1	110.0	160.0
30"		110.0	117.6	110.0	120.0
36"		101.4	101.4	110.0	120.0
42"	48"	85.0	85.0	102.9	102.9
48"		75.5	75.5	90.0	90.0
54"		68.4	68.4	90.0	90.0
60"	1	63.6	63.6	90.0	90.0
24"		110.0	134.8	110.0	154.3
30"		99.4	99.4	110.0	120.0
36"		84.8	84.8	110.0	120.0
42"	54"	75.1	75.1	102.9	102.9
48"		68.4	68.4	90.0	90.0
54"		65.8	65.8	80.0	80.0
60"		59.0	59.0	80.0	80.0
24"		110.0	119.4	110.0	120.0
30"		87.8	87.8	110.0	120.0
36"	20"	74.7	74.7	110.0	114.3
42"	60"	66.4	66.4	90.0	90.0
48"		63.6	63.6	90.0	90.0
54"		59.0	59.0	80.0	80.0
24"		110.0	112.5	110.0	120.0
30"		82.1	82.1	110.0	120.0
36"	66"	66.6	66.6	90.0	90.0
42"		58.1	58.1	90.0	90.0
48"	<u> </u>	56.1	56.1	90.0	90.0
24"		105.4	105.4	110.0	120.0
30"		74.0	74.0	110.0	120.0
36"	72"	59.2	59.2	90.0	90.0
42"		51.2	51.2	90.0	90.0
48"		49.8	49.8	83.9	83.9
	<u> </u>	***************************************	•		***************************************

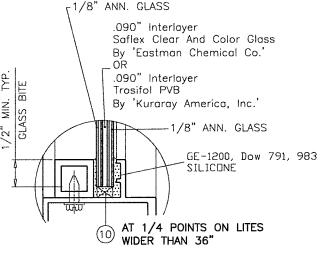
PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED

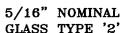
REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

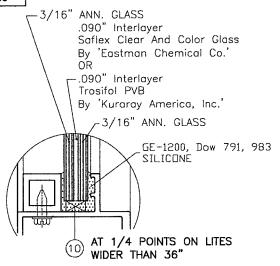
WINDOW DIMS.		GLASS 7	GLASS TYPE '2'		YPE '3'
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)
24"		97.5	97.5	110.0	120.0
30"	78"	67.2	67.2	90.0	90.0
36"	/6	50.8	50.8	90.0	90.0
42"		46.1	46.1	86.1	86.1
24"	84"	103.0	103.0	110.0	120.0
30"		63.0	63.0	90.0	90.0
36"		47.3	47.3	90.0	90.0
24"		87.5	87.5	110.0	120.0
30"	96"	56.3	56.3	90.0	90.0
36"		41.6	41.6	90.0	90.0
24"	108"	69.6	69.6	90.0	90.0
30"		53.5	53.5	90.0	90.0
24"	120"	58.8	58.8	90.0	90.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED

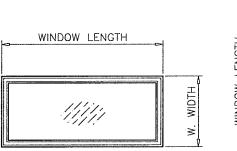
REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS					
WINDOW	DIMS.	GLASS 7	TYPE '2'	GLASS T	YPE '3'
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)
19-1/8"		110.0	210.0	110.0	210.0
26-1/2"	0.07	110.0	166.2	110.0	166.2
37"	26"	110.0	166.2	110.0	166.2
53-1/8"		110.0	120.0	110.0	120.0
19-1/8"		110.0	200.6	110.0	200.6
26-1/2"	70 7/0"	110.0	163.0	110.0	163.0
37"	38-3/8"	110.0	116.8	110.0	116.8
53-1/8"		81.9	81.9	110.0	112.6
19-1/8"		110.0	185.7	110.0	185.7
26-1/2"	EO E /0"	110.0	125.2	110.0	147.2
37"	50-5/8"	92.1	92.1	110.0	116.8
53-1/8"		66.6	66.6	85.3	85.3
19-1/8"		110.0	177.5	110.0	177.5
26-1/2"	07#	98.1	98.1	110.0	120.0
37"	63"	68.6	68.6	110.0	110.2
53-1/8"		56.6	56.6	81.3	81.3
19-1/8"		110.0	120.0	110.0	120.0
26-1/2"	74-1/4"	85.2	85.2	110.0	120.0
37"		55.4	55.4	90.0	90.0
1/8" ANN CLASS					







7/16" NOMINAL GLASS TYPE '3'



WDW. WIDTH WINDOW LENGTH

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

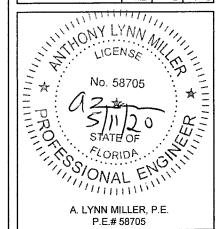
PRODUCT REVISED as complying with the Florida Building Code 20-0519.05 NOA-No.

Expiration Date: 10/20/2023 By: Manuel Peres

Miami-Dade Product Control

A) NO CHANGES THIS SHEET. AK - 03/27/20

04/27/20 Rev. PREPARED BY A. LYNN MILLE 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296 MD-PW238D AGK Date Drawn DMC 238 DESIGNER FIXED WINDOW DESIGN PRESSURE TABLES ω 3 OF Impact Resistant
Windows & Doors
WEHE STRONGER"
INDOWS AND DOORS, INC.
V 104TH STREET
AH, FL 33018 Z N S P S P S



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

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED

WINDOW DIMS.

HEIGHT

36"

42"

48"

WIDTH

24"

30"

36"

42"

48"

54"

60"

24"

30"

36"

42"

48"

54"

60"

24"

30"

36"

42"

REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

110.0

110.0

110.0

110.0

110.0

110.0

110.0

110.0

110.0

110.0

96.9

96.9

90.0

110.0

110.0

110.0

96.9

GLASS TYPE '6'

EXT. (+) 1NT. (-)

195.8

156.6

130.5

120.0

120.0

120.0

120.0

193.6

156.6

120.0

111.9

111.9

111.9

90.0

184.4

120.0

120.0

111.9

50.0

57"

60"

63"

66"

69

72"

75"

78"

81"

78"

57"

60"

63"

66"

69"

72"

75"

78"

81'

84"

87"

24"

- 1	PERFORMANCE VALUES
	OF IMPACT RESISTANT WINDOW
	NO SHUTTERS REQUIRED
- 1	REFER TO SHEETS 6 AND 7
- 1	EOD INICTALLATION DETAILS

66"

	I ENFORMATION VALUES
7	IMPACT RESISTANT WINDOWS
	NO SHUTTERS REQUIRED
	REFER TO SHEETS 6 AND 7
	FOR INSTALLATION DETAILS

OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS						
WINDOW DIMS. GLASS TYPE '6'						
WIDTH	HEIGHT	EXT. (+)	1NT. (
24"		110.0	120.0			
30"		110.0	120.0			
36"		90.0	90.0			
42 "		90.0	90.0			
48"		90.0	90.0			
54"		70.0	70.0			

70.0

70.0

65.5

65.5

65.5

50.0

50.0

50.0

50.0

50.0

110.0

110.0

90.0

90.0

90.0

70.0

70.0

70.0

70.0

68.6

65.5

50.0

50.0

50.0

50.0

50.0

50.0

50.0

110.0

90.0

90.0

90.0

70.0

70.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

50.0

50.0

72"

70.0

70.0

68.6

65.5

65.5

65.5

50.0

50.0

50.0

50.0

50.0

120.0

120.0

90.0

90.0

90.0

70.0

70.0

70.0

70.0

68.6

65.5

50.0

50.0

50.0

50.0

50.0

50.0

50.0

120.0

90.0

90.0

90.0

70.0

70.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

50.0

50.0

PERFORMANCE VALUES OF

WINDOW DIMS.

HEIGHT

84"

96"

108"

120"

WIDTH

24"

30"

36"

42"

45"

51"

54"

57"

60"

63"

66"

69"

72"

75"

24"

30"

36"

39"

42"

45"

48"

51"

54"

57"

60"

63"

66"

24"

30"

33"

36"

39"

42"

45"

48"

51"

54"

57"

60"

24"

30"

33"

36"

39"

42"

45"

48"

51"

54"

IMPACT	RESISTAN	T WINDOWS
	HUTTERS RE	
	ro sheets (
FOR IN	STALLATION	DETAILS

70.0

70.0

70.0

50.0

50.0 50.0

50.0

50.0

90.0

90.0

70.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

90.0

70.0

70.0

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50.0

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70.0

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70.0

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70.0

70.0

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50.0

90.0

70.0

70.0

70.0

70.0

50.0

50.0

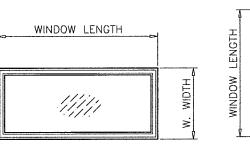
50.0

50.0

50.0

S	PERFORMANCE VALUES
NDOWS	OF IMPACT RESISTANT WINDOWS
D	NO SHUTTERS REQUIRED
7	REFER TO SHEETS 6 AND 7
s	FOR INSTALLATION DETAILS

TON DETAILS		FOR INSTALLATION DETAILS				
GLASS TYPE '6'		WINDOY	V DIMS.	GLASS TYPE '6'		
	EXT. (+)	1NT. (-)	WIDTH	HEIGHT	EXT. (+)	1NT. (-)
	110.0	120.0	24"		70.0	70.0
	90.0	90.0	30"		70.0	70.0
	90.0	90.0	33"		70.0	70.0
	70.0	70.0	36"	132"	70.0	70.0
	70.0	70.0	39"	132	50.0	50.0
	70.0	70.0	42"		50.0	50.0
	70.0	70.0	45*		50.0	50.0
	70.0	70.0	48"		50.0	50.0
	70.0	70.0	24*		70.0	70.0
	50.0	50.0	30"		70.0	70.0
	50.0	50.0	33"		70.0	70.0
	50.0	50.0	36*	144"	50.0	50.0
	50.0	50.0	39"		50.0	50.0
	50.0	50.0	42"		50.0	50.0
	50.0	50.0	45"		50.0	50.0
	110.0	120.0	24"		70.0	70.0
	90.0	90.0	30"		70.0	70.0
	90.0	90.0	33"	156"	50.0	50.0
	70.0	70.0	36"		50.0	50.0
	70.0	70.0	39"		50.0	50.0



WDW. WIDTH,

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

-3/16" HEAT STREN'D GLASS .090" Interlayer Saflex Clear And Color Glass By 'Eastman Chemical Co.' .090" Interlayer Trosifol PVB By 'Kuraray America, Inc.' -3/16" HEAT STREN'D GLASS GE-1200, Dow 791, 983 SILICONE AT 1/4 POINTS ON LITES 10 WIDER THAN 36"

7/16" NOMINAL GLASS TYPE '6'

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS

WINDO	W DIMS.	GLASS TYPE '6'			
WIDTH	HEIGHT	EXT. (+)	1NT. (-)		
19-1/8"		110.0	210.0		
26-1/2"		110.0	180.7		
37"	26"	110.0	180.7		
53-1/8"		110.0	120.0		
19-1/8"		110.0	210.0		
26-1/2"	70 7/0"	110.0	177.3		
37"	38-3/8"	110.0	120.0		
53-1/8"		110.0	120.0		
19-1/8"		110.0	210.0		
26-1/2"	50-5/8"	110.0	169.7		
37"	30-3/6	110.0	120.0		
53-1/8"		85.3	85.3		
19-1/8"		110.0	204.6		
26-1/2"		110.0	120.0		
37"	63"	110.0	120.0		
53-1/8"		81.3	81.3		
19-1/8"		110.0	120.0		
26-1/2*	74. 1 /4"	110.0	120.0		
37"	74-1/4"	90.0	90.0		
53-1/8"		70.0	70.0		

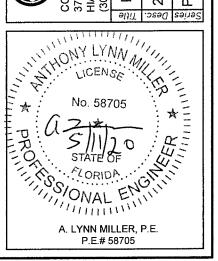
NOA-No. 20-0519.05 **Expiration Date: 10/20/2023** By: Manuel Perez Miami-Dade Product Control

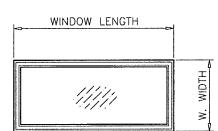
PRODUCT REVISED

as complying with the Florida Building Code

A) NO CHANGES THIS SHEET. AK - 03/27/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	(c) 04/27/20	AGK	୍ଥର MD-PW238D ର ଜୁ	
	ж.	E TABLES			
Windows & Doors Windows & Doors Were Stronger** GI WINDOWS AND DOORS, INC. 780 W 104TH STREET	IALEAH, FL 33018 305) 593-6590	DESIGN PRESSURE TABLES	238 DESIGNER FIXED WINDOW	PW238D 0 NTS 0 4 OF 8	





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

48" 84.8 97.9 30" 54" 90.0 90.0 36" 60" 90.0 90.0 42" 24" 110.0 177.8 110.0 30" 120.0 51" 36" 110.0 120.0 54" 42" 96.9 111.9 57" 48" 90.0 90.0 60" 80.0 80.0 63" 54" 80.0 60" 80.0 66" 110.0 120.0 69" 24" 30" 110.0 120.0 72" 36" 110.0 120.0 75" 42" 90.0 90.0 78" 90.0 90.0 48" 81" 54" 80.0 80.0 84" 60" 70.0 70.0 87" 60" 63" 70.0 70.0 24" 66" 70.0 30" 70.0 69" 70.0 70.0 36" 72" 70.0 70.0 42" 75" 70.0 70.0 45" 78" 70.0 70.0 81" 70.0 70.0 51" 50.0 84" 50.0 54" 87" 50.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS

NO SHUTTERS REQUIRED

REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

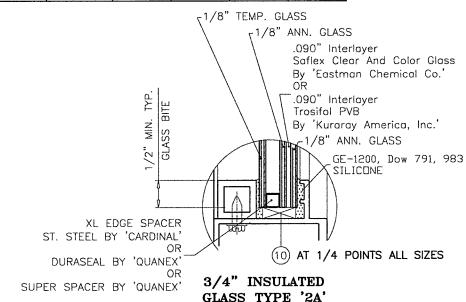
WINDOW	WINDOW DIMS. GLASS TYPE '2A' GLASS				TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)	
24"		110.0	180.0	110.0	195.8	
30"		110.0	144.0	110.0	156.6	
36"		110.0	120.0	110.0	130.5	
42"	36"	110.0	120.0	110.0	120.0	
48"		107.7	107.7	110.0	120.0	
54"		90.1	90.1	110.0	120.0	
60"		79.3	79.3	110.0	120.0	
24"		110.0	168.0	110.0	193.6	
30"		110.0	144.0	110.0	156.6	
36"		110.0	120.0	110.0	120.0	
42"	42"	102.9	102.9	96.9	111.9	
48"		90.3	90.3	96.9	111.9	
54"		79.8	79.8	96.9	111.9	
60"		70.5	70.5	90.0	90.0	
24"		110.0	160.0	110.0	184.4	
30"		110.0	120.0	110.0	120.0	
36"		107.7	107.7	110.0	120.0	
42"	48"	90.3	90.3	96.9	111.9	
48"		80.2	80.2	84.8	97.9	
54"		72.7	72.7	90.0	90.0	
60"		67.6	67.6	90.0	90.0	
24"		110.0	143.3	110.0	177.8	
30"		105.6	105.6	110.0	120.0	
36"		90.1	90.1	110.0	120.0	
42"	54"	79.8	79.8	96.9	111.9	
48"		72.7	72.7	90.0	90.0	
54"		69.9	69.9	80.0	80.0	
60"		62.7	62.7	80.0	80.0	
24"		110.0	120.0	110.0	120.0	
30"		93.3	93.3	110.0	120.0	
36"	60"	79.3	79.3	110.0	120.0	
42"	00	70.5	70.5	90.0	90.0	
48"		67.6	67.6	90.0	90.0	
54"		62.7	62.7	80.0	80.0	
24"		110.0	119.5	110.0	120.0	
30"		87.2	87.2	110.0	120.0	
36"	66"	70.7	70.7	90.0	90.0	
42"		61.7	61.7	90.0	90.0	
48"		59.6	59.6	90.0	90.0	
24"		110.0	111.9	110.0	120.0	
30"		78.6	78.6	110.0	120.0	
36"	72"	62.9	62.9	90.0	90.0	
42"		54.4	54.4	90.0	90.0	
48"		52.9	52.9	90.0	90.0	

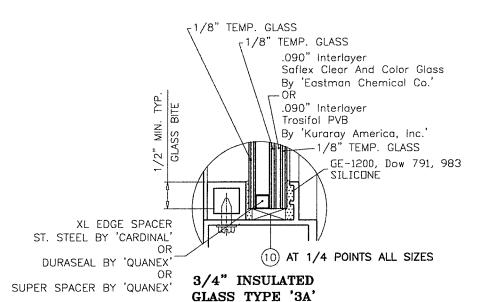
PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS

NO SHUTTERS REQUIRED

REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

WINDOV	DIMS.	GLASS T	YPE '2A'	GLASS TYPE '3A'		
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)	
24"		103.6	103.6	110.0	120.0	
30"	78"	71.4	71. 4	90.0	90.0	
36"	76	54.0	54.0	90.0	90.0	
42"		48.9	48.9	90.0	90.0	
24"		109.4	109.4	110.0	120.0	
30"	84"	67.0	67.0	90.0	90.0	
36"		50.2	50.2	90.0	90.0	
24"		92.9	92.9	110.0	120.0	
30"	96"	59.8	59.8	90.0	90.0	
36"		44.2	44.2	90.0	90.0	
24"	108"	74.0	74.0	90.0	90.0	
30"	100	56.8	56.8	90.0	90.0	
24"	120"	62.5	62.5	90.0	90.0	



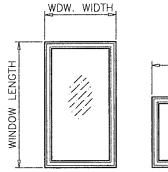


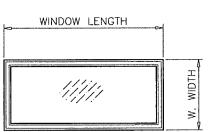
PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS

NO SHUTTERS REQUIRED

REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

WINDOV	V DIMS.	GLASS T	YPE '2A'	GLASS TYPE '3A'		
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)	
19-1/8"	26"	110.0	210.0	110.0	210.0	
26-1/2"		110.0	166.2	110.0	180.7	
37"		110.0	166.2	110.0	180.7	
53-1/8"		110.0	120.0	110.0	120.0	
19-1/8"		110.0	200.6	110.0	210.0	
26-1/2"	70 7/07	110.0	163.0	110.0	177.3	
37"	38-3/8"	110.0	116.8	110.0	120.0	
53-1/8"		87.0	87.0	110.0	120.0	
19-1/8"		110.0	185.7	110.0	210.0	
26-1/2"	E0 E/0"	110.0	133.0	110.0	169.7	
37"	50-5/8"	97.9	97.9	110.0	120.0	
53-1/8"		70.8	70.8	85.3	85.3	
19-1/8"		110.0	177.5	110.0	204.6	
26-1/2"	0.7#	104.3	104.3	110.0	120.0	
37"	63"	72.9	72.9	110.0	120.0	
53-1/8"		60.1	60.1	81.3	81.3	
19-1/8"		110.0	120.0	110.0	120.0	
26-1/2"	74-1/4"	90.5	90.5	110.0	120.0	
37"		58.8	58.8	90.0	90.0	





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)

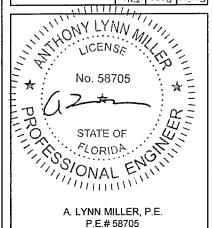
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0519.05

Expiration Date: 10/20/2023 By: Manuel Peres Miami-Dade Product Control

A) NO CHANGES THIS SHEET. AK - 03/27/20

Rev.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 04/27/20 MD-PW238D REGISTRATION Drawn By No. DMC 238 DESIGNER FIXED WINDOW DESIGN PRESSURE TABLES ∞ OF. Windows & Doors
Were stronger
NDOWS AND DOORS, INC.
1104TH STREET
NH, FL 33018 Ŋ Sheet NTS Scale PW238D Series Desc. Title



INSTALLATION CONDITIONS (APPLIES TO ALL FOUR SIDES) FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6 TYPICAL ANCHORS SEE ELEV. FOR SPACING 1/4" ULTRACON-1/4" ULTRACON-METAL STRUCTURES **PRODUCT REVISED** as complying with the Florida Building Code NOA-No. Expiration Date: 10/20/2023 By: Manuel Peres 1 3/8" Miami-Dade Product Control SEALANT SEALANT A) NO CHANGES THIS SHEET AK - 03/27/20 2 1/8' 2 1/8" 2-1/2" MIN. 2-1/2" MIN PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 WOOD BUCK TYPE '1' INSTALLATION TYPE '1' INSTALLATION TYPE '2' WOOD BUCK TYPE '2' MATERIAL: PRESSURE TREATED MATERIAL: PRESSURE TREATED ATTACHMENT TO TYPICAL INSTALLATION DETAIL TYPICAL INSTALLATION DETAIL METAL STRUCTURES ON ALL FOUR SIDES/USING WOOD ON ALL FOUR SIDES/USING WOOD 1/4" ULTRACONS — 1-1/2" EMBED 1/4" ULTRACONS -1-1/2" EMBED | Impact Resistant | Windows & Doors | Were stronger | Were stronger | GI WINDOWS AND DOORS, INC. 780 W 104TH STREET | MALEAH, FL 33018 -#12 SMS 1 3/8" **SEALANT** SEALANT -1/4" MAX. SHIM Annimite in 2 7/8" 2 1/8 ATTACHMENT TO APPROVED MULLIONS -BUCK INSTALLATION BY OTHERS BUCK INSTALLATION BY OTHERS MIN. INSTALLATION TYPE '3' WOOD BUCK TYPE '3' INSTALLATION TYPE '4' WOOD BUCK TYPE '4' MATERIAL: PRESSURE TREATED MATERIAL: PRESSURE TREATED TYPICAL INSTALLATION DETAIL TYPICAL INSTALLATION DETAIL WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN

ON ALL FOUR SIDES/USING WOOD

ON ALL FOUR SIDES/USING WOOD

STATE OF

CORIDA

ONAL

A. LYNN MILLER, P.E.

P.E.# 58705

LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER

THEM TO THE BUILDING STRUCTURE.

20-0519.05

04/27/20

Date

REGISTRATION #29296

Rev.

MD-PW238D

DWG.

6 OF 8

Sheet

NTS

Scale

AGK

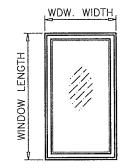
Draw By

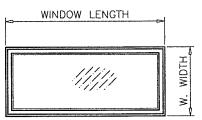
238 DESIGNER FIXED WINDOW

INSTALLA Series 238 DESIG

INSTALLATION DETAILS

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 6 FOR DETAILS		PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 6 FOR DETAILS		PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 6 FOR DETAILS		PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 6 FOR DETAILS					
WINDOV	V DIMS.	EXT. (+)	WINDO	V DIMS.	EXT. (+)	WINDO	v dims.	EXT. (+)	WINDOV	DIMS.	EXT. (+)
WIDTH	HEIGHT	INT. (-)	WIDTH	HEIGHT	INT. (-)	WIDTH	HEIGHT	INT. (-)	WIDTH	HEIGHT	INT. (-)
24*	ŀ	210.0	24"		210.0	24"		210.0	24"		210.0
30"		210.0	30"		210.0	30"		210.0	30"		180.6
36"		210.0	36"		210.0	36"		185.2	36"		155.6
42"		210.0	42"		207.8	42"		168.1	42*	108"	137.9
48"		210.0	48"		200.0	48"		156.3	48"		125.0
54"		210.0	54"		197.5	54"		148.1	54"		115.2
60*		190.5	60"		161.6	60*		142.9	60"		107.7
63"	36"	177.8	63"	54"	148.1	63"	72"	141.1	63"	 	104.6
66*		208.3	66"		170.9	66"		139.9	24"		210.0
69"		196.1	69"		158.7	69"		139.1	30"		182.9
72"		185.2	72"		148.1	72"		138.9	36"	4007	156.9
75*		175.4	75"		138.9	75"		128.2	42"	120"	138.5
78"		166.7	78"		130.7	78"		119.0	48"		125.0
81"		190.5	81"		148.1	81"		133.3	54"		114.7
84"		181.8	84"		140.4	84"		125.0	24"		210.0
87"		173.9	87"		133.3	87"	ļ	117.6	30"		184.6
90"		166.7	90"		127.0	90"		111.1	36"	132"	157.9
24"		210.0	24"		210.0	24"		210.0	42"		139.0
30"		210.0	30"		210.0	30"		190.5	48"		125.0
36"		210.0	36"		190.5	36"		166.7	24"		204.5
42"		210.0	42"		175.8	42"	!	150.4	30"	144"	167.4
48"		210.0	48"		166.7	48"		138.9	36"		142.9
54"		207.8	54"		161.6	54"		130.7	42*		125.4
60*		175.8	60"		160.0	60"		125.0	48"		112.5
63"	42"	163.3	63"	60"	145.5	63"	78 "	122.9	24"	450	208.3
66*		190.5	66"		160.0	66*		121.2	30"	156"	170.2
69"		178.6	69"		153.8	69"		119.9	36"		144.9
72"		168.1	72"		142.9	72"		119.0	42"	L	127.0
75"		158.7	75"	1	133.3	75"		118.5			
78"		150.4	78"		125.0	78"		118.3			
81"		171.4	81"		141.2	81"		118.3 118.3			
84"		163.3	84"		133.3	84"		115.4	1		CE VALUES ON ANCHORS
87"	j	155.8	87"		126.3	87"		210.0			6 FOR DETAILS
90"		149.1 210.0	90"	 	210.0	24" 30"		208.7		V DIMS.	1
24" 30"		210.0	24" 30"		210.0	36"		181.8	WIDTH	HEIGHT	EXT. (+) INT. (-)
36"		210.0	36*		208.3	42"		163.3	19-1/8"	TILIOTT	210.0
42"		210.0	42"	1	190.5	48"		150.0	26-1/2"		210.0
48"		210.0	48"		178.6	54"	84"	140.4	37"	26*	210.0
54"		200.0	54"		170.9	60"	07	133.3	53-1/8"		210.0
60"		166.7	60"		160.0	63"		130.6	19-1/8"		210.0
63"		153.8	63*		145.1	66*		128.3	26-1/2"	70 7 /05	210.0
66"	48"	178.6	66"	66*	165.3	69"		126.5	37"	38-3/8"	210.0
69"		166.7	69"		151.5	72"		125.0	53-1/8"		210.0
72"		156,3	72"		139.9	75"		123.9	19-1/8"		210.0
75"		147.1	75*		129.9	78"		118.3	26-1/2"	50-5/8"	210.0
78"		138.9	78"		121.2	81"		122.6	37"	30-3/6	210.0
81"		157.9	81*		136.4	24"		210.0	53-1/8"		204.5
84"		150.0	84"		128.3	30"		177.8	19-1/8"	1	210.0
87"		142.9	87"		121.2	36"		153.8	26-1/2"	63"	210.0
90"		136.4	90"		114.8	42"		137.1	37"	63"	174.9
	A			• • • • • • • •	4	48"	96"	125.0	53-1/8"]	148.8
						54"		115.9	19-1/8"		210.0
						60"		109.1	26-1/2"	74-1/4"	210.0
						63*		106.3	37"	1 // -	174.5
						66"		103.9	53-1/8"	<u> </u>	142.1
						69*		101.8			
						72"	<u> </u>	100.0			





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

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 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

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

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

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS) INTO METAL STRUCTURES

STEEL: 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063—T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8") (NO SHIM SPACE)

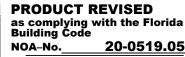
TYPICAL EDGE DISTANCE

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.

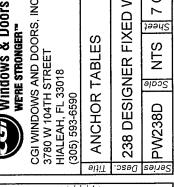
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

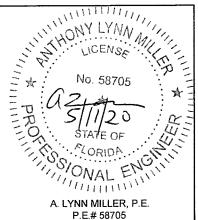


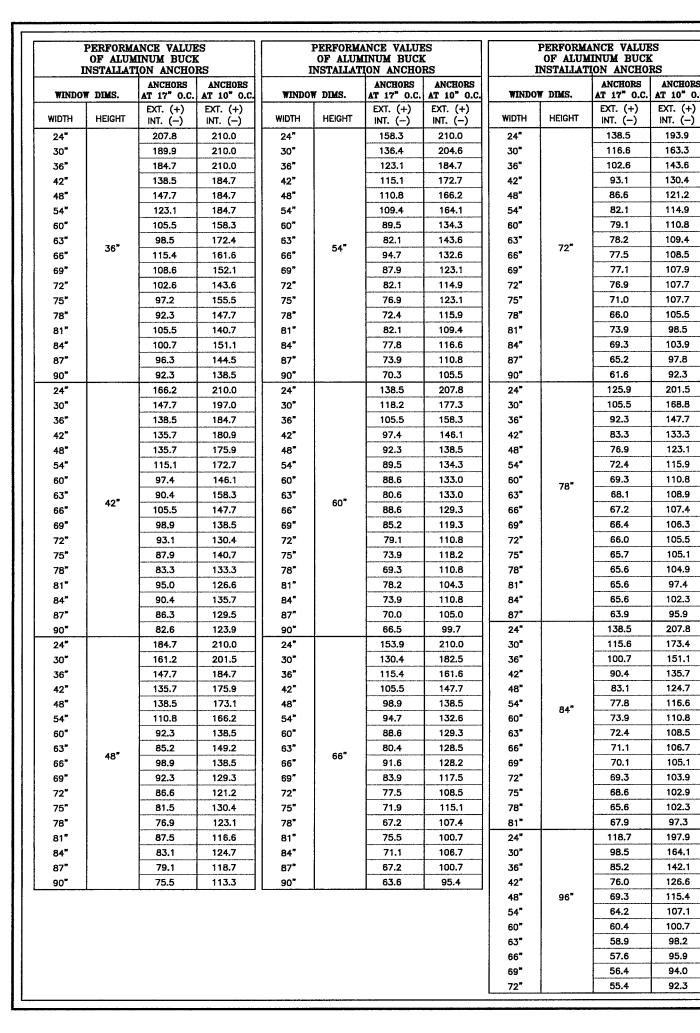
By: Manuel Product Control

A) ADDED ULTRACON+.

K.		20		Rev.
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	(a) 04/27/20	egrab AGK	MD-PW238D
ARE TEC INIC 480	REC			No.
PREF 1070 N. VE (941)			WINDOW	8 =
1 1 \$ NC.			₹	7 OF 8







PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS ANCHORS ANCHORS ANCHORS

97.4

102.3

95.9

207.8

173.4

151.1

135.7

124.7

116.6

110.8

108.5

106.7

105.1

103.9

102.9

102.3

97.3

197.9

164.1

142.1

126.6

115.4

107.1

100.7

98.2

95.9

94.0

92.3

AT 10" O.C.	WINDO	V DIMS.	AT 17" O.C.	AT 10" O.	
	MINDO	i Dins.			
EXT. (+) INT. (-)	WIDTH	HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (–)	
193.9	24"		121.2	190.4	
163.3	30"		100.1	157.3	
143.6	36"		86.2	135.4	
130.4	42"	108"	76.4	120.1	
121.2	48"		69.3	108,8	
114.9	54"		63.8	100.3	
110.8	60"		59.7	93.8	
109.4	63"		57.9	91.0	
108.5	24"		123.1	184.7	
107.9	30"		101.3	152.0	
107.7	36"	120"	86.9	130.4	
107.7	42"		76.7	115.1	
105.5	48"		69.3	103.9	
98.5	54"		63.5	95.3	
103.9	24*		124.7	180.1	
97.8	30"		102.3	147.7	
92.3	36"	132"	87.5	126.4	
201.5	42"		77.0	111.2	
168.8	48"		69.3	100.0	
147.7	24"		113.3	188.9	
133.3	30"		92.8	154.6	
123.1	36"	144"	79.1	131.9	
115.9	42"		69.5	115.8	
110.8	48"		62.3	103.9	
108.9	24"		115.4	184.7	
107.4	30"	156"	94.3	150.9	
106.3	36"		80.3	128.5	
105.5	42"		70.3	112.6	
105.1					
104.9		PERFORM	NCE VALUE	ES	

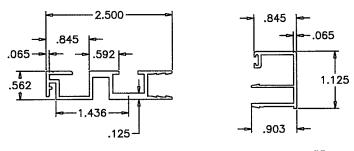
OF ALUMINUM BUCK INSTALLATION ANCHORS

ANCHORS ANCHORS

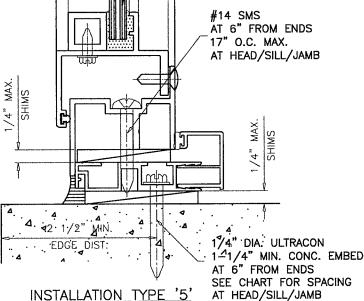
	WINDO	DIMS.	AT 17" O.C.	AT 10" O.C.		
$\ $	WIDTH	HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)		
]	19-1/8"		210.0	210.0		
	26-1/2"	26 "	210.0	210.0		
	37"	20	191.8	210.0		
	53-1/8"		152.9	210.0		
	19-1/8*		210.0	210.0		
	26-1/2"	38-3/8"	179.7	210.0		
	37"	00 0,0	162.7	210.0		
	53-1/8"		122.5	183.8		
	19-1/8"		203.2	210.0		
	26-1/2"	50-5/8°	161.1	201.4		
	37"	00 0,0	134.2	167.8		
	53-1/8"		113.3	155.6		
l	19-1/8"		156.1	210.0		
	26-1/2"	63 "	121.0	210.0		
	37*		96.9	169.6		
	53-1/8"		82.4	144.2		
	19-1/8"		161.2	210.0		
	26-1/2"	74-1/4"	123.4	197. 4		
	37"	, .	96.7	154.7		
	53-1/8"		78.7	126.0		

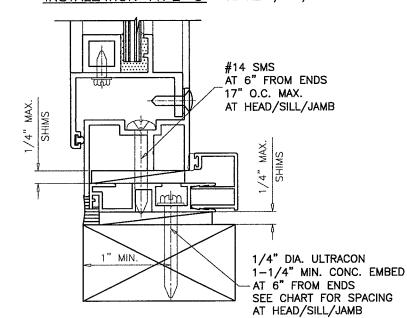
ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 3 THRU 6 FOR WINDOW CAPACITIES USE LOWER APPLICABLE VALUES.



ALUMINUM BUCK OPTIONAL COVER 6063-T6 6063-T6





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

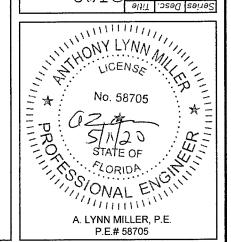
TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM

PRODUCT REVISED as complying with the Florida Building Code 20-0519.05 NOA-No.

Expiration Date: 10/20/2023 By: Manuel Peres Miami-Dade Product Control

A) NO CHANGES THIS SHEET AK - 03/27/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 04/27/20 Rev. MD-PW238D Date KΒ DMC WINDOW ∞ Q Resistant ws & Doors RONGERT S ω FIXED Impact Resistan
Windows & Doo
WERE STRONGER
OWS AND DOORS, II Sheet BUCK NTS 238 DESIGNER ALUMINUM



PW238D