



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](http://www.miamidade.gov/economy)

**ESR Impact System, LLC**  
12400 S.W. 134 Ct., Suite 8  
Miami, FL. 33186

**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 “3000” Aluminum Outswing French Doors w /wo Sidelites

**APPROVAL DOCUMENT:** Drawing No. **W 24-92D** ( former W04-51 Rev O), titled “Series -3000 Alum Outswing French Doors (LMI)”, sheets 1, 2, 2.1, 2.2 through 5, 5.1, 6, 6.1 and 7 of 7, prepared by Al-Farooq Corporation, dated DEC 05, 2024, 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**

**Limitations:**

1. Lower Design Pressures (DP) of Doors, sidelites, hardware, glass and threshold (sill) options shall control.
2. See sheets **1 & 2** for doors, **2.1** for single sidelite and **2.2** for doors w/ sidelites (Reinf/unRinf) mullion options within tested frame area.
3. The Water Rating +DP with STD sill= **+70 PSF (X & XX)** and Hi-Rise sill = **+90 PSF (XX)** and **+100 PSF(X)**.
4. The frames of alternate size must not exceed **97.58 ft<sup>2</sup>**, nor panel tested area and max. Panel height.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Barranquilla, Columbia, state and series and following statement: "Miami-Dade County Product Control Approved", 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 #23-0714.08 (DA Energia Solar, S.A. & PLA ES Windows, LLC)** 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 **Ishaq I. Chanda, P.E.**

*Ishaq I. Chanda*



NOA No. 24-1219.02  
Expiration Date: December 20, 2028  
Approval Date: February 13, 2025  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted in previous NOAs'**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (***Submitted under NOA # 09-0825.04***)
2. Drawing No. W04-51 Rev M, titled "series -3000 Alum Outswing French Doors (LMI)", sheets 1, 2, 2.1, 2.2 through 5, 5.1, 6, 6.1 and 7 of 7, prepared by Al-Farooq Corporation, dated 06-10-04 and last revised on DEC 05, 2018, signed and sealed by Javad Ahmad, 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) Water Resistance Test, per FBC, TAS 202-94(see sheet 2)  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawing and installation diagram of aluminum outswing French door w/ Sidelite (OXX), prepared by Intertek/ Architectural Testing, Inc., No. **F2673.01-450-18**, dated 11/16/15, signed and sealed by Joseph A. Reed, P.E. (***Submitted under NOA # 16-0316.06***)

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94(see sheet 2)  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawing and installation diagram of aluminum outswing French door w/ Sidelites, prepared by Fenestration Testing Laboratory, Inc., No. **FTL-5938**, dated 10/01/09, signed and sealed by Julio E. Gonzales, P.E. **Note:** This test report has been revised, reviewed, signed and sealed on 03/29/10 by Jorge A. Causo, P.E. (***Submitted under NOA #09-1217.03***)

3. Additional Test Reports: Test reports issued by Fenestration Testing Laboratory, Inc Test report No(s) **FTL-3947 & FTL-3955** per TAS 201, 202 & 202-94, dated 02/04/04, both signed and sealed by Edmundo J. Largaespada, P.E. and test report No. **FTL-5164** per TAS 201/203-94, issued by Fenestration Testing Laboratory, Inc, dated 08/01/07, signed & sealed by Carlos S. Roinda, P. E. (***Submitted under NOA # 09-0825.04***)

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(see sheet 2)  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawing and installation diagram of aluminum Single and double doors outswing French door w/ Sidelite (OXX), prepared by Blackwater Testing, Inc., No. **BT-ESW-16-011**, dated 03/16/17, signed and sealed by Constantin Bortes, P.E. (***Submitted under NOA # 17-1226.11***)

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1219.02**  
**Expiration Date: December 20, 2028**  
**Approval Date: February 13, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis complying with FBC (2017), prepared by Al Farooq Corporation, dated 09/15/17, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 & -09.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. NOA No. **17-0808.02** issued to Kuraray America, Inc. for the “**Sentry Glass ® Interlayer**”, expiring on 07/4/23.
2. NOA No. **16-117.01** issued to **Kuraray America, Inc.**, Inc. for the “Kuraray Trofossil Ultra clear and color PVB Interlayer, expiring on 07/08/19.

**F. STATEMENTS**

1. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR).
2. Statement letter of conformance to FBC 2017 (6<sup>th</sup> Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 09/15/17, signed and sealed by Javad Ahmad, P.E.

**G. OTHER**

1. This NOA **revises** and **renews** NOA # **17-1114.03**, expiring 12/16/23.

**2. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **W04-51 Rev N**, titled “Series -3000 Alum Outswing French Doors (LMI)”, sheets 1, 2, 2.1, 2.2 through 5, 5.1, 6, 6.1 and 7 of 7, prepared by Al-Farooq Corporation, dated 06/10/2004 and last revised on 01/11/2021, signed and sealed by Jalal Farooq, P.E.

**B. TEST**

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. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.
2. Notice of Acceptance No. **20-0915.19** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 07/04/23.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, with **FBC 7th Edition (2020)**, and of no financial interest, dated 01/08/2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHER**

1. This NOA **revises** NOA # **17-1226.11**, expiring 12/16/23.

*Ishaq I. Chanda*  
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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1219.02**  
**Expiration Date: December 20, 2028**  
**Approval Date: February 13, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **W04-51 Rev O**, titled “Series -3000 Alum Outswing French Doors (LMI)”, sheets 1, 2, 2.1, 2.2 through 5, 5.1, 6, 6.1 and 7 of 7, prepared by Al-Farooq Corporation, dated 06/10/2004 and last revised on JUL 07, 2023, signed and sealed by Jalal Farooq, P.E.

**B. TEST**

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. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.
2. Notice of Acceptance No. **20-0915.19** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 07/08/24.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 07/14/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E
2. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, with **FBC 7th Edition (2020)**, and of no financial interest, dated 01/08/2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHER**

1. This NOA **renews** NOA # **21-0113.10**, and updates to FBC 2023, expiring 12/16/28.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1219.02**  
**Expiration Date: December 20, 2028**  
**Approval Date: February 13, 2025**



**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4 New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **W 24-92D** (former W04-51 Rev O), titled “Series -3000 Alum Outswing French Doors (LMI)”, sheets 1, 2, 2.1, 2.2 through 5, 5.1, 6, 6.1 and 7 of 7, prepared by Al-Farooq Corporation, dated DEC 05, 2024, signed and sealed by Jalal Farooq, P.E.

**B. TEST (submitted under previous approvals)**

1. None.

**C. CALCULATIONS (submitted under previous approvals)**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **24-0205.06** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/29.
2. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 02/08/248.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 11/26/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E
2. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 07/14/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (submitted under previous approvals)
3. Distribution Agreement dated JAN 22, 2025, between Energia Solar SA, Barranquilla, Columbia and ESR Impact System, LLC, Miami, USA, signed by Andrea Zanbrano, General Counsel and Raul Losada, President, on behalf of their companies.
4. Private Label agreement as is filed as part of application, retained as part of documentation.
5. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR)(submitted under previous approvals).

**G. OTHER**

1. This NOA revises NOA #**23-0714.08** (PVT ES Windows, LLC & DA Energia Solar, S.A.), expiring 12/20/2028.
2. Notice of Acceptance No. **23-0714.08** issued to E. S. Windows, LLC, expiring 12/20/2028.

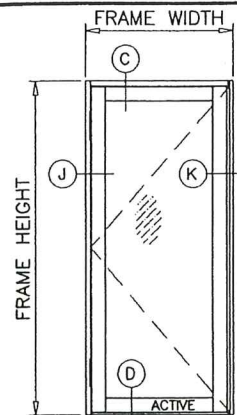
*Ishaq I. Chanda*

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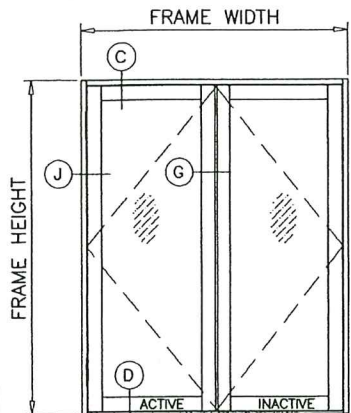
**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 24-1219.02**  
**Expiration Date: December 20, 2028**  
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LOCK OPTION 1 & 2



LOCK OPTION 1 & 2

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

**D.L. OPENINGS:**

D.L.O. HEIGHT = LEAF HEIGHT - 8.1875" (STD. BOT. RAIL)  
D.L.O. HEIGHT = LEAF HEIGHT - 11.9375" (HI RISE BOT. RAIL)  
D.L.O. WIDTH = LEAF WIDTH - 8.625"

**WIDTHS:**

FRAME WIDTH	LEAF WIDTH	DAYLITE OPG.
31-1/2"	28-11/16"	20-1/16"
37-1/2"	34-11/16"	26-1/16"
39-5/8"	36-13/16"	28-3/16"
59-3/4"	28-11/16"	20-1/16"
71-3/4"	34-11/16"	26-1/16"
76"	36-13/16"	28-3/16"

NOTE:  
DOOR WIDTH AND HEIGHT MUST  
COMPLY WITH EGRESS REQUIREMENTS  
PER FBC WHERE REQUIRED.

**HEIGHTS:**

FRAME HEIGHT	LEAF HEIGHT	DAYLITE OPG.	
		STANDARD BOTTOM RAIL	HI-PROFILE BOTTOM RAIL
82-1/2"	80"	71-13/16"	68-1/16"
95-3/4"	93-1/4"	85-1/16"	81-5/16"

**'X' DOORS**

DESIGN LOAD CAPACITY - PSF (GLASS AND HARDWARE OPTIONS)																	
FRAME HEIGHT INCHES	FRAME WIDTH INCHES	GLASS TYPES								HINGES				LOCKS			
		'A', 'B' & 'D'		'C' & 'E'		'F'		'G' & 'H'		OPTION '1'		'2' & '3'		OPTION '1'		OPTION '2'	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
95-3/4	37-1/2	70.0	80.0	90.0	90.0	100.0	120.0	70.0	80.0	90.0	90.0	100.0	120.0	70.0	80.0	100.0	120.0
	39-5/8	-	-	90.0	90.0	100.0	120.0	70.0	80.0	90.0	90.0	100.0	120.0	70.0	80.0	100.0	120.0

NOTE:  
LOWEST VALUE SELECTED FROM OPTION WILL APPLY.

**'XX' DOORS**

DESIGN LOAD CAPACITY - PSF (GLASS AND HARDWARE OPTIONS)																	
FRAME HEIGHT INCHES	FRAME WIDTH INCHES	GLASS TYPES								HINGES				LOCKS			
		'A', 'B' & 'D'		'C' & 'E'		'F'		'G' & 'H'		OPTION '1'		'2' & '3'		OPTION '1' & '3'		OPTION '2'	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
95-3/4	71-3/4	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0	90.0	90.0
	76	-	-	90.0	90.0	90.0	90.0	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0	90.0	90.0

**HINGES:**

**OPTION #1:**

THREE PIECE ALUM BUTT HINGE BY 'E.S. WINDOWS'  
(3) HINGES PER LEAF AT 11" FROM TOP & BOTTOM  
AND AT MIDSPAN  
FASTENED TO DOOR FRAME AND LEAF WITH  
#10 X 1" FH SMS  
(6) SCREWS AT FRAME, (5) SCREWS AT LEAF

**OPTION #2:**

FACE MOUNT 2 WING PIVOT HINGE BY 'MASTER ACCESSORIES'  
WITH EXTRUDED ALUMINUM BASE, DIE CAST ALUMINUM  
COVER PLATES, ST. STEEL PIVOTS AND GALV. STEEL  
BRUSHES AND SCREWS  
(2) HINGES PER LEAF AT 12" FROM TOP & BOTTOM  
FASTENED TO DOOR FRAME AND LEAF WITH  
5/16-24 X 1" FH MS (2) PER WING

**OPTION #3:**

SERIES 60AT (DR HAHN A701) DIE CAST ALUMINUM HINGE  
BY 'DR HAHN'  
(2) HINGES PER LEAF AT 8-1/2" FROM TOP & BOTTOM  
FASTENED TO DOOR FRAME AND LEAF WITH  
(2) 5/16-24 X 1" HEX DRIVE FLAT HEAD SCREWS

**LOCKING HARDWARE:**

**ACTIVE LEAF:**

**OPTION #1:**

SURFACE MOUNT DEAD BOLT LOCK BY 'YALE'  
AT 45" FROM BOTTOM, KEY OPERATED ON  
EXTERIOR AND THUMB TURN ON INTERIOR  
FASTENED TO ACTIVE LEAF LOCK STILE WITH  
(2) 1/4-28 X 2-1/2" OH MS  
LEVER TYPE METALLIC HANDLE AT 37" FROM  
BOTTOM, FASTENED TO ACTIVE LEAF LOCK STILE  
WITH (2) #8-32 X 1-3/4" PH MS.

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'  
MANUALLY OPERATED LEVERS MOUNTED ON STILE  
FACE, LOCATED AT 12" FROM TOP AND BOTTOM  
FASTENED TO LOCK STILE WITH  
#8 X 3/4" FH SMS (2) SCREWS PER BOLT

**OPTION #2:**

3 POINT LOCK SYSTEM BY 'INTERLOCK' AT 39"  
FROM BOTTOM  
HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS  
ENGAGING AT HEAD AND SILL  
KEY OPERATED ON EXTERIOR AND THUMB TURN ON  
INTERIOR  
FASTENED TO ACTIVE LEAF LOCK STILE WITH  
(2) #8-32 X 2" OH MS

**OPTION #3:**

4-POINT MORTICE LOCK SYSTEM BY 'INTERLOCK'  
AT 39" FROM BOTTOM  
HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS  
ENGAGING AT HEAD AND SILL  
KEY OPERATED ON EXTERIOR AND THUMB TURN ON  
INTERIOR  
FASTENED TO ACTIVE LEAF LOCK STILE WITH  
(2) #8-32 X 2" OH MS

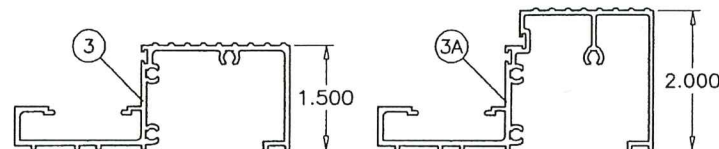
**INACTIVE LEAF (FOR USE WITH OPTIONS 1,2 & 3)**

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'  
MANUALLY OPERATED LEVERS MOUNTED ON  
INSIDE FACE OF LEAF STILE LOCATED AT  
12" FROM TOP AND BOTTOM  
FASTENED TO LOCK STILE WITH  
#8 X 3/4" FH SMS (2) PER BOLT

**WATER INFILTRATION LIMITATIONS:**

WHERE WATER INFILTRATION RESISTANCE IS REQUIRED  
LIMIT EXTERIOR LOADS FOR ALL CASES AS FOLLOWS  
STD. SILL = +70.0 PSF (X & XX DOORS)  
HI-RISE SILL = +90.0 PSF (XX DOORS)  
+100.0 PSF (X DOORS)

EXCEPT GLASS TYPES 'G' & 'H' REQUIRE HI-RISE SILL  
FOR ALL CASES.

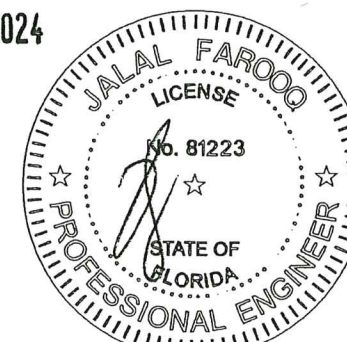


STD. SILL

HI-RISE SILL

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 24-1219-02  
Expiration Date 12/20/28  
By *[Signature]*  
Miami Dade Product Control

DEC 05 2024



SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)  
ESR Impact System LLC.  
12400 S.W. 134th Court, Suite 8  
Miami, FL. 33186  
Phone: (305) 489-1608  
www. -

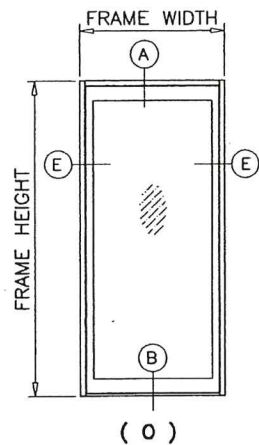
revisions:	no	date	by	description

date: 12-03-24	scale: -	dr. by: TARIQ	chk. by:
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drawing no.  
24-92D  
sheet 2 of 7

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538  
COMP-ANL 24-92D-ESR



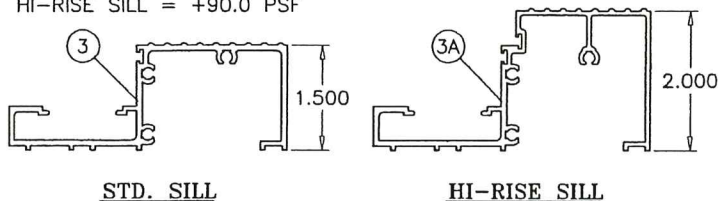


# STATIONARY PANEL (O) OR SIDELITES

FRAME HEIGHT FT./IN.		DESIGN LOAD CAPACITY - PSF							
		GLASS TYPES							
		'A', 'B', 'D'		'C', 'E'		'F'		'G' & 'H'	
6/10-1/2	33	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0
	36	70.0	80.0	87.0	87.0	87.0	87.0	70.0	80.0
	39	70.0	80.0	80.3	80.3	80.3	80.3	70.0	80.0
	42	70.0	74.6	74.6	74.6	74.6	74.6	70.0	74.6
7/0	33	70.0	80.0	90.0	90.0	90.0	90.0	70.0	80.0
	36	70.0	80.0	87.0	87.0	87.0	87.0	70.0	80.0
	39	70.0	80.0	80.3	80.3	80.3	80.0	70.0	80.0
8/0	33	70.0	80.0	87.6	87.6	90.0	90.0	70.0	80.0
	36	70.0	80.0	87.0	87.0	87.0	87.0	70.0	80.0

## WATER INFILTRATION LIMITATIONS:

WHERE WATER INFILTRATION RESISTANCE IS REQUIRED  
LIMIT EXTERIOR LOADS FOR ALL CASES AS FOLLOWS  
STD. SILL = +70.0 PSF  
HI-RISE SILL = +90.0 PSF

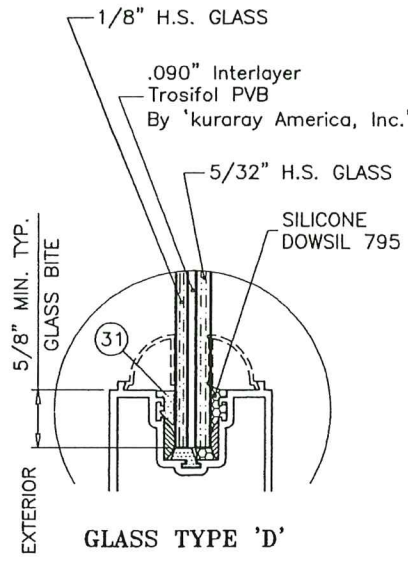
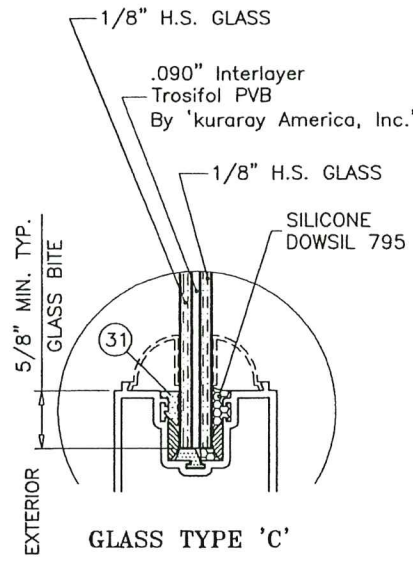
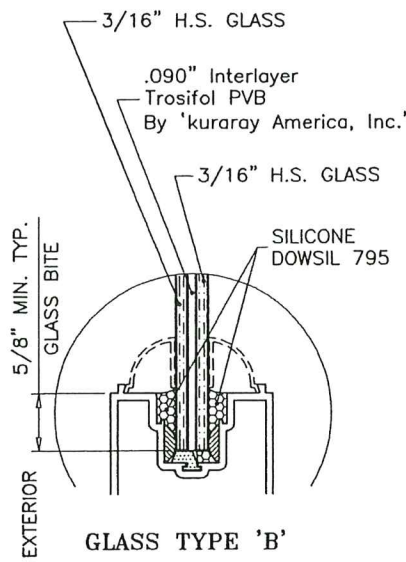
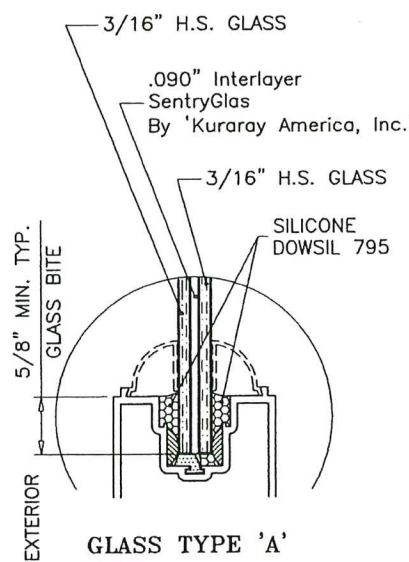


## D.L. OPENINGS:

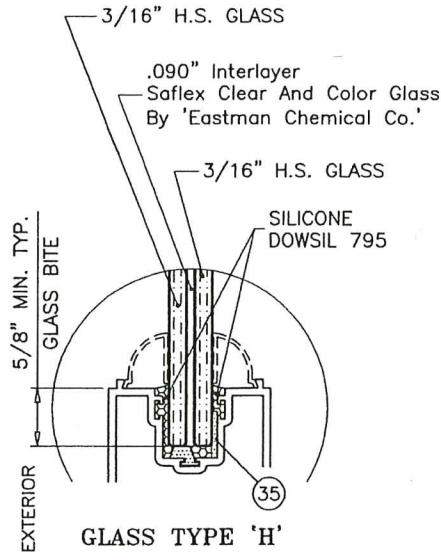
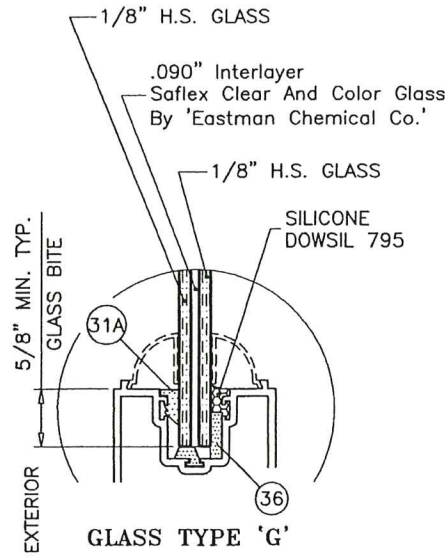
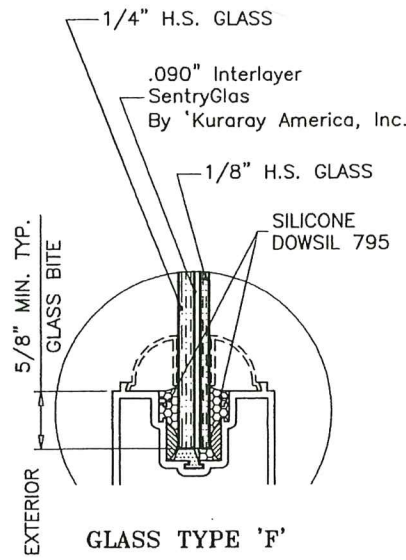
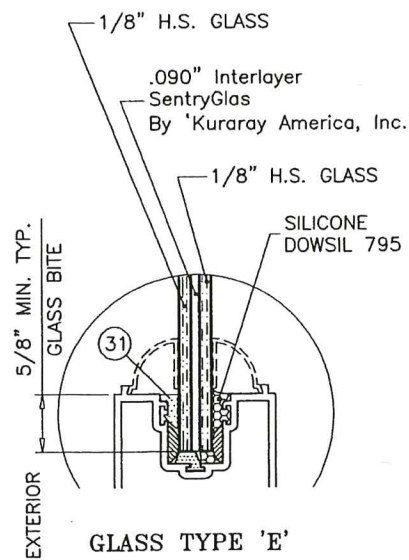
D.L.O. HEIGHT = LEAF HEIGHT - 8.1875" (STD. BOT. RAIL)  
D.L.O. HEIGHT = LEAF HEIGHT - 11.9375" (HI RISE BOT. RAIL)  
D.L.O. WIDTH = PANEL WIDTH - 4.000"

## NOTE:

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



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By Ishay L. L. L.  
Miami Dade Product Control



## GLAZING OPTIONS

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)

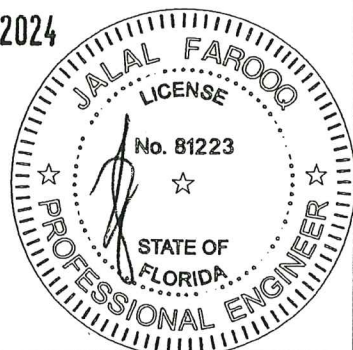
**ESR Impact System LLC.**  
12400 S.W. 134th Court, Suite 8  
Miami, FL 33186  
Phone: (305) 489-1608  
www. -

revisions:	no	date	by	description

date: 12-03-24  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**24-92D**  
sheet 2.1 of 7

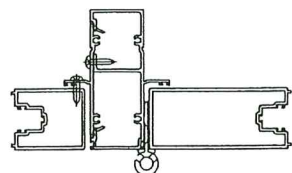
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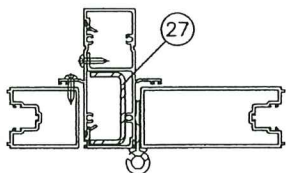


MULLION

DESIGN LOAD CAPACITY - PSF				
SIDELITE WIDTH INCHES	FRAME HEIGHT FT./IN.	DOOR TO SIDELITE MULLION		SIDELITE TO SIDELITE MULL
		UNREINFORCED EXT.(+)/INT.(-)	REINFORCED EXT.(+)/INT.(-)	REINFORCED EXT.(+)/INT.(-)
24	6/10-1/2	80.0	80.0	90.0
27		80.0	80.0	90.0
30		80.0	80.0	90.0
33		80.0	80.0	90.0
36		80.0	80.0	90.0
39		80.0	80.0	90.0
42		79.2	80.0	90.0
24	7/0	80.0	80.0	90.0
27		80.0	80.0	90.0
30		80.0	80.0	90.0
33		80.0	80.0	90.0
36		80.0	80.0	90.0
39		77.9	80.0	90.0
18	8/0	71.2	80.0	90.0
21		67.7	80.0	90.0
24		64.5	80.0	90.0
27		61.6	77.7	90.0
30		58.9	74.4	83.3
33		56.5	71.3	76.4
36		54.2	68.5	70.7

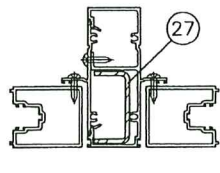


UNREINFORCED



REINFORCED

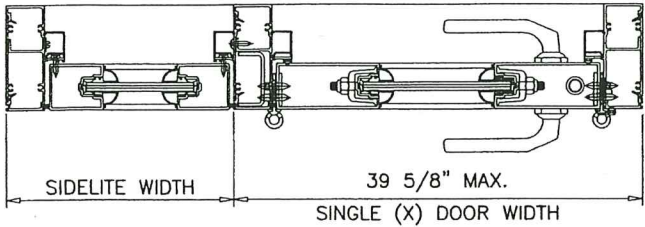
DOOR TO SIDELITE MULLION



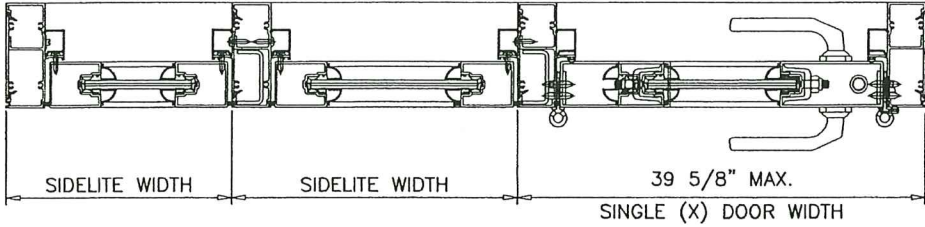
REINFORCED

SIDELITE TO SIDELITE MULLION

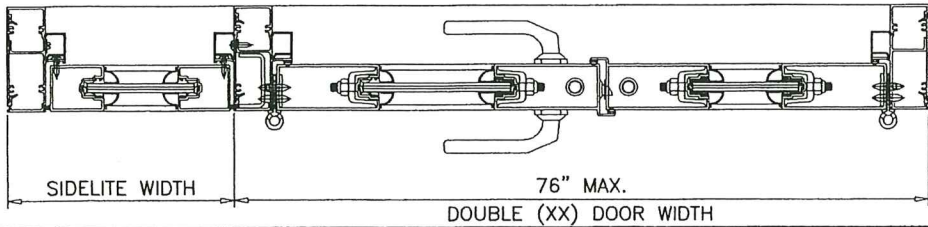
NOTE:  
FOR DOORS CAPACITY SEE SHEET 2  
FOR SIDELITE CAPACITIES SEE SHEET 2.1.  
FOR SIDELITE MULLION CAPACITY SEE CHART ABOVE  
LOWER VALUES FROM DOORS, SIDELITE OR DOOR/SIDELITE MULLION  
CHART WILL APPLY TO ENTIRE SYSTEM.



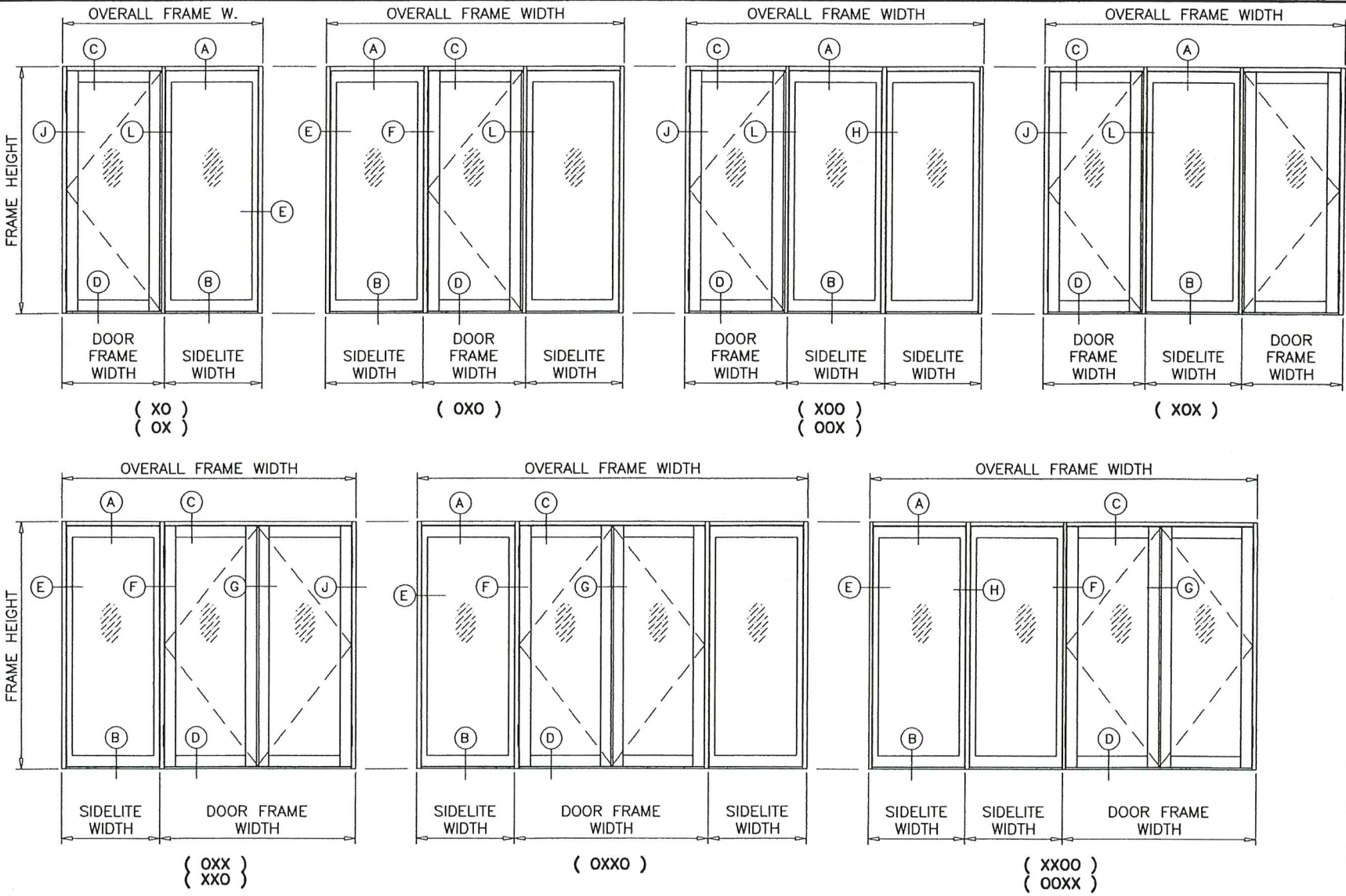
SINGLE (X) DOOR WIDTH



SINGLE (X) DOOR WIDTH

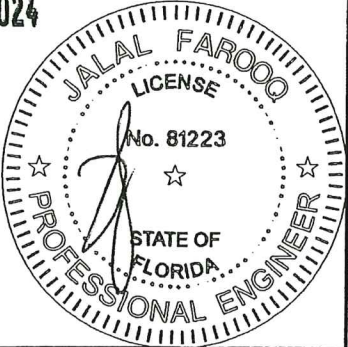


DOUBLE (XX) DOOR WIDTH



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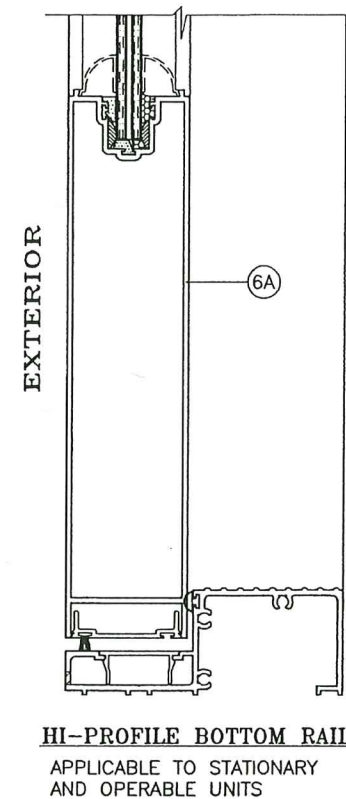
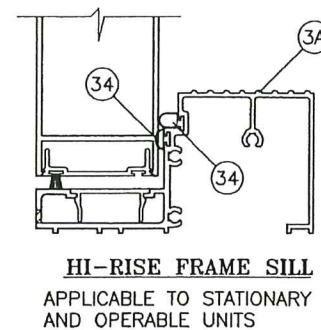
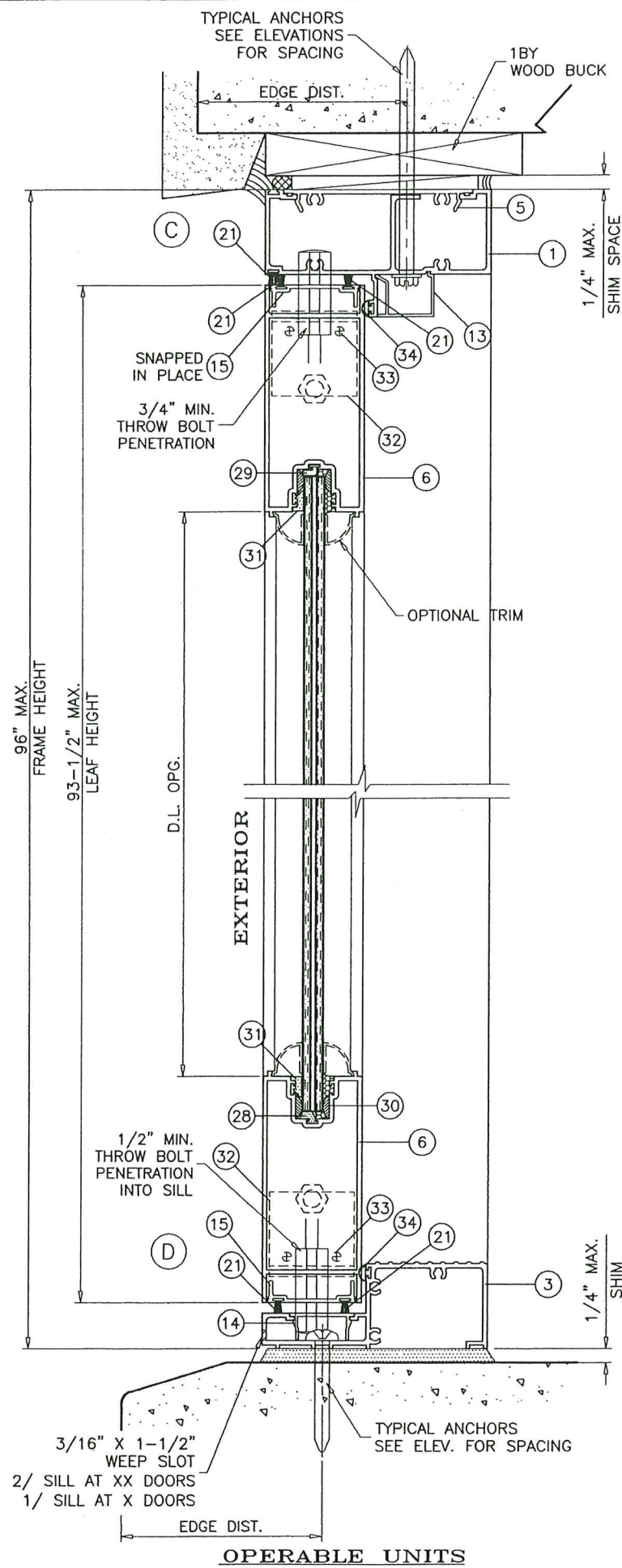
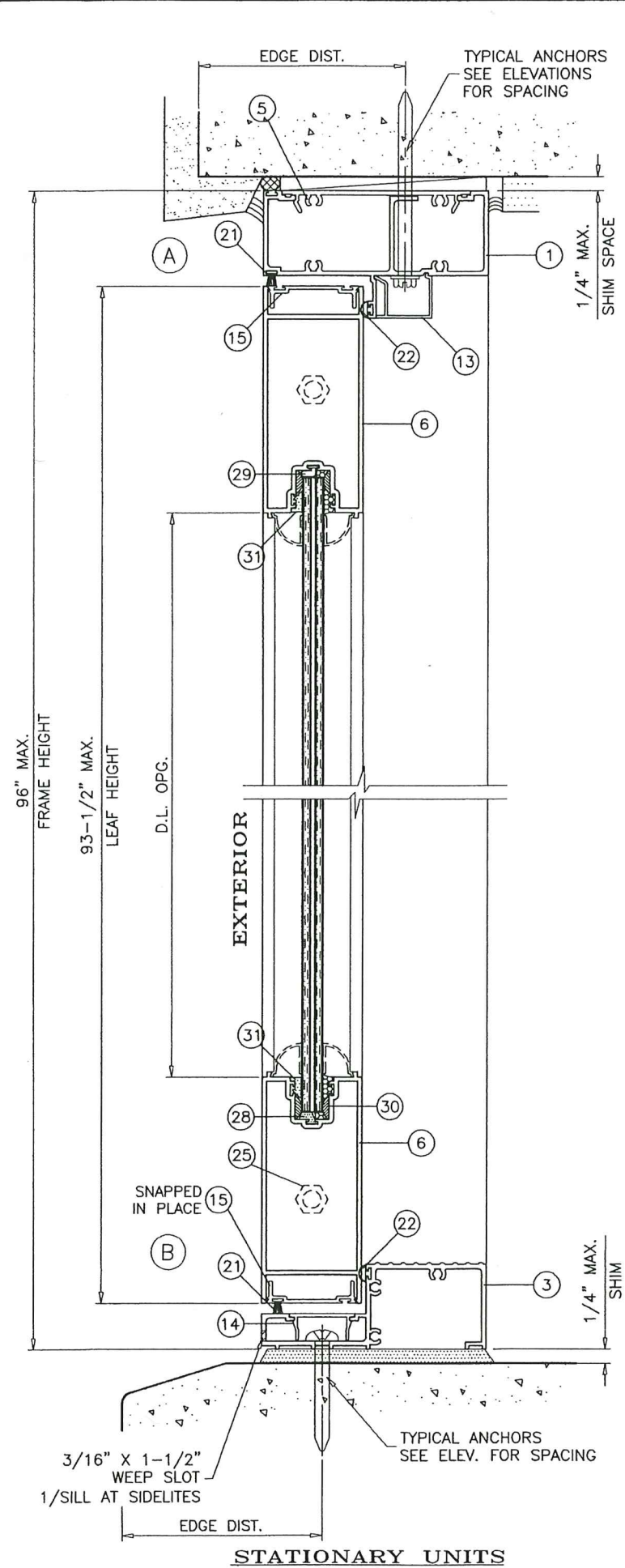


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COMP-ANL 24-92D-ESR

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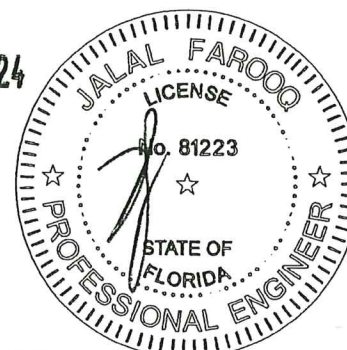
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dr. by:	TARIQ	chk. by:		
drawing no.	24-92D	sheet	2.2 of 7	





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Miami Dade Product Control

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WWW.-

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dr. by: TARIQ  
chk. by:

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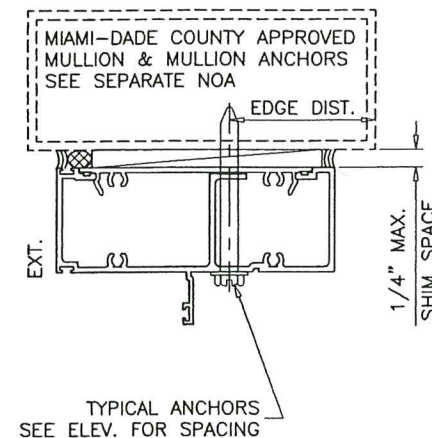
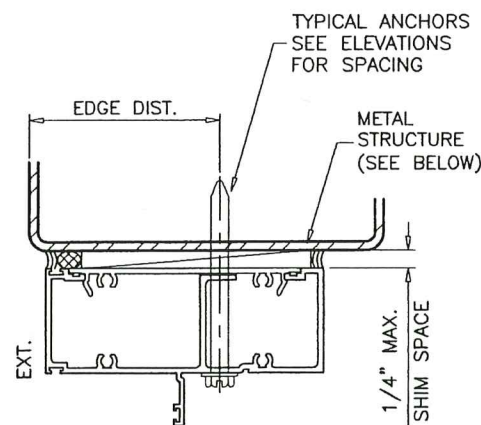
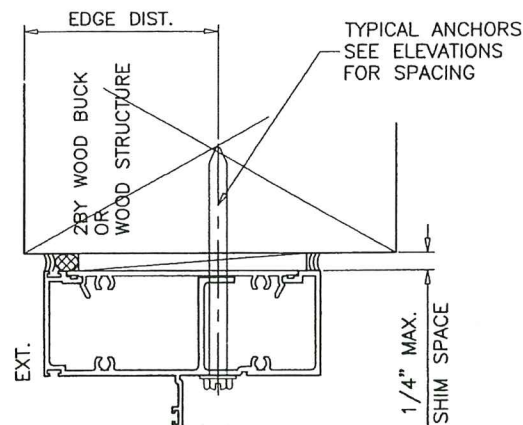
revisions:

no	date	by	description

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drawing no. **24-92D**  
sheet 3 of 7





WOOD BUCKS AND METAL STRUCTURE NOT BY 'ESR IMPACT SYS.'  
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/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)  
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

**#14 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES (HEAD/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.

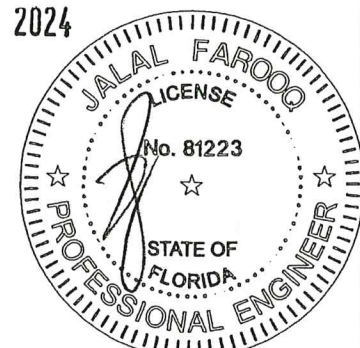
WOOD AT HEAD OR JAMBS SG = 0.55 MIN.  
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**SEALANTS:**

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH  
WHITE/ALUMINUM COLORED SILICONE.

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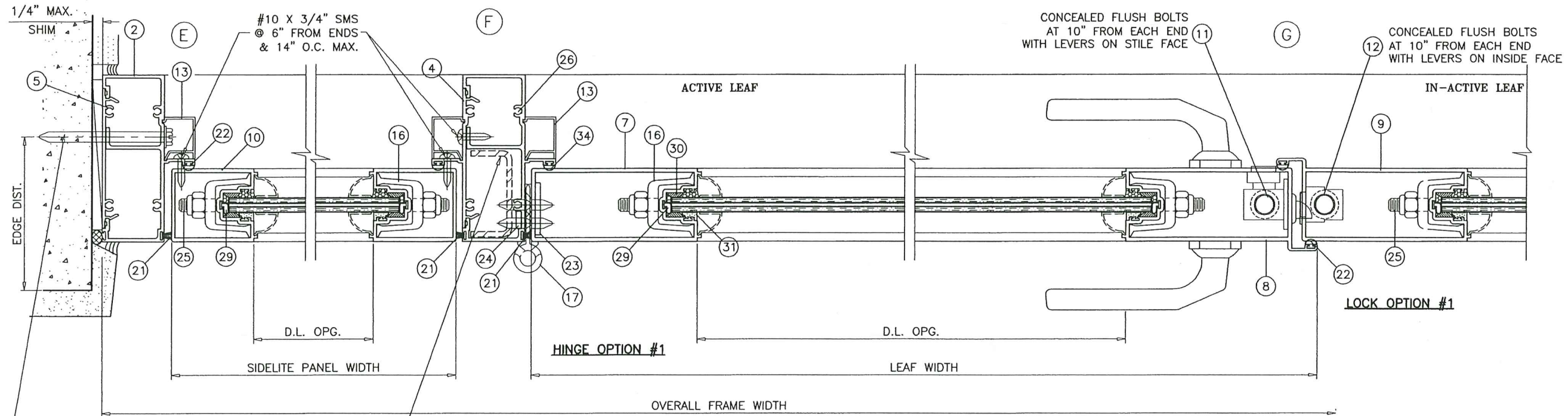
**AL-FAROOQ CORPORATION**  
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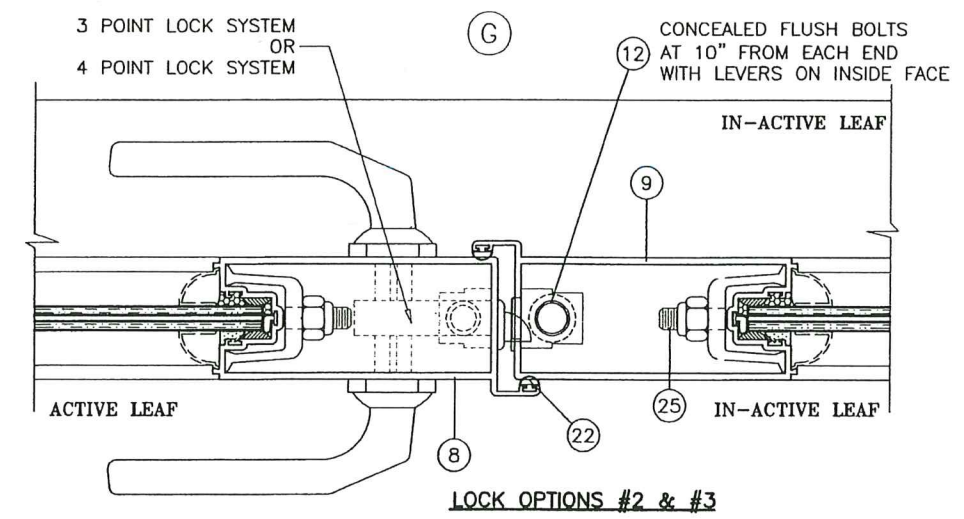
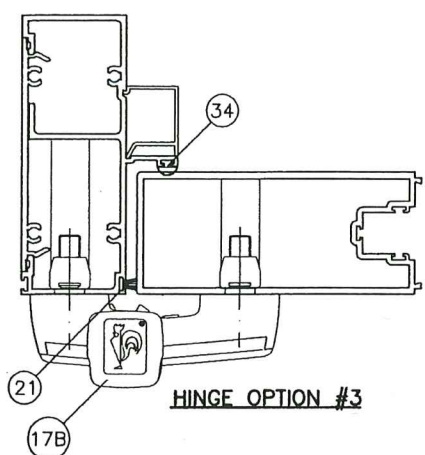
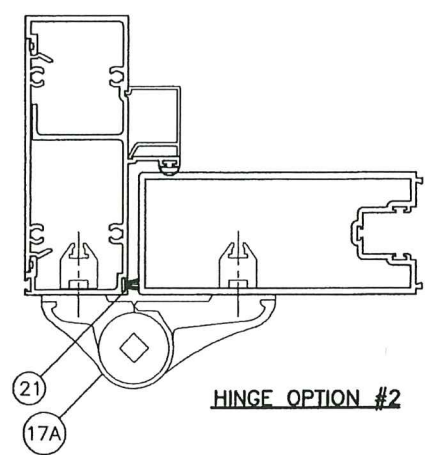
drawing no.  
24-92D  
sheet 4 of 7



TYPICAL ANCHORS  
SEE ELEV.  
FOR SPACING

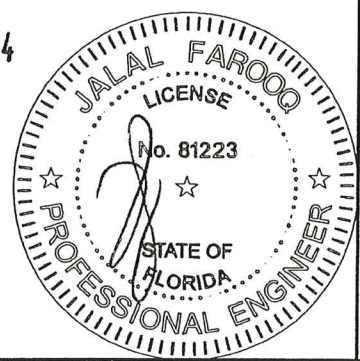
OPTIONAL REINFORCING  
SEE SHEET 2.2 FOR CAPACITY  
.96\" X 2\" X .96\" X 1/8\"  
FULL LENGTH STL. CHANNEL  
(CARBON STEEL TO BE PAINTED OR PLATED)

EXTERIOR  
( OXXO )



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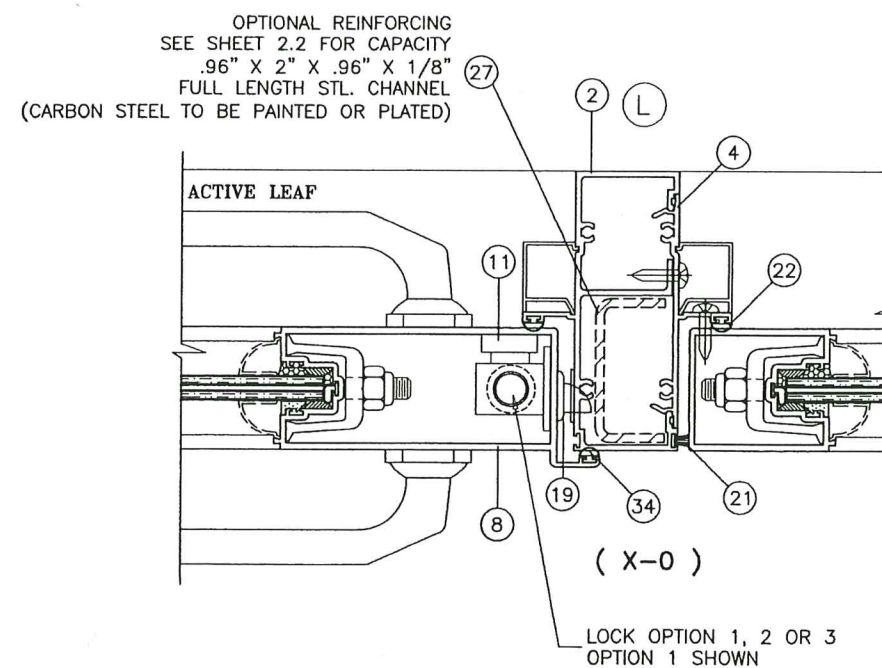
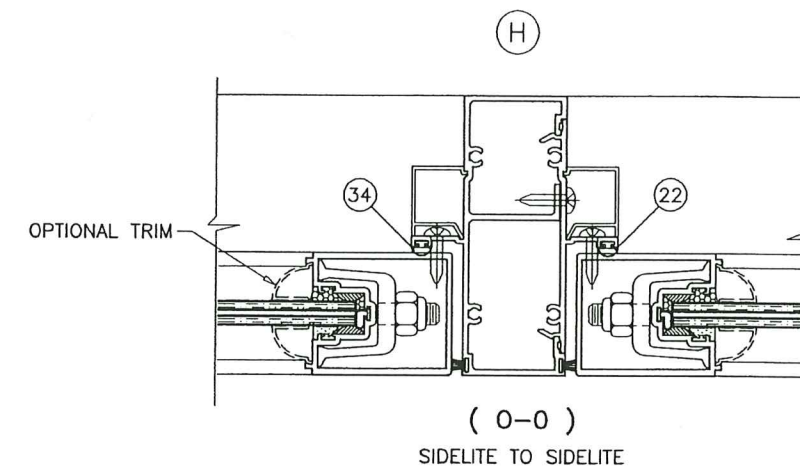
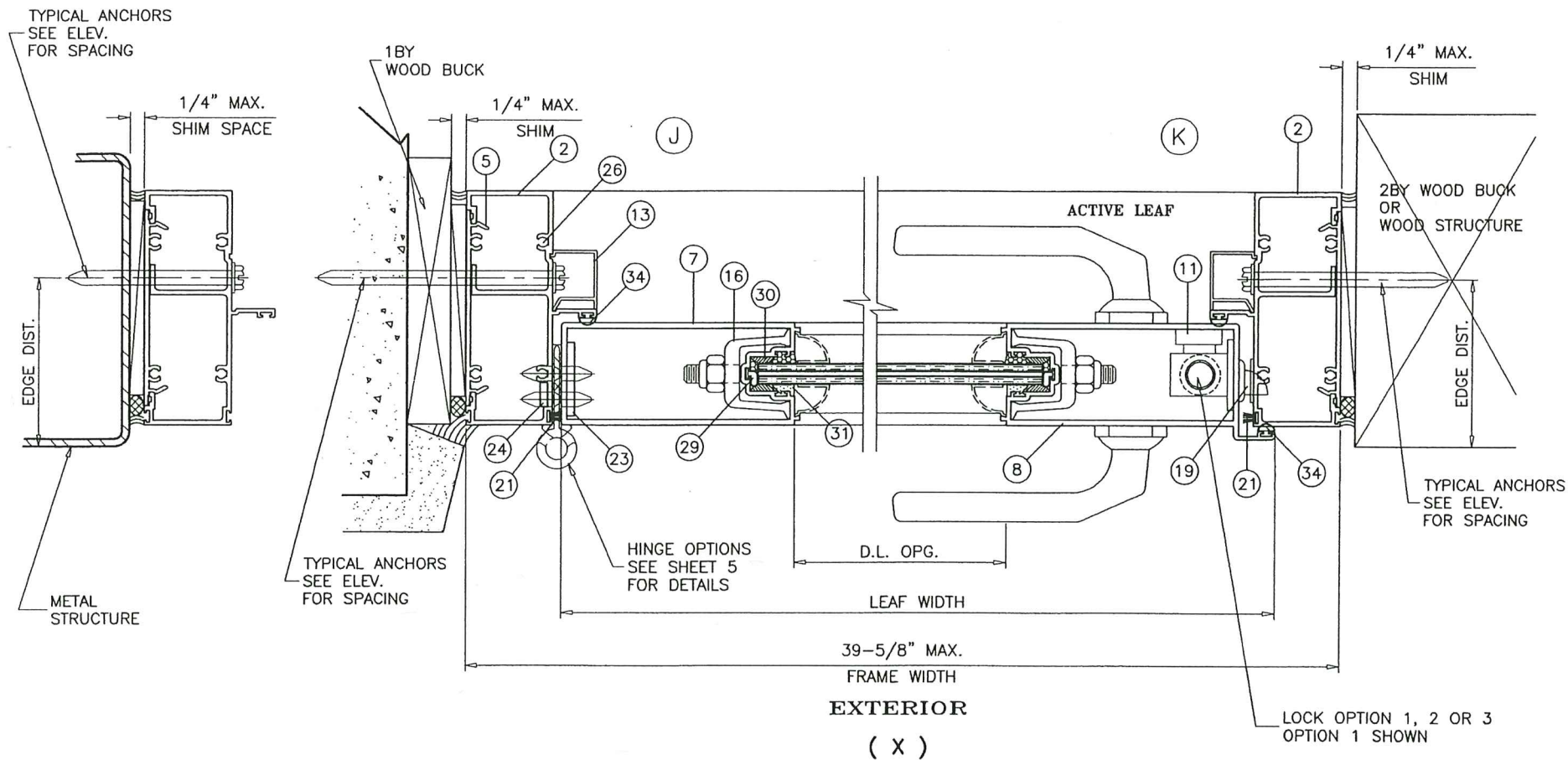
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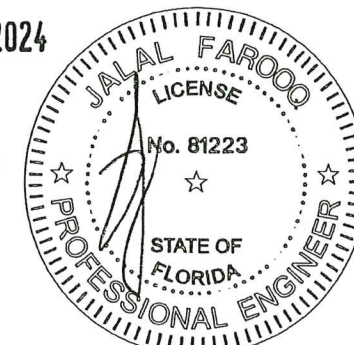
sheet 5 of 7





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sheet 5.1 of 7				

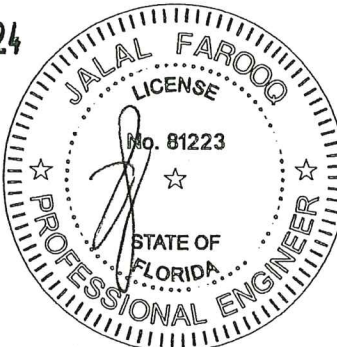
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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES3001-1	1	FRAME HEAD	6063-T6	-
2	ES3001-2	2	DOOR FRAME JAMB	6063-T6	-
3	ES3002-1	1	FRAME SILL (STANDARD)	6063-T5	-
3A	ES3025	1	FRAME SILL (HI-RISE)	6063-T5	-
4	ES3003-1	AS REQD.	SIDELITE ADAPTER	6063-T6	-
5	ES3004	AS REQD.	SHEAR PLATE @ ANCHOR LOCATIONS	6063-T6	3" LONG
6	ES3005-1	2/ LEAF	TOP AND BOTTOM RAIL	6063-T5	-
6A	ES3024	2/ LEAF	HI-PROFILE BOTTOM RAIL	6063-T5	-
7	ES3006-1	1/ LEAF	DOOR LEAF JAMB - HINGE SIDE	6063-T5	-
8	ES3007-1	1/ LEAF	DOOR LEAF - LOCK SIDE	6063-T6	-
9	ES3007-2	1/ LEAF	DOOR LEAF - KEEPER SIDE	6063-T6	-
10	ES3008-1	AS REQD.	SIDELITE STILE	6063-T5	-
11	FB-1202-914	2/ LEAF	CONCEALED FLUSH BOLT	STEEL	SULLIVAN & ASSOCIATES
12	FB-1202-914	2/ LEAF	CONCEALED FLUSH BOLT	STEEL	SULLIVAN & ASSOCIATES
13	ES3011	AS REQD.	JAMB TRIM	6063-T5	OPTIONAL
14	ES3012	1	SILL COVER	6063-T6	-
15	ES3013	2/ LEAF	WEATHERSTRIP ADAPTER	6063-T5	-
16	ES3014-1	4/ PANEL	PANEL CLAMP	6063-T6	-
17	ES3003-3	3/ LEAF	HINGE ASSEMBLY	6063-T6	SEE SHEET 2
17A	-	2/ LEAF	PIVOT HINGES	-	SEE SHEET 2, MASTER
17B	M701	2/ LEAF	DR HAHN 2 PIECE HINGE, AT 6" FROM EACH END	DIE CAST ALUM	SEE SHEET 2
19	-	-	DOOR LOCK (SAVANNAH 201SL)	-	YALE
20	-	-	DEAD BOLT LOCK (PREMIER)	-	YALE
21	W22321NG	AS REQD.	FIN-SEAL PILE W'STRIPPING	-	ULTRAFAB
22	ES3020	AS REQD.	BULB WEATHERSTRIPPING	VINYL	AT SIDELITE PANELS
23	-	1/ HINGE	HINGE REINFORCING BAR	ALUMINUM	1-1/4"X1/8"X4-1/4" LONG
24	-	AS REQD.	HINGE REINFORCING BAR	ALUMINUM	1/8" THK. X 7-7/8" LONG
25	-	2/ LEAF	3/8" DIA. THREADED ROD W/ NUTS	STEEL	-
26	-	AS REQD.	FRAME ASSY. SCREWS	-	#10 PAN HEAD SMS
27	-	AS REQD.	MULLION REINF. CHANNEL (LENGTH = MULL HT. - 10")	A36 STEEL	-
28	ES4014	AS REQD.	BOTTOM RAIL GLASS STOP	NEOPRENE	-
29	ES4019	AS REQD.	PANEL SILICONE STOP	NEOPRENE	-
30	-	AS REQD.	3/8" DIA. X 1/8" HT. BUMPER	SILICONE	FRANK LOWE RUBBER CO.
31	ES4013	AS REQD.	WEDGE GASKET	SILICONE/EPDM	TREMCO
31A	ES-3000-G01	AS REQD.	WEDGE GASKET	SILICONE/EPDM	TREMCO
32	ES3022	2/ STILE	FLUSH BOLT BRACKET	6063-T5	-
33	-	2/ BKT.	BRACKET INSTALLATION SCREWS	-	#10 X 1" FH SMS
34	Q/LON	AS REQD.	DOOR PANEL W'STRIPPING	-	SCHLEGEL
35	-	AS REQD.	1/16" X 1/2" GLAZING TAPE	URETHANE	SAINT GOBAIN
36	-	AS REQD.	1/8" X 1/2" GLAZING TAPE	URETHANE	SAINT GOBAIN

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**a f c**

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