



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 "1100WW" Aluminum Single Hung Window - S.M.I.

APPROVAL DOCUMENT: Drawing No. W12-41 Rev I, titled "Series-1100WW Alum. Single Hung Window (S.M.I)", sheets 1, 1.1, 2 and 3 through 11 of 11, dated 07/20/12 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. 25-0728.08 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. 26-0715.06
Expiration Date: December 13, 2028
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. 12-0907.02)
2. Drawing No. **W12-41**, titled "Series-1100WW Alum Single Hung Window (S.M.I.)" sheets 1 through 11 of 11, dated 07/20/12, with revision **G** dated 07/06/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0803.04)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
8) Safety Performance Test, (class A) per ANSI Z97.1
along with marked-up drawings and installation diagram of aluminum single hung window over fixed window, single and mulled units, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6800**, dated 05/18/12, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 12-0907.02)
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) Small Missile Impact Test per FBC, TAS 201-94
6) 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 Reports No. **FTL-5337** dated 01/25/08 and **FTL-5815** dated 02/13/09, both signed and sealed by Michael R. Wenzel, P.E.
(For Reference Only - Submitted under NOA's No. 07-0928.14 and No. 09-1008.05)



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 26-0715.06

Expiration Date: December 13, 2028

Approval Date: August 13, 2026

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

along with marked-up drawings and installation diagram of an aluminum Single Hung window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.

HETI-05-1432 dated 01/28/05 & **HETI-05-1945**, dated 03/28/05, signed and sealed by Ivonne Ghia, P.E. *(For Reference Only - Submitted under NOA's No. 06-0316.03, No. 07-0928.14 and No. 09-1008.05)*

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), dated 10/29/14 and 10/10/17, and updated on 11/16/20 to comply with FBC 7th Edition (2020), prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1208.11)
2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE

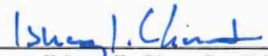
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **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.
2. 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.

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. 23-0803.04)



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 26-0715.06

Expiration Date: December 13, 2028

Approval Date: August 13, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

G. OTHERS

1. Notice of Acceptance No. **20-1208.11**, issued to E.S. Windows, LLC, for their Series "1100WW" Aluminum Single Hung Window - S.M.I., approved on 02/18/21 and expiring on 12/13/23.

2. EVIDENCE SUBMITTED under previous approval

A. DRAWINGS

1. Drawing No. **W12-41**, titled "Series-1100WW Alum Single Hung Window (S.M.I.)" sheets 1, 1.1, 2, and 3 through 11 of 11, dated 07/20/12, with revision **H** dated 08/12/24, 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 an aluminum single hung window, 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 06/23/25, 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)



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 26-0715.06

Expiration Date: December 13, 2028

Approval Date: August 13, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED under previous approval(CONTINUED)

E. MATERIAL CERTIFICATIONS

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

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, and of no financial interest, dated June 23, 2025, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **23-0803.04**, issued to E.S. Windows, LLC, for their Series "**1100WW**" Aluminum Single Hung Window - S.M.I., approved on 09/07/23 and expiring on 12/13/28.



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 26-0715.06

Expiration Date: December 13, 2028

Approval Date: August 13, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W12-41 Rev I**, titled "Series-1100WW Alum. Single Hung Window (S.M.I)", sheets 1, 1.1, 2 and 3 through 11 of 11, dated 07/20/12 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. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**", 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**", expiring on 07/08/29.
3. Notice of Acceptance No. **23-0713.13** issued to **Chang Chun Chemical Corporation** for their "**WINLITE® PVB Film Glass Interlayer**", expiring on 10/08/25.

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. 25-0728.08, updates to FBC 2026, expiring on 12/13/28.*



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 26-0715.06

Expiration Date: December 13, 2028

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.

SERIES-1100WW ALUMINUM SINGLE HUNG WINDOW

THESE WINDOWS CAN BE INSTALLED AS SINGLE UNITS OR SIDE BY SIDE COMBINATION OF TWO OR MORE UNITS USING MULLIONS IN BETWEEN. FOR SINGLE HUNG WINDOW CAPACITY SEE SHEET 2. FOR SINGLE HUNG OVER FIXED WINDOW CAPACITY SEE SHEET 3. FOR SIDE BY SIDE UNITS SEE SHEET 4 FOR WINDOW MULLION CAPACITY. LOWER DESIGN PRESSURES FROM CHARTS ABOVE 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)'.

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-071506
Expiration Date 12/13/2028
By *[Signature]*
Miami Dade Product Control

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.

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.



JUL 09 2026

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

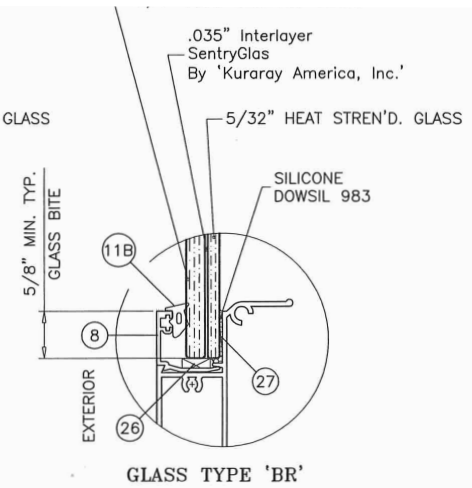
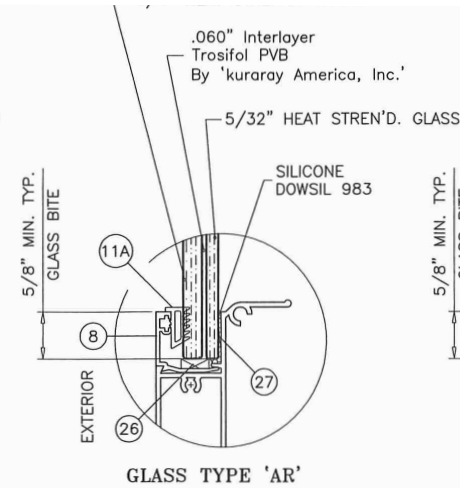
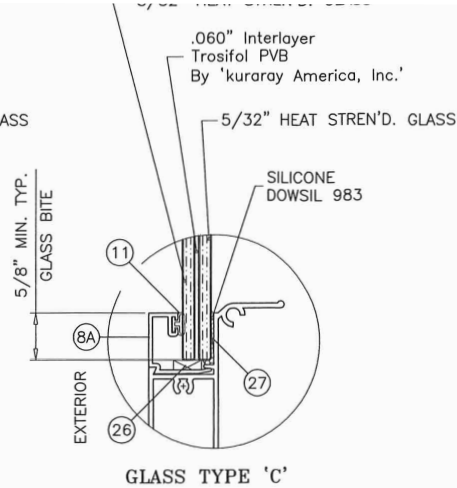
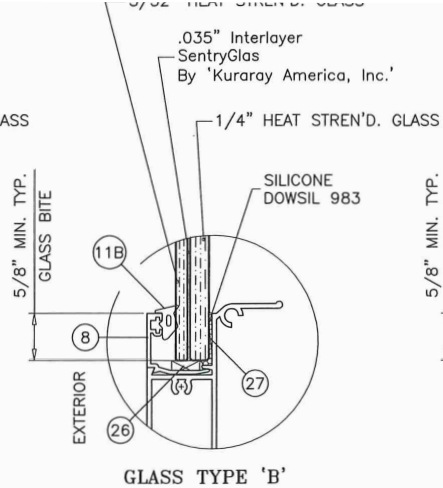
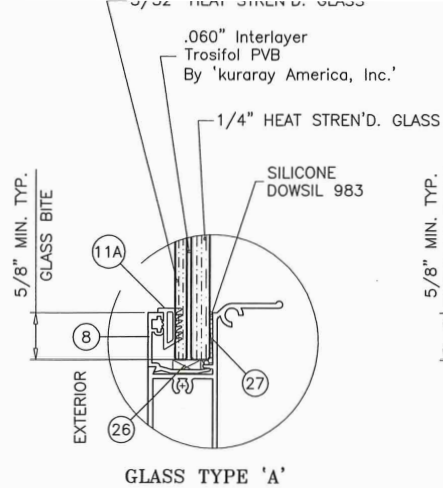
SERIES-1100WW ALUM SINGLE HUNG WINDOW (S.M.I.)

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

no.	date	by	description
E	08.24.18		GLASS OPTIONS ADDED
F	11.18.20		UPDATED TO 2020 FBC
G	07.06.23		UPDATED TO 2023 FBC
H	08.12.24		WINDITE INTERLAYER ADDED
I	07.06.26		UPDATED TO 2026 FBC

date:	07-20-12
scale:	1/2"=1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.	W12-41
sheet	1 of 11

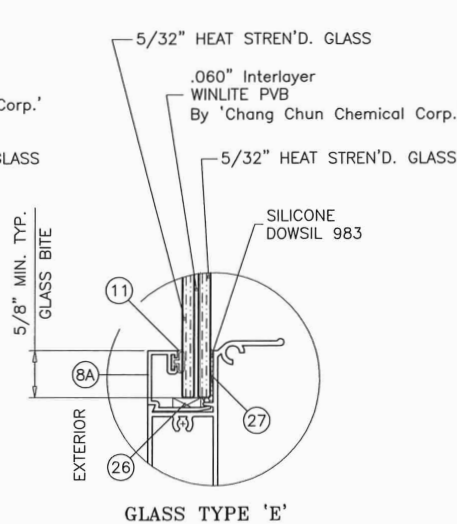
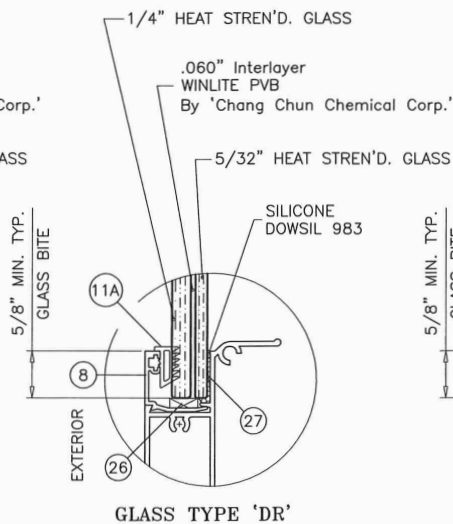
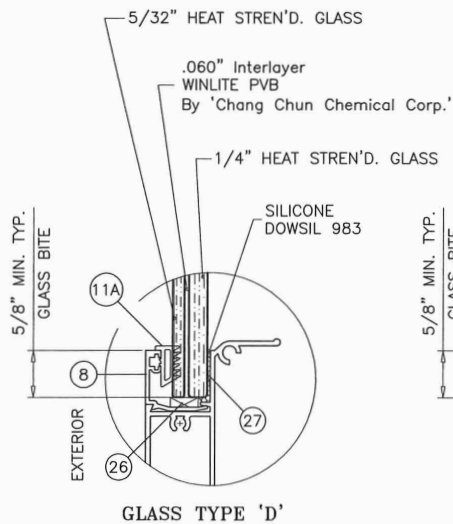


GLASS TYPES 'A' & 'B'

MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
- 140.0 PSF

GLASS TYPE 'C', 'AR' & 'BR'

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
- 120.0 PSF



GLASS TYPE 'D', 'DR' & 'E'

MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
- 120.0 PSF

GLAZING OPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 26-0715-06
Expiration Date 12/13/2028
By Iskhan J. Chander
Miami Dade Product Control



JUL 09 2026

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 W12-41

SERIES-1100WW 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

revisions:	no	date	by	description

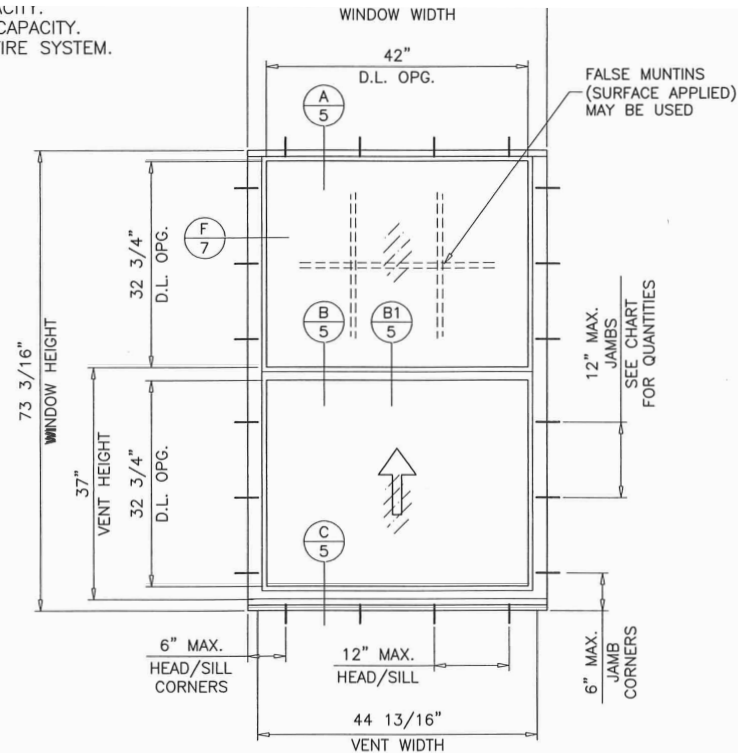
date: 07-20-12
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W12-41
sheet 1.1 of 11

WINDOW DIMS.		ANCHORS TYPE 'A'				ANCHORS 'C'			
		1/4" MAX. SHIM		3/8" MAX. SHIM		1/2" MAX. SHIM		3/8" MAX. SHIM	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	38-3/8" (4)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
30"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
37"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
19-1/8"	50-5/8" (5)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
30"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
37"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
19-1/8"	63" (6)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
30"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
37"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
19-1/8"	72" (6)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
30"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
37"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0

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

SEE SHEET 1 FOR GLASS TYPES AND DESIGN LOAD CAPACITY.
SEE CHART BELOW FOR SINGLE HUNG WINDOW ANCHOR CAPACITY.
LOWER VALUES FROM THESE CHARTS WILL APPLY TO ENTIRE SYSTEM.



TYPICAL ELEVATION

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (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)

TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 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 = 1-1/4" 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.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 26-0715.06
 Expiration Date 12/13/2028
 By Ishtiaq I. Chaudhry
 Miami Dade Product Control



JUL 09 2026

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 W12-41

SERIES-1100WW 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

revisions:	no	date	by	description
	E	08.24.18		NO CHANGE THIS SHEET
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	G	07.06.23		NO CHANGE THIS SHEET
	H	08.12.24		NO CHANGE THIS SHEET
	I	07.06.26		NO CHANGE THIS SHEET

date: 07-20-12
 scale: 1/2"=1'-0"
 dr. by: TARIQ
 chk. by:

drawing no.
W12-41
 sheet 2 of 11

WINDOW DIMS.		ANCHORS TYPE 'A'				ANCHORS 'C'			
		1/4" MAX. SHIM		3/8" MAX. SHIM		1/2" MAX. SHIM		3/8" MAX. SHIM	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36"	60"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"	72"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"	84"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"	90"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"	96"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"	102"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"	108"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0

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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
TYPE 'A'— 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ 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)

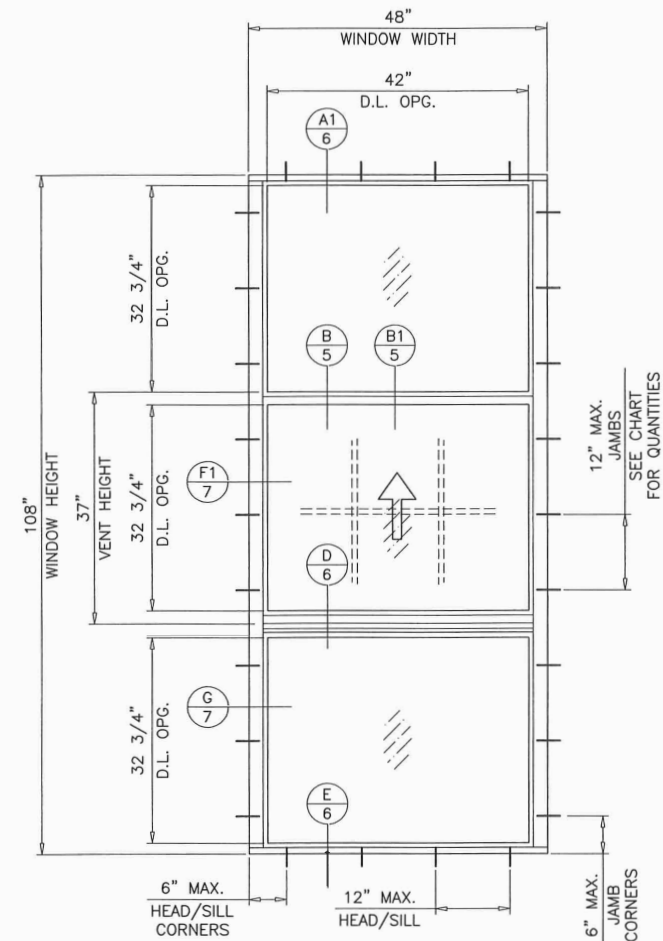
TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1-1/4" 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.

SEE SHEET 1 FOR GLASS TYPES AND DESIGN LOAD CAPACITY.
 SEE CHART BELOW FOR S.H. OVER FIXED WINDOW ANCHOR CAPACITY.
 LOWER VALUES FROM THESE CHARTS WILL APPLY TO ENTIRE SYSTEM.



TYPICAL ELEVATION

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.
 WITH MINIMUM SILL HEIGHT OF 36 IN. ABOVE WALKING SURFACE.

PRODUCT REVISED
 as complying with the Florida
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 Acceptance No. **26-0715-06**
 Expiration Date **12/13/2023**
 By **Isaac J. Chant**
 Miami Dade Product Control



JUL 09 2026

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 MIAMI, FLORIDA 33173
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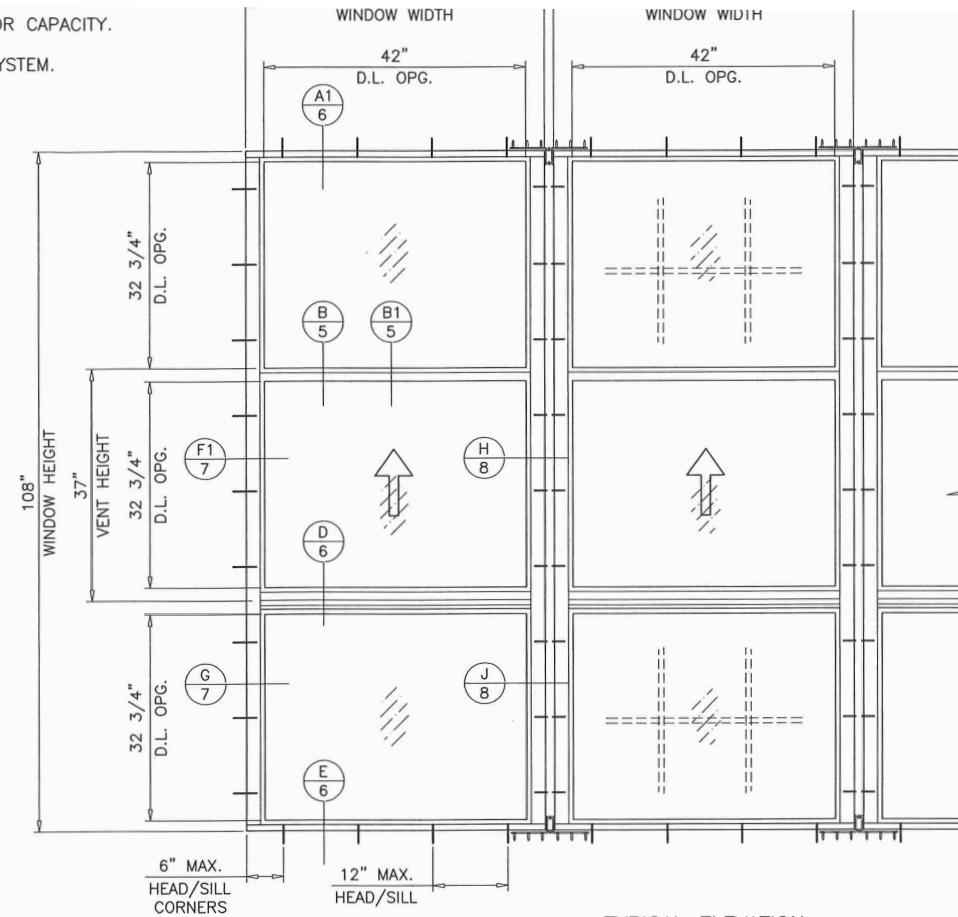
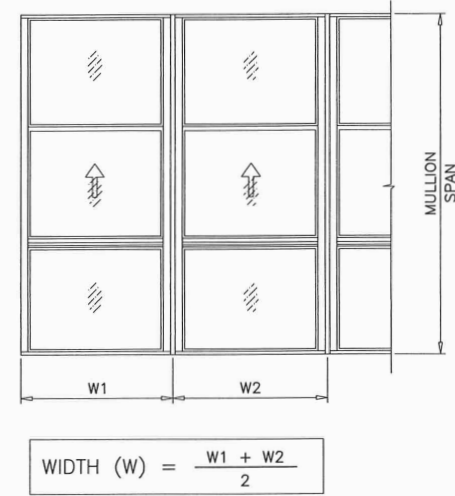
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date: 07-20-12
 scale: 1/2" = 1'-0"
 dr. by: TARIQ
 chk. by:

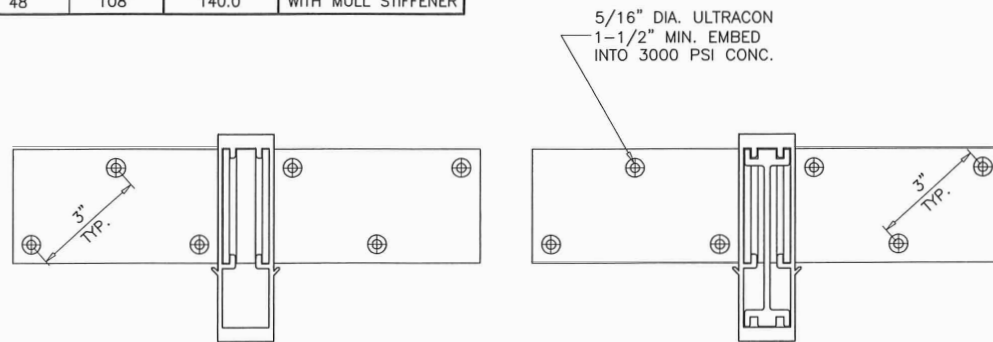
drawing no.
W12-41
 sheet 3 of 11

SINGLE HUNG OVER FIXED WINDOW		
WINDOW DIMS.		6 ANCHORS @ MULL END
WIDTH (W)	MULL SPAN	EXT. (+) INT. (-)
24"	60"	140.0
30"		140.0
36"		140.0
42"		140.0
48"		140.0
24"	72"	140.0
30"		140.0
36"		140.0
42"		140.0
48"		140.0
24"	84"	140.0
30"		140.0
36"		140.0
42"		140.0
48"		140.0
24"	90"	140.0
30"		140.0
36"		140.0
42"		140.0
48"		140.0
24"	96"	140.0
30"		140.0
36"		140.0
42"		140.0
48"		140.0
24"	102"	140.0
30"		140.0
36"		140.0
42"		140.0
48"		130.7
24"	108"	140.0
30"		140.0
36"		140.0
42"		129.1
48"		114.8
48"	108"	140.0

SEE SHEET 1 FOR GLASS TYPES AND DESIGN LOAD CAPACITY.
SEE CHART ON SHEET 3 FOR S.H. OVER FIXED WINDOW ANCHOR CAPACITY.
SEE CHARTS BELOW FOR WINDOW MULLION CAPACITY.
LOWER VALUES FROM THESE CHARTS WILL APPLY TO ENTIRE SYSTEM.



TYPICAL ELEVATION
SIDE BY SIDE UNITS



MULLION WITHOUT STIFFENER

MULLION WITH STIFFENER

INSTALL CLIP ANGLES DIRECTLY TO CONC. WITHOUT SHIM SPACE
NOTCH WOOD BUCKS TO ACCOMMODATE CLIP ANGLES

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Expiration Date 12/13/2028
By: [Signature]
Miami Dude Product Control



JUL 09 2026

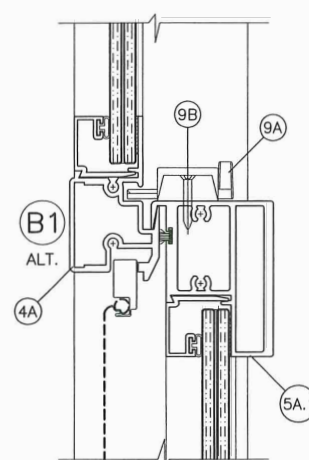
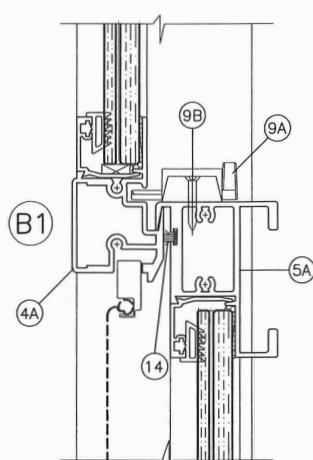
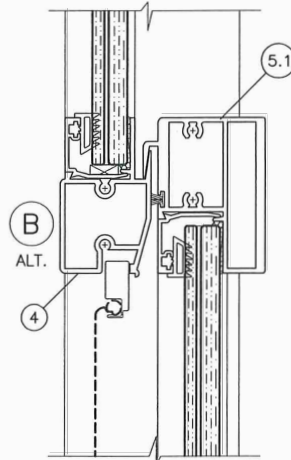
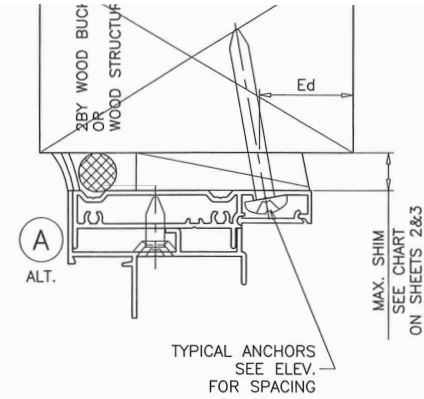
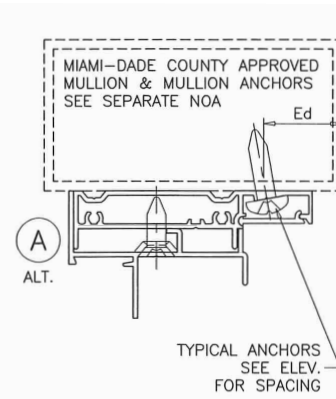
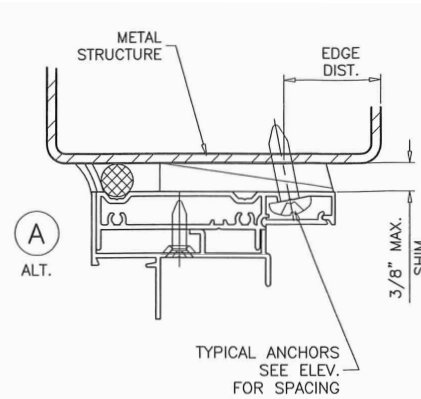
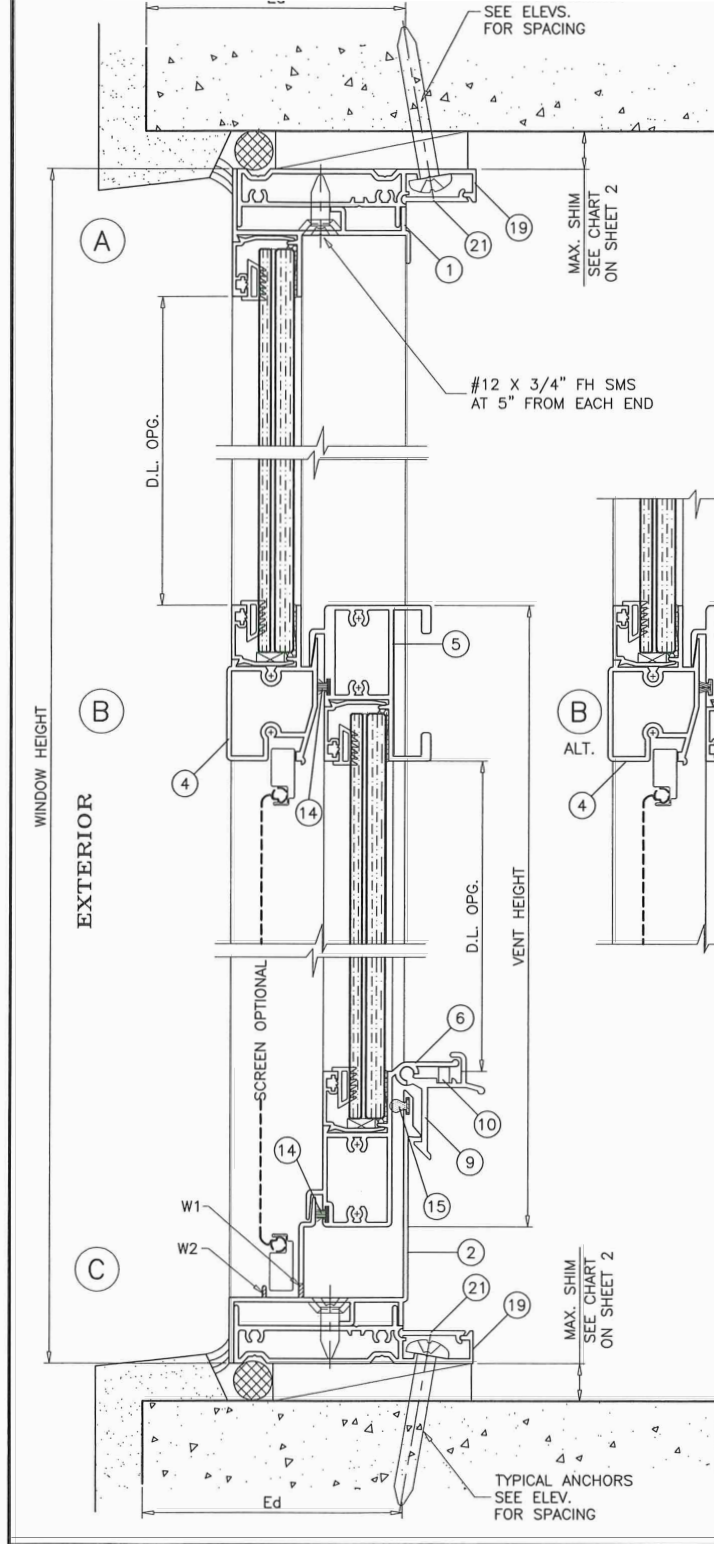
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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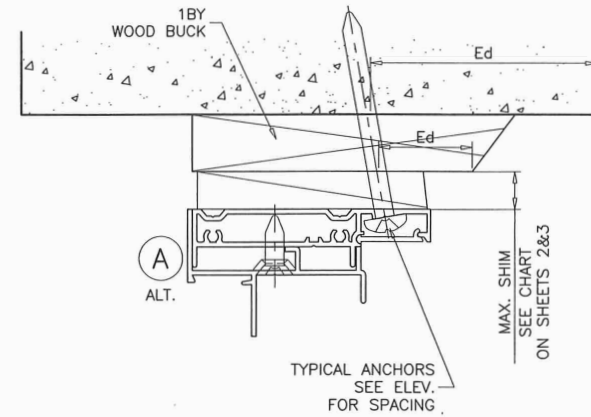
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scale: -
dr. by: TARIQ
chk. by:

drawing no.
W12-41
sheet 4 of 11



SWEEP LATCHES
OPTIONAL TO SPRING LOADED LATCHES



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By **[Signature]**
Miami Dade Product Control

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

WEEPHOLES:

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



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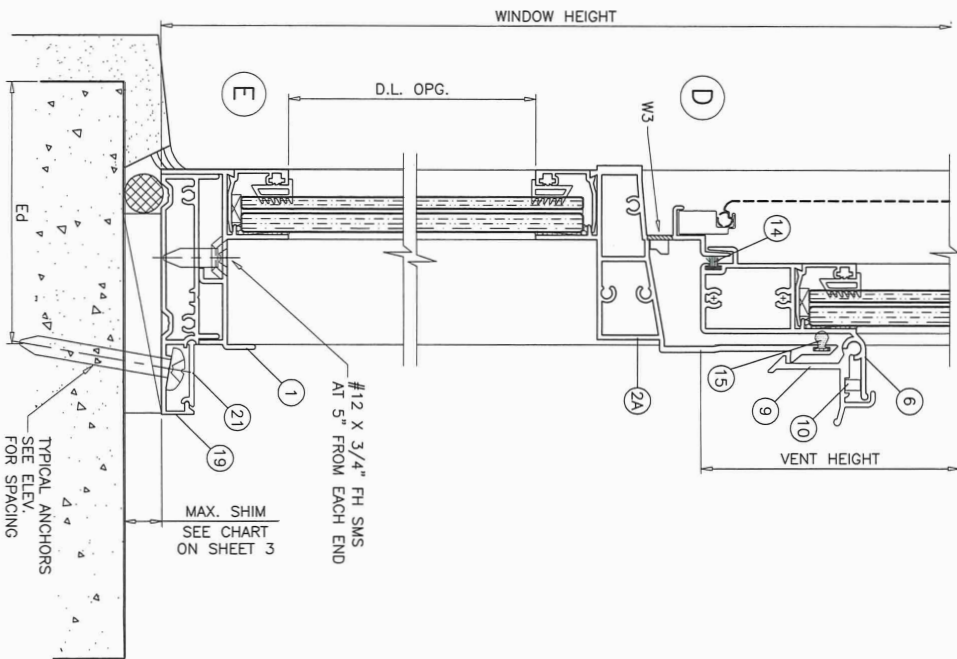
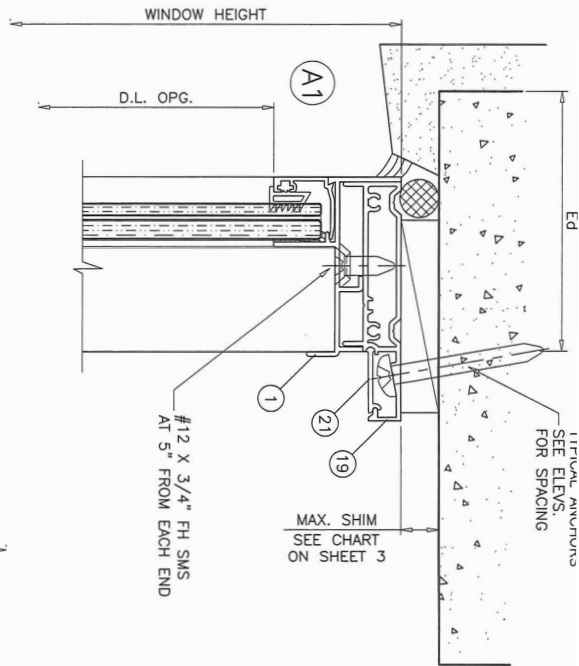
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dr. by: TARIQ
chk. by:

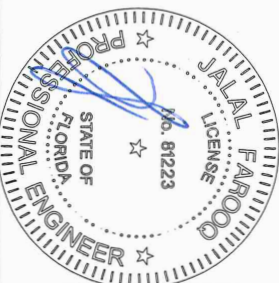
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W12-41
sheet 5 of 11



WEEPHOLES:

W3 = 5/16" WEEPHOLES AT 6" FROM EACH END
WITH PLASTIC BAFFLE

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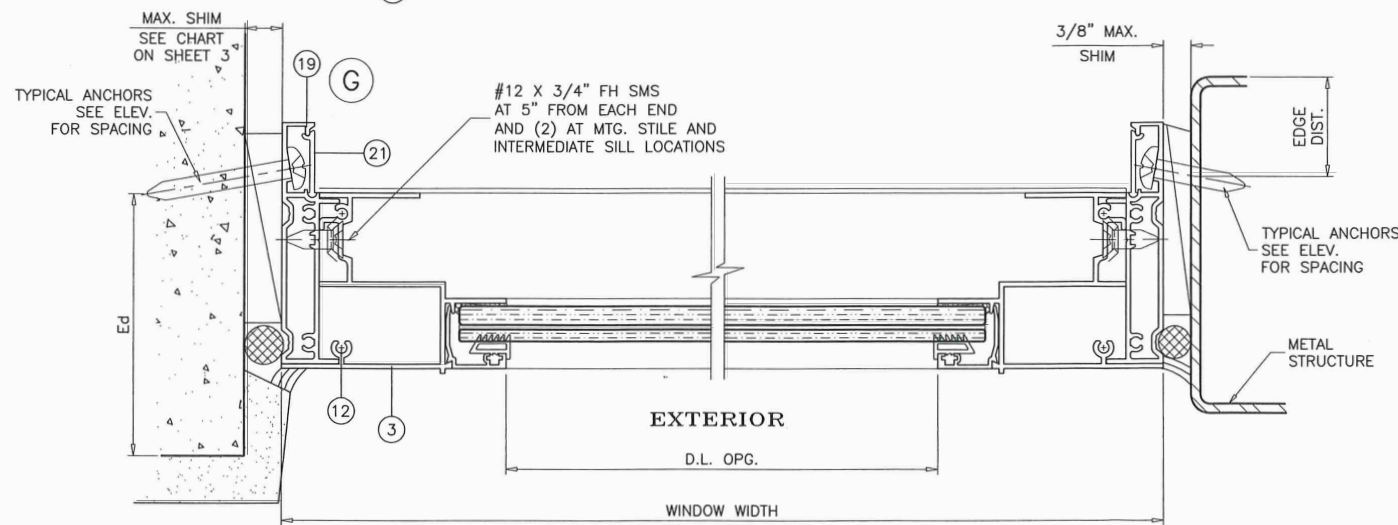
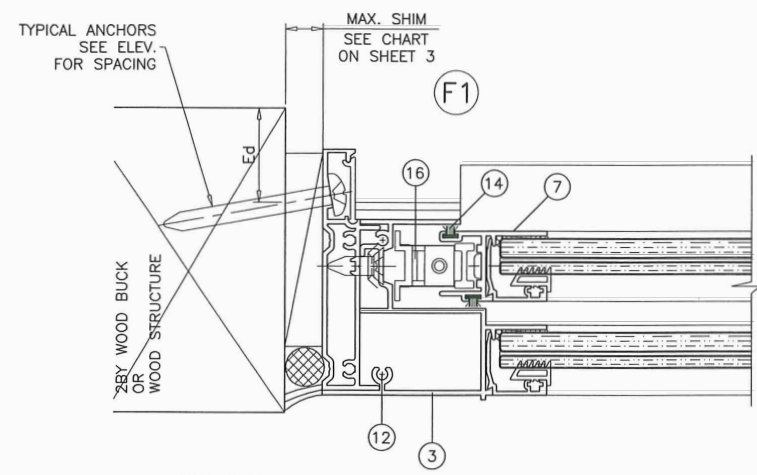
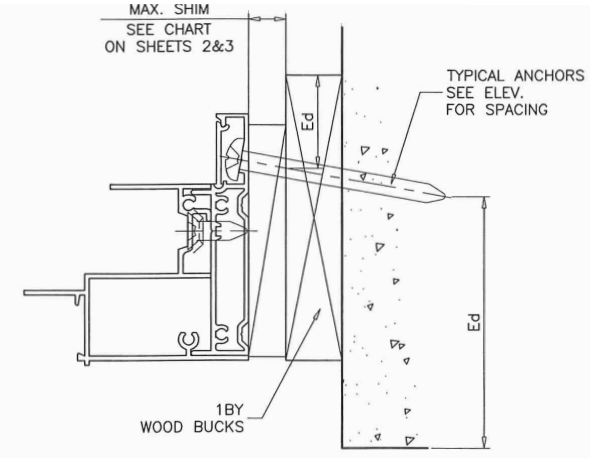
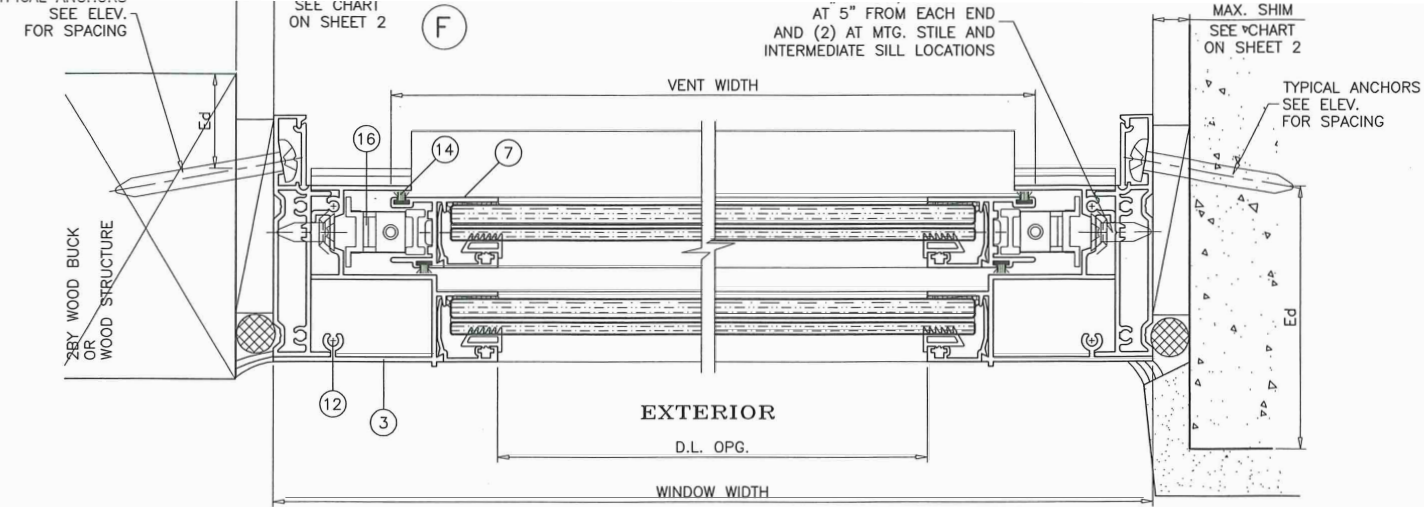
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W12-41
sheet 6 of 11

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COMP-ANL\W12-41



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 By Blong L. Chong
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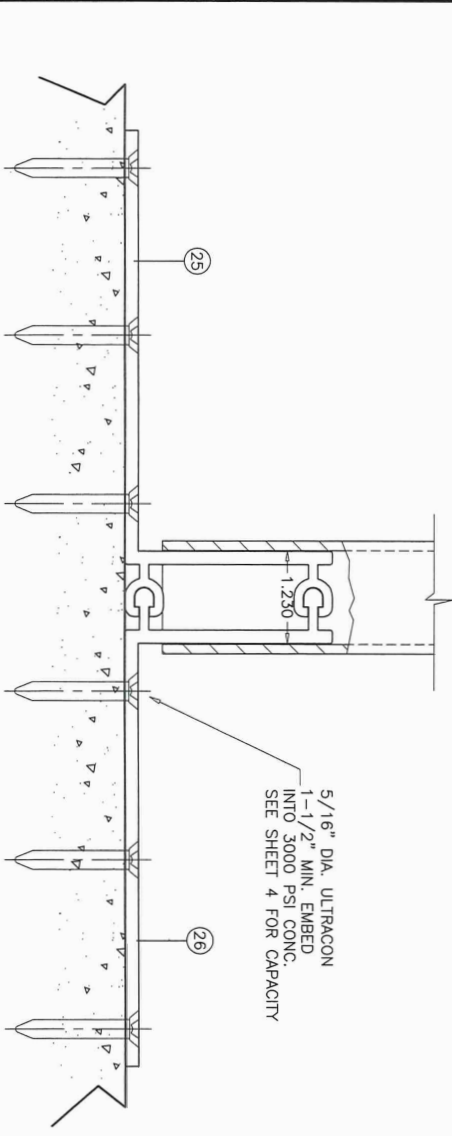
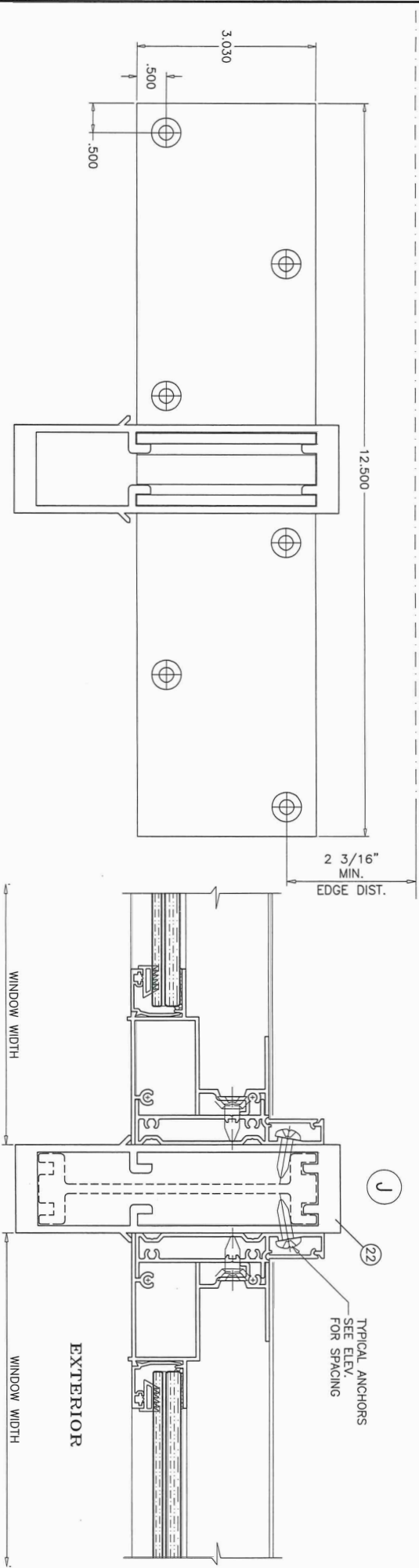
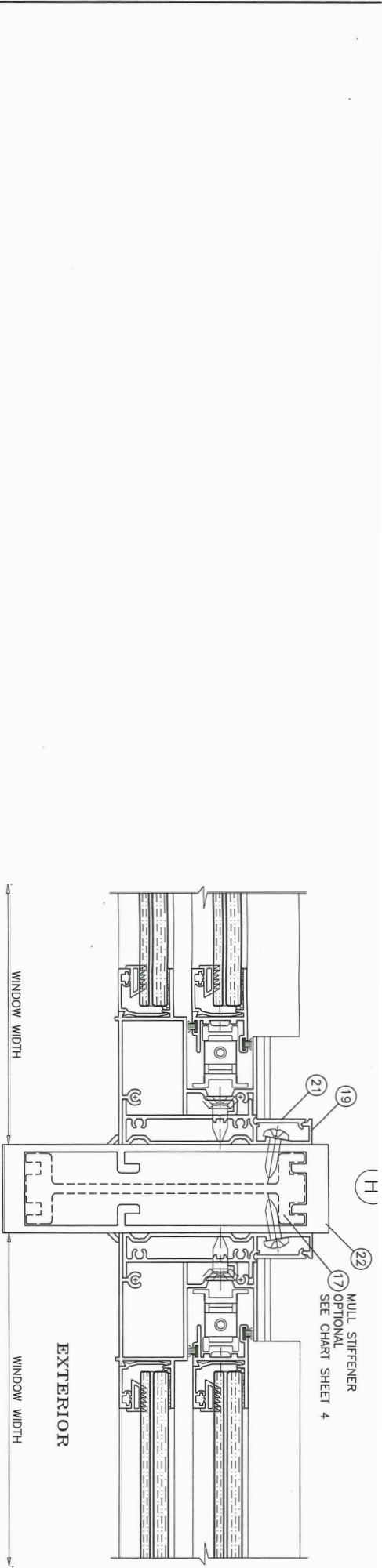
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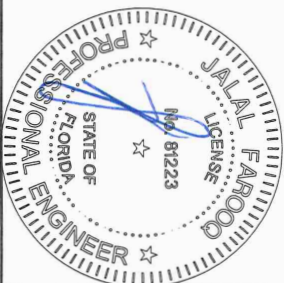
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 dr. by: TARIQ
 chk. by:

drawing no.
W12-41
 sheet 7 of 11



JUL 09 2026



PRODUCT REVISED
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Building Code
Acceptance No 24-0715.66
Expiration Date 12/13/2028
By 164-21-11-11
Miami Dade Product Control

Sheet 8 of 11

W12-41

drawing no.

date: 07-20-12

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

revisions:

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AL-FAROOQ CORPORATION

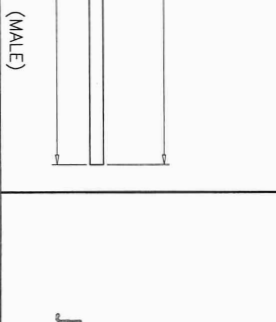
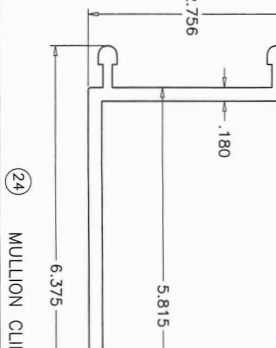
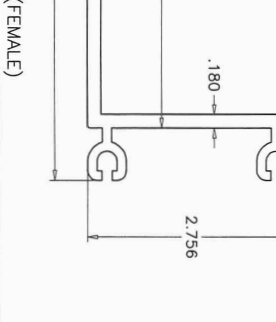
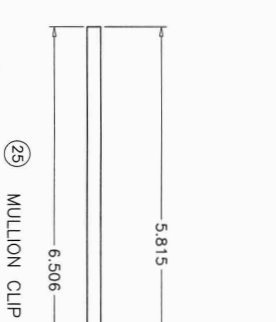
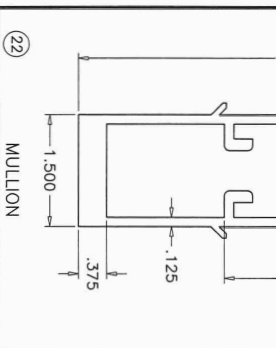
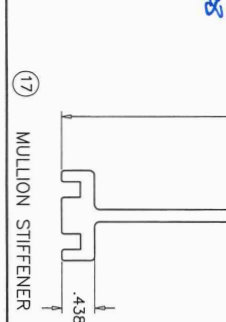
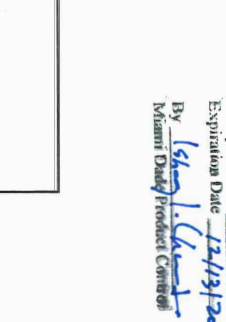
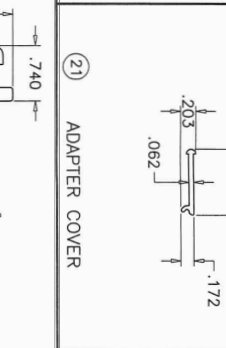
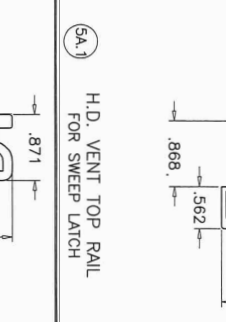
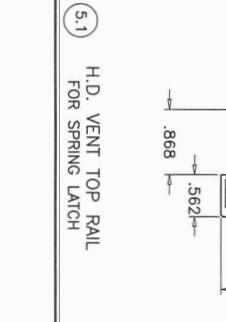
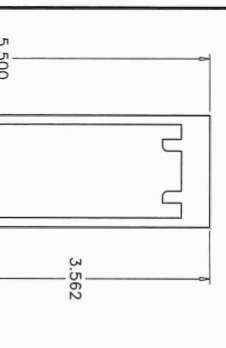
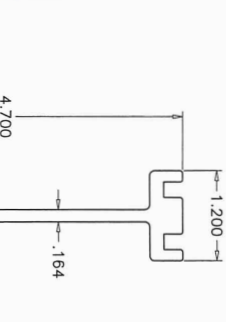
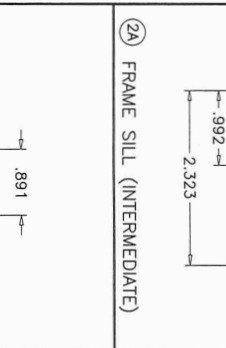
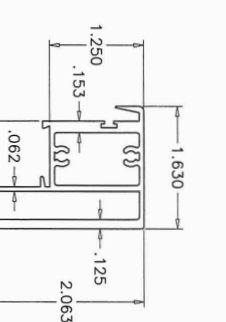
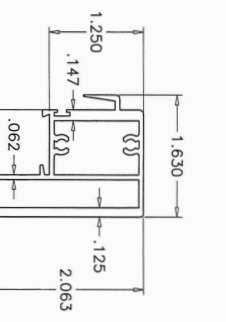
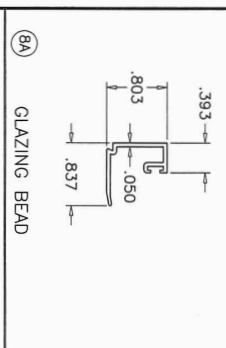
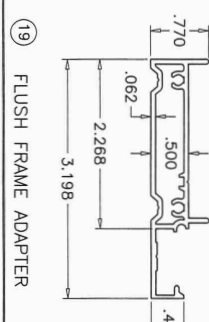
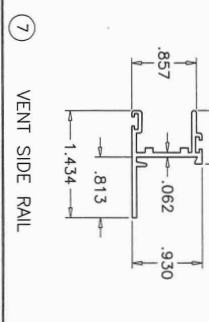
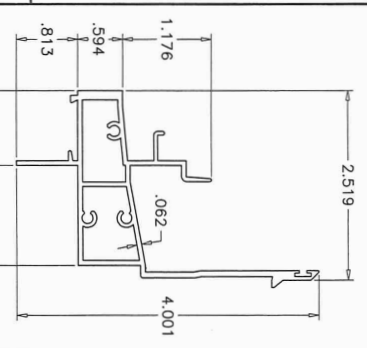
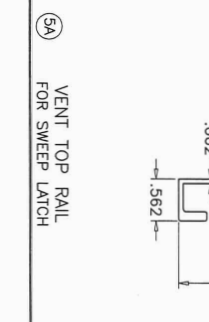
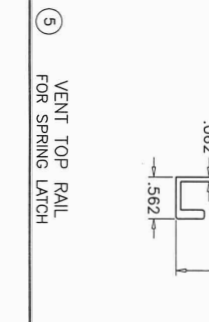
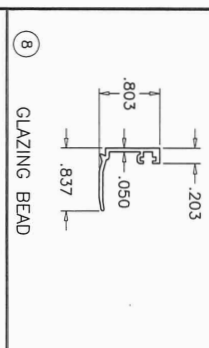
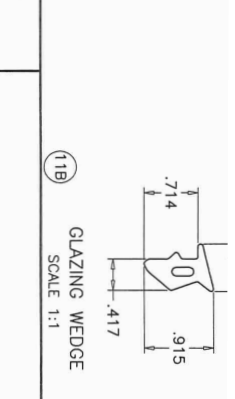
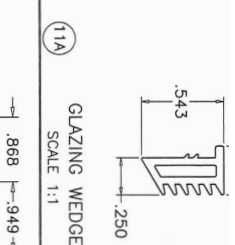
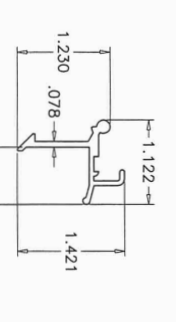
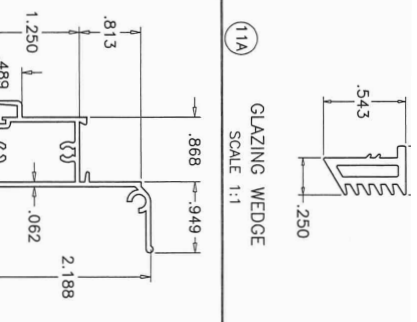
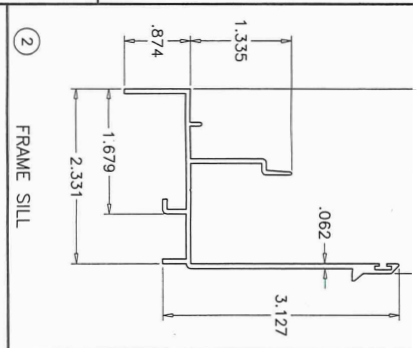
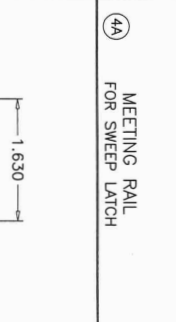
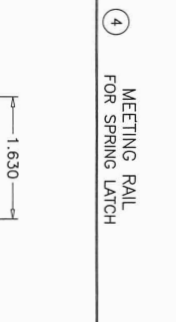
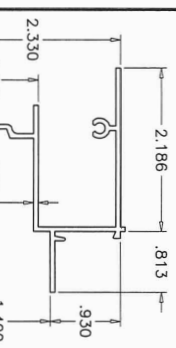
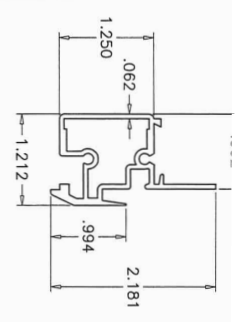
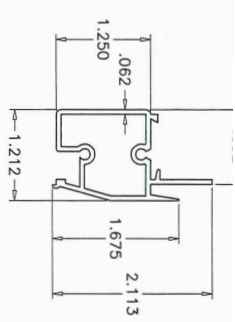
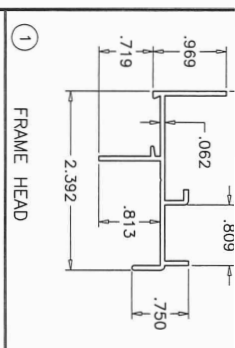
ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

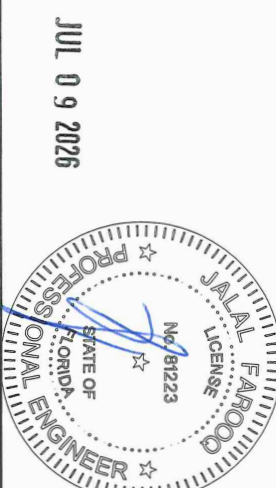
MIAMI, FLORIDA 33173 (C.A.N. 3538)

TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W12-41



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-0715104
Expiration Date 12/11/2008
By *[Signature]*
Miami Dade Product Control



date: 07-20-12
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

no	date	by	description
E	08.24.18		NO CHANGE THIS SHEET
F	11.18.20		UPDATED TO 2020 FBC
G	07.06.23		NO CHANGE THIS SHEET
H	08.12.24		NO CHANGE THIS SHEET
I	07.06.26		NO CHANGE THIS SHEET

SERIES-1100WW 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

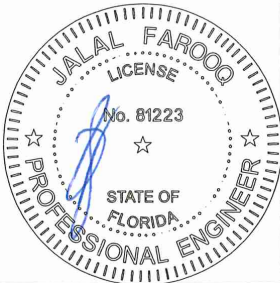
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W12-41

1	ES1001	1	FRAME HEAD	6063-T6	-
2	ES1101	1	FRAME SILL	6063-T6	-
2A	ES1055	1	FRAME SILL (INTERMEDIATE)	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	-
5	ES2004	1	VENT TOP RAIL (FOR SPRING LATCH)	6063-T6	-
5.1	ES2004A	1	VENT TOP RAIL (FOR SPRING LATCH)	6063-T6	-
5A	ES1053	1	VENT TOP RAIL (FOR SWEEP LATCH)	6063-T6	-
5A.1	ES1053A	1	VENT TOP RAIL (FOR SWEEP LATCH)	6063-T6	-
6	ES1006	1	VENT BOTTOM RAIL	6063-T6	-
7	ES1007	2	VENT SIDE RAIL	6063-T5	-
8	ES1017	AS REQD.	GLAZING BEAD	6063-T5	-
8A	ES1102	AS REQD.	GLAZING BEAD	6063-T5	-
9	ES1009	2/VENT	SPRING LOADED VENT LATCH	6063-T5	AT 6" FROM ENDS
9A	-	2/VENT	SWEEP LATCH	ZAMAK	AT 6" FROM ENDS
9B	#8 X 1"	2/LATCH	LATCH INSTALLATION SCREWS	-	FH SMS
10	ES1012	1/LATCH	LATCH SPRING	ST. STEEL	-
11	27-425	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 60±5 SHORE 'A'
11A	ES1010	AS REQD.	GLAZING WEDGE	SOFT PVC	DUROMETER 65±5 SHORE 'A'
11B	NP-200-G02	AS REQD.	GLAZING WEDGE	EPDM	DUROMETER 65±5 SHORE 'A'
12	#8 X 1"	20	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
13	ES1011	2/VENT	SASH CAM	CELCON	-
14	23211NG	AS REQD.	PILE W'STRIPPING WITH PLASTIC FIN	POLY PROPYLENE	-
15	Q300X190	AS REQD.	FRAME SILL W'STRIPPING	-	Q-LON2
16	SERIES 86	2/ VENT	BLOCK & TACKLE BALANCE		CALDWELL
17	ES1058	AS REQD.	MULLION STIFFENER	6063-T6	-
18	ES1013	2	SASH STOP	-	-
19	ES1056	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
20	-	1	5/16" BOX SCREEN	-	OPTIONAL
21	ES5016	AS REQD.	ADAPTER COVER	6063-T5	-
22	ES1057	AS REQD.	MULLION	6063-T6	-
24	ES1059	AS REQD.	MULLION CLIP (MALE)	6063-T6	-
25	ES1060	AS REQD.	MULLION CLIP (FEMALE)	6063-T6	-
26	27-372	2/ LITE	SETTING BLOCK, 7/16" X 3/16" X 3-1/2" LONG	EPDM	DUROMETER 75±5 SHORE A
27	80-394	8/ LITE	SPACER, 1/32" X 1/2" X 4" LONG	EPDM	AT 6" FROM GLASS ENDS

SEALANT:

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 26-0715-06
Expiration Date 12/13/2028
By Khalid Chaudhry
Miami Dade Product Control



JUL 09 2026

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

SERIES-1100WW 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

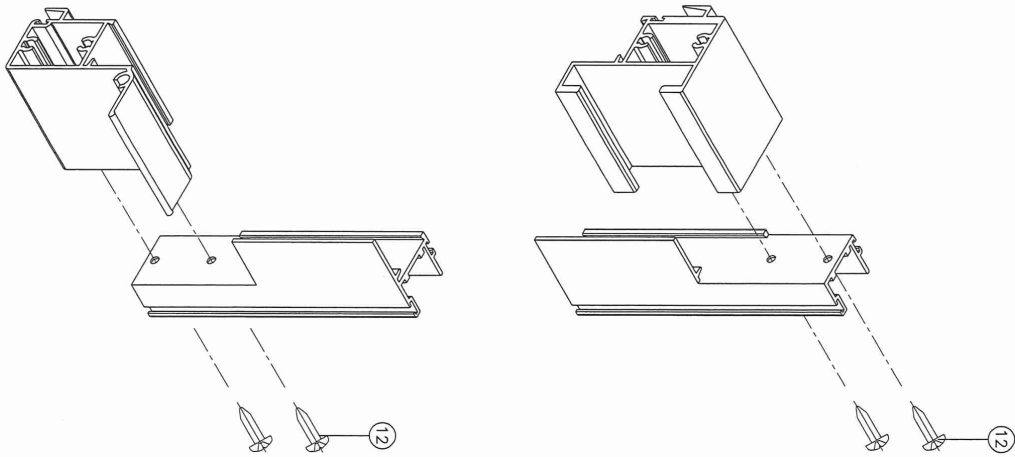
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no. date by description
E 08.24.18 NO CHANGE THIS SHEET
F 11.18.20 UPDATED TO 2020 FBC
G 07.06.23 NO CHANGE THIS SHEET
H 08.12.24 NO CHANGE THIS SHEET
I 07.06.26 NO CHANGE THIS SHEET

date: 07-20-12
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

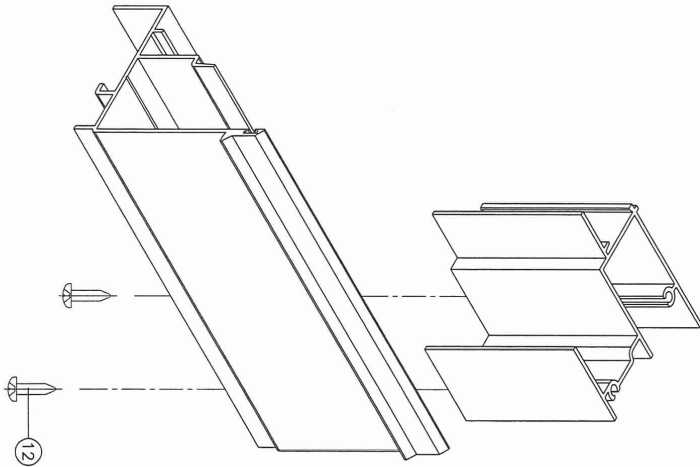
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W12-41
sheet 10 of 11

COMP-ANL\W12-41

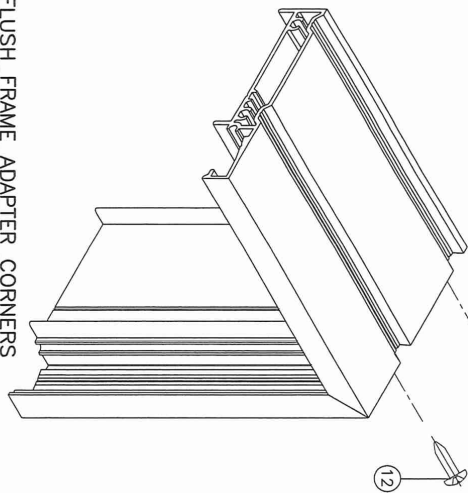
VENT TOP & BOTTOM CORNER



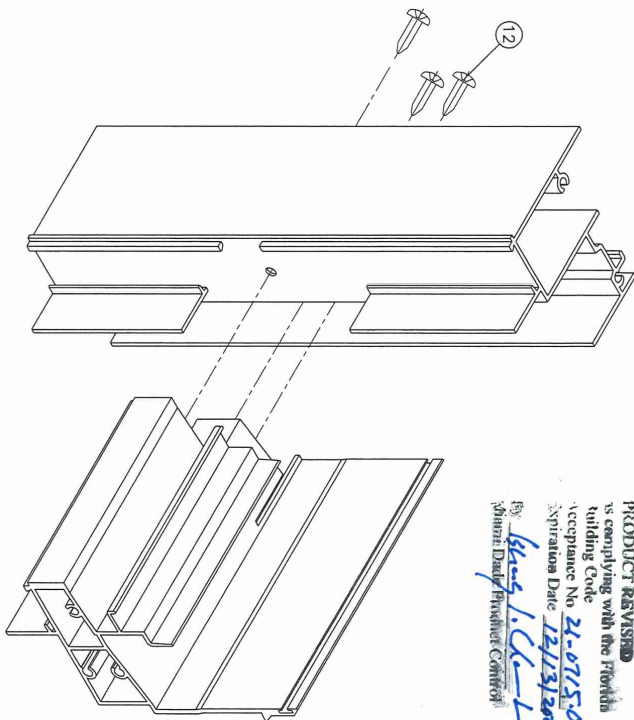
FRAME TOP & BOTTOM CORNERS



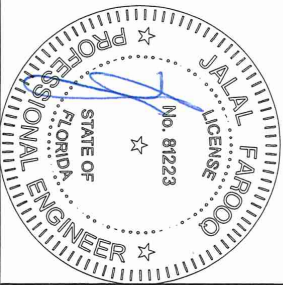
FLUSH FRAME ADAPTER CORNERS



INTERMEDIATE SILL CORNER



JUL 09 2026



PRODUCT REVISED
is complying with the Florida
Building Code
Acceptance No. 24-071504
Expiration Date 12/13/2028
by *Khayal I. Chakraborty*
Shrimp Design Product Control

date: 07-20-12
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
drawing no. W12-41
sheet 11 of 11

revisions:			
no	date	by	description
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9360 SUNSET DRIVE, SUITE 220	
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COMP-ANL\W12-41	