

Openings: 1,2,3,4,5,6,7,8,9,10,11,14,16A,
16B,16C,16D,31,34A,34B,34D,34E,38,40



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

NOTICE OF ACCEPTANCE (NOA)

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

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 "Sentinel 130" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. PW130LMI-NOA, titled "'Sentinel' Series 130 Fixed Window - LM", sheets 1 through 7 of 7, dated 05/22/19, with revision B dated 08/31/23, 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# 20-0519.09** and consists of this page 1 and evidence pages E-1, E-2, E-3, and E-4, as well as approval document mentioned above.

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



S.Z.

10/26/2023

NOA No. 23-0911.02

Expiration Date: September 22, 2025

Approval Date: October 26, 2023

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections. *(Submitted under NOA No. 10-0510.13)*
2. Drawing No. **PW130LMI-NOA**, titled "Sentinel 130 Alum Fixed Window (L.M.I.)(S.M.I.)", sheets 1 through 7 of 7, dated 05/22/19, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. *(Submitted under NOA No.19-0603.02)*

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) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Sentinel 130 aluminum fixed window, prepared by Hurricane Test Laboratory, Test Report No. **HTL 0080-0130-10**, dated 03/30/10, signed and sealed by Vinu J. Abraham, P.E. *(Submitted under NOA No.10-0510.13)*
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, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, signed and sealed by Ramesh C. Patel, P.E. Test Report No. **CTLA-3056 WA** - Series 7500 PVC fixed window, dated 03/03/15, Test Report No. **CTLA-3056 WB** - Series 7400 PVC project out window, dated 03/03/15, Test Report No. **CTLA-3056 WC** - Series 238 aluminum fixed window, dated 04/16/15, *(Submitted under NOA No.15-0413.03)*
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Water Resistance Test, per FBC, TAS 202-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 130 and 410 aluminum fixed windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-19-8917**, dated 04/09/19, signed and sealed by Idalmis Ortega, P.E. *(Submitted under NOA No.19-0603.02)*



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0911.02
Expiration Date: September 22, 2025
Approval Date: October 26, 2023

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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) 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.
(Submitted under NOA No.20-0519.09)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 07/15/17, 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.
(Submitted under NOA No.20-0519.09)
2. Glazing complies with **ASTM E1300-09**.

D. QUALITY ASSURANCE

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



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0911.02
Expiration Date: September 22, 2025
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CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. NOA No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**”, expiring on 05/23/24.
2. NOA No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.
3. NOA No. **18-0301.06** issued to **Eastman Chemical Company (MA)** for their “**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core**” dated 05/17/18, expiring on 12/11/23.
4. NOA No. **17-0712.05** issued to **Eastman Chemical Company (MA)** for their “**Saflex Clear and Color Glass Interlayers**” dated 09/07/17, expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance, of complying with **FBC 6th Edition (2017)**, and **FBC 7th Edition (2020)**, dated May 07, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (*Submitted under NOA No.20-0519.09*)
2. Statement letter of no financial interest, dated May 07, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (*Submitted under NOA No.20-0519.09*)
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 22, 2019, signed and sealed by A. Lynn Miller, P.E. (*Submitted under NOA No.19-0603.02*)

G. OTHERS

1. Notice of Acceptance No. **19-0603.02**, issued to CGI Windows and Doors, Inc. for their Series “Sentinel 130” Aluminum Fixed Window - L.M.I. approved on 07/03/19 and expiring on 09/22/20.

1. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **PW130LMI-NOA**, titled ““Sentinel’ Series 130 Fixed Window - LM”, sheets 1 through 7 of 7, dated 05/22/19, with revision **B** dated 08/31/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) 400 ft-lb Drop Test, per ANSI Z97.1-15 Class A and FBC Sections 2406.2 and 2406.4.3, along with marked-up drawings and installation diagram of CGI Windows & Doors, Inc. and PGT Industries, Inc. representative units listed below and tested to qualify ANSI Z97.1 Safety Glazing on corresponding lites of CGI and PGT lines of fixed window products, prepared by QAI Laboratories, Test Reports No.:



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0911.02
Expiration Date: September 22, 2025
Approval Date: October 26, 2023

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

NOK-0049, test specimen: CGI Windows & Doors, Inc. Series “PW238” Aluminum Fixed Window – L.M.I. (unit 1 in proposal No. **23-0441R** dated 06/12/23)

NOK-0050, test specimen: PGT Industries, Inc. Series “PW5520 Vinyl Fixed Window – L.M.I. (unit 2 in proposal No. **23-0441R** dated 06/12/23), each dated 08/02/23, and signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **23-0717.26** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. NOA No. **23-0717.28** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.
3. NOA No. **23-0713.21** 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 12/11/28.
4. NOA No. **23-0713.18** issued to **Eastman Chemical Company (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.

F. STATEMENTS

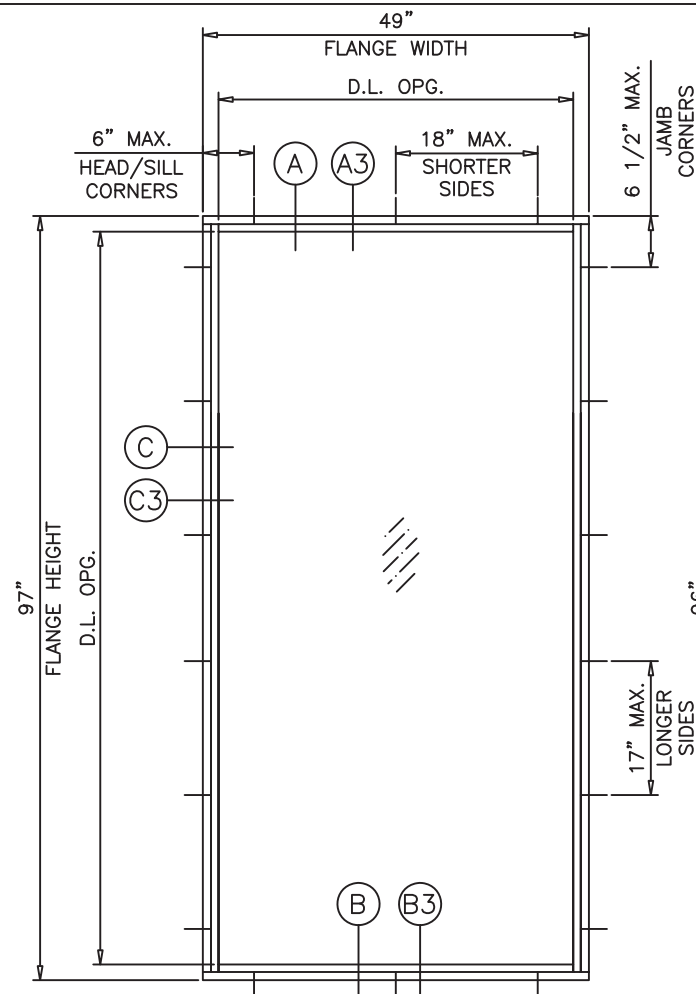
1. Statement letter of conformance, complying with **FBC 7th Edition (2020)** and the **FBC 8th Edition (2023)**, dated September 07, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated September 07, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. **23-0441R** issued by the Product Control Section, dated 06/06/23 and revised on 06/12/23, signed by Manuel Perez, P.E.

G. OTHERS

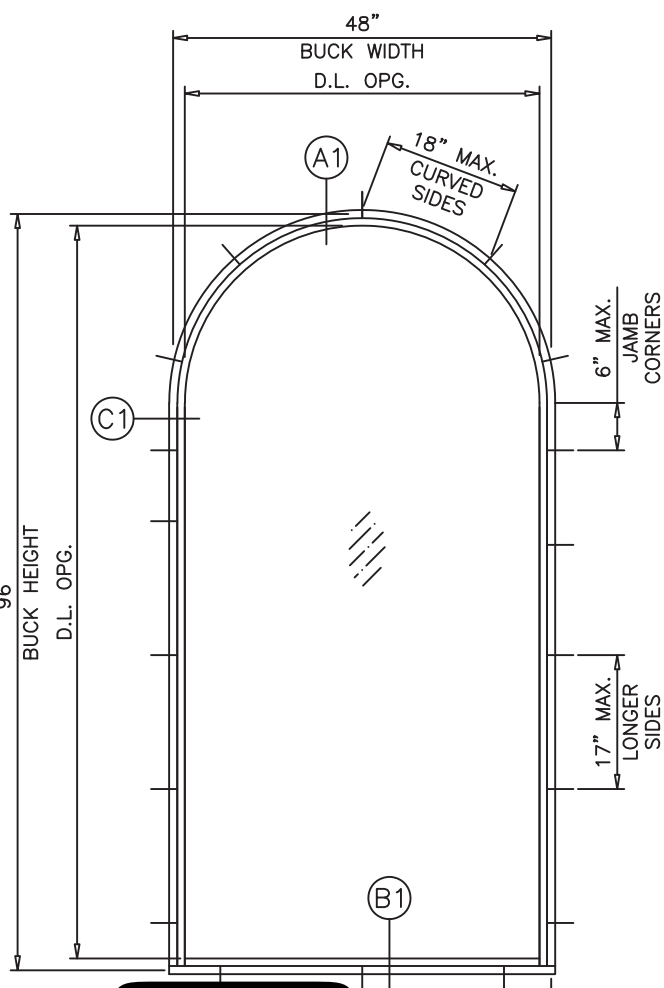
1. Notice of Acceptance No. **20-0519.09**, issued to CGI Windows and Doors, Inc. for their Series “Sentinel 130” Aluminum Fixed Window - L.M.I. approved on 10/10/2020 and expiring on 09/22/25.



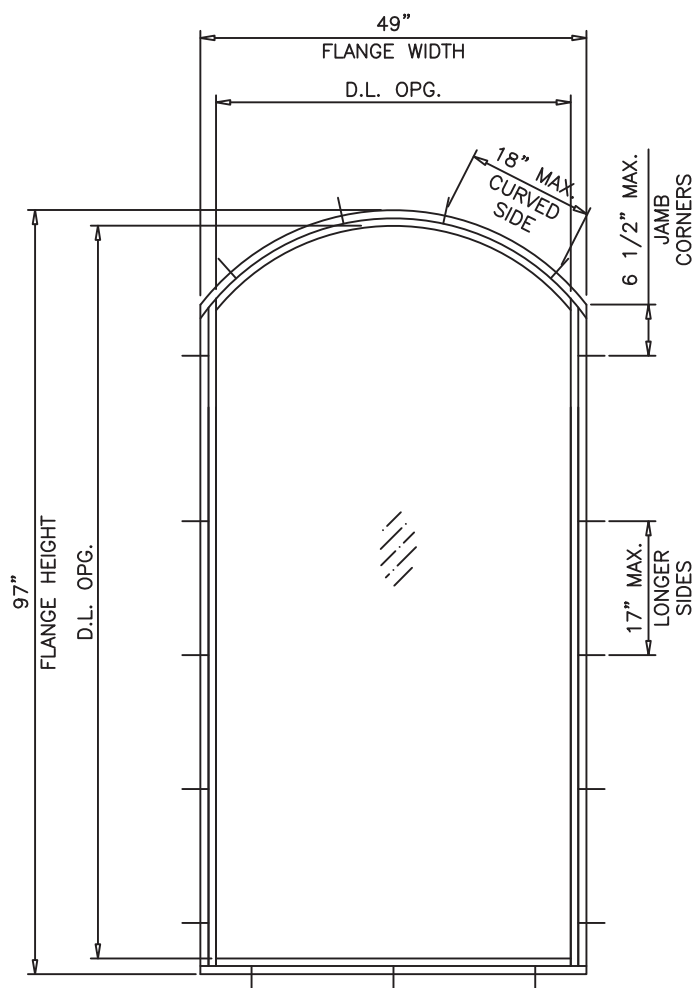
Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0911.02
Expiration Date: September 22, 2025
Approval Date: October 26, 2023



TYP. FLANGE & FLANGE ADAPTOR FRAME



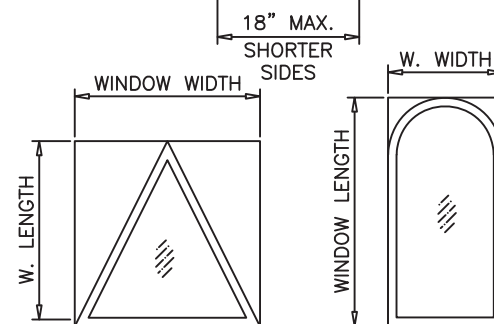
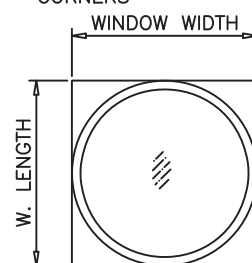
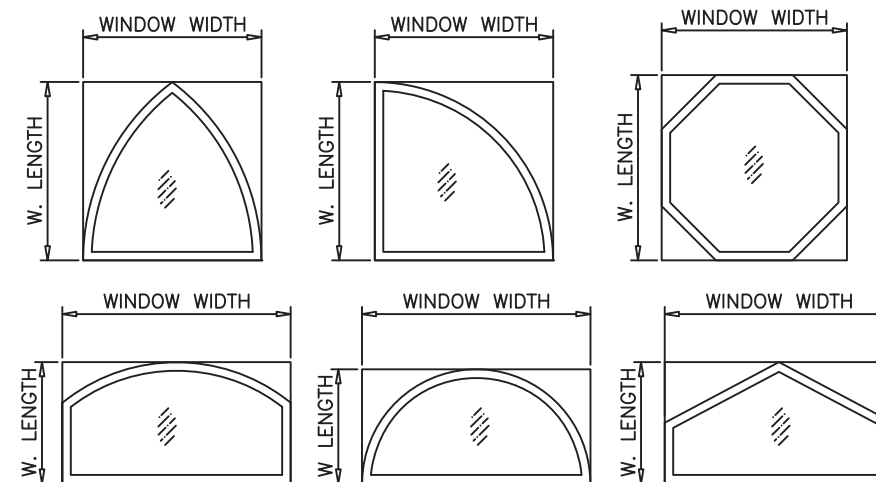
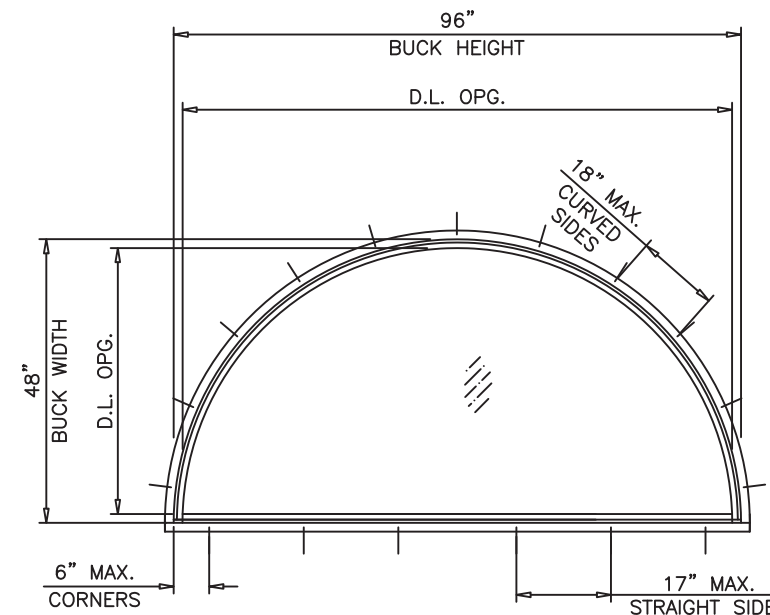
TYP. EQUAL LEG FRAME



TYPICAL ELEVATIONS

ANCHOR SPACING SHOWN HEREIN APPLICABLE TO FLANGE AND FLUSH FRAMES. SEE SHEET 2 FOR FIN FRAMES.

LAM. GLASS
INSULATING LAM.GLASS
SMALL MISSILE IMPACT
LARGE MISSILE IMPACT



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

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

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 2020 (7TH EDITION) & 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE. ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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

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

THIS SYSTEM HAS BEEN TESTED TO MEET THE 400 FT-LB KINETIC ENERGY IMPACT LOADING REQUIREMENTS OF ANSI Z97.1 WHEN USING GLASS TYPES D & D1.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0911.02**
Expiration Date **09/22/2025**
By *[Signature]*
Miami-Dade Product Control



**Impact Resistant
Windows & Doors**

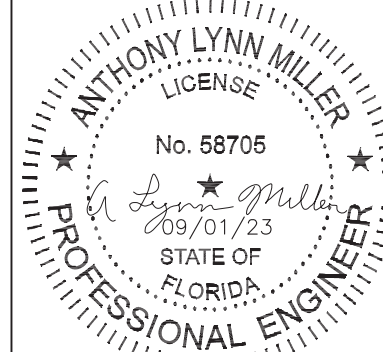
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

(941) 480-1600

REGISTRATION #29296

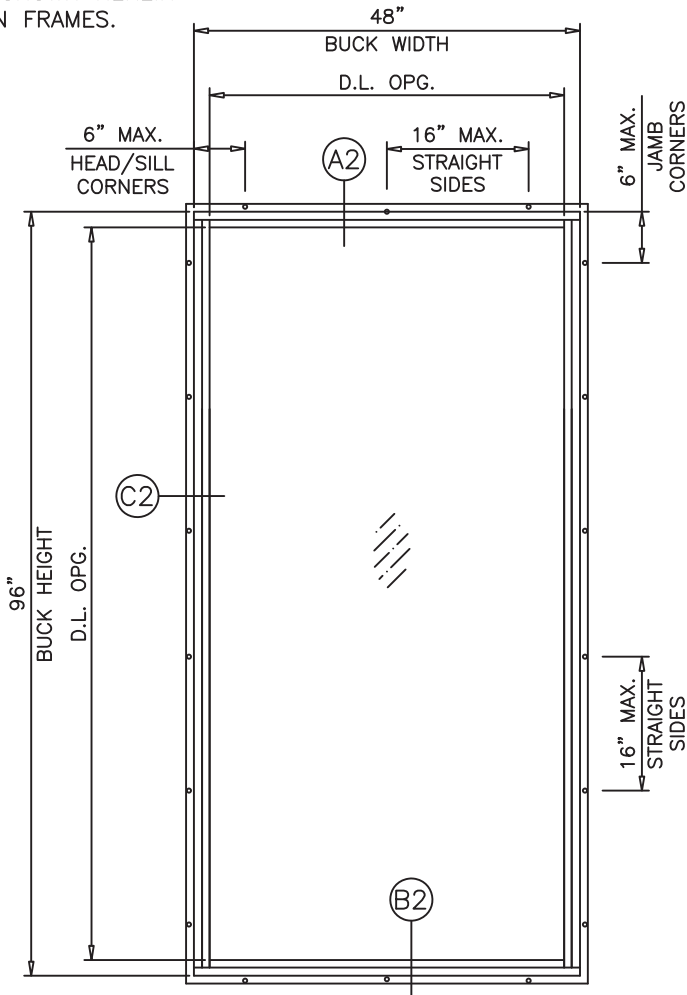
Series	PW-130 LM	Sheet	1 OF 7	DWG No.	PW130LMI-NOA	Rev.	B
Rev	Desc.	Title	Rev	Date	Rev	Date	
		"SENTINEL" SERIES 130 FIXED WINDOW - LM		05/22/19			
		TYPICAL ELEVATIONS	Drawn By	AGK			
		UPDATED TO FBC 2023, ANSI Z97.1	Rev	08/31/23			



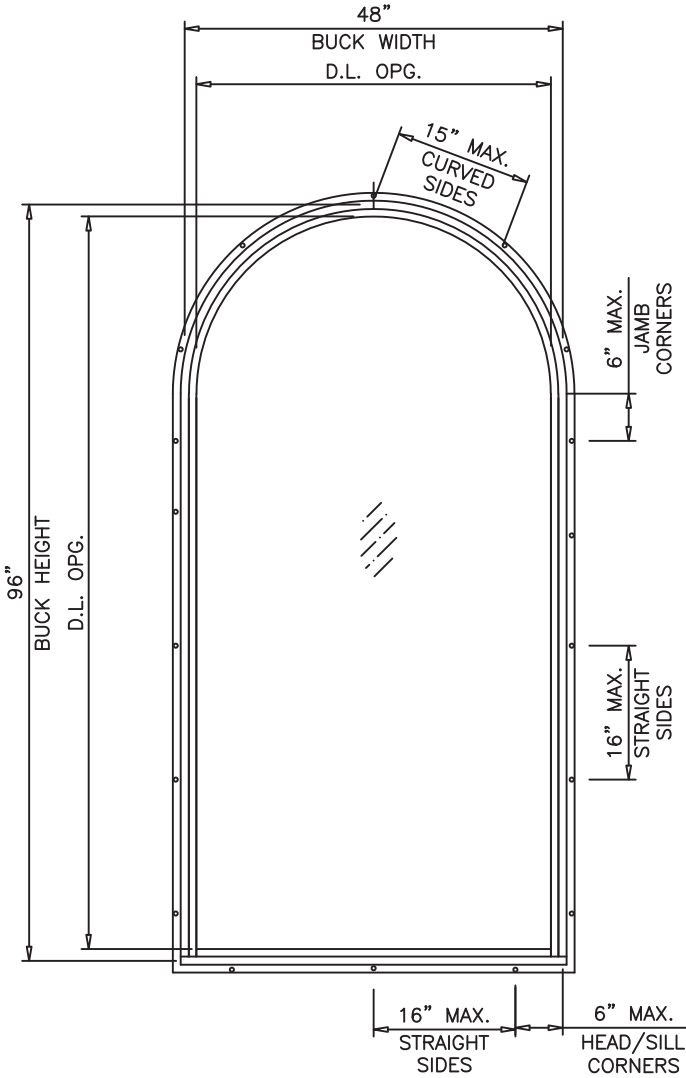
A. LYNN MILLER, P.E.
P.E.# 58705

TYPICAL ELEVATIONS

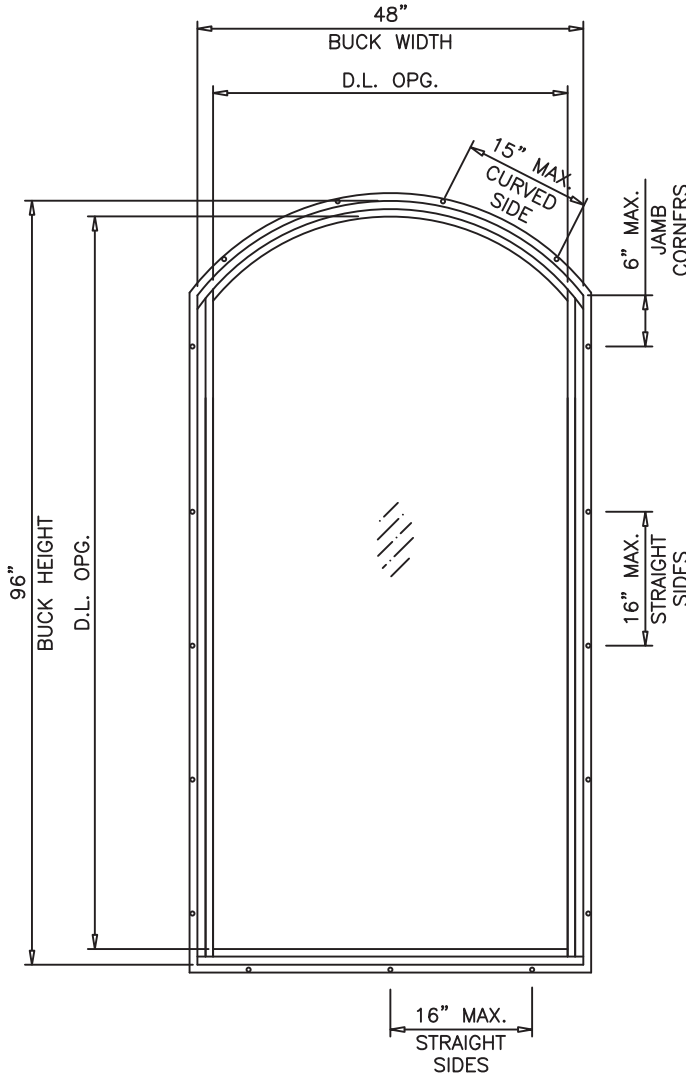
ANCHOR SPACING SHOWN HEREIN
APPLICABLE TO FIN FRAMES.



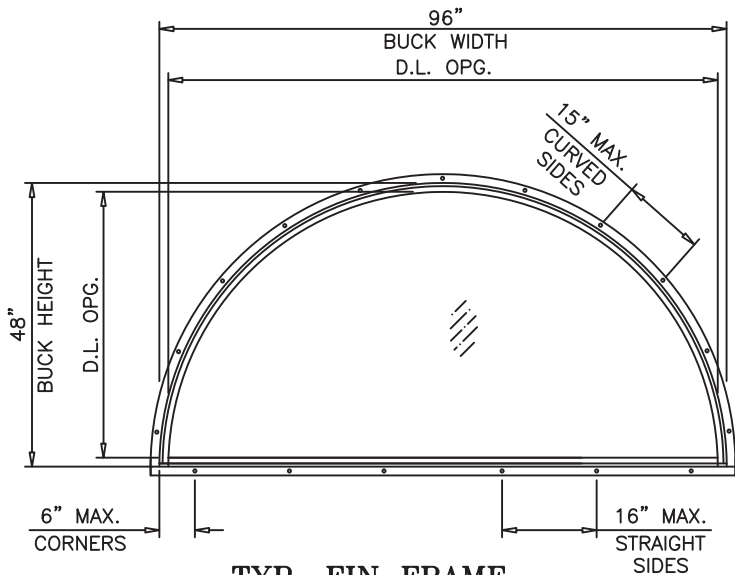
TYP. FIN FRAME



TYP. FIN FRAME



TYP. FIN FRAME



TYP. FIN FRAME

DAYLITE OPENINGS:

D.L.O. HEIGHT = BUCK HEIGHT - 3.00"
D.L.O. WIDTH = BUCK WIDTH - 3.00"

LAM. GLASS
INSULATING LAM.GLASS
SMALL MISSILE IMPACT
LARGE MISSILE IMPACT

ALTERNATE SHAPES AS SHOWN ON SHEET 1 ALSO AVAILABLE FOR FIN FRAMES

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0911.02**
Expiration Date **09/22/2025**
By *[Signature]*
Miami-Dade Product Control

Impact Resistant Windows & Doors

3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

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

Series	PW-130 LM	Sheet	2 OF 7	DWG No.	PW130LMI-NOA	Rev.	B
Rev	05/22/19	Desc	"SENTINEL" SERIES 130 FIXED WINDOW - LM		Date	05/22/19	
Rev	08/31/23	Desc	TYPICAL ELEVATION CONT.		Date	08/31/23	
Rev	NO CHANGES THIS SHEET - LMY		Drawn By	AGK			

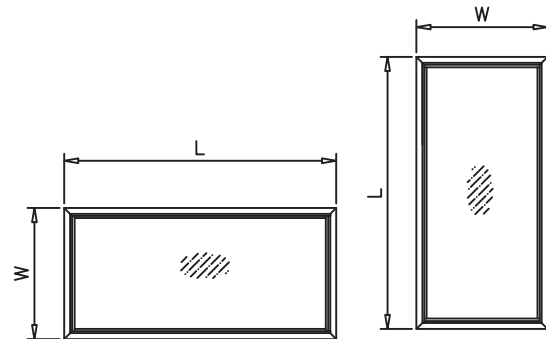
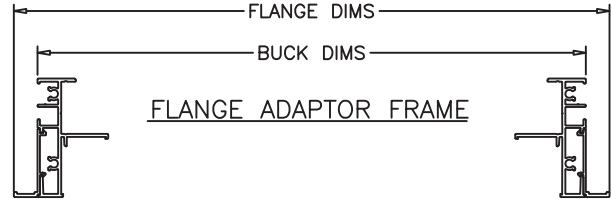
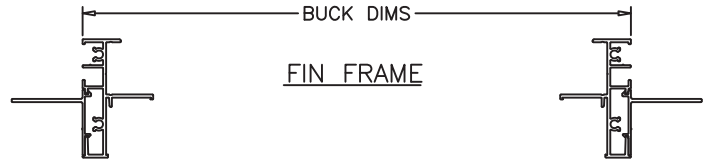
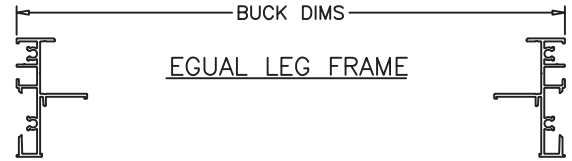
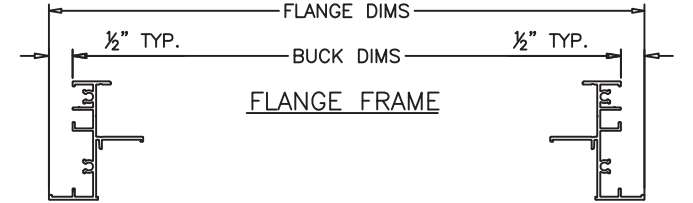
ANTHONY LYNN MILLER
LICENSE
No. 58705
09/01/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 1:

Window Design Pressure, (+/- psf)													Use this table for Glass Types:		C & C1		
Window Dimensions			Length (in)														
Flange Dims. →			36	38 3/8	48	50 5/8	60	63	72	76	84	97	102	108	114	120	121
↓ Buck Dims. ↓→			35	37 3/8	47	49 5/8	59	62	71	75	83	96	101	107	113	119	120
Width (in)	30	29	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	36	35	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-78.9	+/-78.2	+/-75.6	+/-74.6	+/-73.8	+/-73	+/-72.4	+/-72.3
	37	36	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-78.9	+/-78.9	+/-70	+/-65.9	+/-65.9	+/-65.9	+/-65.9	+/-65.9	+/-65.8
	39	38	+/-80	+/-77.1	+/-70.2	+/-70.2	+/-70.2	+/-70.2	+/-70.2	+/-70	+/-70	+/-65.9	+/-65.9	+/-65.9	+/-65.9	+/-65.9	+/-65.8
	41	40	+/-80	+/-77.1	+/-70.2	+/-70.2	+/-70.2	+/-70.2	+/-70.2	+/-70	+/-70	+/-65.7	+/-65.7	+/-62.4	+/-61.4		
	42	41	+/-80	+/-77.1	+/-70.2	+/-70.2	+/-70.2	+/-70.2	+/-70.2	+/-70	+/-70	+/-65.2	+/-65.7	+/-62.4			
	44	43	+/-80	+/-77.1	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-60.6	+/-59.3	+/-59.1			
	46	45	+/-80	+/-77.1	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-60.6	+/-59.3				
	48	47	+/-80	+/-77.1	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-61.3	+/-60.6					
	49	48	+/-80	+/-77.1	+/-61.3	+/-59.6	+/-59.6	+/-59.6	+/-59.6	+/-59.6	+/-59.6	+/-59.6					
	53 1/8	52 1/8	+/-80	+/-77.1	+/-61.3	+/-58	+/-55.3	+/-55.3	+/-55.3	+/-55.3	+/-54.3						
	54	53	+/-80	+/-77.1	+/-61.3	+/-58	+/-54.3	+/-54.3	+/-54.3	+/-54.3	+/-54.3						
	56	55	+/-80	+/-77.1	+/-61.3	+/-58	+/-52.4	+/-52.4	+/-52.4	+/-52.4	+/-52.4						
	60	59	+/-80	+/-77.1	+/-61.3	+/-58	+/-48.8	+/-48	+/-48.8	+/-48							
	61	60	+/-80	+/-77.1	+/-61.3	+/-58	+/-48.8	+/-48	+/-48	+/-48							
75 1/4	74 1/4	+/-58	+/-58	+/-58	+/-58	+/-46.5	+/-46.5										
93 3/4	92 3/4	+/-58	+/-58	+/-58	+/-58												

TABLE 2:

Window Design Pressure, (+/- psf)											Use this table for Glass Types:		D & D1		
Window Dimensions			Length (in)												
			Flange Dims. →		48	50 5/8	60	63	72	76	84	97	102	108	114
↓ Buck Dims. ↓→			47	49 5/8	59	62	71	75	83	96	101	107	113	119	120
Width (in)	39	38	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	41	40	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	42	41	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80		
	44	43	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80			
	46	45	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80				
	48	47	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80					
	49	48	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80					
	53 1/8	52 1/8	+/-80	+/-77.4	+/-73.7	+/-73.7	+/-73.7	+/-73.7	+/-72.5						
	54	53	+/-80	+/-77.4	+/-72.5	+/-72.5	+/-72.5	+/-72.5	+/-72.5						
	56	55	+/-80	+/-77.4	+/-69.8	+/-69.8	+/-69.8	+/-69.8	+/-69.8						
	60	59	+/-80	+/-77.4	+/-65.1	+/-65.1	+/-65.1	+/-64							
	61	60	+/-80	+/-77.4	+/-65.1	+/-64	+/-64	+/-64							
	75 1/4	74 1/4	+/-77.4	+/-77.4	+/-61.9	+/-61.9									
	93 3/4	92 3/4	+/-76.5	+/-76.5											



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

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

ANCHOR SPACING TO BE AS PER SHEETS 1 & 2

Impact Resistant
Windows & Doors

3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0911.02
Expiration Date 09/22/2025
By
Miami-Dade Product Control

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

(941) 480-1600

REGISTRATION #29296

"SENTINEL" SERIES 130 FIXED WINDOW - LM

Date 05/22/19

DESIGN LOAD CHARTS

Drawn By AGK

CONVERTED TO MATRICES - LMY

Rev Date 08/31/23

PW-130 LM

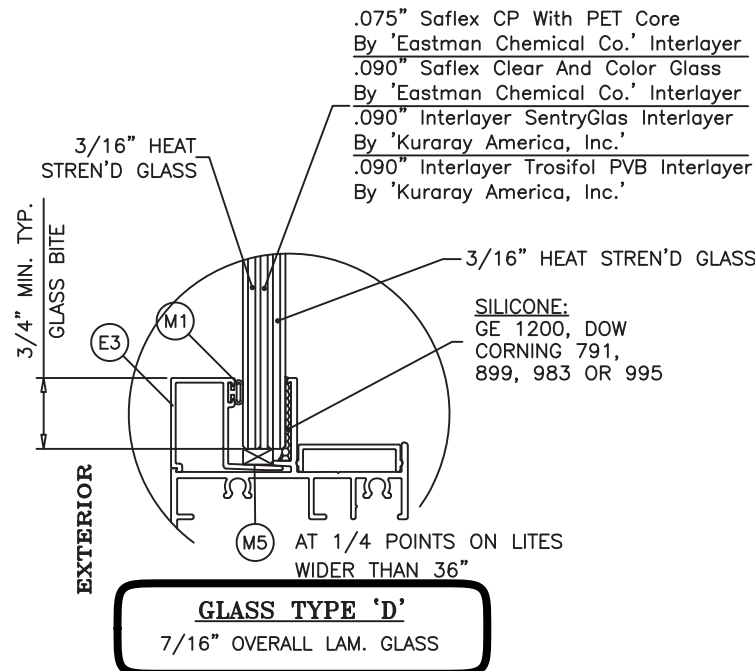
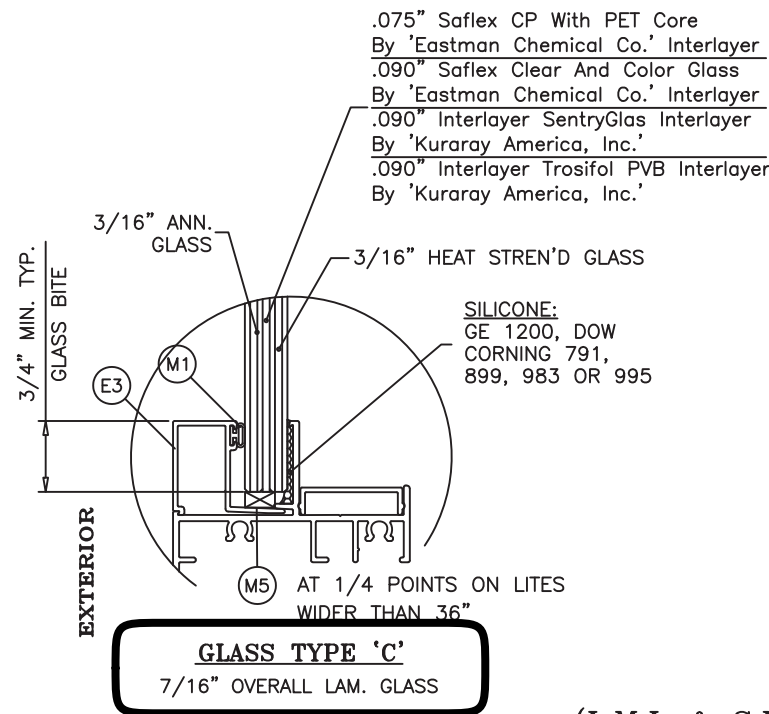
Sheet 3 OF 7

DWG No. PW130LMI-NOA

Rev. B

ANTHONY LYNN MILLER
LICENSE
No. 58705
09/01/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

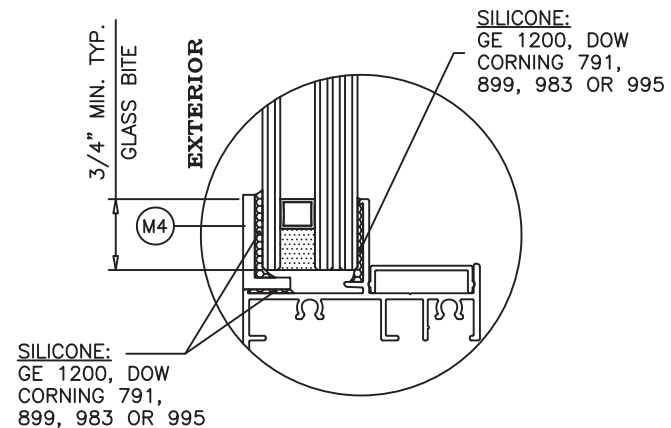
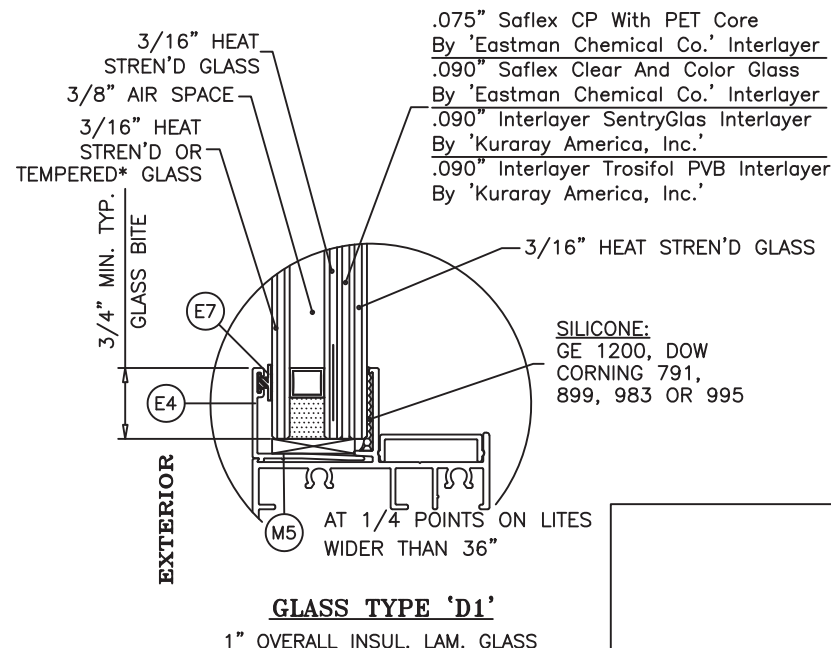
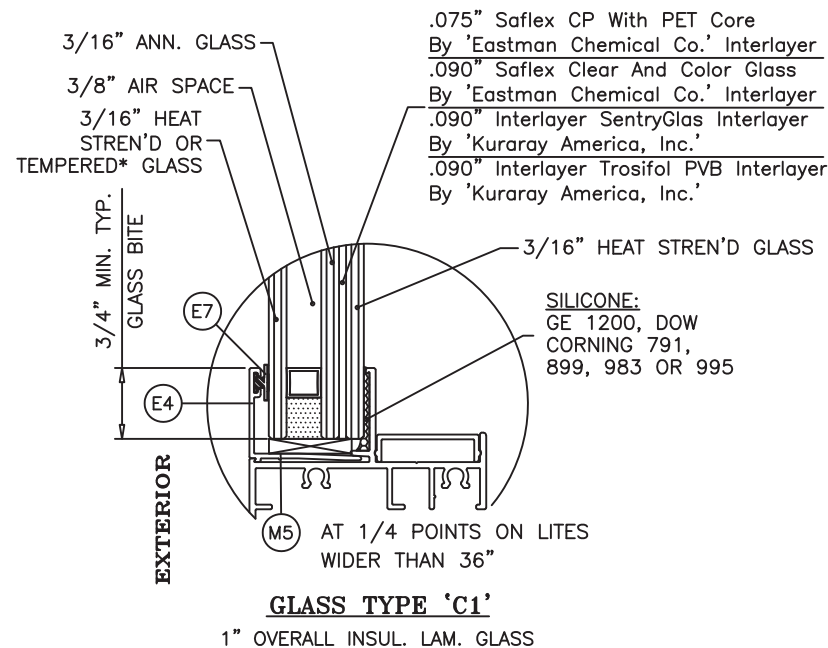
A. LYNN MILLER, P.E.
P.E.# 58705



(L.M.I. & S.M.I.)

(L.M.I. ONLY)

IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPES 'C1' & 'D1' MUST BE TEMPERED.



OPTIONAL GLAZING DETAIL
GLASS TYPES 'C1' & 'D1'

*FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, OR FOR SAFETY
GLAZING APPLICATIONS PER THE FBC, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.

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By 
Miami-Dade Product Control



**Impact Resistant
Windows & Doors**

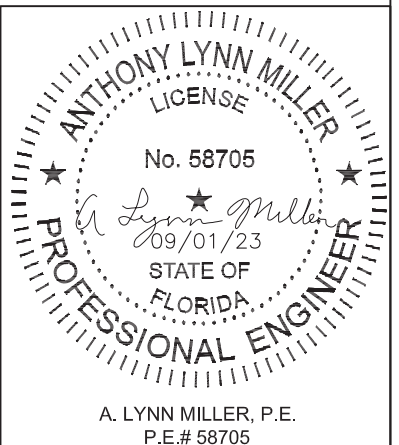
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

(941) 480-1600

REGISTRATION #29296

Series	PW-130 LM	Sheet	4 OF 7	DWG No.	PW130LMI-NOA	Rev.	B
Rev	Desc.	Title		Rev	Date	Date	
		"SENTINEL" SERIES 130 FIXED WINDOW - LM			05/22/19		
		GLAZING DETAILS		Drawn By	AGK		
		NO CHANGES THIS SHEET - LMY		Rev	08/31/23		



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

TYPICAL INSTALLATION DETAILS
THESE DETAILS ARE TYPICAL ON ALL FOUR SIDES OF WINDOW

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
(FLANGE & EQUAL LEG FRAMES)

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

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

THRU 1BY BUCKS INTO CONCRETE OR BLOCKS

1-1/4" MIN. EMBED INTO CONCRETE (HEADS/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEADS/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2 1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

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

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-3/8" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-3/8" MIN. EMBED INTO CONCRETE (HEADS/SILL/JAMBS)
1-1/4" MIN. EMBED INTO HOLLOW BLOCKS (JAMBS)
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-3/8" MIN. EMBED INTO CONCRETE (HEADS/SILL/JAMBS)
1-1/4" MIN. EMBED INTO HOLLOW BLOCKS (JAMBS)
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 1 9/16" MIN.
INTO WOOD STRUCTURE = 1" MIN.

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

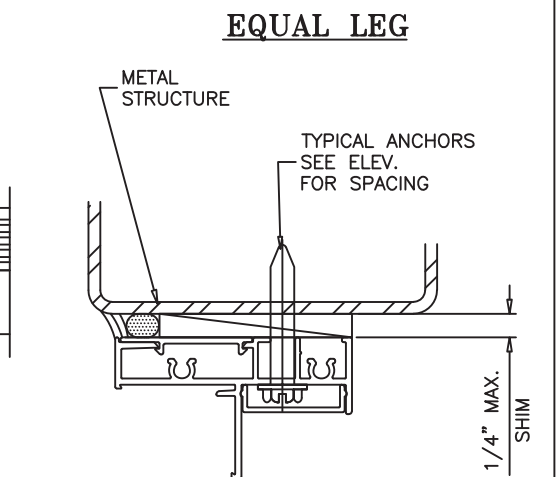
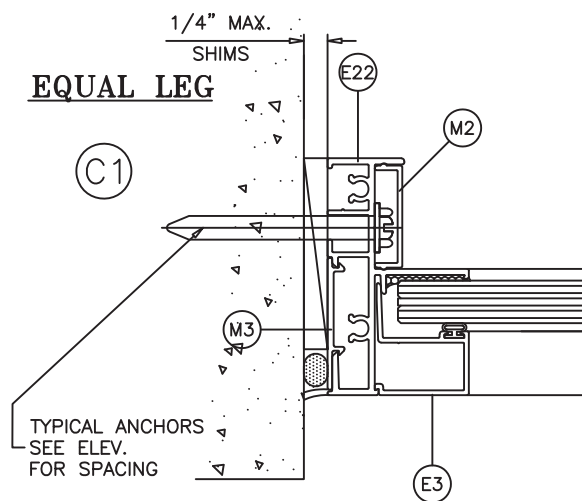
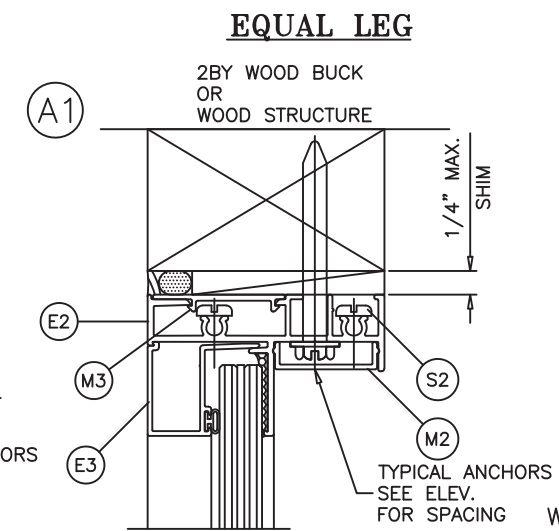
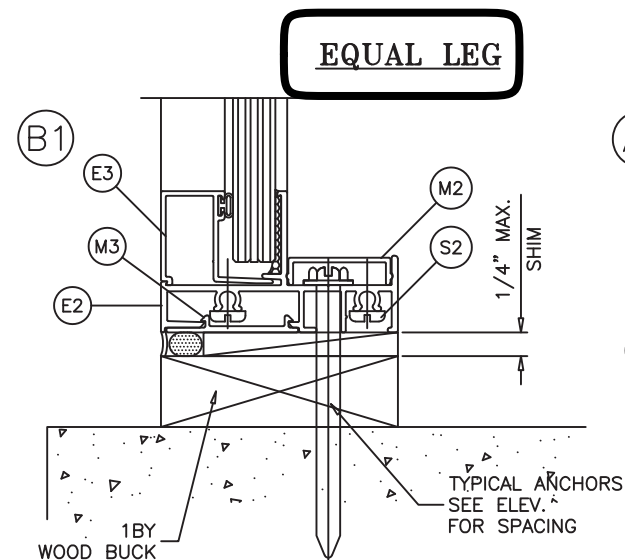
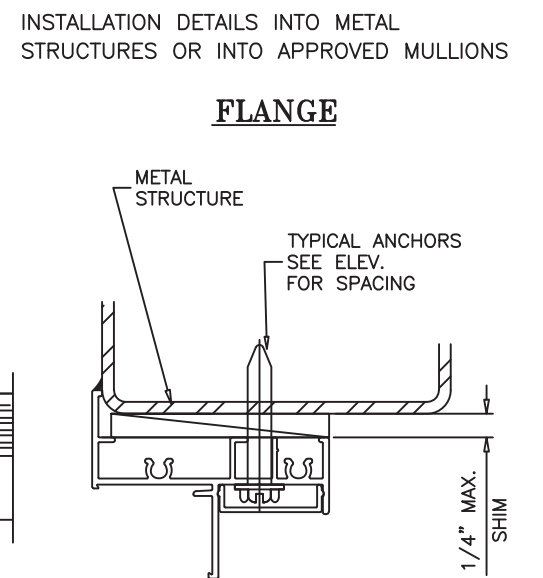
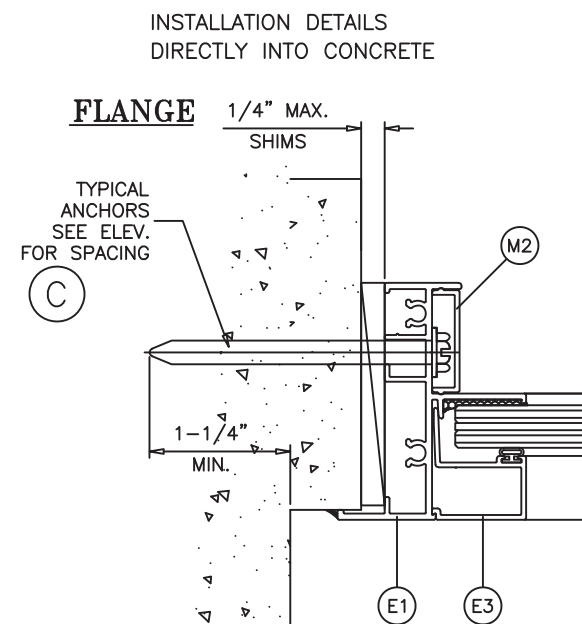
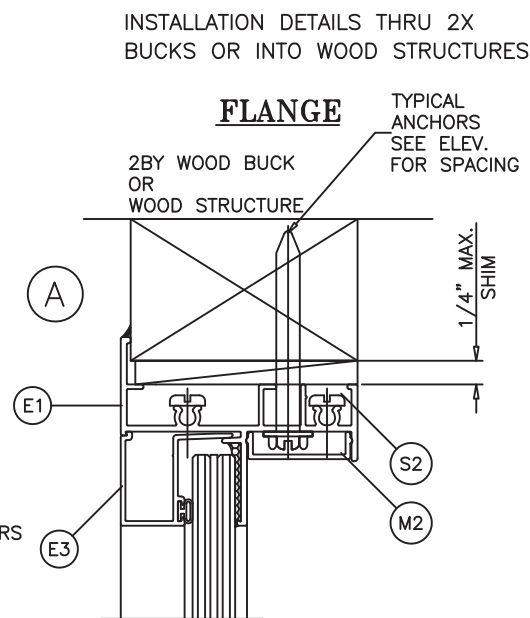
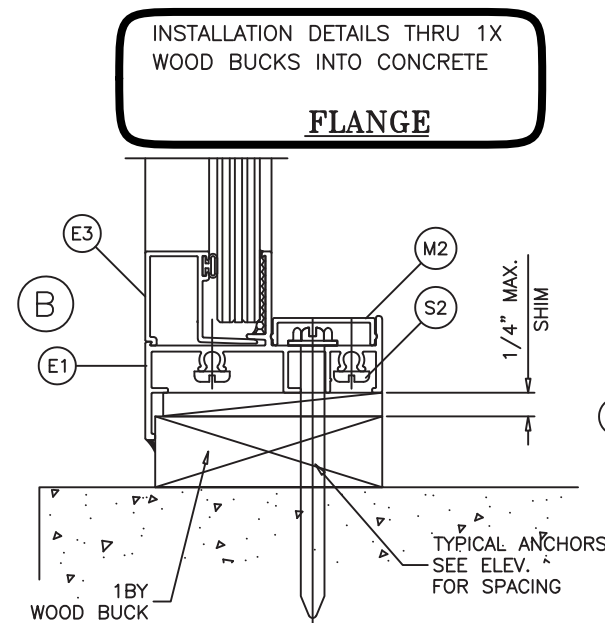
INTO MIAMI-DADE APPROVED MULLIONS OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 35 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED
OR PAINTED)

TYPICAL EDGE DISTANCE

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. INTO WOOD STRUCTURE = 1" MIN.

ALL ANCHOR HEAD TYPES ARE
ACCEPTABLE.



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
FIN FRAME

#8 SMS (GRADE 2 CRS)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/4" MIN. PENETRATION INTO WOOD

TYPICAL EDGE DISTANCE

INTO WOOD STRUCTURE = 1" MIN.

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**Impact Resistant
Windows & Doors**

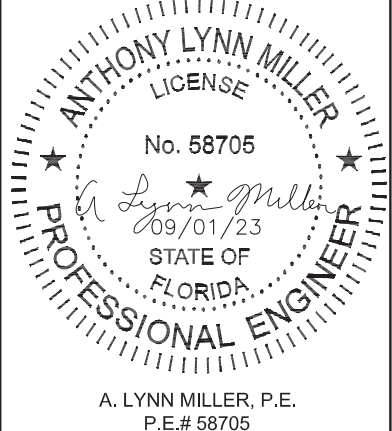
3780 W 104TH STREET
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(305) 593-6590

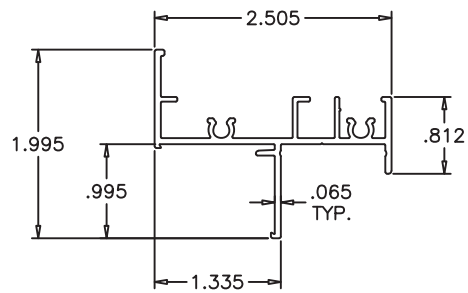
PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275

(941) 480-1600

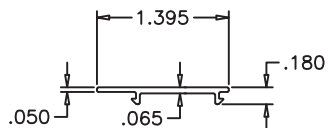
REGISTRATION #29296

Series	PW-130 LM	Sheet	5 OF 7	DWG No.	PW130LMI-NOA	Rev.	B
Rev	Desc.	Title		Date			
		"SENTINEL" SERIES 130 FIXED WINDOW - LM		05/22/19			
		TYPICAL INSTALL DETAILS		AGK			
		REMOVE ULTRA-CONS, HEAD NOTE		08/31/23			

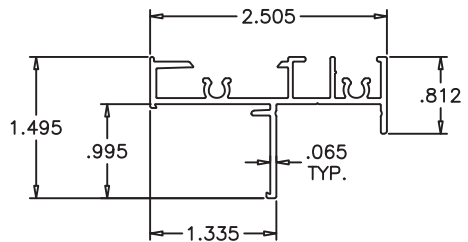




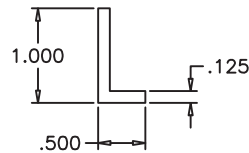
E1 FLANGE FRAME



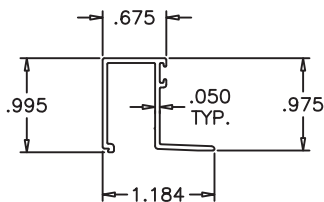
M3 FLUSH FRAME COVER



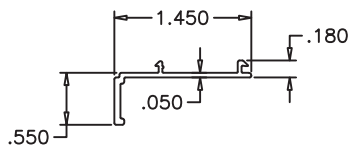
E2 FLUSH FRAME/FIN FRAME



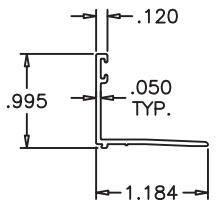
M4 GLAZING ANGLE (LAM. INSUL. GLASS)



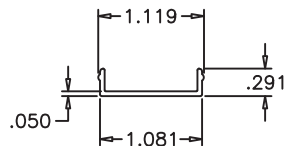
E3 GLAZING BEAD (LAM. GLASS)



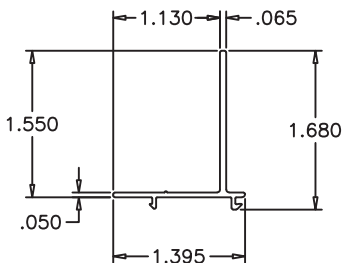
E6 FLANGE ADAPTOR



E4 GLAZING BEAD (LAM. INSUL. GLASS)

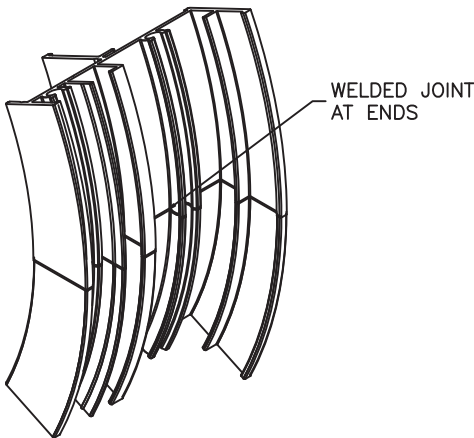


M2 SCREW COVER

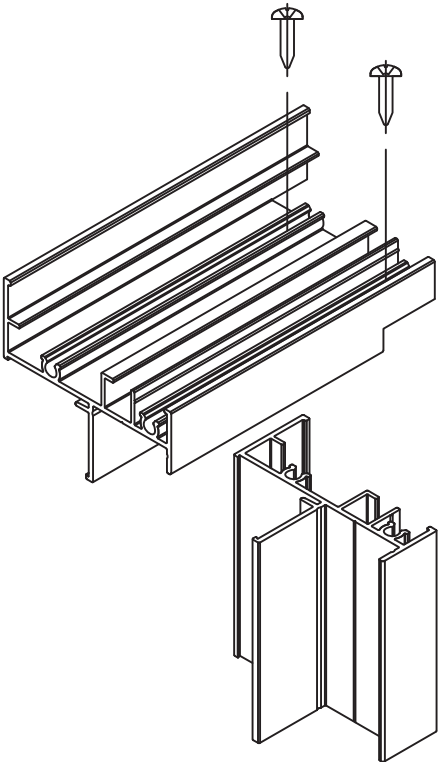


E5 NAIL FIN ADAPTER

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	CGI-118	4/ WDW.	FLANGE FRAME	6063-T6	-
E2	CGI-119	4/ WDW.	FLUSH FRAME/FIN FRAME	6063-T6	-
E3	CGI-121	4/ WDW.	GLAZING BEAD (LAM. GLASS)	6063-T6	-
E4	CGI-123	4/ WDW.	GLAZING BEAD (LAM. INSUL. GLASS)	6063-T6	-
E5	CGI-110	4/ WDW.	NAIL FIN ADAPTOR	6063-T6	-
E6	CGI-109	4/ WDW.	FRONT FLANGE ADAPTOR	6063-T6	-
E7	HD-12-10106	AS REQD.	IG GLAZING BULB VINYL	TPV	DUROMETER 75± / RIGID
M1	CGI-382V	AS REQD.	GLAZING BULB VINYL	PVC	DUROMETER 75-80 SHORE A
M2	CGI-124	AS REQD.	SCREW COVER- OPTIONAL	PVC	-
M3	CGI-112	AS REQD.	FLUSH FRAME COVER	PVC	-
M4	-	OPTIONAL	GLAZING ANGLE (1 X 1/2 X 1/8")	6063-T5	-
M5	-	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 85±5 SHORE A
S2	#10 X 1-1/4"	2/ CORNER	ASSEMBLY SCREW PHL. PH SMS	ST/ST	-



CIRCULAR WINDOWS



RECT. OR SQUARE WINDOWS

TYP. CORNER DETAILS

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(305) 593-6590

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

REGISTRATION #29296

Series	PW-130 LM	Sheet	7 OF 7	DWG No.	PW130LMI-NOA	Rev.	B
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ANTHONY LYNN MILLER
LICENSE
No. 58705
09/01/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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