



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/economy

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 "9500" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W10-25**, titled "Series 9500 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 9 of 9, dated 04/20/10, with revision **G** dated 10/16/25, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, 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, **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 **revises and renews** NOA No. **24-1107.02** 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 **Manuel Perez, P.E.**




1/9/26

NOA No. 25-1024.01
Expiration Date: October 28, 2030
Approval Date: November 26, 2025
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. 09-0623.01)
2. Drawing No. **W10-25**, titled "Series 9500 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 9 of 9, dated 04/20/10, with revision **F** dated 09/12/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0928.21)

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, both prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-6129**, dated 03/10/10, and **FTL-5991**, dated 10/02/09, both signed and sealed by Jorge A. Causo, P.E.
(Submitted under NOA No. 09-0623.01)
2. 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, FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5546**, dated 01/09/09, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 09-0623.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), dated 09/29/17, 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. 21-0127.07)
2. Glazing complies with **ASTM E1300-09**


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-1024.01
Expiration Date: October 28, 2030
Approval Date: November 26, 2025

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

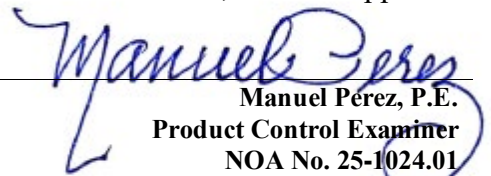
1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 08/31/23, expiring on 07/04/28.
2. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** for their **"Trosifol® Ultraclear, Clear 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 November 6, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 24-1107.02)
2. Letter from consultant requesting a 1-year extension to allow time to perform verification test, dated 11/05/24 issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 24-1107.02)
3. Testing agreement letter, dated 11/05/24 between IFET, Inc. and E.S. Windows, LLC, issued by IFET, Inc. and signed by Luis Macias, CEO, IFET, Inc.
(Submitted under NOA No. 24-1107.02)
4. Laboratory compliance letter for Test Reports No. **FTL-6129**, dated 03/10/10, and **FTL-5991**, dated 10/02/09, both issued by Fenestration Testing Laboratory, Inc., both signed and sealed by Jorge A. Causo, P.E.
(Submitted under NOA No. 09-0623.01)
5. Laboratory compliance letter for Test Report No. **FTL-5546**, dated 01/09/09, issued by Fenestration Testing Laboratory, Inc., signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 09-0623.01)

G. OTHERS

1. Notice of Acceptance No. **23-0928.21**, issued to E.S. Windows, LLC, for their Series "9500" Aluminum Fixed Window – L.M.I., approved on 11/09/23 and expiring on 10/28/24.
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. 25-1024.01
Expiration Date: October 28, 2030
Approval Date: November 26, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W10-25**, titled “Series 9500 Aluminum Fixed Wdw. (L.M.I.)”, sheets 1 through 9 of 9, dated 04/20/10, with revision **G** dated 10/16/25, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series ES-9500 aluminum fixed window, prepared by IFET, Inc., Test Report No. **TR-IFET-24-0067**, dated 10/14/25, signed and sealed by Arshad Viqar, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 8th Edition (2023), dated 10/15/25, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

D. QUALITY ASSURANCE

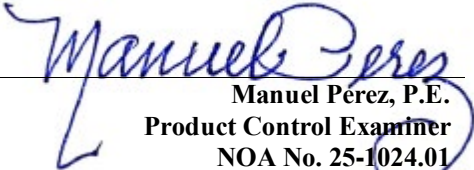
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

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 October 15, 2025, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Proposal No. **24-0786** issued by the Product Control Section, dated July 18, 2024, signed by Manuel Perez, P.E.


Manuel Pérez, P.E.
Product Control Examiner
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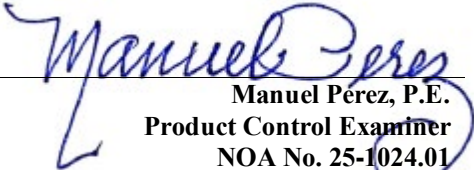
E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

G. OTHERS

1. Notice of Acceptance No. **24-1107.02**, issued to E.S. Windows, LLC, for their Series “9500” Aluminum Fixed Window – L.M.I., approved on 11/21/24 and expiring on 10/28/25.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-1024.01
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THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

SERIES 9500 ALUMINUM FIXED WINDOWS

DESIGN LOAD CAPACITY FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.
SEE GLASS LOAD CAPACITY CHART FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
SEE ANCHOR LOAD CAPACITY CHART FOR NUMBER OF ANCHORS REQUIRED AT EACH CORNER.
LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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.

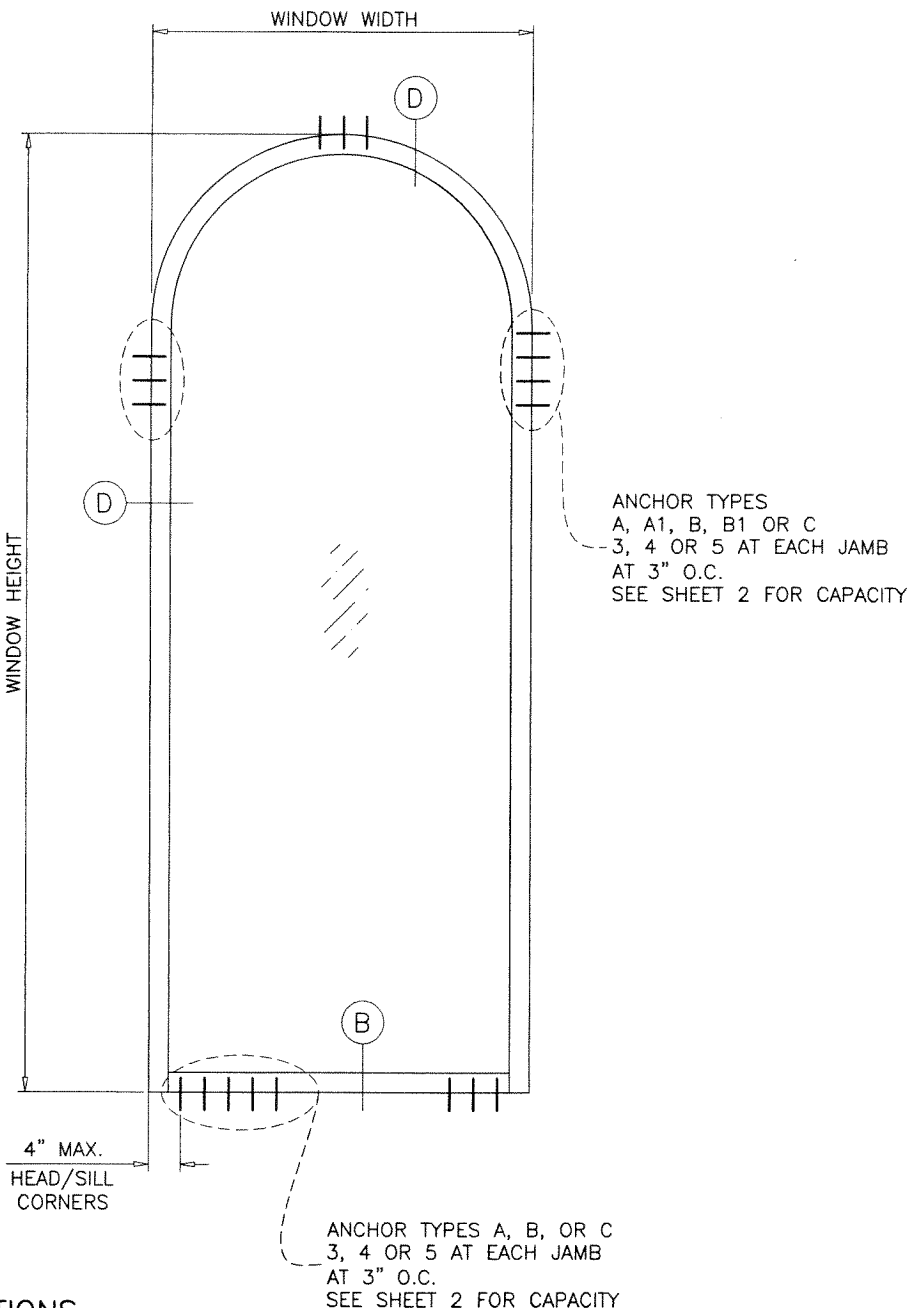
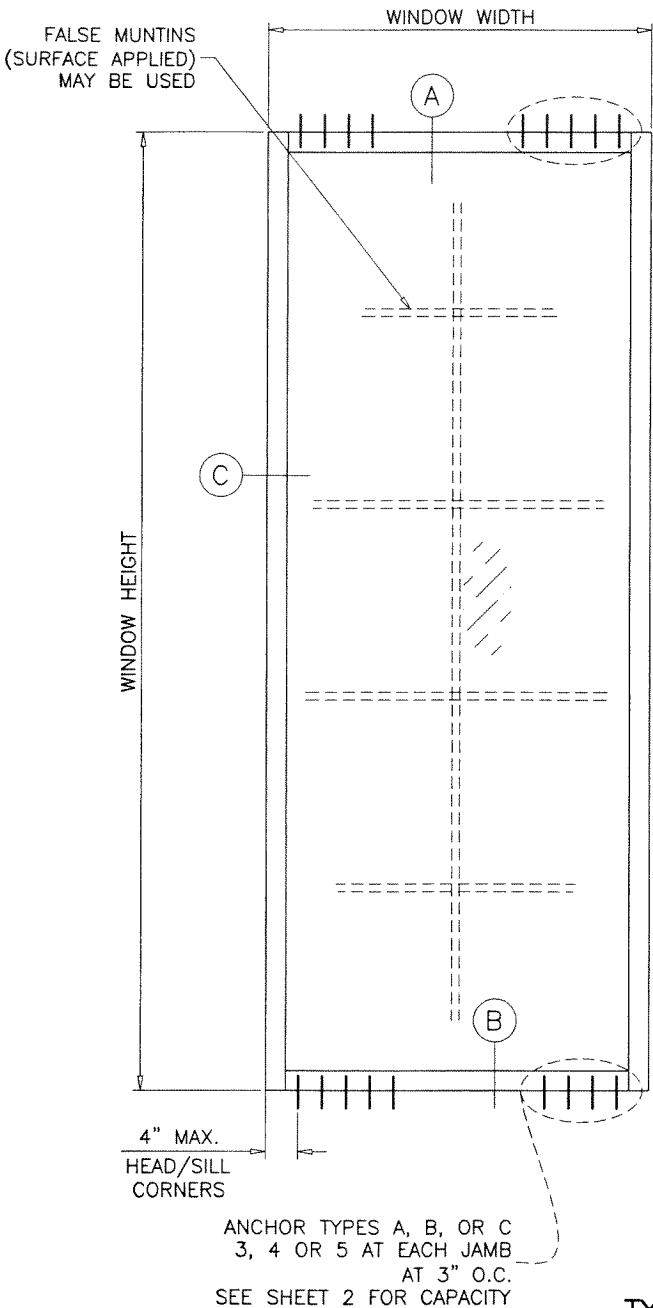
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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 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)'.

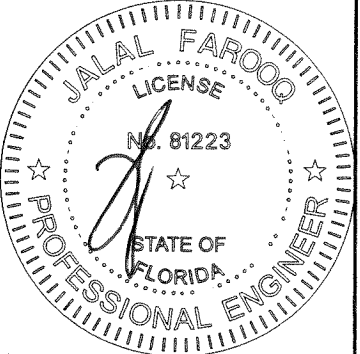


TYPICAL ELEVATIONS

DAYLITE OPENINGS:
D.L.O. HEIGHT = WINDOW HEIGHT - 5.0"
D.L.O. WIDTH = WINDOW WIDTH - 5.0"

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-1024.01**
Expiration Date: **10/28/2030**
By: *Manuel Perez*
Miami-Dade Product Control



WINDOWS WITH GLASS TYPES 'A' & 'B' COMPLIES
WITH REQUIREMENTS OF ANSI Z97.1.

OCT 21 2025

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W10-25ES

SERIES 9500 ALUMINUM FIXED WDW. (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
C	08.01.14		UPDATED TO 2014 FBC
D	01.25.18		UPDATED TO 2017 FBC
E	01.19.21		UPDATED TO 2020 FBC
F	09.12.23		UPDATED TO 2023 FBC
G	10.16.25		NO CHANGE THIS SHEET

date: 04-20-10

scale:

dr. by: TARIQ

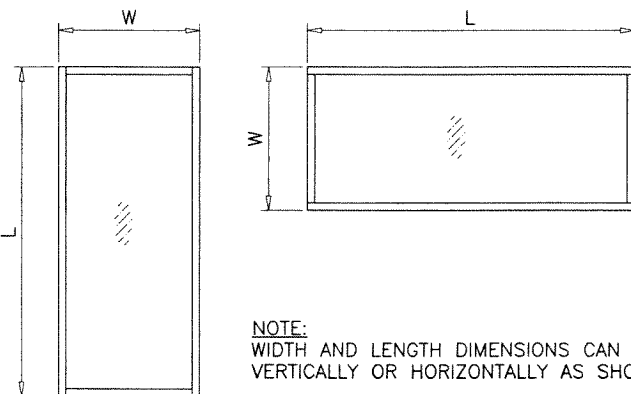
chk. by:

drawing no.

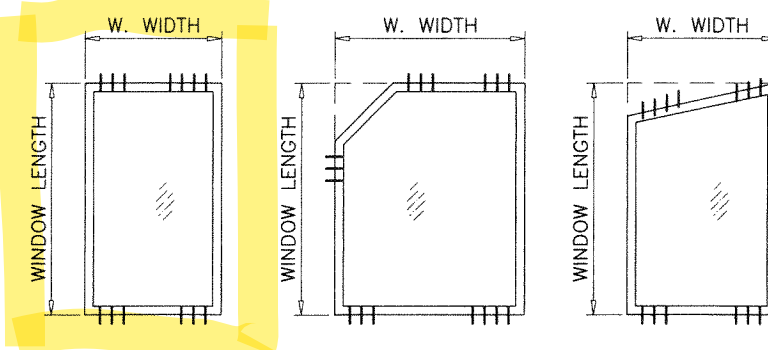
W10-25

sheet 1 of 9

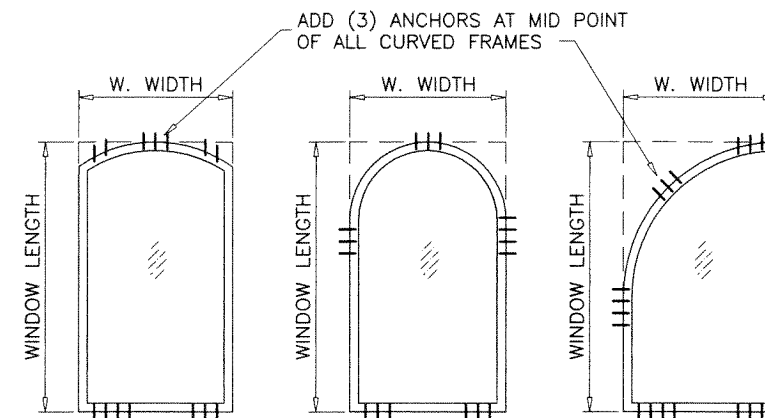
GLASS LOAD CAPACITY - PSF				
WINDOW DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPES 'A1' & 'B1'
WIDTH (W)	LENGTH (L)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
30"	90"	65.0	120.0	90.0
36"		65.0	120.0	90.0
42"		65.0	120.0	90.0
48"		65.0	120.0	90.0
54"		65.0	120.0	90.0
60"		65.0	120.0	90.0
30"	96"	65.0	120.0	90.0
36"		65.0	120.0	90.0
42"		65.0	120.0	90.0
48"		65.0	120.0	90.0
54"		65.0	120.0	90.0
60"		65.0	120.0	90.0
30"	102"	65.0	120.0	90.0
36"		65.0	120.0	90.0
42"		65.0	120.0	90.0
48"		65.0	120.0	90.0
54"		65.0	120.0	90.0
60"		65.0	120.0	90.0
30"	108"	65.0	120.0	90.0
36"		65.0	120.0	90.0
42"		65.0	120.0	90.0
48"		65.0	120.0	90.0
30"	114"	65.0	120.0	90.0
36"		65.0	120.0	90.0
42"		65.0	120.0	90.0
48"		65.0	120.0	90.0
30"	120"	65.0	120.0	90.0
36"		65.0	120.0	90.0
42"		65.0	120.0	90.0
48"		65.0	120.0	90.0



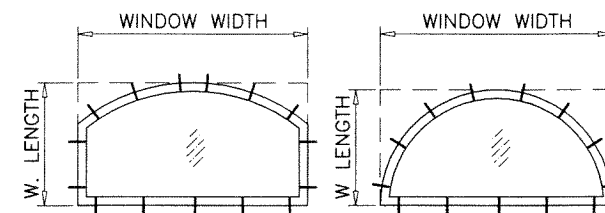
NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



SEE CHART AT RIGHT FOR NUMBER OF ANCHORS REQUIRED
AT EACH CORNER OF THESE SHAPES.



SEE CHART AT RIGHT FOR NUMBER OF ANCHORS REQUIRED
AT EACH CIRCULAR OR SQUARE CORNER JOINT.
USE (3) ADDL. ANCHORS AT MID POINT OF CIRCULAR FRAMES.



ALTERNATE ANCHORING AT CIRCULAR SHAPES
USE ANCHORS AT 4" FROM EACH END AND 16" O.C. MAX.

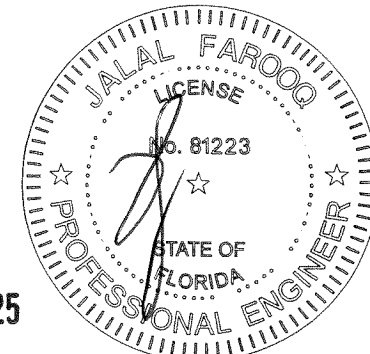
ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

NOTE:
SEE GLASS LOAD CAPACITY CHART FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.
SEE ANCHOR LOAD CAPACITY CHART FOR NUMBER OF ANCHORS
REQUIRED AT EACH CORNER.
LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS WILL
APPLY TO ENTIRE SYSTEM.

ANCHORS LOAD CAPACITY - PSF							
WINDOW DIMS.		ANCHOR TYPES 'A', 'B' & 'C'			ANCHOR TYPES 'A1' & 'B1'		
		3 ANCHORS	4 ANCHORS	5 ANCHORS	3 ANCHORS	4 ANCHORS	5 ANCHORS
WIDTH (W)	LENGTH (L)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	90"	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0
42"		115.7	120.0	120.0	106.8	120.0	120.0
48"		101.2	120.0	120.0	94.2	120.0	120.0
54"		90.0	119.9	120.0	84.4	112.5	120.0
60"		81.0	107.9	120.0	76.5	102.0	120.0
30"	96"	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	115.7	120.0	120.0
42"		108.4	120.0	120.0	99.8	120.0	120.0
48"		94.9	120.0	120.0	88.0	117.3	120.0
54"		84.3	112.4	120.0	78.8	105.0	120.0
60"		75.9	101.2	120.0	71.4	95.2	120.0
30"	102"	120.0	120.0	120.0	120.0	120.0	120.0
36"		119.1	120.0	120.0	108.6	120.0	120.0
42"		102.1	120.0	120.0	93.7	120.0	120.0
48"		89.3	119.1	120.0	82.5	110.0	120.0
54"		79.4	105.8	120.0	73.8	98.5	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0
30"	108"	112.4	120.0	120.0	102.3	120.0	120.0
36"		96.4	120.0	120.0	88.3	117.7	120.0
42"		84.3	112.4	120.0	77.7	103.6	120.0
48"		120.0	120.0	120.0	115.4	120.0	120.0
30"	114"	106.5	120.0	120.0	96.8	120.0	120.0
36"		91.3	120.0	120.0	83.4	111.2	120.0
42"		79.9	106.5	120.0	73.4	97.9	120.0
48"		120.0	120.0	120.0	109.5	120.0	120.0
30"	120"	101.2	120.0	120.0	91.8	120.0	120.0
36"		86.7	115.7	120.0	79.1	105.4	120.0
42"		75.9	101.2	120.0	69.6	92.8	116.0
48"		120.0	120.0	120.0	120.0	120.0	120.0

NOTE:
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. **25-1024.01**
Expiration Date: **10/28/2030**
By: *Manuel Perez*
Miami-Dade Product Control



OCT 21 2025

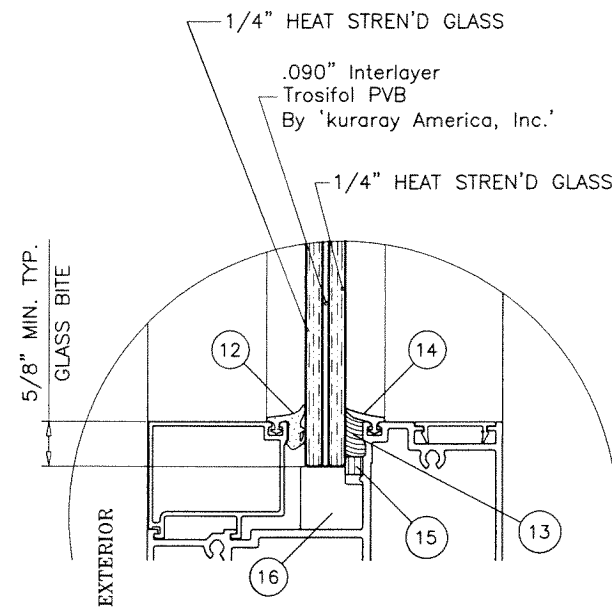
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES 9500 ALUMINUM FIXED WDW. (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

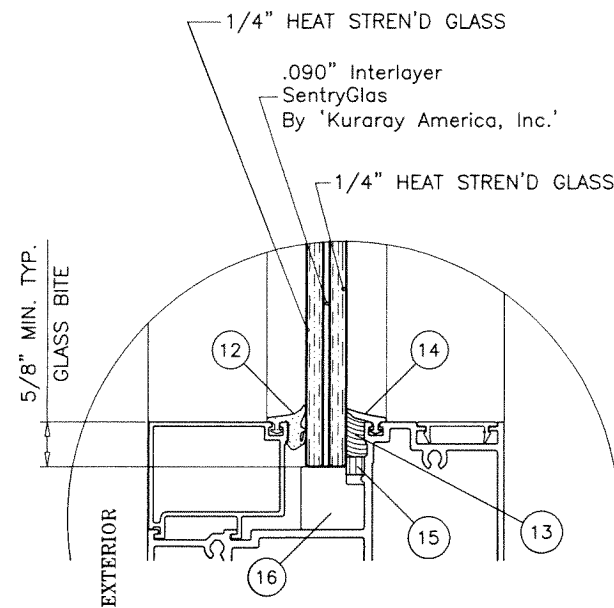
revisions:	no	date	by	description
	C	08.01.14		UPDATED TO 2014 FBC
	D	01.25.18		UPDATED TO 2017 FBC
	E	01.19.21		UPDATED TO 2020 FBC
	F	09.12.23		NO CHANGE THIS SHEET
	G	10.16.25		NO CHANGE THIS SHEET

date: 04-20-10
scale: -
dr. by: TARIQ
chk. by:

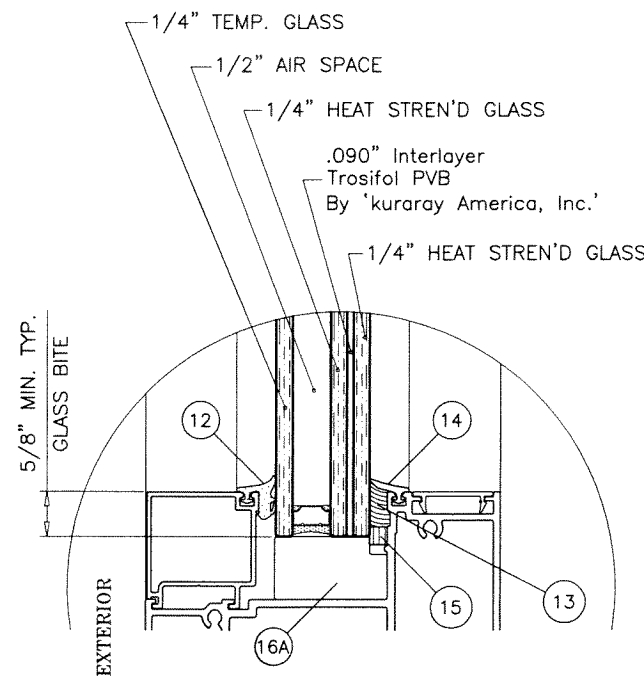
drawing no.
W10-25
sheet 2 of 9



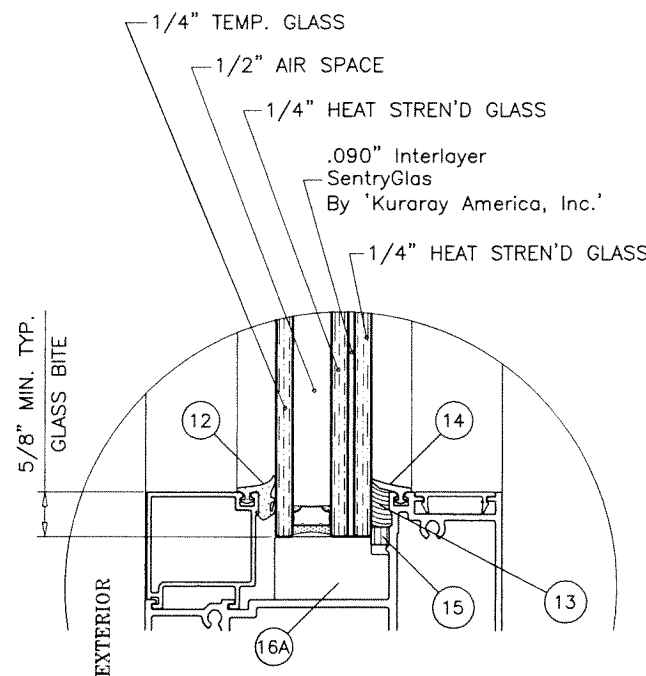
GLASS TYPE 'A'
9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'B'
9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'A1'
1-5/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B1'
1-5/16" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

1/2" AIR SPACE CONSISTING OF:

SPACER:

'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.

PERIMETER SEALANT:

SILICONE
DOWSIL 791
GE 2000

PRODUCT REVISED

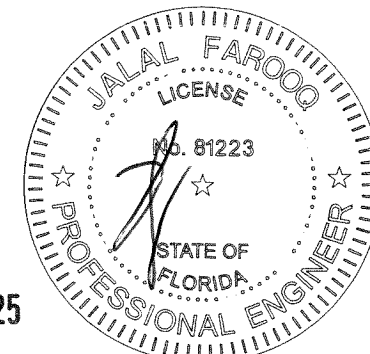
As complying with the Florida
Building Code

NOA-No. **25-1024.01**

Expiration Date: **10/28/2030**

By: *Manuel Perez*

Miami-Dade Product Control



OCT 21 2025

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES 9500 ALUMINUM FIXED WDW. (L.M.I.)

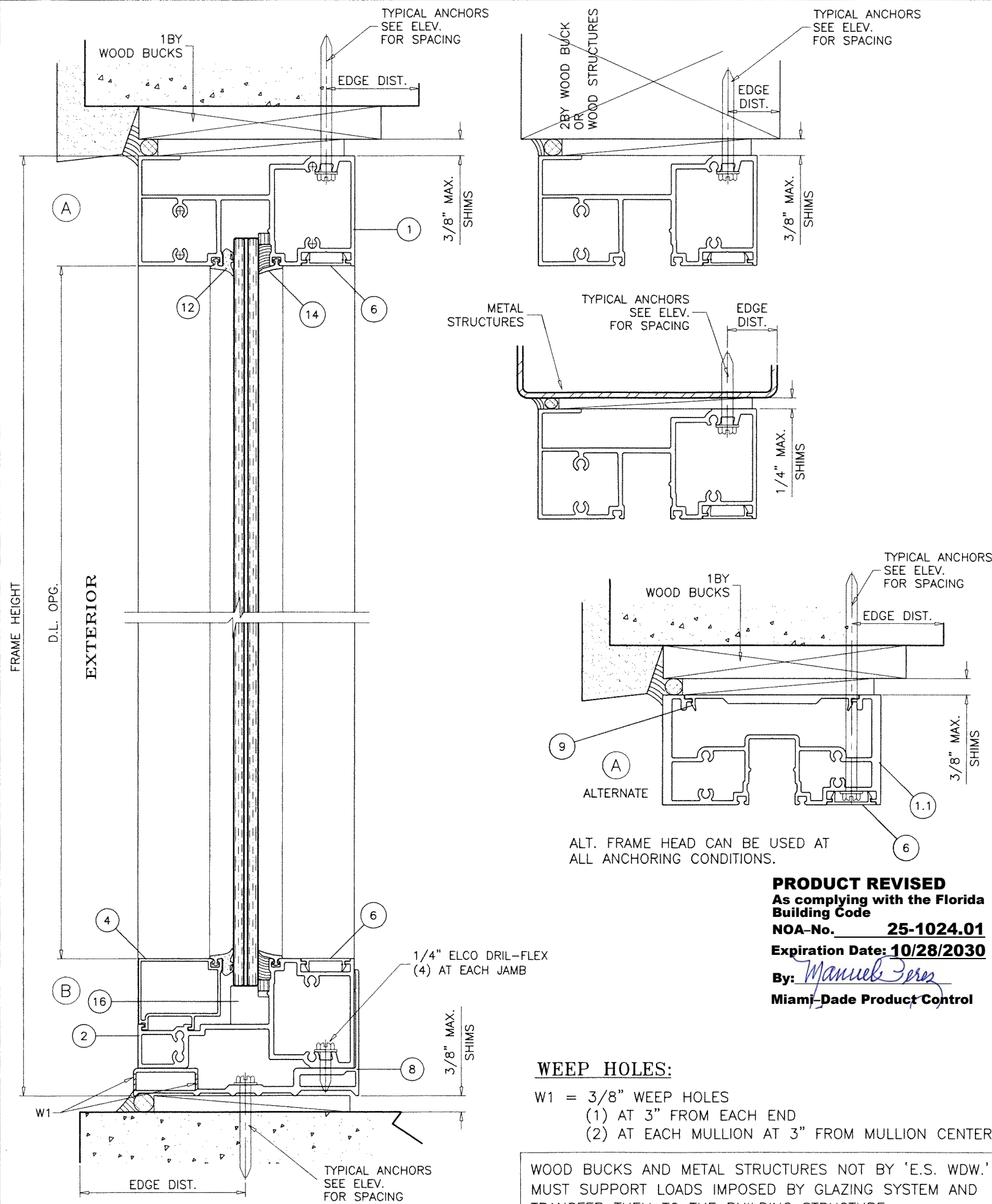
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	description
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G	10.16.25 NO CHANGE THIS SHEET

date:	04-20-10
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.
W10-25
sheet **3** of **9**

COMP-ANL\W10-25ES



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WEEP HOLES:
W1 = 3/8" WEEP HOLES
(1) AT 3" FROM EACH END
(2) AT EACH MULLION AT 3" FROM MULLION CENTERLINE.

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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
2" MIN. EMBED INTO CONCRETE
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES

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

TYPE 'A1' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO BLOCKS
DIRECTLY INTO BLOCKS
2" MIN. EMBED INTO BLOCK

ANCHOR EDGE DISTANCES

INTO BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY WOOD BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN. (1/4" ANCHORS)
INTO WOOD STRUCTURE = 1-1/4" MIN. (5/16" ANCHORS)

TYPE 'B1' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO BLOCKS
DIRECTLY INTO BLOCKS
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCK

ANCHOR EDGE DISTANCES

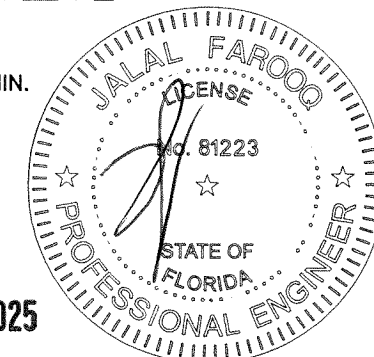
INTO FILLED BLOCK = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'C' - 1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
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)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" 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.



LAMINATED GLASS

OCT 21 2025

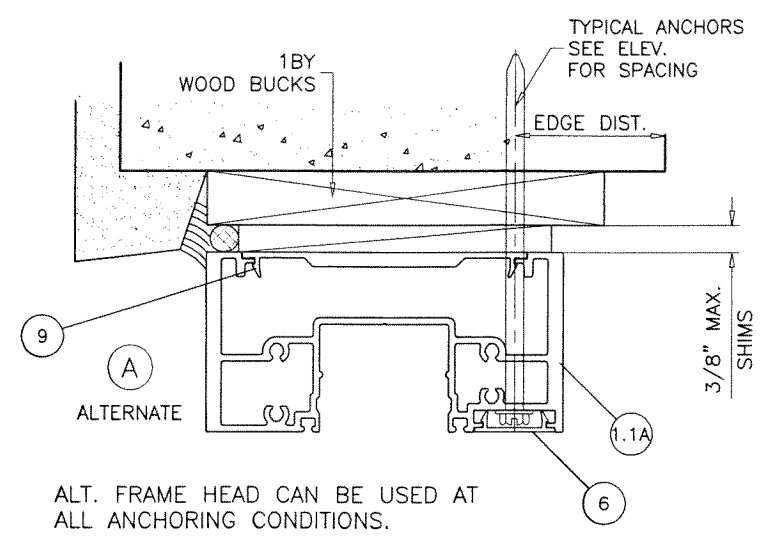
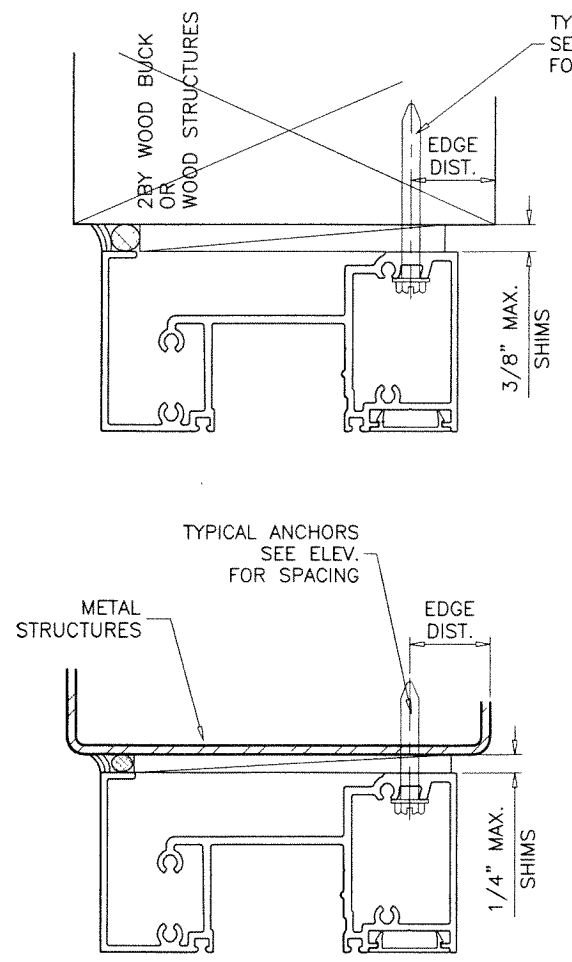
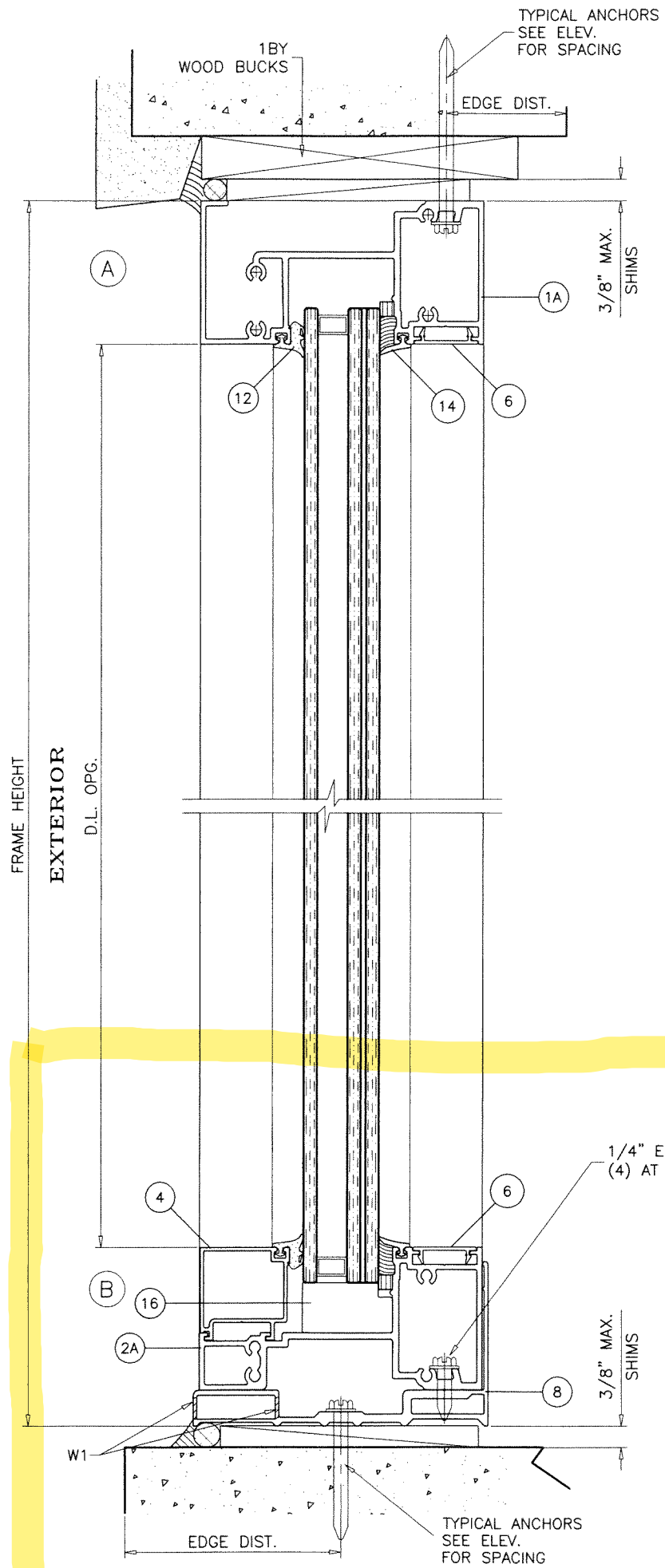
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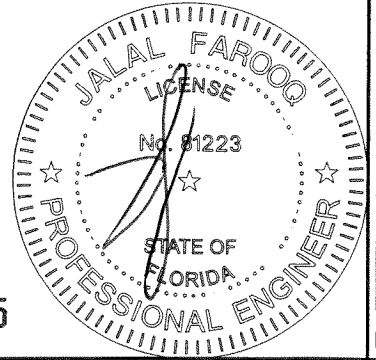
drawing no.
W10-25
sheet 4 of 9



ALT. FRAME HEAD CAN BE USED AT ALL ANCHORING CONDITIONS.

INSUL. LAM. GLASS

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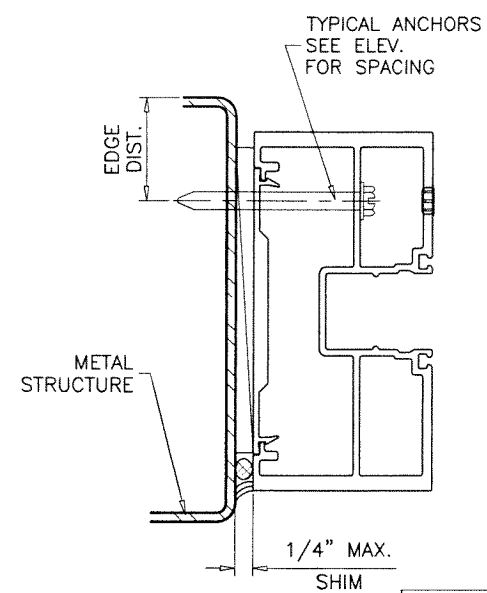
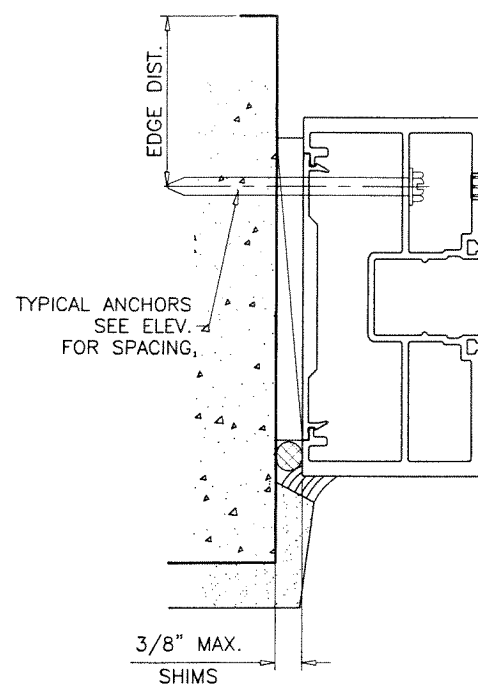
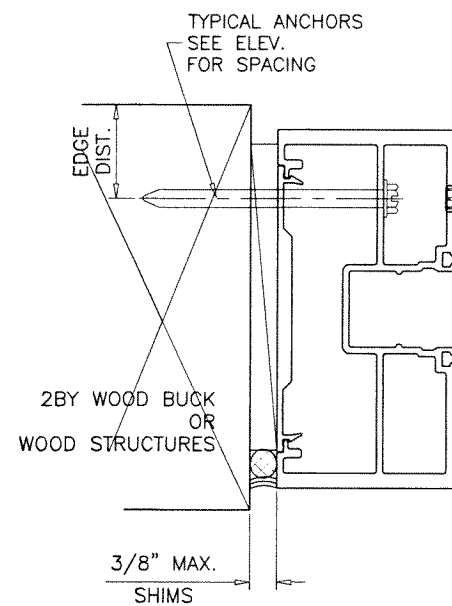
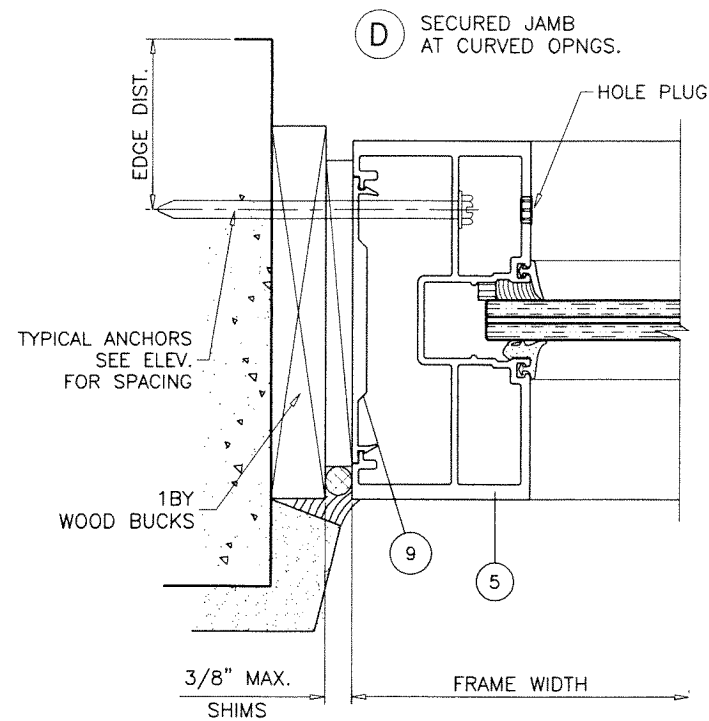
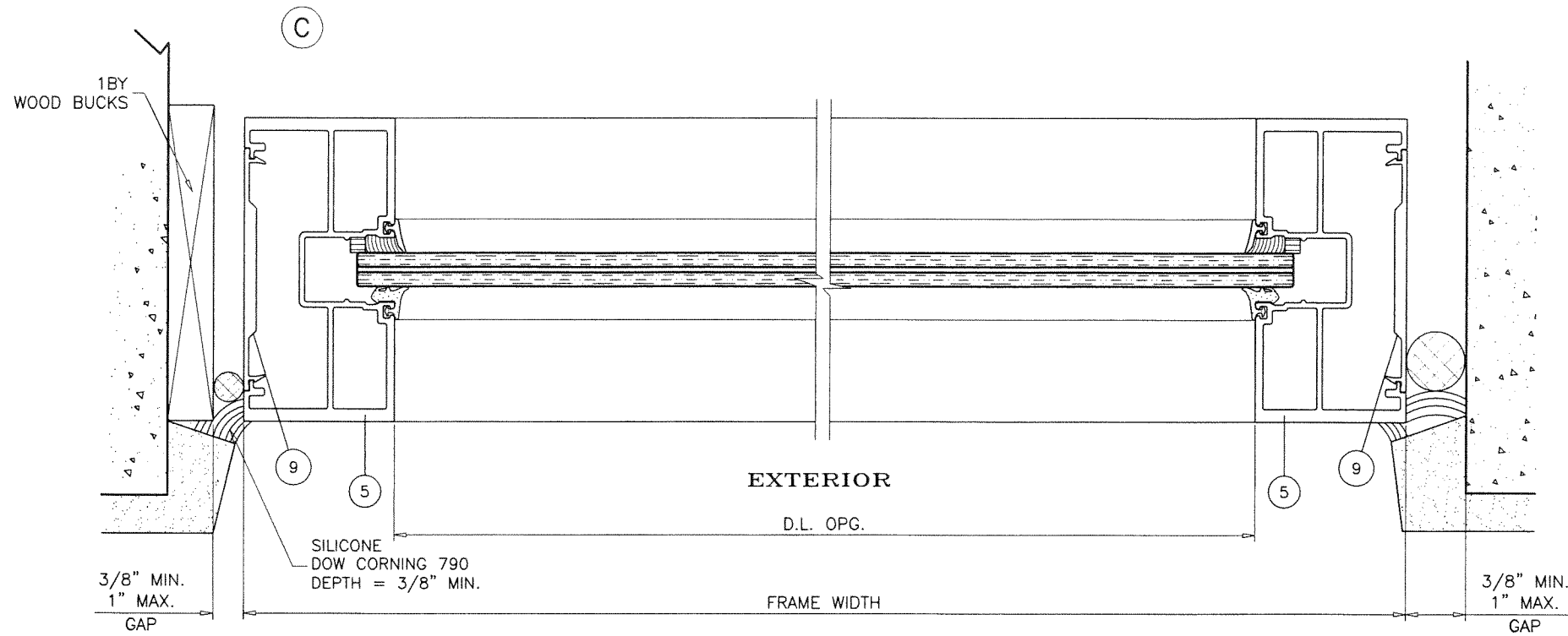
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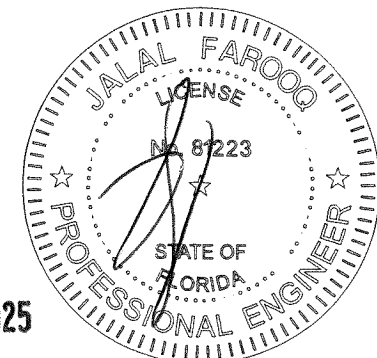
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 chk. by:

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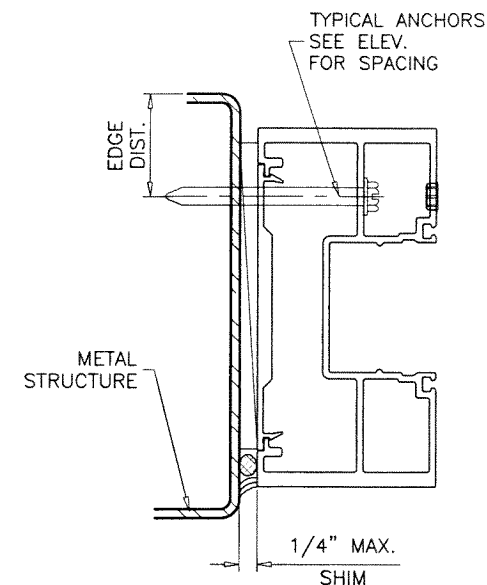
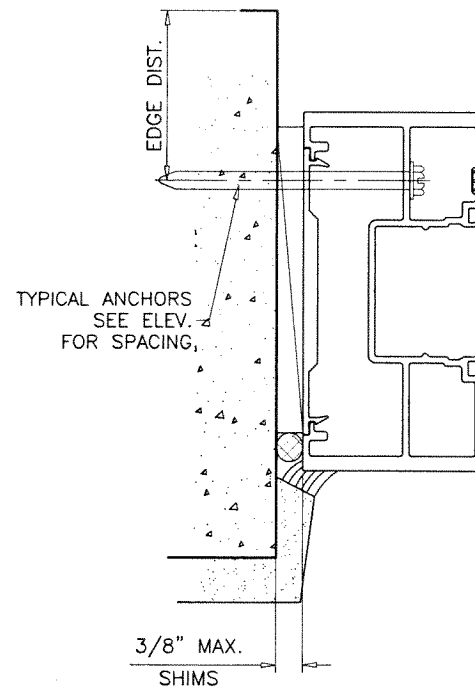
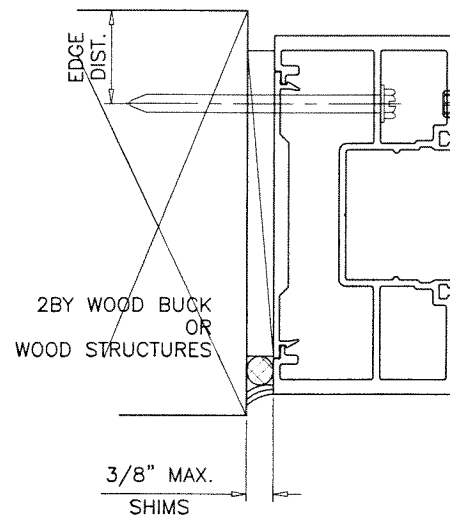
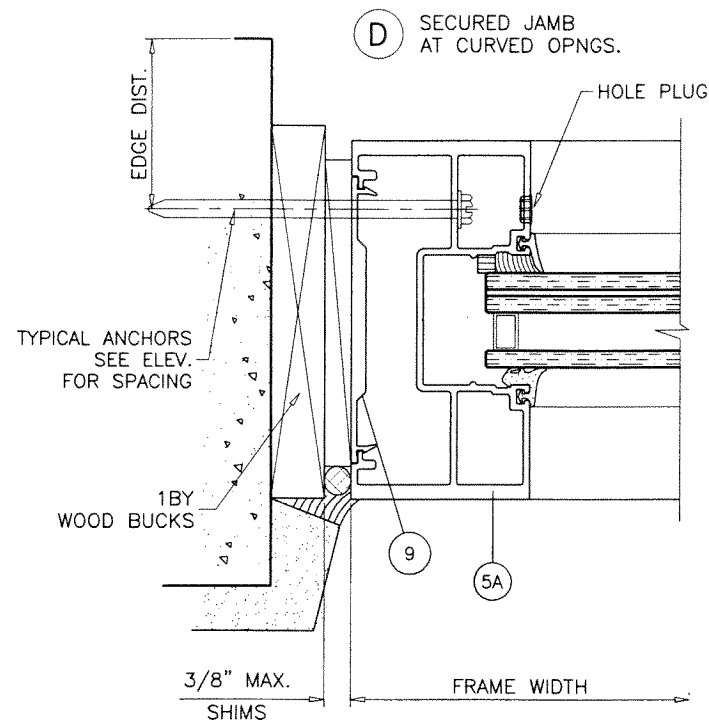
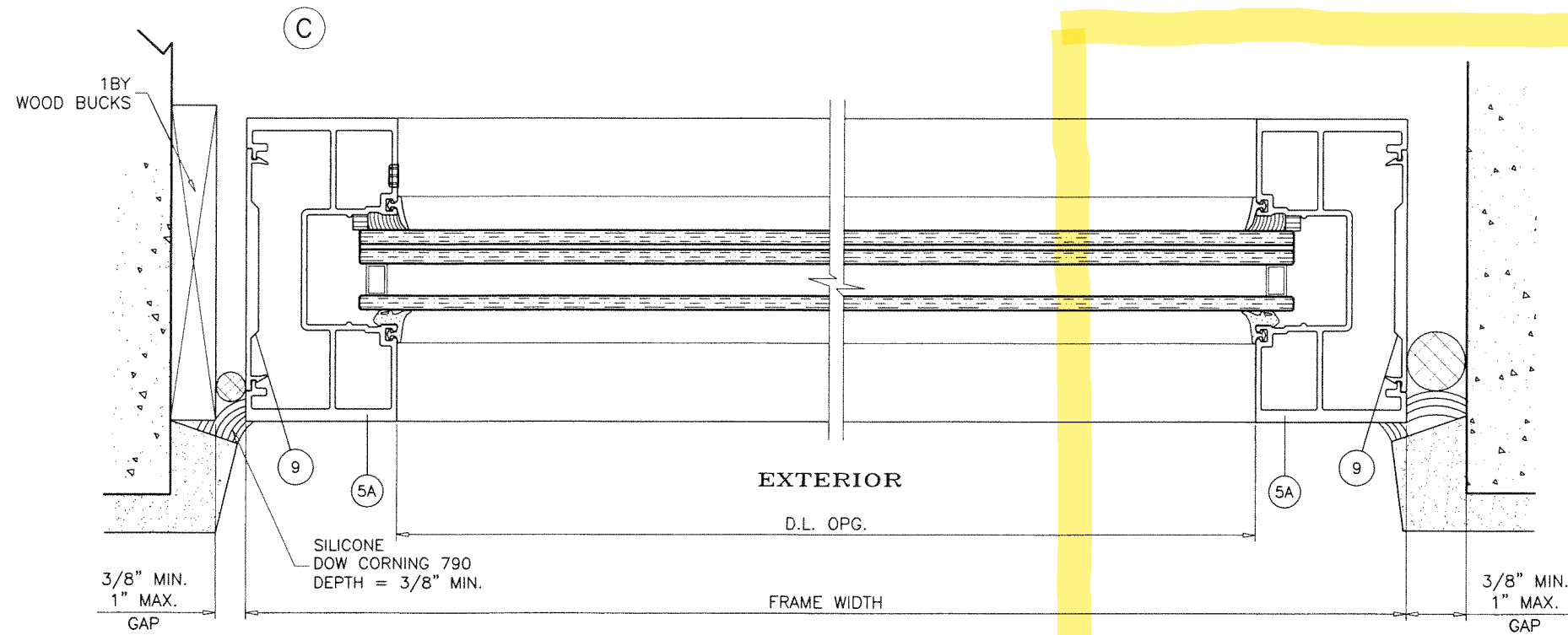
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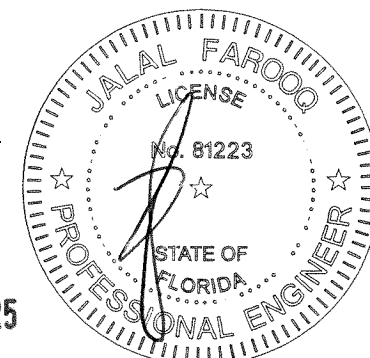
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INSUL. LAM. GLASS

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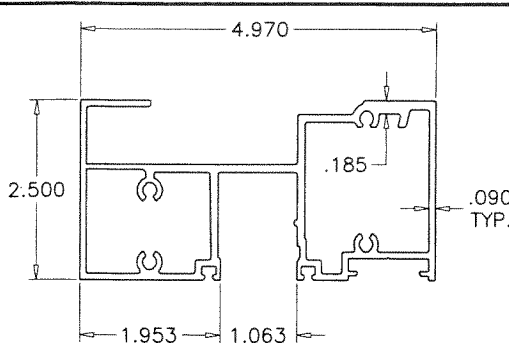
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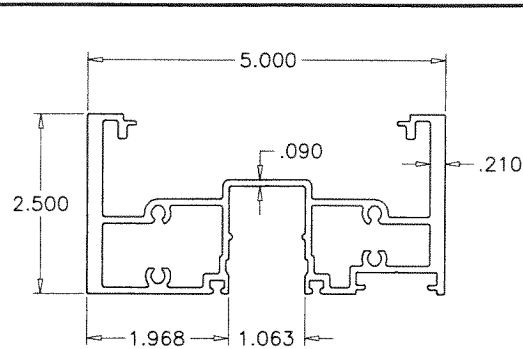
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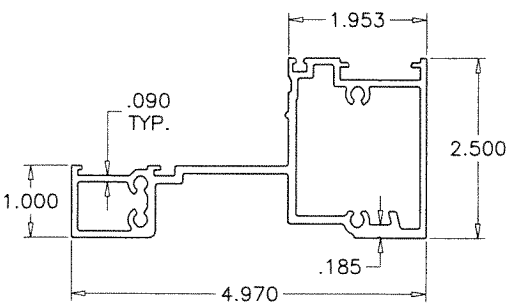
drawing no.
W10-25
sheet 7 of 9



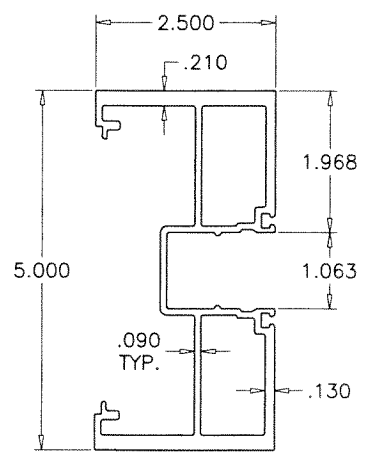
1 FRAME HEAD



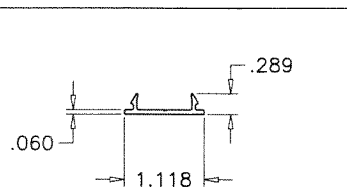
1.1 ALT. FRAME HEAD



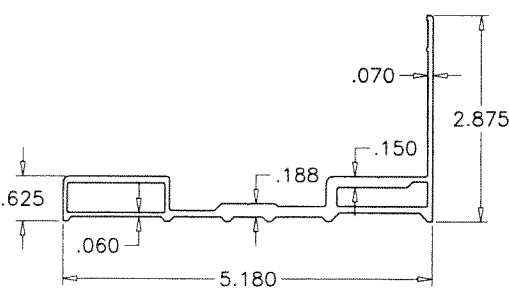
2 FRAME SILL



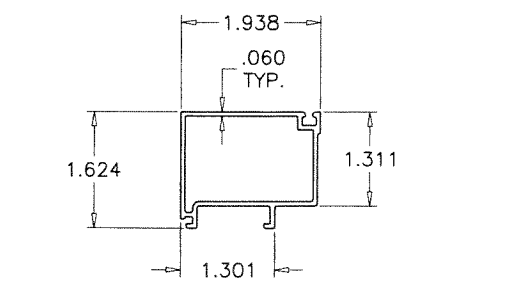
5 FRAME JAMB



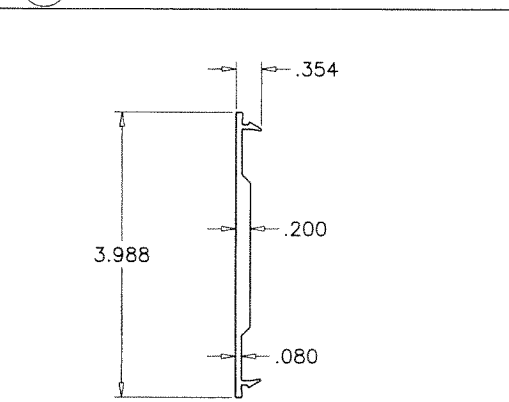
6 FRAME COVER



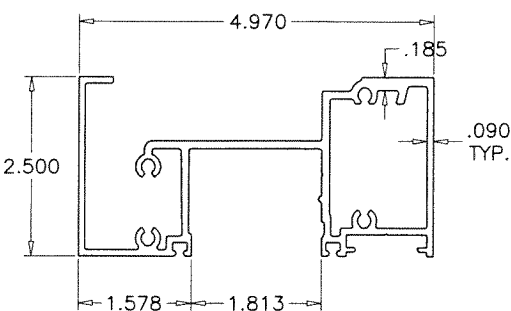
8 SILL FLASHING



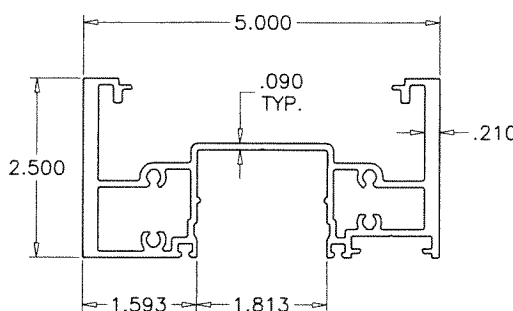
4 GLAZING STOP



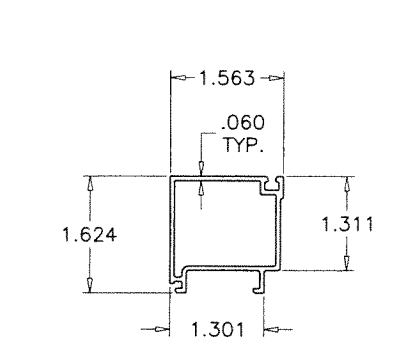
9 JAMB FILLER



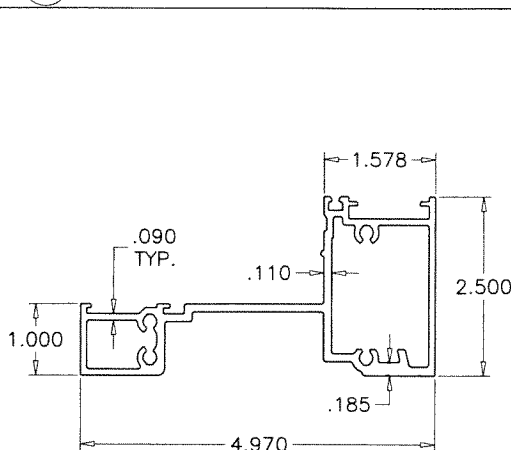
1A FRAME HEAD



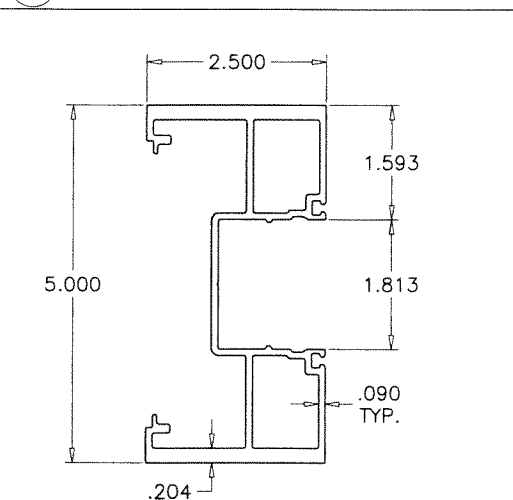
1.1A ALT. FRAME HEAD



4A GLAZING STOP



2A FRAME SILL



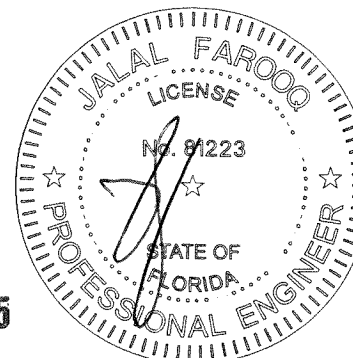
5A FRAME JAMB/MULLION

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-9506M	AS REQD.	FRAME HEAD (LAM. GLASS)	6063-T6	-
1.1	ES9511	AS REQD.	ALT. FRAME HEAD (LAM. GLASS)	6063-T6	-
2	ES9503	AS REQD.	FRAME SILL (LAM. GLASS)	6063-T6	-
4	ES9504	AS REQD.	GLAZING STOP (LAM. GLASS)	6063-T5	-
5	ES-9507A	AS REQD.	FRAME JAMB/MULLION (LAM. GLASS)	6063-T6	-
6	ES9502	AS REQD.	FRAME COVER	6063-T5	-
8	ES9501	AS REQD.	SILL FLASHING	6063-T5	-
9	ES9016	AS REQD.	JAMB FILLER	6063-T6	-
11	#12 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST/ST	P.H. SMS
12	27-432	AS REQD.	WEDGE GASKET	EPDM	DUROMETER 65±5 SHORE A
13	-	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING 795 OR 983
14	27-434	AS REQD.	TRIM GASKET	EPDM	DUROMETER 65±5 SHORE A
15	-	AS REQD.	INTERIOR SPACER 1/4" X 1/4"	POLYURETHANE	-
16	-	AS REQD.	SETTING BLOCK (LAM. GLASS)	EPDM	DUROMETER 75±5 SHORE A
16A	-	AS REQD.	SETTING BLOCK (INSUL. LAM. GLASS)	EPDM	DUROMETER 75±5 SHORE A
17	-	AS REQD.	SIDE BLOCK	EPDM	DUROMETER 75±5 SHORE A
1A	ES-9554	AS REQD.	FRAME HEAD (INSUL. LAM. GLASS)	6063-T6	-
1.1A	ES-9558	AS REQD.	ALT. FRAME HEAD (INSUL. LAM. GLASS)	6063-T6	-
2A	ES-9551	AS REQD.	FRAME SILL (INSUL. LAM. GLASS)	6063-T6	-
4A	ES-9552	AS REQD.	GLAZING STOP (INSUL. LAM. GLASS)	6063-T5	-
5A	ES-9555	AS REQD.	FRAME JAMB/MULLION (INSUL. LAM. GLASS)	6063-T6	-

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

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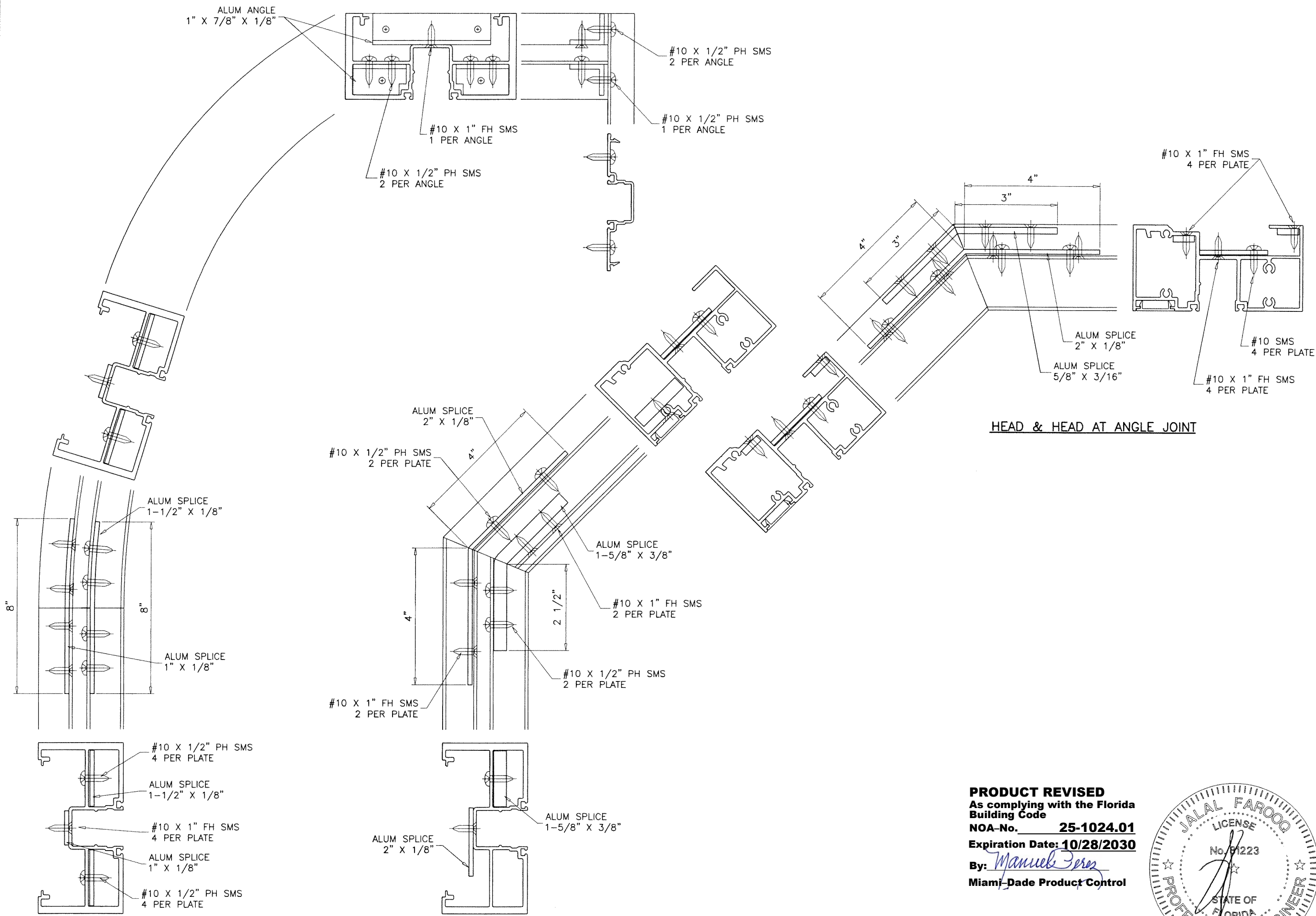
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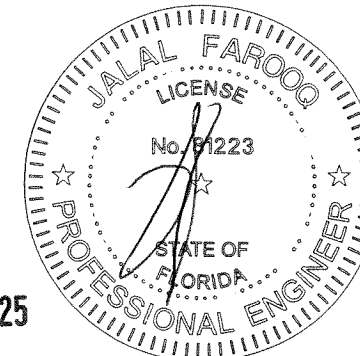


JAMB AT CIRCULAR JOINT

JAMB & HEAD AT ANGLE JOINT

HEAD & HEAD AT ANGLE JOINT

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