



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 "1000/1050" Aluminum Single Hung Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W03-56**, titled "Series-1000/1050 Alum. Single Hung Wdw. (L.M.I)", sheets 1, 1.1, 2, 2.1 and 3 through 8 of 8, dated 07/31/03, with revision N, dated 07/06/23, 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.

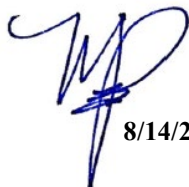
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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. **20-0915.01** 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.**



  
8/14/23

NOA No. 23-0714.14  
Expiration Date: November 06, 2028  
Approval Date: August 24, 2023  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

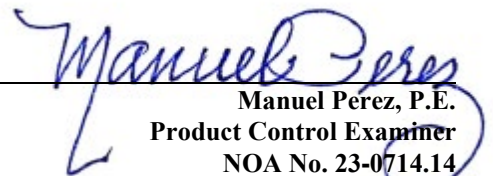
**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 03-0910.03)*
2. Drawing No. **W03-56**, titled "Series-1000/1050 Alum. Single Hung Wdw. (L.M.I)", sheets 1, 1.1, 2, 2.1 and 3 through 8 of 8, dated 07/31/03, with revision **M**, dated 07/17/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-0915.01)*

**B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-12222**, dated 07/10/20, signed and sealed by Idalmis Ortega, P.E.  
*(Submitted under NOA No. 20-0915.01)*
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, per ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-5815** and **FTL-5337**, dated 02/13/09 and 01/25/08 respectively, both signed and sealed by Michael R. Wenzel, P.E.  
*(Submitted under NOA's No. 09-1008.05 and 07-0928.14)*

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0714.14  
Expiration Date: November 06, 2028  
Approval Date: August 24, 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 ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-05-1448** and **HETI-05-1953**, dated 04/22/05 and 04/25/05 respectively, both signed and sealed by Ivonne Ghia, P.E.

***(Submitted under NOA No. 05-0720.01)***

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-3820** and **FTL-3806**, dated 06/09/03, signed and sealed by Joseph C. Chan, P.E.


***(Submitted under NOA No. 03-0910.03)***

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 7<sup>th</sup> Edition (2020)**, prepared by Al-Farooq Corporation, dated 07/24/20, signed and sealed by Jalal Farooq, P.E.  
***(Submitted under NOA No. 20-0915.01)***
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

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

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0714.14  
Expiration Date: November 06, 2028  
Approval Date: August 24, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**E. MATERIAL CERTIFICATIONS**

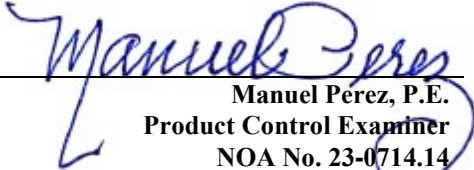
1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.

**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 July 24, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-0915.01)*
2. Laboratory compliance letter for Test Reports No. **FTL-5815** and **FTL-5337**, issued by Fenestration Testing Laboratory, Inc., dated 02/13/09 and 01/25/08 respectively, both signed and sealed by Michael R. Wenzel, P.E.  
*(Submitted under NOA's No. 09-1008.05 and 07-0928.14)*
3. Distributor Agreement, dated 04/04/16, signed by Carlos Garcia and by Andres Chamorro.  
*(Submitted under NOA No. 17-1114.09)*
4. Laboratory compliance letter for Test Reports No. **HETI-05-1448 & HETI-05-1953**, issued by Hurricane Engineering & Testing, Inc., dated 04/22/05 and 04/25/05 respectively, both signed and sealed by Iyonne Ghia, P.E.  
*(Submitted under NOA No. 05-0720.01)*
5. Laboratory compliance letter for Test Reports No. **FTL-3820** and **FTL-3806**, issued by Fenestration Testing Laboratory, Inc., dated 06/09/03, both signed and sealed by Joseph C. Chan, P.E.  
*(Submitted under NOA No. 03-0910.03)*

**G. OTHERS**

1. Notice of Acceptance No. **18-0905.07**, issued to E.S. Windows, LLC, for their Series “1000/1050” Aluminum Single Hung Window – L.M.I., approved on 10/04/18 and expiring on 11/06/23.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0714.14  
Expiration Date: November 06, 2028  
Approval Date: August 24, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W03-56**, titled “Series-1000/1050 Alum. Single Hung Wdw. (L.M.I)”, sheets 1, 1.1, 2, 2.1 and 3 through 8 of 8, dated 07/31/03, with revision N, dated 07/06/23, 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**

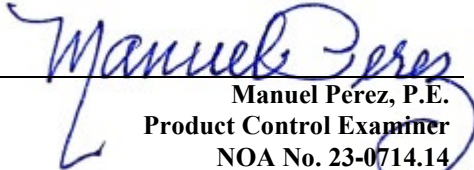
1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/15/22, expiring on 07/04/28.
2. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear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

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, with **FBC 8<sup>th</sup> Edition (2023)**, and of no financial interest, dated July 12, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **20-0915.01**, issued to E.S. Windows, LLC, for their Series “1000/1050” Aluminum Single Hung Window – L.M.I., approved on 12/17/20 and expiring on 11/06/23.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0714.14  
Expiration Date: November 06, 2028  
Approval Date: August 24, 2023



## SERIES-1000/1050 ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2 & 2.1.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG 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.

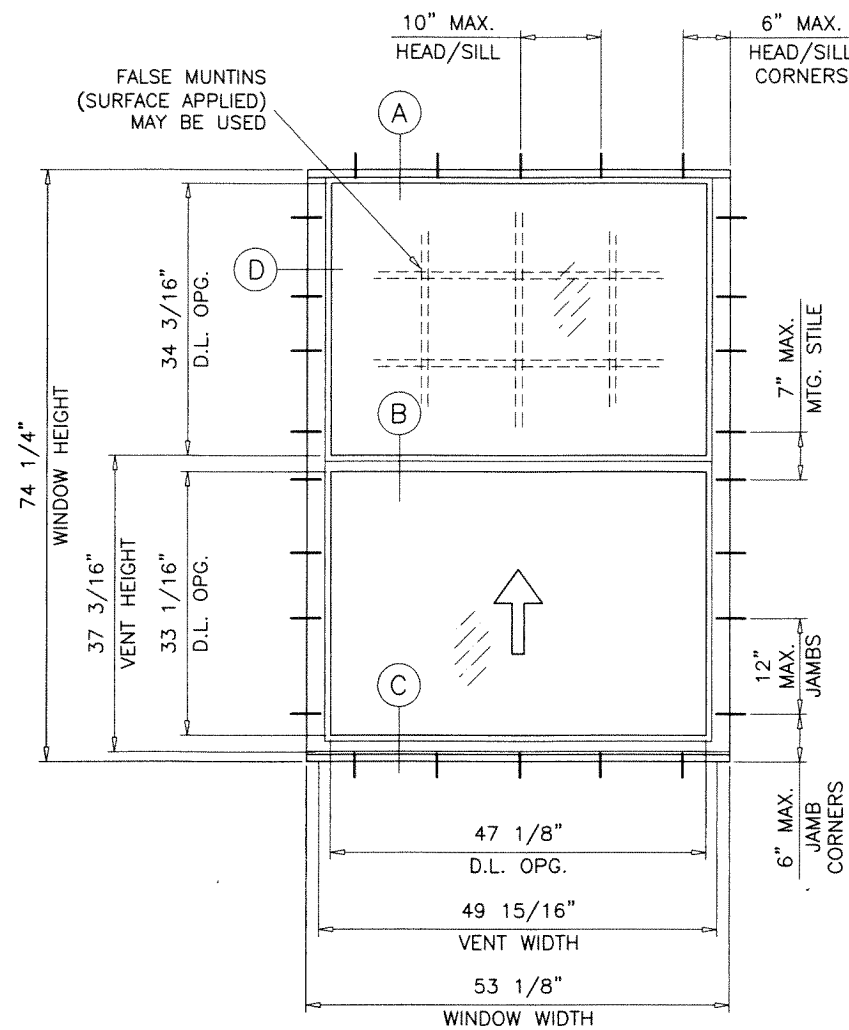
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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.

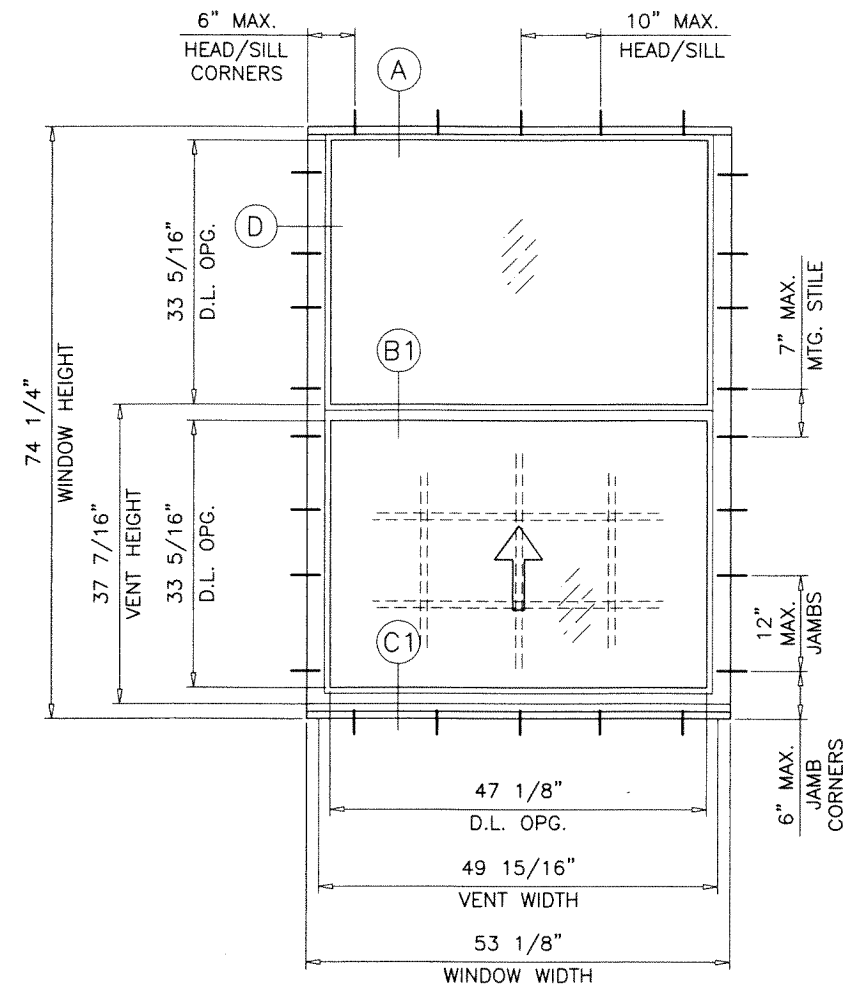
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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



**TYPICAL ELEVATION**

SERIES 1000 (STD. SILL)

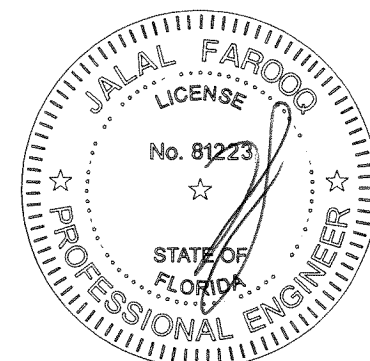


**TYPICAL ELEVATION**

SERIES 1000 (HI-RISE SILL)

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

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-0714.14**  
Expiration Date: **11/06/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

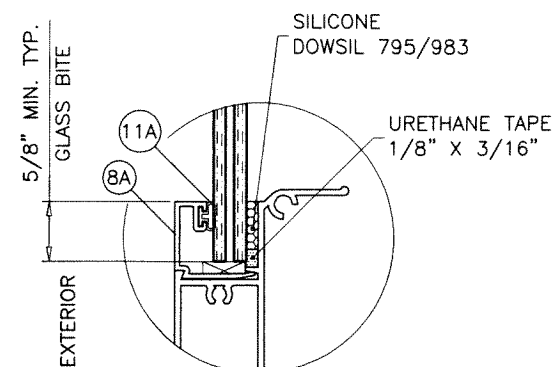
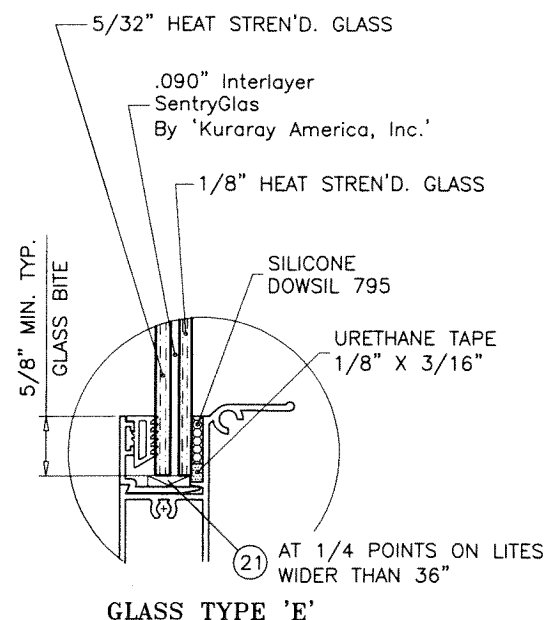
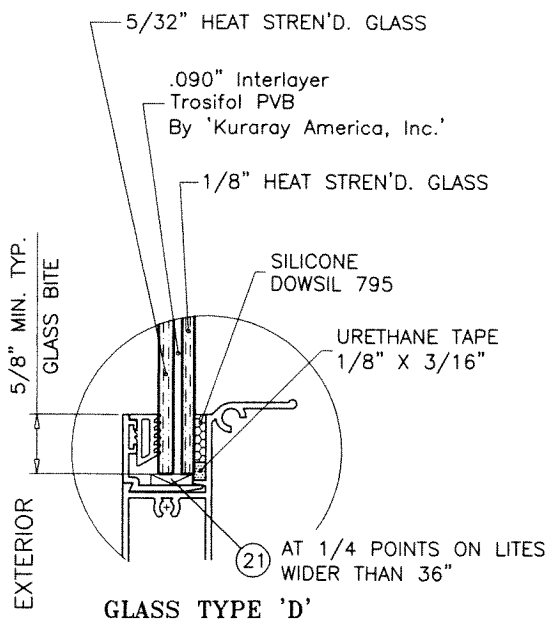
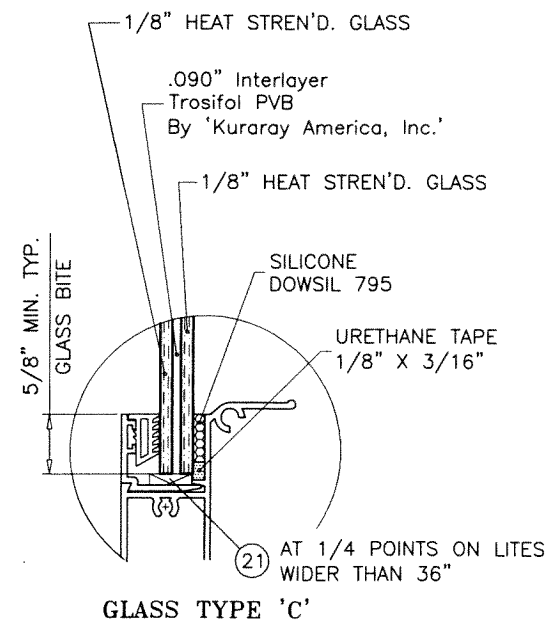
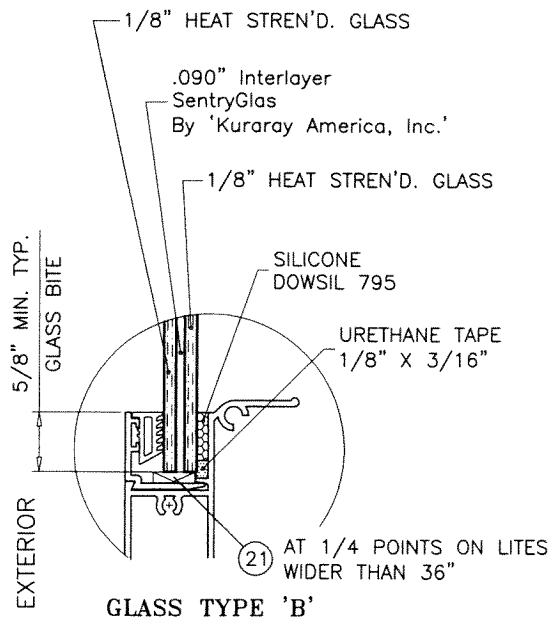
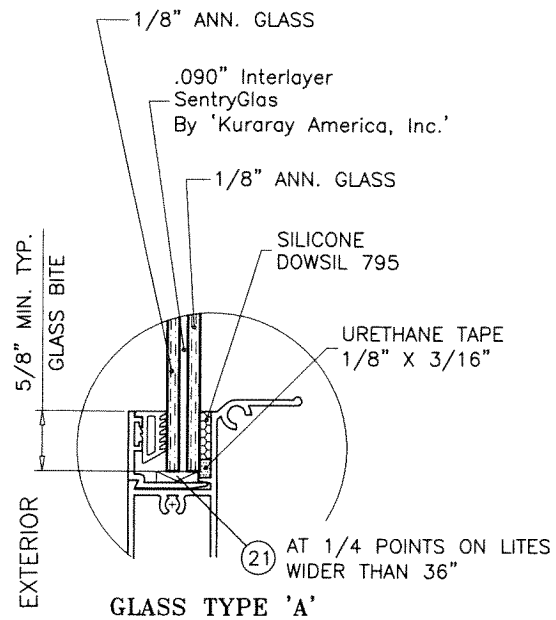


SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)

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

**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 \ W03-56FSW

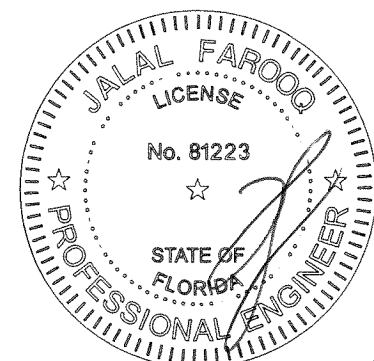
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		L	09.27.17		UPDATED TO 2017 FBC
		M	07.17.20		GENERAL REVISION
		N	07.06.23		UPDATED TO 2023 FBC
chk. by:					
drawing no.					
W03-56					
sheet 1 of 8					



**ALT. GLAZING OPTION**

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. **23-0714.14**  
Expiration Date: **11/06/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP - ANL\W03-56ESW

SERIES-1000/1050 ALUM SINGLE HUNG 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
	K	10.11.16		EDITORIAL CHANGES
	L	09.27.17		UPDATED TO 2017 FBC
	M	07.17.20		GENERAL REVISION
	N	07.06.23		NO CHANGE THIS SHEET

date: 07-31-03  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

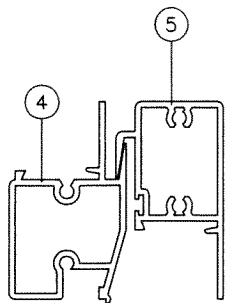
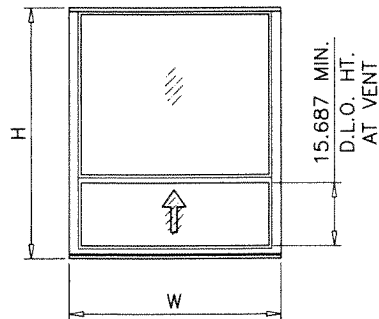
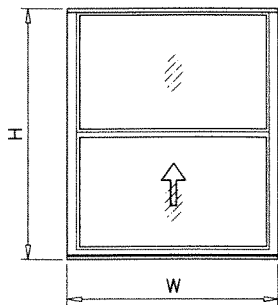
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**W03-56**  
sheet 1.1 of 8

GLAZING OPTIONS

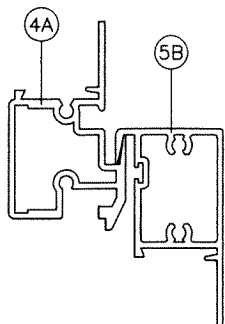


EQUAL LITES WINDOWS DESIGN LOAD CAPACITY – PSF (HI-RISE SILL)							
WINDOW DIMS.		STANDARD TOP RAIL				HEAVY DUTY TOP RAIL	
		GLASS TYPE 'A'		GLASS TYPES 'B', 'C', 'D' & 'E'		GLASS TYPES 'B', 'C', 'D' & 'E'	
WIDTH	HEIGHT	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)
19–1/8"	26" (3)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53–1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19–1/8"	38–3/8" (4)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53–1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19–1/8"	50–5/8" (5)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53–1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19–1/8"	58" (5)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53–1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19–1/8"	63" (6)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53–1/8"		70.0	80.0	80.0	90.0	80.0	90.0
19–1/8"	68" (6)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53–1/8"		–	–	–	–	80.0	90.0
19–1/8"	74–1/4" (7)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		–	–	–	–	80.0	90.0
53–1/8"		–	–	–	–	80.0	90.0
19–1/8"	80" (7)	–	–	–	–	80.0	90.0
26–1/2"		–	–	–	–	80.0	90.0
37"		–	–	–	–	80.0	90.0
42"		–	–	–	–	80.0	90.0
49"		–	–	–	–	80.0	90.0

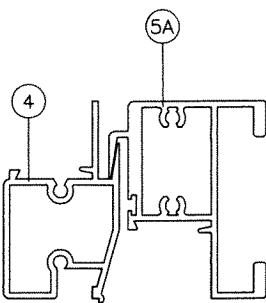
\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.  
LIMIT EXTERIOR(+) LOADS TO 70.0 PSF FOR STD. SILL.



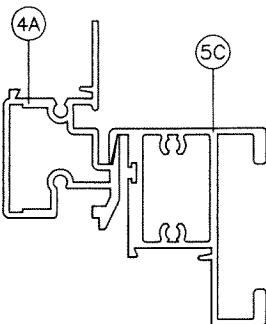
STD. TOP RAIL  
S-1000



STD. TOP RAIL  
S-1050



HEAVY DUTY TOP RAIL  
S-1000



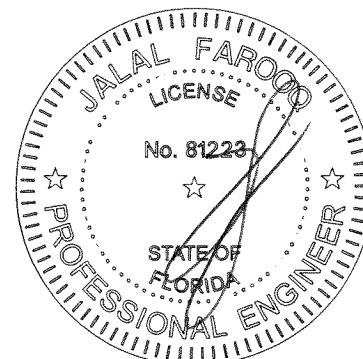
HEAVY DUTY TOP RAIL  
S-1050

UNEQUAL LITES (ORIEL TYPES) WINDOWS DESIGN LOAD CAPACITY – PSF (HI-RISE SILL)							
WINDOW DIMS.		STANDARD TOP RAIL				HEAVY DUTY TOP RAIL	
		GLASS TYPE 'A'		GLASS TYPES 'B', 'C', 'D' & 'E'		GLASS TYPES 'B', 'C', 'D' & 'E'	
WIDTH	HEIGHT	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)
19–1/8"	50–5/8" (5)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		70.0	80.0	80.0	90.0	80.0	90.0
53–1/8"		70.0	74.0	80.0	90.0	80.0	90.0
19–1/8"	58" (5)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"		70.0	80.0	80.0	90.0	80.0	90.0
49"		–	–	–	–	80.0	90.0
19–1/8"	63" (6)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0
37"		70.0	80.0	80.0	90.0	80.0	90.0
42"	68" (6)	–	–	–	–	80.0	90.0
49"		–	–	–	–	80.0	90.0
19–1/8"	74–1/4" (7)	70.0	80.0	80.0	90.0	80.0	90.0
26–1/2"		70.0	80.0	80.0	90.0	80.0	90.0

\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.  
LIMIT EXTERIOR(+) LOADS TO 70.0 PSF FOR STD. SILL.

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-0714.14**  
Expiration Date: **11/06/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

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



JUL 07 2023

**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\W03-56ESW

SERIES-1000/1050 ALUM SINGLE HUNG 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	description
	K	10.11.16	EDITORIAL CHANGES
	L	09.27.17	NO CHANGE THIS SHEET
	M	07.17.20	GENERAL REVISION
	N	07.06.23	NO CHANGE THIS SHEET

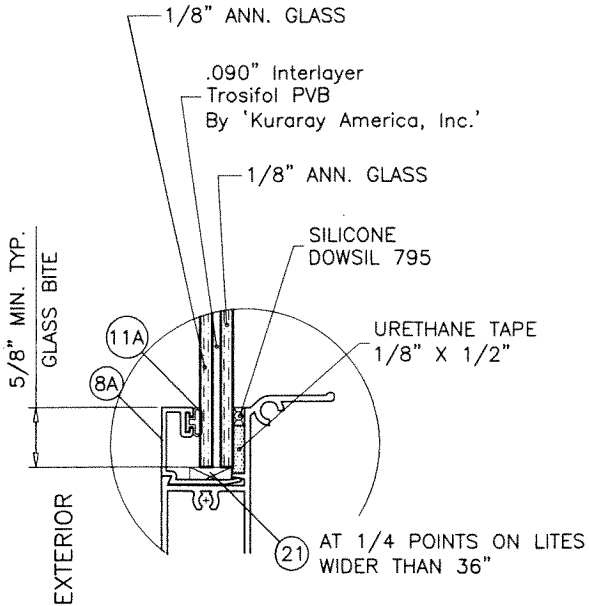
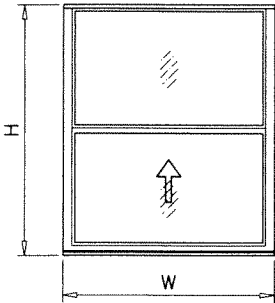
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dr. by: TARIQ  
chk. by:

drawing no.  
**W03-56**  
sheet 2 of 8

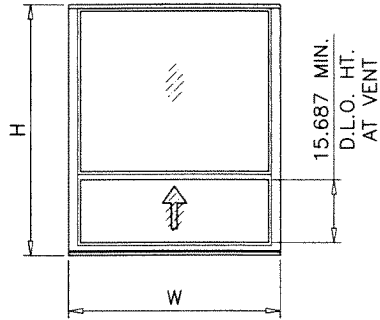


EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF STD. & HI-RISE SILL			
WINDOW DIMS.		STANDARD TOP RAIL	
		GLASS TYPE 'F'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	26"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	38-3/8"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	50-5/8"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	58"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	63"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	68"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	74-1/4"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	80"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0

\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

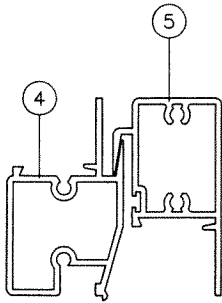


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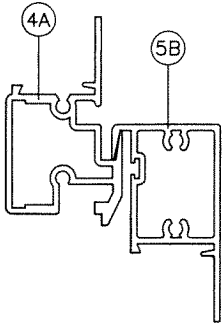


UNEQUAL LITES (ORIEL TYPES) WINDOWS DESIGN LOAD CAPACITY - PSF STD. & HI-RISE SILL			
WINDOW DIMS.		STANDARD TOP RAIL	
		GLASS TYPE 'F'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	50-5/8"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	58"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	63"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	68"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	74-1/4"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0
19-1/8"	80"	70.0	75.0
26-1/2"		70.0	75.0
37"		70.0	75.0
42"		70.0	75.0
49"		70.0	75.0
53-1/8"		70.0	75.0

\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



STD. TOP RAIL  
S-1000

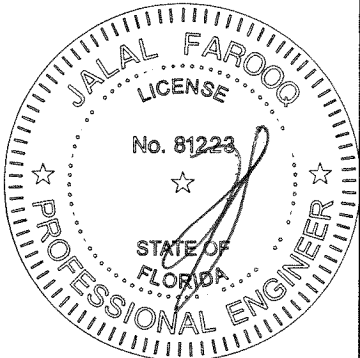


STD. TOP RAIL  
S-1050

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  
NOA-No. **23-0714.14**  
Expiration Date: **11/06/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

JUL 07 2023



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W03-56ESW

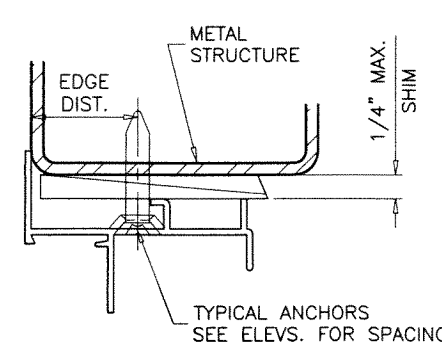
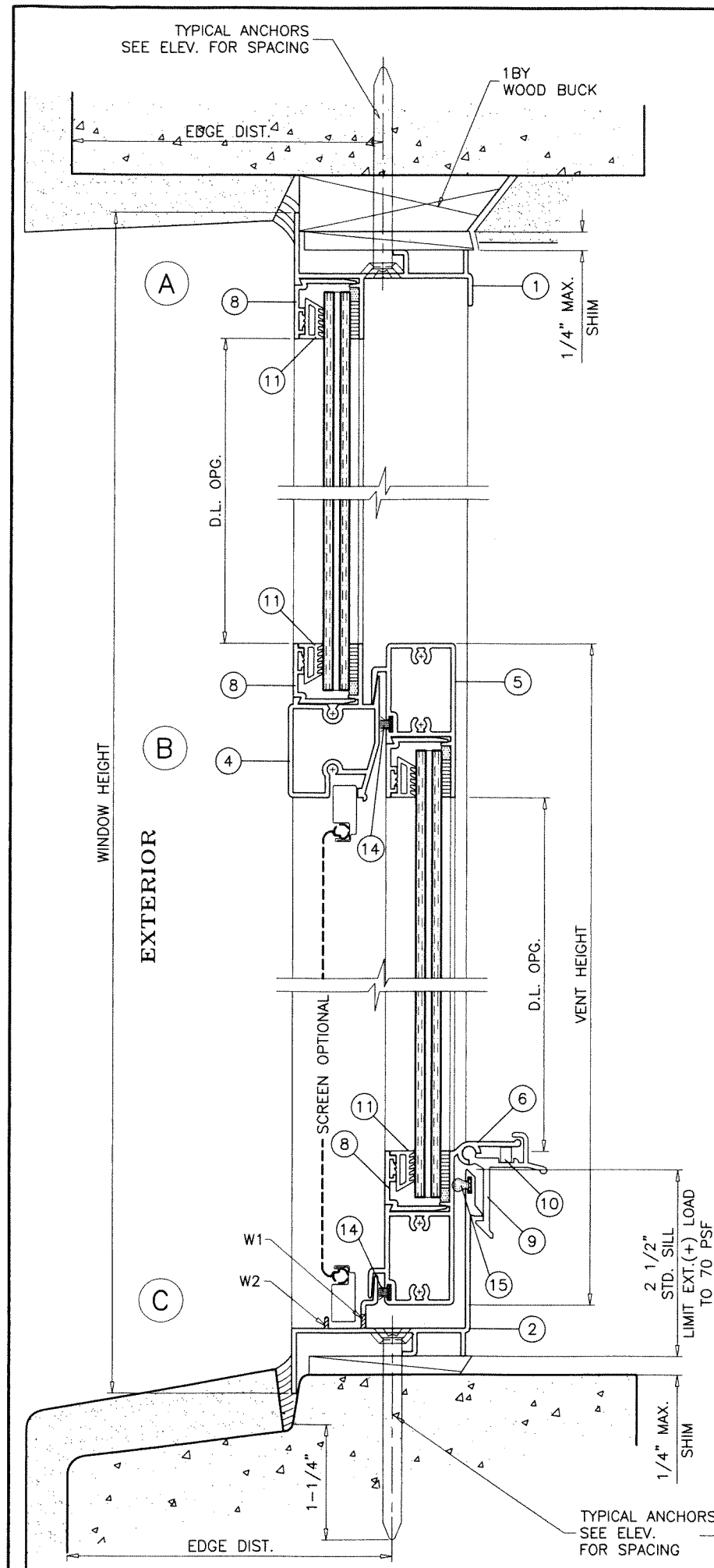
SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)

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

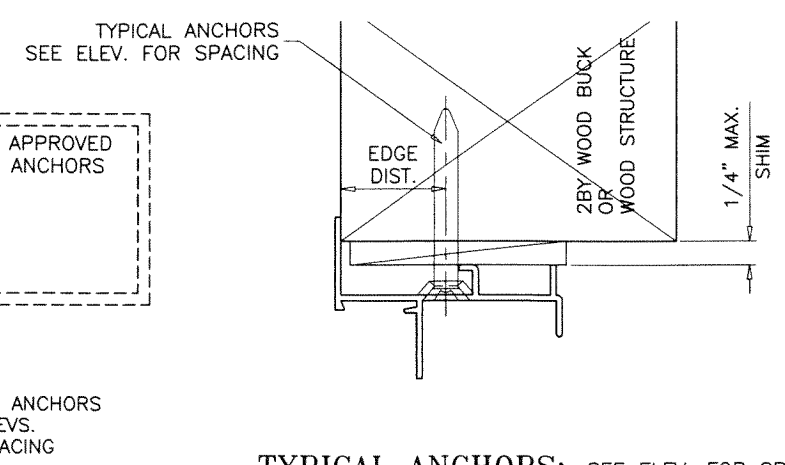
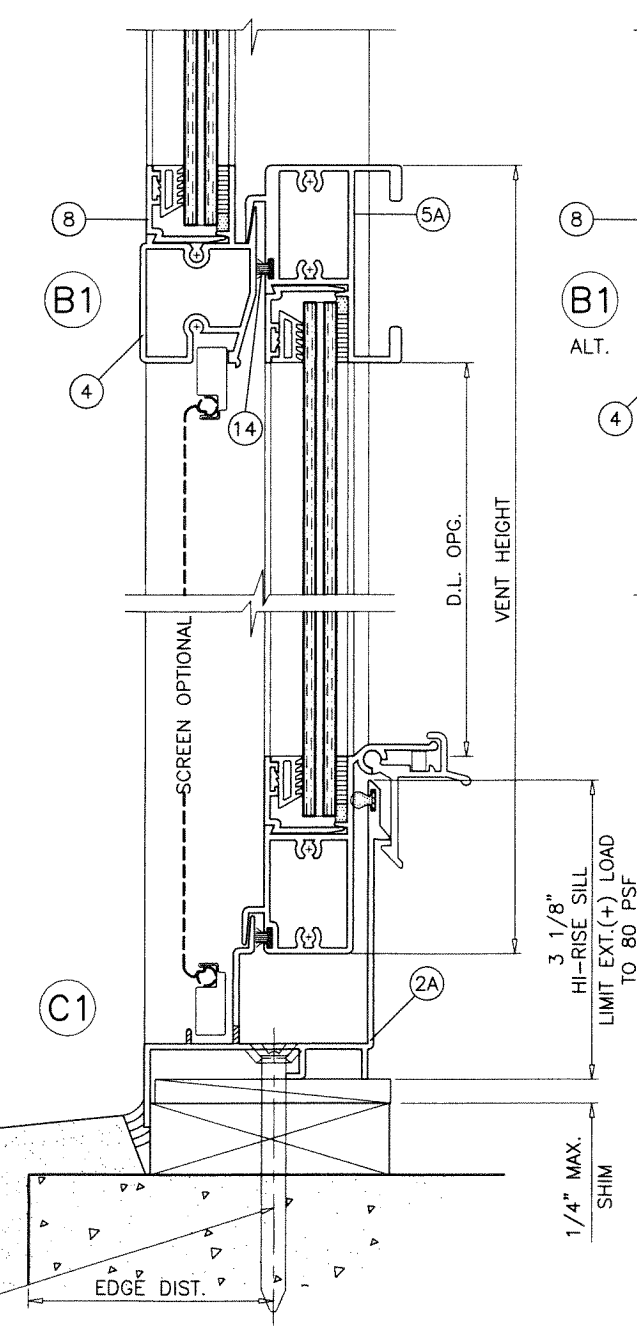
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date: 07-31-03  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W03-56**  
sheet 2.1 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.

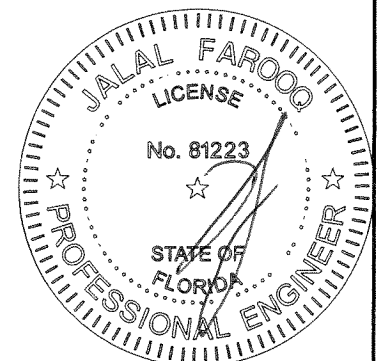
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**SEALANT:**  
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH  
 SCHNEE MOREHEAD SEAM SEALER SM5504.

**WEEPHOLES:**  
 W1 = 1-1/2" X 3/16" WEEPHOLES AT 4" FROM EACH END  
 W2 = 1-5/16" NOTCH AT EACH END

**PRODUCT REVISED**  
 As complying with the Florida  
 Building Code  
 NOA-No. **23-0714.14**  
 Expiration Date: **11/06/2028**  
 By: *Manuel Perez*  
 Miami-Dade Product Control

**SERIES-1000**  
 VENT WITH SPRING LOADED LATCHES



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

COMP-ANL\W03-56ESW

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SERIES-1000/1050 ALUM SINGLE HUNG 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:

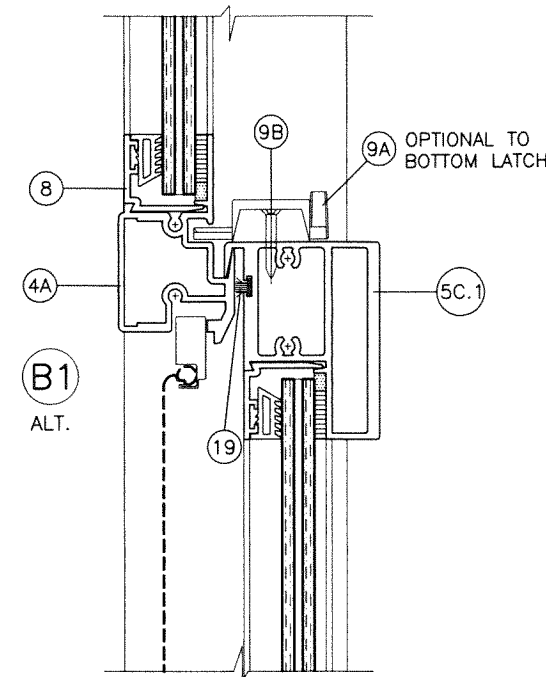
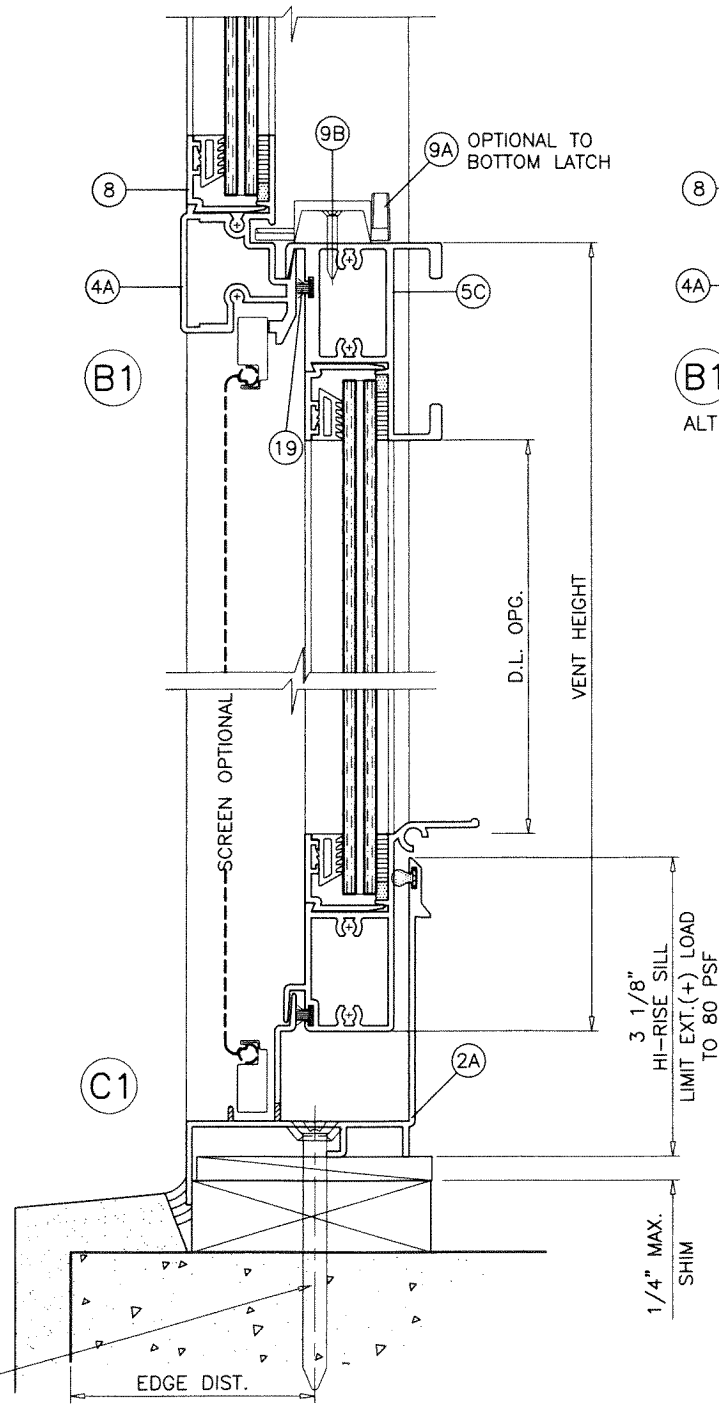
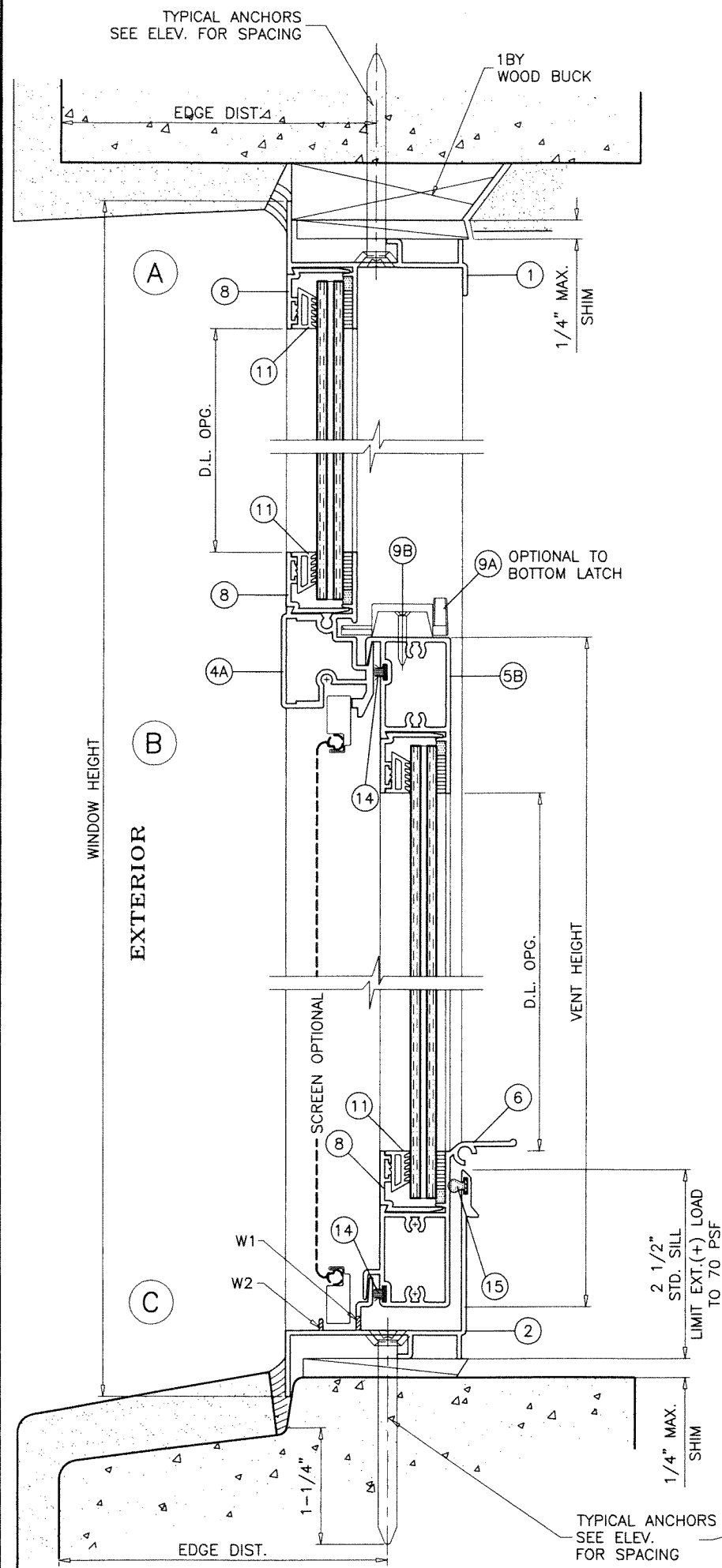
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L	09.27.17		UPDATED TO 2017 FBC
M	07.17.20		GENERAL REVISION
N	07.06.23		NO CHANGE THIS SHEET

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 chg. by:

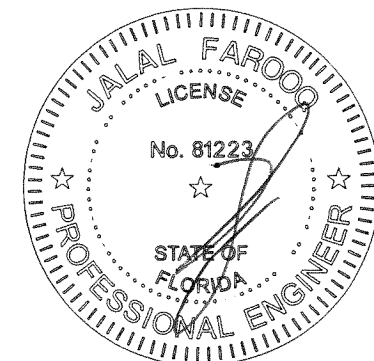
drawing no.  
**W03-56**  
 sheet 3 of 8





**PRODUCT REVISED**  
 As complying with the Florida  
 Building Code  
 NOA-No. **23-0714.14**  
 Expiration Date: **11/06/2028**  
 By: *Manuel Bern*  
 Miami-Dade Product Control

**SERIES-1050**  
 VENT WITH SWEEP LATCHES



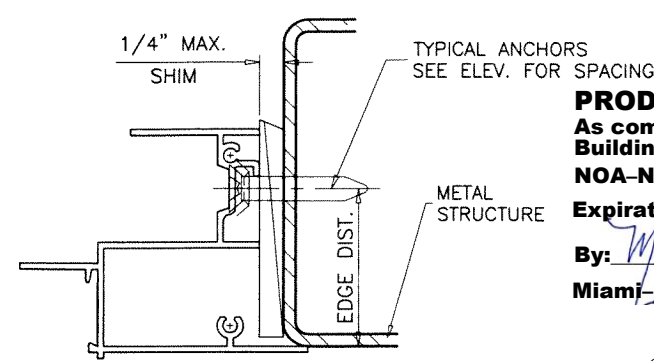
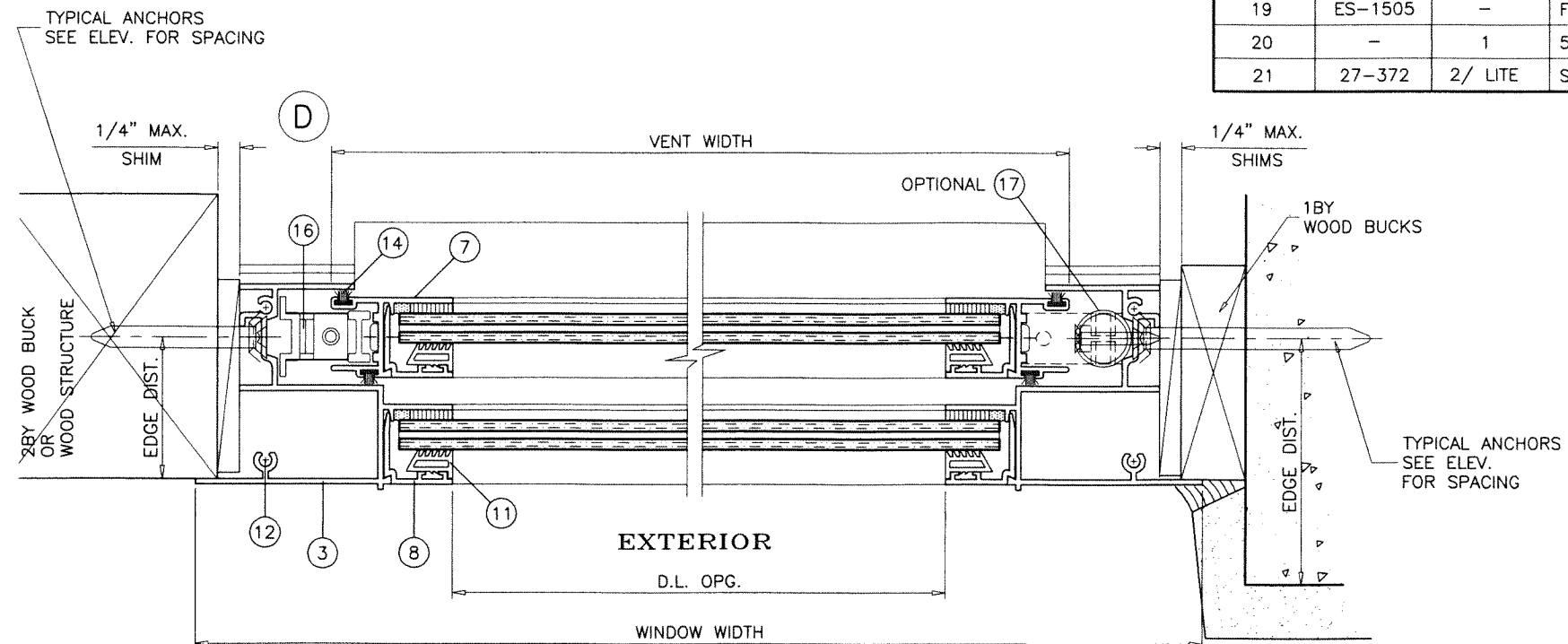
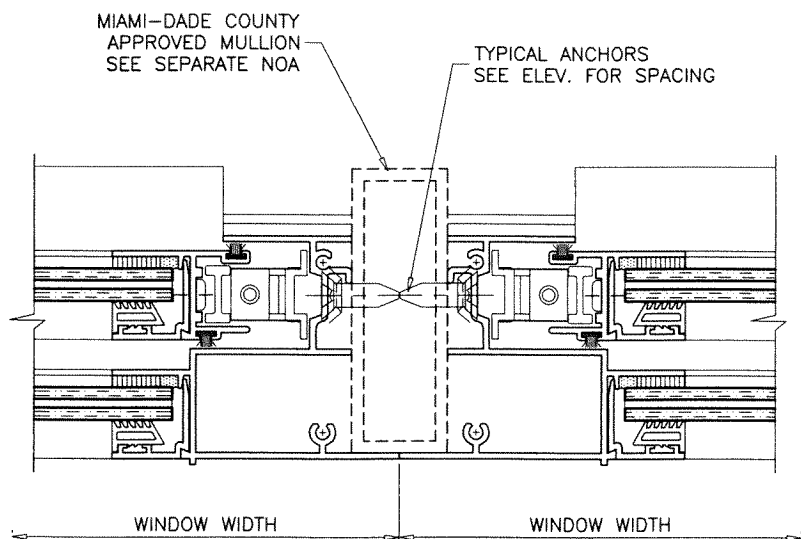
JUL 07 2023

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

SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
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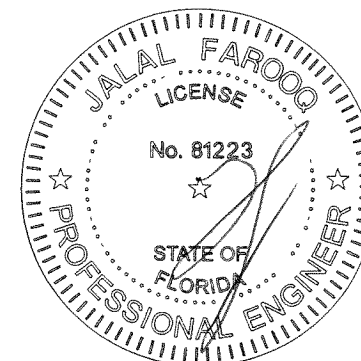
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	N	07.06.23		NO CHANGE THIS SHEET

date: 07-31-03  
 scale: 1/2" = 1"  
 dr. by: TARIQ  
 chk. by:  
 drawing no.  
**W03-56**  
 sheet 4 of 8



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-1001	1	FRAME HEAD	6063-T6	-
2	ES-1002	1	FRAME SILL (STD.)	6063-T6	-
2A	ES-1101	1	FRAME SILL (HI-RISE)	6063-T6	-
3	ES-1003A	2	FRAME JAMB	6005-T5	-
4	ES-1005	1	FIXED MTG. RAIL (FOR SPRING LATCH)	6063-T6	-
4A	ES-1051	1	FIXED MTG. RAIL (FOR SWEEP LATCH)	6063-T6	-
5	ES-1004	1	STD. VENT TOP RAIL (FOR SPRING LATCH)	6063-T6	-
5A	ES-2004	1	HEAVY DUTY VENT TOP RAIL (FOR SPRING LATCHES)	6063-T6	-
5A.1	ES-2004A	1	HEAVY DUTY VENT TOP RAIL (FOR SPRING LATCHES)	6063-T6	ALTERNATE TO 5A
5B	ES-1052	1	STD. VENT TOP RAIL (FOR SWEEP LATCH)	6063-T6	-
5C	ES-1053	1	HEAVY DUTY VENT TOP RAIL (FOR SWEEP LATCHES)	6063-T6	-
5C.1	ES-1053A	1	HEAVY DUTY VENT TOP RAIL (FOR SWEEP LATCHES)	6063-T6	ALTERNATE TO 5C
6	ES-1006	1	VENT BOTTOM RAIL	6063-T6	-
7	ES-1007	2	VENT SIDE RAIL	6063-T5	-
8	ES-1008	AS RQD.	GLAZING BEAD	6063-T6	-
8A	ES-1103	AS RQD.	SQUARE GLAZING BEAD	6063-T5	-
9	ES-1009	2/VENT	SPRING LOADED VENT LATCH	6063-T5	AT 6" FROM ENDS
9A	3032	2/VENT	SWEEP LATCH	ZAMAK	AT 11" FROM ENDS
9B	#8 X 1"	2/ LATCH	LATCH INSTALLATION SCREWS	-	FH SMS
10	ES-1012	1/LATCH	LATCH SPRING	ST. STEEL	-
11	ES-1010	AS REQD.	GLAZING WEDGE	SOFT PVC	DUROMETER 70±5 SHORE 'A'
11A	ES-5008A	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 65±5 SHORE 'A'
12	#8 X 1"	20	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
13	ES-1011	2/VENT	SASH CAM	CELCON	-
14	43620-187	AS REQD.	PILE W'STRIPPING WITH PLASTIC FIN	-	AMESBURY OR EQUIV.
15	Q300X190	AS REQD.	FRAME SILL W'STRIPPING	-	Q-LON2
16	-	2/ VENT	BLOCK & TACKLE BALANCE	-	SERIES 120 BY BSI
17	-	2/ VENT	SPIRAL BALANCE	-	-
18	ES-1013	2	SASH STOP	-	-
19	ES-1505	-	FLUSH FRAME ADAPTER	6063-T5	OPTIONAL
20	-	1	5/16" BOX SCREEN	-	OPTIONAL
21	27-372	2/ LITE	SETTING BLOCK, 7/16" X 3/16" X 3-1/2" LONG	EPDM	DUROMETER 75±5 SHORE A

SERIES-1000  
SERIES-1050



**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-0714.14**  
Expiration Date: **11/06/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

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COMP-ANL\W03-56ESW

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SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)

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revisions:

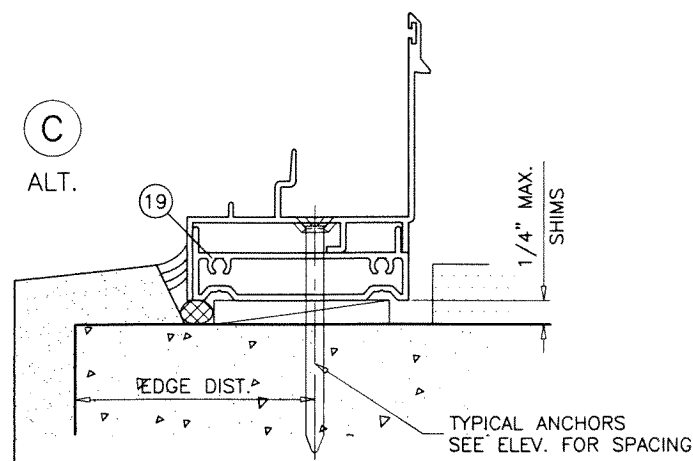
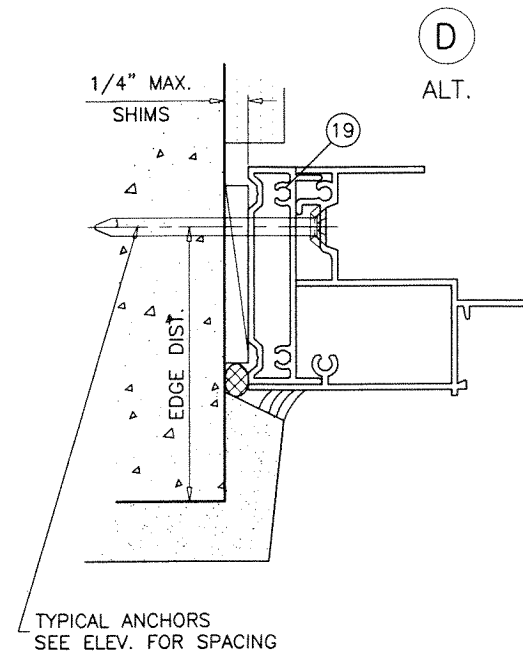
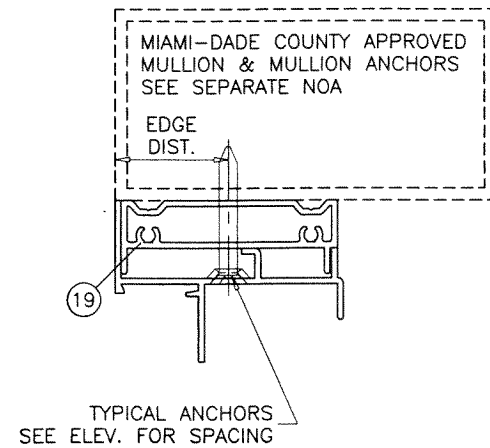
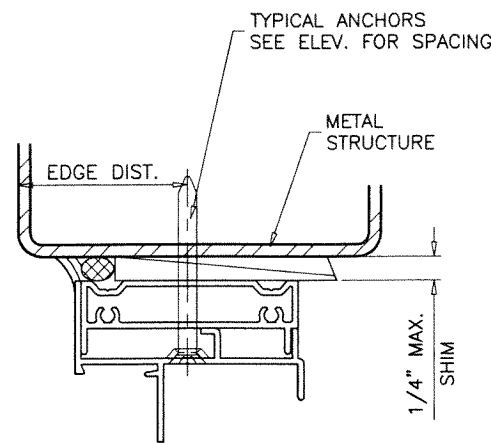
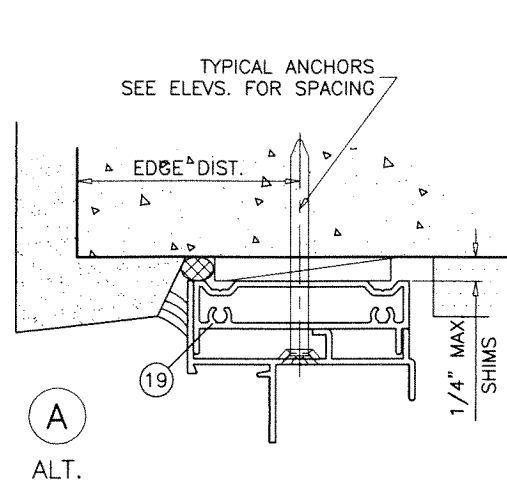
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L	09.27.17	NO CHANGE THIS SHEET	
M	07.17.20	GENERAL REVISION	
N	07.06.23	NO CHANGE THIS SHEET	

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dr. by: TARIQ  
chk. by:

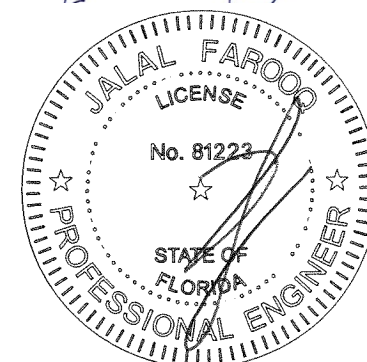
drawing no.  
**W03-56**  
sheet 5 of 8





# INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-0714.14**  
Expiration Date: **11/06/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

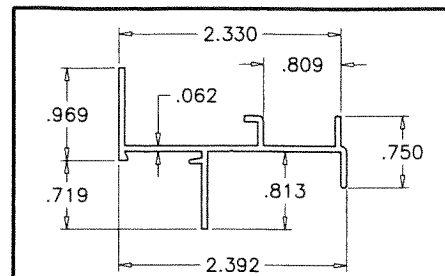


JUL 07 2023

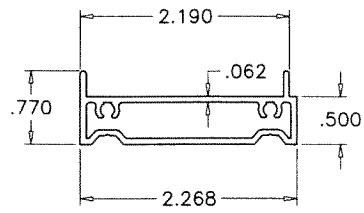
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W03-56ESW

SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

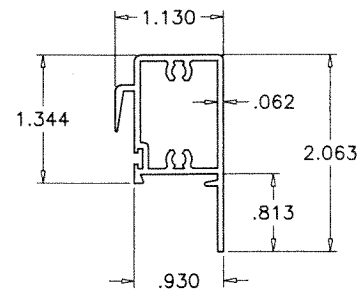
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		N	07.06.23	NO CHANGE THIS SHEET	
date:	07-31-03	scale:	1/2" = 1"	dr. by:	TARIQ
				chk. by:	
drawing no.	W03-56				
sheet	6 of 8				



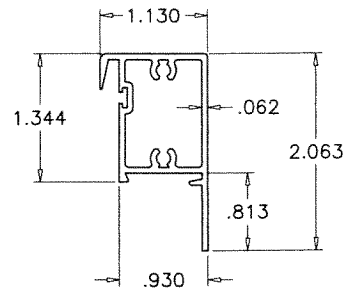
① FRAME HEAD



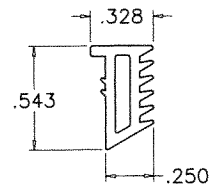
①⑨ FLUSH FRAME ADAPTER



⑤ STD. VENT TOP RAIL  
SERIES-1000

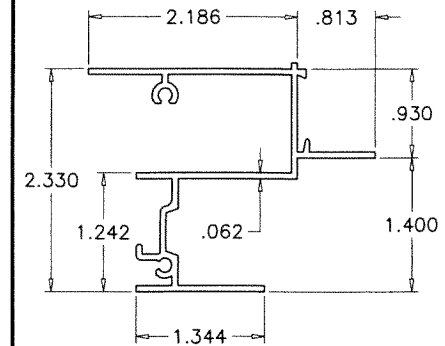


⑤B STD. VENT TOP RAIL  
SERIES-1050

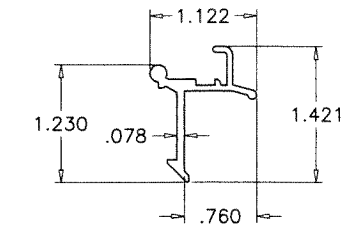


⑪ GLAZING WEDGE  
SCALE 1:1

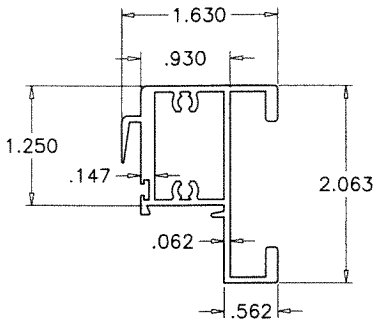
BASE POLYMER = EPDM RUBBER  
DENSITY = 10.26 Lbs/Gal  
HARDNESS = 70±5  
TENSILE STRENGTH = 905 PSI  
ELONGATION AT BREAK = 273%  
TEAR STRENGTH = 1.343 Kip/ft  
BRITTLENESS TEMPERATURE = -40° F  
COMPRESSION SET = 27% (22h@158°F)



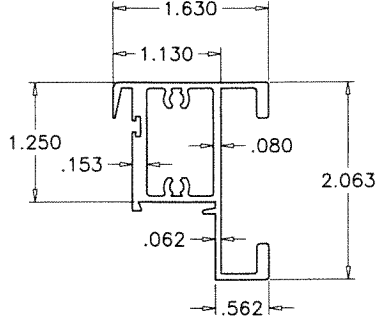
③ FRAME JAMB



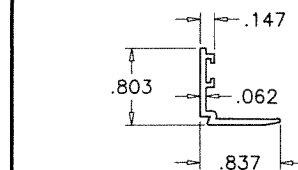
⑨ VENT LATCH



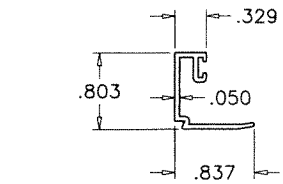
⑤A H.D. VENT TOP RAIL  
SERIES-1000



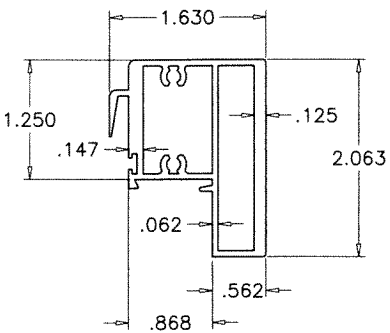
⑤C H.D. VENT TOP RAIL  
SERIES-1050



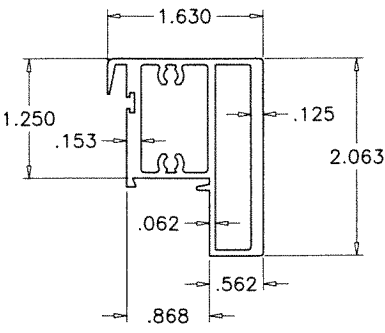
⑧ GLAZING BEAD



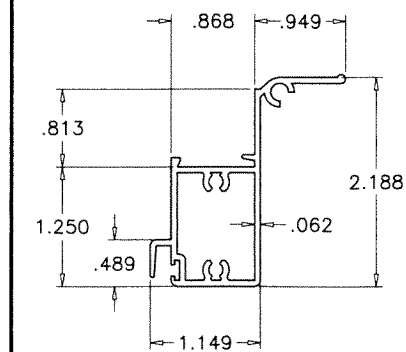
⑧A SQUARE GLAZING STOP



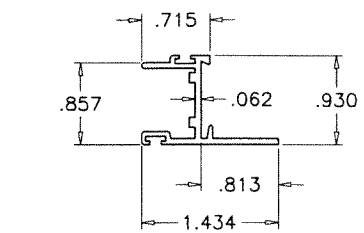
⑤A.1 H.D. VENT TOP RAIL  
SERIES-1000



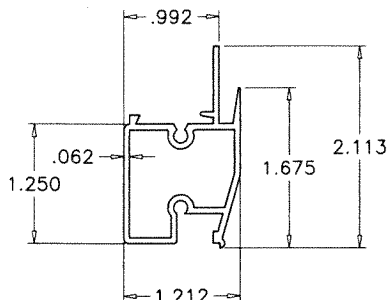
⑤C.1 H.D. VENT TOP RAIL  
SERIES-1050



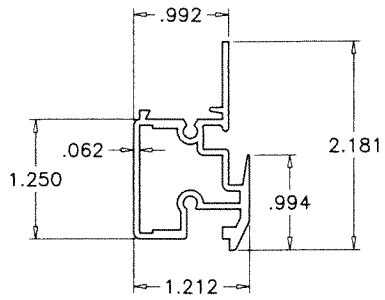
⑥ VENT BOTTOM RAIL



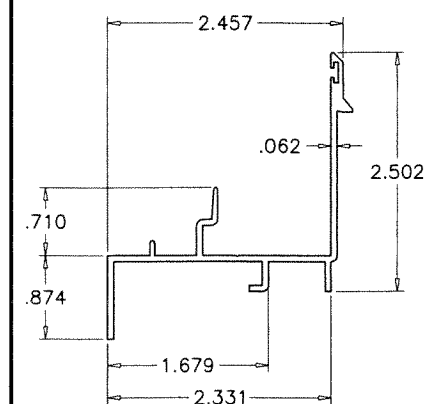
⑦ VENT SIDE RAIL



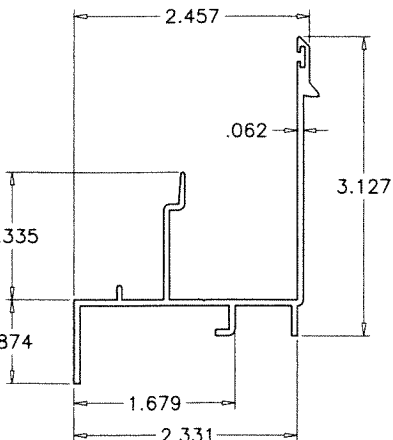
④ MEETING RAIL  
SERIES-1000



④A MEETING RAIL  
SERIES-1050

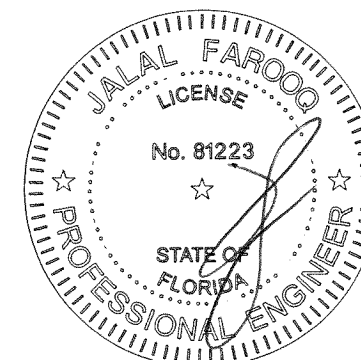


② FRAME SILL (STD.)



②A FRAME SILL (HI-RISE)

**PRODUCT REVISED**  
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Expiration Date: **11/06/2028**  
By: *Manuel Perez*  
Miami-Dade Product Control

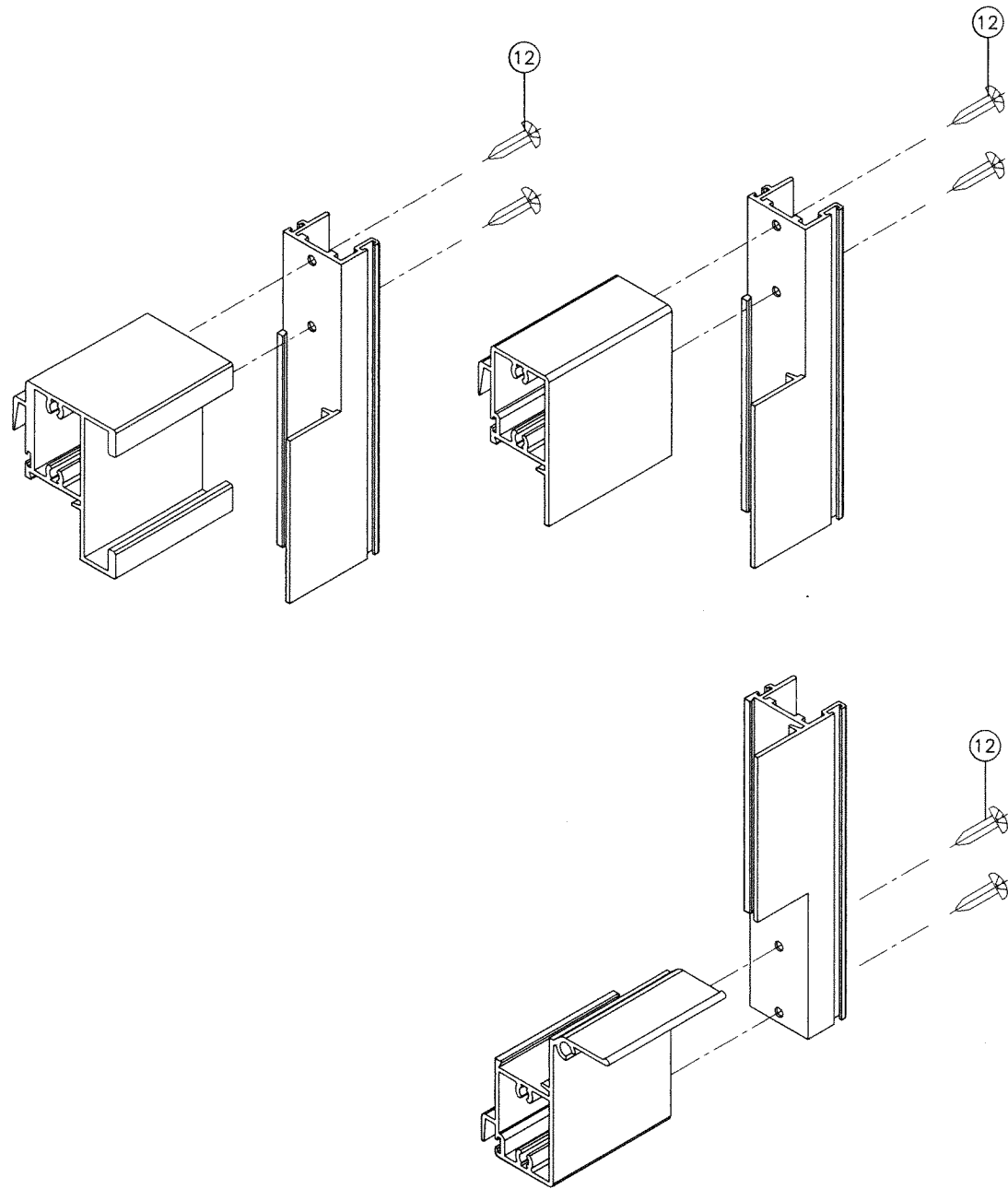


**AL-FAROOQ CORPORATION**  
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COMP-ANL\W03-56ESW

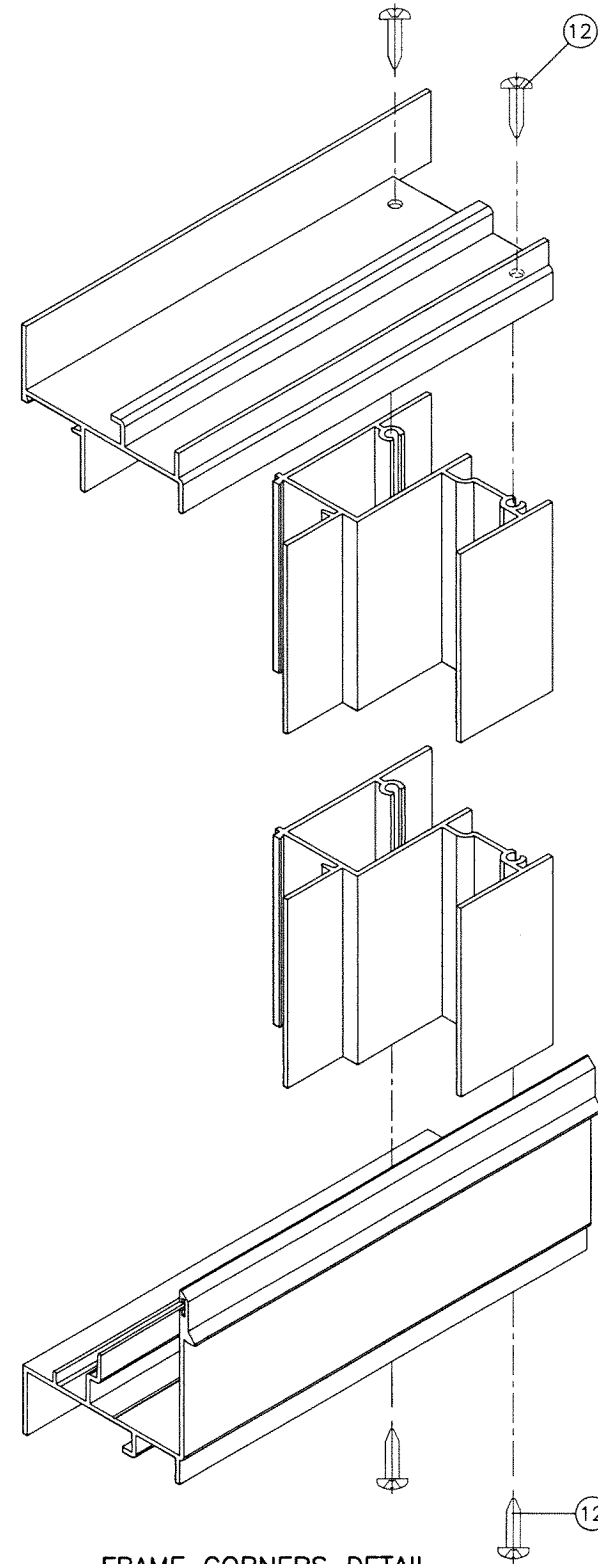
SERIES-1000/1050 ALUM SINGLE HUNG WDW. (L.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
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revisions:		by	description
no	date		
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L	09.27.17		NO CHANGE THIS SHEET
M	07.17.20		GENERAL REVISION
N	07.06.23		NO CHANGE THIS SHEET
date: 07-31-03		scale: 1/2" = 1"	
dr. by: TARIQ		chk. by:	
drawing no.		W03-56	
sheet 7 of 8			



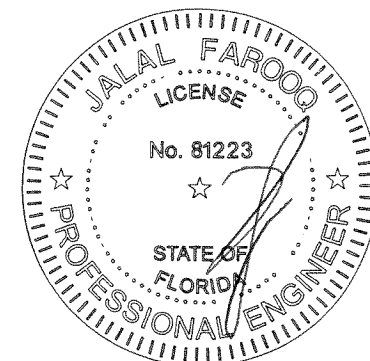
VENT CORNER DETAIL



FRAME CORNERS DETAIL

**PRODUCT REVISED**  
 As complying with the Florida  
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 Miami-Dade Product Control

JUL 07 2023



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drawing no.  
**W03-56**  
 sheet 8 of 8

COMP-ANL\W03-56ESW