



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

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/building](http://www.miamidade.gov/building)

E.S. Windows, LLC  
3550 NW 49<sup>th</sup> 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 "2000/2050" Aluminum Horizontal Sliding Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W03-75**, titled "Series-2000/2050 Alum. Horiz. Sliding Wdw. (L.M.I.)", sheets 1, 1.1, 2 and 3 through 9 of 9, dated 08/27/03, with revision **K** dated 11/05/20, 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. **20-1202.06** 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.**



10/19/2023

NOA No. 23-0901.06  
Expiration Date: November 06, 2024  
Approval Date: October 19, 2023

Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 03-0910.02)*
2. Drawing No. **W03-75**, titled "Series-2000/2500 Alum. Horiz. Sliding Wdw. (L.M.I.)", sheets 1, 1.1, 2 and 3 through 9 of 9, dated 08/27/03, with revision **I** dated 09/27/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 17-1114.05)*

**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, and TAS 202-94  
along with marked-up drawings and installation diagram of a horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5811**, dated 02/16/09, signed and sealed by Michael R. Wenzel, P.E.  
*(Submitted under NOA No. 09-1008.06)*
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, 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-5338** and **FTL-5475**, dated 01/17/08 and 12/20/07 respectively, signed and sealed by Carlos S. Rionda, P.E.  
*(Submitted in NOA's No. 08-0527.13 and 07-0928.13)*



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 23-0901.06  
Expiration Date: November 06, 2024  
Approval Date: October 19, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

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 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-3809** and **FTL-3804**, dated 06/16/03 and 05/15/03 respectively, signed and sealed by Joseph C. Chang, P.E.  
*(Submitted under NOA No. 03-0910.02)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)** dated 09/22/17 and updated on 07/24/20 to comply with, **FBC 7<sup>th</sup> Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-1202.06)*
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. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.
2. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/19/17, expiring on 07/08/19.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, with **FBC 7<sup>th</sup> Edition (2020)**, and of no financial interest, dated October 26, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-1202.06)*



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 23-0901.06  
Expiration Date: November 06, 2024  
Approval Date: October 19, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**F. STATEMENTS (CONTINUED)**

2. Distributor Agreement, dated 10/20/10, signed by Carla Garcia Torrente and by Andres Chamorro.  
*(Submitted under NOA No. 12-0223.46)*
3. Laboratory compliance letter for Test Report No. **FTL-5811**, issued by Fenestration Testing Laboratory, Inc., dated 08/13/09, signed and sealed by Michael R. Wenzel, P.E.  
*(Submitted under NOA No. 09-1008.06)*
4. Proposal No. **09-1583** issued by Product Control, dated 11/23/09, signed by Jaime D. Gascon, P. E.  
*(Submitted under NOA No. 09-1008.06)*
5. Laboratory compliance letter for Test Reports No. **FTL-5338** and **FTL-5475**, issued by Fenestration Testing Laboratory, Inc., dated 01/17/08 and 12/20/07, signed and sealed by Carlos S. Rionda, P.E.  
*(Submitted under NOA's No. 08-0527.13 and 07-0928.13)*
6. Laboratory compliance letter for Test Reports No.'s **FTL-3809** and **FTL-3804**, issued by Fenestration Testing Laboratory, Inc., dated 06/16/03 and 05/15/03, revised & reissued by Fenestration Testing Laboratory dated 08/10/06, all signed and sealed by Joseph C. Chan, P.E.  
*(Submitted under NOA No. 03-0910.02)*

**G. OTHERS**

1. Notice of Acceptance No. **14-0923.10**, issued to ES Windows, LLC, for their Series "2000/2050" Aluminum Horizontal Sliding Window – L.M.I., approved on 02/05/15 and expiring on 11/06/18.



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 23-0901.06  
Expiration Date: November 06, 2024  
Approval Date: October 19, 2023

**E.S. Windows, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W03-75**, titled “Series-2000/2500 Alum. Horiz. Sliding Wdw. (L.M.I.)”, sheets 1, 1.1, 2 and 3 through 9 of 9, dated 08/27/03, with revision **K** dated 07/07/2023, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, 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. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 07/04/28.
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.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)** and **FBC 8<sup>th</sup> Edition (2023)**, and of no financial interest, dated August 29, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Letter from consultant Al-Farooq Corporation, on behalf of **E.S. Windows, LLC**, requesting a 1-year extension to allow time to perform verification test, dated 08/29/23, signed and sealed by Jalal Farooq, P.E.
3. Testing agreement letter, dated 08/28/23 between QAI Laboratories and **E.S. Windows, LLC**, issued by QAI Laboratories and signed by Lusinda Delgado, Technical Report Writer.

**G. OTHERS**

1. Notice of Acceptance No. **20-1202.06**, issued to ES Windows, LLC, for their Series “2000/2050” Aluminum Horizontal Sliding Window – L.M.I., approved on 02/04/2021 and expiring on 11/06/23.
2. This is a one-year approval, subjected to successful verification test, the final approval will be issued for a total of 5 years.



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 23-0901.06  
Expiration Date: November 06, 2024  
Approval Date: October 19, 2023



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

### SERIES-2000/2050 ALUM HORIZ. SLIDING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER  
CHARTS SHOWN ON SHEETS 2 & 3.

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 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.

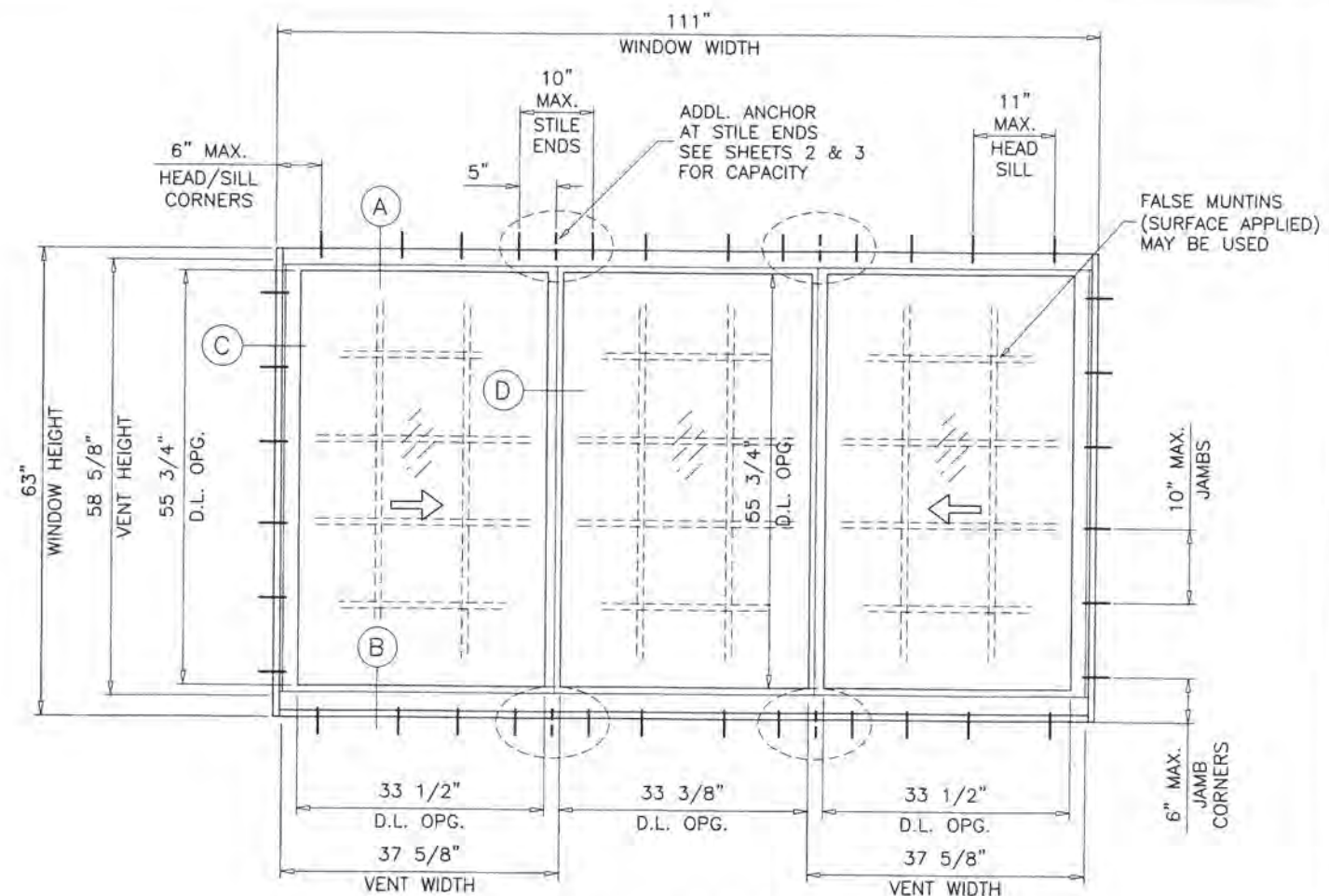
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

LAMINATED GLASS  
LARGE MISSILE IMPACT

PRODUCT REVISED  
as complying with the Florida  
Building Code  
NOA-No. 23-0901.06

Expiration Date 11/06/2024

By   
Miami-Dade Product Control

JUL 07 2023



SERIES-2000/2050 ALUM HORIZ. SLIDING 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
G	05.15.12		REV. PER PERA COMMENTS
H	09.16.14		UPDATED TO 2014 FBC
I	09.27.17		UPDATED TO 2017 FBC
J	11.05.20		UPDATED TO 2020 FBC
K	07.07.23		UPDATED TO 2023 FBC

date: 08-27-03  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.

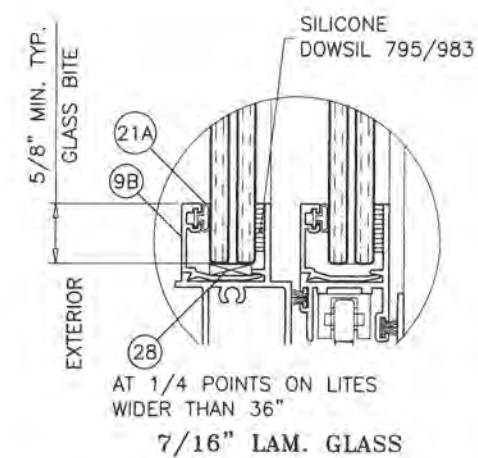
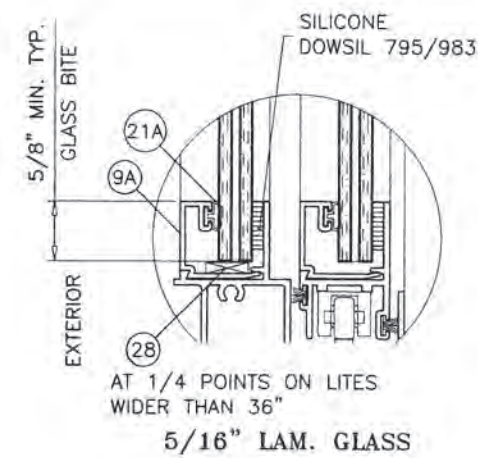
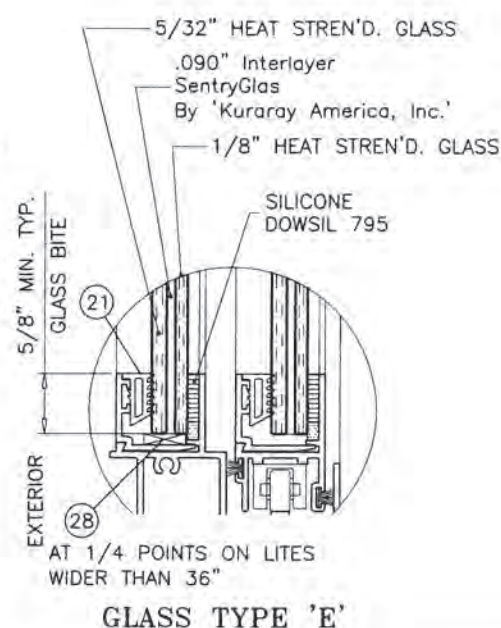
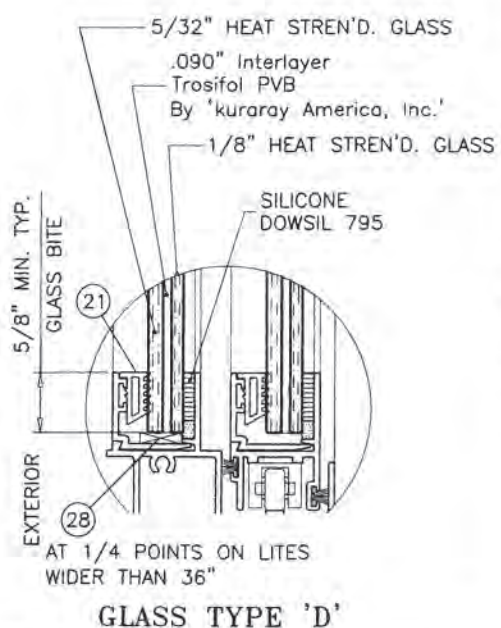
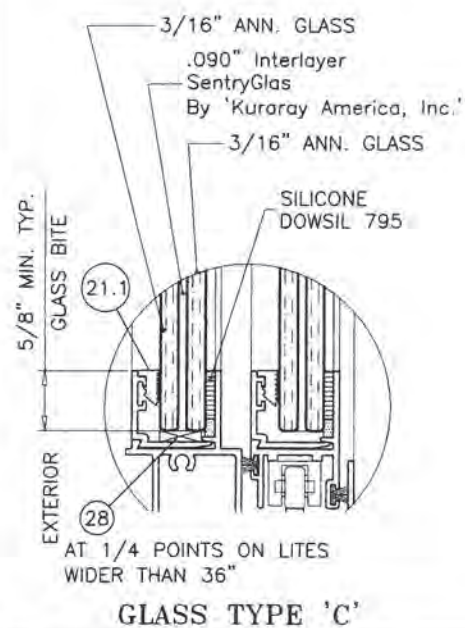
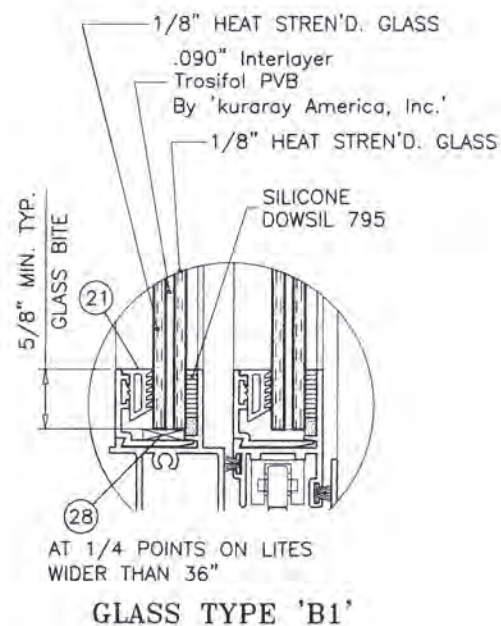
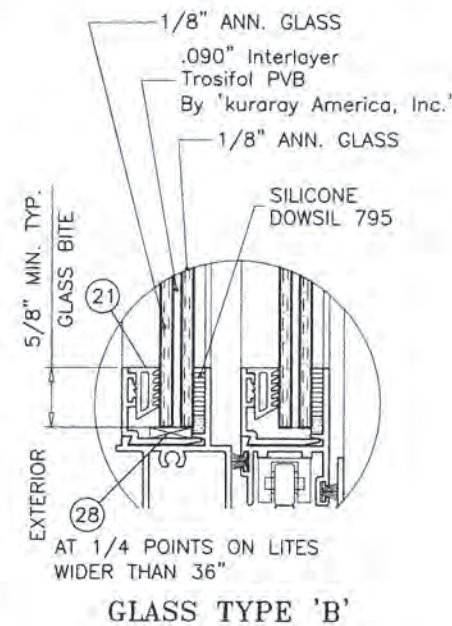
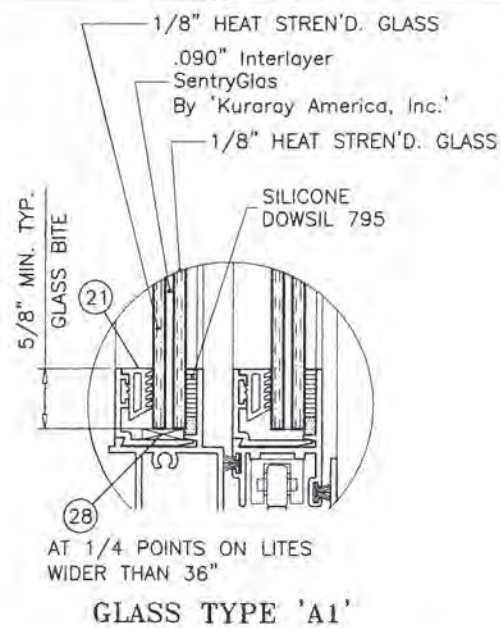
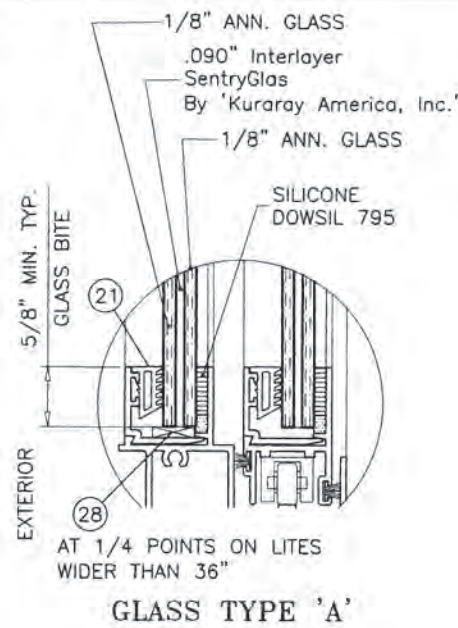
W03-75

sheet 1 of 9

**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)

COMP-ANL\W03-75ES





### ALT. GLAZING OPTIONS

SQUARE GLAZING STOP CAN BE USED WITH ALL GLASS TYPES SHOWN ON THIS SHEET.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0901.06

Expiration Date 11/06/2024

By   
Miami-Dade Product Control



**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-2000/2050 ALUM HORIZ. SLIDING 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
	G	05.15.12		NO CHANGE THIS SHEET
	H	09.16.14		UPDATED TO 2014 FBC
	I	09.27.17		UPDATED TO 2017 FBC
	J	11.05.20		UPDATED TO 2020 FBC
	K	07.07.23		NO CHANGE THIS SHEET

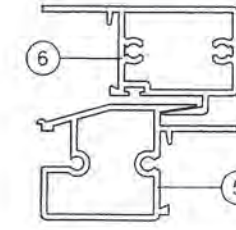
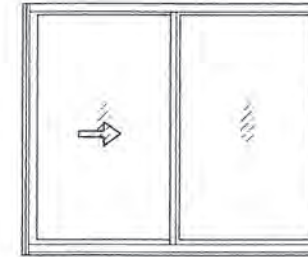
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chk. by:

drawing no.  
**W03-75**  
sheet 1.1 of 9

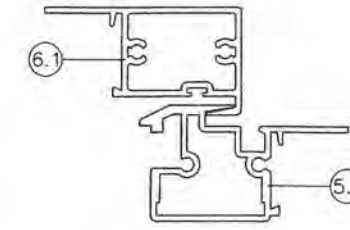


DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) SERIES 2000/2050												
WINDOW DIMS. WIDTH HEIGHT		A	STD. ANCHOR SPACING								ADDL. ANCHOR	
			STD. MTG. RAIL (FRAME SILL *1, 2, 3 & 4) SEE DETAILS BELOW FOR EXT(+) LOAD LIMITATIONS				H.D. MTG. RAIL (SILL *3 & 4) **				H.D. MTG. RAIL (SILL *3 & 4) **	
			GLASS TYPE 'A' GLASS TYPE 'B'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'D' GLASS TYPE 'E'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'D' GLASS TYPE 'E'	
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"	26" (3)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
53-1/8"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
74"		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
26-1/2"	38-3/8" (3)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
53-1/8"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
74"		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
26-1/2"	50-5/8" (4)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
37"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
53-1/8"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
74"		8	-	-	70.0	90.0	70.0	80.0	80.0	90.0	-	-
26-1/2"	63" (5)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
37"		4	58.9	67.3	70.0	90.0	70.0	80.0	80.0	90.0	-	-
53-1/8"		6	42.6	48.7	70.0	86.6	70.0	80.0	80.0	90.0	-	-
74"		8	-	-	-	-	-	-	75.3	75.3	80.0	90.0
24"	24" (2)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
36"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
48"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
60"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
72"		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
24"	36" (3)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
36"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
48"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
60"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
72"		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
24"	48" (4)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
36"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
48"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
60"		6	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
72"		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
24"	60" (5)	3	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
36"		4	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	-	-
48"		6	54.2	61.9	70.0	90.0	70.0	80.0	80.0	90.0	-	-
60"		6	45.1	51.5	70.0	87.3	70.0	80.0	80.0	90.0	-	-
72"		8	-	-	70.0	78.7	70.0	78.7	80.0	82.7	80.0	90.0

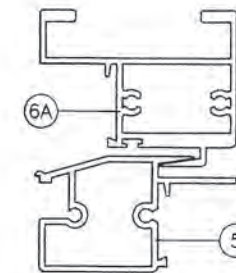
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SEE DETAILS BELOW FOR EXT(+) LOAD LIMITATIONS



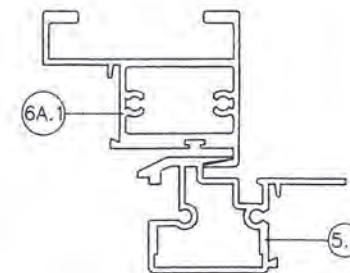
STD. MTG. RAILS  
S-2000



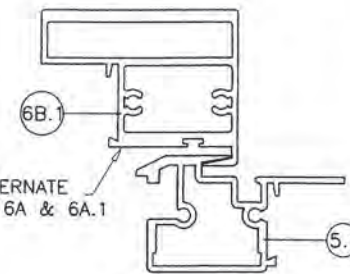
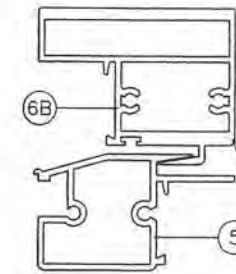
STD. MTG. RAILS  
S-2050



H.D. MTG. RAILS  
S-2000



H.D. MTG. RAILS  
S-2050

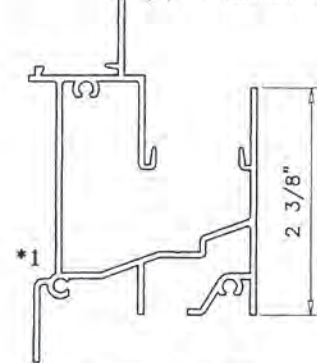


H.D. MTG. RAILS  
S-2000

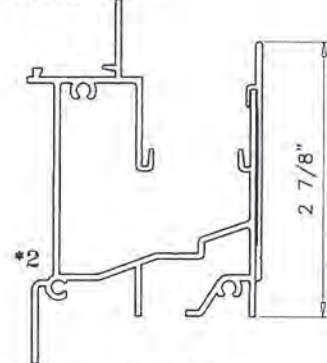
H.D. MTG. RAILS  
S-2050

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

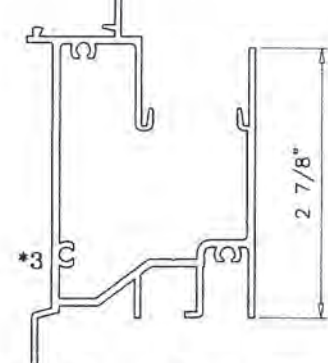
A = NO. OF ANCHORS PER HEAD & SILL  
( ) = NO. OF ANCHORS PER JAMB



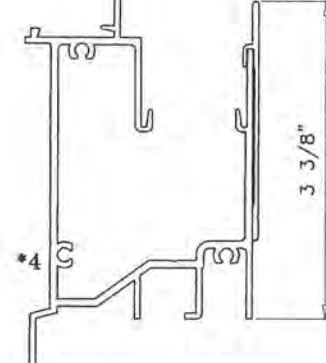
STD. SILL WITHOUT RISER  
LIMIT EXT.(+) LOADS TO 53.3 PSF



STD. SILL WITH RISER  
LIMIT EXT.(+) LOADS TO 70.0 PSF



HI-RISE SILL WITHOUT RISER  
LIMIT EXT.(+) LOADS TO 67.5 PSF



HI-RISE SILL WITH RISER  
LIMIT EXT.(+) LOADS TO 80.0 PSF

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0901.06

Expiration Date 11/06/2024

By   
Miami-Dade Product Control



**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\W03-75ES

SERIES-2000/2050 ALUM. HORIZ. SLIDING 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
	G	05.15.12		REV. PER PERA COMMENTS
	H	09.16.14		UPDATED TO 2014 FBC
	I	09.27.17		UPDATED TO 2017 FBC
	J	11.05.20		UPDATED TO 2020 FBC
	K	07.07.23		NO CHANGE THIS SHEET

date: 08-27-03  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W03-75**  
sheet 2 of 9

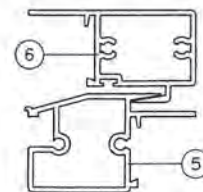


DESIGN LOAD CAPACITY – PSF (XOX SIZES) SERIES 2000/2050												
WINDOW DIMS.		A	STD. ANCHOR SPACING								ADDL. ANCHOR	
			STD. MTG. RAIL (FRAME SILL *1, 2, 3 & 4) SEE DETAILS BELOW FOR EXT(+) LOAD LIMITATIONS						H.D. MTG. RAIL (SILL *3 & 4)**		H.D. MTG. RAIL (SILL *3 & 4)**	
			GLASS TYPE 'A' GLASS TYPE 'B'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'D' GLASS TYPE 'E'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'D' GLASS TYPE 'E'	
			EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
WIDTH	HEIGHT											
74"	26" (3)	9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
106–1/4"		12	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
111"		12	–	–	–	–	–	–	80.0	90.0	–	–
74"	38–3/8" (3)	9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
106–1/4"		12	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
111"		12	–	–	–	–	–	–	80.0	90.0	–	–
74"	50–5/8" (4)	9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
106–1/4"		12	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
111"		12	–	–	–	–	–	–	80.0	90.0	–	–
74"	63" (5)	9	45.4	51.9	70.0	90.0	70.0	80.0	80.0	90.0	–	–
106–1/4"		12	–	–	–	–	–	–	77.1	77.1	80.0	90.0
111"		12	–	–	–	–	–	–	75.3	75.3	80.0	90.0
72"	24" (2)	9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
84"		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
96"		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
108"		12	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
72"	36" (3)	9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
84"		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
96"		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
108"		12	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
72"	48" (4)	9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
84"		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
96"		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
108"		12	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	–	–
72"	60" (5)	9	54.2	61.9	70.0	90.0	70.0	80.0	80.0	90.0	–	–
84"		9	47.6	54.4	70.0	90.0	70.0	80.0	80.0	90.0	–	–
96"		9	–	–	70.0	83.9	70.0	80.0	80.0	88.2	80.0	90.0
108"		12	–	–	70.0	78.7	70.0	78.7	80.0	82.7	80.0	90.0

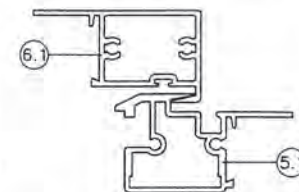
\*\*  
SEE DETAILS BELOW  
FOR EXT(+) LOAD LIMITATIONS

DESIGN LOAD CAPACITY – PSF (XOX SIZES) SERIES 2000/2050											
STD. ANCHOR SPACING											
WINDOW DIMS.		A	STD. MTG. RAIL (FRAME SILL *1, 2, 3 & 4) SEE DETAILS BELOW FOR EXT(+) LOAD LIMITATIONS						H.D. MTG. RAIL (SILL *3 & 4)*		
			GLASS TYPE 'A' GLASS TYPE 'B'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A1' GLASS TYPE 'B1' GLASS TYPE 'D' GLASS TYPE 'E'		
			EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	
74"	26"	8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
106–1/4"	(3)	11	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
111"		12	–	–	–	–	–	–	80.0	90.0	
74"	38–3/8"	8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
106–1/4"	(3)	11	–	–	70.0	90.0	70.0	80.0	80.0	90.0	
111"		12	–	–	–	–	–	–	80.0	90.0	
74"	50–5/8"	8	–	–	70.0	90.0	70.0	80.0	80.0	90.0	
74"	63"	8	–	–	–	–	–	–	80.0	90.0	
74"	(5)										
72"	24"	8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
84"		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
96"		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
108"		11	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
72"	36"	8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
84"		8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
96"		9	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
108"		11	–	–	70.0	90.0	70.0	80.0	80.0	90.0	
72"	48"	8	70.0	80.0	70.0	90.0	70.0	80.0	80.0	90.0	
84"		8	–	–	70.0	90.0	70.0	80.0	80.0	90.0	
96"		9	–	–	–	–	–	–	80.0	90.0	
72"	60" (5)	8	–	–	70.0	90.0	70.0	80.0	80.0	90.0	

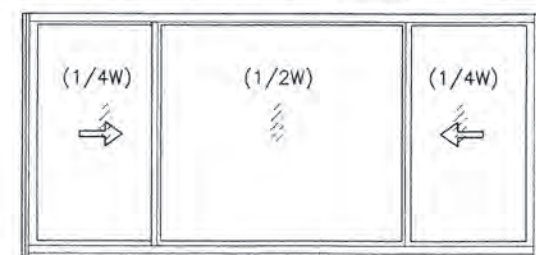
A = NO. OF ANCHORS PER HEAD & SILL  
( ) = NO. OF ANCHORS PER JAMB



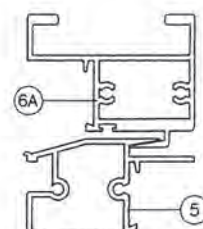
STD. MTG. RAILS  
S-2000



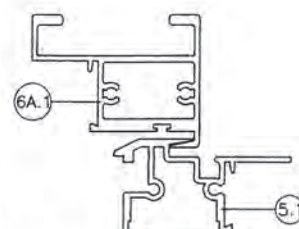
STD. MTG. RAILS  
S-2050



OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH



H.D. MTG. RAILS  
S-2000



H.D. MTG. RAILS  
S-2050

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

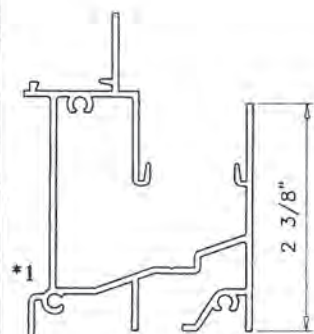


A = NO. OF ANCHORS PER HEAD & SILL  
( ) = NO. OF ANCHORS PER JAMB

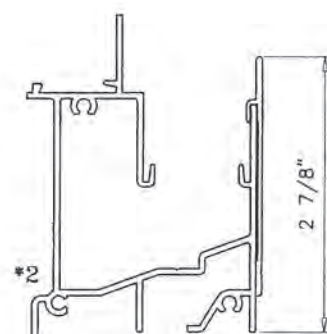
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0901.06

Expiration Date 11/06/2024

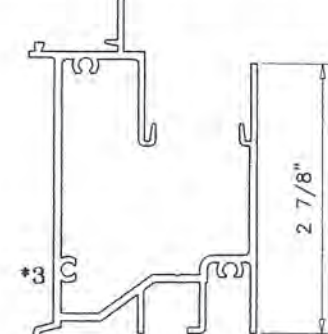
By   
Miami-Dade Product Control



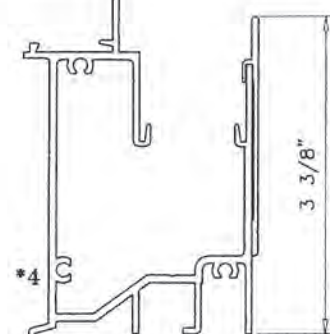
STD. SILL WITHOUT RISER  
LIMIT EXT.(+) LOADS TO 53.3 PSF



STD. SILL WITH RISER  
LIMIT EXT.(+) LOADS TO 70.0 PSF



HI-RISE SILL WITHOUT RISER  
LIMIT EXT.(+) LOADS TO 66.7 PSF



HI-RISE SILL WITH RISER  
LIMIT EXT.(+) LOADS TO 80.0 PSF

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

SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)

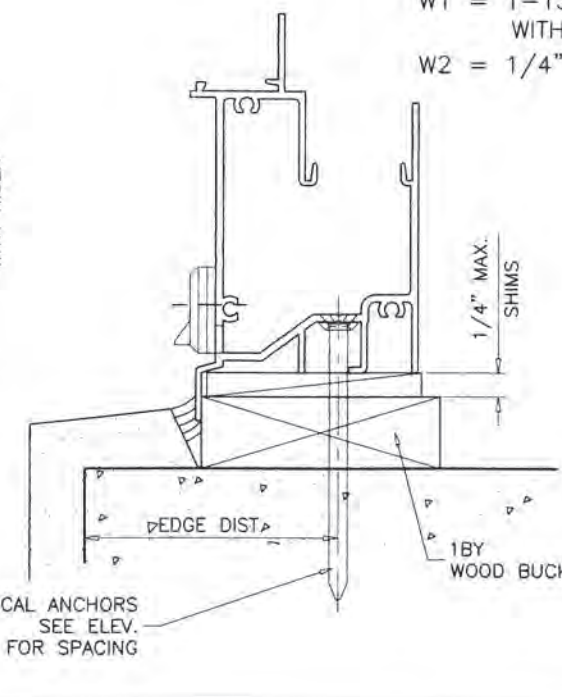
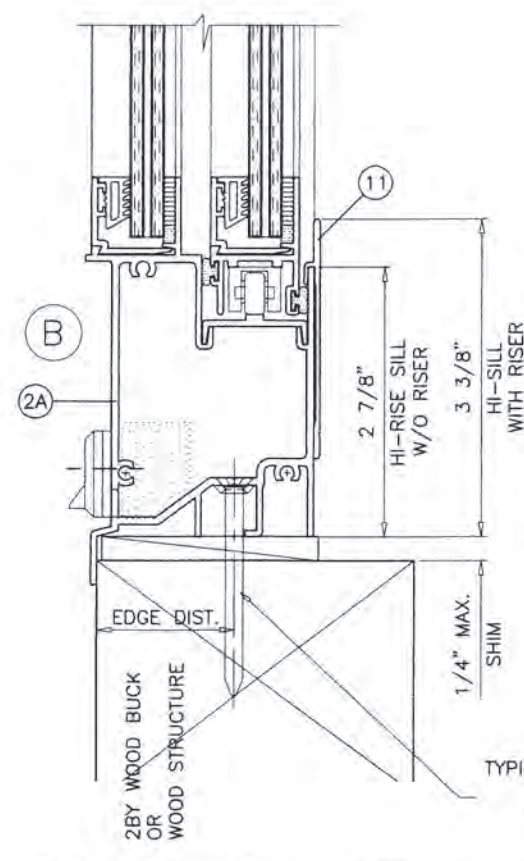
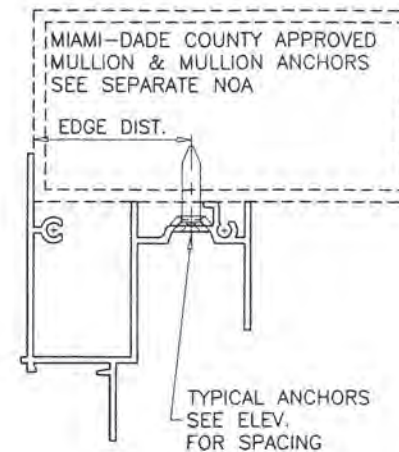
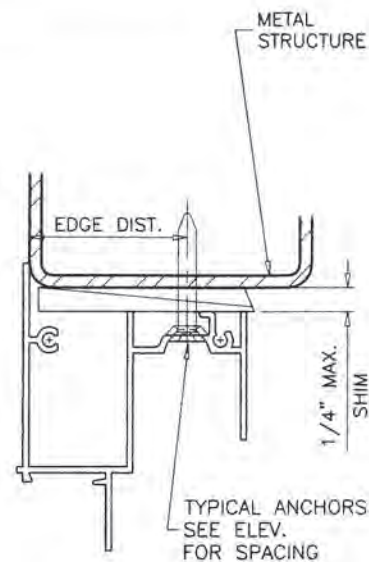
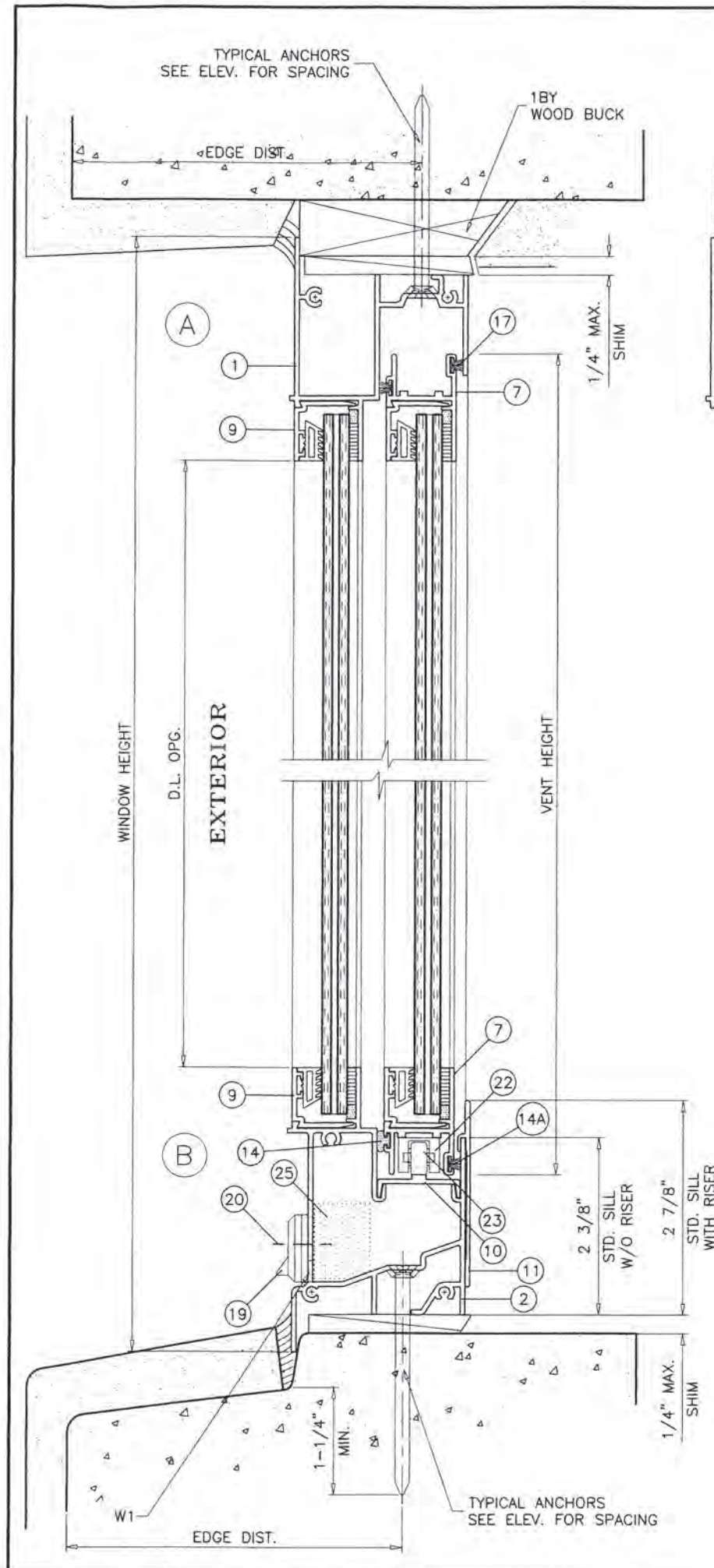
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	description
G	05.15.12	REV. PER PERA COMMENTS
H	08.16.14	UPDATED TO 2014 FBC
I	09.27.17	UPDATED TO 2017 FBC
J	11.05.20	UPDATED TO 2020 FBC
K	07.07.23	NO CHANGE THIS SHEET

date: 08-27-03  
scale: 1/2"=1'-0"  
dr. by: TARIO  
chk. by:

drawing no.  
**W03-75**  
sheet 3 of 9





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'** ( $F_u=164$  KSI,  $F_y=148$  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. ( $F_y = 36$  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

SERIES-2000  
 SERIES-2050

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 23-0901.06

Expiration Date 11/06/2024

By   
 Miami-Dade Product Control



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

SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
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revisions:	no	date	description
	C	05.15.12	REV. PER PERA COMMENTS
	H	09.16.14	UPDATED TO 2014 FBC
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	K	07.07.23	NO CHANGE THIS SHEET

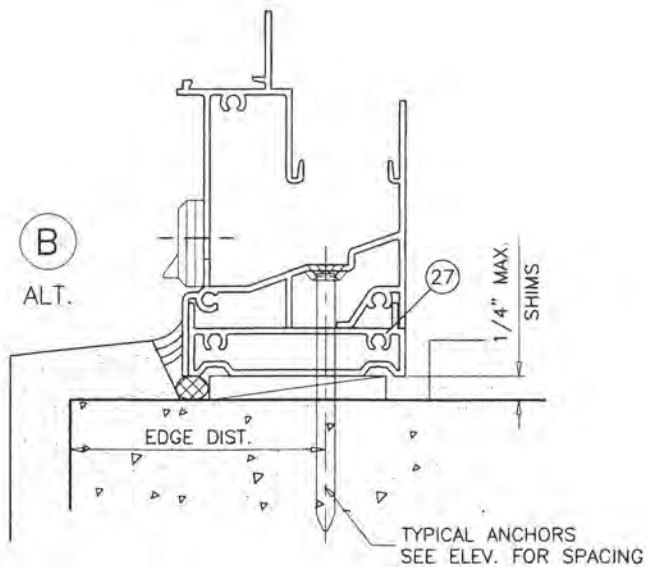
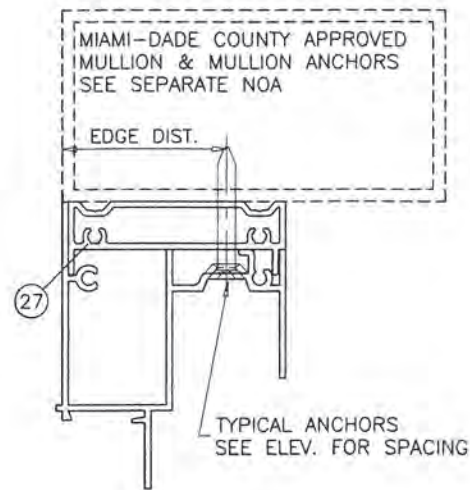
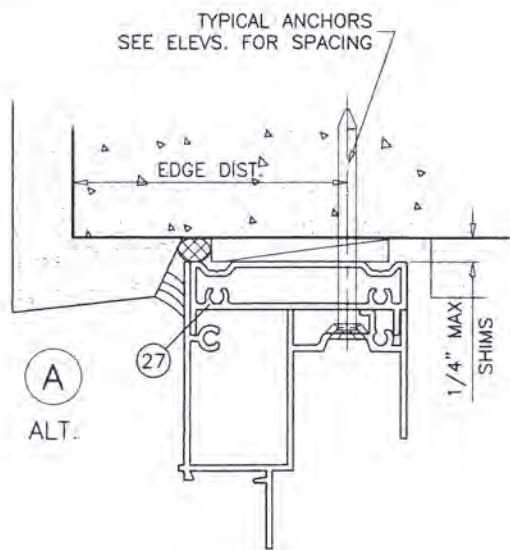
date: 08-27-03	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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drawing no.	W03-75
sheet	4 of 9

COMP-ANL\W03-75ES





ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1003	1	FRAME HEAD	6063-T6	-
2	ES2001	1	STD. FRAME SILL	6063-T6	-
2A	ES2012	1	HI-RISE FRAME SILL	6063-T6	-
3	ES2003	1	FRAME JAMB	6063-T6	-
5	ES1005	1/ VENT	FIXED RAIL (S-2000)	6063-T6	-
5.1	ES1051	1/ VENT	FIXED RAIL (S-2050)	6063-T6	-
6	ES1004	1/ VENT	STD. VENT MEETING RAIL (S-2000)	6063-T6	-
6A	ES2004	1/ VENT	H.D. VENT MEETING RAIL (S-2000)	6063-T6	-
6.1	ES1052	1/ VENT	STD. VENT MEETING RAIL (S-2050)	6063-T6	-
6A.1	ES1053	1/ VENT	H.D. VENT MEETING RAIL (S-2050)	6063-T6	-
6B	ES-2004A	1/ VENT	H.D. VENT MEETING RAIL (S-2050)	6063-T6	ALTERNATE TO 6A
6B.1	ES-1053A	1/ VENT	H.D. VENT MEETING RAIL (S-2050)	6063-T6	ALTERNATE TO 6A.1
7	ES1007	2/ VENT	TOP AND BOTTOM RAIL	6063-T5	-
8	ES1006	1/ VENT	JAMB STILE	6063-T5	-
9	ES1008	AS REQD.	GLAZING BEAD	6063-T5	-
9A	ES1103	AS REQD.	SQUARE GLAZING BEAD (5/16" GLASS)	6063-T5	-
9B	ES1017	AS REQD.	SQUARE GLAZING BEAD (7/16" GLASS)	6063-T5	-
10	ES2002	1	SILL TRACK INSERT	6063-T5	-
11	ES2011	AS REQD.	STD. SILL RISER	6063-T5	-
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	GRADE 2 CRS	FH SMS
13	ES1012	1/ LATCH	VENT LATCH SPRING	ST. STEEL	-
14	C1B251N	AS REQD.	FOAM FILLED FABRIC W'STRIPPING	-	SCHLEGEL
15	#8 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS	P.H. SMS
16	#8 X 3"	2/ VENT	FIX. RAIL SILL SCREWS (STD. SILL END)	CRS	P.H. SMS
16A	#10 X 4"	2/ VENT	FIX. RAIL SILL SCREWS (HI-RISE SILL END)	CRS	P.H. SMS
17	W23211NG	AS REQD.	VENT & FIX. RAIL W'STRIPPING	-	ULTRAFAB
18	W23291NG	AS REQD.	FRAME JAMB W'STRIPPING	-	ULTRAFAB
19	WPHL-100	2	BAFFLE, AT 3" FROM EACH END	-	M & M PLASTICS
20	#6 X 1/2"	2/ BAFFLE	BAFFLE SCREW	-	F.H. SMS
21	ES1010	AS REQD.	GLAZING WEDGE	SOFT PVC	DUROMETER 70 SHORE 'A'
21.1	ES4013	AS REQD.	GLAZING WEDGE	SOFT PVC	DUROMETER 70 SHORE 'A'
21A	27-425	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 60 SHORE 'A'
22	ES2007	4/ VENT	ROLLER HOUSING & GUIDE	PLASTIC	-
23	ES2006	2/ VENT	ROLLER	BRASS/ST. ST.	-
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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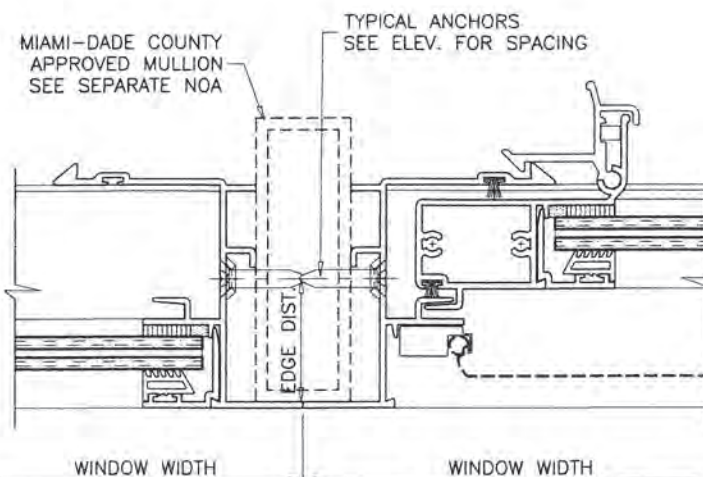
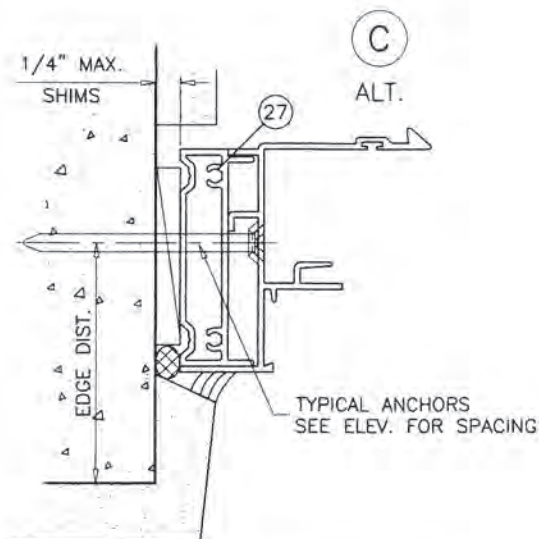
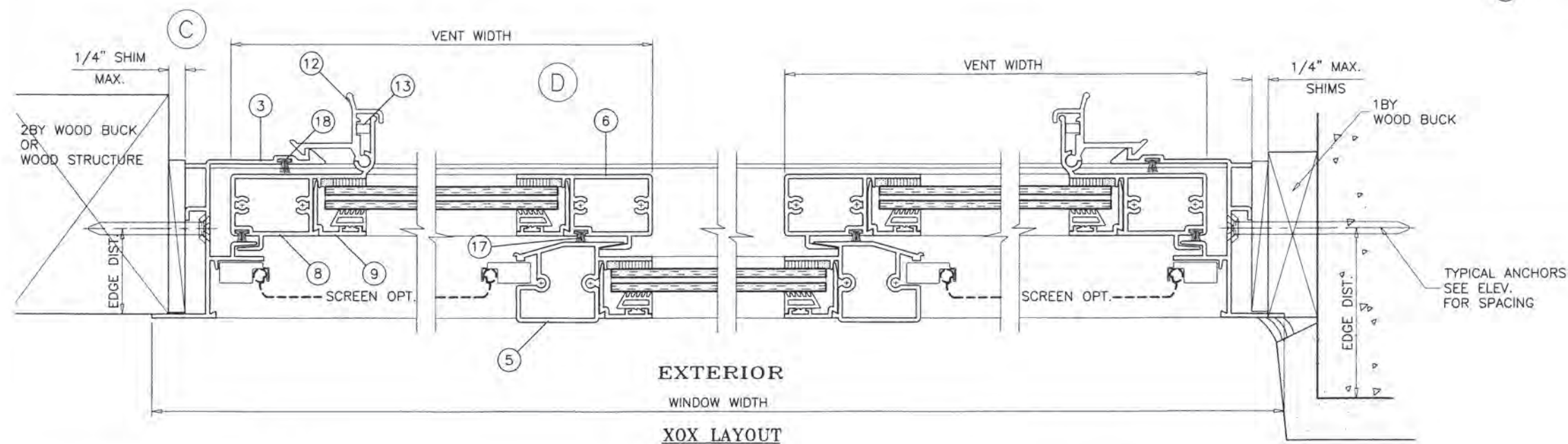
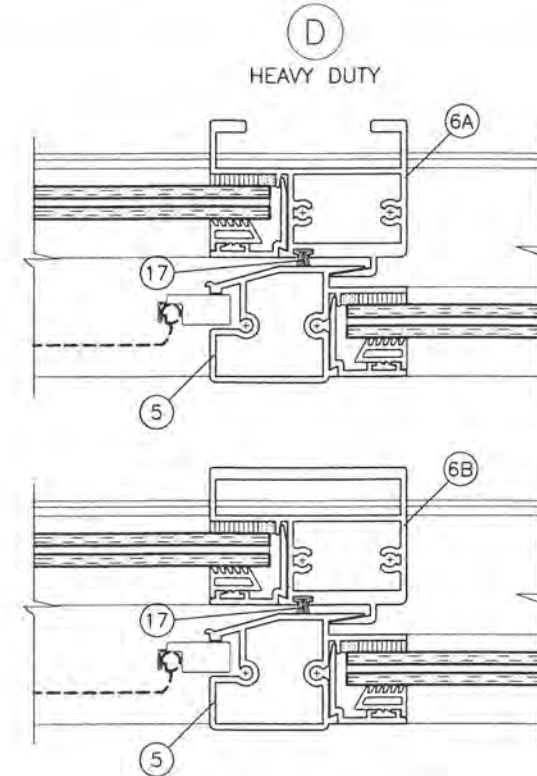
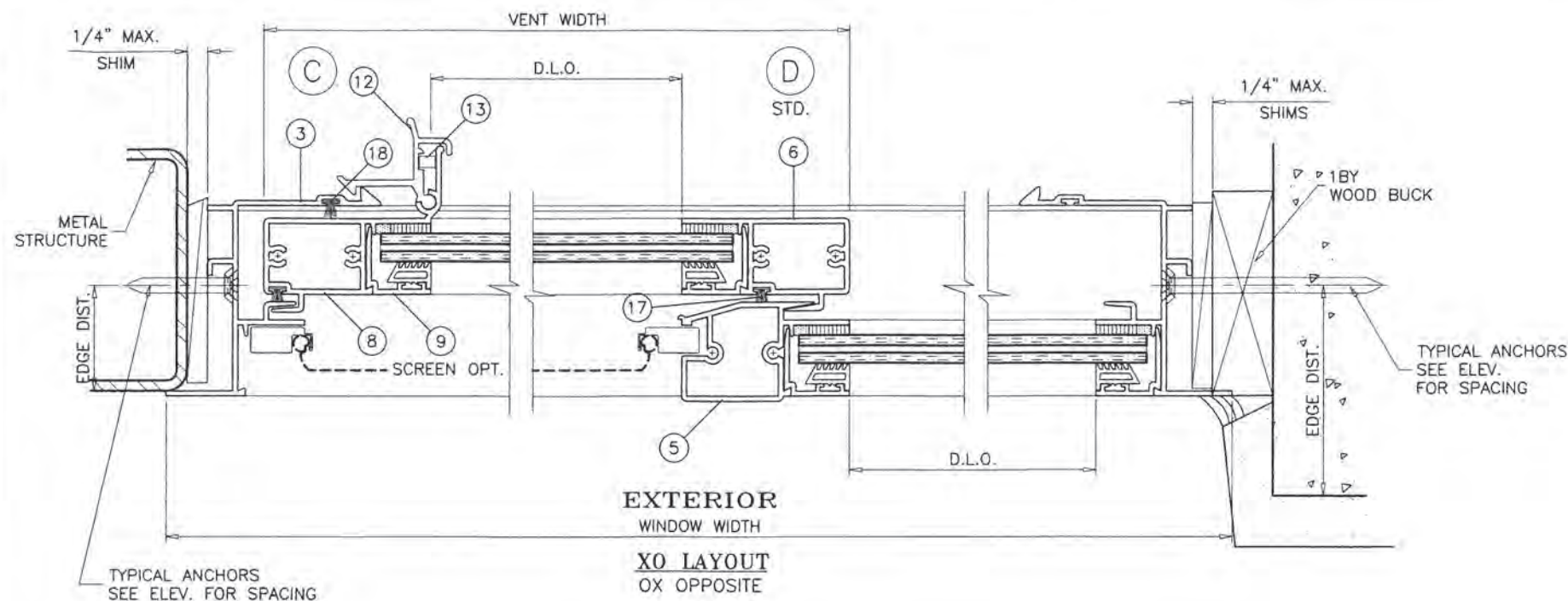


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W03-75ES

SERIES-2000/2050 ALUM. HORIZ. SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

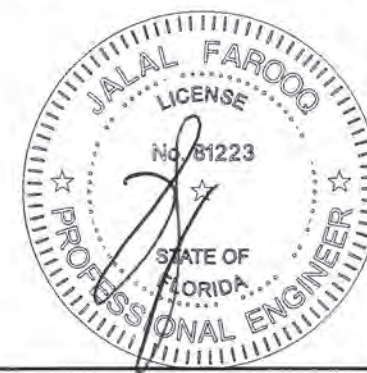
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	K	07.07.23		NO CHANGE THIS SHEET
date:	08-27-03	scale:	1/2" = 1"	dr. by: TARIQ
chk. by:				
drawing no.	W03-75	sheet	5 of 9	





**SERIES-2000**  
VENTS WITH SPRING LOADED LATCHES

**PRODUCT REVISED**  
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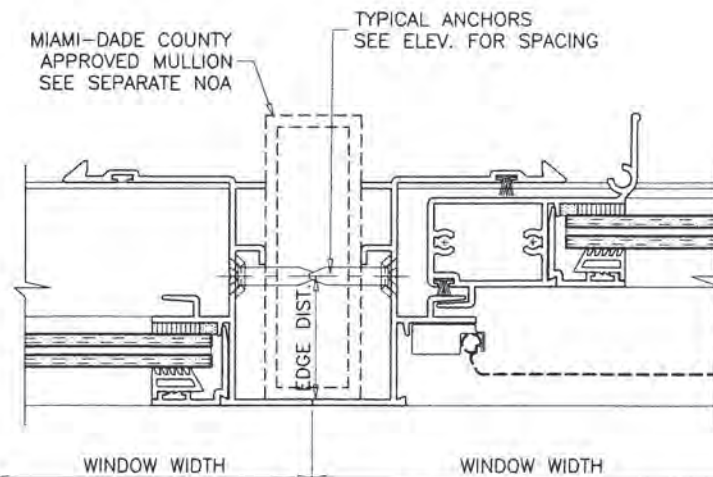
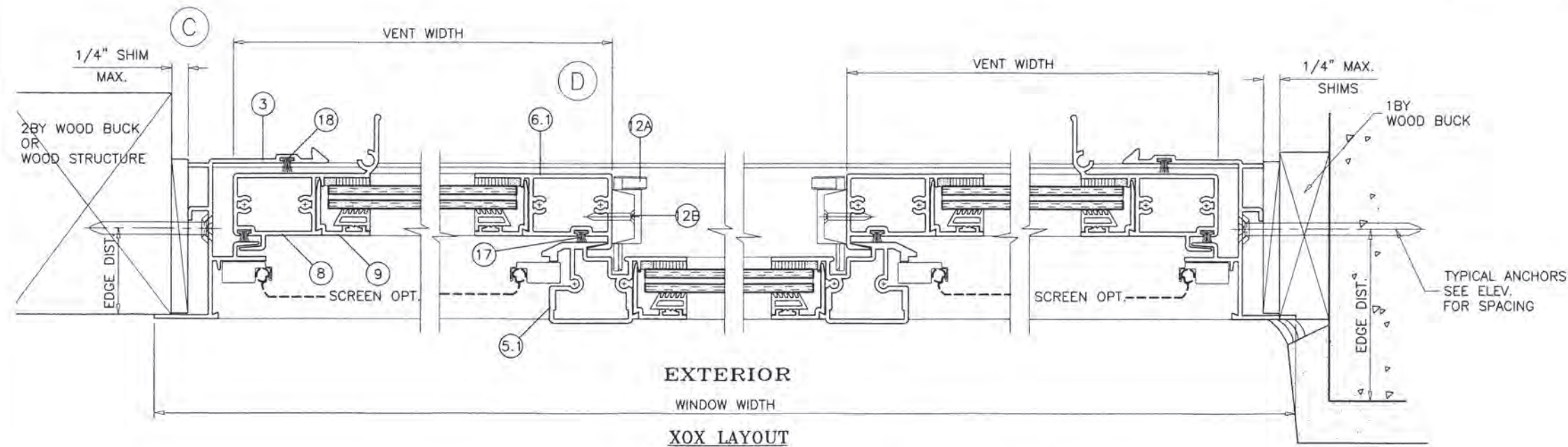
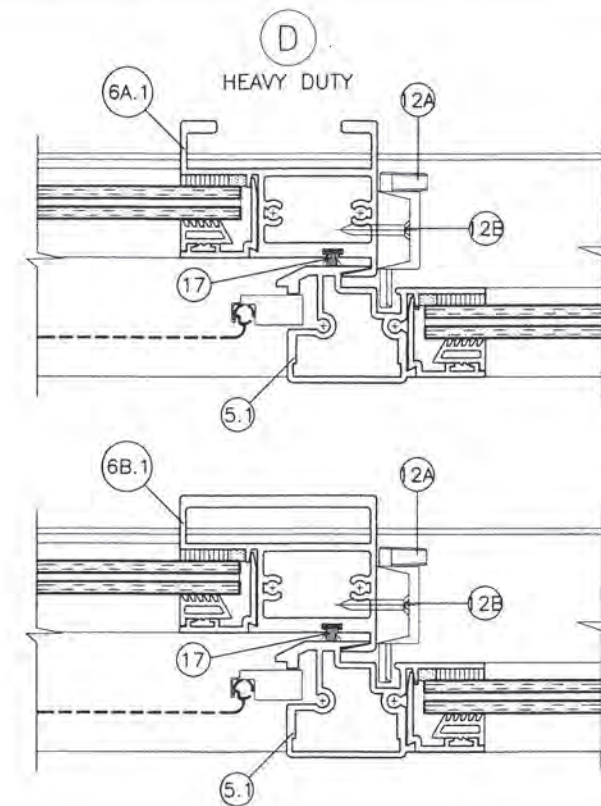
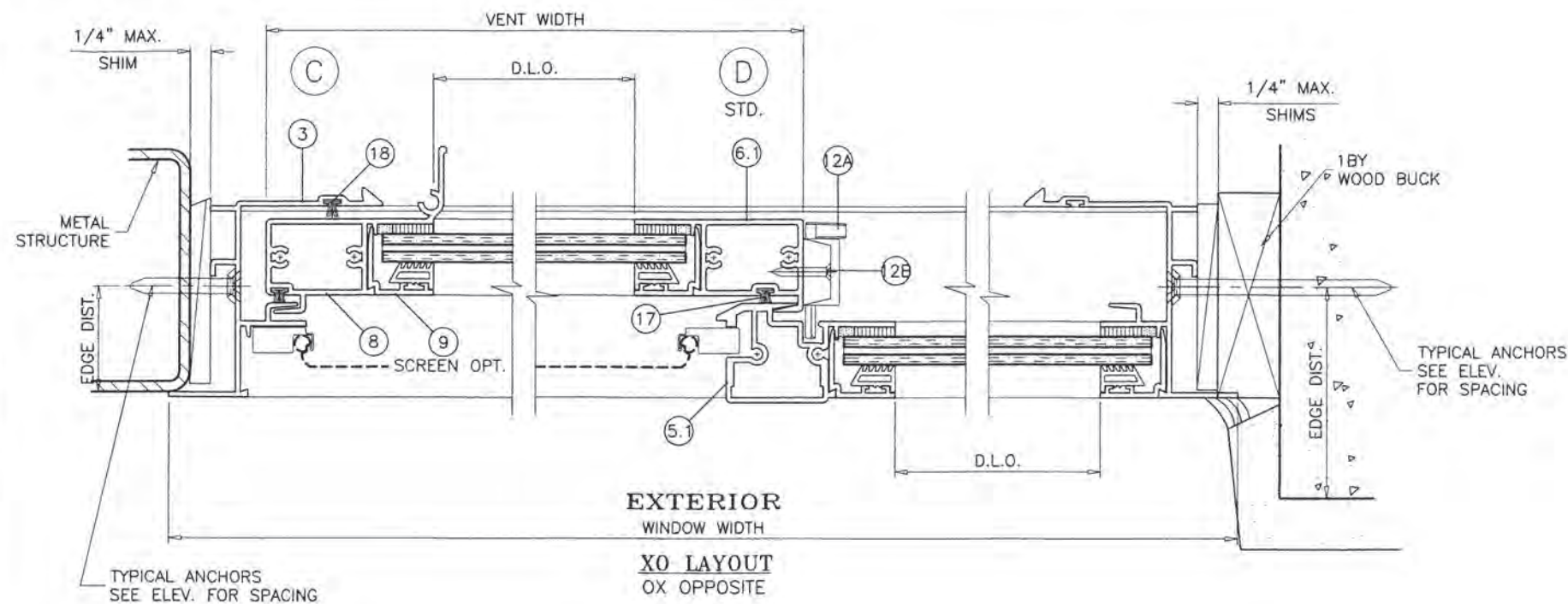
  

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dr. by:	TARIQ
chk. by:	

drawing no.	W03-75
sheet	6 of 9





**SERIES-2050**  
VENTS WITH SWEEP LATCHES

**PRODUCT REVISED**  
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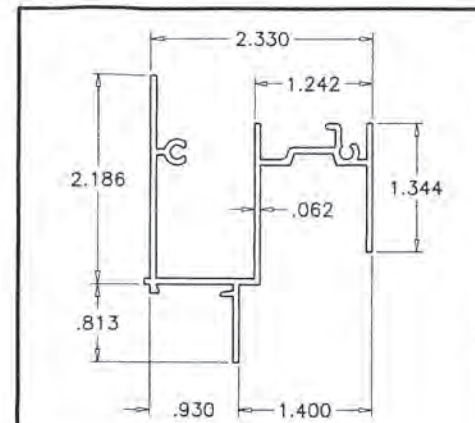
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chk. by:

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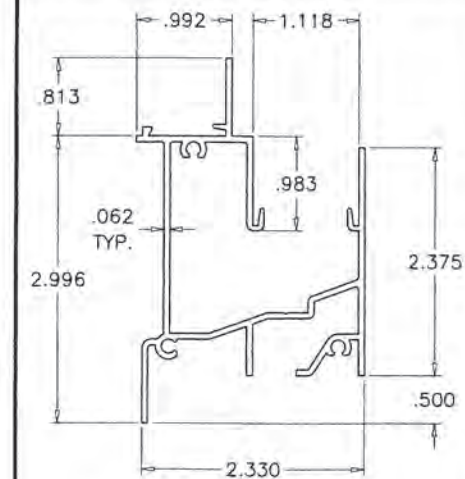
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COMP-ANL\W03-75ES

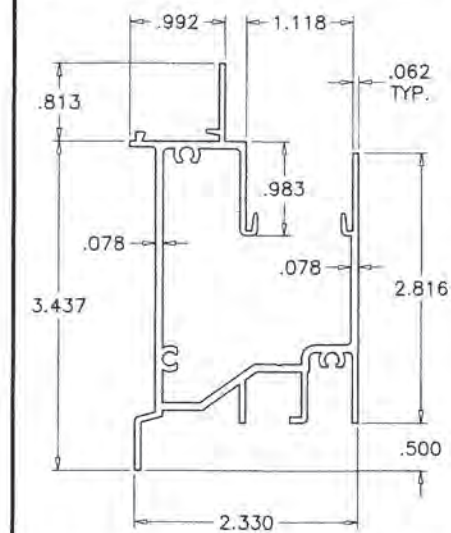




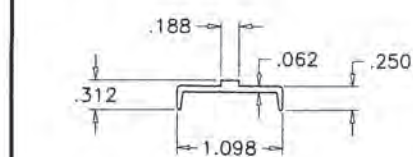
① FRAME HEAD



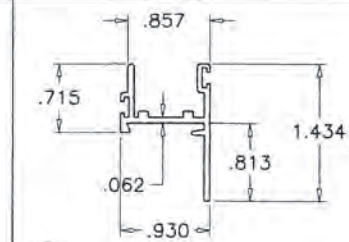
② STD. FRAME SILL



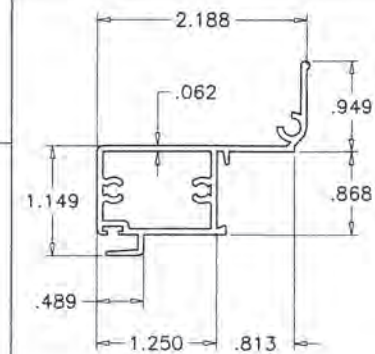
②A HI-RISE FRAME SILL



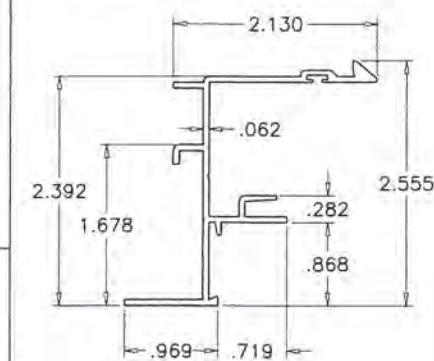
⑩ SILL TRACK



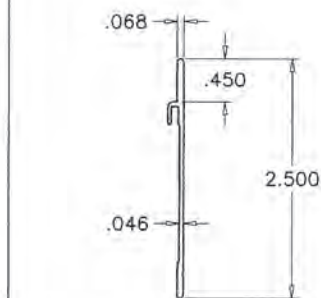
⑦ VENT TOP/BOTTOM RAIL



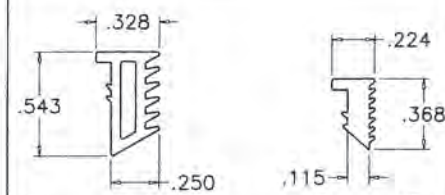
⑧ JAMB STILE



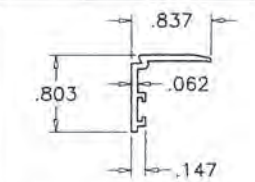
③ FRAME JAMB



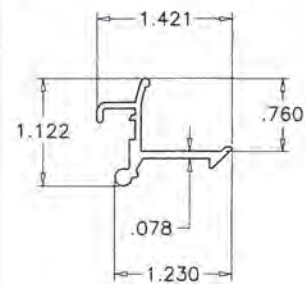
⑪ SILL RISER



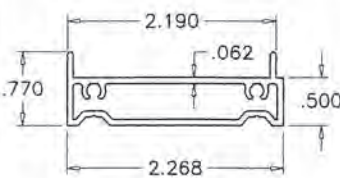
⑪ GLAZING WEDGE  
SCALE 1:1



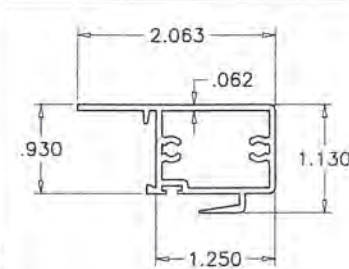
⑨ GLAZING BEAD



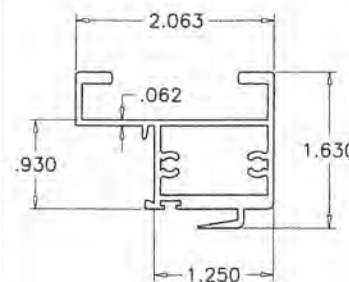
⑫ VENT LATCH



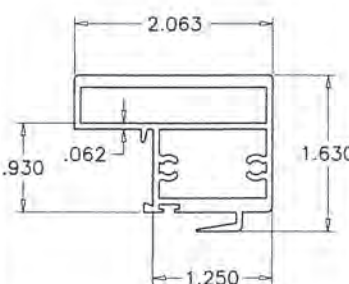
⑫ FLUSH FRAME ADAPTER



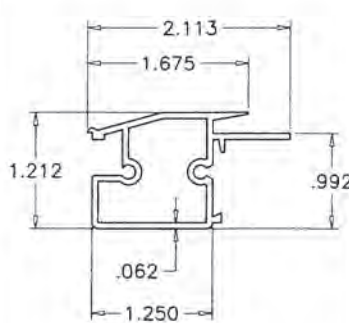
⑥ STD. MEETING RAIL  
SERIES-2000



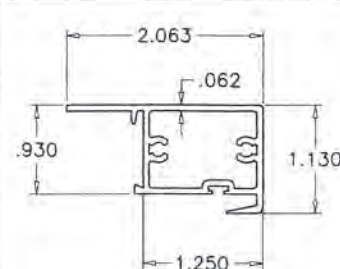
⑥A H.D. MEETING RAIL  
SERIES-2000



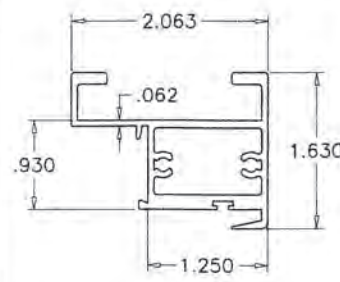
⑥B H.D. MEETING RAIL  
SERIES-2000



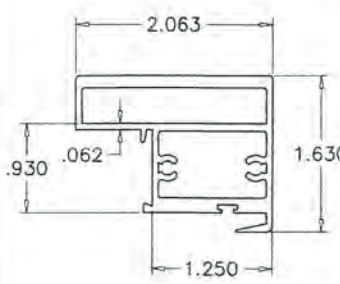
⑤ FIXED RAIL  
SERIES-2000



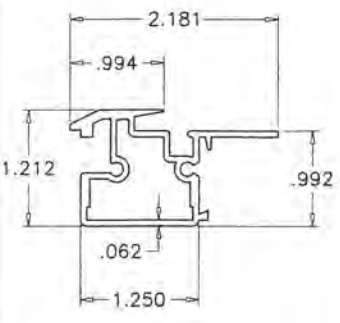
⑥.1 STD. MEETING RAIL  
SERIES-2050



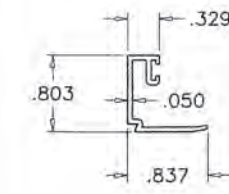
⑥A.1 H.D. MEETING RAIL  
SERIES-2050



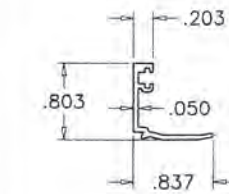
⑥B.1 H.D. MEETING RAIL  
SERIES-2050



⑤.1 FIXED RAIL  
SERIES-2050



⑨A SQUARE GLAZING STOP



⑨B SQUARE GLAZING STOP

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C.A.N. 3538

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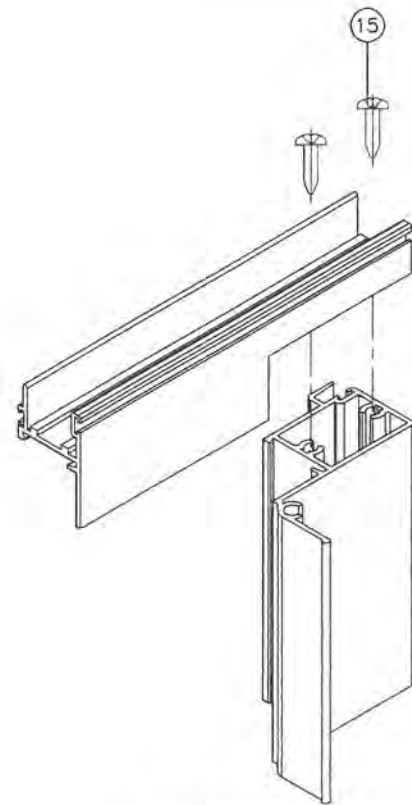
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chk. by:

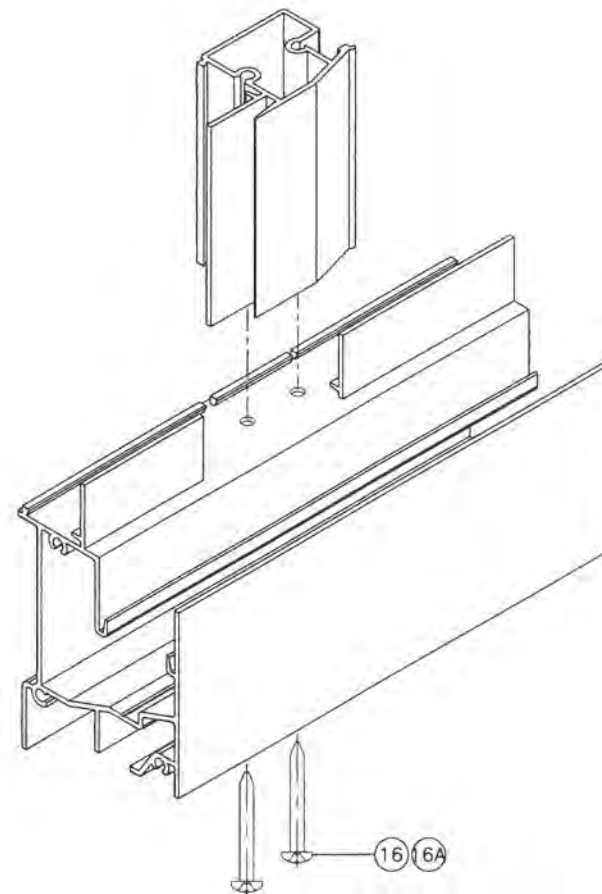
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sheet 8 of 9

COMP-ANL\W03-75ES

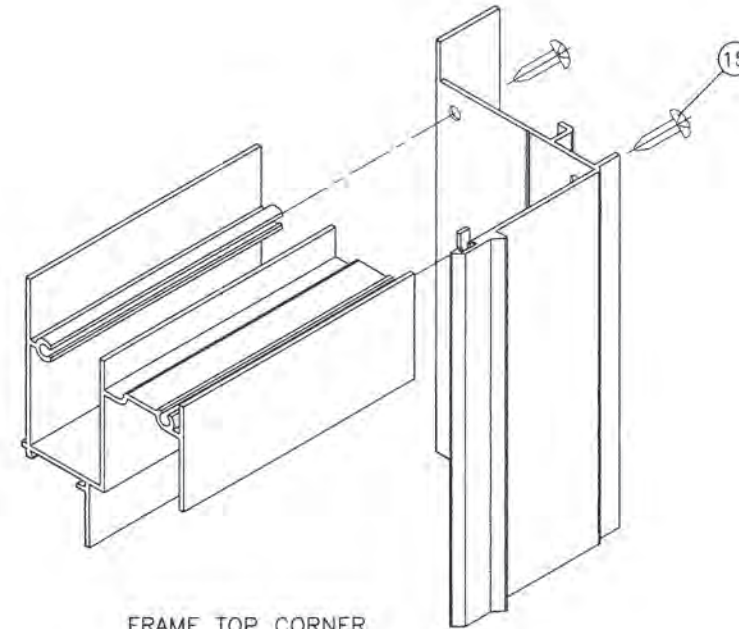




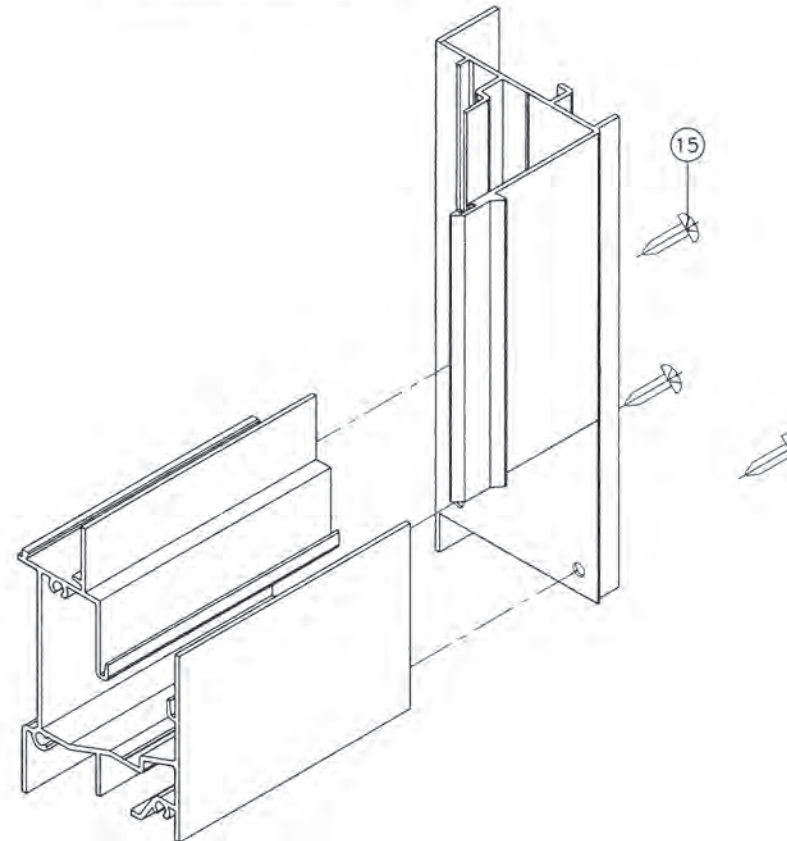
VENT TOP/BOTTOM CORNERS



FIXED MTG. RAIL CORNER



FRAME TOP CORNER



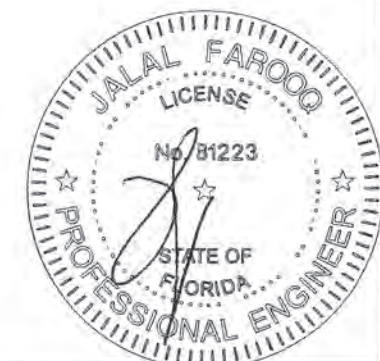
FRAME BOTTOM CORNER

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