



**MIAMI-DADE COUNTY, FLORIDA
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)

WinDoor, Inc.

7500 Amsterdam Drive

Orlando, FL 32832

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 "410" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. PW410LMI-NOA, titled "Series 410 Fixed Window (L.M.I.)", sheets 1 through 11 of 11, dated 06/05/19, with revision A dated 05/07/20, 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, 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 No. 19-0611.07** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.Z.

06/25/2021

NOA No. 20-0519.16

Expiration Date: June 03, 2024

Approval Date: October 28, 2020

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. PW410LMI-NOA, titled "Series 410 Fixed Window (L.M.I.)", sheets 1 through 11 of 11, dated 06/05/19, with revision A dated 05/07/20, 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

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.:

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 7th Edition (2020)**, dated 05/12/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with **ASTM E1300-04, -09, -12 and -16**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS (See NOA #20-0519.05)

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. **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.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0519.16
Expiration Date: June 03, 2024
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F. STATEMENTS

1. Notification of Successor Engineer per the Florida Administrative Code Section 61G15-27.001, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated 06/12/20, signed and sealed by A. Lynn Miller, P.E.
2. Statement letter of conformance, of complying with **FBC 6th Edition (2017)**, and **FBC 7th Edition (2020)** dated 05/12/2021, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Statement letter of no financial interest dated 05/12/2021, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

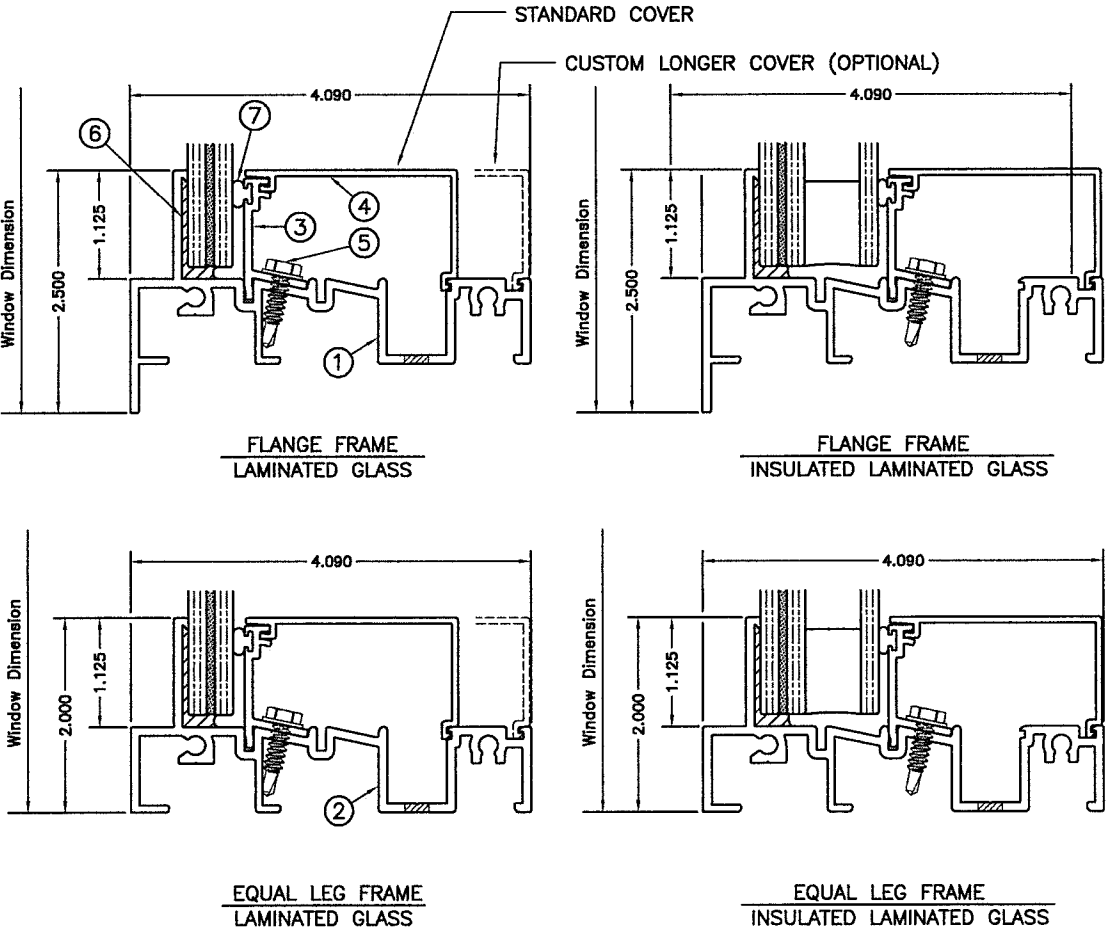
G. OTHERS

1. Private labeling agreement between WinDoor, Inc. and CGI Windows and Doors, Inc. document in conformance of RER guideline dated 09/12/2018.
(Submitted under NOA No. 18-1001.12)
2. Notice of Acceptance No. 18-1001.12, issued to WinDoor, Inc. for their Series “410” Aluminum Fixed Window - L.M.I. approved on 12/12/18 and expiring on 06/03/24.
3. Notice of Acceptance No. **20-0519.11**, issued to CGI Windows and Doors, Inc. for their Series “410” Aluminum Fixed Window - L.M.I. approved on 09/24/2020 and expiring on 06/03/24.



Sifang Zhao, P.E.
Product Control Examiner
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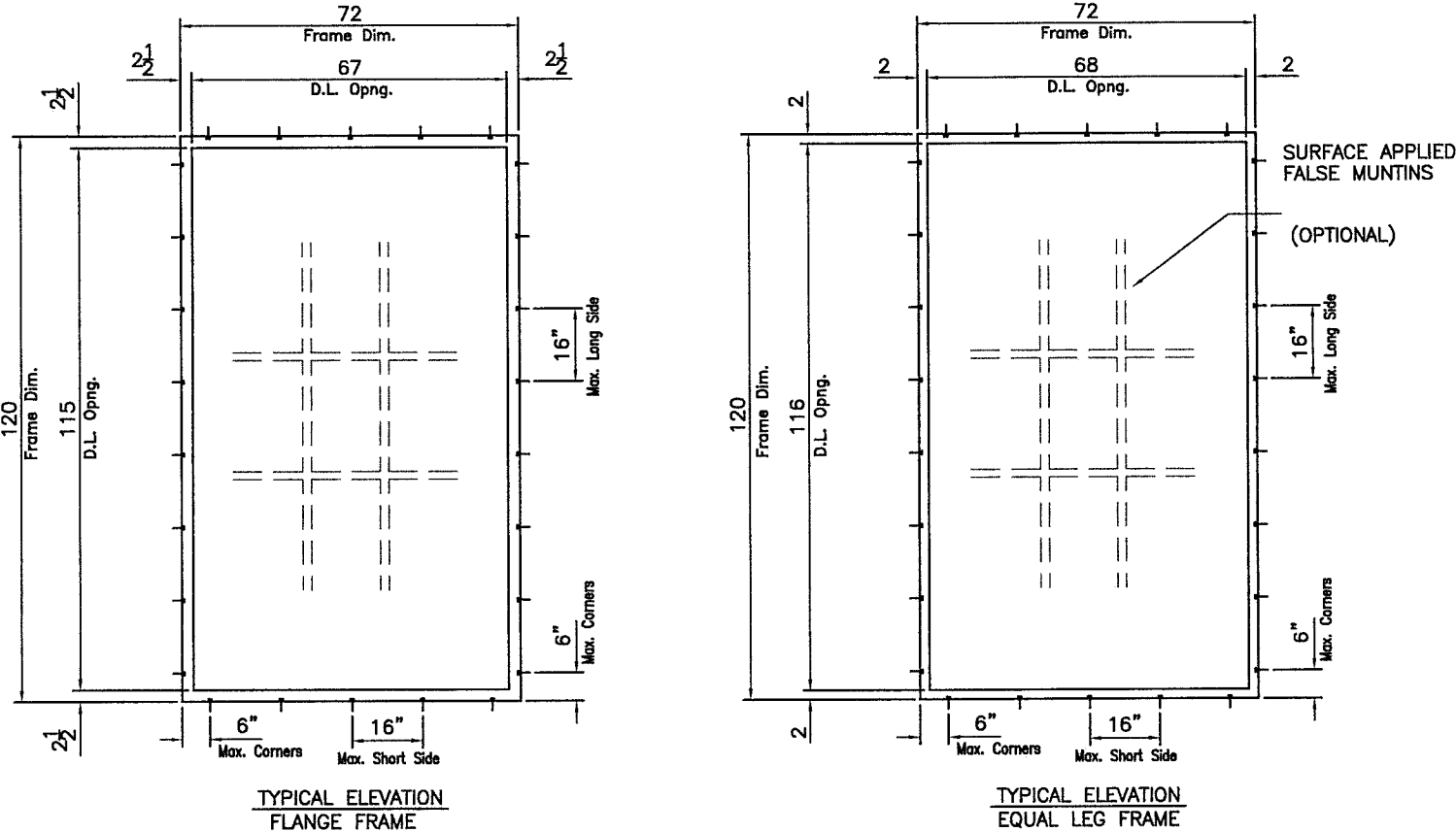
AVAILABLE FRAME TYPES
Same frame used on all four sides



SERIES 410 FIXED WINDOWS – LARGE & SMALL MISSILE

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIX. WDW. WITH OTHER MIAMI-DADE COUNTY APPROVED WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) AND 2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ). 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE. ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS. THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL



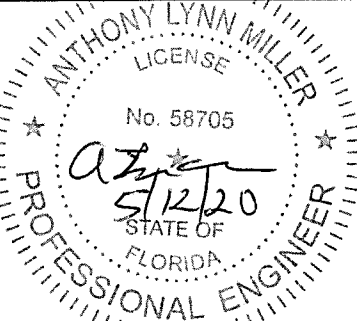
INSTRUCTIONS FOR USING CAPACITY CHARTS:

- STEP 1 DETERMINE THE REQUIRED DESIGN PRESSURES FOR A GIVEN WINDOW OPENING.
- STEP 2 DETERMINE THE CAPACITY OF THE WINDOW SIZE/CONFIGURATION/GLASS TYPE FROM CHARTS ON SHEETS 2 AND 3. FOR INSTALLATION ANCHOR TYPES SEE SHEETS 4 & 5.
- STEP 3 IF ALUMINUM BUCKS ARE USED, VERIFY THE BUCK INSTALLATION CAPACITY FROM SHEET 9.
- STEP 4 FOR UNCLIPPED MULLED WINDOWS DETERMINE MULLION CAPACITY FOR 1X4 AND 2X6 TUBES FROM CHARTS ON SHEETS 6 & 8.
- STEP 5 FOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 7.

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

THE LOWEST SELECTED VALUE APPLY TO THE INSTALLATION AND MUST EQUAL OR EXCEED THE REQUIRED DESIGN PRESSURES OBTAINED FROM STEP 1.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16
Expiration Date 06/03/2024
By *CS*
Miami-Dade Product Control

Title: SERIES 410 FIXED WINDOW - LM			Drawn By: AGK		WinDoor® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400		
Description: NOTES, ELEVATIONS			Date: 06/05/19				
Revision: ANCHOR TYPES, UPDATED TO FBC 2020			Rev. By: JR	Rev. Date: 05/07/20	PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275		
Series/Model: PW-410 LM	Scale: NTS	Sheet: 1 OF 11	Drawing No. PW410LMI-NOA		Rev: A		(941) 480-1600
							REGISTRATION #29296

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

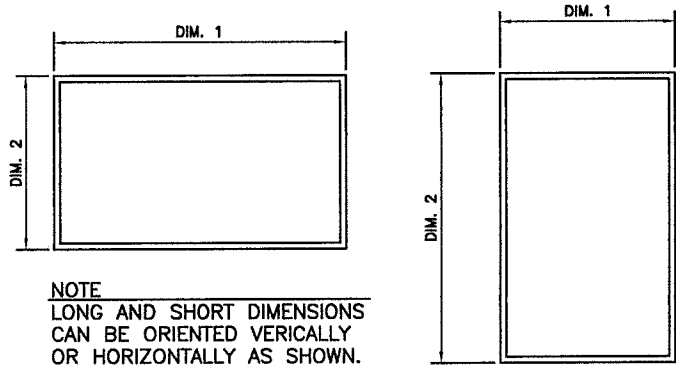
DESIGN LOAD CAPACITY - PSF									
DIM. 1 INCHES	DIM. 2 INCHES	GLASS TYPE 1A				GLASS TYPE 2A			
		ANCHOR OPTION 1		ANCHOR OPTION 2		ANCHOR OPTION 1		ANCHOR OPTION 2	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	48	120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
36		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
42		120.0	124.6	120.0	150.0	133.0	150.0	133.0	150.0
48		113.1	113.1	113.1	113.1	133.0	150.0	133.0	150.0
51		107.2	107.2	107.2	107.2	133.0	138.8	133.0	150.0
54		102.9	102.9	102.9	102.9	124.9	124.9	133.0	150.0
57		97.7	97.7	97.7	97.7	113.5	113.5	133.0	150.0
60		92.9	92.9	92.9	92.9	104.1	104.1	133.0	150.0
63		88.4	88.4	88.4	88.4	120.1	120.1	133.0	150.0
66		84.3	84.3	84.3	84.3	111.5	111.5	130.6	147.3
69	80.4	80.4	80.4	80.4	104.1	104.1	127.5	143.8	
72	75.1	75.1	75.1	75.1	97.6	97.6	124.7	140.6	
30	54	120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
36		120.0	128.4	120.0	128.4	133.0	138.8	133.0	150.0
42		112.2	112.2	112.2	112.2	129.7	129.7	133.0	150.0
48		102.9	102.9	102.9	102.9	124.9	124.9	133.0	150.0
51		98.5	98.5	98.5	98.5	123.7	123.7	133.0	150.0
54		94.5	94.5	94.5	94.5	123.3	123.3	133.0	150.0
57		90.0	90.0	90.0	90.0	111.0	111.0	133.0	150.0
60		85.9	85.9	85.9	85.9	100.9	100.9	133.0	150.0
63		82.0	82.0	82.0	82.0	115.6	115.6	129.3	145.8
66		78.2	78.2	78.2	78.2	106.7	106.7	125.0	141.0
69	74.9	74.9	74.9	74.9	99.1	99.1	118.9	118.9	
72	71.7	71.7	71.7	71.7	92.5	92.5	118.9	118.9	
30	60	120.0	133.2	120.0	149.5	133.0	133.2	133.0	150.0
36		117.6	117.6	117.6	117.6	118.9	118.9	133.0	150.0
42		101.7	101.7	101.7	101.7	109.8	109.8	133.0	150.0
48		92.9	92.9	92.9	92.9	104.1	104.1	133.0	150.0
51		89.2	89.2	89.2	89.2	102.2	102.2	133.0	150.0
54		85.9	85.9	85.9	85.9	100.9	100.9	133.0	150.0
57		83.3	83.3	83.3	83.3	100.2	100.2	133.0	150.0
60		80.4	80.4	80.4	80.4	99.9	99.9	133.0	150.0
63		77.0	77.0	77.0	77.0	99.9	99.9	107.0	107.0
66		74.0	74.0	74.0	74.0	99.9	99.9	107.0	107.0
69	72.9	72.9	72.9	72.9	96.1	96.1	107.0	107.0	
72	69.9	69.9	69.9	69.9	89.2	89.2	107.0	107.0	
30	66	120.0	141.6	120.0	141.6	133.0	146.9	133.0	150.0
36		108.0	108.0	108.0	108.0	130.1	130.1	133.0	150.0
42		92.8	92.8	92.8	92.8	118.9	118.9	133.0	150.0
48		84.3	84.3	84.3	84.3	111.5	111.5	130.6	147.3
51		80.3	80.3	80.3	80.3	108.8	108.8	127.5	143.8
54		78.2	78.2	78.2	78.2	106.7	106.7	125.0	141.0
57		76.1	76.1	76.1	76.1	105.2	105.2	112.6	112.6
60		74.0	74.0	74.0	74.0	99.9	99.9	107.0	107.0
63		73.0	73.0	73.0	73.0	103.4	103.4	101.9	101.9
66		70.3	70.3	70.3	70.3	103.2	103.2	97.3	97.3
69	67.8	67.8	67.8	67.8	94.6	94.6	97.3	97.3	
72	65.5	65.5	65.5	65.5	87.3	87.3	97.3	97.3	
30	72	120.0	131.5	120.0	134.1	131.5	131.5	133.0	150.0
36		100.2	100.2	100.2	100.2	115.6	115.6	133.0	150.0
42		84.7	84.7	84.7	84.7	104.9	104.9	133.0	150.0
48		75.1	75.1	75.1	75.1	97.6	97.6	124.7	140.6
51		73.4	73.4	73.4	73.4	94.8	94.8	125.9	125.9
54		71.7	71.7	71.7	71.7	92.5	92.5	118.9	118.9
57		72.3	72.3	72.3	72.3	90.7	90.7	112.6	112.6
60		69.9	69.9	69.9	69.9	89.2	89.2	107.0	107.0
63		67.6	67.6	67.6	67.6	88.1	88.1	101.9	101.9
66		65.5	65.5	65.5	65.5	87.3	87.3	97.3	97.3
69	64.1	64.1	64.1	64.1	86.9	86.9	93.0	93.0	
72	61.6	61.6	61.6	61.6	86.7	86.7	89.2	89.2	

NOTES:

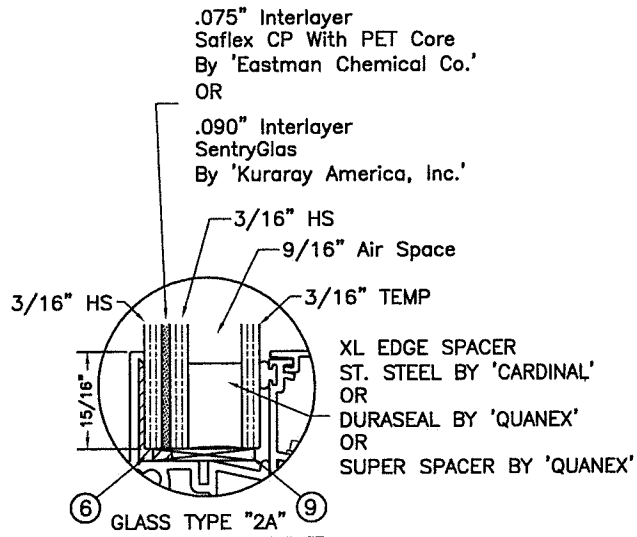
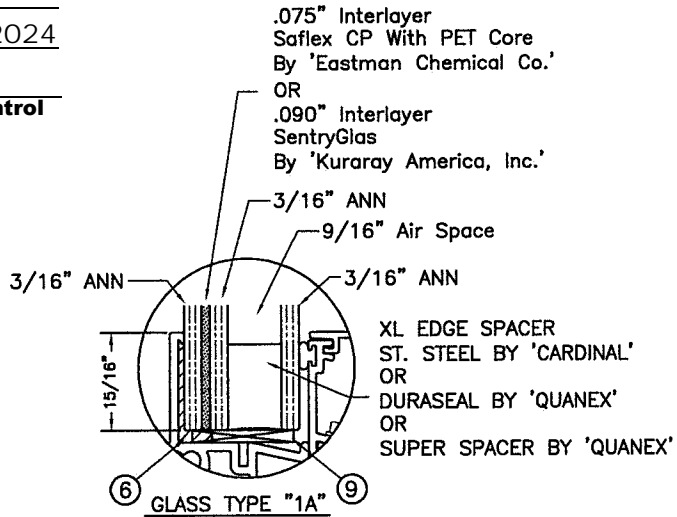
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).
2. FOR ANCHOR OPTIONS, SEE SHEETS 4 & 5.

DESIGN LOAD CAPACITY - PSF									
DIM. 1 INCHES	DIM. 2 INCHES	GLASS TYPE 1A				GLASS TYPE 2A			
		ANCHOR OPTION 1		ANCHOR OPTION 2		ANCHOR OPTION 1		ANCHOR OPTION 2	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	78	120.0	127.1	120.0	127.1	133.0	142.7	133.0	150.0
36		94.1	94.1	94.1	94.1	124.9	124.9	133.0	150.0
42		77.6	77.6	77.6	77.6	112.7	112.7	130.0	146.6
48		69.1	69.1	69.1	69.1	104.1	104.1	132.8	132.8
51		67.5	67.5	67.5	67.5	100.7	100.7	125.9	125.9
54		68.6	68.6	68.6	68.6	97.9	97.9	118.9	118.9
57		66.4	66.4	66.4	66.4	95.6	95.6	112.6	112.6
60		64.4	64.4	64.4	64.4	93.7	93.7	107.0	107.0
63		63.5	63.5	63.5	63.5	92.1	92.1	101.9	101.9
66		61.6	61.6	61.6	61.6	90.8	90.8	97.3	97.3
69	59.5	59.5	59.5	59.5	89.9	89.9	93.0	93.0	
72	57.6	57.6	57.6	57.6	86.7	86.7	89.2	89.2	
30	84	120.0	122.1	120.0	122.1	130.3	130.3	133.0	150.0
36		88.9	88.9	88.9	88.9	113.5	113.5	133.0	150.0
42		68.7	68.7	68.7	68.7	101.9	101.9	126.7	142.9
48		64.2	64.2	64.2	64.2	93.7	93.7	128.3	128.3
51		65.4	65.4	65.4	65.4	90.4	90.4	124.3	124.3
54		62.9	62.9	62.9	62.9	87.6	87.6	118.9	118.9
57		61.1	61.1	61.1	61.1	85.3	85.3	112.6	112.6
60		60.2	60.2	60.2	60.2	83.3	83.3	107.0	107.0
63		58.5	58.5	58.5	58.5	81.6	81.6	101.9	101.9
66		56.9	56.9	56.9	56.9	80.1	80.1	97.3	97.3
69	-	-	-	-	75.0	75.0	75.0	75.0	
72	-	-	-	-	75.0	75.0	75.0	75.0	
30	90	119.9	119.9	120.0	121.6	119.9	119.9	133.0	150.0
36		84.1	84.1	84.1	84.1	104.1	104.1	133.0	150.0
42		65.8	65.8	65.8	65.8	93.1	93.1	131.5	131.5
48		63.3	63.3	63.3	63.3	85.1	85.1	125.4	125.4
51		60.3	60.3	60.3	60.3	82.0	82.0	120.6	120.6
54		58.1	58.1	58.1	58.1	79.3	79.3	116.8	116.8
57		57.0	57.0	57.0	57.0	76.9	76.9	112.6	112.6
60		55.3	55.3	55.3	55.3	74.9	74.9	107.0	107.0
63		53.6	53.6	53.6	53.6	73.2	73.2	101.9	101.9
66		-	-	-	-	71.7	71.7	75.0	75.0
69	-	-	-	-	70.4	70.4	75.0	75.0	
72	-	-	-	-	69.4	69.4	75.0	75.0	
30	96	120.0	129.5	120.0	120.0	129.5	142.7	133.0	150.0
36		75.1	75.1	75.1	75.1	112.1	112.1	133.0	150.0
42		63.3	63.3	63.3	63.3	99.9	99.9	126.7	126.7
48		58.9	58.9	58.9	58.9	91.1	91.1	120.0	120.0
51		56.9	56.9	56.9	56.9	87.5	87.5	117.8	117.8
54		54.4	54.4	54.4	54.4	84.5	84.5	113.7	113.7
57		52.4	52.4	52.4	52.4	81.8	81.8	110.1	110.1
60		50.3	50.3	50.3	50.3	79.5	79.5	106.2	106.2
63		-	-	-	-	75.0	75.0	75.0	75.0
66		-	-	-	-	75.0	75.0	75.0	75.0
69	-	-	-	-	74.2	74.2	75.0	75.0	
72	-	-	-	-	72.8	72.8	75.0	75.0	
30	102	117.7	117.7	117.7	117.7	120.6	120.6	133.0	150.0
36		73.6	73.6	73.6	73.6	104.1	104.1	133.0	147.2
42		63.8	63.8	63.8	63.8	92.5	92.5	127.5	127.5
48		55.2	55.2	55.2	55.2	84.1	84.1	116.5	116.5
51		52.8	52.8	52.8	52.8	80.7	80.7	111.4	111.4
54		50.4	50.4	50.4	50.4	77.7	77.7	106.4	106.4
57		-	-	-	-	75.0	75.0	75.0	75.0
60		-	-	-	-	72.8	72.8	75.0	75.0
63		-	-	-	-	70.9	70.9	75.0	75.0
66		-	-	-	-	69.1	69.1	75.0	75.0
69	-	-	-	-	67.6	67.6	75.0	75.0	
72	-	-	-	-	66.2	66.2	75.0	75.0	


DESIGN LOAD CAPACITY - PSF									
DIM. 1 INCHES	DIM. 2 INCHES	CLASS TYPE 1A				CLASS TYPE 2A			
		ANCHOR OPTION 1		ANCHOR OPTION 2		ANCHOR OPTION 1		ANCHOR OPTION 2	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	108	112.8	112.8	114.8	114.8	112.8	112.8	133.0	150.0
36		73.8	73.8	73.8	73.8	97.1	97.1	133.0	147.1
42		60.6	60.6	60.6	60.6	86.1	86.1	121.1	121.1
48		52.4	52.4	52.4	52.4	78.1	78.1	110.6	110.6
51		49.3	49.3	49.3	49.3	74.8	74.8	104.2	104.2
54		-	-	-	-	71.9	71.9	75.0	75.0
57		-	-	-	-	69.4	69.4	75.0	75.0
60		-	-	-	-	67.2	67.2	75.0	75.0
63		-	-	-	-	65.3	65.3	75.0	75.0
66		-	-	-	-	63.6	63.6	75.0	75.0
69	-	-	-	-	62.1	62.1	75.0	75.0	
72	-	-	-	-	60.7	60.7	75.0	75.0	
30	114	111.3	111.3	111.3	111.3	121.1	121.1	133.0	150.0
36		73.8	73.8	73.8	73.8	104.1	104.1	133.0	145.6
42		57.9	57.9	57.9	57.9	92.1	92.1	120.0	120.0
48		49.6	49.6	49.6	49.6	83.3	83.3	104.7	104.7
51		-	-	-	-	75.0	75.0	75.0	75.0
54		-	-	-	-	75.0	75.0	75.0	75.0
57		-	-	-	-	73.8	73.8	75.0	75.0
60		-	-	-	-	71.4	71.4	75.0	75.0
63		-	-	-	-	69.2	69.2	75.0	75.0
66		-	-	-	-	67.3	67.3	75.0	75.0
69	-	-	-	-	65.6	65.6	75.0	75.0	
72	-	-	-	-	64.0	64.0	75.0	75.0	
30	120	107.7	107.7	107.7	107.7	114.2	114.2	133.0	150.0
36		73.6	73.6	73.6	73.6	97.9	97.9	133.0	144.2
42		55.8	55.8	55.8	55.8	86.5	86.5	117.8	117.8
48		47.1	47.1	47.1	47.1	78.1	78.1	99.5	99.5
51		-	-	-	-	74.6	74.6	75.0	75.0
54		-	-	-	-	71.6	71.6	75.0	75.0
57		-	-	-	-	69.0	69.0	75.0	75.0
60		-	-	-	-	66.6	66.6	75.0	75.0
63		-	-	-	-	64.5	64.5	75.0	75.0
66		-	-	-	-	62.6	62.6	75.0	75.0
69	-	-	-	-	61.0	61.0	75.0	75.0	
72	-	-	-	-	59.5	59.5	75.0	75.0	



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16
Expiration Date 06/03/2024
By CS
Miami-Dade Product Control



GLASS TYPES AVAILABLE

Title: SERIES 410 FIXED WINDOW - LM			Drawn By: AGK		
Description: LOAD CAPACITY - INSULATED GLASS			Date: 06/05/19	WinDoor® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	
Revision: NO CHANGES THIS SHEET.			Rev. By: JR	Rev. Date: 05/07/20	
Series/Model: PW-410 LM	Scale: NTS	Sheet: 3 OF 11	Drawing No. PW410LMI-NOA	Rev: A	
PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296					A. LYNN MILLER, P.E. P.E.# 58705

TYPICAL ANCHORS: ALSO SEE NEXT SHEET. SEE ELEV. FOR SPACING.

TYPE 'A'

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

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD, 1" MIN. EDGE DISTANCE

THRU 1BY BUCKS INTO CONC. OR HOLLOW BLOCKS
1-3/8" MIN. EMBED INTO CONCRETE, 2-1/2" MIN. EDGE DISTANCE
1-1/4" MIN. EMBED INTO HOLLOW BLOCKS, 2-1/2" MIN. EDGE DISTANCE

TYPE 'B'

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, 1" MIN. EDGE DISTANCE

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC., 2-1/2" MIN. EDGE DISTANCE
1-3/4" MIN. EMBED INTO FILLED BLOCKS, 2-1/2" MIN. EDGE DISTANCE

TYPE 'B+'

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

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1" MIN. PENETRATION INTO WOOD, 1" MIN. EDGE DISTANCE

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1" MIN. EMBED INTO CONC., 2-1/2" MIN. EDGE DISTANCE
1-3/4" MIN. EMBED INTO FILLED BLOCKS, 2-1/2" MIN. EDGE DISTANCE

TYPE 'C'

5/16" DIA. ULTRACON BY 'ELCO/DEWALT' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD, 1-1/4" MIN. EDGE DISTANCE

THRU 1BY BUCKS INTO CONC. OR HOLLOW BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE, 3-1/8" MIN. EDGE DISTANCE
1-1/4" MIN. EMBED INTO HOLLOW BLOCKS, 3-1/8" MIN. EDGE DISTANCE

ANCHOR OPTION 1:

ALL ANCHORS AS SHOWN ON SHEETS 4 & 5.

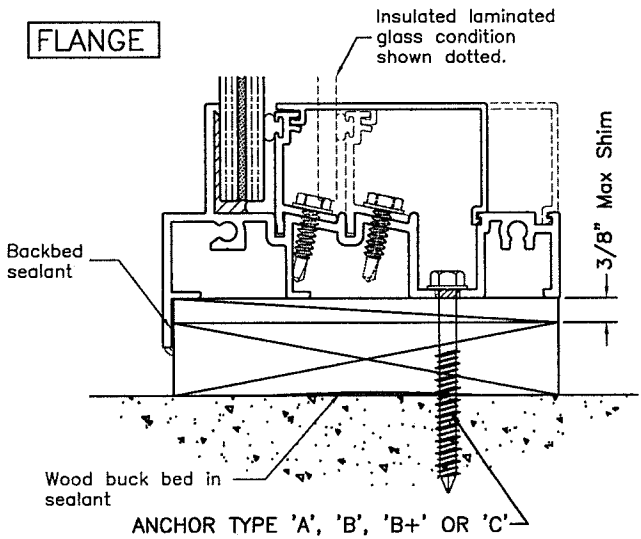
ANCHOR OPTION 2:

ANCHOR TYPES 'C' WITH 1/2" SHIM SPACE.
ANCHOR TYPES 'AA', 'BB', 'BBB', 'BB+', 'BBB+', 'D' & 'E' WITH 1/4" SHIM SPACE.

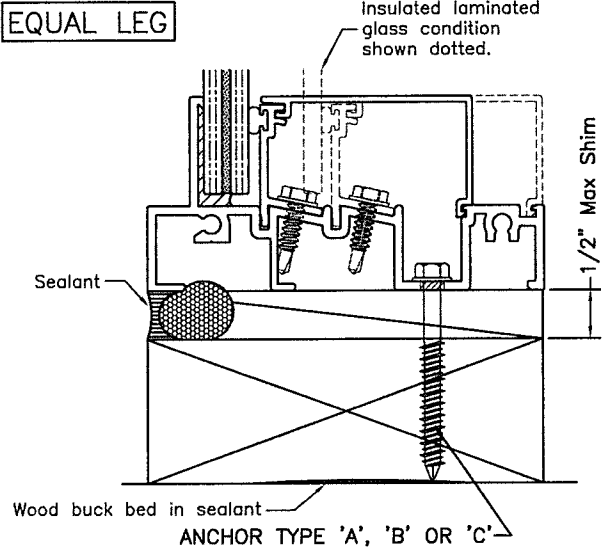
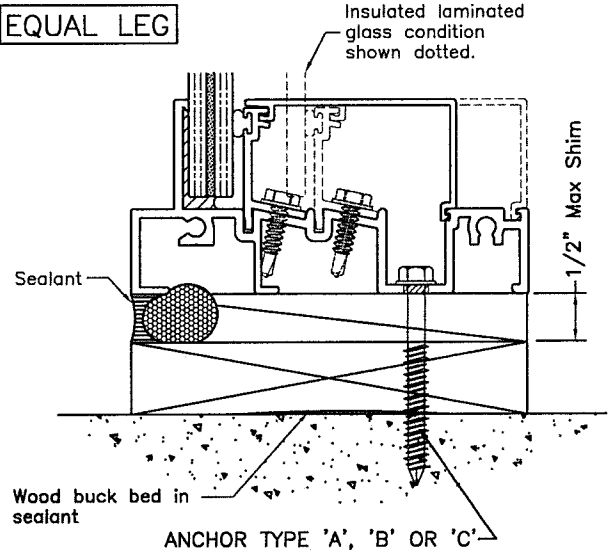
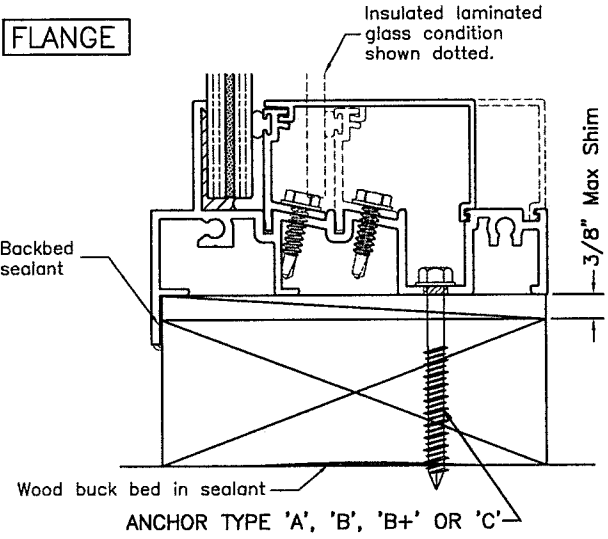
CONCRETE f'c = 3000 PSI MIN.
CONCRETE BLOCKS f'm = 2000 PSI MIN.

TYPICAL INSTALLATION DETAILS, ALSO SEE NEXT SHEET
THESE DETAILS ARE TYPICAL ON ALL FOUR SIDES OF WINDOW

INSTALLATION DETAILS THRU 1X
WOOD BUCKS INTO CONCRETE



INSTALLATION DETAILS INTO 2X WOOD
BUCKS OR INTO WOOD STRUCTURES



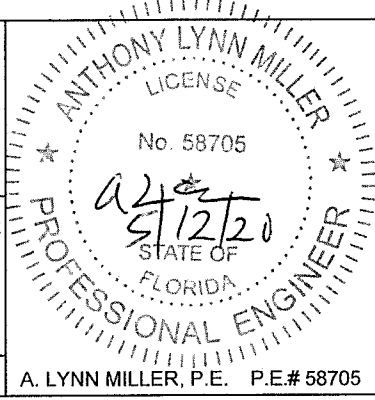
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16

Expiration Date 06/03/2024

By *[Signature]*
Miami-Dade Product Control

Title: SERIES 410 FIXED WINDOW - LM			Drawn By: AGK		WinDoor® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400
Description: CURB/ANCHOR INSTALLATIONS 1			Date: 06/05/19		
Revision: REFORMAT SHEET, ADD ANCHOR TYPE.			Rev. By: JR	Rev. Date: 05/07/20	PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296
Series/Model: PW-410 LM	Scale: NTS	Sheet: 4 OF 11	Drawing No. PW410LMI-NOA		

ANTHONY LYNN MILLER LICENSE No. 58705 a2 5/12/20 STATE OF FLORIDA PROFESSIONAL ENGINEER A. LYNN MILLER, P.E. P.E.# 58705
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TYPICAL ANCHORS: ALSO SEE PREVIOUS SHEET. SEE ELEV. FOR SPACING.

TYPE 'AA'

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

DIRECTLY INTO CONCRETE

1-3/8" MIN. EMBED INTO CONCRETE, 2-1/2" MIN. EDGE DISTANCE

TYPE 'BB'

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

DIRECTLY INTO CONC.

1-3/8" MIN. EMBED INTO CONC., 2-1/2" MIN. EDGE DISTANCE

TYPE 'BB+'

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

DIRECTLY INTO CONC.

1-3/8" MIN. EMBED INTO CONC., 2-1/2" MIN. EDGE DISTANCE

TYPE 'BBB'

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

DIRECTLY INTO HOLLOW BLOCKS

1-1/4" MIN. EMBED INTO HOLLOW BLOCKS, 2-1/2" MIN. EDGE DISTANCE

TYPE 'BBB+'

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

DIRECTLY INTO HOLLOW BLOCKS

1-1/4" MIN. EMBED INTO HOLLOW BLOCKS, 2-1/2" MIN. EDGE DISTANCE

TYPE 'D'

#14 SMS (GRADE 2 CRS)

INTO METAL STRUCTURES

STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.), 2-1/2" MIN. EDGE DISTANCE

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.), 2-1/2" MIN. EDGE DISTANCE

TYPE 'E'

1/4" DRIL-FLEX SELF DRILLING SCREWS (GRADE 2 CRS)

INTO METAL STRUCTURES

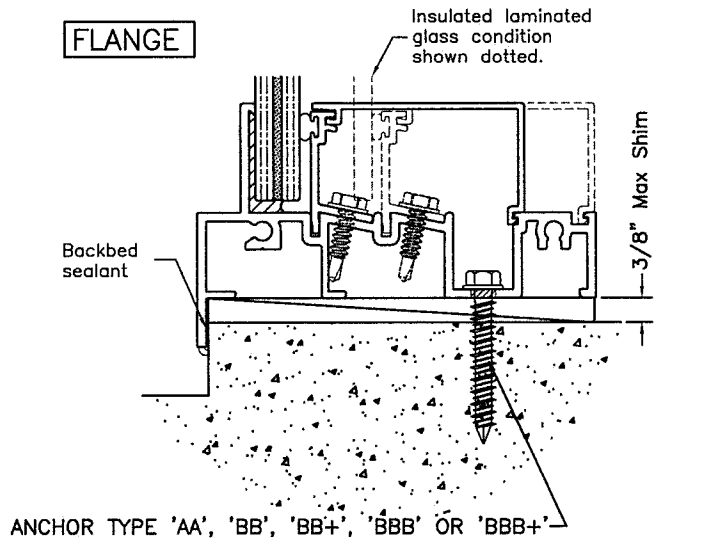
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.), 2-1/2" MIN. EDGE DISTANCE

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.), 2-1/2" MIN. EDGE DISTANCE

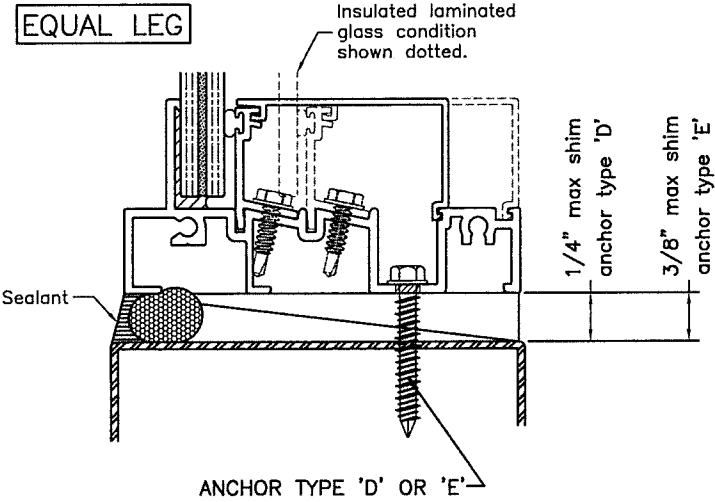
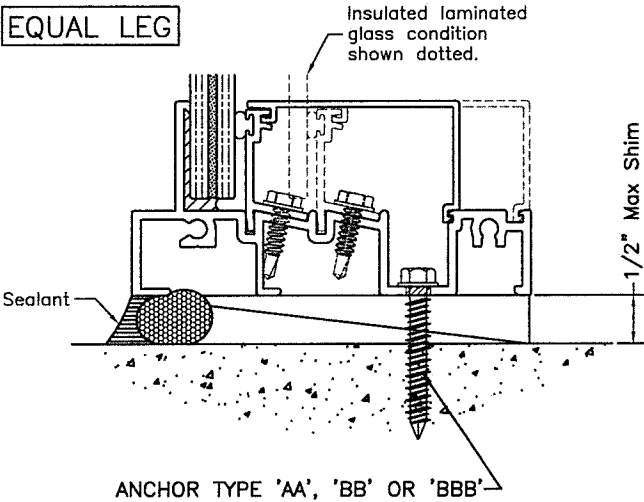
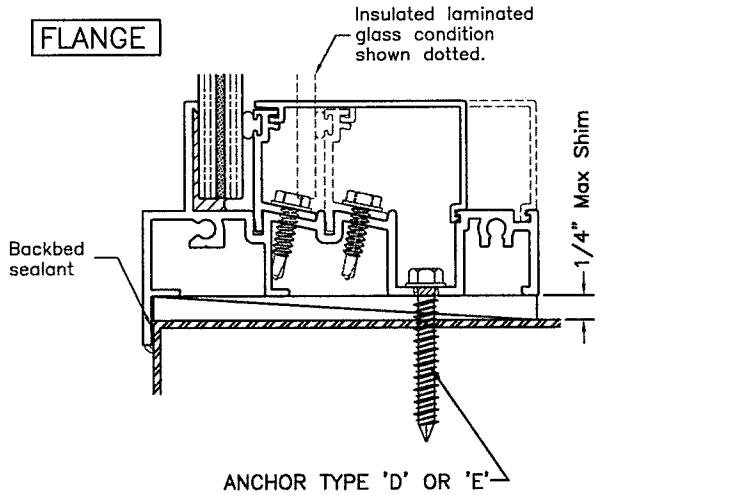
TYPICAL INSTALLATION DETAILS, ALSO SEE PREVIOUS SHEET

THESE DETAILS ARE TYPICAL ON ALL FOUR SIDES OF WINDOW

INSTALLATION DETAILS
DIRECTLY INTO CONCRETE



INSTALLATION DETAILS INTO METAL
STRUCTURES OR INTO APPROVED MULLIONS



(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .125")

ANCHOR OPTION 1:

ALL ANCHORS AS SHOWN ON SHEETS 4 & 5.

ANCHOR OPTION 2:

ANCHOR TYPES 'C' WITH 1/2" SHIM SPACE.

ANCHOR TYPES 'AA', 'BB', 'BBB', 'BB+', 'BBB+', 'D' & 'E' WITH 1/4" SHIM SPACE.

CONCRETE f'c = 3000 PSI MIN.

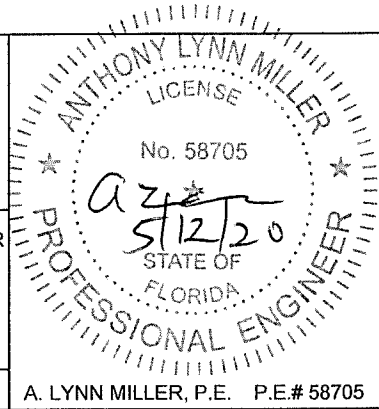
CONCRETE BLOCKS f'm = 2000 PSI MIN.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16

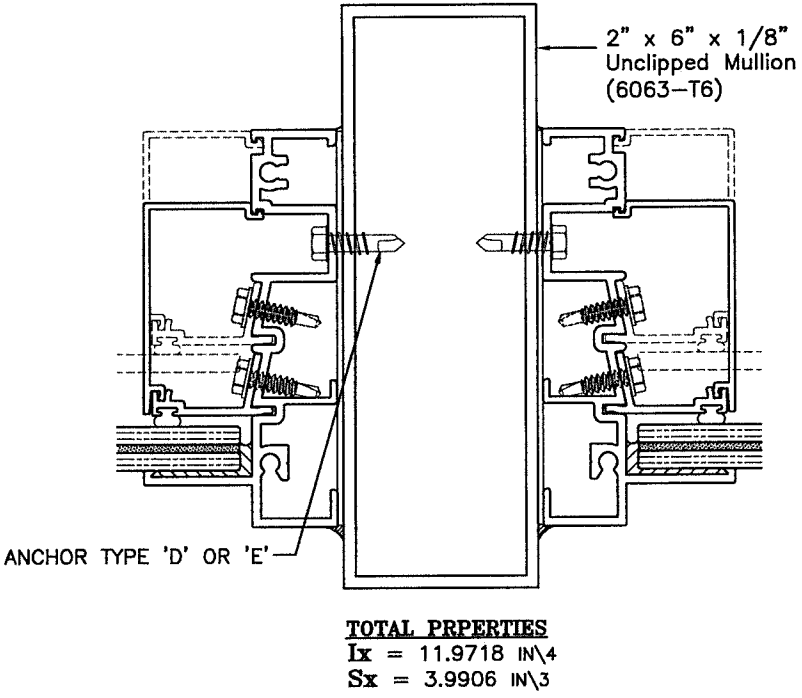
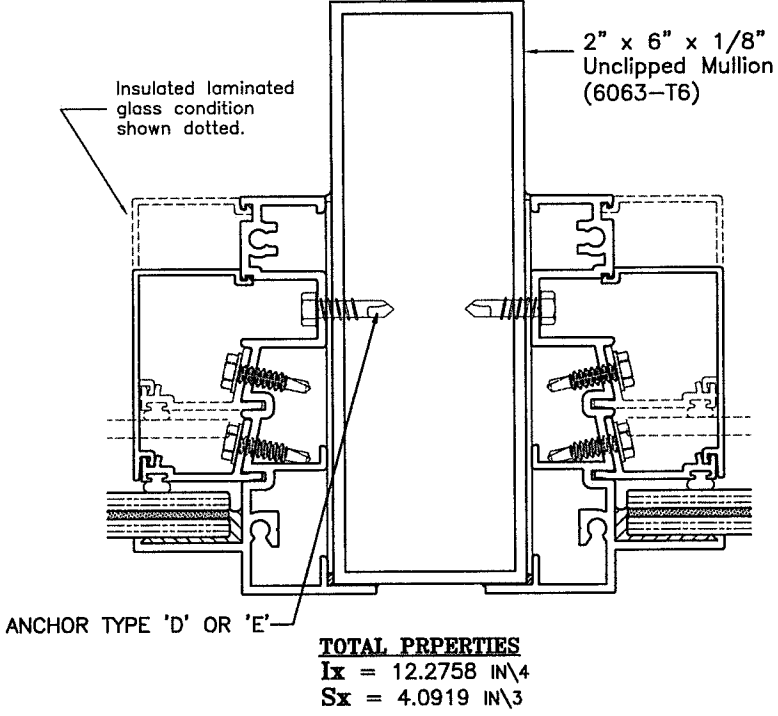
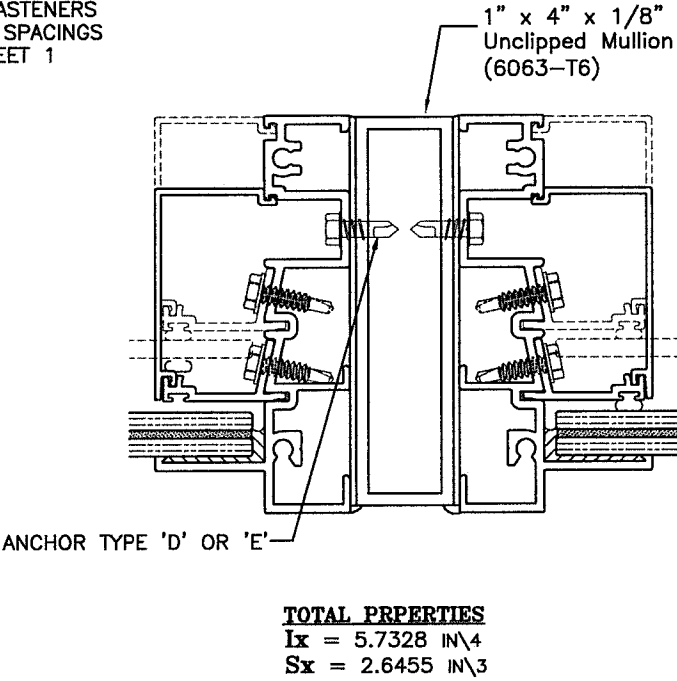
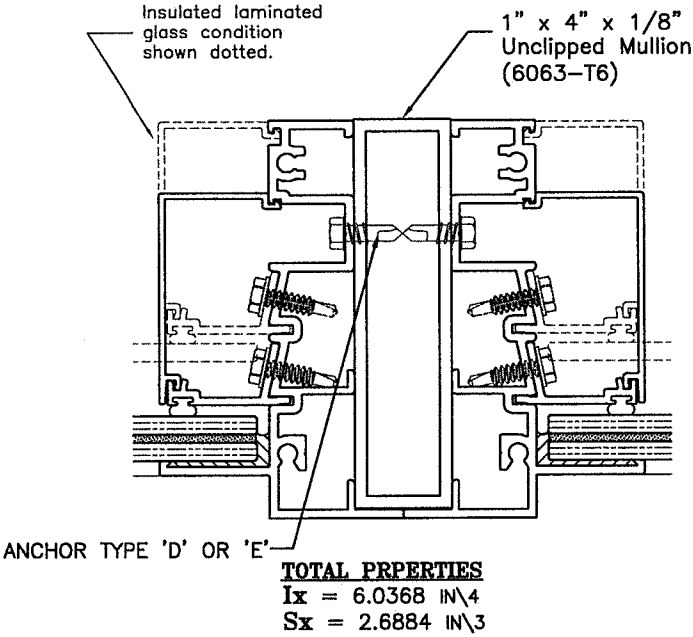
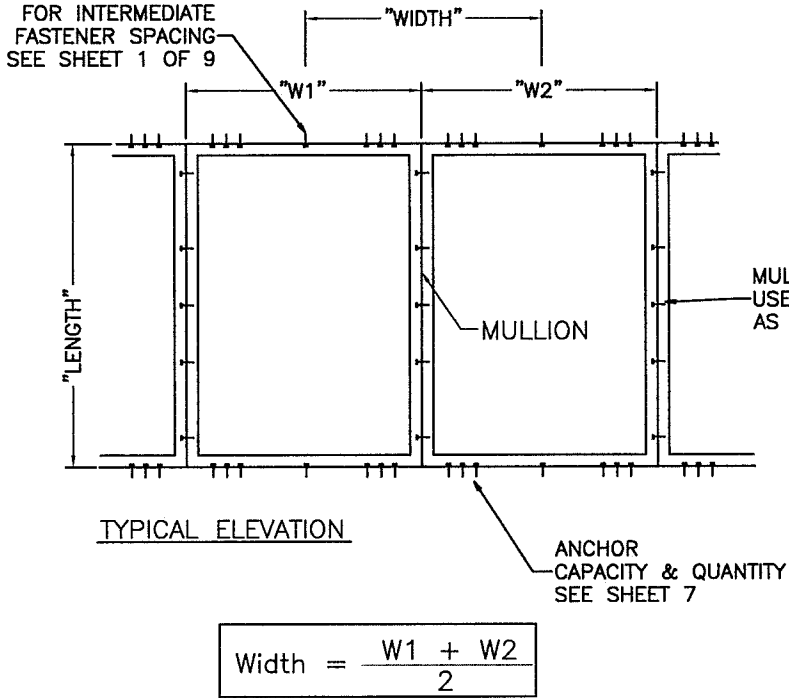
Expiration Date 06/03/2024

By
Miami-Dade Product Control

Title: SERIES 410 FIXED WINDOW - LM				Drawn By: AGK		WinDoor® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400 PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296
Description: CURB/ANCHOR INSTALLATIONS 2				Date: 06/05/19		
Revision: NEW SHEET, ADDED ANCHOR TYPE.				Rev. By: JR	Rev. Date: 05/07/20	
Series/Model: PW-410 LM	Scale: NTS	Sheet: 5 OF 11	Drawing No. PW410LMI-NOA		Rev: A	



DESIGN LOAD CAPACITY - PSF (MULLION)			
WINDOW DIMS		1" X 4" X 1/8" ALUM TUBE	2" X 6" X 1/8" ALUM TUBE
WIDTH	LENGTH	EXT. (+) & INT. (-)	EXT. (+) & INT. (-)
36"	72"	150.0	150.0
42"		150.0	150.0
48"		150.0	150.0
54"		150.0	150.0
60"		150.0	150.0
66"		150.0	150.0
72"		150.0	150.0
36"	84"	150.0	150.0
42"		139.1	150.0
48"		125.2	150.0
54"		115.1	150.0
60"		107.7	150.0
66"		102.4	150.0
72"		-	150.0
36"	96"	117.8	150.0
42"		102.8	150.0
48"		91.8	141.4
54"		93.6	128.8
60"		77.4	119.3
66"		-	112.0
72"		-	106.5
36"	102"	-	150.0
42"		-	138.3
48"		-	123.2
54"		-	111.9
60"		-	103.2
66"		-	96.5
72"		-	91.3
36"	108"	-	140.2
42"		-	121.8
48"		-	108.3
54"		-	98.0
60"		-	90.2
66"		-	84.0
72"		-	79.2
36"	114"	-	124.6
42"		-	108.0
48"		-	95.9
54"		-	86.7
60"		-	79.5
66"		-	73.8
72"		-	69.4
36"	120"	-	111.4
42"		-	96.5
48"		-	85.5
54"		-	77.1
60"		-	70.6
66"		-	65.4
72"		-	61.3



ANY SIZE OR DESIGN LOAD LESS THAN CHART IS ALLOWED.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16
Expiration Date 06/03/2024
By CS
Miami-Dade Product Control

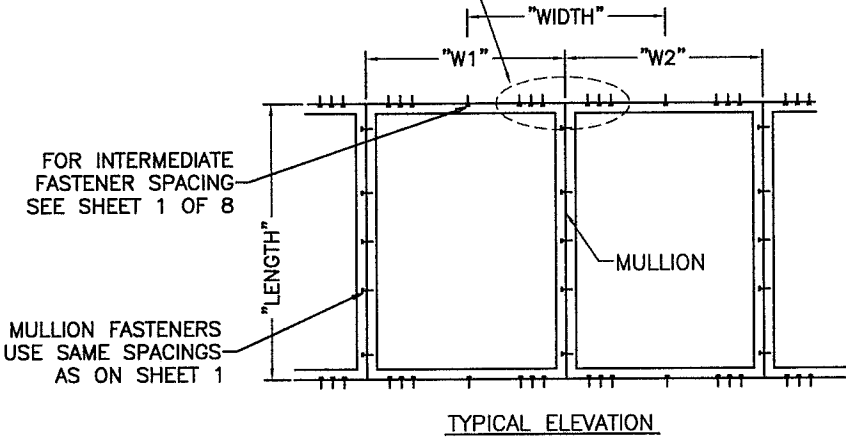
Title: SERIES 410 FIXED WINDOW - LM		Drawn By: AGK		WinDoor® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400 PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296
Description: MULLION LOAD CAPACITY 1		Date: 06/05/19		
Revision: NO CHANGES THIS SHEET.		Rev. By: JR		
Rev. Date: 05/07/20		Rev:		
Series/Model: PW-410 LM	Scale: NTS	Sheet: 6 OF 11	Drawing No. PW410LMI-NOA	Rev: A

ANTHONY LYNN MILLER
LICENSE
No. 58705
A21
5/12/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E. P.E.# 58705

DESIGN LOAD CAPACITY - PSF (ANCHORS AT EACH SIDE OF MULLION)													
		ANCHOR TYPE A			ANCHOR TYPE AA			ANCHOR TYPES A & AA			ANCHOR TYPES A & AA		
WINDOW DIMS.		1/4" SHIM			1/4" SHIM			3/8" SHIM			1/2" SHIM		
WIDTH	LENGTH	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE
36"	72"	116.4	150.0	150.0	150.0	150.0	150.0	112.7	150.0	150.0	88.2	132.3	150.0
42"		99.8	149.7	150.0	150.0	150.0	150.0	96.6	144.9	150.0	75.6	113.4	150.0
48"		87.3	131.0	150.0	134.3	150.0	150.0	84.5	126.8	150.0	66.1	99.2	132.3
54"		77.6	116.4	150.0	119.4	150.0	150.0	75.1	112.7	150.0	58.8	88.2	117.6
60"		69.9	104.8	139.7	107.5	150.0	150.0	67.6	101.4	135.2	52.9	79.4	105.8
66"		63.5	95.3	127.0	97.7	146.5	150.0	61.5	92.2	122.9	48.1	72.1	96.2
72"		58.2	87.3	116.4	89.6	134.3	150.0	56.3	84.5	112.7	44.1	66.1	88.2
36"	84"	99.8	149.7	150.0	150.0	150.0	150.0	96.6	144.9	150.0	75.6	113.4	150.0
42"		85.6	128.3	150.0	131.6	150.0	150.0	82.8	124.2	150.0	64.8	97.2	129.6
48"		74.9	112.3	149.7	115.1	150.0	150.0	72.4	108.6	144.9	56.7	85.0	113.4
54"		66.5	99.8	133.1	102.3	150.0	150.0	64.4	96.6	128.8	50.4	76.5	100.8
60"		59.9	89.8	119.8	92.1	138.2	150.0	57.9	86.9	115.9	45.3	68.0	90.7
66"		54.4	81.7	108.9	83.7	125.6	150.0	52.7	79.0	105.4	41.2	61.8	82.5
72"		49.9	74.9	99.8	76.8	115.1	150.0	48.3	72.4	96.6	37.8	56.7	75.6
36"	96"	87.3	131.0	150.0	134.3	150.0	150.0	84.5	126.8	150.0	66.1	99.2	132.3
42"		74.9	112.3	149.7	115.1	150.0	150.0	72.4	108.6	144.9	56.7	85.0	113.4
48"		65.5	98.3	131.0	100.8	150.0	150.0	63.4	95.1	126.8	49.6	74.4	99.2
54"		58.2	87.3	116.4	89.6	134.3	150.0	56.3	84.5	112.7	44.1	66.1	88.2
60"		52.4	78.6	104.8	80.6	120.9	150.0	50.7	76.1	101.4	39.7	59.5	79.4
66"		47.6	71.5	95.3	73.3	109.9	146.5	46.1	69.1	92.2	36.1	54.1	72.1
72"		43.7	65.5	87.3	67.2	100.8	134.3	42.3	63.4	84.5	33.1	49.6	66.1
36"	102"	82.2	123.3	150.0	126.4	150.0	150.0	79.5	119.3	150.0	62.2	93.4	124.5
42"		70.5	105.7	140.9	108.4	150.0	150.0	68.2	102.3	136.3	53.4	80.0	106.7
48"		61.6	92.5	123.3	94.8	142.2	150.0	59.6	89.5	119.3	46.7	70.0	93.4
54"		54.8	82.2	109.6	84.3	126.4	150.0	53.0	79.5	106.0	41.5	62.2	83.0
60"		49.3	74.0	98.6	75.9	113.8	150.0	47.7	71.6	95.4	37.3	56.0	74.7
66"		44.8	67.3	89.7	69.0	103.4	137.9	43.4	65.1	86.8	34.0	50.9	67.9
72"		41.1	61.6	82.2	63.2	94.8	126.4	39.8	59.6	79.5	31.1	46.7	62.2
36"	108"	77.6	116.4	150.0	119.4	150.0	150.0	75.1	112.7	150.0	58.8	88.2	117.6
42"		66.5	99.8	133.1	102.3	150.0	150.0	64.4	96.6	128.8	50.4	75.6	100.8
48"		58.2	87.3	116.4	89.6	134.3	150.0	56.3	84.5	112.7	44.1	66.1	88.2
54"		51.8	77.6	103.5	79.6	119.4	150.0	50.1	75.1	100.1	39.2	58.8	78.4
60"		46.6	69.9	93.2	71.6	107.5	143.3	45.1	67.6	90.1	35.3	52.9	70.5
66"		42.3	63.5	84.7	65.1	97.7	130.3	41.0	61.5	81.9	32.1	48.1	64.1
72"		38.8	58.2	77.6	59.7	89.6	119.4	37.6	56.3	75.1	29.4	44.1	58.8
36"	114"	73.5	110.3	147.1	113.1	150.0	150.0	71.2	106.7	142.3	55.7	83.5	111.4
42"		63.0	94.6	126.1	97.0	145.4	150.0	61.0	91.5	122.0	47.7	71.6	95.5
48"		55.2	82.7	110.3	84.8	27.3	150.0	53.4	80.1	106.7	41.8	62.7	83.5
54"		49.0	73.5	98.1	75.4	113.1	150.0	47.4	71.2	94.9	37.1	55.7	74.3
60"		44.1	66.2	88.3	67.9	101.8	135.7	42.7	64.0	85.4	33.4	50.1	66.8
66"		40.1	60.2	80.2	61.7	92.6	123.4	38.8	58.2	77.6	30.4	45.6	60.8
72"		36.8	55.2	73.5	56.6	84.8	113.1	35.6	53.4	71.2	27.8	41.8	55.7
36"	120"	69.9	104.8	139.7	107.5	150.0	150.0	67.6	101.4	135.2	52.9	79.4	105.8
42"		59.9	89.8	119.8	92.1	138.2	150.0	57.9	86.9	115.9	45.3	68.0	90.7
48"		52.4	78.6	104.8	80.6	120.9	150.0	50.7	76.1	101.4	39.7	59.5	79.4
54"		46.6	69.9	93.2	71.6	107.5	143.3	45.1	67.6	90.1	35.3	52.9	70.5
60"		41.9	62.9	83.8	64.5	96.7	129.0	40.6	60.8	81.1	31.7	47.6	63.5
66"		38.1	57.2	76.2	58.6	87.9	117.2	36.9	55.3	73.7	28.9	43.3	57.7
72"		34.9	52.4	69.9	53.7	80.6	107.5	33.8	50.7	67.6	26.5	39.7	52.9

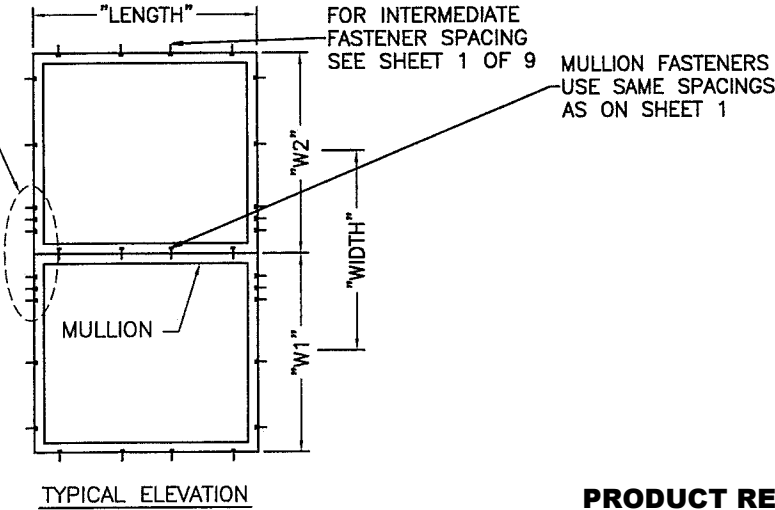
INTERPOLATION FROM THESE CHARTS IS ALLOWED.

2, 3 OR 4 SCREWS ON EACH SIDE
OF MULLION (REFER TO CHARTS)



2, 3 OR 4 SCREWS ON EACH SIDE
OF MULLION (REFER TO CHARTS)

$$\text{Width} = \frac{W1 + W2}{2}$$



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16
Expiration Date 06/03/2024
By
Miami-Dade Product Control

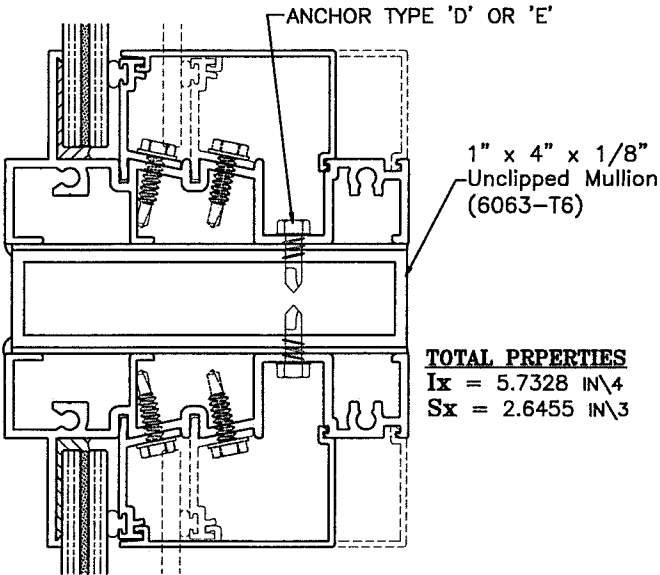
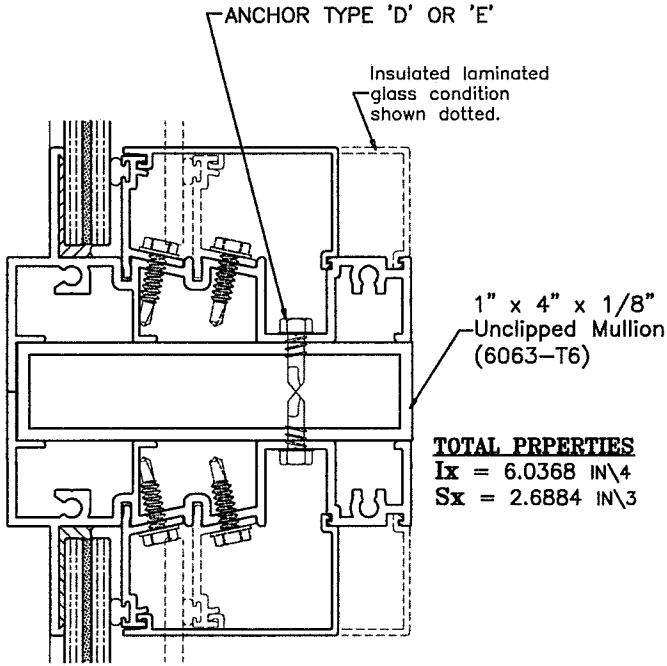
Title: SERIES 410 FIXED WINDOW - LM				Drawn By: AGK		WinDoor® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400
Description: MULLION LOAD CAPACITY 2				Date: 06/05/19		
Revision: NO CHANGES THIS SHEET.				Rev. By: JR	Rev. Date: 05/07/20	PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275
Series/Model: PW-410 LM	Scale: NTS	Sheet: 7 OF 11	Drawing No. PW410LMI-NOA	Rev: A	(941) 480-1600	 A. LYNN MILLER, P.E. P.E.# 58705
REGISTRATION #29296						

DESIGN LOAD CAPACITY - PSF (ANCHORS AT EACH SIDE OF MULLION)

		ANCHOR TYPES B & B+			ANCHOR TYPES BB & BB+			ANCHOR TYPES BBB & BBB+			ANCHORS TYPES B, BB, BBB, B+, BB+ & BBB+			ANCHORS TYPES B, BB, BBB, B+, BB+ & BBB+			ANCHOR TYPE C			ANCHOR TYPE D & E			ANCHOR TYPE E		
WINDOW DIMS.		1/4" SHIM			1/4" SHIM			1/4" SHIM			3/8" SHIM			1/2" SHIM			1/2" SHIM			1/4" SHIM			3/8" SHIM		
WIDTH	LENGTH	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE	2 / SIDE	3 / SIDE	4 / SIDE
36"	72"	105.8	150.0	150.0	150.0	150.0	150.0	131.1	150.0	150.0	89.2	133.8	150.0	69.4	104.1	138.8	128.9	150.0	150.0	150.0	150.0	150.0	82.8	124.2	150.0
42"		90.7	136.0	150.0	129.5	150.0	150.0	112.4	150.0	150.0	76.5	114.7	150.0	59.5	89.2	118.9	110.5	150.0	150.0	145.9	150.0	150.0	71.0	106.5	141.9
48"		79.3	119.0	150.0	113.3	150.0	150.0	98.3	147.5	150.0	66.9	100.4	133.8	52.0	78.1	104.1	96.7	145.0	150.0	127.7	150.0	150.0	62.1	93.2	124.2
54"		70.5	105.8	141.0	100.7	150.0	150.0	87.4	131.1	150.0	59.5	89.2	118.9	46.3	69.4	92.5	85.9	128.9	150.0	113.5	150.0	150.0	55.2	82.8	110.4
60"		63.5	95.2	126.9	90.7	136.0	150.0	78.7	118.0	150.0	53.5	80.3	107.0	41.6	62.4	83.3	77.3	116.0	150.0	102.1	150.0	150.0	49.7	74.5	99.4
66"		57.7	86.5	115.4	82.4	123.6	150.0	71.5	107.3	143.0	48.7	73.0	97.3	37.8	56.8	75.7	70.3	105.5	140.6	92.8	139.3	150.0	45.2	67.7	90.3
72"		52.9	79.3	105.8	75.6	113.3	150.0	65.6	98.3	131.1	44.6	66.9	89.2	34.7	52.0	69.4	64.4	96.7	128.9	85.1	127.7	150.0	41.4	62.1	82.8
36"	84"	90.7	136.0	150.0	129.5	150.0	150.0	112.4	150.0	150.0	76.5	114.7	150.0	59.5	89.2	118.9	110.5	150.0	150.0	145.9	150.0	150.0	71.0	106.5	141.9
42"		77.7	116.6	150.0	111.0	150.0	150.0	96.3	144.5	150.0	65.5	98.3	131.1	51.0	76.5	101.9	94.7	142.0	150.0	125.1	150.0	150.0	60.8	91.2	121.7
48"		68.0	102.0	136.0	97.1	145.7	150.0	84.3	126.4	150.0	57.3	86.0	114.7	44.6	66.9	89.2	82.9	124.3	150.0	109.4	150.0	150.0	53.2	79.8	106.5
54"		60.4	90.7	120.9	86.3	129.5	150.0	74.9	112.4	149.8	51.0	76.5	101.9	39.6	59.5	79.3	73.7	110.5	147.3	97.3	145.9	150.0	47.3	71.0	94.6
60"		54.4	81.6	108.8	77.7	116.6	150.0	67.4	101.1	134.9	45.9	68.8	91.7	35.7	53.5	71.4	66.3	99.4	132.6	87.5	131.3	150.0	42.6	63.9	85.2
66"		49.5	74.2	98.9	70.6	106.0	141.3	61.3	91.9	122.6	41.7	62.6	83.4	32.4	48.7	64.9	60.3	90.4	120.5	79.6	119.4	150.0	38.7	58.1	77.4
72"		45.3	68.0	90.7	64.8	97.1	129.5	56.2	84.3	112.4	38.2	57.3	76.5	29.7	44.6	59.5	55.2	82.9	110.5	73.0	109.4	145.9	35.5	53.2	71.0
36"	96"	79.3	119.0	150.0	113.3	150.0	150.0	98.3	147.5	150.0	66.9	100.4	133.8	52.0	78.1	104.1	96.7	145.0	150.0	127.7	150.0	150.0	62.1	93.2	124.2
42"		68.0	102.0	136.0	97.1	145.7	150.0	84.3	126.4	150.0	57.3	86.0	114.7	44.6	66.9	89.2	82.9	124.3	150.0	109.4	150.0	150.0	53.2	79.8	106.5
48"		59.5	89.3	119.0	85.0	127.5	150.0	73.8	110.6	147.5	50.2	75.3	100.4	39.0	58.5	78.1	72.5	108.8	145.0	95.8	143.6	150.0	46.6	69.9	93.2
54"		52.9	79.3	105.8	75.6	113.3	150.0	65.6	98.3	131.1	44.6	66.9	89.2	34.7	52.0	69.4	64.4	96.7	128.9	85.1	127.7	150.0	41.4	62.1	82.8
60"		47.6	71.4	95.2	68.0	102.0	136.0	59.0	88.5	118.0	40.1	60.2	80.3	31.2	46.8	62.4	58.0	87.0	116.0	76.6	114.9	150.0	37.3	55.9	74.5
66"		43.3	64.9	86.5	61.8	92.7	123.6	53.6	80.5	107.3	36.5	54.7	73.0	28.4	42.6	56.8	52.7	79.1	105.5	69.6	104.5	139.3	33.9	50.8	67.7
72"		39.7	59.5	79.3	56.7	85.0	113.3	49.2	73.8	98.3	33.5	50.2	66.9	26.0	39.0	52.0	48.3	72.5	96.7	63.8	95.8	127.7	31.1	46.6	62.1
36"	102"	74.7	112.0	149.3	106.7	150.0	150.0	92.5	138.8	150.0	63.0	94.4	125.9	49.0	73.5	97.9	91.0	136.5	150.0	120.2	150.0	150.0	58.4	87.7	116.9
42"		64.0	96.0	128.0	91.4	137.1	150.0	79.3	119.0	150.0	54.0	81.0	107.9	42.0	63.0	84.0	78.0	117.0	150.0	103.0	150.0	150.0	50.1	75.1	100.2
48"		56.0	84.0	112.0	80.0	120.0	150.0	69.4	104.1	138.8	47.2	70.8	94.4	36.7	55.1	73.5	68.2	102.4	136.5	90.1	135.2	150.0	43.8	65.8	87.7
54"		49.8	74.7	99.6	71.1	106.7	142.2	61.7	92.5	123.4	42.0	63.0	84.0	32.6	49.0	65.3	60.7	91.0	121.3	80.1	120.2	150.0	39.0	58.4	77.9
60"		44.8	67.2	89.6	64.0	96.0	128.0	55.5	83.3	111.1	37.8	56.7	75.6	29.4	44.1	58.8	54.6	81.9	109.2	72.1	108.1	144.2	35.1	52.6	70.1
66"		40.7	61.1	81.5	58.2	87.3	116.4	50.5	75.7	101.0	34.3	51.5	68.7	26.7	40.1	53.4	49.6	74.4	99.3	65.5	98.3	131.1	31.9	47.8	63.8
72"		37.3	56.0	74.7	53.3	80.0	106.7	46.3	69.4	92.5	31.5	47.2	63.0	24.5	36.7	49.0	45.5	68.2	91.0	60.1	90.1	120.2	29.2	43.8	58.4
36"	108"	70.5	105.8	141.0	100.7	150.0	150.0	87.4	131.1	150.0	59.5	89.2	118.9	46.3	69.4	92.5	85.9	128.9	150.0	113.5	150.0	150.0	55.2	82.8	110.4
42"		60.4	90.7	120.9	86.3	129.5	150.0	74.9	112.4	149.8	51.0	76.5	101.9	39.6	59.5	79.3	73.7	110.5	147.3	97.3	145.9	150.0	47.3	71.0	94.6
48"		52.9	79.3	105.8	75.6	113.3	150.0	65.6	98.3	131.1	44.6	66.9	89.2	34.7	52.0	69.4	64.4	96.7	128.9	85.1	127.7	150.0	41.4	62.1	82.8
54"		47.0	70.5	94.0	67.2	100.7	134.3	58.3	87.4	116.5	39.6	59.5	79.3	30.8	46.3	61.7	57.3	85.9	114.6	75.7	113.5	150.0	36.8	55.2	73.6
60"		42.3	63.5	84.6	60.4	90.7	120.9	52.4	78.7	104.9	35.7	53.5	71.4	27.8	41.6	55.5	51.6	77.3	103.1	68.1	102.1	136.2	33.1	49.7	66.2
66"		38.5	57.7	76.9	54.9	82.4	109.9	47.7	71.5	95.4	32.4	48.7	64.9	25.2	37.8	50.5	46.9	70.3	93.7	61.9	92.8	123.8	30.1	45.2	60.2
72"		35.3	52.9	70.5	50.4	75.6	100.7	43.7	65.6	87.4	29.7	44.6	59.5	23.1	34.7	46.3	43.0	64.4	85.9	56.7	85.1	113.5	27.6	41.4	55.2
36"	114"	66.8	100.2	133.6	95.4	143.2	150.0	82.8	124.2	150.0	56.3	84.5	112.7	43.8	65.7	87.6	81.4	122.1	150.0	107.5	150.0	150.0	52.3	78.4	104.6
42"		57.3	85.9	114.5	81.8	122.7	150.0	71.0	106.5	142.0	48.3	72.4	96.6	37.6	56.3	75.1	69.8	104.7	139.5	92.2	138.2	150.0	44.8	67.2	89.6
48"		50.1	75.2	100.2	71.6	107.4	143.2	62.1	93.2	124.2	42.3	63.4	84.5	32.9	49.3	65.7	61.1	91.6	122.1	80.6	120.9	150.0	39.2	58.8	78.4
54"		44.5	66.8	89.1	63.6	95.4	127.3	55.2	82.8	110.4	37.6	56.3	75.1	29.2	43.8	58.4	54.3	81.4	108.5</						

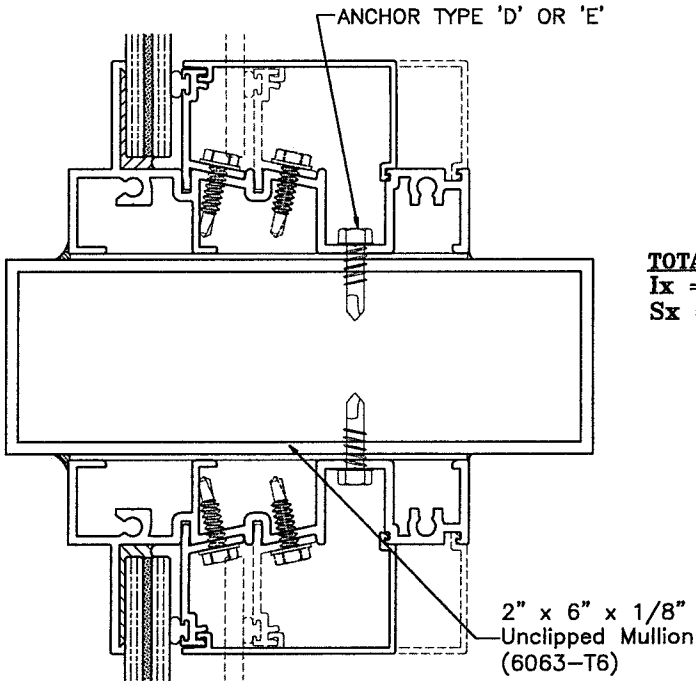
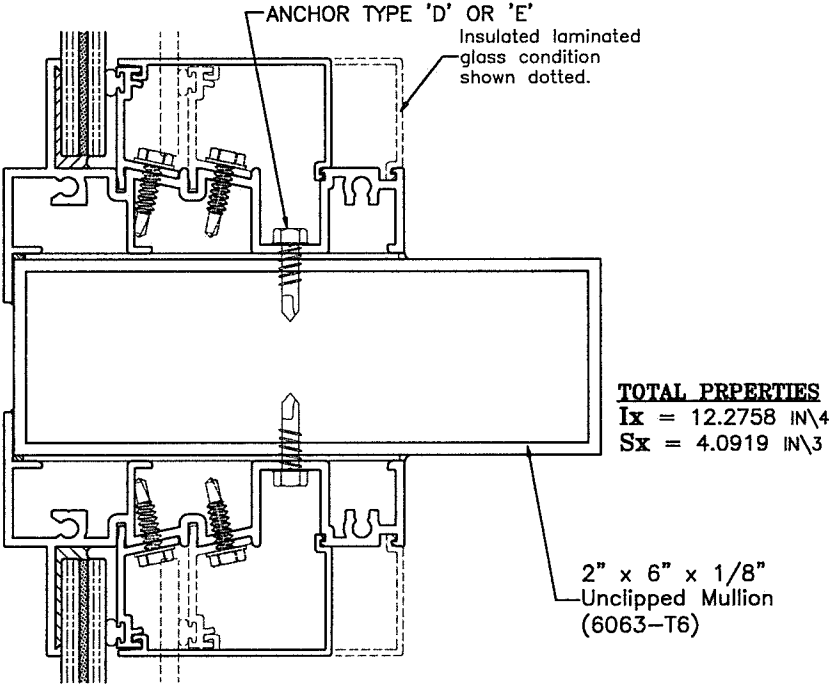
DESIGN LOAD CAPACITY - PSF (MULLION) 1" X 4" X 1/8" ALUM TUBE			
WINDOW DIMS.		LAMINATED GLASS	INSUL. LAM. GLASS
WIDTH	LENGTH	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
72"	72"	100.0	80.0
36"	84"	100.0	100.0
48"		90.0	57.0
68"		59.0	37.0

ANY SIZE OR DESIGN LOAD LESS THAN CHART IS ALLOWED.

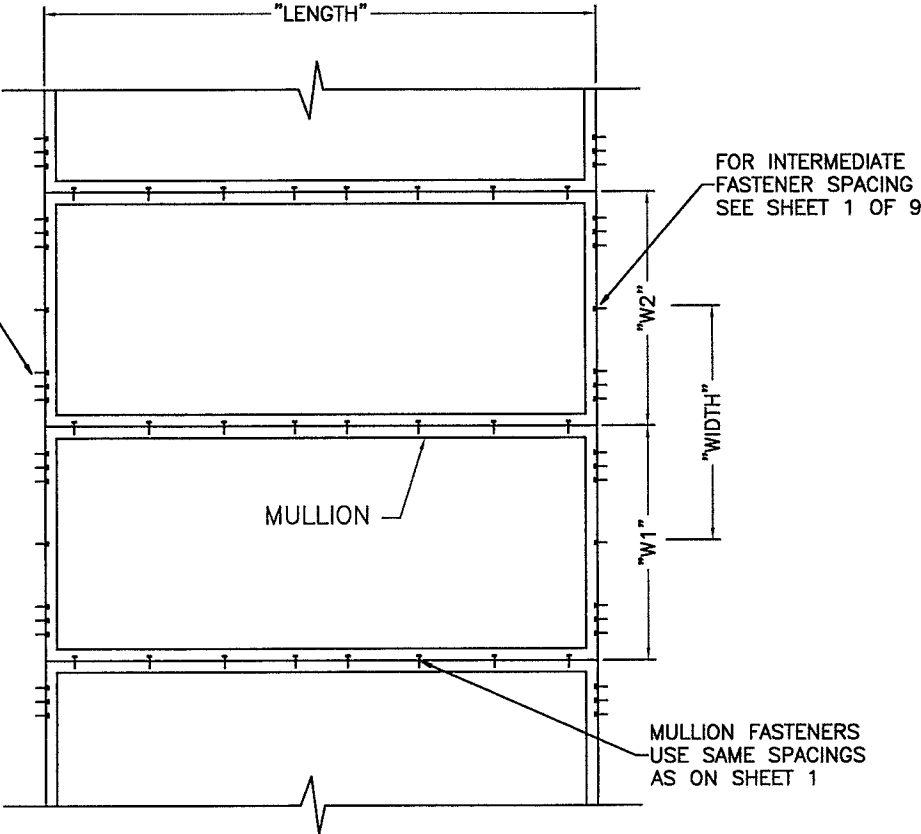


DESIGN LOAD CAPACITY - PSF (MULLION) 2" X 6" X 1/8" ALUM TUBE			
WINDOW DIMS.		LAMINATED GLASS	INSUL. LAM. GLASS
WIDTH	LENGTH	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
84"	72"	100.0	100.0
60"	96"	100.0	100.0
84"		75.0	75.0
60"		75.0	72.0
72"	108"	68.0	58.0
48"		75.0	68.0
60"		60.0	51.0
72"	120"	49.0	36.0

ANY SIZE OR DESIGN LOAD LESS THAN CHART IS ALLOWED.



ANCHORS AT EACH SIDE OF MULLION
(2) FOR 1X4 TUBE
(3) FOR 2X6 TUBE

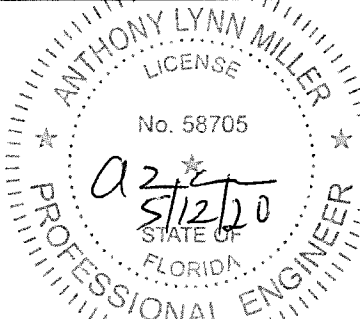


TYPICAL ELEVATION

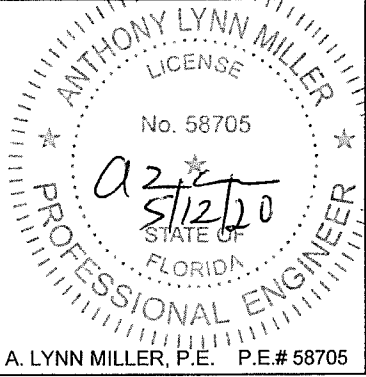
$$\text{Width} = \frac{W1 + W2}{2}$$
$$W2 \leq W1$$

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16
Expiration Date 06/03/2024
By *CS*
Miami-Dade Product Control

Title: SERIES 410 FIXED WINDOW - LM			Drawn By: AGK		WinDoor® INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400
Description: MULLION LOAD CAPACITY 4			Date: 06/05/19		
Revision: NO CHANGES THIS SHEET.			Rev. By: JR	Rev. Date: 05/07/20	PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296
Series/Model: PW-410 LM	Scale: NTS	Sheet: 9 OF 11	Drawing No. PW410LMI-NOA		Rev: A
					A. LYNN MILLER, P.E. P.E.# 58705



ANTHONY LYNN MILLER
LICENSE
No. 58705
A2 5/12/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E. P.E.# 58705

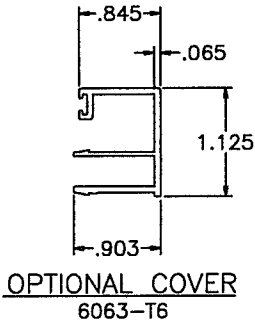
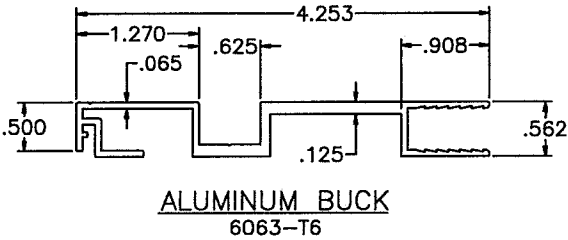


DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS		ANCHOR TYPES A, B, B+, AA, BB & BB+		ANCHOR TYPES BBB & BBB+
DIM. 1	DIM. 2	AT 16" O.C.	AT 8" O.C.	AT 16" O.C.
30"	48"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		150.0	150.0	150.0
48"		150.0	150.0	150.0
51"		150.0	150.0	150.0
57"		150.0	150.0	150.0
60"		150.0	150.0	150.0
63"		150.0	150.0	150.0
66"		150.0	150.0	150.0
69"		150.0	150.0	150.0
72"		148.8	150.0	150.0
30"	54"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		150.0	150.0	150.0
48"		150.0	150.0	150.0
51"		150.0	150.0	150.0
57"		150.0	150.0	150.0
60"		150.0	150.0	150.0
63"		150.0	150.0	150.0
66"		150.0	150.0	150.0
69"		150.0	150.0	150.0
72"		141.0	150.0	150.0
30"	60"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		150.0	150.0	150.0
48"		150.0	150.0	150.0
51"		150.0	150.0	150.0
57"		150.0	150.0	150.0
60"		150.0	150.0	150.0
63"		150.0	150.0	150.0
66"		150.0	150.0	150.0
69"		146.5	150.0	150.0
72"		136.0	150.0	150.0
30"	66"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		150.0	150.0	150.0
48"		150.0	150.0	150.0
51"		150.0	150.0	150.0
57"		150.0	150.0	150.0
60"		150.0	150.0	150.0
63"		150.0	150.0	150.0
66"		150.0	150.0	150.0
69"		144.2	150.0	150.0
72"		133.1	150.0	150.0
30"	72"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		150.0	150.0	150.0
48"		148.8	150.0	150.0
51"		144.5	150.0	150.0
57"		138.2	150.0	150.0
60"		136.0	150.0	150.0
63"		134.3	150.0	150.0
66"		133.1	150.0	150.0
69"		132.5	150.0	150.0
72"		132.2	150.0	150.0

INTERPOLATION FROM THESE CHARTS IS ALLOWED.

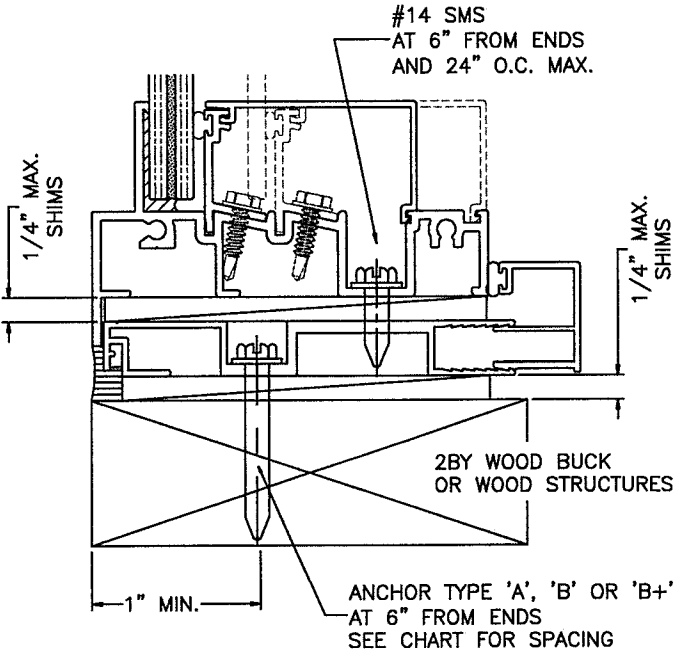
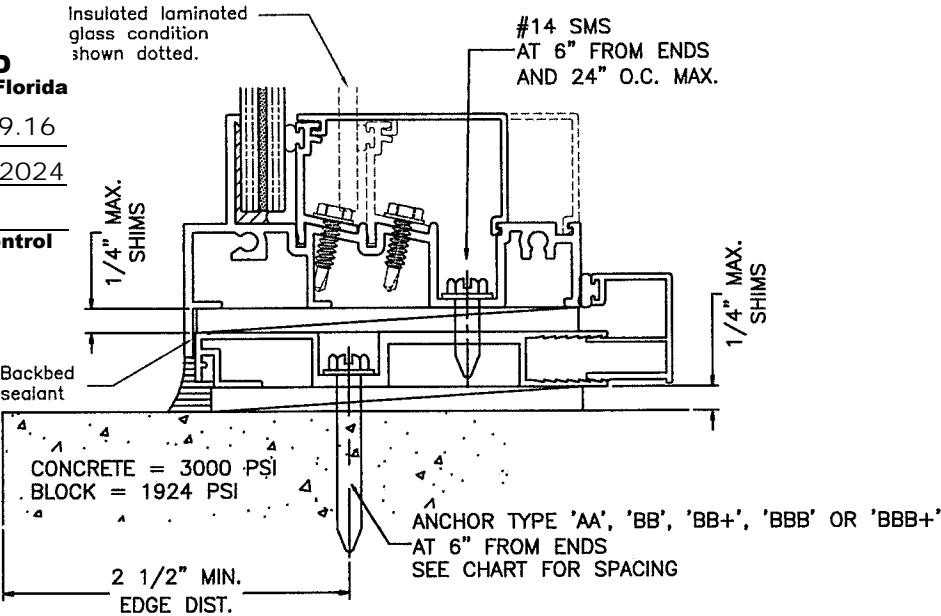
DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS		ANCHOR TYPES A, B, B+, AA, BB & BB+		ANCHOR TYPES BBB & BBB+
DIM. 1	DIM. 2	AT 16" O.C.	AT 8" O.C.	AT 16" O.C.
30"	78"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		150.0	150.0	150.0
48"		150.0	150.0	150.0
51"		150.0	150.0	150.0
57"		145.8	150.0	150.0
60"		142.8	150.0	150.0
63"		140.4	150.0	150.0
66"		138.5	150.0	150.0
69"		137.0	150.0	150.0
72"		136.0	150.0	150.0
30"	84"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		150.0	150.0	150.0
48"		142.8	150.0	150.0
51"		137.8	150.0	150.0
57"		130.0	150.0	150.0
60"		126.9	150.0	150.0
63"		124.3	150.0	150.0
66"		122.2	150.0	150.0
69"		120.4	150.0	149.2
72"		119.0	150.0	147.5
30"	90"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		141.9	150.0	150.0
48"		129.8	150.0	150.0
51"		125.0	150.0	150.0
57"		117.3	150.0	145.4
60"		114.2	150.0	141.6
63"		111.6	150.0	138.3
66"		109.3	150.0	135.5
69"		107.4	150.0	133.1
72"		105.8	150.0	131.1
30"	96"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		150.0	150.0	150.0
48"		138.8	150.0	150.0
51"		133.4	150.0	150.0
57"		124.7	150.0	150.0
60"		121.2	150.0	150.0
63"		118.1	150.0	146.4
66"		115.4	150.0	143.0
69"		113.1	150.0	140.1
72"		111.1	150.0	137.7
30"	102"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		141.0	150.0	150.0
48"		128.2	150.0	150.0
51"		123.0	150.0	150.0
57"		114.5	150.0	142.0
60"		111.1	150.0	137.7
63"		108.0	150.0	133.9
66"		105.4	150.0	130.6
69"		103.0	150.0	127.7
72"		101.0	150.0	125.2

DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS		ANCHOR TYPES A, B, B+, AA, BB & BB+		ANCHOR TYPES BBB & BBB+
DIM. 1	DIM. 2	AT 16" O.C.	AT 8" O.C.	AT 16" O.C.
30"	108"	150.0	150.0	150.0
36"		148.1	150.0	150.0
42"		131.3	150.0	150.0
48"		119.0	150.0	147.5
51"		114.0	150.0	141.3
57"		105.9	150.0	131.2
60"		102.5	150.0	127.1
63"		99.6	150.0	123.4
66"		96.9	150.0	120.1
69"		94.6	150.0	117.3
72"		92.6	150.0	114.7
30"	114"	150.0	150.0	150.0
36"		150.0	150.0	150.0
42"		140.4	150.0	150.0
48"		126.9	150.0	150.0
51"		121.5	150.0	150.0
57"		112.5	150.0	139.5
60"		108.8	150.0	134.9
63"		105.5	150.0	130.8
66"		102.6	150.0	127.1
69"		100.0	150.0	123.9
72"		97.6	150.0	121.0
30"	120"	150.0	150.0	150.0
36"		149.3	150.0	150.0
42"		131.9	150.0	150.0
48"		119.0	150.0	147.5
51"		113.8	150.0	141.0
57"		105.1	150.0	130.3
60"		101.5	150.0	125.9
63"		98.4	150.0	121.9
66"		95.5	150.0	118.4
69"		92.9	150.0	115.2
72"		90.7	150.0	112.4



ALUMINUM BUCK FRAMING DETAILS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16
Expiration Date 06/03/2024
By
Miami-Dade Product Control



TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES

Title: SERIES 410 FIXED WINDOW - LM		Drawn By: AGK		 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400 PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		
Description: ANCHOR LOAD CAPACITY		Date: 06/05/19				
Revision: ADDED ANCHOR TYPES.		Rev. By: JR	Rev. Date: 05/07/20			
Series/Model: PW-410 LM	Scale: NTS	Sheet: 10 OF 11	Drawing No. PW410LMI-NOA			Rev: A
A. LYNN MILLER, P.E. P.E.# 58705						

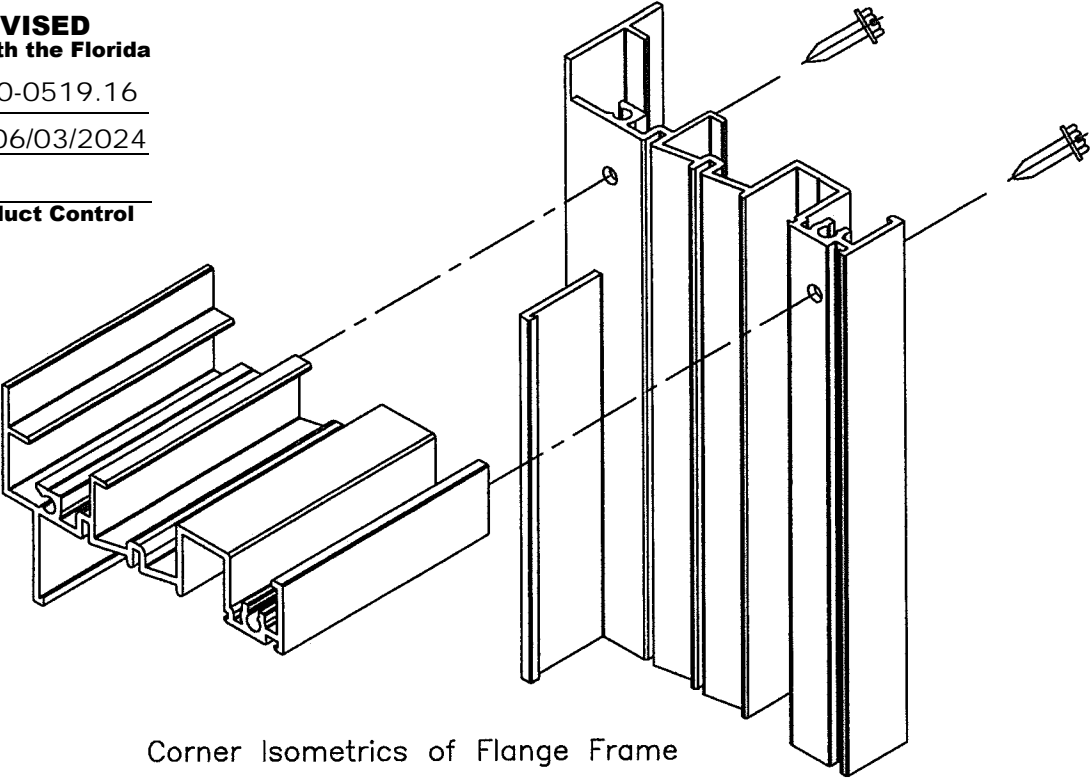
Bill of Materials

Item	Part No. or Name	Qty.	Description	Material	Manufacturer / Supplier	Remarks
①	AL700	Varies	Main Frame (Flange)	Aluminum 6063-T6	Custom Extrusion	Continuous on 4 sides
②	AL703	Varies	Main Frame (Equal Leg)	Aluminum 6063-T6	Custom Extrusion	Continuous on 4 sides
③	AL701	Varies	Glass Stop	Aluminum 6063-T6	Custom Extrusion	Continuous on 4 sides
④	AL702	Varies	Standard Cover	Aluminum 6063-T5	Custom Extrusion	Continuous on 4 sides
⑤	Glass Stop Screw	Varies	#10 x 3/4" Hex Hd Self Drilling	Steel	Varies	at 6" from ends and 12" on center
⑥	Varies	Varies	GE-1200 or 2000 DOW-791, 983 or 995	Silicone	General Electric or Dow Corning	Structural Silicone
⑦	382V	Varies	Glass Stop Bulb	Vinyl	Custom Extruded	
⑧	Frame Screw	8	#12 x 1 1/4" Hex Hd SMS	S/S	Varies	2 per corner
⑨	-	2	Setting Block	Epdm	Varies	Durometer 85±5 Shore A

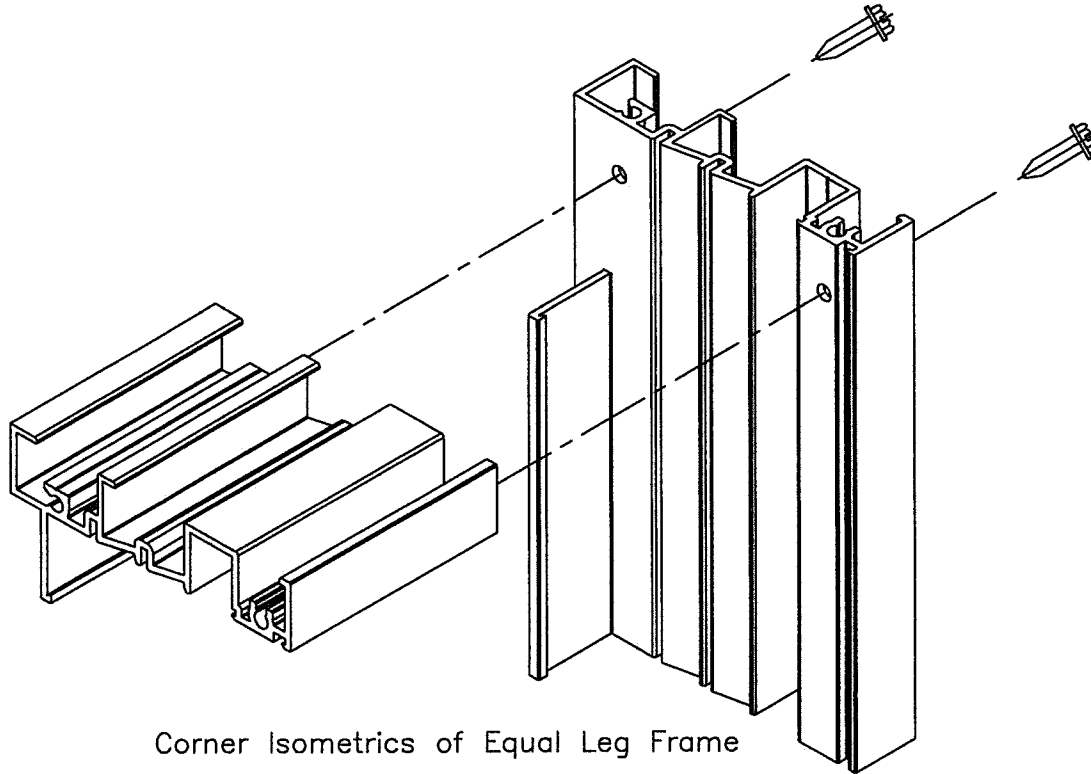
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0519.16

Expiration Date 06/03/2024

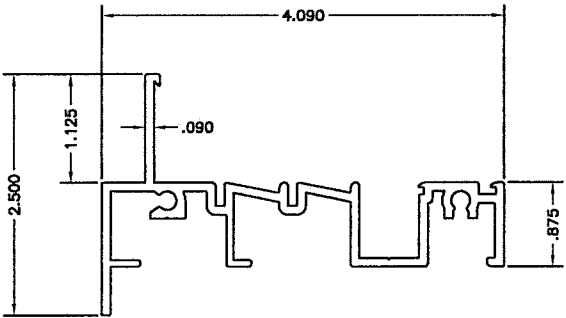
By CS
Miami-Dade Product Control



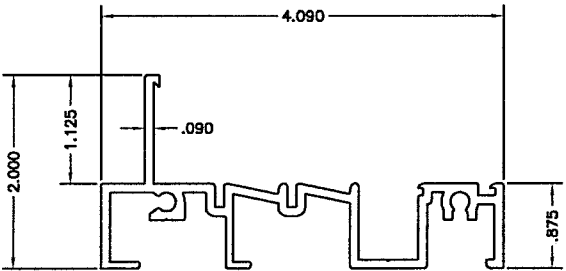
Corner Isometrics of Flange Frame



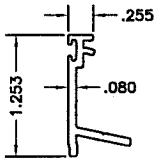
Corner Isometrics of Equal Leg Frame



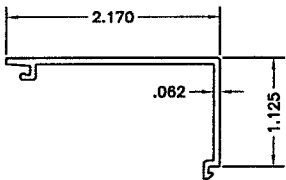
① Flange Frame



② Equal Leg Frame



③ Glass Stop



④ Standard Cover

Title: SERIES 410 FIXED WINDOW - LM			Drawn By: AGK		<div>WinDoor®</div> <div>INCORPORATED</div> <div>7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400</div> <div>PREPARED BY LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275</div> <div>(941) 480-1600</div> <div>REGISTRATION #29296</div>
Description: EXTRUSIONS, BOM			Date: 06/05/19		
Revision: ADDED BACKBEDDING.			Rev. By: JR	Rev. Date: 05/07/20	
Series/Model: PW-410 LM	Scale: NTS	Sheet: 11 OF 11	Drawing No. PW410LMI-NOA		

ANTHONY LYNN MILLER
LICENSE
No. 58705
a2
5/12/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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