



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

NOTICE OF ACCEPTANCE (NOA)

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

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

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "1100" Aluminum Single Hung Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W05-20 Rev L**, titled "Series-1100 Alum Single Hung Window (S.M.I.)", sheets 1 through 6 of 6, dated 04/26/05 and last revised on JUL 09, 2026, 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 NOA No. 25-0724.01** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No. 26-0715.04
Expiration Date: August 11, 2030
Approval Date: August 13, 2026
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

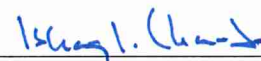
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 09-1008.02)
2. Drawing No. **W05-20**, titled "Series-1100 Alum Single Hung Window (S.M.I)", sheets 1 through 6 of 6, dated 04/26/05, with revision **J** dated 07/06/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0714.16)

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) Small 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 a single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5653**, dated 10/24/08, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 09-1008.02)
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 aluminum single hung windows, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-05-1945** dated 03/28/05, signed and sealed by Ivonne Ghia, P.E.
(Submitted under NOA No. 05-0705.01)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Force Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-05-1432** dated 01/28/05, signed and sealed by Ivonne Ghia, P.E.
(Submitted under NOA No. 05-0705.01)



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0715.04
Expiration Date: August 11, 2030
Approval Date: August 13, 2026

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), revised on 03/09/18 and updated to meet the FBC 7th Edition (2020) requirements, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-0730.02)
2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

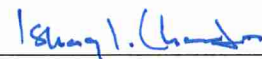
1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/15/22, expiring on 07/04/28.
2. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color 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 12, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0714.16)
2. Distributor Agreement between ES Windows-Energia Solar, S.A., Barranquilla, Columbia, S.A. and ES Windows, LLC, Miami, Florida, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General Manager respectively on behalf of the companies.
(Submitted under NOA No. 18-0319.08)

G. OTHERS

1. Notice of Acceptance No. **20-0730.02**, issued to E.S. Windows, LLC for their Series "1100" Aluminum Single Hung Window - S.M.I., approved on 10/01/20 and expiring on 08/11/25.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0715.04
Expiration Date: August 11, 2030
Approval Date: August 13, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED under previous approval

A. DRAWINGS

1. Drawing No. **W05-20**, titled "Series-1100 Alum Single Hung Window (S.M.I)", sheets 1 through 6 of 6, dated 04/26/05, with revision **K** dated 08/09/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by IFET, Inc. Test Report No. **TR-IFET-23-0036.1** dated 06/12/25, signed and sealed by Arshad Viqar, P.E.
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 Series ES-1100 aluminum single hung window, prepared by Blackwater Technical Services, Inc. Test Report No. **BT-ESW-23-034** dated 09/23/24, signed and sealed by Michael D. Caldwell, P.E.

C. CALCULATIONS

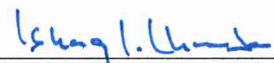
1. Anchor verification calculations and structural analysis, complying with FBC 8th Edition (2023), dated 06/20/25, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

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



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0715.04
Expiration Date: August 11, 2030
Approval Date: August 13, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

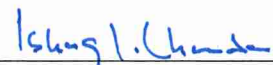
2. EVIDENCE SUBMITTED under previous approval (CONTINUED)

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, and of no financial interest, dated June 20, 2025, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **23-0714.16**, issued to E.S. Windows, LLC for their Series "1100" Aluminum Single Hung Window - S.M.I., approved on 08/24/23 and expiring on 08/11/25.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0715.04
Expiration Date: August 11, 2030
Approval Date: August 13, 2026

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W05-20 Rev L**, titled "Series-1100 Alum Single Hung Window (S.M.I)", sheets 1 through 6 of 6, dated 04/26/05 and last revised on JUL 09, 2026, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS (submitted under previous approval)

1. None

C. CALCULATIONS (submitted under previous approval)

1. None

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA #**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.
2. NOA# **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.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 9th Edition (2026) and FBC 8th Edition (2023)**, and of no financial interest, dated July 09, 2026, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

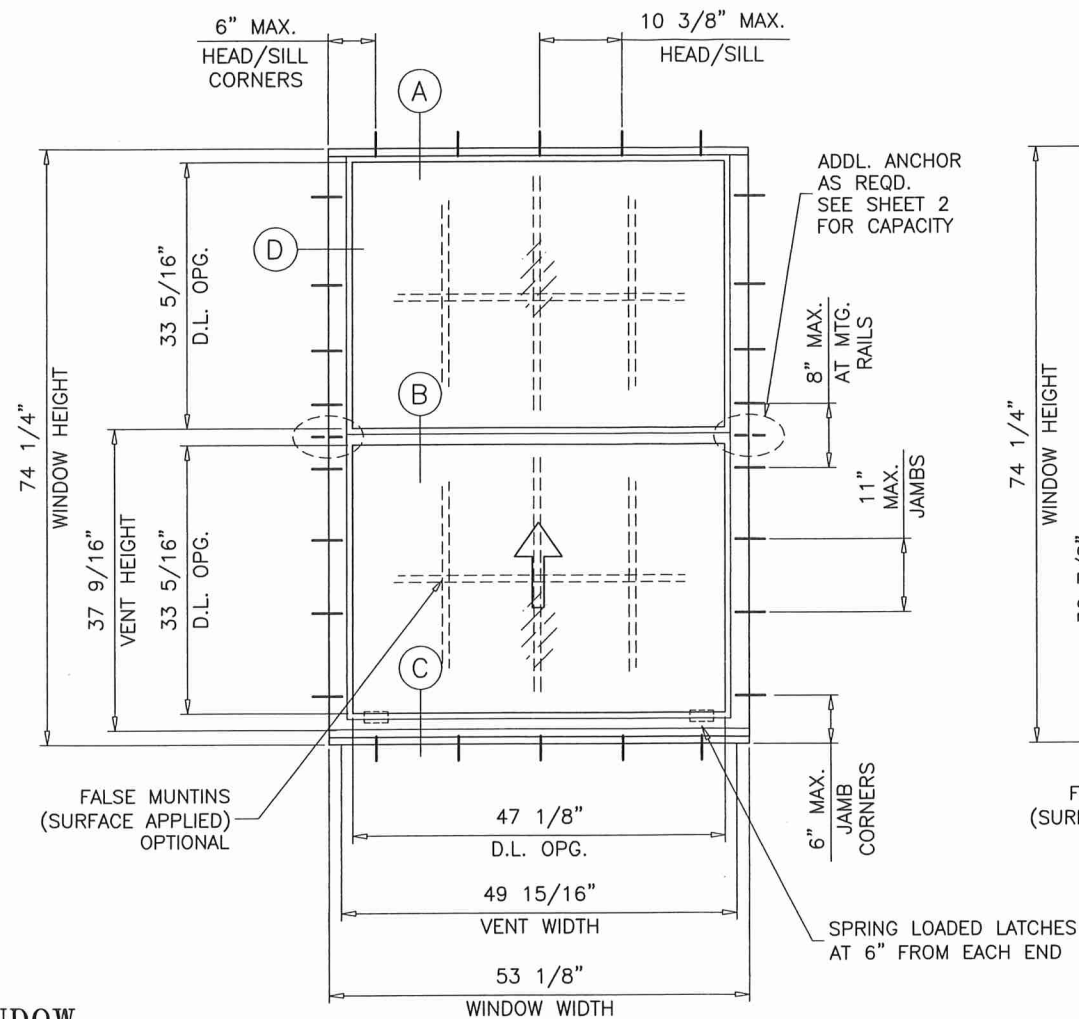
G. OTHERS

1. *This NOA revises NOA No. 25-0724.01, updates to FBC 2026, expiring on 08/11/30.*

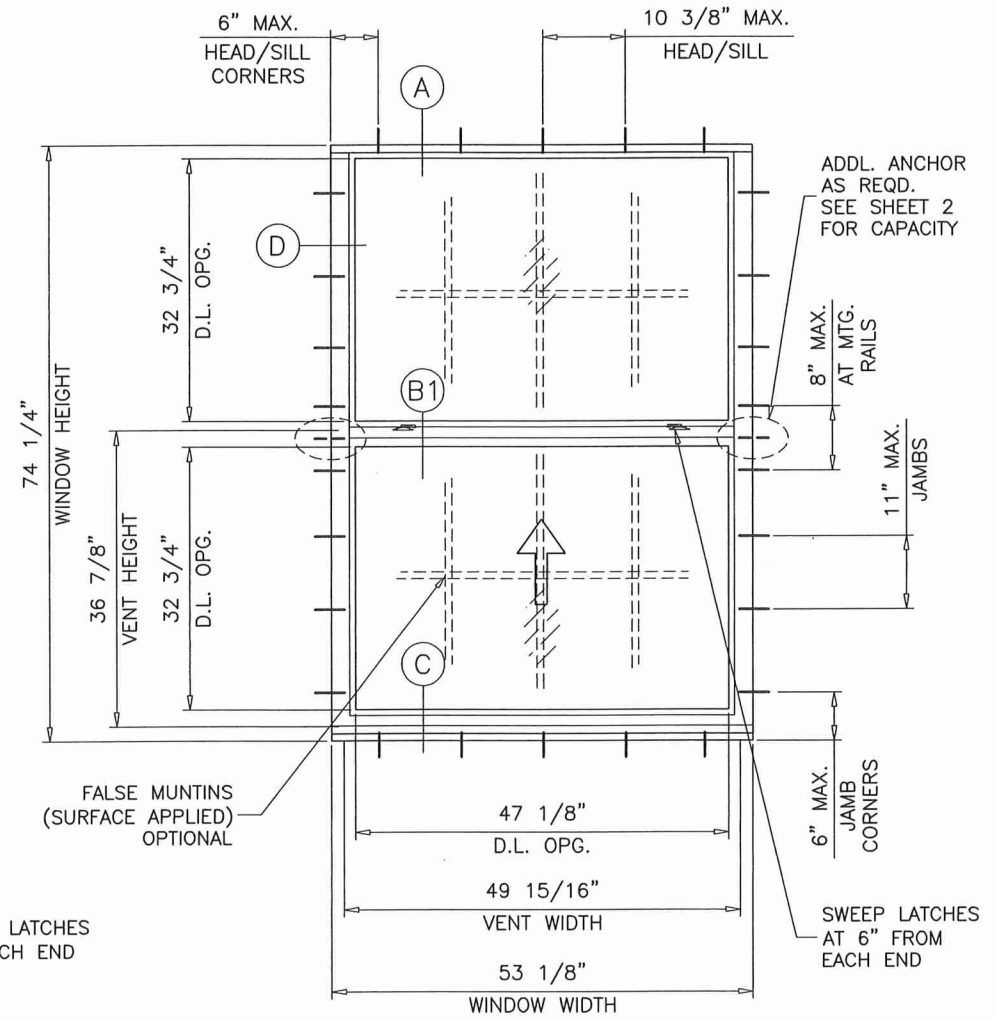
Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0715.04
Expiration Date: August 11, 2030
Approval Date: August 13, 2026

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.



TYPICAL ELEVATION



TYPICAL ELEVATION

SERIES-1100 ALUMINUM SINGLE HUNG 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 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 2023 (8TH EDITION)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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)'.

LATCHES AT BOTTOM RAIL:

DAYLITE OPENINGS:

DLO WIDTH = WINDOW WIDTH - 6.000

DLO HEIGHT = $\frac{\text{WINDOW HT} - 7.625}{2}$

PRODUCT REVISED

as complying with the Florida Building Code
Acceptance No. 26-0715-64
Expiration Date 8/11/2030

By *J. L. L...*
Miami Dade Product Control

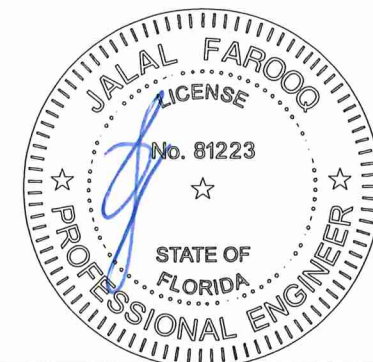
LATCHES AT MTG. RAIL:

DAYLITE OPENINGS:

DLO WIDTH = WINDOW WIDTH - 6.000

DLO HEIGHT = $\frac{\text{WINDOW HT} - 8.750}{2}$

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.



JUL 09 2026

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.

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W05-20ESW

SERIES-1100 ALUM SINGLE HUNG WINDOW (S.M.I.)

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

no	date	by	description
I	07.23.20		UPDATED TO 2020 FBC
J	07.06.23		UPDATED TO 2023 FBC
K	08.09.24		WINLITE INTERLAYER ADDED
L	07.06.26		UPDATED TO 2026 FBC

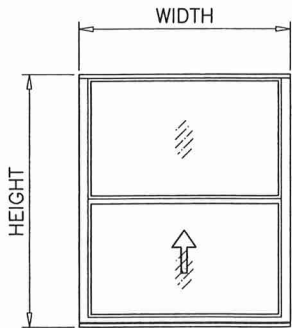
date: 04-26-05
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.

W05-20

sheet 1 of 6

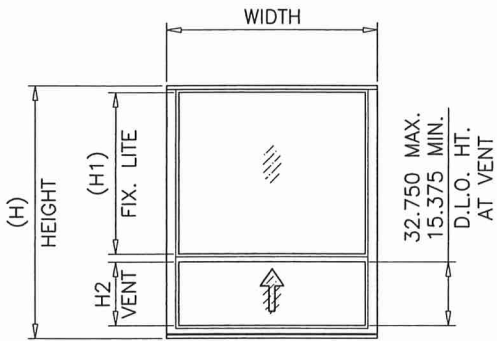
EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		2 ANCHORS AT MTG. RAILS				3 ANCHORS AT MTG. RAILS			
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26" (4)	80.0	120.0	80.0	140.0	-	-	-	-
26-1/2"		80.0	120.0	80.0	140.0	-	-	-	-
32"		80.0	120.0	80.0	140.0	-	-	-	-
37"		80.0	120.0	80.0	140.0	-	-	-	-
42"		80.0	120.0	80.0	140.0	-	-	-	-
48"		80.0	120.0	80.0	140.0	-	-	-	-
53-1/8"		80.0	120.0	80.0	140.0	-	-	-	-
19-1/8"	38-3/8" (4)	80.0	120.0	80.0	140.0	-	-	-	-
26-1/2"		80.0	120.0	80.0	140.0	-	-	-	-
32"		80.0	120.0	80.0	140.0	-	-	-	-
37"		80.0	120.0	80.0	140.0	-	-	-	-
42"		80.0	120.0	80.0	140.0	-	-	-	-
48"		80.0	120.0	80.0	140.0	-	-	-	-
53-1/8"		80.0	120.0	80.0	134.9	-	-	80.0	140.0
19-1/8"	50-5/8" (6)	80.0	120.0	80.0	140.0	-	-	-	-
26-1/2"		80.0	120.0	80.0	140.0	-	-	-	-
32"		80.0	120.0	80.0	140.0	-	-	-	-
37"		80.0	120.0	80.0	140.0	-	-	-	-
42"		80.0	120.0	80.0	140.0	-	-	-	-
48"		80.0	120.0	80.0	129.3	-	-	80.0	140.0
53-1/8"		80.0	111.0	80.0	111.0	80.0	120.0	80.0	140.0
19-1/8"	58" (6)	80.0	120.0	80.0	140.0	-	-	-	-
26-1/2"		80.0	120.0	80.0	140.0	-	-	-	-
32"		80.0	120.0	80.0	140.0	-	-	-	-
37"		80.0	120.0	80.0	140.0	-	-	-	-
42"		80.0	120.0	80.0	140.0	-	-	-	-
48"		80.0	120.0	80.0	120.0	-	-	80.0	140.0
53-1/8"		80.0	102.1	80.0	102.1	80.0	120.0	80.0	140.0
19-1/8"	63" (6)	80.0	120.0	80.0	140.0	-	-	-	-
26-1/2"		80.0	120.0	80.0	140.0	-	-	-	-
32"		80.0	120.0	80.0	140.0	-	-	-	-
37"		80.0	120.0	80.0	140.0	-	-	-	-
42"		80.0	120.0	80.0	140.0	-	-	-	-
48"		80.0	115.5	80.0	115.5	80.0	120.0	80.0	140.0
53-1/8"		80.0	97.5	80.0	97.5	80.0	120.0	80.0	140.0
19-1/8"	74-1/4" (8)	80.0	120.0	80.0	140.0	-	-	-	-
26-1/2"		80.0	120.0	80.0	140.0	-	-	-	-
32"		80.0	120.0	80.0	140.0	-	-	-	-
37"		80.0	120.0	80.0	140.0	-	-	-	-
42"		80.0	120.0	80.0	140.0	-	-	-	-
48"		80.0	109.0	80.0	109.0	80.0	120.0	80.0	140.0
53-1/8"		80.0	90.5	80.0	90.5	80.0	117.5	80.0	135.7



EQUAL LITES

UNEQUAL LITES (ORIEL TYPES) WINDOWS DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		2 ANCHORS AT MTG. RAILS			
		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	50-5/8" (5)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
53-1/8"		80.0	120.0	80.0	140.0
19-1/8"	58" (6)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
19-1/8"	63" (7)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
19-1/8"	74-1/4" (7)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0

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



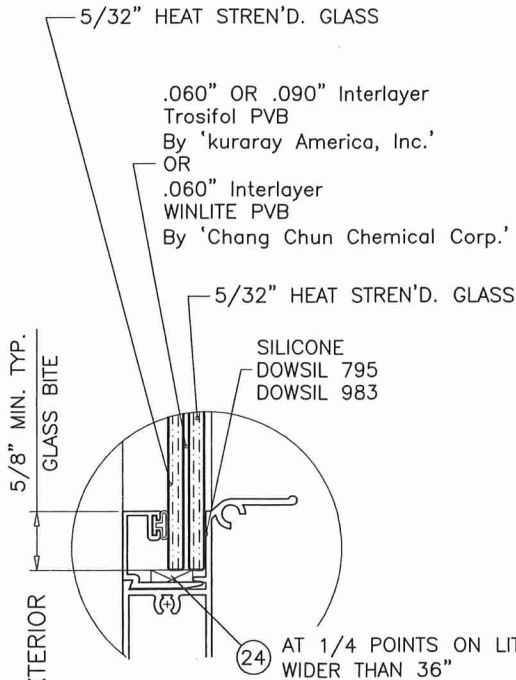
UNEQUAL LITES (ORIEL TYPE)

ORIEL TYPE WITH LATCHES AT BOTTOM RAIL:

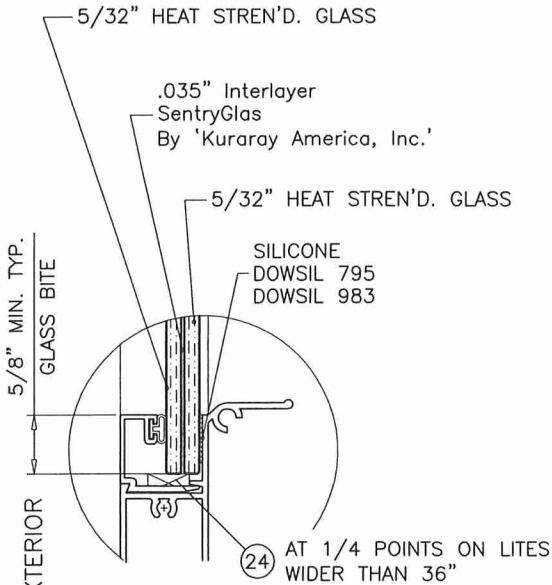
FIXED LITE DLO HEIGHT (H1) = H - 7.625 - H2

ORIEL TYPE WITH LATCHES AT MTG. RAIL:

FIXED LITE DLO HEIGHT (H1) = H - 8.750 - H2

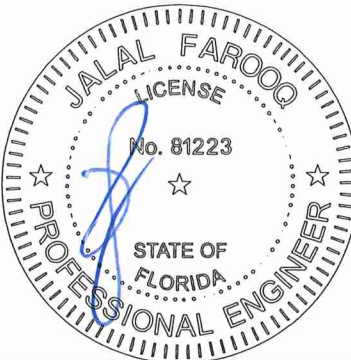


GLASS TYPE 'A'



GLASS TYPE 'B'

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Acceptance No. 26-0715.04
Expiration Date 8/11/2030
By [Signature]
Miami Dade Product Control



NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

GLAZING OPTIONS

JUL 09 2026

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SERIES-1100 ALUM SINGLE HUNG WINDOW (S.M.I.)

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3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:	no	date	by	description
	I	07.23.20		EDITORIAL CHANGES
	J	07.06.23		NO CHANGE THIS SHEET
	K	08.09.24		WINLITE INTERLAYER ADDED
	L	07.06.26		UPDATED TO 2026 FBC

date: 04-26-05

scale: 1/2" = 1"

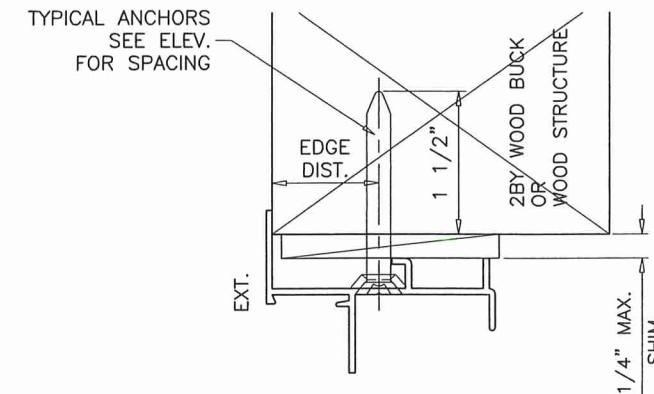
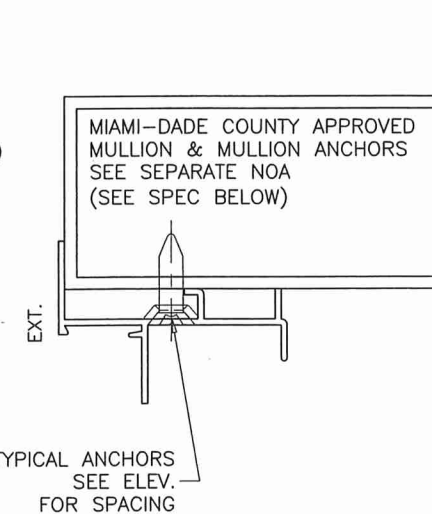
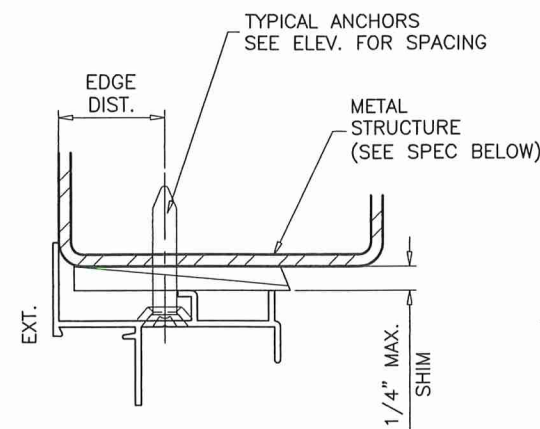
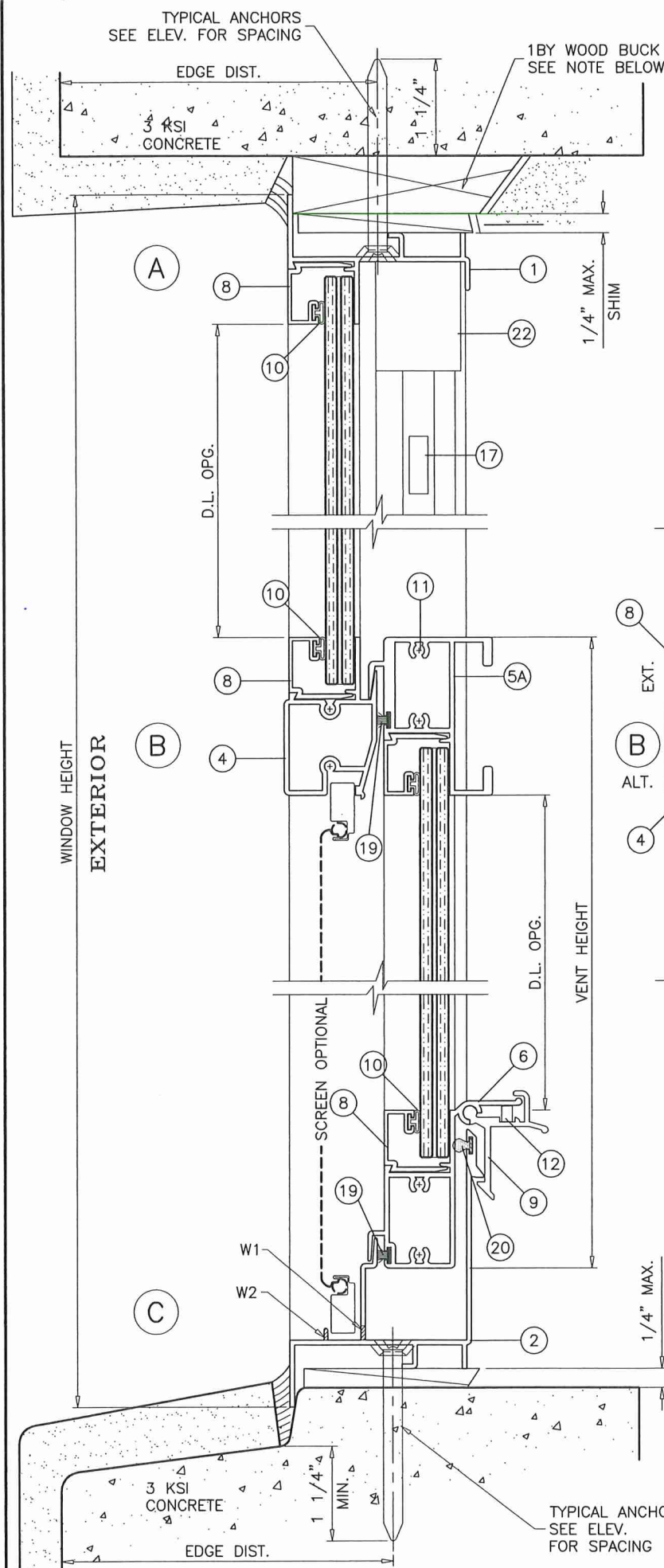
dr. by: TARIQ

chk. by:

drawing no.

W05-20

sheet 2 of 6



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)
 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

DIRECTLY INTO CONC. 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 METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIMS)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (NO SHIMS)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

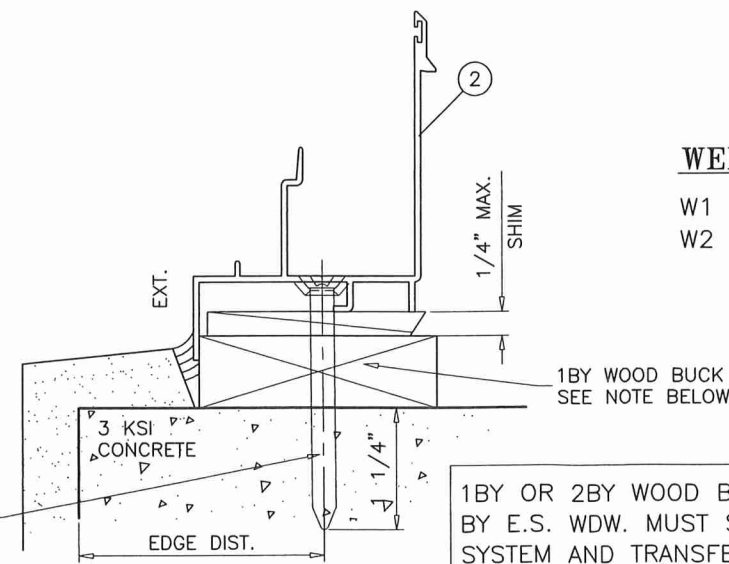
TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 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.

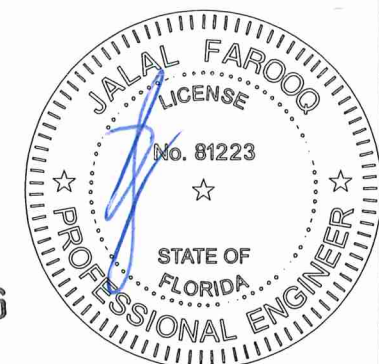
WEEPHOLES:

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



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WDW. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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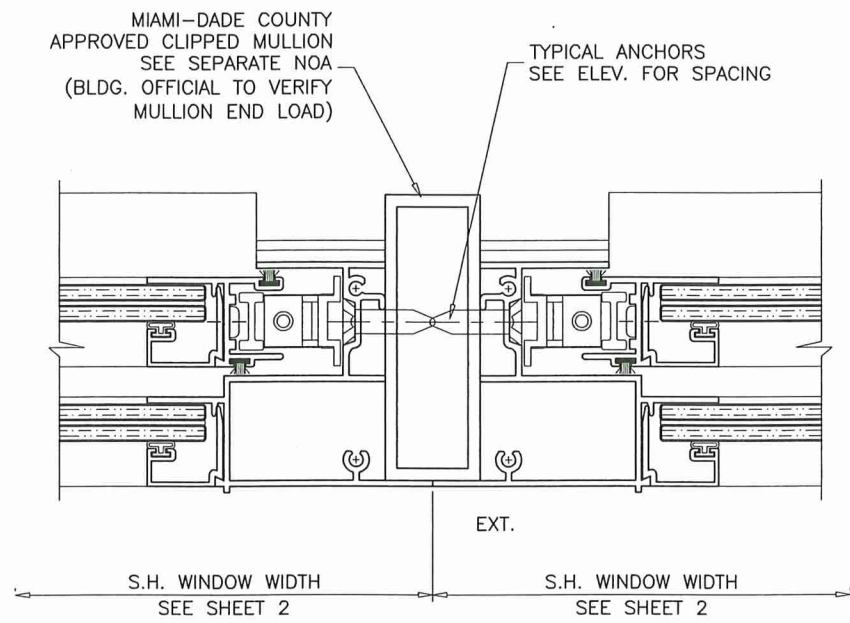
AL-FAROOQ CORPORATION
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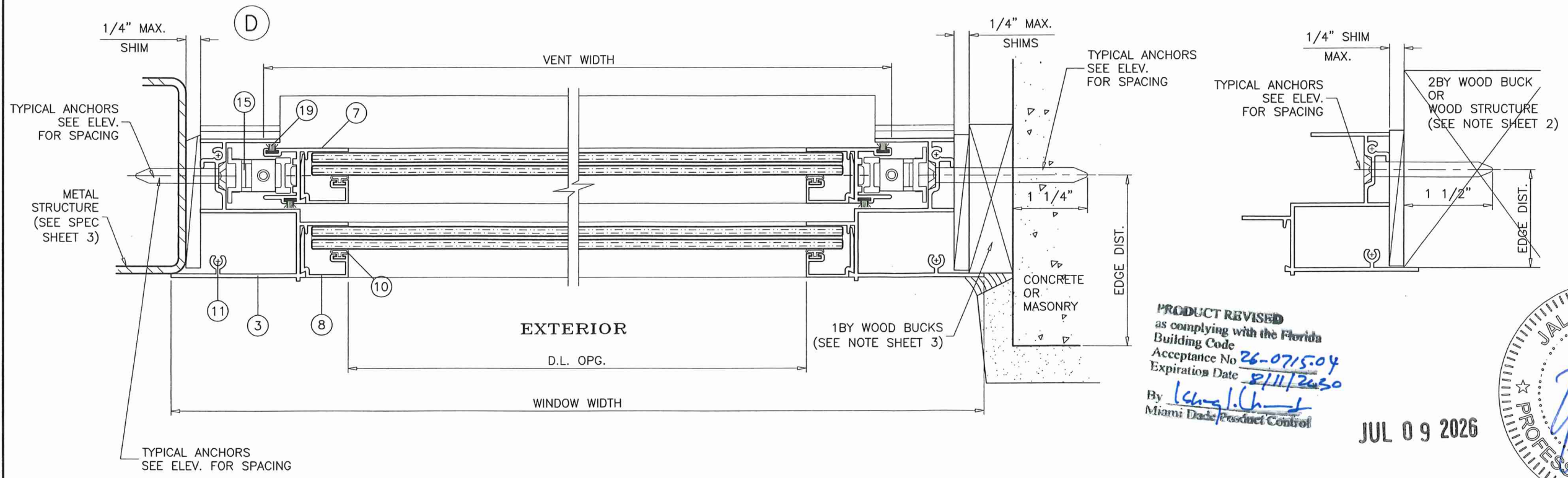
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dr. by:	TARIQ
chk. by:	

drawing no.	W05-20
sheet	3 of 6

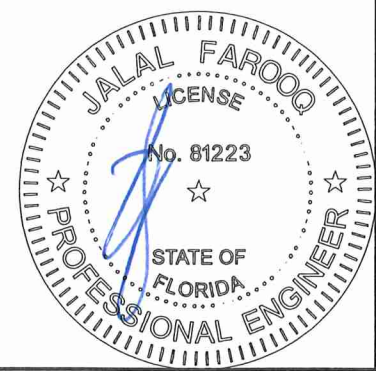


ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1001	1	FRAME HEAD	6063-T6	-
2	ES1101	1	FRAME SILL	6063-T6	-
3	ES1003	2	FRAME JAMB	6063-T6	-
4	ES1005	1	FIXED MTG. RAIL (FOR SPRING LATCH)	6063-T6	-
4A	ES1051	1	FIXED MTG. RAIL (FOR SWEEP LATCH)	6063-T6	-
5A	ES2004	1	HEAVY DUTY VENT TOP RAIL (FOR SPRING LATCHES)	6063-T6	-
5A.1	ES2004A	1	HEAVY DUTY VENT TOP RAIL (FOR SPRING LATCHES)	6063-T6	ALTERNATE TO 5A
5C	ES1053	1	HEAVY DUTY VENT TOP RAIL (FOR SWEEP LATCHES)	6063-T6	-
5C.1	ES1053A	1	HEAVY DUTY VENT TOP RAIL (FOR SWEEP LATCHES)	6063-T6	ALTERNATE TO 5C
6	ES1006	1	VENT BOTTOM RAIL	6063-T6	-
7	ES1007	2	VENT SIDE RAIL	6063-T6	-
8	ES1103	AS REQD.	GLAZING BEAD	6063-T6	-
9	ES1009	2/ VENT	SPRING LOADED VENT LATCH	6063-T5	AT 12" FROM EACH END
9A	-	2/ VENT	SWEEP LATCH	ZAMAK	AT 12" FROM EACH END
9B	#8 X 1"	2/ LATCH	LATCH INSTALLATION SCREWS	-	FH SMS
10	ES1104	AS REQD.	GLAZING GASKET	NEOPRENE	-
11	#8 SMS	20/ WDW.	FRAME & VENT ASSEMBLY SCREWS	-	#8 X 1" P.H.
12	ES1012	1/ LATCH	LATCH SPRING	ST. STEEL	-
13	-	2/ VENT	BLOCK & TACKLE BALANCES	-	SERIES 120 BY BSI
14	103F	1/ BALANCE	BALANCE TOP GUIDE	NYLON	BY BSI (NOT SHOWN)
15	110F	1/ BALANCE	BALANCE BOTTOM GUIDE	NYLON	BY BSI
16	135	1/ BALANCE	BALANCE TERMINAL CLIP	ST. STEEL	(NOT SHOWN)
17	121	2	BALANCE TAKE OUT CLIP	PLATED STEEL	-
18	ES1011	2/ VENT	SASH CAM	CELCON	-
19	W23211NG	AS REQD.	VENT & FIXED RAIL W'STRPPING	-	ULTRAFAB OR EQUIV.
20	Q300X190	AS REQD.	FRAME SILL W'STRIPPING	-	Q-LON2
21	-	1	SCREEN (OPTIONAL)	-	5/16" BOX
22	ES1013-1	2	SASH STOP	-	-
23	ES1505	-	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL
24	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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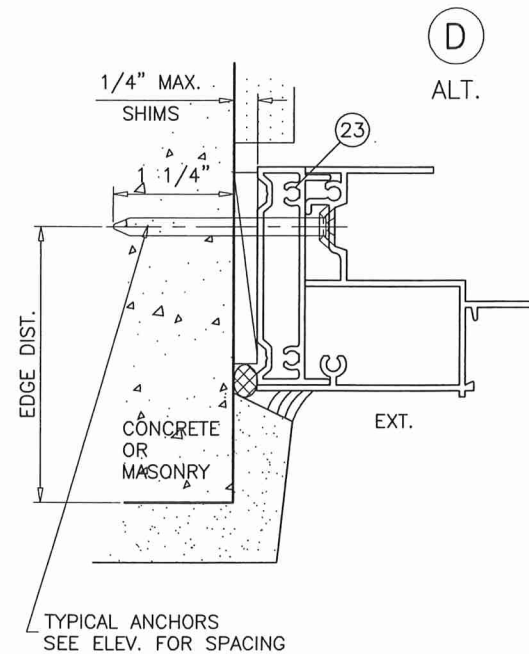
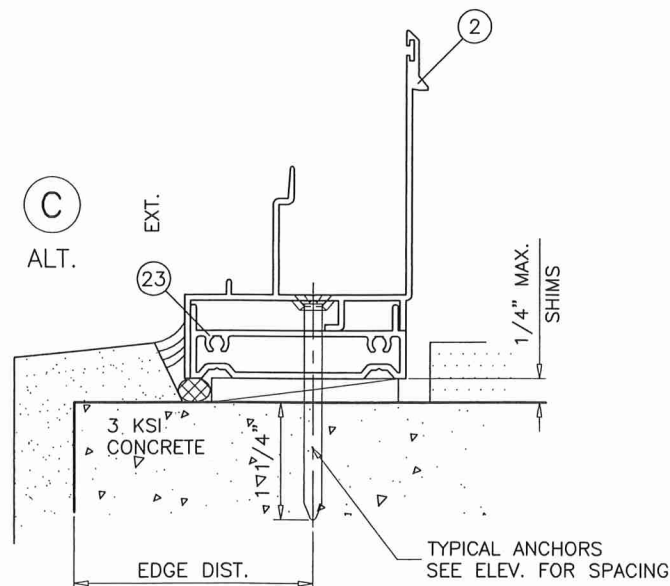
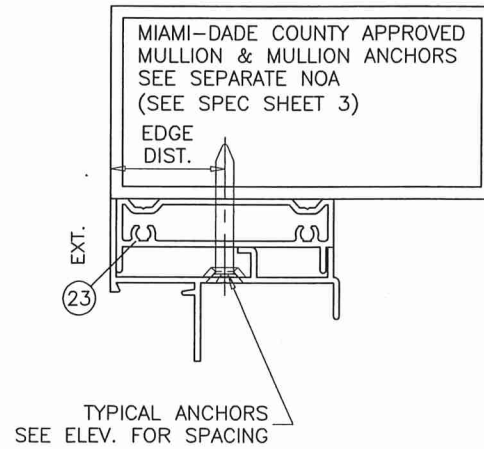
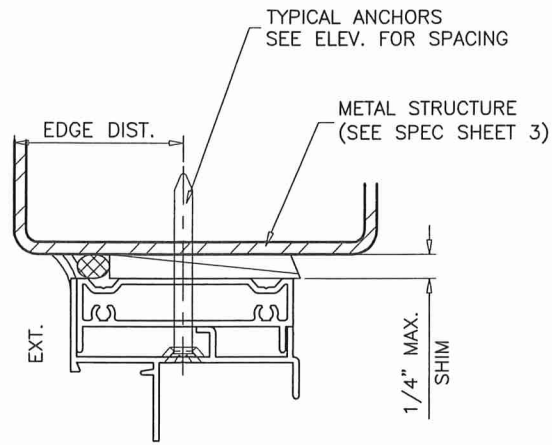
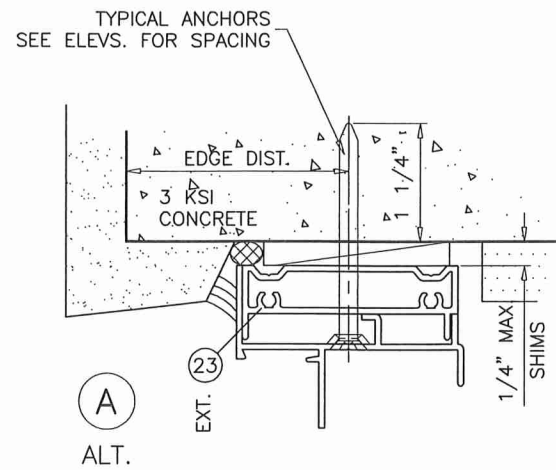
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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

AL-FAROOQ CORPORATION
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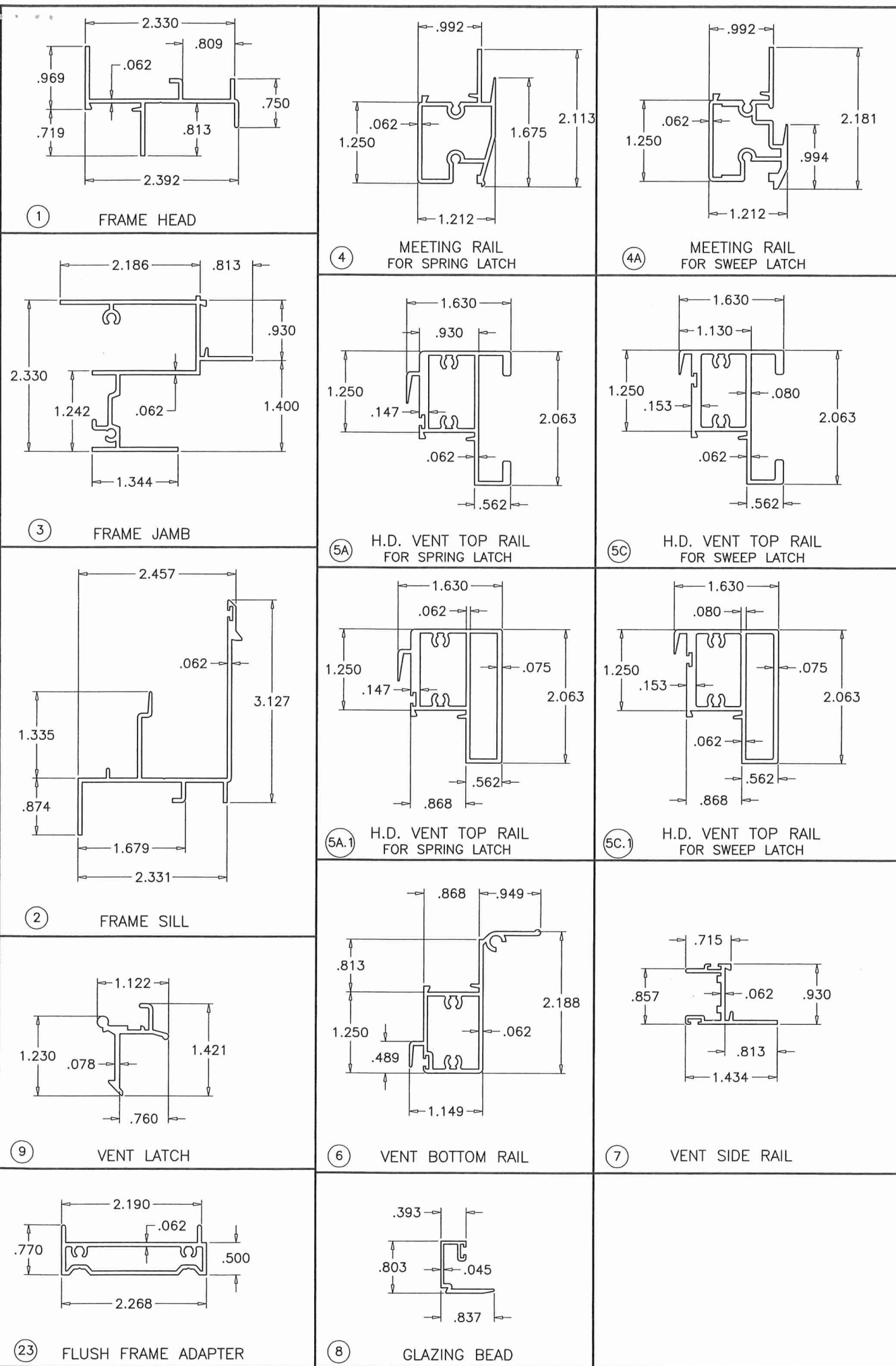
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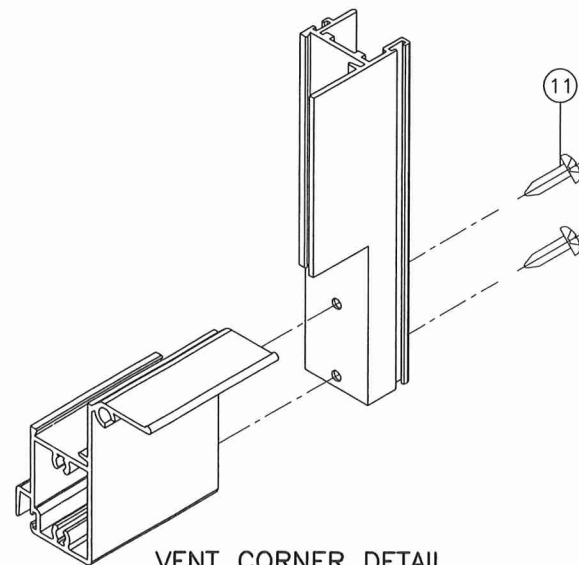
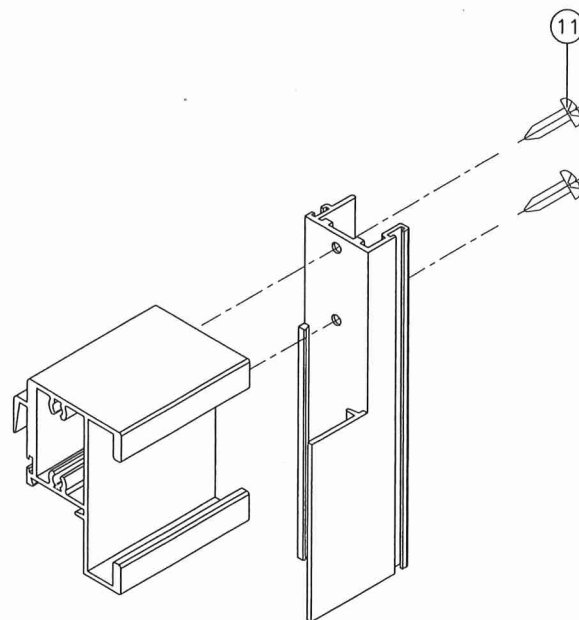
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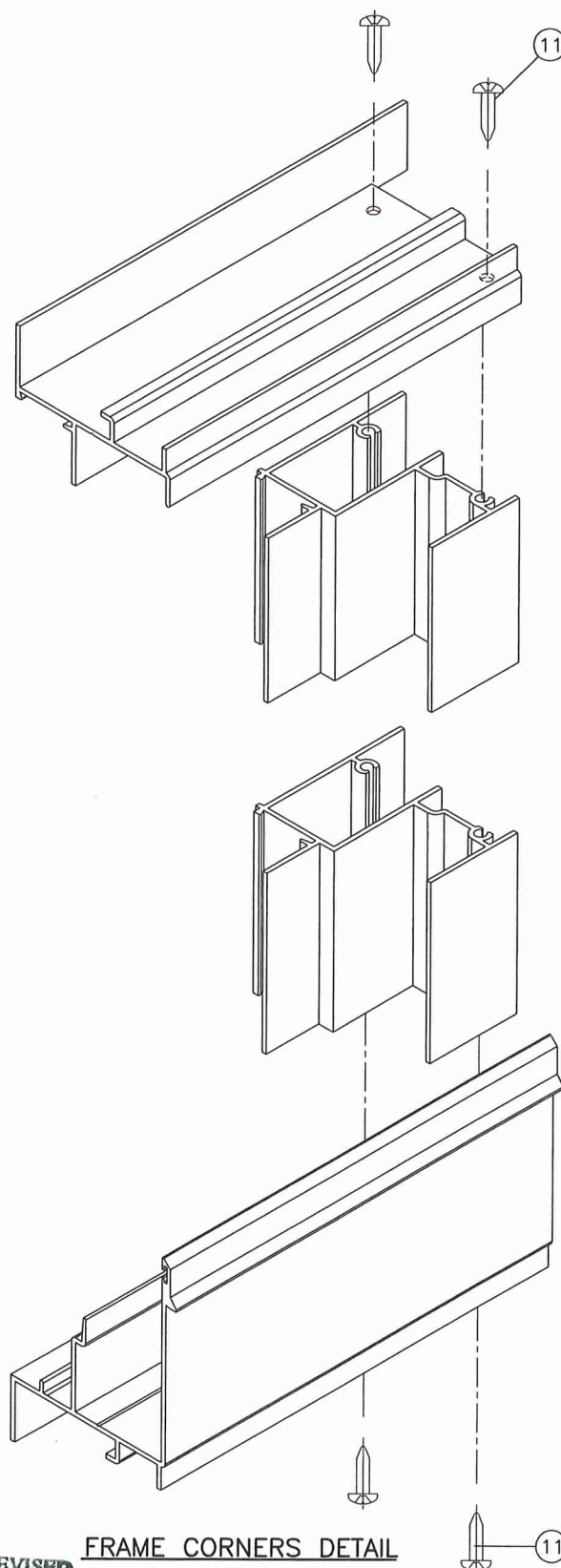
SEALANTS:

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



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