



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/economy

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

E.S. Windows, LLC
3550 NW 49th Street
Miami, FL 33142

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 "1600" Aluminum Fixed Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W05-46**, titled "Series-1600 Aluminum Fixed Window (S.M.I.)", sheets 1 through 5 of 5, dated 09/09/05, with revision **J** dated 07/06/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, 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 **renews NOA No. 23-0717.22** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




 2/23/26

NOA No. 26-0211.01
Expiration Date: March 31, 2027
Approval Date: March 05, 2026
 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. 05-1213.01)
2. Drawing No. **W05-46**, titled "Series-1600 Aluminum Fixed Window (L.M.I.)", sheets 1 through 5 of 5, dated 09/09/05, with revision **J** dated 07/06/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0717.22)

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 an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5695**, dated 07/20/09, signed and sealed by Julio E. Gonzalez, P.E.
(Submitted under NOA No. 09-1008.03)
2. Test reports on: 1) Small Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-05-1954**, dated 05/02/05, **HETI-05-1955**, dated 05/05/05, **HETI-05-1956**, dated 06/22/05 and **HETI-05-1957**, dated 07/22/05, all signed and sealed by Ivonne Ghia, P. E.
(Submitted under NOA No. 05-1213.01)
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
along with marked-up drawings and installation diagram of a fixed window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-05-1450**, dated 06/22/05 and **HETI-05-1449**, dated 04/28/05, signed and sealed by Ivonne Ghia, P.E.
(Submitted under NOA No. 05-1213.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2010, FBC 5th Edition (2014)** dated 12/22/15 and with **FBC 6th Edition (2017)** dated 09/22/17, and updated on 11/16/20 to comply with **FBC 7th Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1208.08)
2. Glazing complies with **ASTM E1300-09**


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0211.01
Expiration Date: March 31, 2027
Approval Date: March 05, 2026

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/15/22, expiring on 07/04/28.
2. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 11/19/20, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, with **FBC 8th Edition (2023)**, and of no financial interest, dated July 14, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0717.22)
2. Distributor Agreement between, E.S. Windows – Energia Solar S.A., Barranquilla, Colombia and E.S. Windows, LLC, Miami, Florida, U.S.A., dated 10/20/10, signed by Carla Garcia Torrente and by Andres Chamorro, respectively.
(Submitted under NOA No. 12-0308.39)
3. Laboratory compliance letter for Test Report No. **FTL-5695**, issued by Fenestration Testing Laboratory, Inc., dated 07/20/09, signed and sealed by Julio E. Gonzalez, P.E.
(Submitted under NOA No. 09-1008.03)
4. Proposal issued by Product Control, dated 06/12/08, signed by Jaime D. Gascon, P.E.
(Submitted under NOA No. 09-1008.03)
5. Laboratory compliance letter for Test Reports No. **HETI-05-1450**, dated 06/22/05, **HETI-05-1449**, dated 04/28/05, **HETI-05-1954**, dated 05/02/05, **HETI-05-1955**, dated 05/05/05, **HETI-05-1956**, dated 06/22/05 and **HETI-05-1957**, dated 07/22/05, all issued by Hurricane Engineering and Testing, Inc., all signed and sealed by Iyonne Ghia, P.E.
(Submitted under NOA No. 05-1213.01)
6. Proposal issued by Product Control, dated 02/14/06, signed by Ishaq Chanda, P.E.
(Submitted under NOA No. 05-1213.01)

G. OTHERS

1. Notice of Acceptance No. **20-1208.08**, issued to E.S. Windows, LLC, for their Series "1600" Aluminum Fixed Window – S.M.I., approved on 02/18/21 and expiring on 03/31/26.



Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0211.01
Expiration Date: March 31, 2027
Approval Date: March 05, 2026

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None.

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. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28.
2. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 03/21/24, expiring on 07/08/29.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, and of no financial interest, dated February 9, 2026, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Letter from consultant requesting a 1-year extension to allow time to perform verification test, dated February 9, 2026, issued by Al-Farooq Corporation, signed and sealed by Jala Farooq, P.E.
3. Testing agreement letter dated February 9, 2026, between Blackwater Technical Services, Inc. and E.S. Windows, LLC, issued by Blackwater Technical Services, Inc. and signed by Estefany Camargo, Business Operations Manager.

G. OTHERS

1. Notice of Acceptance No. **23-0717.22**, issued to E.S. Windows, LLC, for their Series “1600” Aluminum Fixed Window – S.M.I., approved on 08/24/26 and expiring on 03/31/26.
2. This is a one-year approval, subjected to successful verification test, the final approval will be issued for a total of 5 years.



Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0211.01
Expiration Date: March 31, 2027
Approval Date: March 05, 2026

SERIES-1600 ALUMINUM FIXED WINDOW

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

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/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 BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

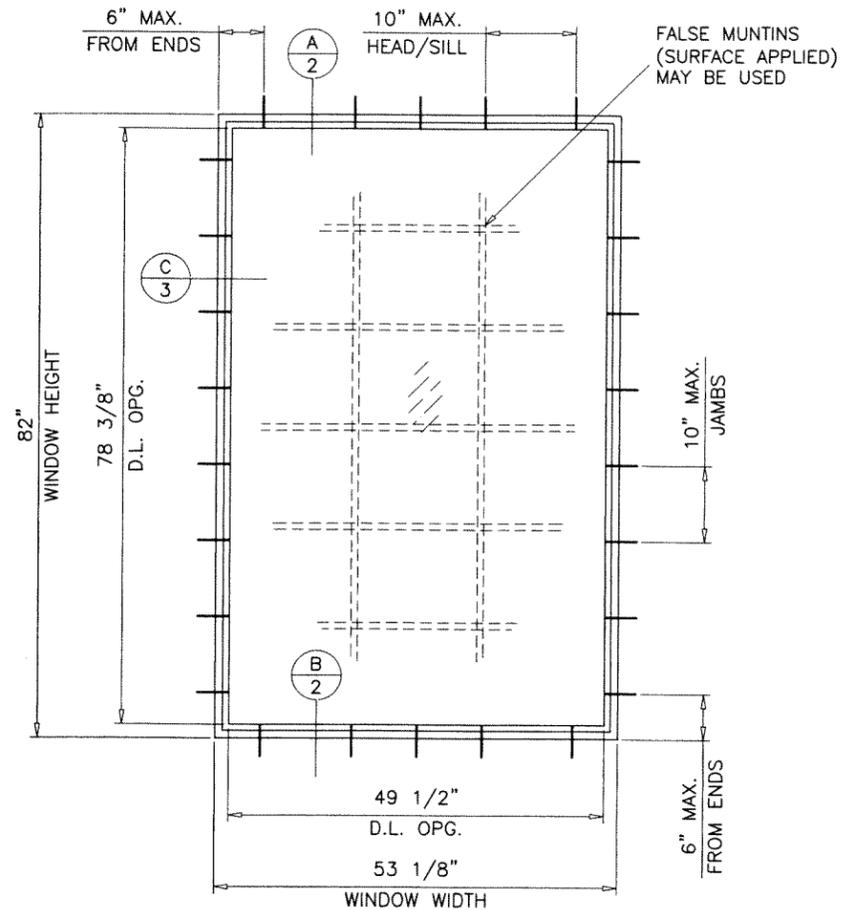
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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 2020/2023 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.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



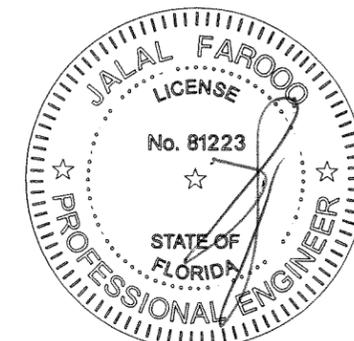
TYPICAL ELEVATION
TESTED UNIT

DAYLITE OPENINGS:
D.L.O. HEIGHT = WINDOW HEIGHT - 3.625"
D.L.O. WIDTH = WINDOW WIDTH - 3.625"

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. **26-0211.01**
Expiration Date: **05/31/2027**
By: *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **23-0717.22** JUL 07 2023
Expiration Date: **03/31/2026**
By: *Manuel Perez*
Miami-Dade Product Control



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W05-46ESW

SERIES-1600 ALUMINUM FIXED WINDOW (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	description
G	12.23.15	UPDATED TO RER REOMTS.
H	10.09.17	UPDATED TO 2017 FBC
I	11.05.20	UPDATED TO 2020 FBC
J	07.06.23	UPDATED TO 2023 FBC

date: 09-09-05
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

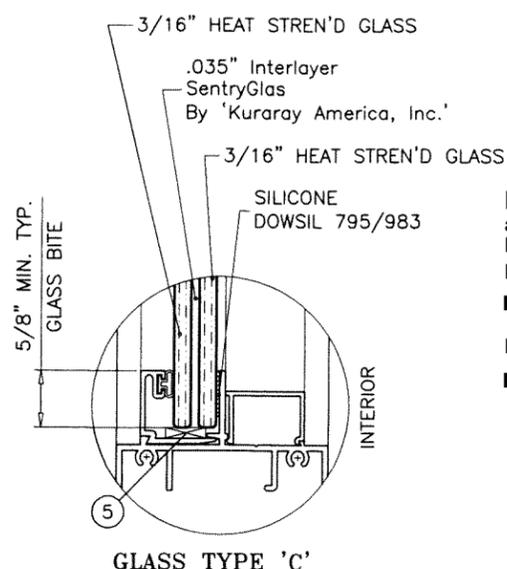
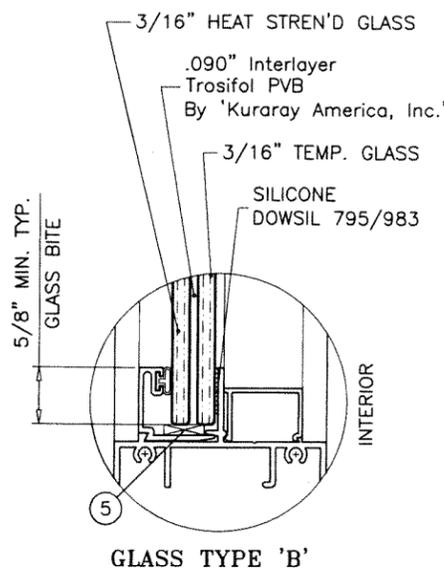
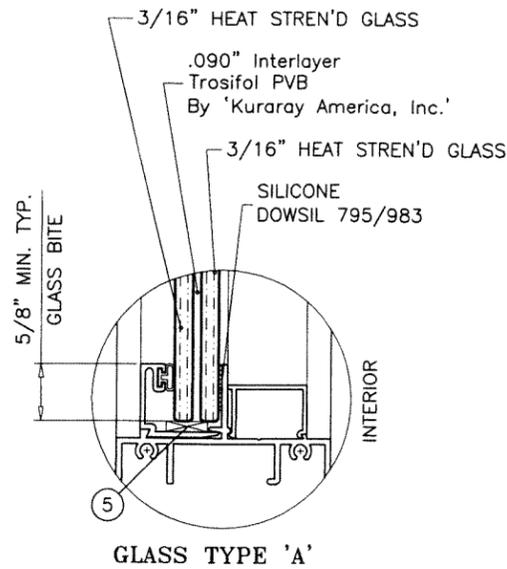
drawing no.
W05-46
sheet 1 of 5

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
18"	36"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0	100.0	140.0
30"		90.0	140.0	100.0	140.0	100.0	140.0
36"		90.0	132.8	100.0	140.0	100.0	140.0
42"		90.0	132.8	100.0	140.0	100.0	140.0
48"		90.0	132.8	100.0	140.0	100.0	140.0
54"		90.0	127.9	100.0	140.0	100.0	140.0
60"		90.0	121.9	100.0	140.0	100.0	140.0
18"	48"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0	100.0	140.0
30"		90.0	140.0	100.0	140.0	100.0	140.0
36"		90.0	132.8	100.0	140.0	100.0	140.0
42"		90.0	113.8	100.0	126.5	88.1	123.3
48"		90.0	99.6	100.0	110.7	77.1	107.9
54"		90.0	99.6	100.0	110.7	77.1	107.9
60"		90.0	90.0	90.0	90.0	90.0	90.0
18"	60"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0	100.0	140.0
30"		90.0	136.5	100.0	140.0	100.0	140.0
36"		90.0	121.9	100.0	140.0	100.0	140.0
42"		90.0	112.5	100.0	126.5	88.1	123.3
48"		90.0	90.0	90.0	90.0	90.0	90.0
54"		88.5	88.5	90.0	90.0	88.5	88.5
60"		79.7	79.7	88.5	88.5	79.7	79.7
18"	72"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0	100.0	140.0
30"		90.0	129.3	100.0	140.0	100.0	140.0
36"		90.0	113.7	100.0	133.0	100.0	140.0
42"		90.0	90.0	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0	90.0	90.0
54"		88.5	88.5	90.0	90.0	88.5	88.5
60"		-	-	88.5	88.5	79.7	79.7

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
18"	84"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0	100.0	140.0
30"		90.0	124.6	100.0	140.0	100.0	140.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0	90.0
48"		-	-	90.0	90.0	90.0	90.0
18"	90"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0	100.0	140.0
30"		90.0	122.8	100.0	140.0	100.0	140.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0	90.0
48"		-	-	90.0	90.0	90.0	90.0
18"	96"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0	100.0	140.0
30"		90.0	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		-	-	90.0	90.0	90.0	90.0
48"		-	-	90.0	90.0	90.0	90.0
18"	108"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	140.0	100.0	140.0	100.0	140.0
30"		90.0	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		-	-	90.0	90.0	90.0	90.0
48"		-	-	90.0	90.0	90.0	90.0
18"	120"	90.0	140.0	100.0	140.0	100.0	140.0
24"		90.0	90.0	90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0	90.0	90.0
36"		-	-	90.0	90.0	90.0	90.0

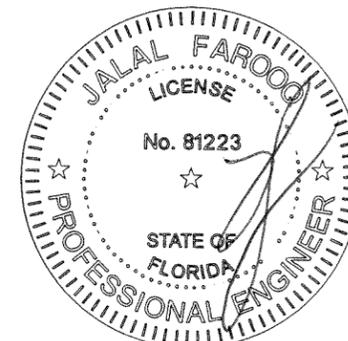
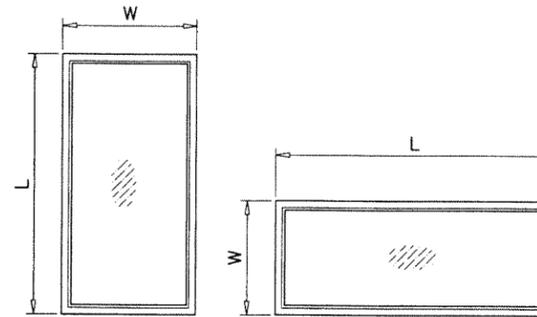
DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	90.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0	100.0	140.0
37"		90.0	140.0	100.0	140.0	100.0	140.0
48"		90.0	140.0	100.0	140.0	100.0	140.0
53-1/8"		90.0	140.0	100.0	140.0	100.0	140.0
19-1/8"		38-3/8"	90.0	140.0	100.0	140.0	100.0
26-1/2"	90.0		140.0	100.0	140.0	100.0	140.0
37"	90.0		129.2	100.0	140.0	100.0	140.0
48"	90.0		124.6	100.0	138.4	96.4	135.0
53-1/8"	90.0	124.6	100.0	138.4	96.4	135.0	
19-1/8"	50-5/8"	90.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0	100.0	140.0
37"		90.0	129.2	100.0	140.0	100.0	140.0
48"		90.0	99.6	100.0	110.7	77.1	107.9
53-1/8"	90.0	94.4	100.0	104.9	73.1	102.3	
19-1/8"	58"	90.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0	100.0	140.0
37"		90.0	121.9	100.0	140.0	100.0	140.0
48"		90.0	90.0	90.0	90.0	90.0	90.0
53-1/8"	90.0	90.0	90.0	90.0	90.0	90.0	
19-1/8"	63"	90.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0	100.0	140.0
37"		90.0	117.5	100.0	137.4	100.0	140.0
48"		90.0	90.0	90.0	90.0	90.0	90.0
53-1/8"	90.0	90.0	90.0	90.0	90.0	90.0	
19-1/8"	74-1/4"	90.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		90.0	140.0	100.0	140.0	100.0	140.0
37"		90.0	110.5	100.0	129.3	100.0	140.0
48"		90.0	90.0	90.0	90.0	90.0	90.0
53-1/8"	90.0	90.0	90.0	90.0	90.0	90.0	

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



PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **26-0211.01**
Expiration Date: **05/31/2027**
By: *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **23-0717.22** JUL 07 2023
Expiration Date: **03/31/2026**
By: *Manuel Perez*
Miami-Dade Product Control



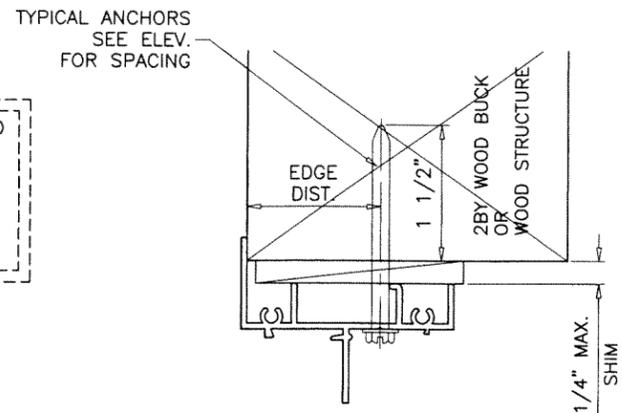
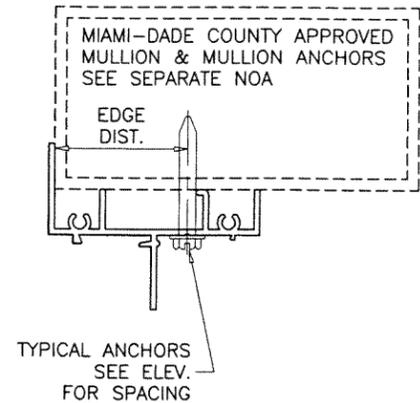
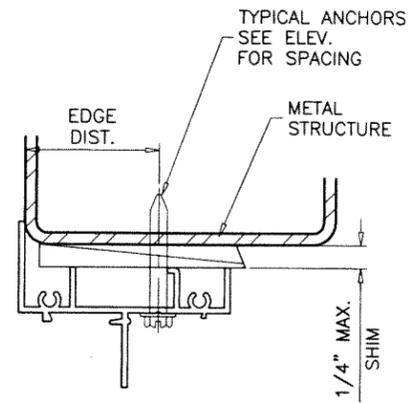
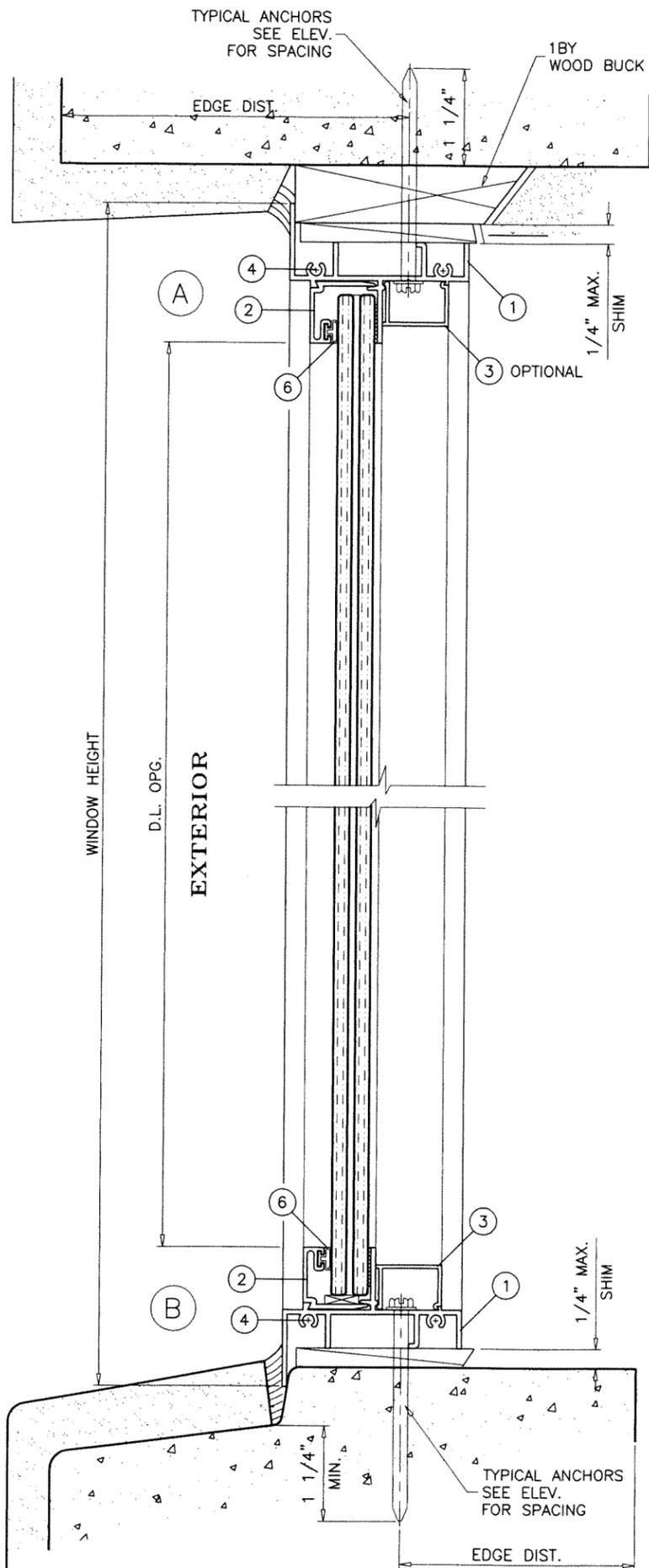
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL \ W05-46ESW

SERIES-1600 ALUMINUM FIXED WINDOW (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	description
G	12.23.15	UPDATED TO RER REQMTS.
H	10.09.17	UPDATED TO 2017 FBC
I	11.05.20	UPDATED TO 2020 FBC
J	07.06.23	NO CHANGE THIS SHEET

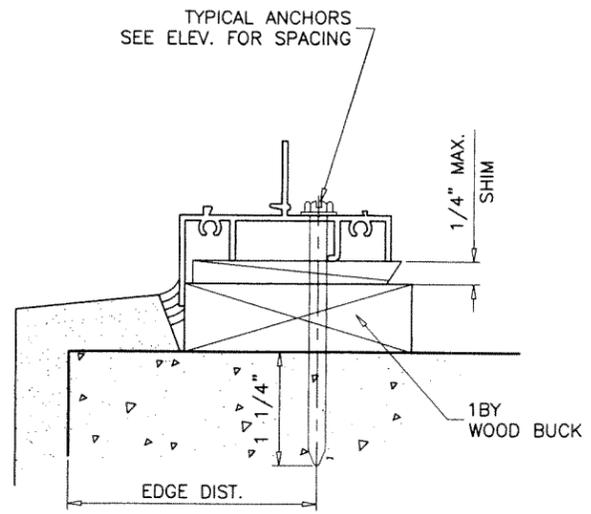
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dr. by: TARIQ
chk. by:

drawing no.
W05-46
sheet 2 of 5



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

SEALANT:
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUM COLOR SILICONE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO BLOCKS (JAMBS)

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

#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS (NO SHIM SPACE)
 (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 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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PRODUCT REVISED
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 Expiration Date: **03/31/2026**
 By: *Manuel Perez*
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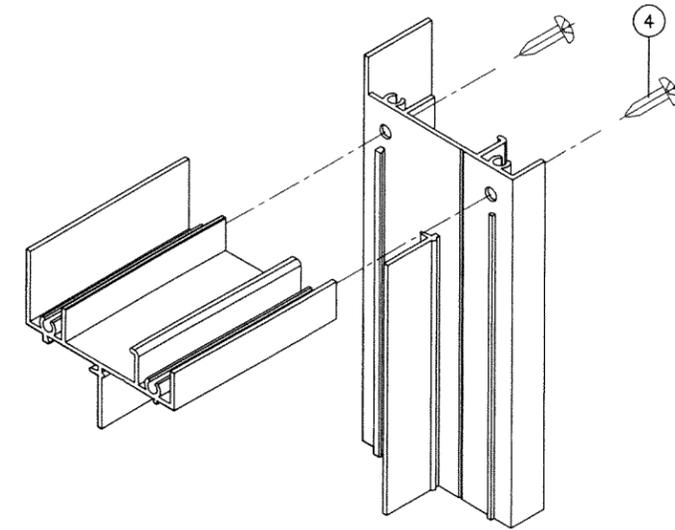
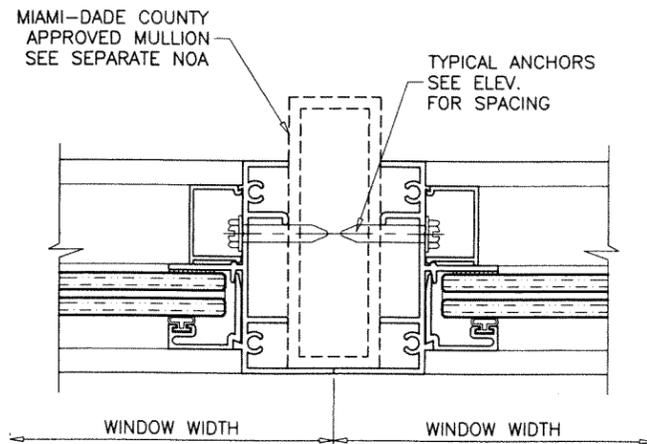
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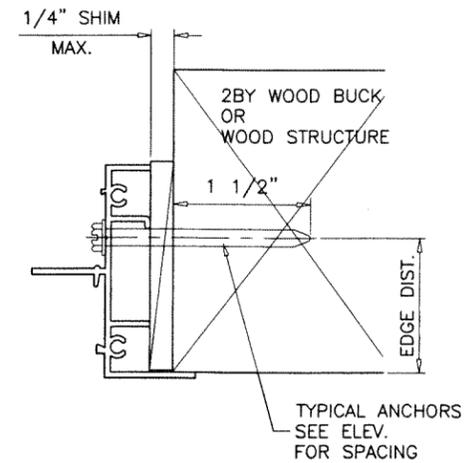
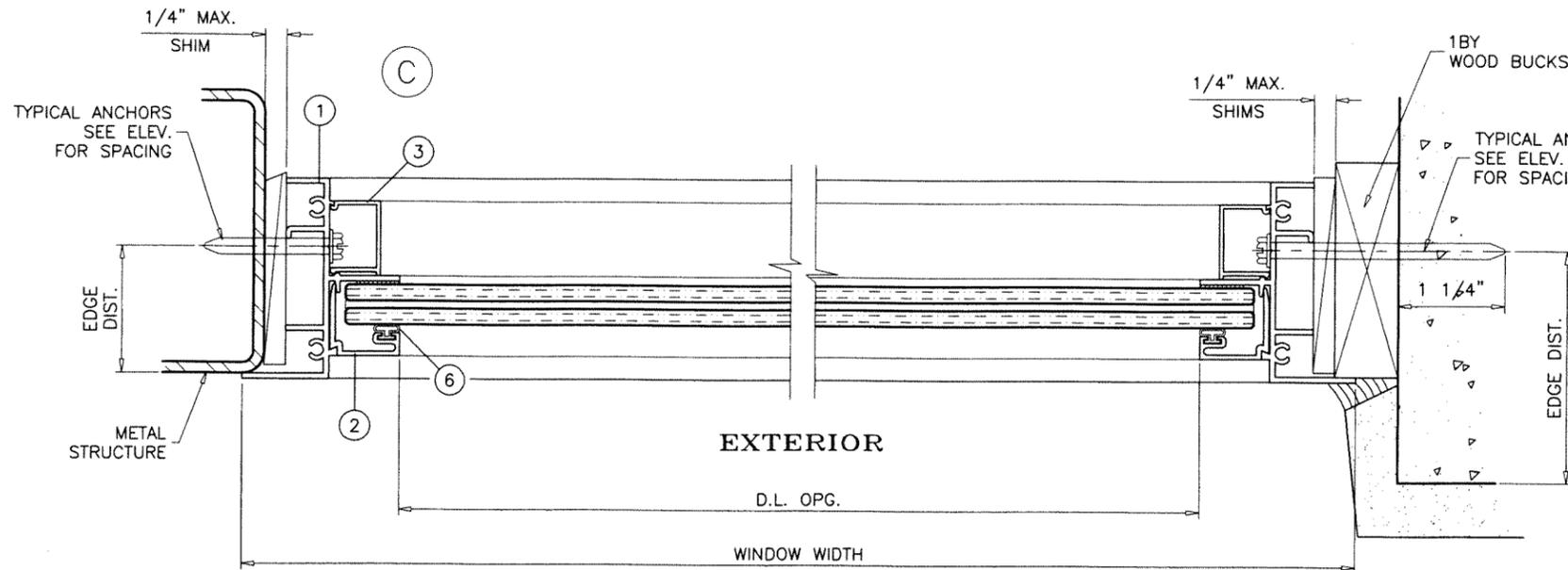
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W05-46
 sheet 3 of 5

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1501	4	WINDOW FRAME	6063-T6	-
2	ES1106	4	GLAZING STOP	6063-T5	-
3	ES1502	4	FRAME COVER (OPTIONAL)	6063-T5	-
4	#8 X 1"	2/ CORNER	ASSEMBLY SCREWS	CRS	PH SMS
5	-	2/ LITE	SETTING BLOCKS, 7/16" X 3/16" X 3-1/2" LONG	EPDM	DUROMETER 75±5 SHORE A
6	27-425	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 60±5 SHORE A
7	ES1505	-	FLUSH FRAME ADAPTER	6063-T5	OPTIONAL

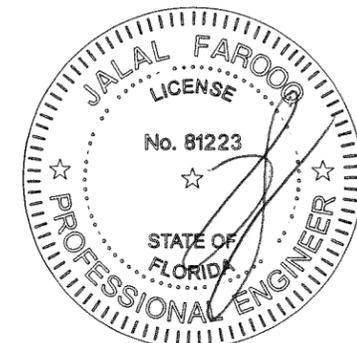


TYPICAL CORNER DETAIL



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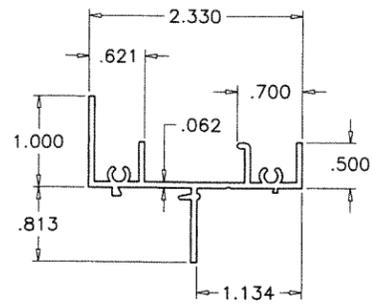
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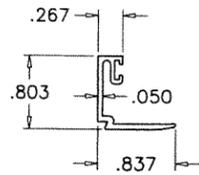
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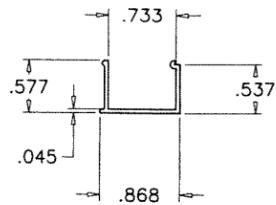
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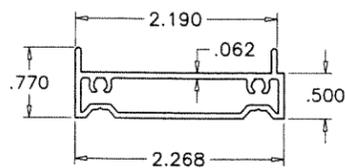
1 FRAME



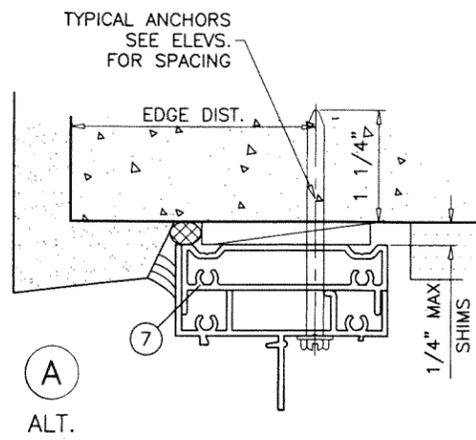
2 GLAZING STOP



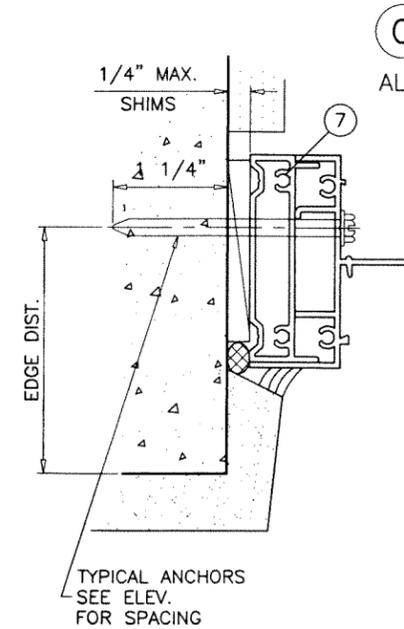
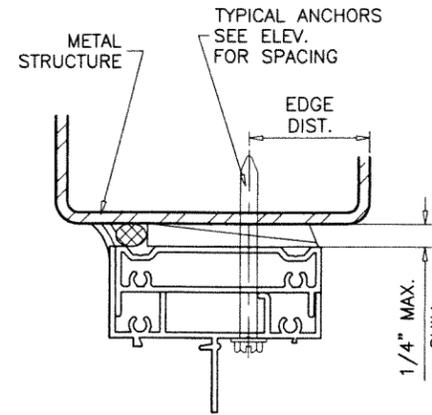
3 FRAME COVER (OPTIONAL)



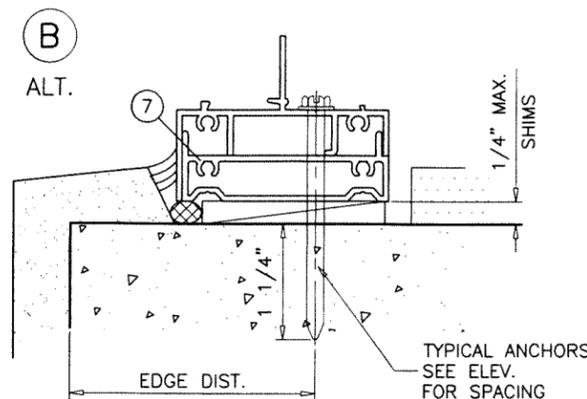
7 FLUSH FRAME ADAPTER



A ALT.



C ALT.



B ALT.

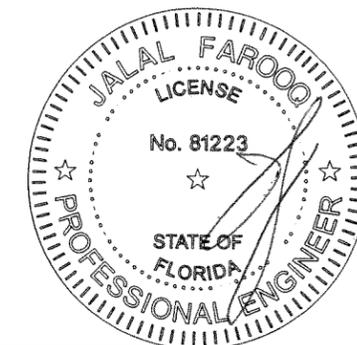
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JUL 07 2023



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

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