



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 "Sentinel 110" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **SH110-LM-NOA**, titled "Series 110 Alum. Single Hung Window (LM)", sheets 1 through 9 of 9, dated 07/02/20, with revision **B** dated 08/24/2023, 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# 20-0722.09** 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. 23-0911.03
Expiration Date: September 22, 2025
Approval Date: October 26, 2023

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No.10-0510.11)
2. Drawing No **W10-03**, titled "Series Sentinel 110 Alum S.H. Wdw. (L.M.I./S.M.I.)", sheets 1 through 9 of 9, dated 02/02/10, with revision D dated 09/29/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No.17-1018.08)

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 FBC 2411.3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series "Sentinel" aluminum single hung window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0080-0101-10**, dated 02/03/10, signed and sealed by Vinu J. Abraham, P.E. *(Submitted under NOA No. 10-0510.11)*
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 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.15-0512.09)
3. 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



Sifang Zhao, P.E.
Product Control Examiner
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B. TESTS (CONTINUED)

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. 20-0722.09)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 07/11/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (Submitted under NOA No.20-0722.09)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

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**”, expiring on 12/11/23.
4. Notice of Acceptance No. **17-0712.05** issued to **Eastman Chemical Company (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/21.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0911.03
Expiration Date: September 22, 2025
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CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and the **FBC 7th Edition (2020)**, dated July 16, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (*Submitted under NOA No. 20-0722.09*)
2. Statement letter of no financial interest, dated July 16, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. (*Submitted under NOA No. 20-0722.09*)
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 July 16, 2020, signed and sealed by Anthony Lynn Miller, P.E. (*Submitted under NOA No. 20-0722.09*)

G. OTHERS

Notice of Acceptance No. **17-1018.08**, issued to CGI Windows & Doors for their Series "Sentinel 110" Aluminum Single Hung Window - L.M.I., approved on 12/21/17 and expiring on 09/22/20.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No **SH110-LM-NOA**, titled "Series 110 Alum Single Hung Window (LM)", sheets 1 through 9 of 9, dated 07/02/20, with revision **B** dated 08/24/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **23-0717.26** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas[®] Xtra[™] (SGX[™]) Clear Glass Interlayer**", 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**", 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.



Sifang Zhao, P.E.
Product Control Examiner
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. STATEMENTS

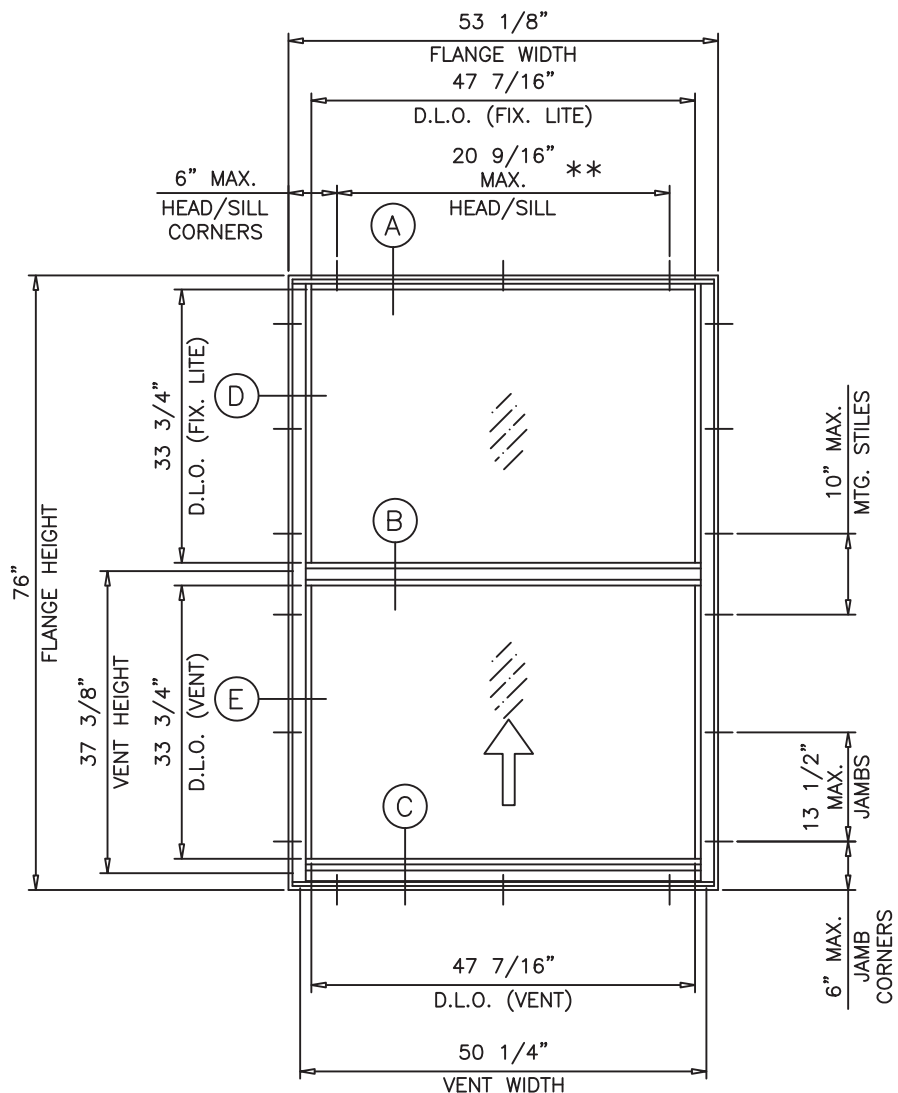
1. Statement letter of conformance, complying with **FBC 7th Edition (2020)** and the **FBC 8th Edition (2023)**, dated September 07, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated September 07, 2023, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

G. OTHERS

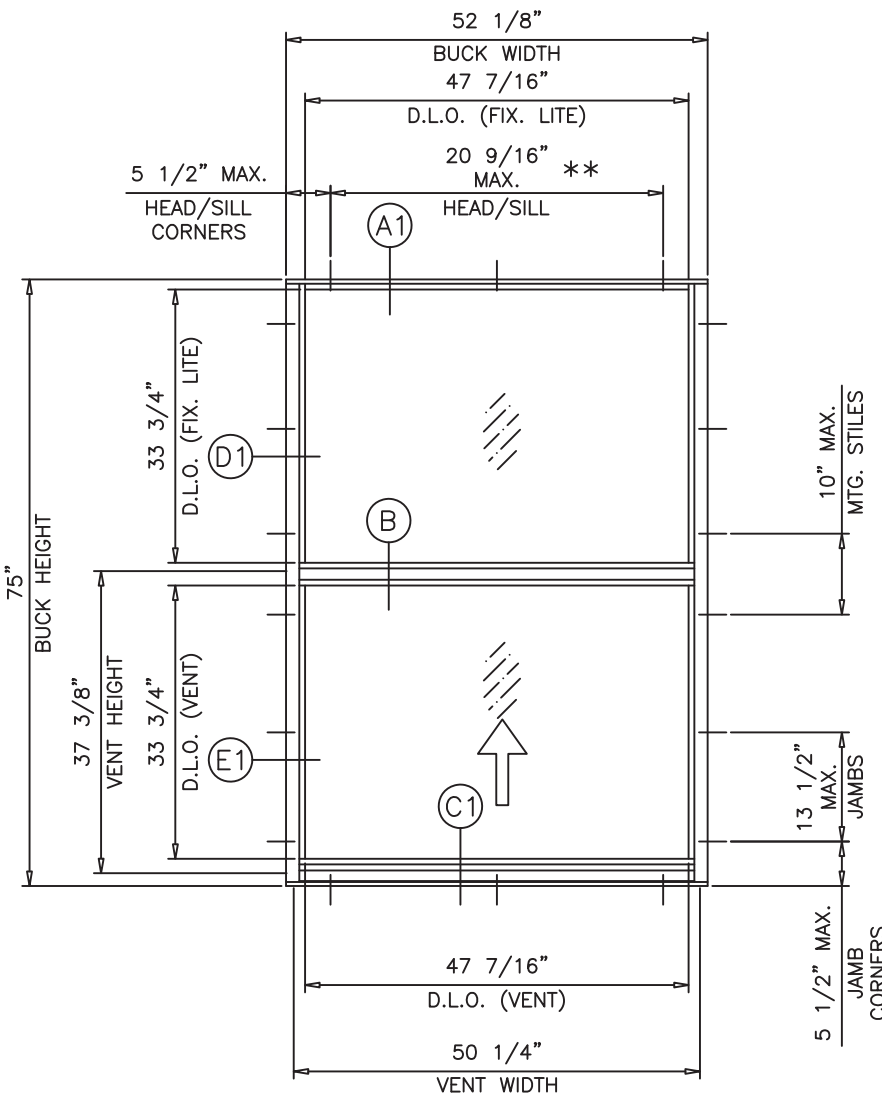
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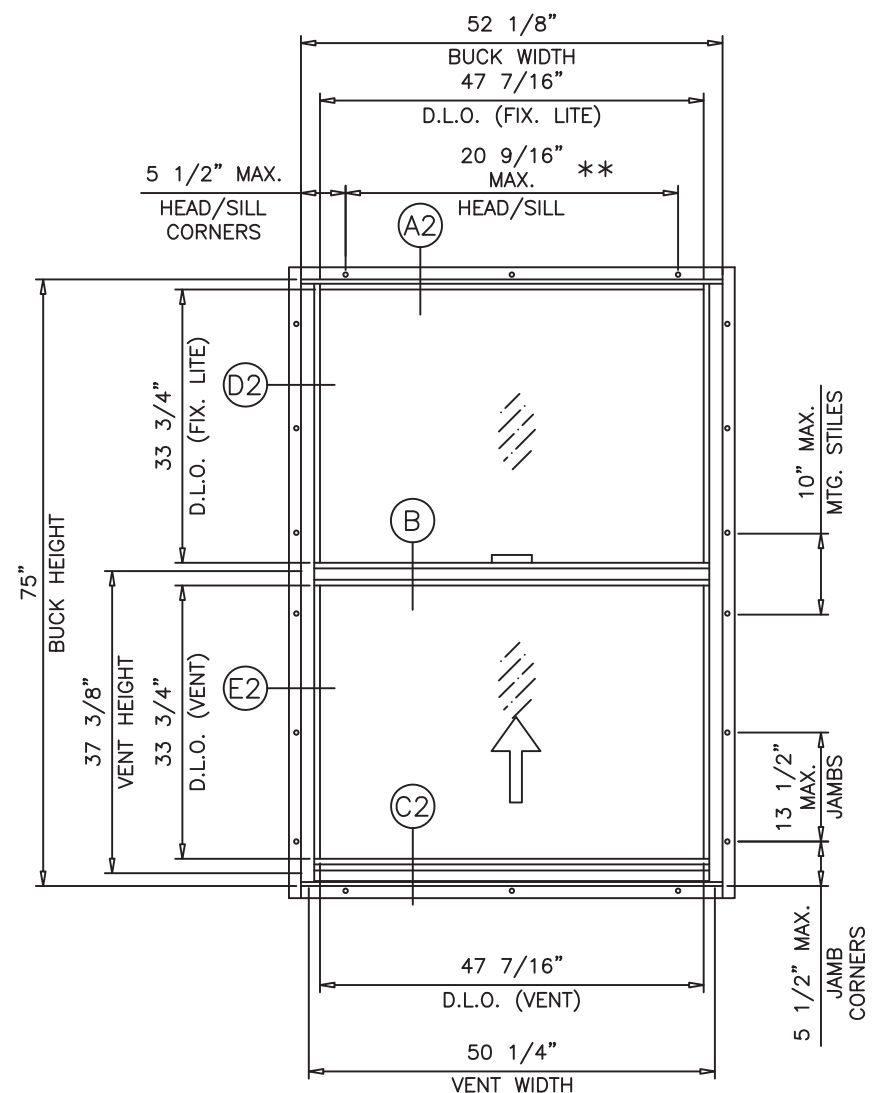
Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-0911.03
Expiration Date: September 22, 2025
Approval Date: October 26, 2023



FLANGE & FLANGE ADAPTOR FRAME



EQUAL LEG FRAME



FIN FRAME

**SERIES SENTINEL 110 ALUMINUM SINGLE HUNG WINDOW
LARGE & SMALL MISSILE (LM & SM)**

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 S.H./S.H. OR SINGLE HUNG WINDOW 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) AND 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASED MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

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.

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

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.

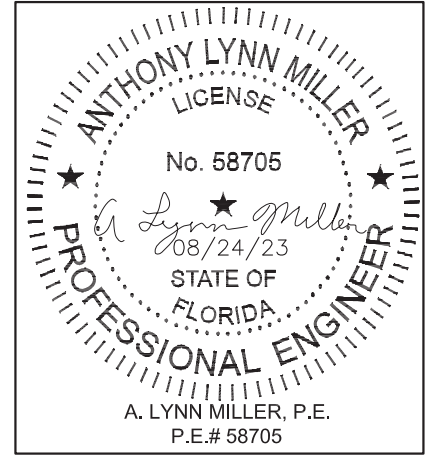
**** CENTER ANCHOR REQUIRED WHEN SPACING EXCEEDS 20 9/16"**

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0911.03
Expiration Date 09/22/2025
By
Miami-Dade Product Control

Revision:
B) ADD NOTES; ANCHOR HEAD TYPES, TRIM FLANGE FRAMES, UPDATE TO 2023 FBC, REMOVE FALSE MUNTINS.
- SB - 08/24/23

Impact Resistant Windows & Doors WE'RE STRONGER™ 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 DATE 07/02/20	DRAWN BY JENS ROSOWSKI DATE 07/02/20	DWG No. SH110-LM-NOA	REV B
	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM)			SHEET 1 OF 9	TITLE "SENTINEL"

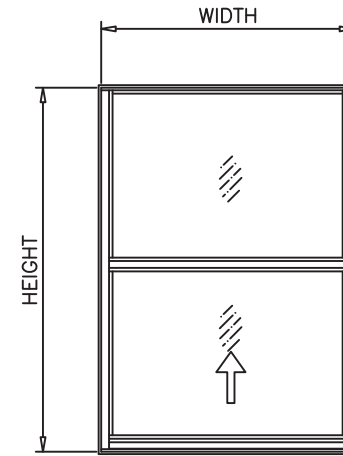


Equal Lite Windows								
Window Design Pressure (+/- psf) for Glass Types A & A1								
Window Dimensions			Height (in.)					
Width (in.)	Flange Dims	Buck Dims	26	38-3/8	50-5/8	63	76	85
			25	37-3/8	49-5/8	62	75	84
	19-1/8	18-1/8	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75
	26-1/2	25-1/2	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75
	37	36	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75
	46-1/2	45-1/2	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75
	49	48	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75
	53-1/8	52-1/8	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75	+75 /-75

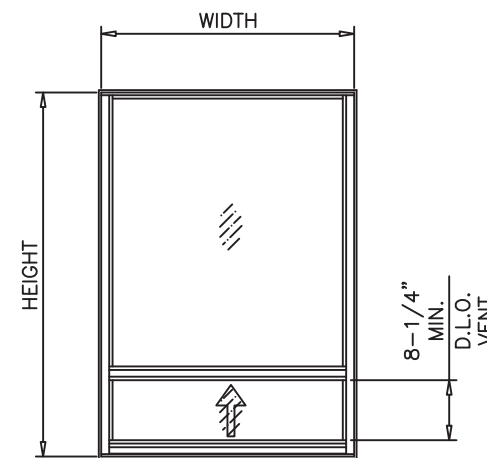
Equal Lite Windows								
Window Design Pressure (+/- psf) for Glass Types B & B1								
Window Dimensions			Height (in.)					
Width (in.)	Flange Dims	Buck Dims	26	38-3/8	50-5/8	63	76	85
			25	37-3/8	49-5/8	62	75	84
	19-1/8	18-1/8	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85
	26-1/2	25-1/2	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85
	37	36	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85
	46-1/2	45-1/2	+80 /-85	+85 /-80	+85 /-80	+85 /-85	+80 /-85	+80 /-85
	49	48	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85
	53-1/8	52-1/8	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85	+80 /-85

Unequal Lite Windows					
Window Design Pressure (+/- psf) for Glass Types A & A1					
Window Dimensions			Height (in.)		
Width (in.)	Flange Dims	Buck Dims	76	79	85
			75	78	84
	26-1/2	25-1/2	+75 /-75	+75 /-75	+75 /-75
	31	30	+75 /-75	+75 /-75	+75 /-75
	33	32	+75 /-75	+75 /-75	+75 /-75
	37	36	+75 /-75	+75 /-75	+75 /-75
	43	42	+75 /-75	+75 /-75	+75 /-75
	49	48	+75 /-75	+75 /-75	+75 /-75
	53-1/8	52-1/8	+75 /-75		

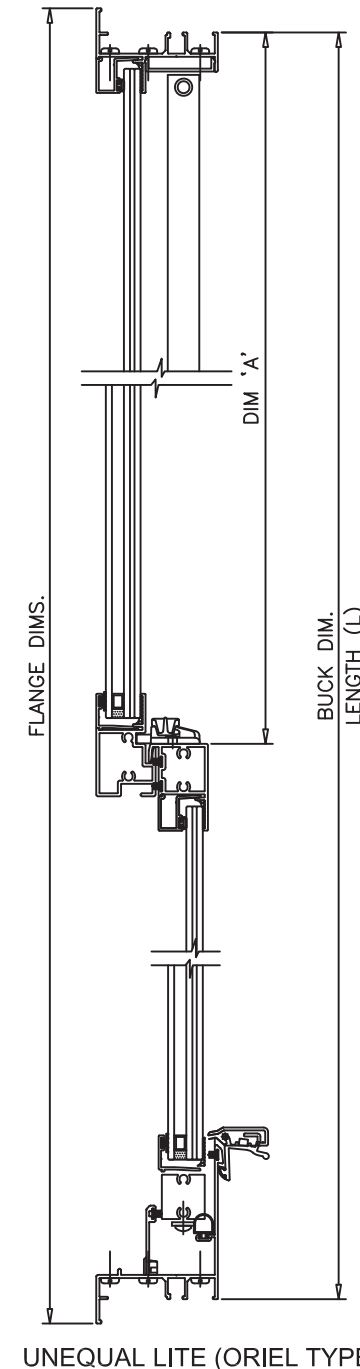
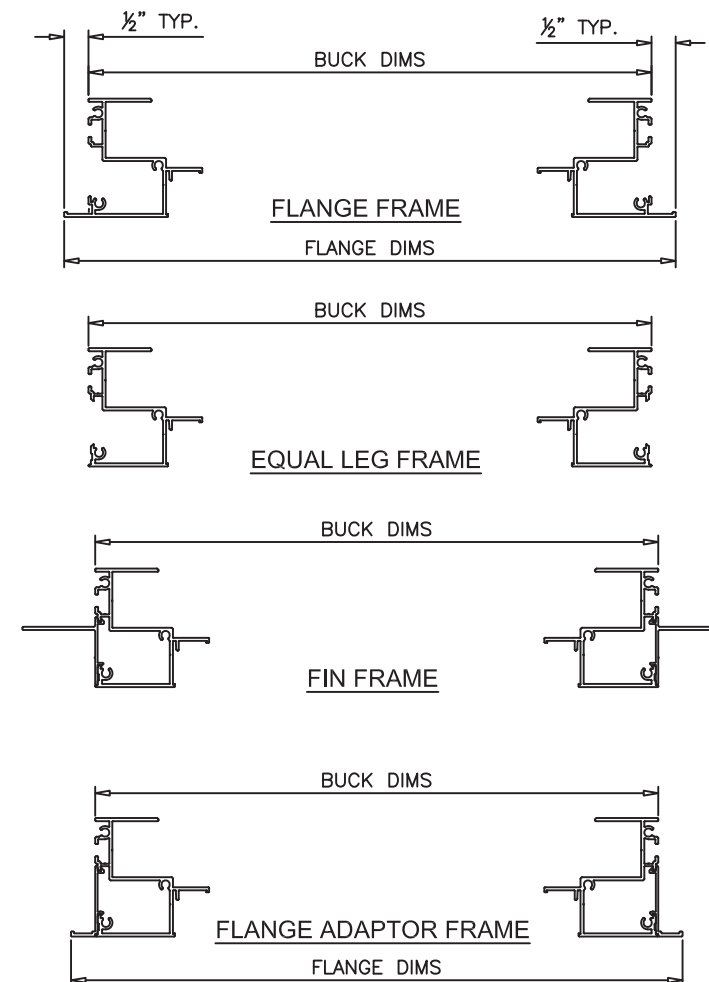
Unequal Lite Windows					
Window Design Pressure (+/- psf) for Glass Types B & B1					
Window Dimensions			Flange Height (in.)		
Width (in.)	Flange Dims	Buck Dims	76	79	85
			75	78	84
	26-1/2	25-1/2	+80 /-85	+80 /-85	+80 /-85
	31	30	+80 /-85	+80 /-85	+80 /-85
	33	32	+80 /-85	+80 /-85	+80 /-85
	37	36	+80 /-85	+80 /-85	+80 /-85
	43	42	+80 /-85	+80 /-85	+80 /-85
	49	48	+80 /-85	+80 /-85	+80 /-85
	53-1/8	52-1/8	+80 /-85		



EQUAL LITE



UNEQUAL LITE (ORIEL TYPE)



UNEQUAL LITE (ORIEL TYPE)

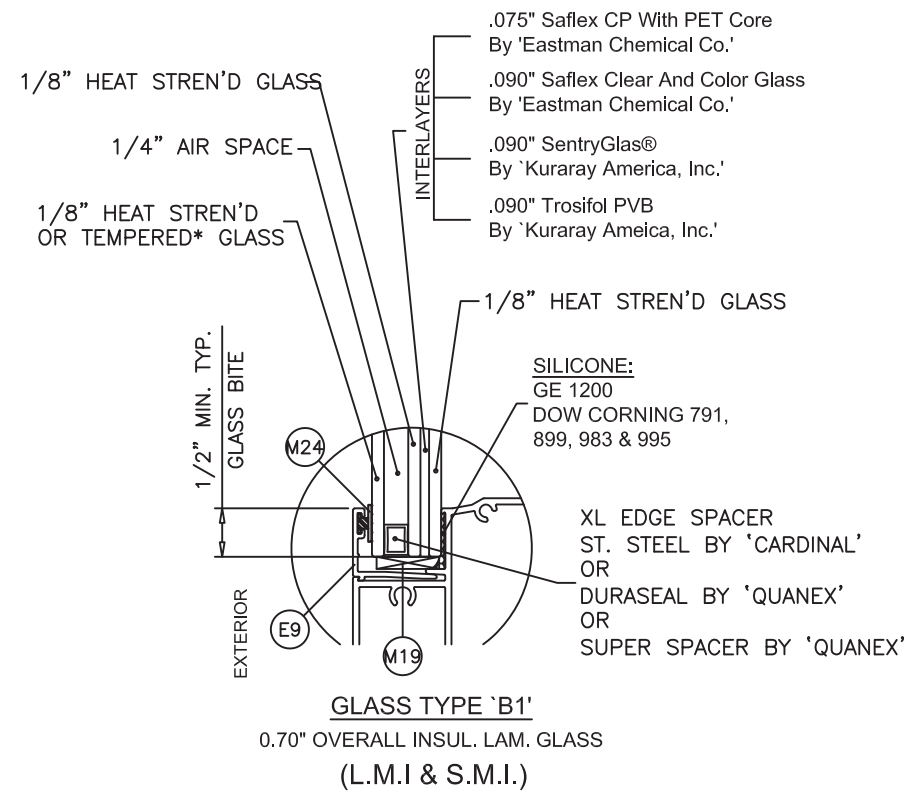
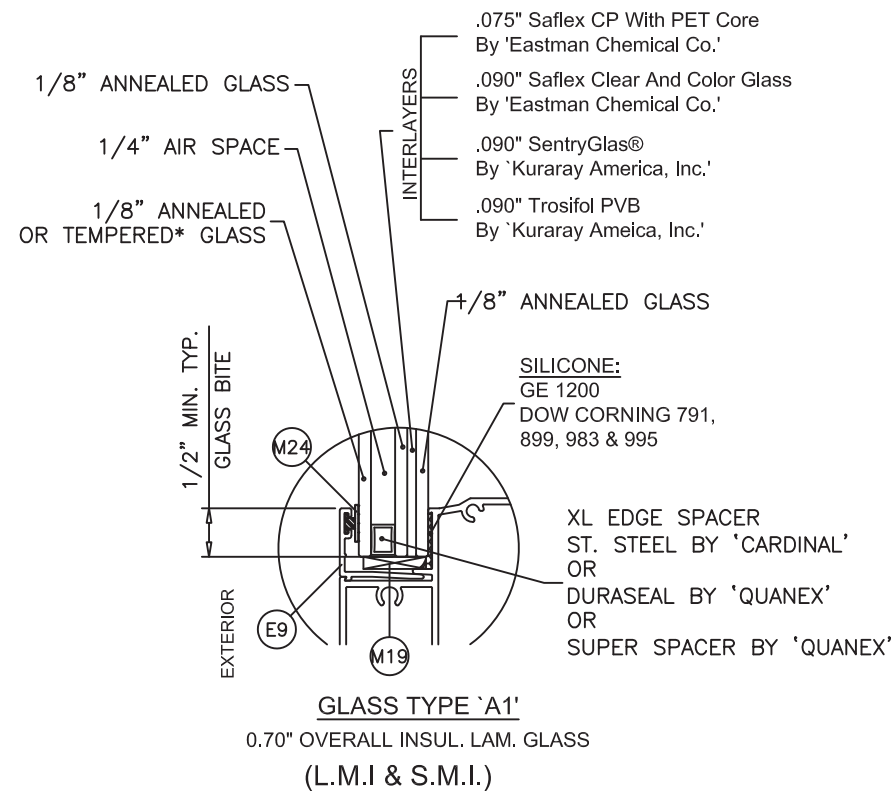
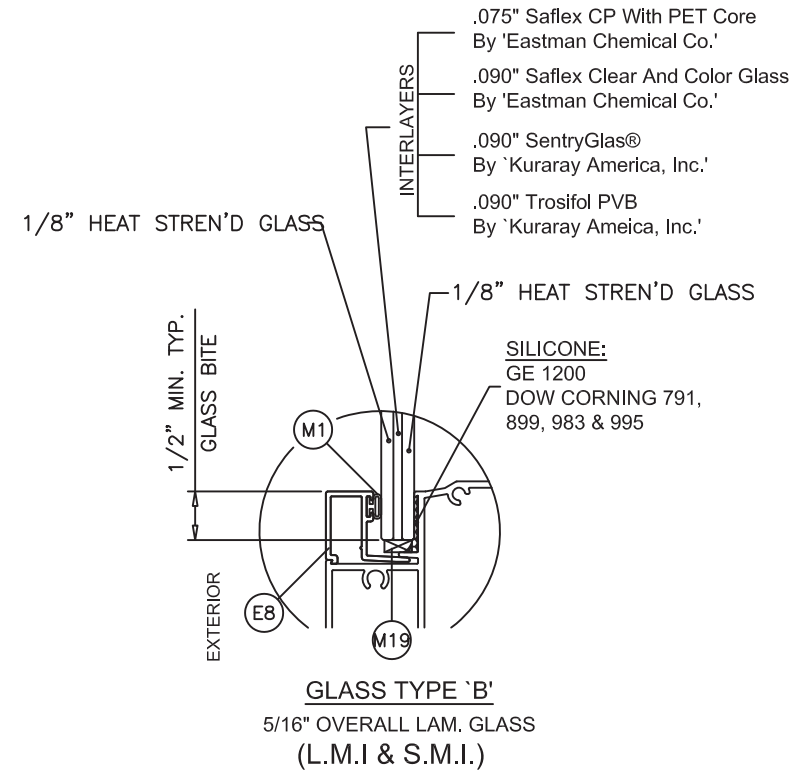
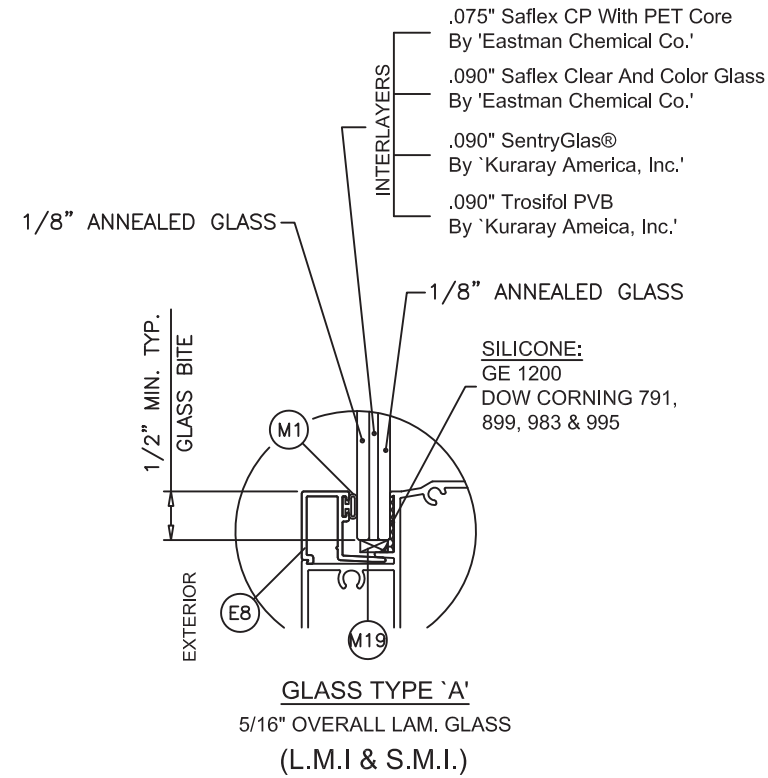
NOTES:
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0911.03
Expiration Date 09/22/2025
By
Miami-Dade Product Control

Revision:
B) RE-FORMAT DP TABLES.
- SB - 08/24/23

Impact Resistant Windows & Doors WE'RE STRONGER™ 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	07/02/20 Date	JENS ROSOWSKI Drawn By	SH110-LM-NOA DWG No.	B Rev
	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) DESIGN PRESSURE TABLES	2 OF 9 Sheet	"SENTINEL" Series		

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 08/24/23
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705

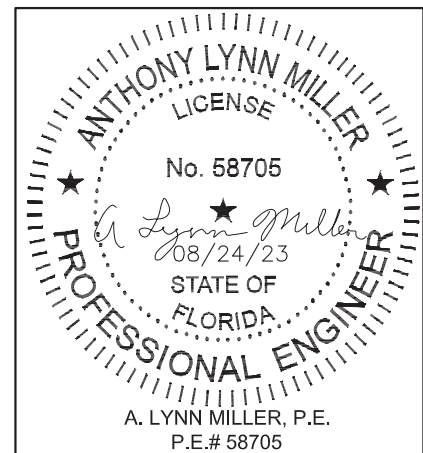


* FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, OR FOR SAFETY GLAZING APPLICATIONS PER THE FBC, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.

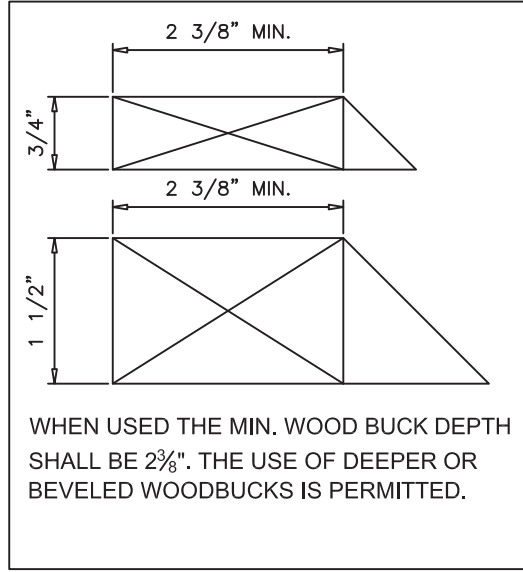
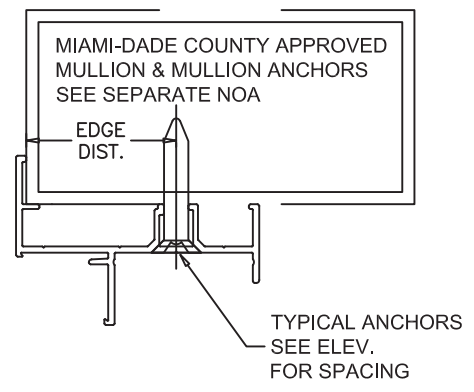
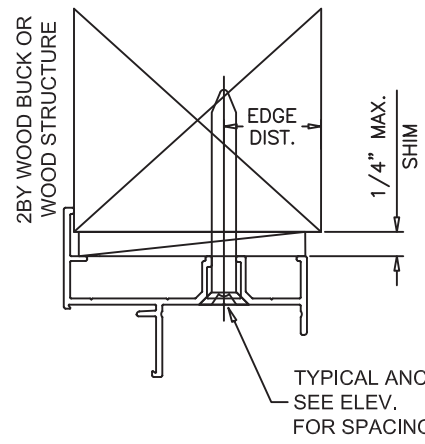
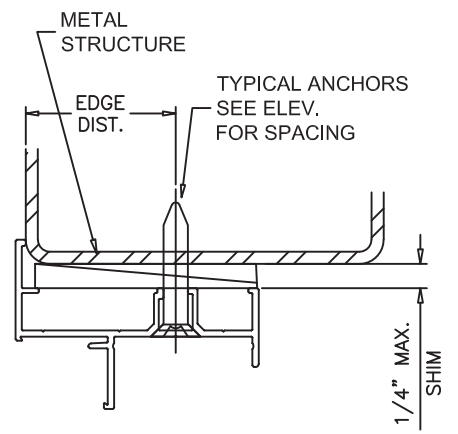
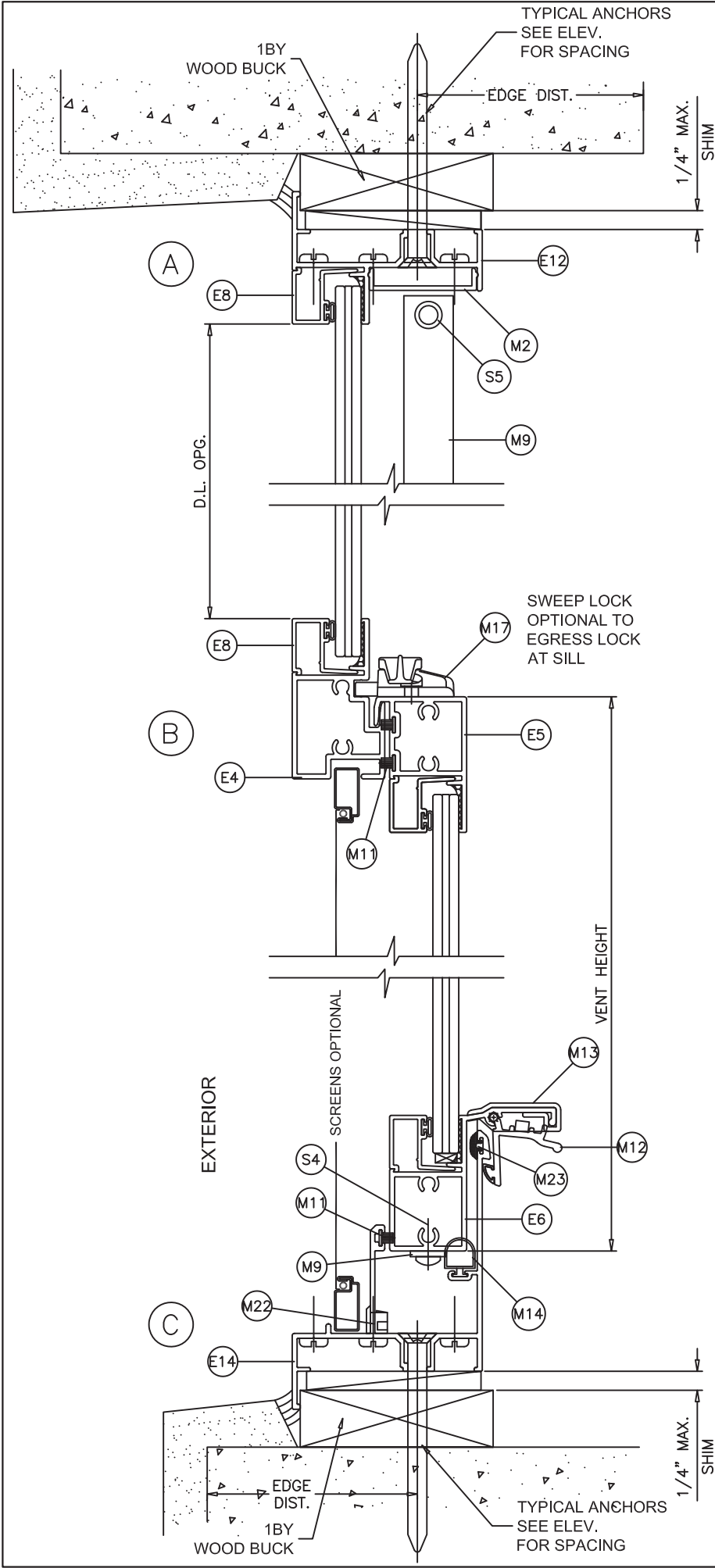
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0911.03
Expiration Date 09/22/2025
By
Miami-Dade Product Control

Revision: B) CHANGE GLAZING BEAD
TO ITEM M24 FOR IG
GLASS.
- SB - 08/24/23

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	07/02/20	Drawn By JENS ROSOWSKI	Rev. B
	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) GLASS OPTIONS	SH110-LM-NOA		
Impact Resistant Windows & Doors WE'RE STRONGER™ 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	Sheet 3 OF 9	DWG No.	SH110 "SENTINEL"	Series Desc. Title

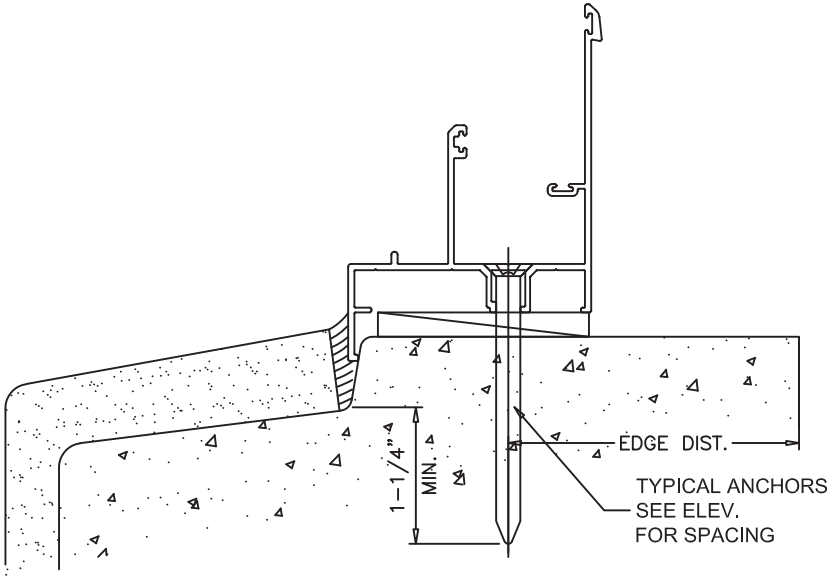


FLANGE & FLANGE ADAPTOR FRAME



WHEN USED THE MIN. WOOD BUCK DEPTH SHALL BE 2 3/8". THE USE OF DEEPER OR BEVELED WOODBUCKS IS PERMITTED.

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

- 1/4" DIA. TAPCON BY 'ITW' (Fu=125 KSI, Fy=100 KSI)
- 1/4" DIA. ULTRACON+ 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 CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
- DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
- #14 SMS OR SELF DRILLING SCREWS (Fu=74 KSI, Fy=57 KSI)
- INTO MIAMI-DADE COUNTY 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 = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

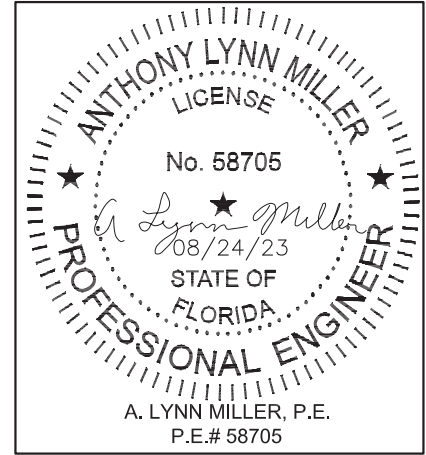
TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG=0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f_c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f_m = 2000 PSI MIN.

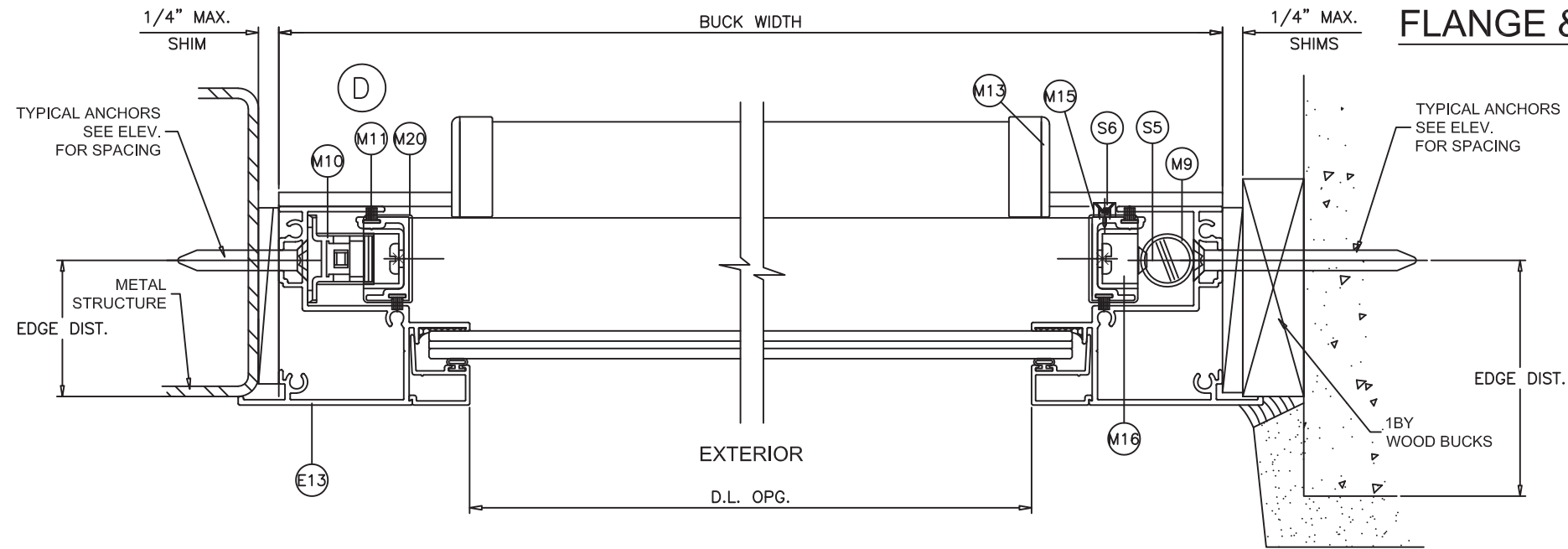
PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. 23-0911.03
 Expiration Date 09/22/2025
 By *[Signature]*
 Miami-Dade Product Control

Revision: B) DELETE 1/4" ULTRACON. - SB - 08/24/23

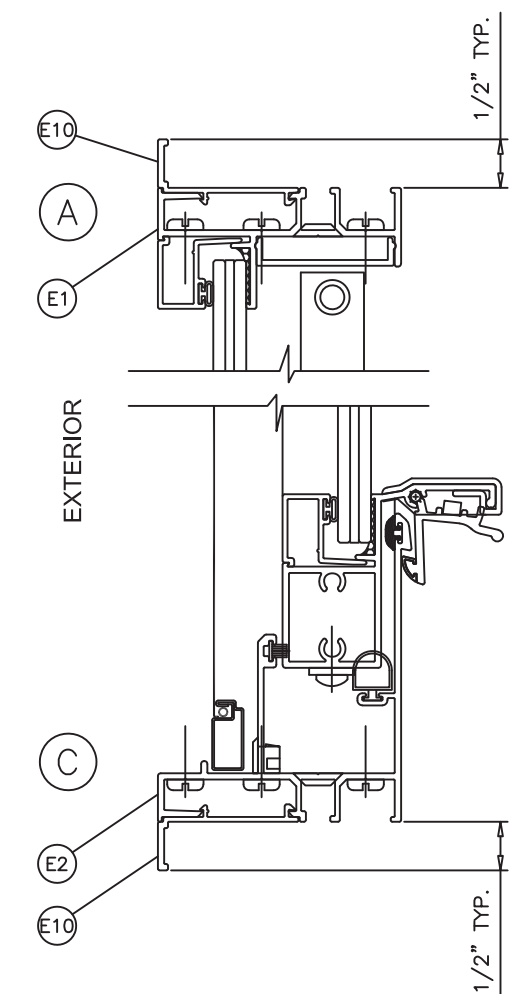
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	07/02/20	Drawn By JENS ROSOWSKI	DWG No. SH110-LM-NOA	Rev B
	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) FLANGE DETAILS	4 OF 9			



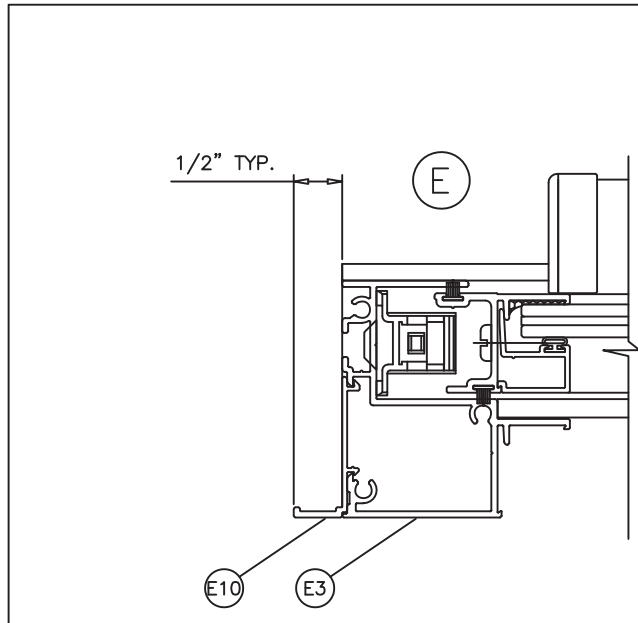
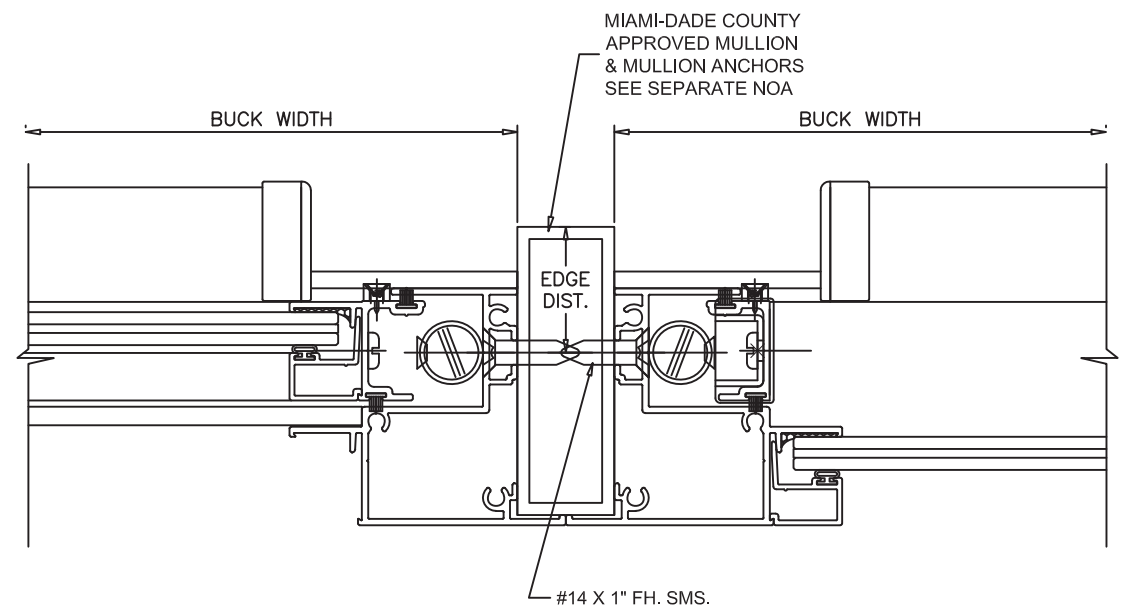
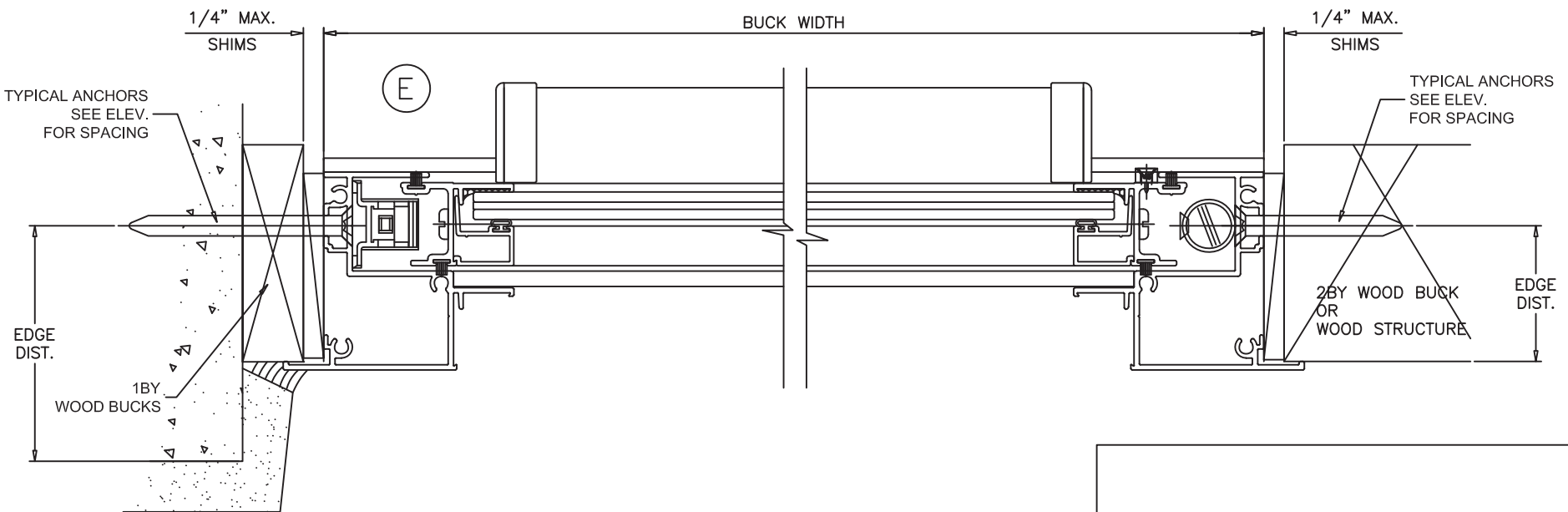
FLANGE & FLANGE ADAPTOR FRAME



FLANGE ADAPTOR FRAME



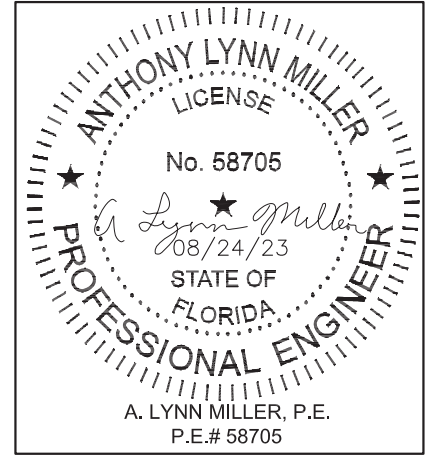
INSTALLATION DETAILS SHOWN ON PAGES 4 AND 5 APPLY TO BOTH FLANGE FRAME AND FLANGE ADAPTOR FRAMES.

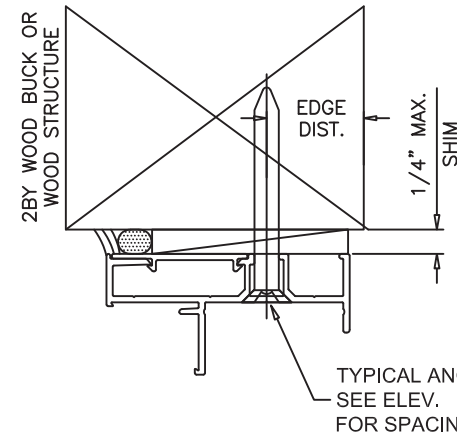
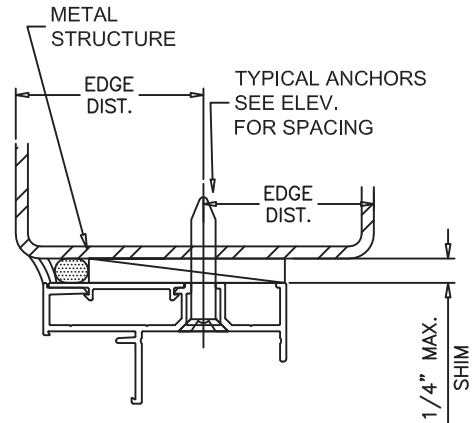
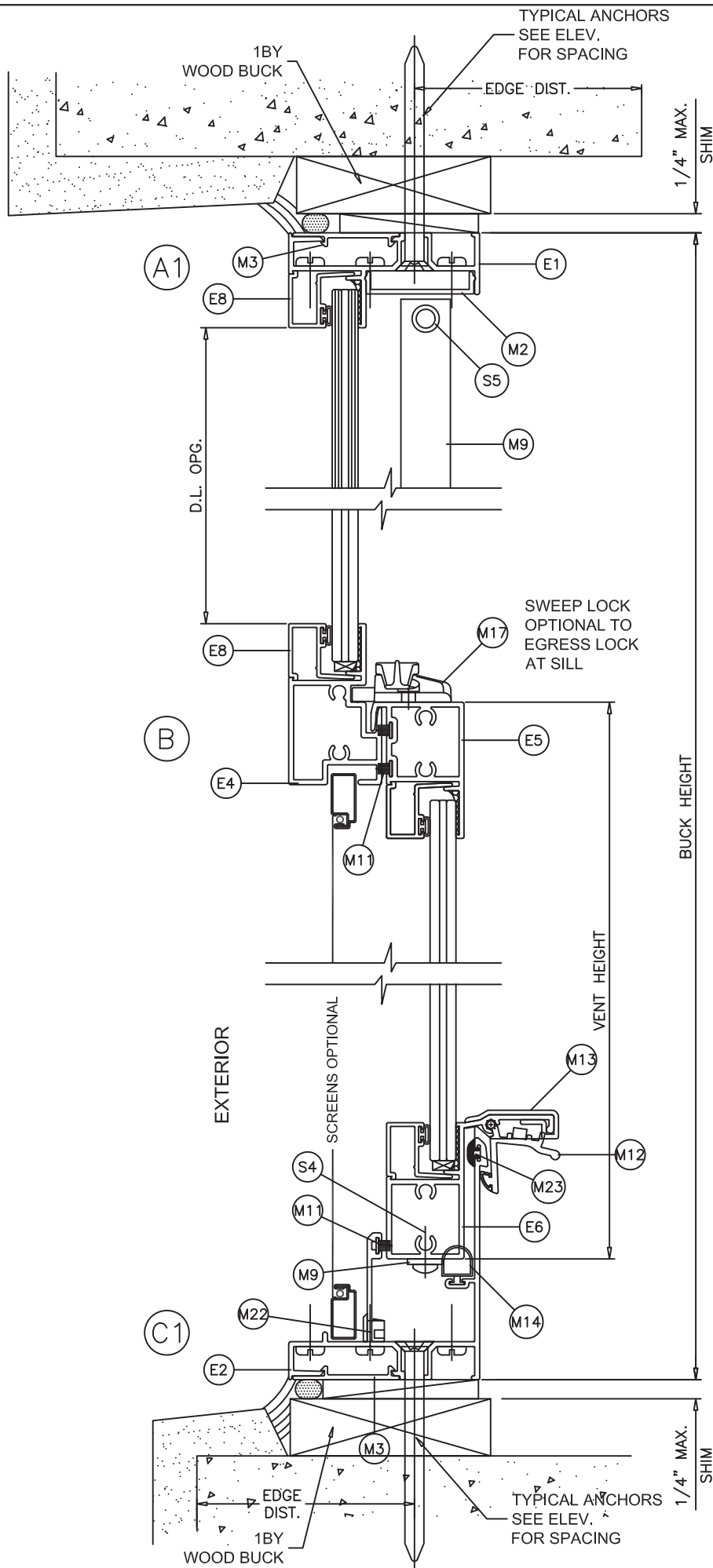


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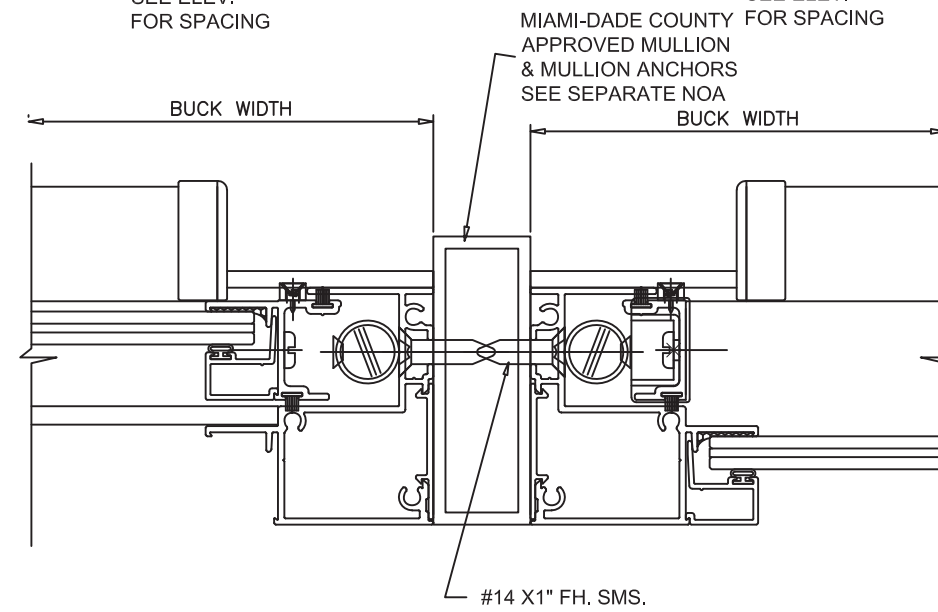
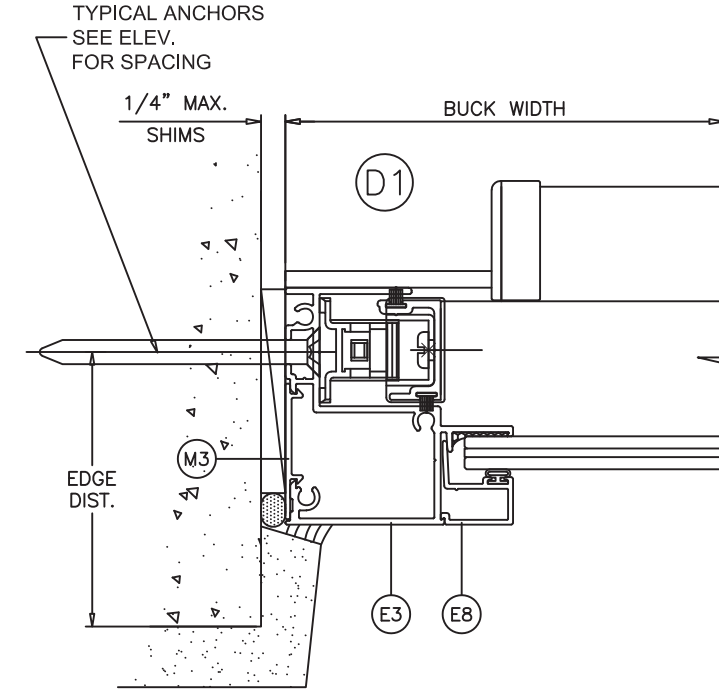
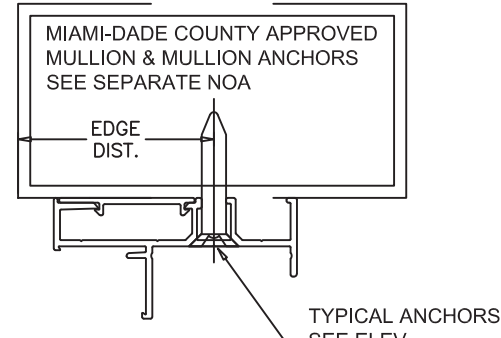
Revision: B) NO CHANGES, THIS SHEET.
 - SB - 08/24/23

Impact Resistant Windows & Doors WE'RE STRONGER™ 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 07/02/20	Drawn By JENS ROSOWSKI	DWG No. SH110-LM-NOA	Rev B
	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) FLANGE DETAILS	5 OF 9	Sheet SH110 "SENTINEL"	Date 07/02/20	Title JENS ROSOWSKI

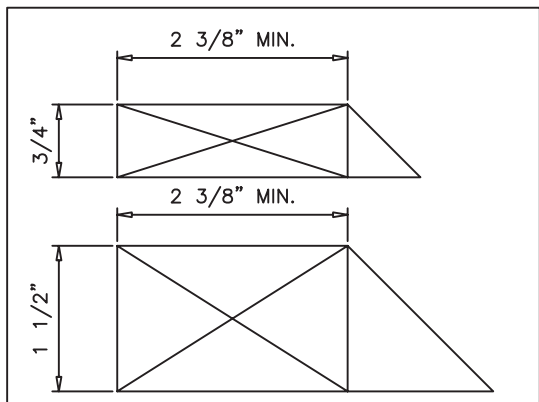




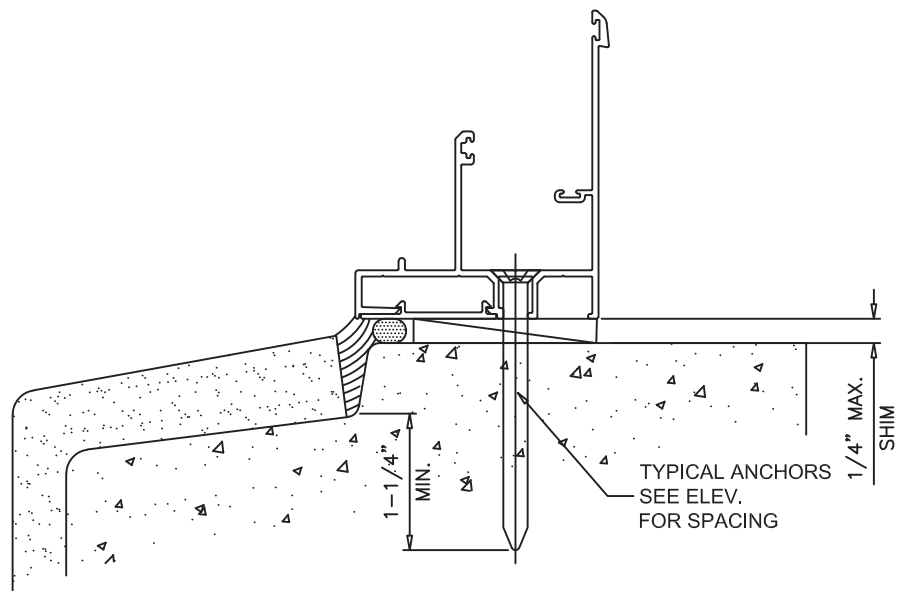
EQUAL LEG FRAME



EQUAL LEG FRAME CAN BE INSTALLED DIRECTLY INTO WOOD, CONCRETE OR METAL STRUCTURES WITHOUT THE NEED OF A WOOD BUCK.



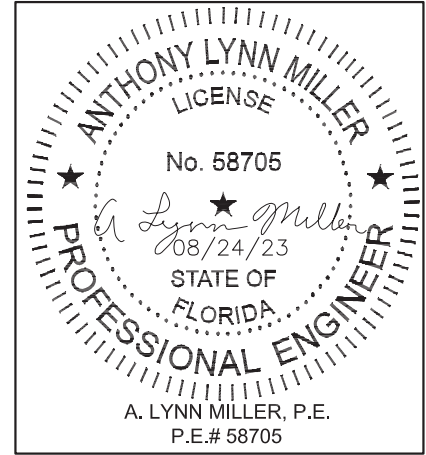
WHEN USED THE MIN. WOOD BUCK DEPTH SHALL BE 2 3/8". THE USE OF DEEPER OR BEVELED WOODBUCKS IS PERMITTED.



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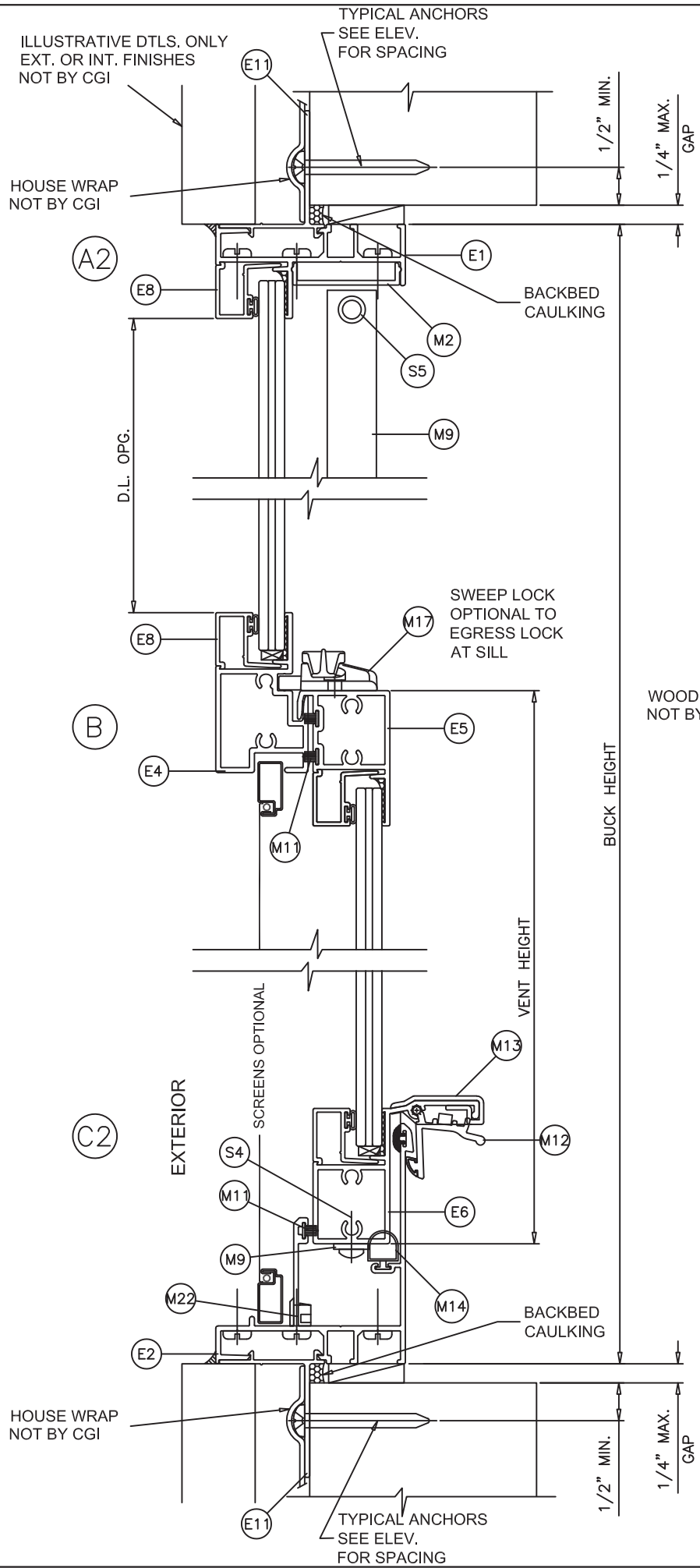
Revision: B) NO CHANGES, THIS SHEET.
- SB - 08/24/23

Impact Resistant Windows & Doors WE'RE STRONGER™ 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	07/02/20 Date	JENS ROSOWSKI Drawn By	SH110-LM-NOA Rev.	B
	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) Date	07/02/20	JENS ROSOWSKI By	SH110-LM-NOA Rev.	B
EQUAL LEG DETAILS Series Desc. Title	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) Date	07/02/20	JENS ROSOWSKI By	SH110-LM-NOA Rev.	6 OF 9 Sheet
SH110 "SENTINEL" Series	EQUAL LEG DETAILS Desc. Title	07/02/20 Date	JENS ROSOWSKI Drawn By	SH110-LM-NOA Rev.	6 OF 9 Sheet



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

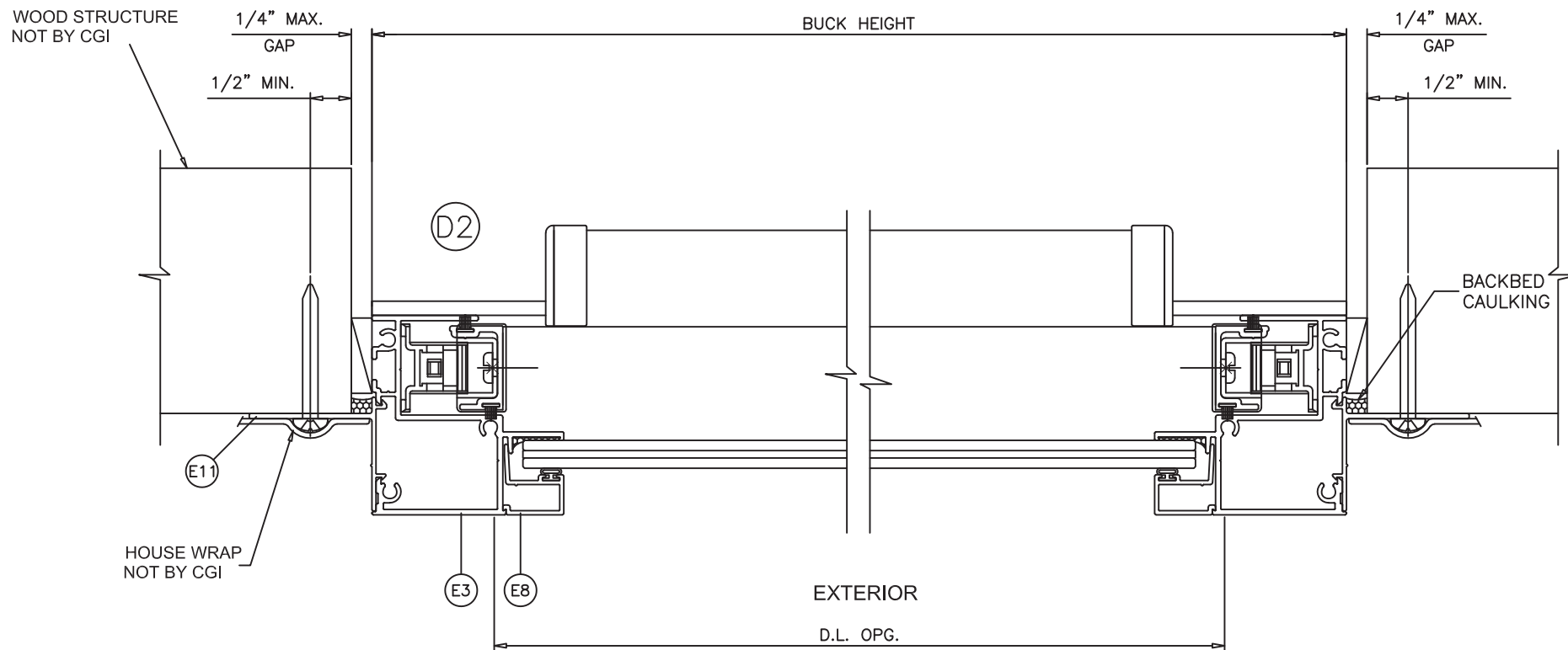
FIN FRAME



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#8 SMS (Fu=74 KSI, Fy=57 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/4" MIN. PENETRATION INTO WOOD

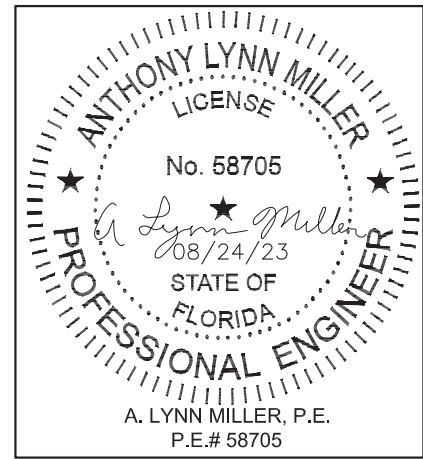
NOTE: HYBRID CONFIGURATIONS (FLANGE FRAME AT MULLION AND FIN ON OTHER SIDES) ALLOWED WITH MULLION. SEE PAGES 4 & 5 FOR FLANGE INSTALLATION DETAILS.




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Revision:
 B) ADD NOTE, HYBRID
 FRAMES.
 - SB - 08/24/23

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	07/02/20	Drawn By JENS ROSOWSKI	DWG No. SH110-LM-NOA	Rev. B
	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) FIN DETAILS	Sheet 7 OF 9			
Impact Resistant Windows & Doors WE'RE STRONGER™ 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	Series SH110 "SENTINEL"	Title FIN DETAILS	Desc.	Title JENS ROSOWSKI	Title SH110-LM-NOA

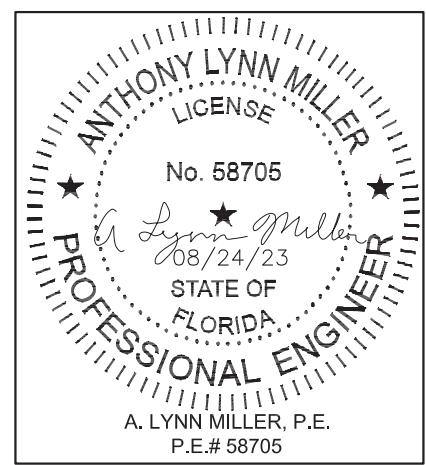


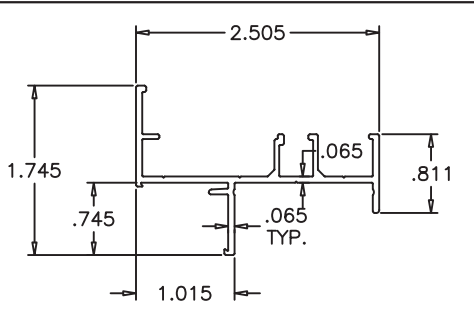
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	CGI-100	1	FRAME HEAD	6063-T6	-
E2	CGI-101	1	FRAME SILL	6063-T6	-
E3	CGI-102	2	FRAME JAMB	6063-T6	-
E4	CGI-103	1	MEETING RAIL	6063-T6	-
E5	CGI-104	1	LOCK RAIL	6063-T6	-
E6	CGI-105	1	HANDLE RAIL	6063-T6	-
E7	CGI-106	2	SASH RAIL	6063-T6	-
E8	CGI-107	AS REQD.	5/16" GLAZING BEAD	6063-T5	-
E9	CGI-108	AS REQD.	0.700" GLAZING BEAD	6063-T5	-
E10	CGI-109	AS REQD.	FRONT FLANGE ADAPTOR	6063-T6	-
E11	CGI-110	AS REQD.	NAIL FIN ADAPTOR	6063-T5	-
E12	CGI-135	1	FLANGE FRAME HEAD	6063-T6	-
E13	CGI-136	2	FLANGE FRAME JAMB	6063-T6	-
E14	CGI-137	1	FLANGE FRAME SILL	6063-T6	-
E17	CGI-605	OPTIONAL	SCREEN FRAME	6063-T5	-
M1	CGI-382V	AS REQD.	GLAZING BULB VINYL (DUROMETER 75-80 SHORE A)	PVC	-
M2	CGI-111	OPTIONAL	SCREW COVER	PVC	PROTOTYPE OR EQUIV.
M3	CGI-112	AS REQD.	EQUAL LEG COVER/SHIM, 3" LONG AT ANCHOR LOCATIONS	PVC	-
M9	SUPER BOOST	2/ WDW.	SPIRAL BALANCE	-	BSI OR EQUIV.
M10	-	2/ WDW.	BLOCK/TACKLE BALANCE	-	BSI OR EQUIV.
M11	W23201NG	AS REQD.	PILE WITH CENTER FIN	WOOL	ULTRAFAB OR EQUIV.
M12	CGI-129	1/ WDW.	EGRESS LOCK	ALUM.	SULLIVAN
M13	CGI-131	2/ WDW.	HANDLE RAIL END CAP	NYLON	M&M
M14	E26018WN	-	D BULB-T SLOT	PVC	ULTRAFAB OR EQUIV.
M15	CGI-133	4/ WDW.	SASH GUIDE(SPIRAL BALANCE)	NYLON	M&M
M16	CGI-130	2/ WDW.	SASH TOP GUIDE(SPIRAL BALANCE)	NYLON	M&M
M17	A30730401-32	1/ WDW.	CAM LOCK	ZINC	TRUTH OR EQUIV.
M18	CGI-132	2/ WDW.	SASH STOP, 2" LONG	PVC	PROTOTYPE OR EQUIV.
M19	-	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 85±5 SHORE A
M20	CGI-125	2/ WDW.	SASH CAM (B/T BALANCE)	NYLON	M&M
M21	-	2/ WDW.	B/T BALANCE TAKE OUT CLIP	-	BSI OR EQUIV.
M22	146-6	2/ WDW.	WEEP COVER	NYLON	AMESBURY OR EQUIV
M23	CGI-134	-	SILL SPACER	PVC	PROTOTYPE OR EQUIV.
M24	HD-12-10106	AS REQUIRED	WEDGE GASKETS +/- 75 DUROMETER	TPV	-
S2	-	2 OR 3/CORNER	# 10 X 1 1/4" LG. PHL. PH. SMS. ST/ST. ASSEMBLY SCREW	-	-
S4	-	4/ WDW.	# 8 X 1/2" PH. SMS. ST/ST BALANCE BRACKET SCREW	-	-
S5	-	2/ WDW.	# 8 X 1" LG. FH. SMS. ST/ST. SPIRAL B. ASSEMBLY	-	-
S6	-	2/ LOCK	# 6 X 1/2" LG. FH. SMS. @ CGI-133 & CAM LOCK	-	-

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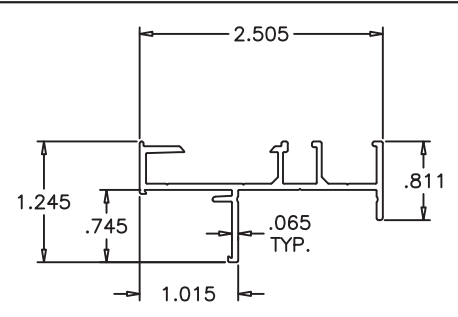
Revision:
B) ADD ITEM M24-GLAZING
BULB FOR IG GLASS.
- SB - 08/24/23

Impact Resistant Windows & Doors <small>WE'RE STRONGER™</small> 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	Date	07/02/20	Drawn By	JENS ROSOWSKI	Rev.	B	
		SERIES 110 ALUM. SINGLE HUNG WINDOW (LM)		BILL OF MATERIALS		DWG No.	SH110-LM-NOA	
		BILL OF MATERIALS		SERIES 110 ALUM. SINGLE HUNG WINDOW (LM)		8 OF 9		
		BILL OF MATERIALS		SERIES 110 ALUM. SINGLE HUNG WINDOW (LM)		8 OF 9		
Impact Resistant Windows & Doors <small>WE'RE STRONGER™</small> 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590		SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) BILL OF MATERIALS		"SENTINEL" SH110		8 OF 9 Sheet		

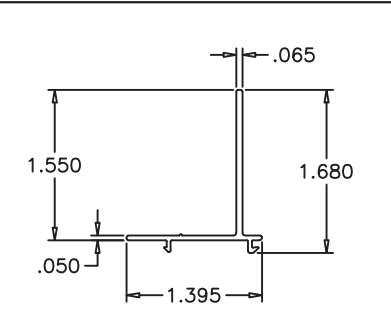




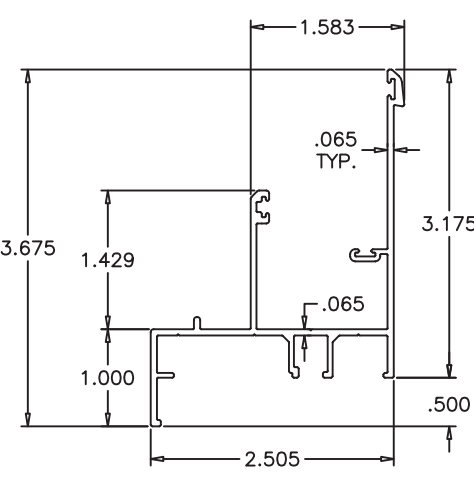
E12 FLANGE FRAME HEAD



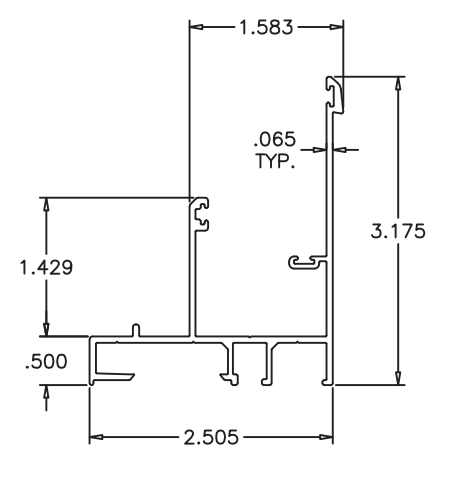
E1 FLUSH FRAME HEAD



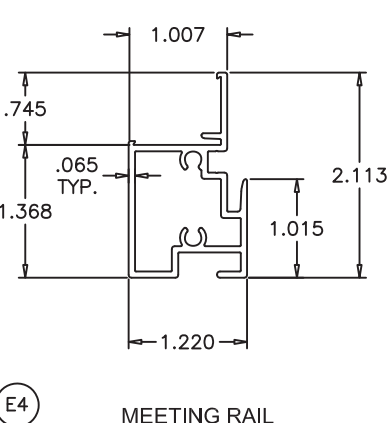
E11 NAIL FIN ADAPTER



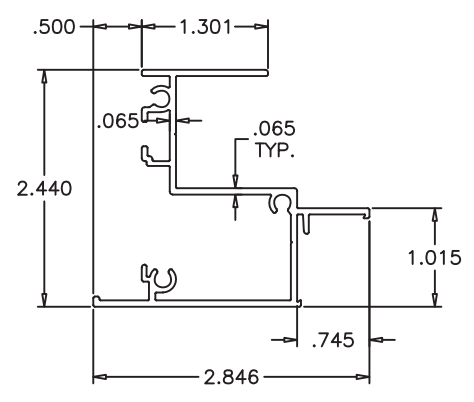
E14 FLANGE FRAME SILL



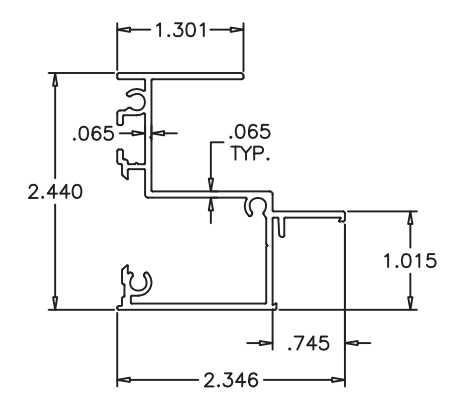
E2 FLUSH FRAME SILL



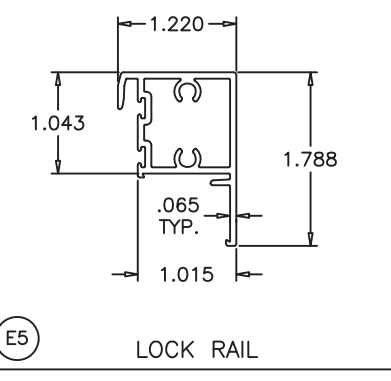
E4 MEETING RAIL



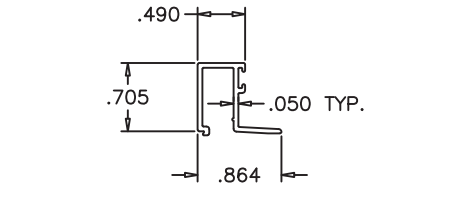
E13 FLANGE FRAME JAMB



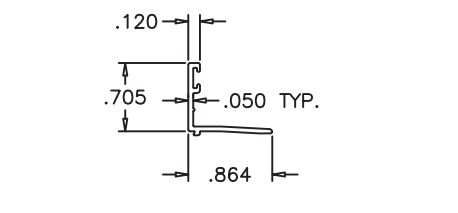
E3 FLUSH FRAME JAMB



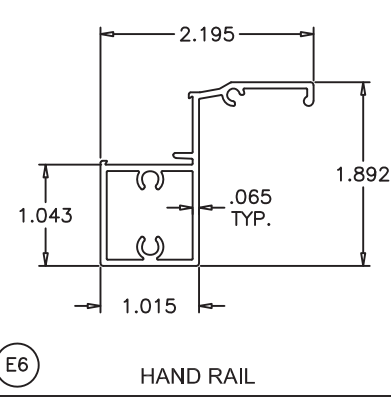
E5 LOCK RAIL



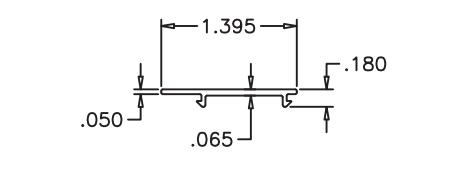
E8 5/16" GLAZING BEAD



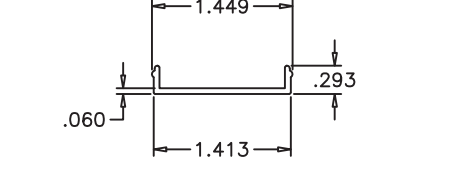
E9 .700" GLAZING BEAD



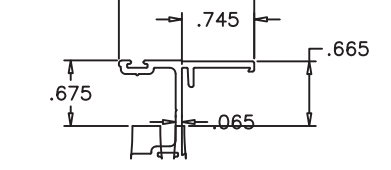
E6 HAND RAIL



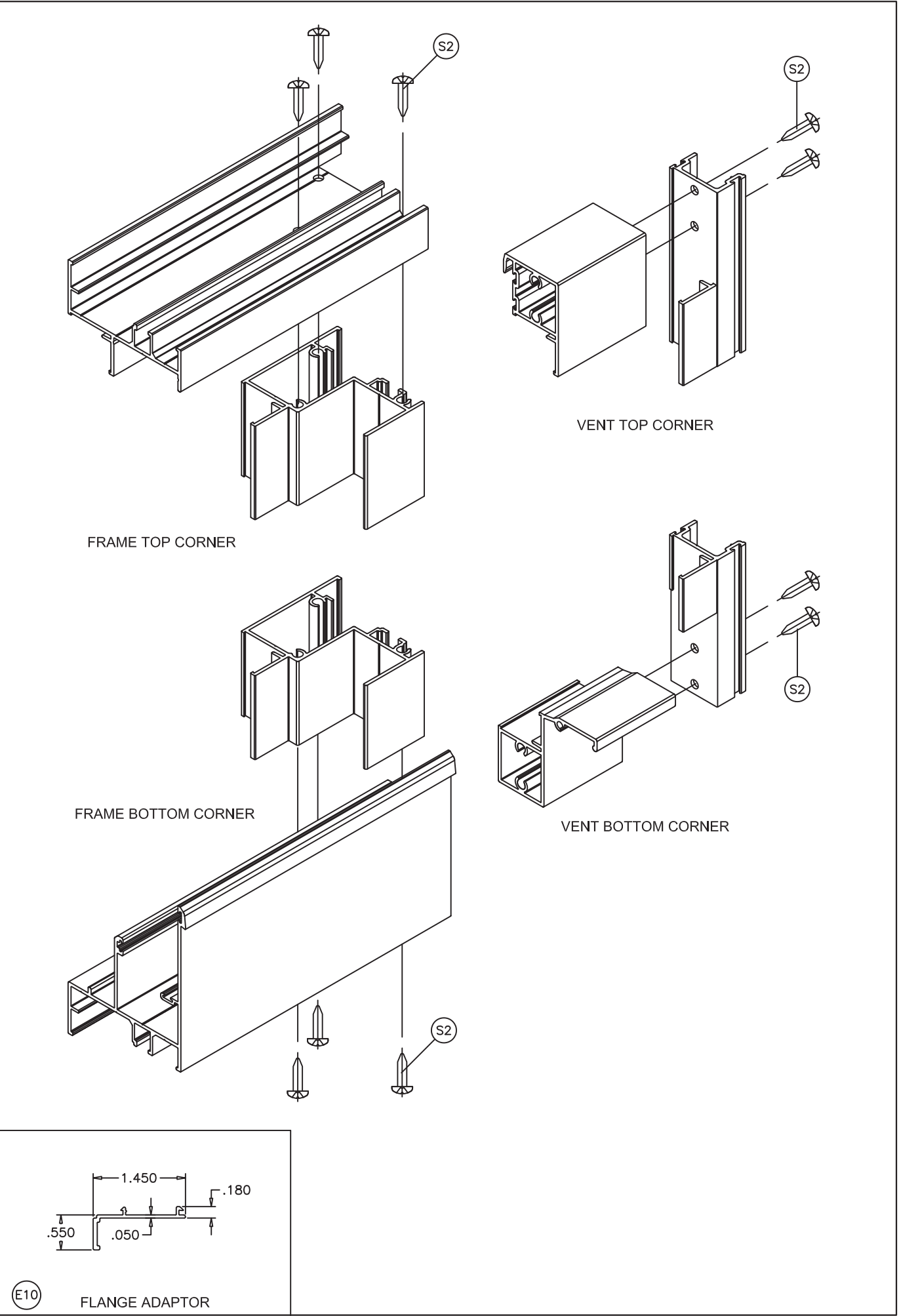
M3 FLUSH FRAME COVER



M19 SCREW COVER



E7 SASH RAIL



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Revision: B) NO CHANGES, THIS SHEET.
 - SB - 08/24/23

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	SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) EXTRUSIONS	No. 9 OF 9		
Impact Resistant Windows & Doors WE'RE STRONGER™ 3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590	Sheet "SENTINEL"	Title SERIES 110 ALUM. SINGLE HUNG WINDOW (LM) EXTRUSIONS	No. 9 OF 9	Rev B

