



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599

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

www.miamidade.gov/building

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 “2100” Aluminum Horizontal Sliding Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W04-101**, titled “Series-2100 Alum. Horiz. Sliding Wdw. (S.M.I.)”, sheets 1 through 8 of 8, dated 11/26/04, with revision **J** dated 08/09/24, 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: 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. 23-0731.07** 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.**




 10/07/24

NOA No. 24-0912.15
Expiration Date: February 10, 2030
Approval Date: October 17, 2024
 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. 04-1208.02)
2. Drawing No. **W04-101**, titled "Series-2100 Alum. Horiz. Sliding Wdw. (S.M.I)", sheets 1 through 8 of 8, dated 11/26/04, with revision **I** dated 07/06/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0731.07)

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) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of a horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-5686**, dated 12/30/08, signed and sealed by Carlos S. Rionda, P.E. and **FTL-5811**, dated 02/16/09, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No. 09-1008.04)
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 horizontal sliding window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-04-1921**, dated 10/15/04, and **HETI-05-1937** dated 01/26/05, both signed and sealed by Ivonne Ghia, P.E.
(Submitted under NOA No. 05-0303.02)
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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of a horizontal sliding window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-04-1412** dated 10/13/04, and **HETI-05-1423** dated 01/12/05, both signed and sealed by Ivonne Ghia, P.E.
(Submitted under NOA's No. 05-0303.02 and 04-1208.02)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0912.15
Expiration Date: February 10, 2030
Approval Date: October 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), dated 09/22/17, and updated on 10/26/20 to comply with FBC 7th Edition (2020), prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1202.07)
2. Glazing complies with ASTM E1300-09

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. 23-0731.07)

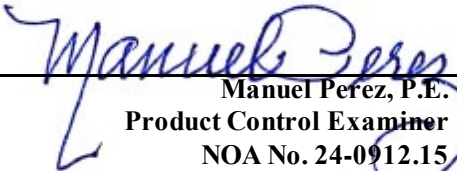
G. OTHERS

1. Notice of Acceptance No. **20-1202.07**, issued to E.S. Windows, LLC, for their Series “2100” Aluminum Horizontal Sliding Window – S.M.I., approved on 03/04/21 and expiring on 02/10/25.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W04-101**, titled “Series-2100 Alum. Horiz. Sliding Wdw. (S.M.I)”, sheets 1 through 8 of 8, dated 11/26/04, with revision **J** dated 08/09/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0912.15
Expiration Date: February 10, 2030
Approval Date: October 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

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) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a horizontal sliding window, prepared by Blackwater Technical Services, Inc., Test Report No. **BT-ESW-23-040**, dated 08/16/24, signed and sealed by Michael D. Caldwell, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, have been checked to comply with FBC 8th Edition (2023), dated 08/29/24, 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

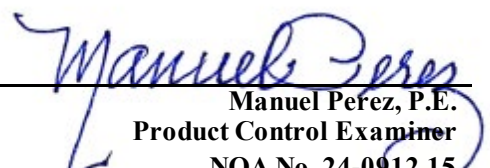
1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28.
2. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 03/21/24, expiring on 07/08/29.
3. Notice of Acceptance No. **23-0713.13** issued to **Chang Chun Chemical Corporation** for their “**WINLITE® PVB Film Glass Interlayer**” dated 08/17/23, expiring on 10/08/25.

F. STATEMENTS

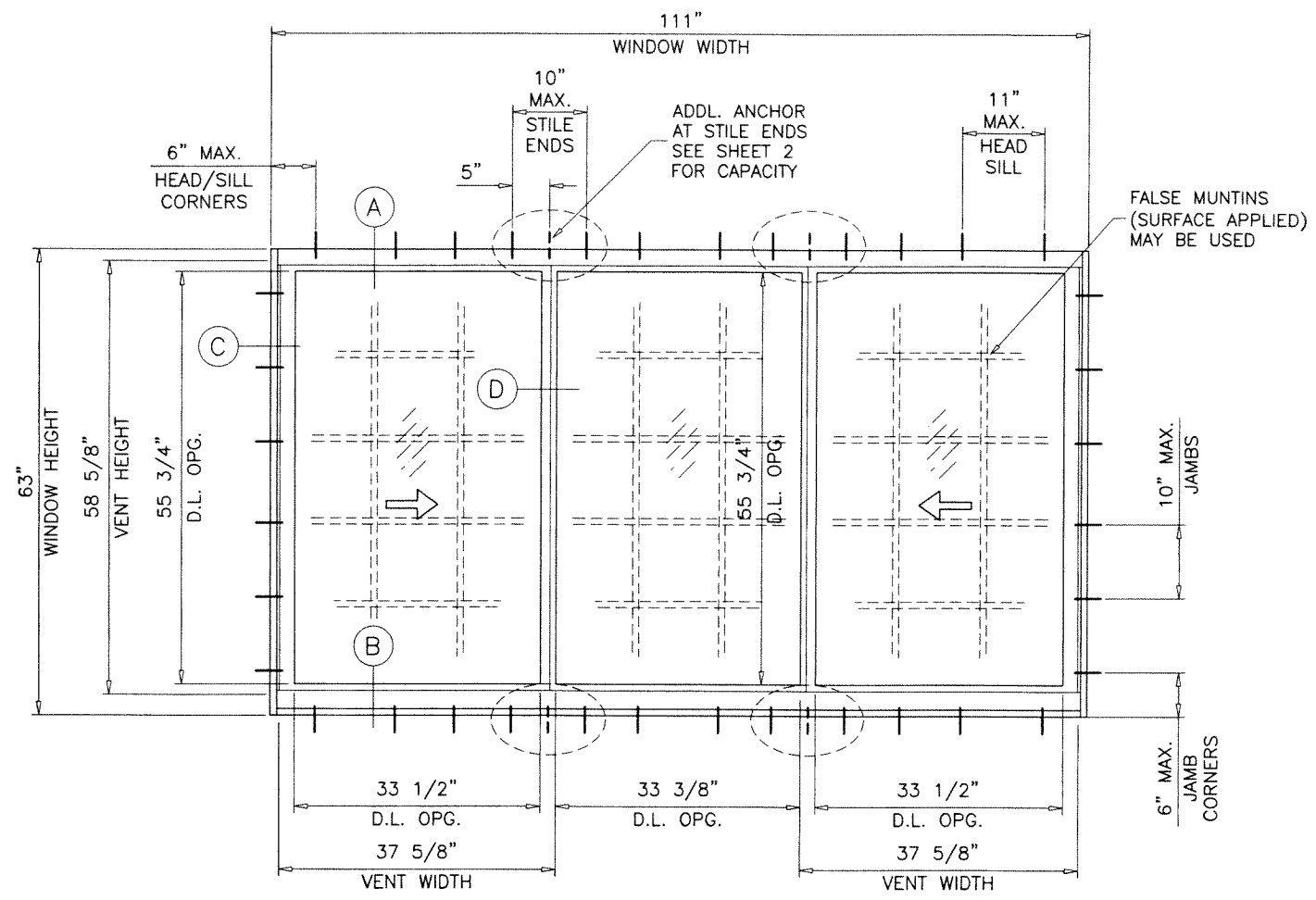
1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, and of no financial interest, dated August 29, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **23-0731.07**, issued to E.S. Windows, LLC, for their Series “2100” Aluminum Horizontal Sliding Window – S.M.I., approved on 08/31/23 and expiring on 02/10/25.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0912.15
Expiration Date: February 10, 2030
Approval Date: October 17, 2024

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.



TYPICAL ELEVATION

SERIES-2100 ALUM HORIZ. SLIDING WINDOW

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 H.R./H.R. OR H.R. WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE 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 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.

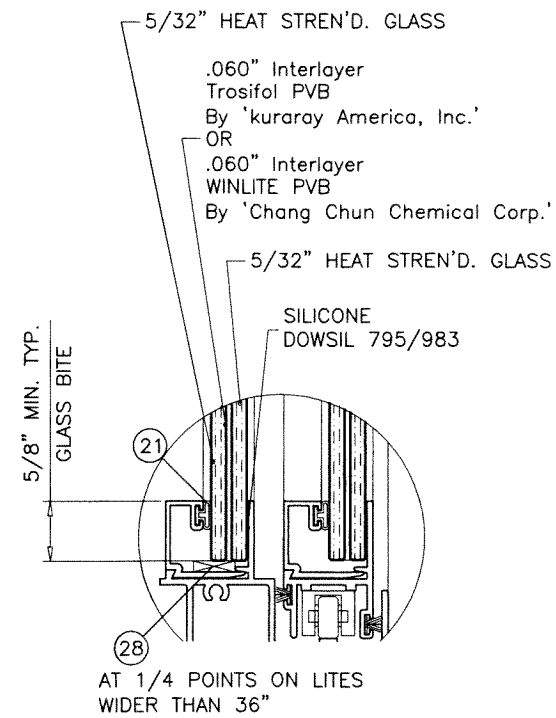
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

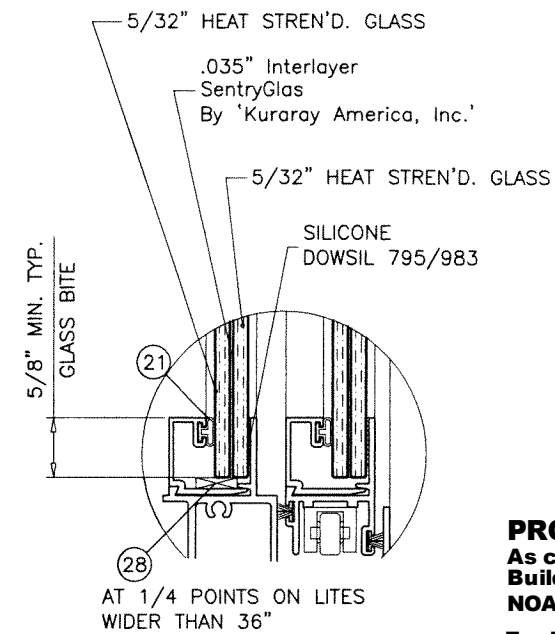
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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)'.



GLASS TYPE 'A'

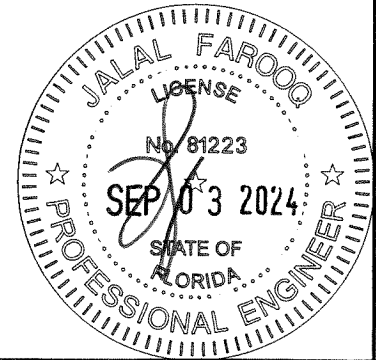


GLASS TYPE 'B'

GLAZING OPTIONS

LAMINATED GLASS
 SMALL MISSILE IMPACT

PRODUCT REVISED
 As complying with the Florida Building Code
 NOA-No. **24-0912.15**
 Expiration Date: **02/10/2030**
 By: *Manuel Perez*
 Miami-Dade Product Control



SERIES-2100 ALUM HORIZ. SLIDING WDW. (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	10.09.17	UPDATED TO 2017 FBC
H	11.05.20	UPDATED TO 2020 FBC
I	07.06.23	UPDATED TO 2023 FBC
J	08.09.24	WINLITE INTERLAYER ADDED

date: 11-26-04
 scale: 1/2" = 1'-0"
 dr. by: TARIQ
 chk. by:

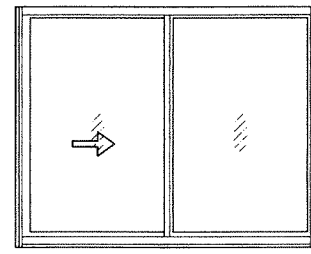
drawing no.
W04-101

sheet 1 of 8

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\W04-101ES

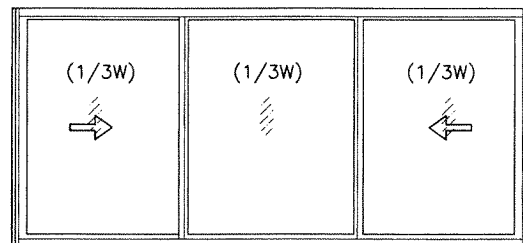
DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)												
WINDOW DIMS. WIDTH HEIGHT		A	STD. ANCHOR SPACING				ADDL. ANCHOR					
			GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'A'		GLASS TYPE 'B'			
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
26-1/2"	26"	(2)	3	82.0	108.0	82.0	82.0	-	-	-	-	
37"			4	82.0	108.0	82.0	82.0	-	-	-	-	
53-1/8"			6	82.0	108.0	82.0	82.0	-	-	-	-	
74"			8	82.0	108.0	82.0	82.0	-	-	-	-	
26-1/2"	38-3/8"	(3)	3	82.0	108.0	82.0	82.0	-	-	-	-	
37"			4	82.0	108.0	82.0	82.0	-	-	-	-	
53-1/8"			6	82.0	108.0	82.0	82.0	-	-	-	-	
74"			8	82.0	108.0	82.0	82.0	-	-	-	-	
26-1/2"	50-5/8"	(4)	3	82.0	108.0	82.0	82.0	-	-	-	-	
37"			4	82.0	108.0	82.0	82.0	-	-	-	-	
53-1/8"			6	82.0	108.0	82.0	82.0	-	-	-	-	
74"			8	82.0	108.0	82.0	82.0	-	-	-	-	
26-1/2"	63"	(4)	3	82.0	108.0	82.0	82.0	-	-	-	-	
37"			4	82.0	108.0	82.0	82.0	-	-	-	-	
53-1/8"			6	82.0	92.5	82.0	82.0	82.0	108.0	-	-	-
74"			8	75.3	75.3	75.3	75.3	82.0	82.0	82.0	82.0	-
24"	24"	(2)	3	82.0	108.0	82.0	82.0	-	-	-	-	
36"			4	82.0	108.0	82.0	82.0	-	-	-	-	
48"			6	82.0	108.0	82.0	82.0	-	-	-	-	
60"			6	82.0	108.0	82.0	82.0	-	-	-	-	
66"			6	82.0	108.0	82.0	82.0	-	-	-	-	
72"			8	82.0	108.0	82.0	82.0	-	-	-	-	
24"	36"	(3)	3	82.0	108.0	82.0	82.0	-	-	-	-	
36"			4	82.0	108.0	82.0	82.0	-	-	-	-	
48"			6	82.0	108.0	82.0	82.0	-	-	-	-	
60"			6	82.0	108.0	82.0	82.0	-	-	-	-	
66"			6	82.0	108.0	82.0	82.0	-	-	-	-	
72"			8	82.0	108.0	82.0	82.0	-	-	-	-	
24"	48"	(4)	3	82.0	108.0	82.0	82.0	-	-	-	-	
36"			4	82.0	108.0	82.0	82.0	-	-	-	-	
48"			6	82.0	108.0	82.0	82.0	-	-	-	-	
60"			6	82.0	108.0	82.0	82.0	-	-	-	-	
66"			6	82.0	108.0	82.0	82.0	-	-	-	-	
72"			8	82.0	108.0	82.0	82.0	-	-	-	-	
24"	60"	(4)	3	82.0	108.0	82.0	82.0	-	-	-	-	
36"			4	82.0	108.0	82.0	82.0	-	-	-	-	
48"			6	82.0	106.5	82.0	82.0	82.0	108.0	-	-	-
60"			6	82.0	91.7	82.0	82.0	82.0	108.0	-	-	-
66"			6	82.0	86.6	82.0	82.0	82.0	108.0	-	-	-
72"			8	82.0	82.7	82.0	82.0	82.0	108.0	-	-	-
24"	66"	(5)	3	82.0	108.0	82.0	82.0	-	-	-	-	
36"			4	82.0	108.0	82.0	82.0	-	-	-	-	
48"			6	82.0	93.3	82.0	82.0	82.0	108.0	-	-	-
60"			6	79.6	79.6	79.6	79.6	82.0	108.0	82.0	82.0	-
66"			6	74.8	74.8	74.8	74.8	76.7	108.0	76.7	82.0	-

A = NO. OF ANCHORS PER HEAD & SILL
() = NO. OF ANCHORS PER JAMB



DESIGN LOAD CAPACITY - PSF (XOX SIZES)										
WINDOW DIMS. WIDTH HEIGHT		A	STD. ANCHORS		ADDL. ANCHOR					
			GLASS 'A' & 'B'		GLASS 'A' & 'B'					
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)				
74"	26"	(2)	9	82.0	82.0	-	-	-	-	
106-1/4"			12	82.0	82.0	-	-	-	-	
111"			12	82.0	82.0	-	-	-	-	
74"	38-3/8"	(3)	9	82.0	82.0	-	-	-	-	
106-1/4"			12	82.0	82.0	-	-	-	-	
111"			12	82.0	82.0	-	-	-	-	
74"	50-5/8"	(4)	9	82.0	82.0	-	-	-	-	
106-1/4"			12	82.0	82.0	-	-	-	-	
111"			12	82.0	82.0	-	-	-	-	
74"	63"	(4)	9	82.0	82.0	-	-	-	-	
106-1/4"			12	77.1	77.1	82.0	82.0	-	-	-
111"			12	75.3	75.3	82.0	82.0	-	-	-
72"	24"	(2)	9	82.0	82.0	-	-	-	-	
84"			9	82.0	82.0	-	-	-	-	
96"			9	82.0	82.0	-	-	-	-	
108"	36"	(3)	9	82.0	82.0	-	-	-	-	
84"			9	82.0	82.0	-	-	-	-	
96"			9	82.0	82.0	-	-	-	-	
108"	48"	(4)	9	82.0	82.0	-	-	-	-	
84"			9	82.0	82.0	-	-	-	-	
96"			9	82.0	82.0	-	-	-	-	
108"	60"	(4)	9	82.0	82.0	-	-	-	-	
84"			9	82.0	82.0	-	-	-	-	
96"			9	82.0	82.0	-	-	-	-	
108"	66"	(5)	9	82.0	82.0	-	-	-	-	
84"			9	82.0	82.0	-	-	-	-	
96"			9	76.3	76.3	78.6	82.0	-	-	-

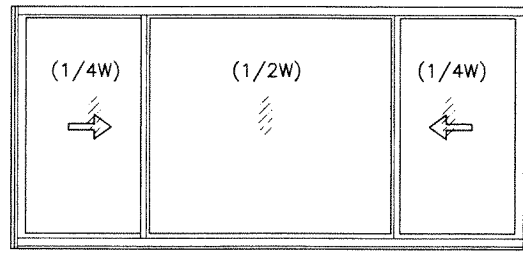
A = NO. OF ANCHORS PER HEAD & SILL
() = NO. OF ANCHORS PER JAMB



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

DESIGN LOAD CAPACITY - PSF (XOX SIZES)							
WINDOW DIMS. WIDTH HEIGHT		A	STD. ANCHORS				
			GLASS 'A' & 'B'				
			EXT.(+)	INT.(-)			
74"	26"	(2)	8	82.0	82.0	-	-
106-1/4"			11	82.0	82.0	-	-
111"			12	82.0	82.0	-	-
74"	38-3/8"	(3)	8	82.0	82.0	-	-
106-1/4"			11	82.0	82.0	-	-
111"			12	82.0	82.0	-	-
74"	50-5/8"	(4)	8	82.0	82.0	-	-
74"			8	82.0	82.0	-	-
74"	63"	(4)	8	82.0	82.0	-	-
74"			8	82.0	82.0	-	-
72"	24"	(2)	8	82.0	82.0	-	-
84"			8	82.0	82.0	-	-
96"			9	82.0	82.0	-	-
108"	36"	(3)	8	82.0	82.0	-	-
84"			8	82.0	82.0	-	-
96"			9	82.0	82.0	-	-
108"	48"	(4)	8	82.0	82.0	-	-
84"			8	82.0	82.0	-	-
96"			9	82.0	82.0	-	-
72"	60"	(4)	8	82.0	82.0	-	-
72"			8	82.0	82.0	-	-

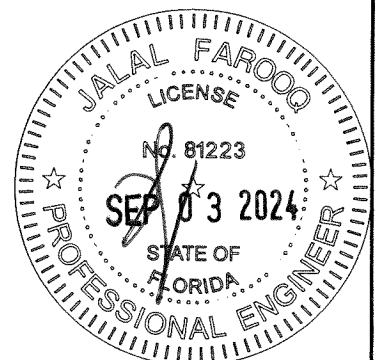
A = NO. OF ANCHORS PER HEAD & SILL
() = NO. OF ANCHORS PER JAMB



OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

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

PRODUCT REVISED
As complying with the Florida
Building Code
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Expiration Date: **02/10/2030**
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

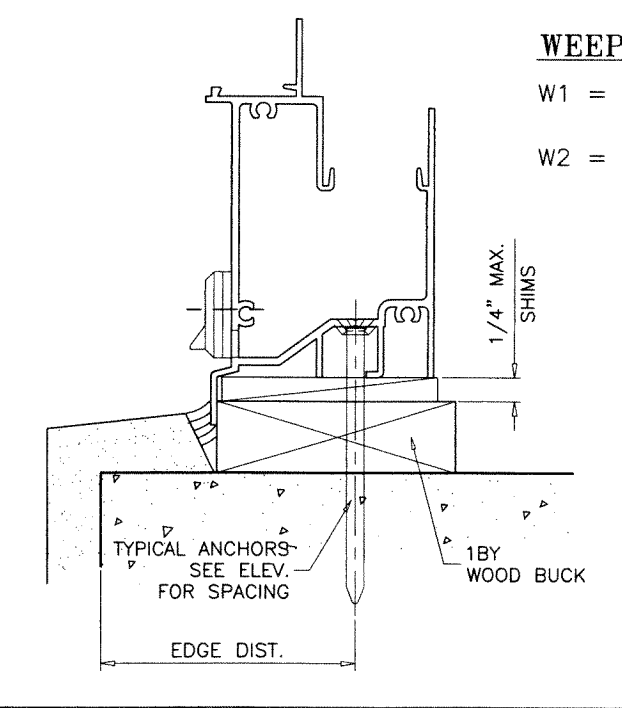
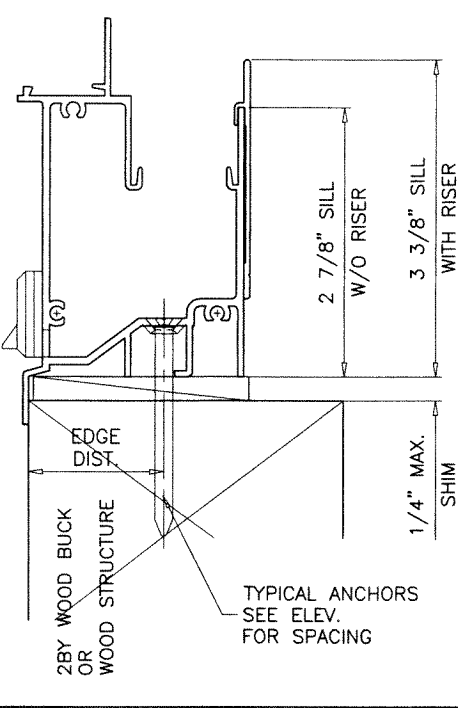
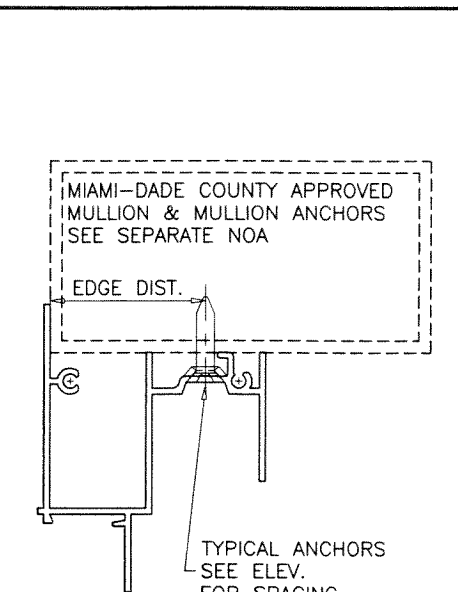
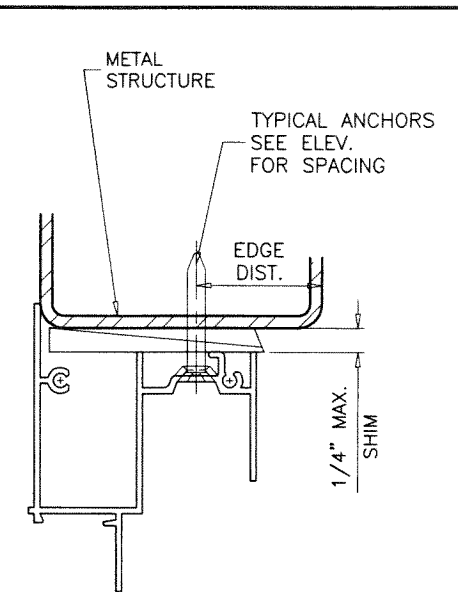
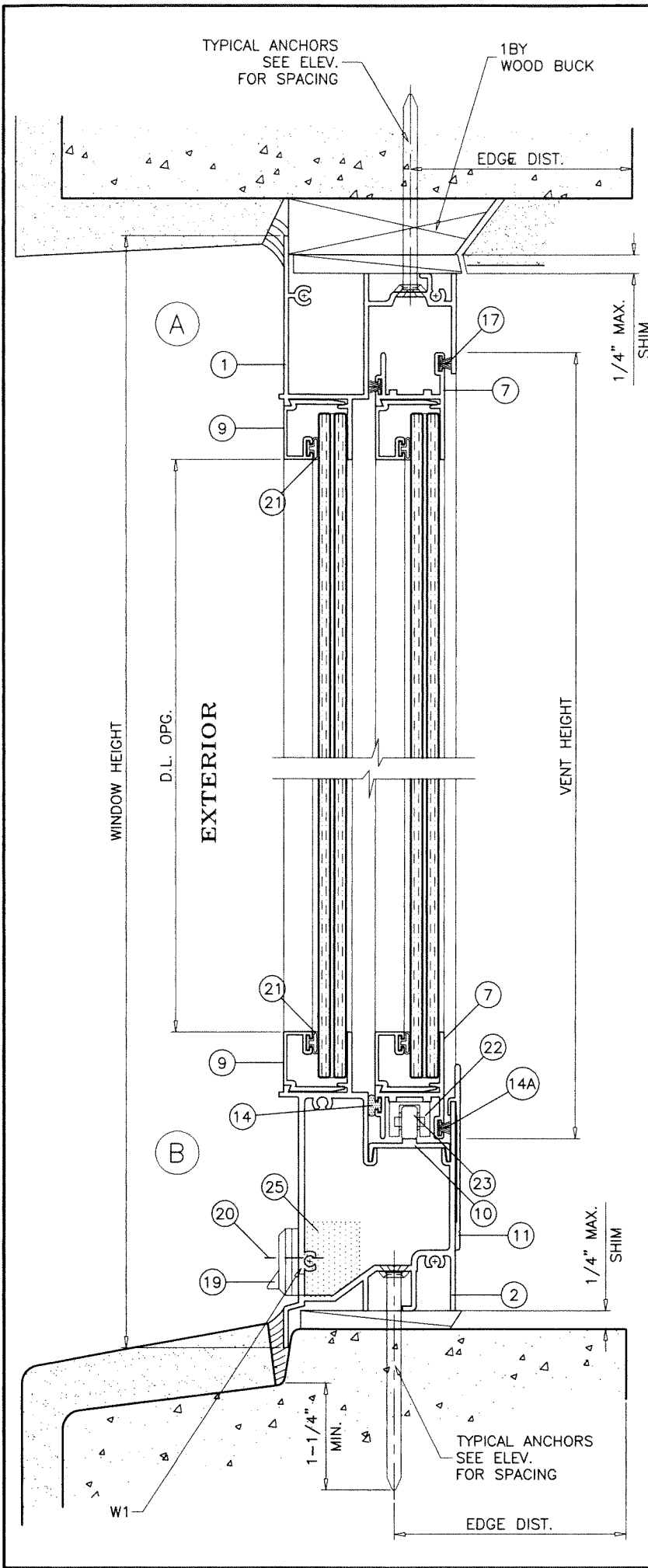
SERIES-2100 ALUM HORIZ. SLIDING WDW. (S.M.I.)

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

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date: 11-26-04
scale: 1/2" = 1'-0"
dr. by: TARIQ
chk. by:

drawing no. **W04-101**
sheet 2 of 8



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

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)
 1-1/4" 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)

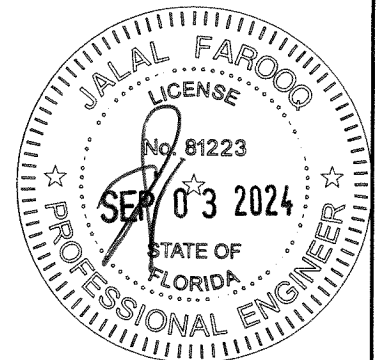
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE 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.

SEALANTS:
 FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:
 W1 = 1-13/16" X 1/4" WEEPHOLES AT 3" FROM EACH END WITH PLASTIC BAFFLE
 W2 = 1/4" WEEPHOLE AT TOP & BOTTOM RAIL 1" FROM EACH END

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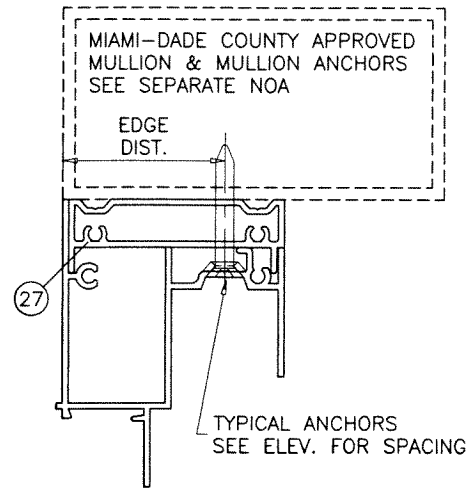
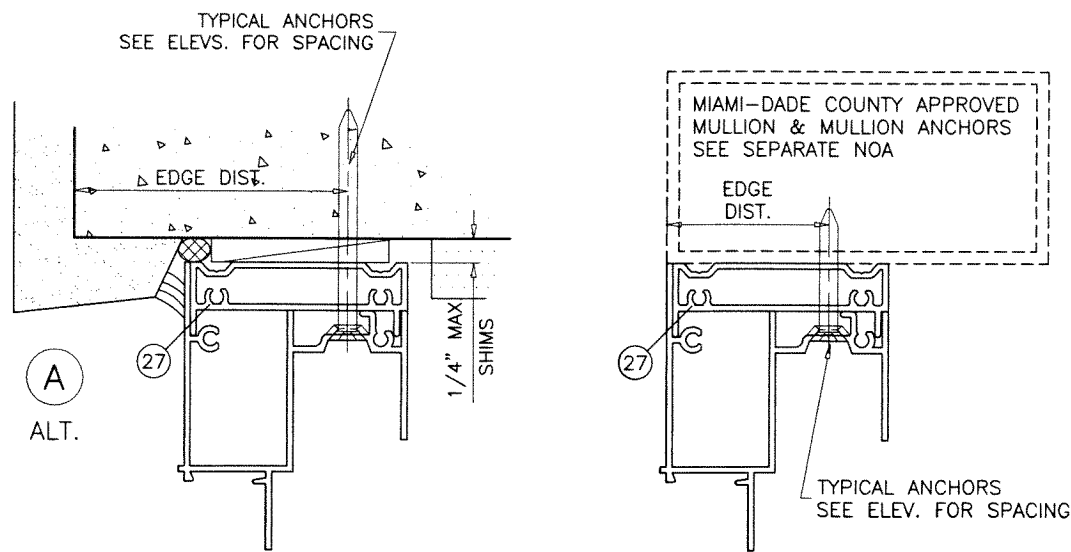
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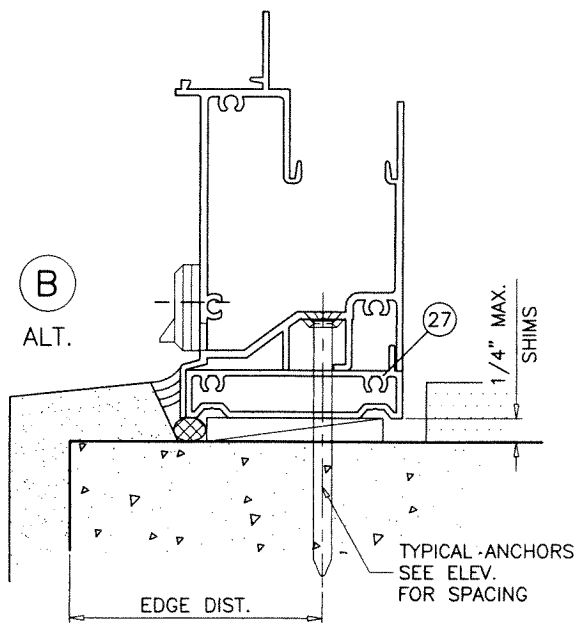
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 dr. by: TARIQ
 chk. by:

drawing no. **W04-101**
 sheet 3 of 8



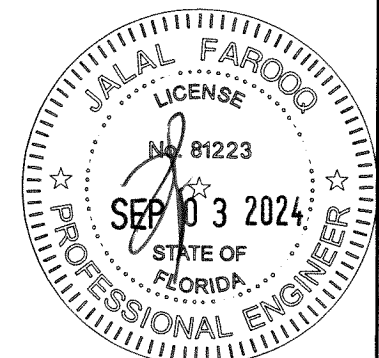
A
ALT.

B
ALT.



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1003	1	FRAME HEAD	6063-T6	-
2	ES2012	1	FRAME SILL	6063-T6	-
3	ES2003	1	FRAME JAMB	6063-T6	-
5	ES1005	1/ VENT	FIXED RAIL (AT SPRING LATCHES)	6063-T6	-
5A	ES1051	1/ VENT	FIXED RAIL (AT SWEEP LATCHES)	6063-T6	-
6	ES2004	1/ VENT	H.D. VENT MEETING RAIL (AT SPRING LATCHES)	6063-T6	-
6A	ES1053	1/ VENT	H.D. VENT MEETING RAIL (AT SWEEP LATCHES)	6063-T6	-
6.1	ES-2004A	1/ VENT	H.D. VENT MEETING RAIL (AT SPRING LATCHES)	6063-T6	ALTERNATE TO 6
6A.1	ES-1053A	1/ VENT	H.D. VENT MEETING RAIL (AT SWEEP LATCHES)	6063-T6	ALTERNATE TO 6A
7	ES1007	2/ VENT	TOP AND BOTTOM RAIL	6063-T6	-
8	ES1006	1/ VENT	JAMB STILE	6063-T6	-
9	ES1103	AS REQD.	GLAZING BEAD	6063-T6	-
10	ES2002	1	SILL TRACK INSERT	6063-T6	-
11	ES2011	AS REQD.	STD. SILL RISER	6063-T6	-
12	ES1009	2/ VENT	SPRING LOADED VENT LATCH	6063-T6	AT 8" FROM ENDS
12A	SL203	2/ VENT	SWEEP LATCH	ZAMAK	AT 11" FROM ENDS, BY INTERLOCK
12B	#8 X 1"	2/ LATCH	LATCH INSTALLATION SCREWS	-	FH SMS
13	ES1012	1/ LATCH	VENT LATCH SPRING	ST. STEEL	-
14	C1B251N	AS REQD.	FOAM FILLED FABRIC W'STRIPPING	-	SCHLEGEL
14A	W23221NG	AS REQD.	FIN SEAL PILE W'STRIPPING	-	ULTRAFAB
15	#8 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS	P.H. SMS
16	#10 X 4"	2/ VENT	FIX. RAIL SILL SCREWS	CRS	P.H. SMS
17	W2321NG	AS REQD.	VENT & FIX. RAIL W'STRIPPING	-	ULTRAFAB
18	W23291NG	AS REQD.	FRAME JAMB W'STRIPPING	-	ULTRAFAB
19	WPHL-100	2	BAFFLE	-	M & M PLASTICS
20	#6 X 1/2"	2/ BAFFLE	BAFFLE SCREW	-	F.H. SMS
21	ES-5008A S-2	AS REQD.	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
22	ES2007	4/ VENT	ROLLER HOUSING & GUIDE	PLASTIC	-
23	TAR-14029P-HK-A	2/ VENT	ROLLER	-	PABOSE
24	ES2005	2/ VENT	ROLLER PIN	ST. STEEL	-
25	-	1/ WEEP	OPEN CELL FOAM PAD	-	1" X 3/4" X 1" LONG
26	-	1/ VENT	5/16" BOX SCREEN	-	OPTIONAL
27	ES1505	-	FLUSH FRAME ADAPTER	6063-T5	OPTIONAL
28	27-372	2/ LITE	SETTING BLOCK, 7/16" X 3/16" X 3-1/2" LONG	EPDM	DUROMETER 75±5 SHORE A

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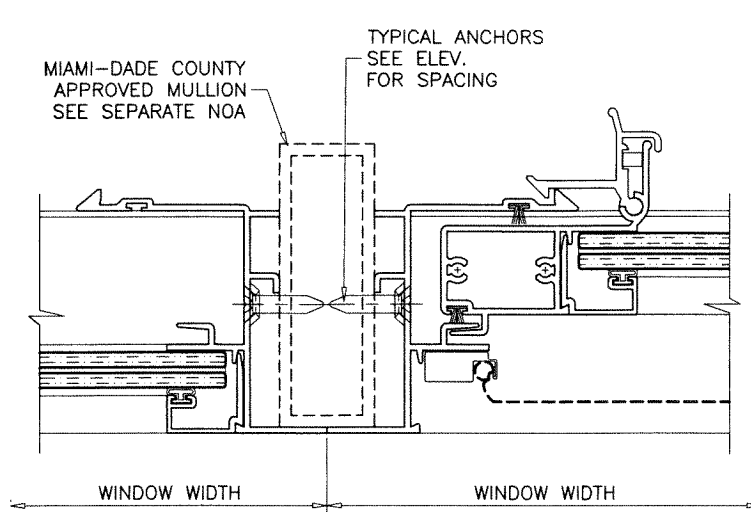
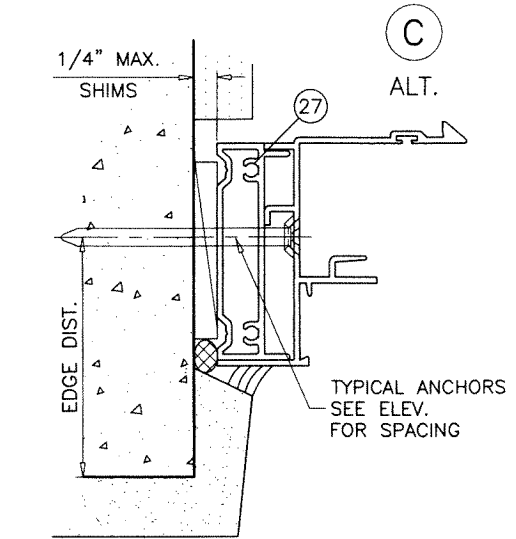
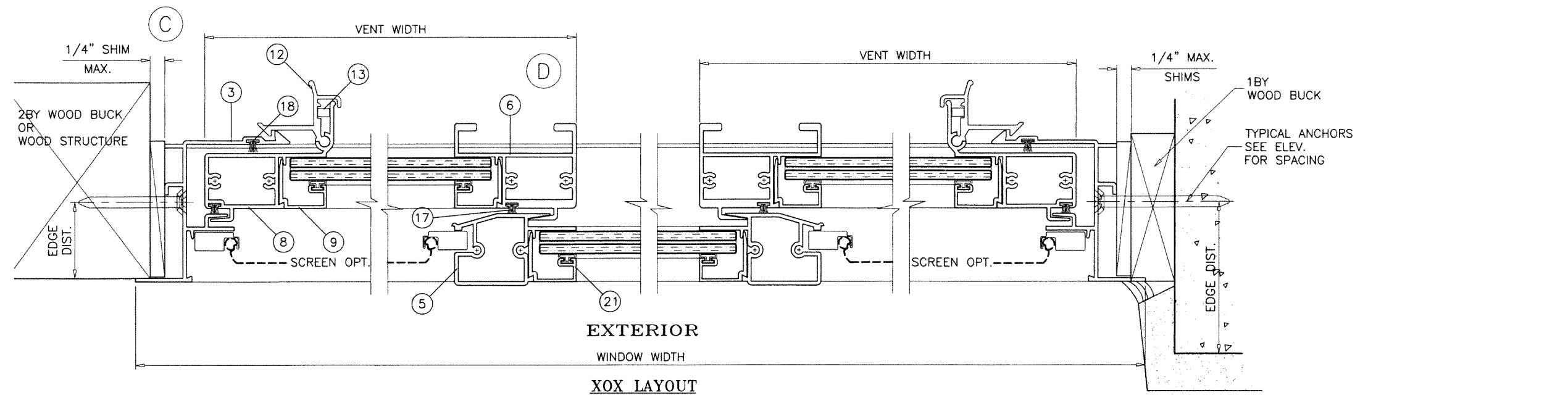
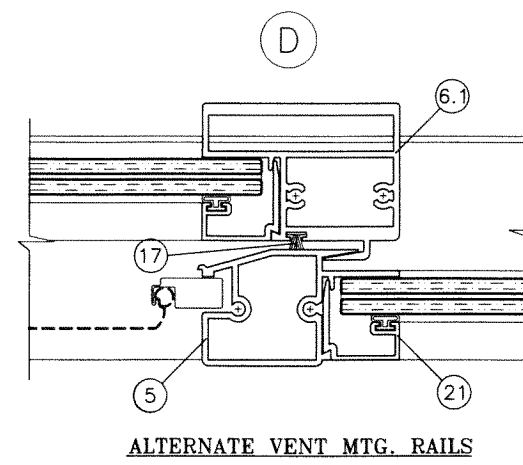
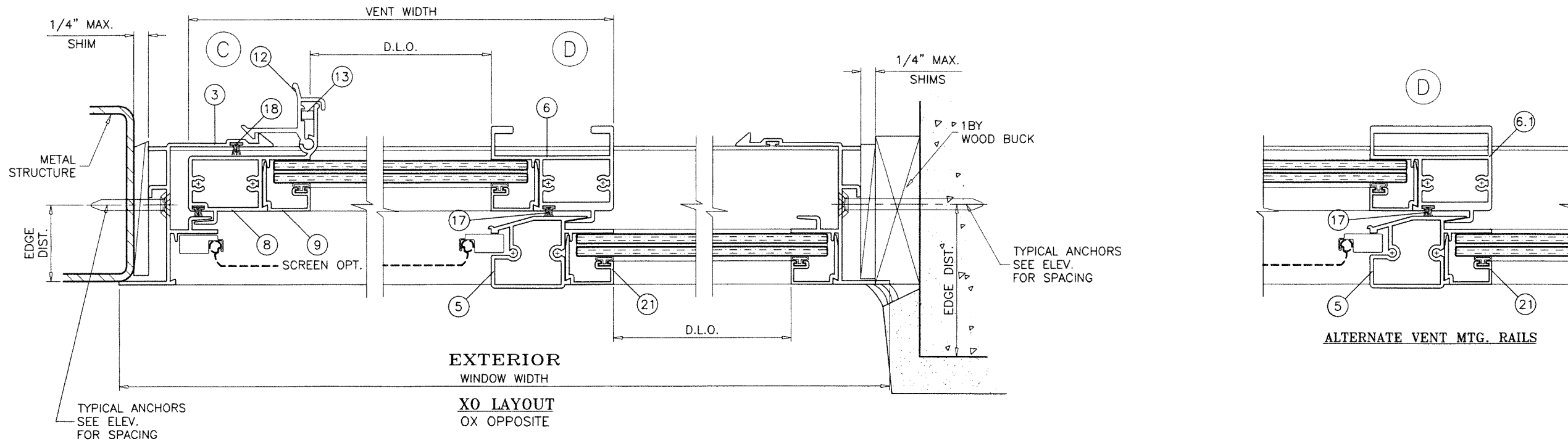
AL-FAROOQ CORPORATION
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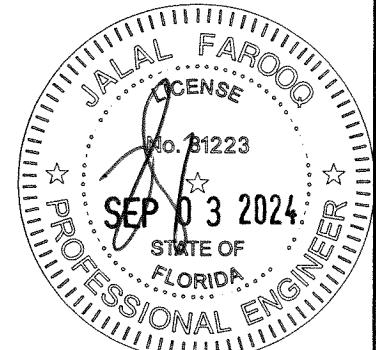
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 dr. by: TARIQ
 chk. by:
 drawing no. **W04-101**
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COMP-ANL\W04-101ES



VENTS WITH
SPRING LOADED LATCHES

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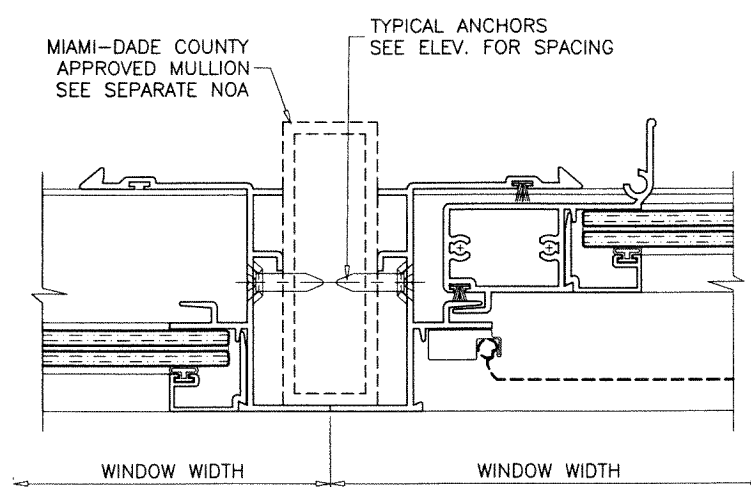
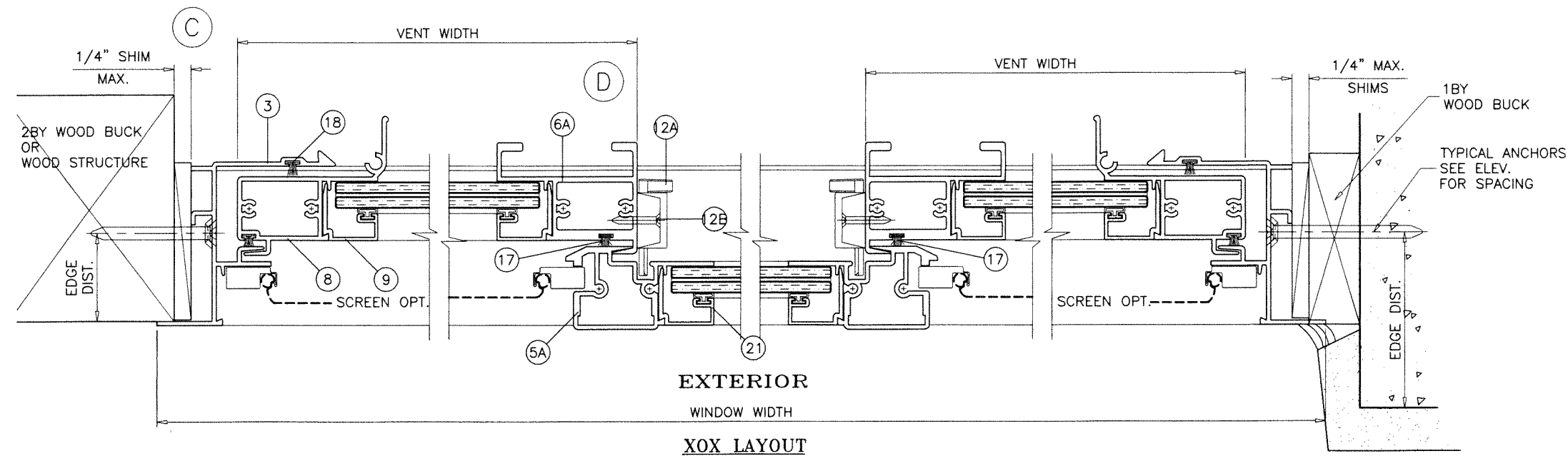
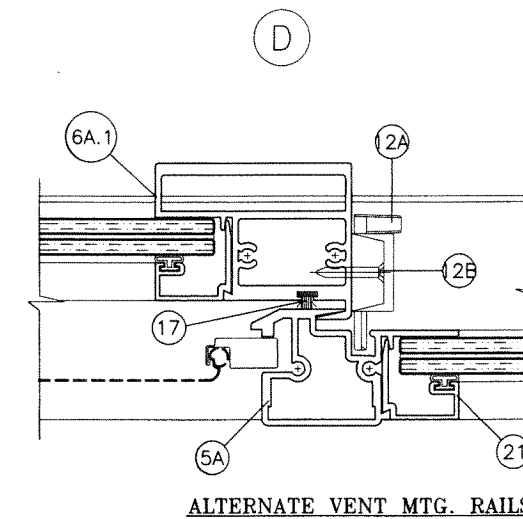
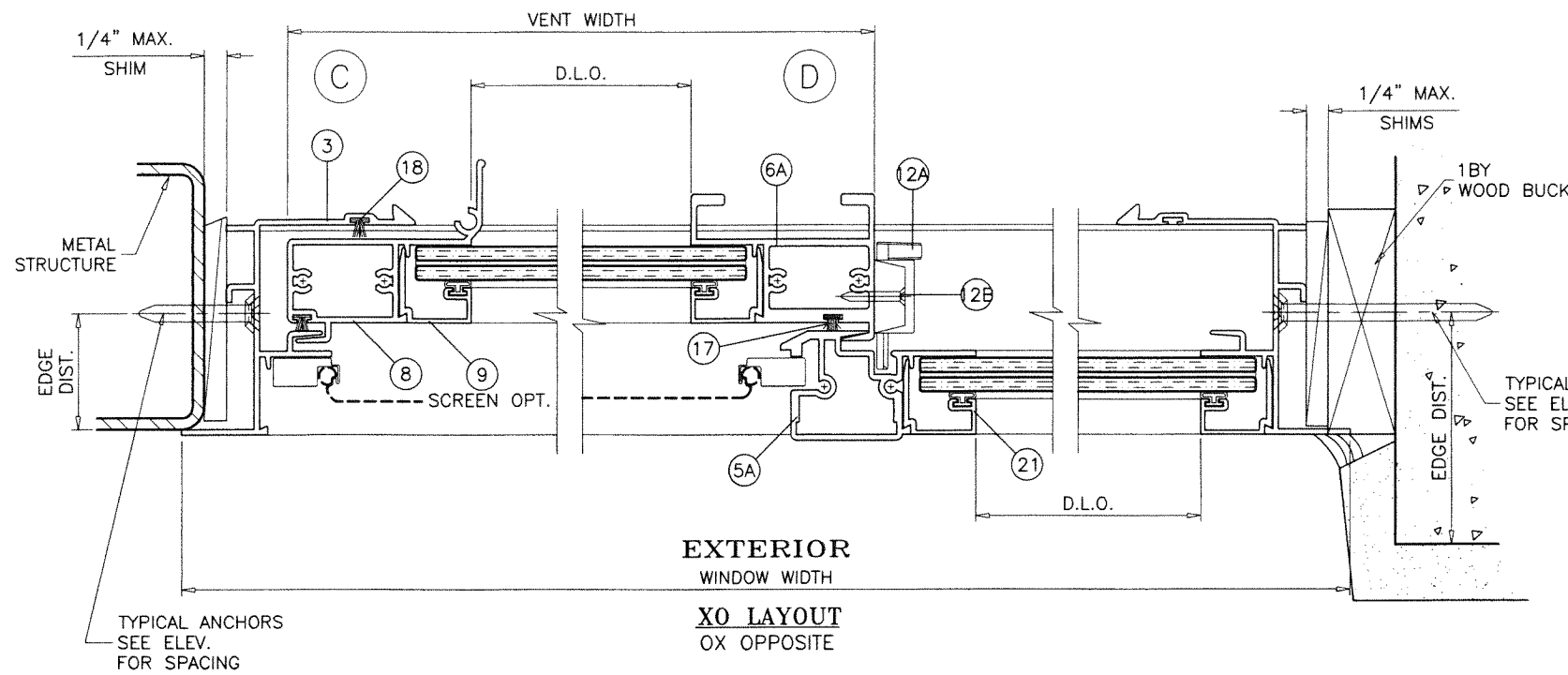
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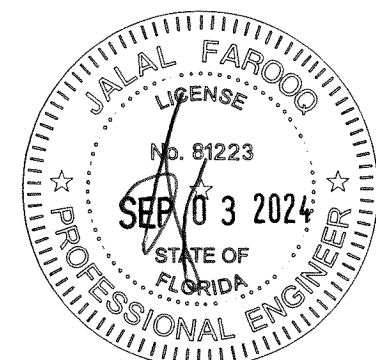
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dr. by: TARIQ
chk. by:

drawing no.
W04-101
sheet 5 of 8



VENTS WITH SWEEP LATCHES

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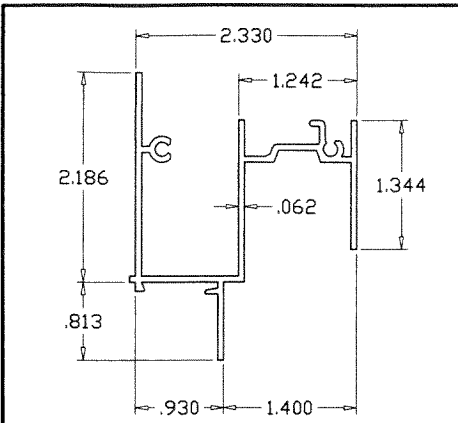
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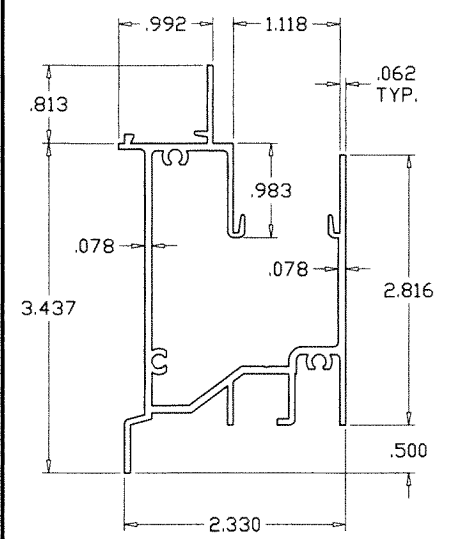
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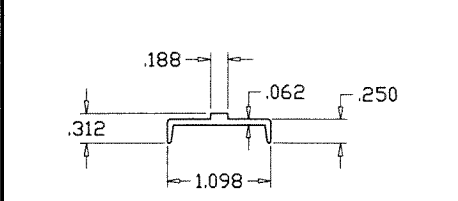
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 sheet 6 of 8



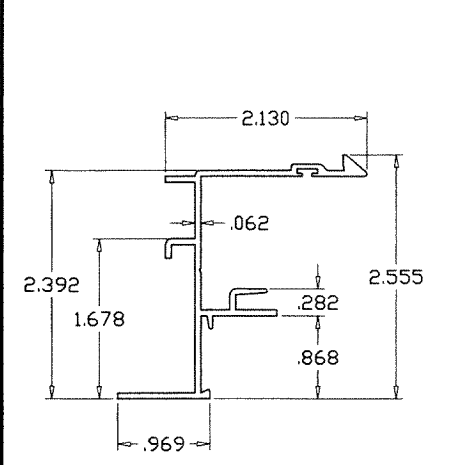
1 FRAME HEAD



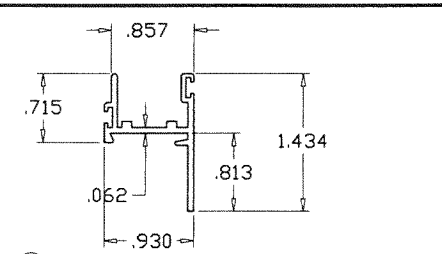
2 FRAME SILL



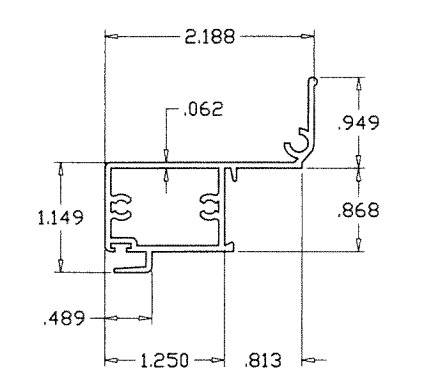
10 SILL TRACK



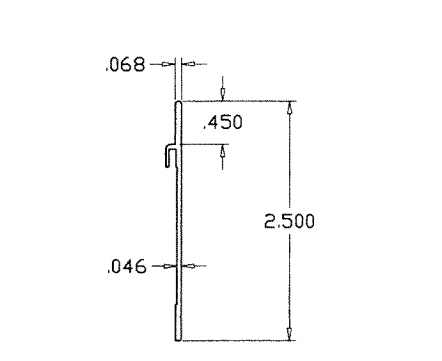
3 FRAME JAMB



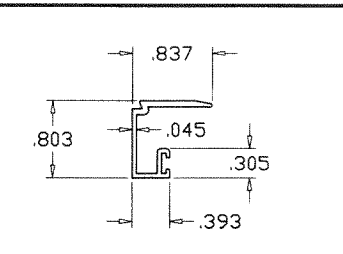
7 VENT TOP/BOTTOM RAIL



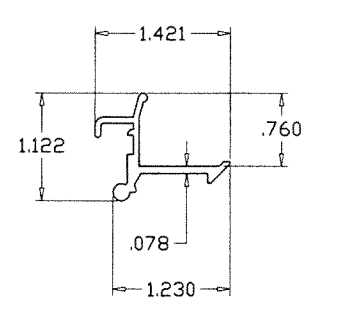
8 JAMB STILE



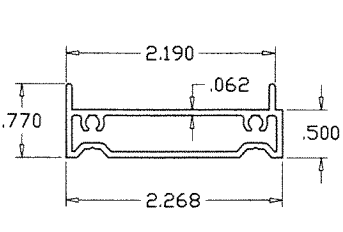
11 SILL RISER



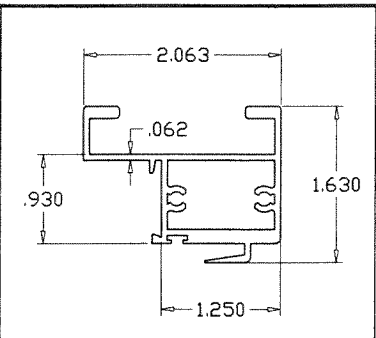
9 GLAZING BEAD



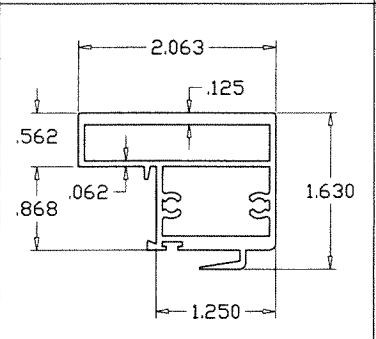
12 VENT LATCH



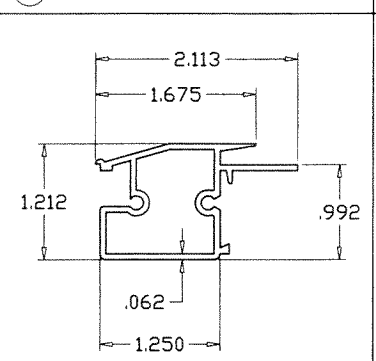
27 FLUSH FRAME ADAPTER



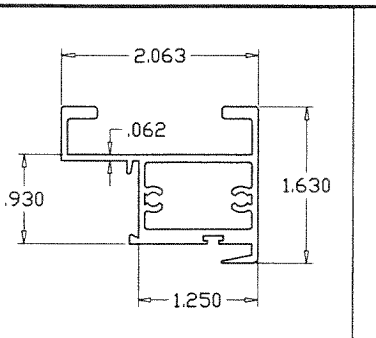
6 H.D. MEETING RAIL AT SPRING LATCHES



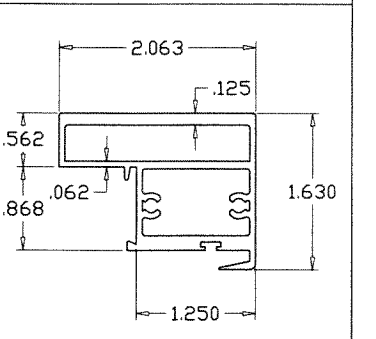
6.1 H.D. MEETING RAIL AT SPRING LATCHES



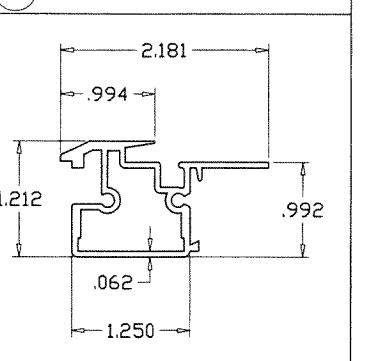
5 FIXED RAIL AT SPRING LATCHES



6A H.D. MEETING RAIL AT SWEEP LATCHES

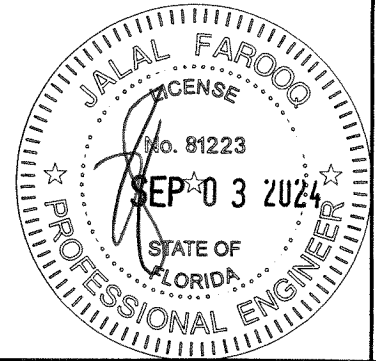


6A.1 H.D. MEETING RAIL AT SWEEP LATCHES



5A FIXED RAIL AT SWEEP LATCHES

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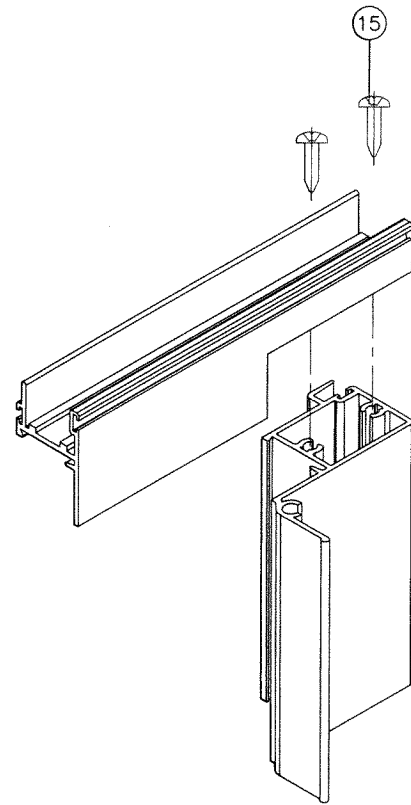
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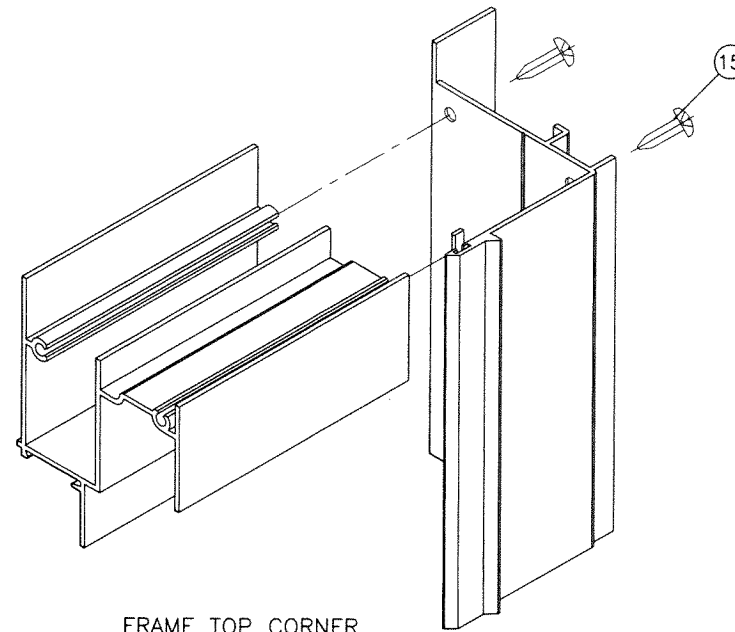
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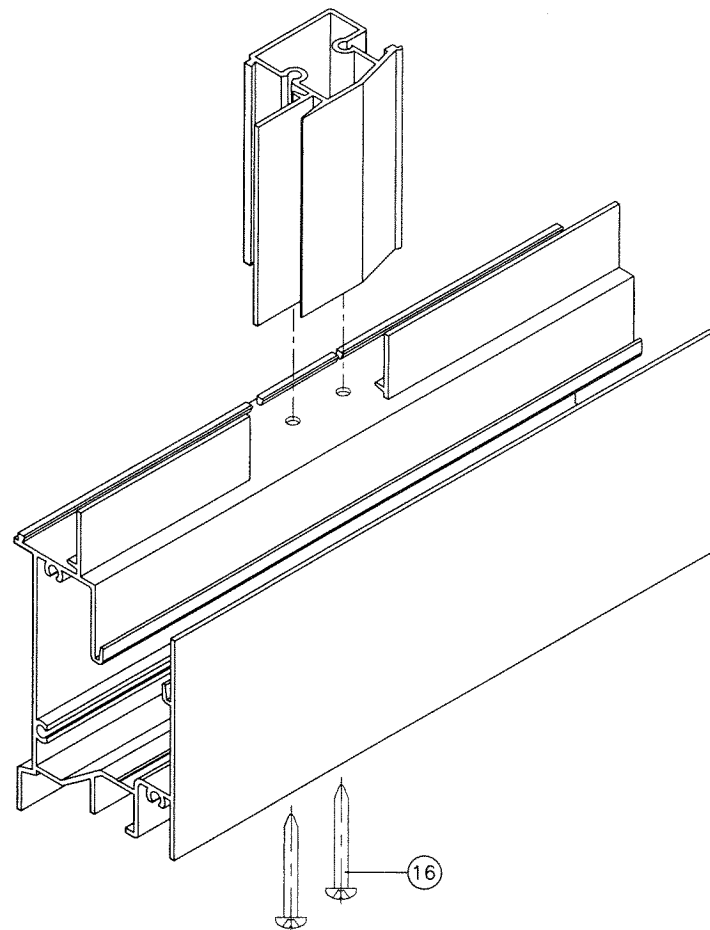
drawing no.
W04-101
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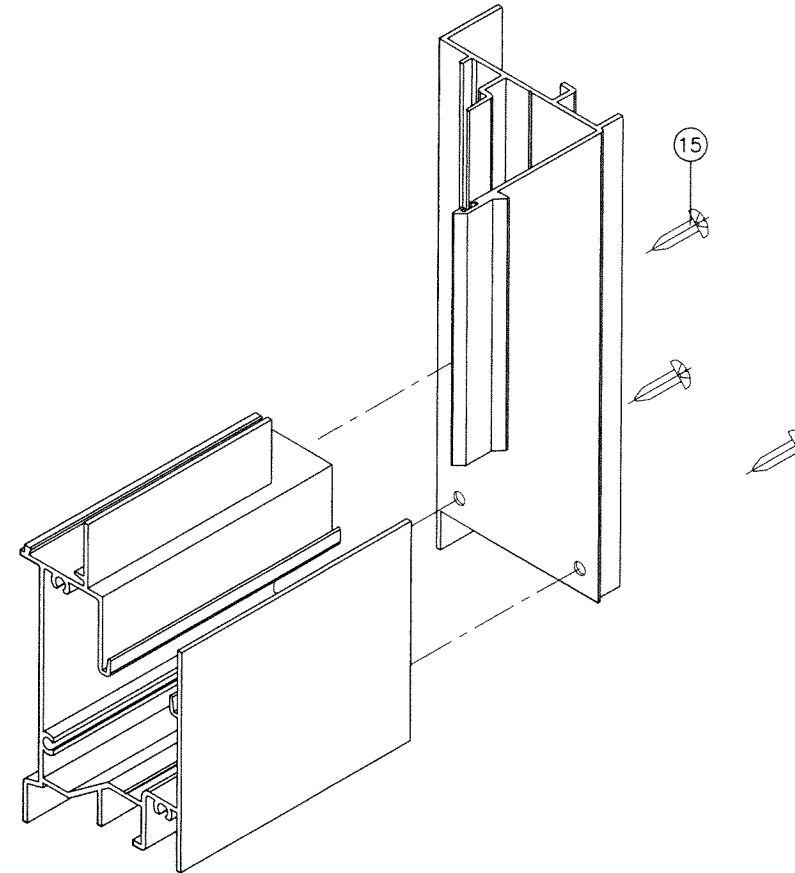
VENT TOP/BOTTOM CORNERS



FRAME TOP CORNER

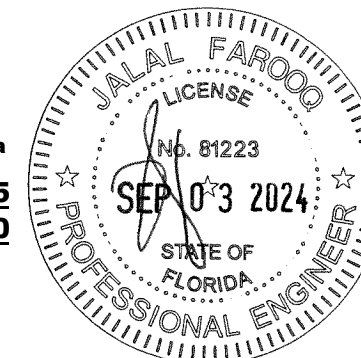


FIXED MTG. RAIL CORNER



FRAME BOTTOM CORNER

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 Miami-Dade Product Control



af c
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no	date	by	description
G	10.09.17		UPDATED TO 2017 FBC
H	11.05.20		UPDATED TO 2020 FBC
I	07.06.23		NO CHANGE THIS SHEET
J	08.09.24		NO CHANGE THIS SHEET

date: 11-26-04
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W04-101
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