



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  
T (786) 315-2590 F (786) 315-2599

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

ES Windows, LLC  
3550 NW 49<sup>th</sup> Street  
Miami, FL 33142

### SCOPE:

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

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

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

### DESCRIPTION: Series "EL400" Aluminum Sliding Glass Door - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W16-73 Rev C**, titled "ES-EL400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, dated 11/28/16 and last revised on July 22, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

#### Limitations:

1. See Elevations in sheets **1, 2, 3, 4** and anchors requirements. See Header anchor capacity charts in sheet **6** and Glass capacity VS size in sheet **5**. Overall Lower Design Pressure (DP) controls for entire the assembly.
2. See sheets **7 thru 13** for various configurations, tracks, pockets, non-pockets and allowable frame area.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Baranquilla, Columbia, S.A.**, series, and the 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 **renews** NOA # **21-0728.02** 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.**



*Ishaq I. Chanda*

NOA No. 22-0118.06  
Expiration Date: July 20, 2027  
Approval Date: February 24, 2022  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

1. Evidence submitted under previous approval.

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W16-73**, titled "ES-EL400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, dated 11/28/16, with revision A dated 07/12/17, prepared by Al-Farooq Corporation, 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  
4) Forced Entry Test, per FBC, and TAS 202-94  
5) Large 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 sliding glass door, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-009**, dated 06/15/17, signed and sealed by Constantin Bortes, P.E. with Letter of Clarification issued on 07/13/17, signed and sealed by Constantin Bortes, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-5<sup>th</sup> Edition (2014) and FBC-6<sup>th</sup> Edition (2017)**, dated 06/20/17 and revised on 07/13/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
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. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**", expiring on 07/08/19.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**Sentry Glass® (Clear and White) Glass Interlayer**", expiring on 07/04/18.
3. Notice of Acceptance No. **15-1201.11** issued to **Eastman Chemical Co. (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 03/17/16, expiring on 05/21/21.
4. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Co. (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 06/19/14, expiring on 11/11/18.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-5<sup>th</sup> Edition (2014) and FBC-6<sup>th</sup> Edition (2017)** dated 07/12/17, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

*Ishaq I. Chanda*

**Ishaq I. Chanda, P.E.**

**Product Control Unit Supervisor**

**NOA No. 22-0118.06**

**Expiration Date: July 20, 2027**

**Approval Date: February 24, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS (continue)**

2. Statement letter of no financial interest, dated 07/12/17, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
3. Distributor Agreement, signed by Carlos Garcia and by Evelyn Daes.
4. Laboratory compliance statement for Test Report No. **BT-ESW-17-009**, issued by Blackwater Testing, Inc., dated 06/15/17, signed and sealed by Dennis Duffy, CEO.
5. Proposal No. **16-1478** issued by the Product Control Section, dated 11/17/16, signed by Ishaq I. Chanda, P.E.

**2. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **W16-73 Rev B**, titled “ES-EL400 Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, dated 11/28/16 and last revised on Dec 30, 2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-7<sup>th</sup> Edition (2020)**, dated 11/18/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09 &-16**.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **19-0305.02** 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. **17-0808.02** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 07/04/23.
3. Notice of Acceptance No. **15-1201.11** issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/21.
4. Notice of Acceptance No. **18-0301.06** issued to **Eastman Chemical Co. (MA)** for their “**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**”, expiring on 11/11/23.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-7<sup>th</sup> Edition (2020)** and No financial interest, dated 11/18/20, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Test Lab Compliance statement, as part of test report.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-0118.06**  
**Expiration Date: July 20, 2027**  
**Approval Date: February 24, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**G. OTHER**

1. This NOA **revises NOA No. 16-0617.02** and updates to FBC 2020 (7<sup>th</sup> Edition) expiring 07/20/22.
2. 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) respectively (original copy in various ES approved NOA(s) files.

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-0118.06**  
**Expiration Date: July 20, 2027**  
**Approval Date: February 24, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under previous submittal**

**A. DRAWINGS**

1. Drawing No. **W16-73 Rev C**, titled “ES-EL400 Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, dated 11/28/16 and last revised on July 22, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS (Supplement test for sill riser part #ES-2020-041)**

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) Forced Entry Test, per FBC, and TAS 202-94  
6) Large Missile Impact Test per FBC, TAS 201-94  
7) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of aluminum sliding glass doors, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-19007**, dated 12/09/19, signed and sealed by Constantin Bortes, P.E.

**C. CALCULATIONS**

1. Comparative structural section properties sill riser analysis, dated 07/07/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09 &-16**.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-7<sup>th</sup> Edition (2020)** and No financial interest, dated 07/07/21, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Test Lab Compliance statement, as part of test report.

**G. OTHER**

1. This NOA **revises NOA No. 20-1118.06** and updates to FBC 2020 (7<sup>th</sup> Edition) expiring 07/20/22.
2. 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) respectively (original copy in various ES approved NOA(s) files.
3. Comparative Sectional properties analysis of sill Risers.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-0118.06**  
**Expiration Date: July 20, 2027**  
**Approval Date: February 24, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **W16-73 Rev C**, titled “ES-EL400 Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, dated 11/28/16 and last revised on July 22, 2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

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. **21-0216.01** issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-7<sup>th</sup> Edition (2020)** and No financial interest, dated 01/12/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHER**

1. This NOA **renews NOA No. 21-0728.02**, expiring 07/20/27.
2. 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) respectively (original copy in various ES approved NOA(s) files).
3. Comparative Sectional properties analysis of sill Risers (under previous approval)

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-0118.06**  
**Expiration Date: July 20, 2027**  
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**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0118.06

Expiration Date 07/20/2027

By Ishaq I. Chande  
Miami-Dade Product Control

**PRODUCT REVISED**  
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NOA-No. 21-0728.02

Expiration Date 07/20/2022

By Ishaq I. Chande  
Miami-Dade Product Control

DAYLITE OPENING WIDTH:  
PANEL WIDTH - 5.688"

DAYLITE OPENING HEIGHT:  
PANEL HEIGHT - 5.813"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.250"

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

### SERIES ES-EL400 ALUMINUM SLIDING GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

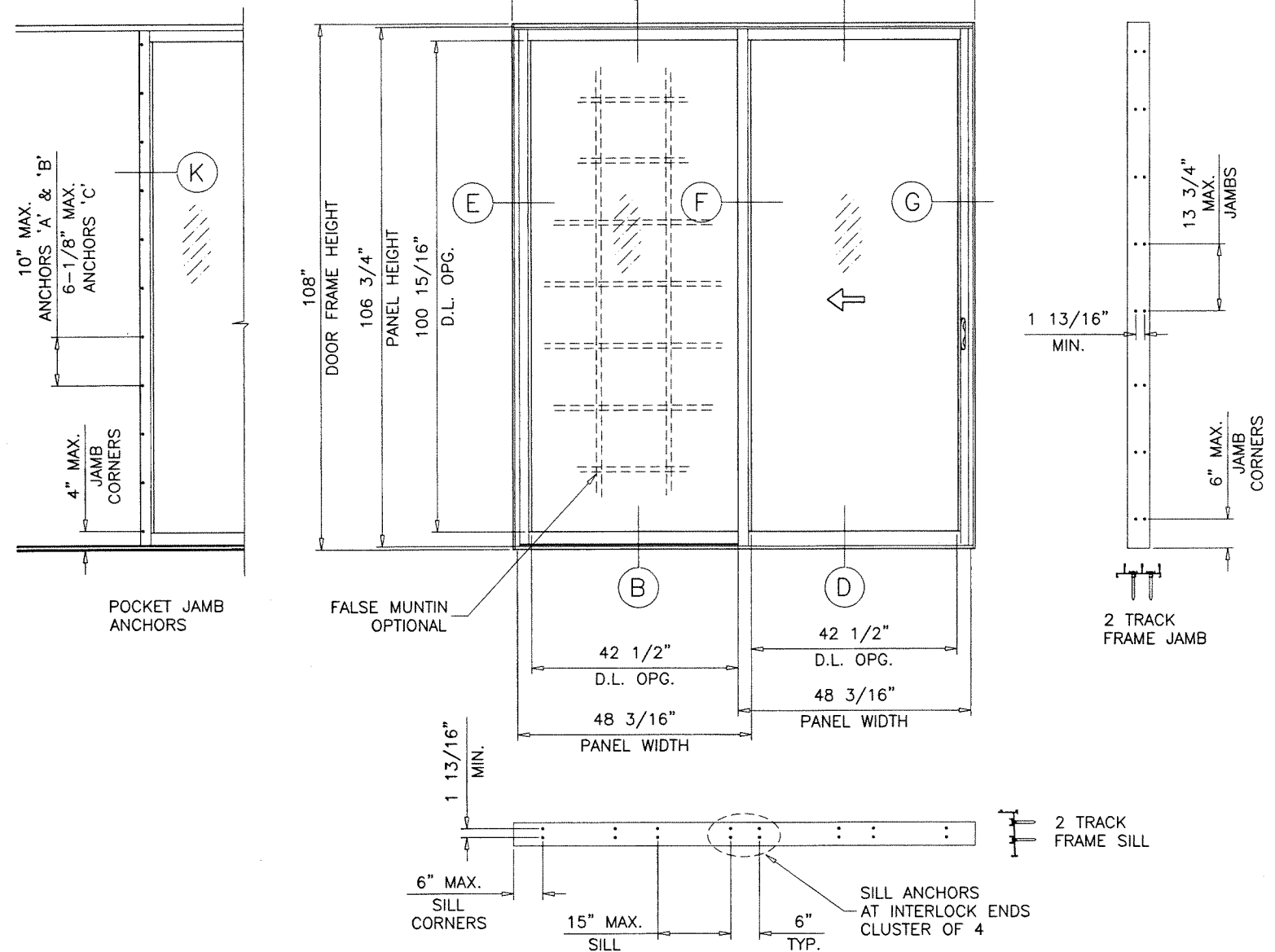
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

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



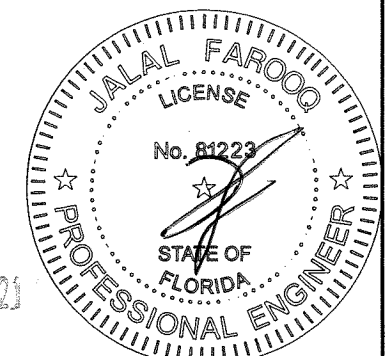
### TYPICAL ELEVATION

OX

### INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLE ON SHEET 5 FOR THE REINFORCING OPTION USED.
- STEP 3** USING CHARTS ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.



AUG 16 2021

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

no	date	by	description
A	07.12.17	REV. PER	REV. COMMENTS
B	11.09.20	UPDATED TO	2020 FBC
C	06.23.21	SILL RISER	REVISED
D	06.04.21	SILL RISER	OPTIONS ADDED

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dr. by:	TARIQ
chk. by:	

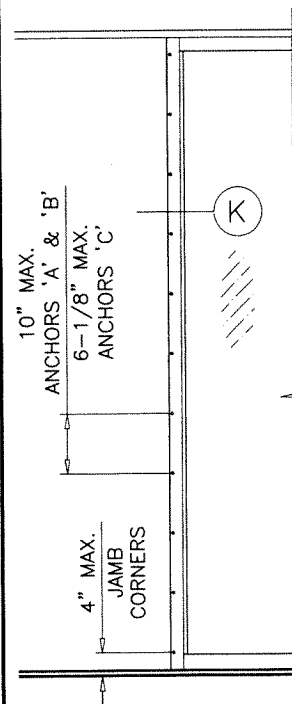
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**W16-73**

sheet 1 of 23

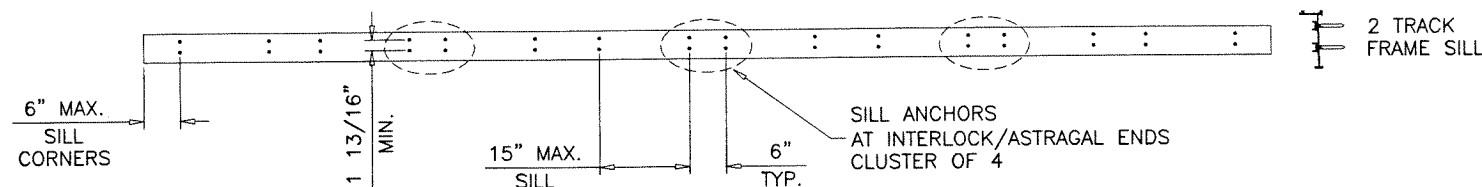
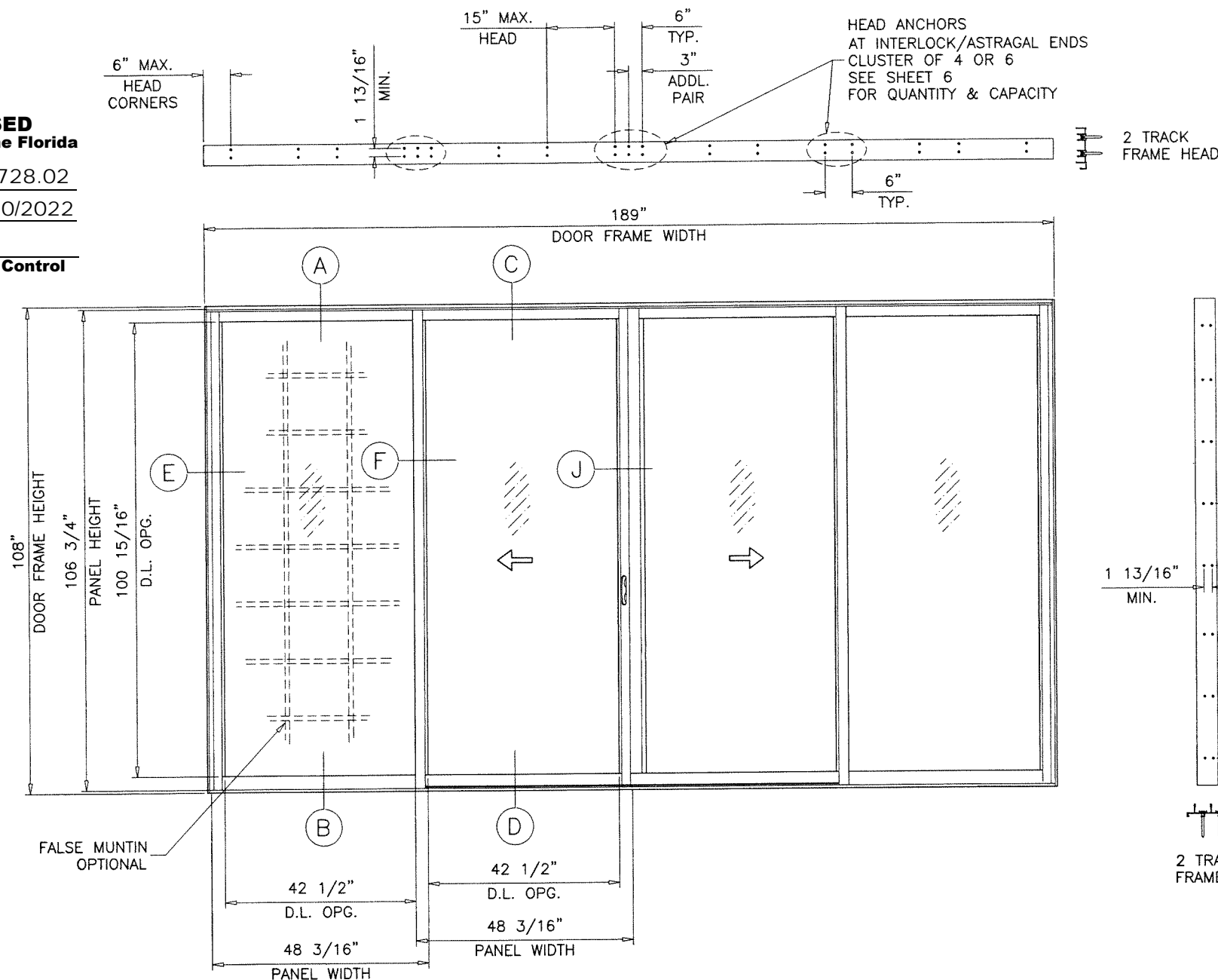
**PRODUCT REVISED**  
as complying with the Florida  
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NOA-No. 21-0728.02

Expiration Date 07/20/2022

By Ishaq I. Chande  
Miami-Dade Product Control



POCKET JAMB  
ANCHORS



**TYPICAL ELEVATION**  
OX-XO

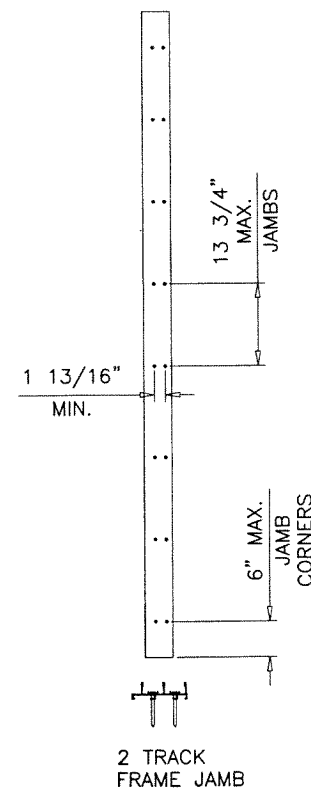
HEAD ANCHORS  
AT INTERLOCK/ASTRAGAL ENDS  
CLUSTER OF 4 OR 6  
SEE SHEET 6  
FOR QUANTITY & CAPACITY

2 TRACK  
FRAME HEAD

**PRODUCT RENEWED**  
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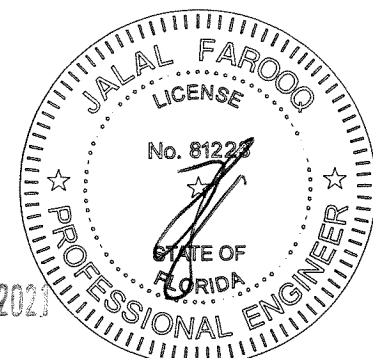
Expiration Date 07/20/2027

By Ishaq I. Chande  
Miami-Dade Product Control



2 TRACK  
FRAME JAMB

AUG 16 2021



**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 W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

revisions:		by		description	
no	date	no	date	no	date
A	07.12.17			REV. PER RER COMMENTS	
B	11.09.20			UPDATED TO 2020 FBC	
C	06.23.21			NO CHANGE THIS SHEET	
D	08.04.21			NO CHANGE THIS SHEET	

date: 11-28-16  
scale: 3/8"=1'-0"  
dr. by: TARIQ  
chk. by:

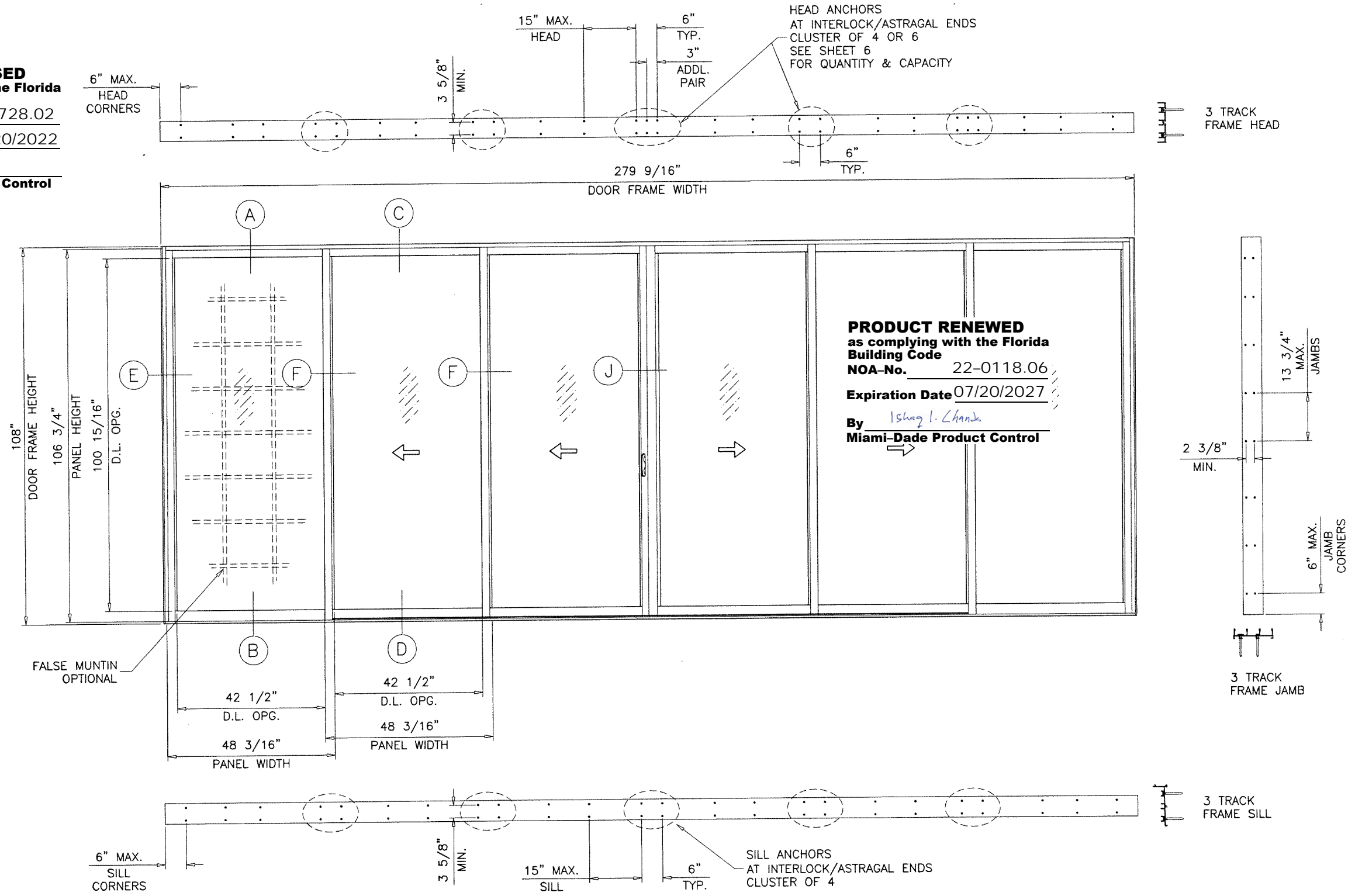
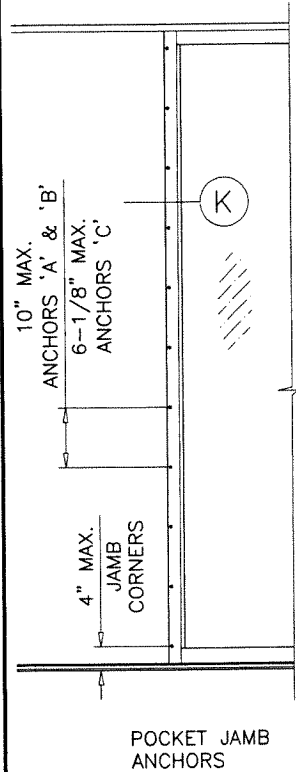
drawing no.

W16-73

sheet 2 of 23



**PRODUCT REVISED**  
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Expiration Date 07/20/2022  
By *Ishag I. Chande*  
Miami-Dade Product Control



TYPICAL ELEVATION  
OXX-XXO



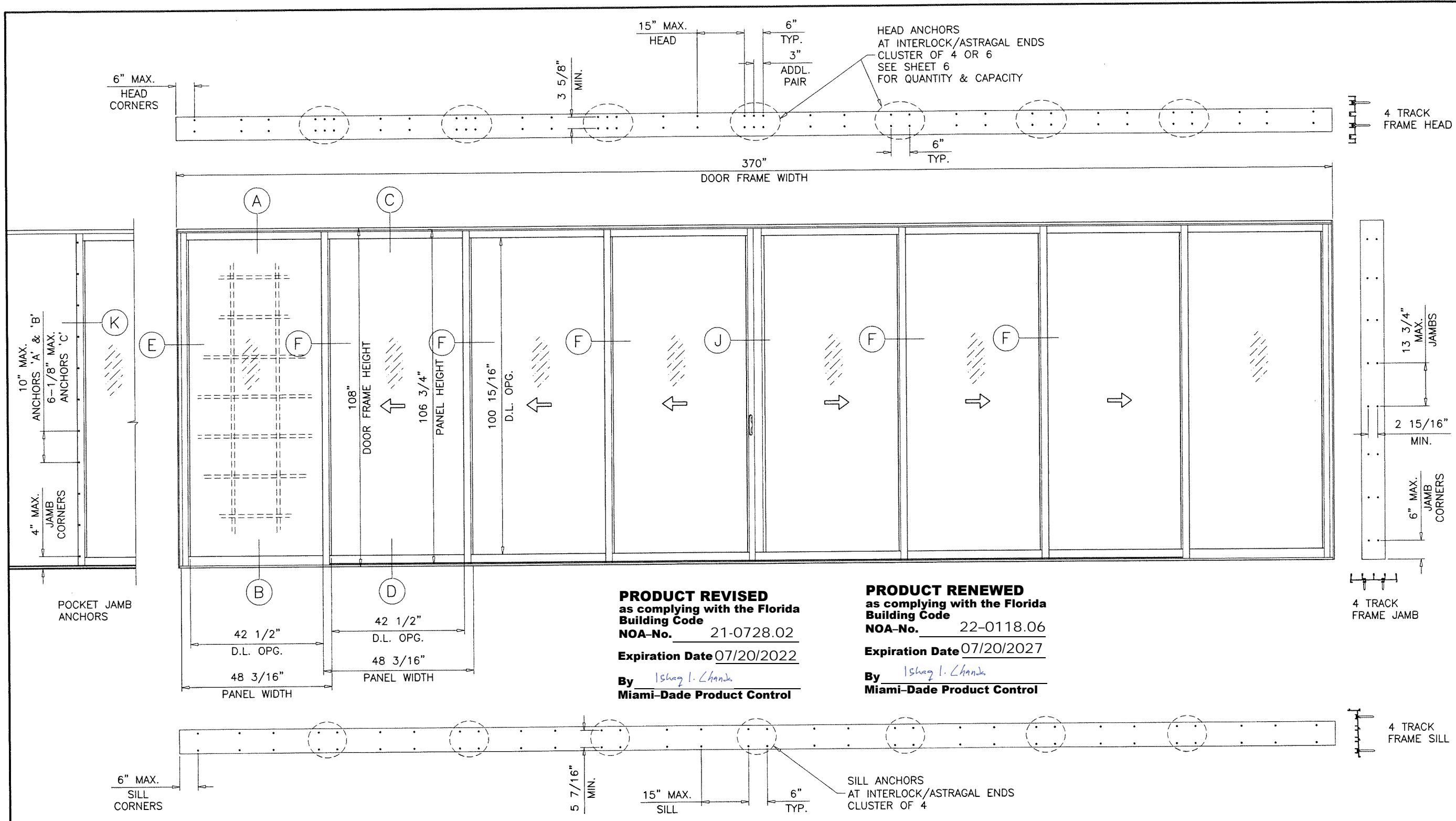
AUG 16 2021

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)  
**E.S. WINDOWS, LLC**  
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MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
	A	07.12.17		REV. PER PER COMMENTS
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	C	06.23.21		NO CHANGE THIS SHEET
	D	08.04.21		NO CHANGE THIS SHEET

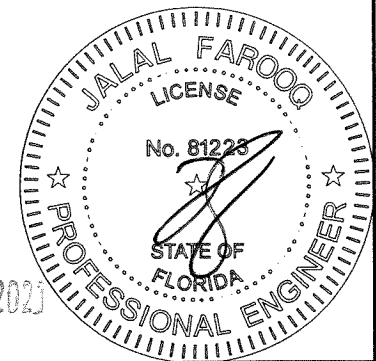
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dr. by: TARIQ  
chk. by:  
drawing no.  
**W16-73**  
sheet 3 of 23



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0728.02  
Expiration Date 07/20/2022  
By Ishag I. Chande  
Miami-Dade Product Control

**PRODUCT RENEWED**  
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**TYPICAL ELEVATION**  
OXXX-XXXO



AUG 16 2023

**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

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
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scale: 3/8"=1'-0"

dr. by: TARIQ

chk. by:

drawing no. **W16-73**

sheet 4 of 23

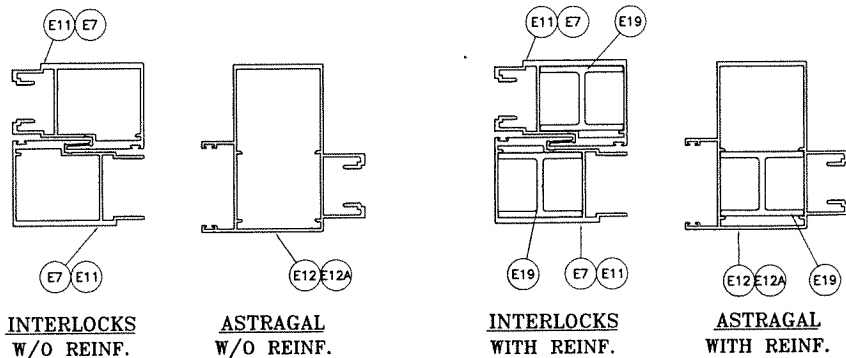
COMP-ANL\W16-73ES

DESIGN LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	INTERLOCK & ASTRAGAL STILES WITHOUT REINF.		INTERLOCK & ASTRAGAL STILES WITH REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48		59.1	59.1	78.8	78.8
54		52.5	52.5	70.0	70.0
60		-	-	47.3	47.3
30	84	60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48		59.1	59.1	78.8	78.8
54		52.5	52.5	70.0	70.0
60		-	-	47.3	47.3
30	90	60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48		59.1	59.1	78.8	78.8
54		-	-	52.5	52.5
30	96	60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48		-	-	59.1	59.1
54		-	-	-	-
30	102	-	-	60.0	60.0
36		-	-	60.0	60.0
42		-	-	60.0	60.0
47-1/4		-	-	60.0	60.0
48		-	-	59.1	59.1
54		-	-	-	-
30	108	-	-	60.0	60.0
36		-	-	60.0	60.0
42		-	-	60.0	60.0
47-1/4		-	-	60.0	60.0
48		-	-	-	-
54		-	-	-	-

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0118.06  
Expiration Date 07/20/2027  
By Ishag I. Chande  
Miami-Dade Product Control

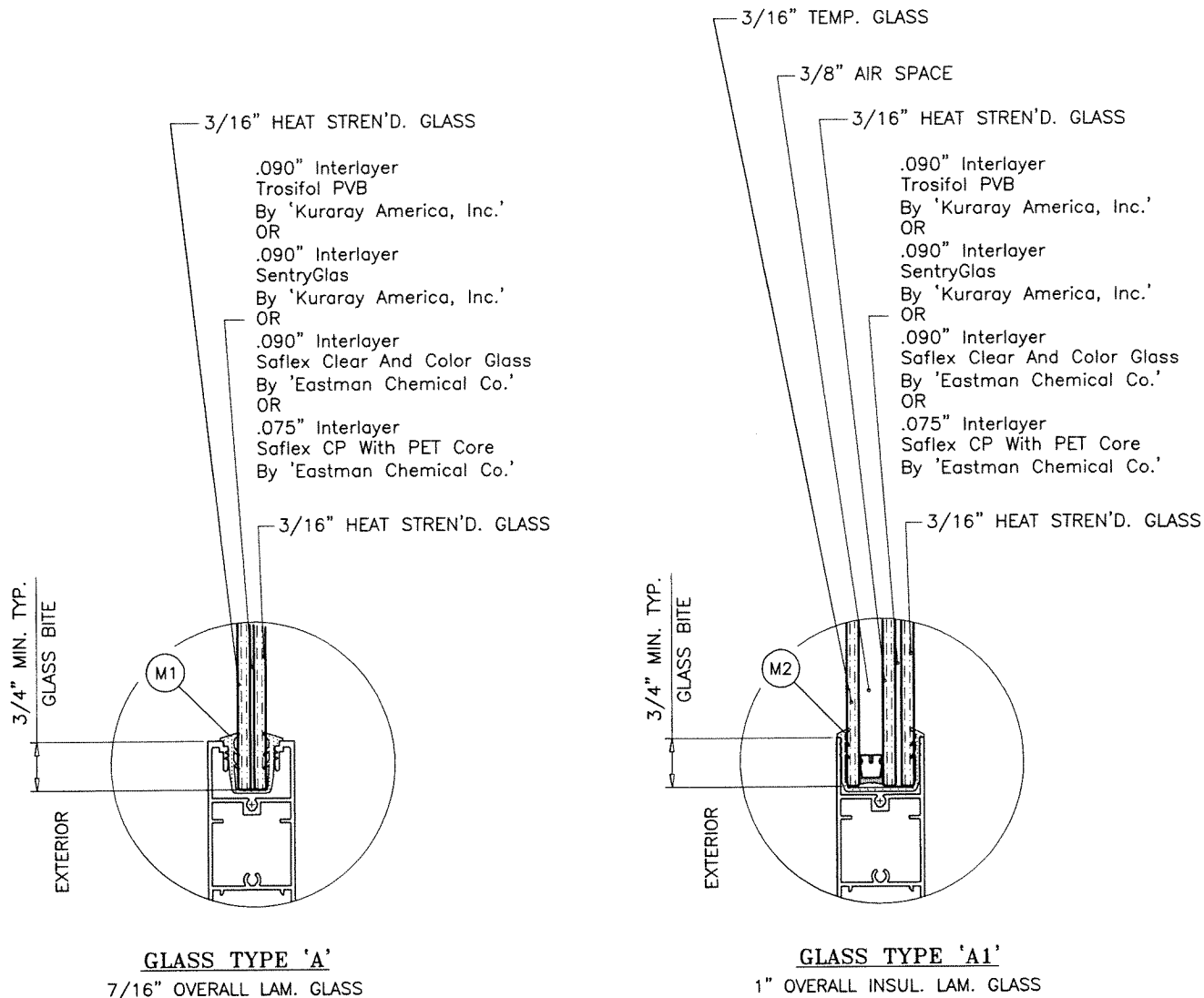
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0728.02  
Expiration Date 07/20/2022  
By Ishag I. Chande  
Miami-Dade Product Control

ALL EXT.(+) LOADS SHOWN IN CHART ARE FOR DOOR INSTALLATIONS  
WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.  
FOR DOOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS  
REQUIRED LIMIT EXT.(+) LOADS AS FOLLOWS.  
FOR 3-11/16" SILL HEIGHT LIMIT EXT.(+) LOADS TO 80.0 PSF  
FOR 3-1/8" SILL HEIGHT LIMIT EXT.(+) LOADS TO 66.6 PSF  
FOR 2-3/4" SILL HEIGHT LIMIT EXT.(+) LOADS TO 53.3 PSF  
SEE SHEET 14 FOR DETAILS



$$\text{AVERAGE PANEL WIDTH} = \frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY  
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

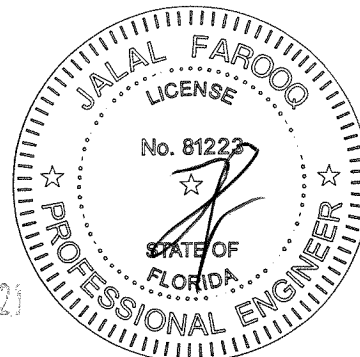


### GLAZING OPTIONS

**3/8" AIR SPACE CONSISTING OF:**  
**SPACER:**  
'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.  
**PERIMETER SEALANT:**  
SILICONE  
DOWSIL 791  
GE 2000

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

SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF  
DESIRED GLASS SIZE AND REINFORCING TYPES.  
SEE CHART ON SHEET 6 FOR HEAD ANCHOR CAPACITY.  
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART  
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



AUG 16 2021

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

no.	date	description	by
A	07.12.17	REV. PER PER COMMENTS	
B	11.09.20	UPDATED TO 2020 FBC	
C	06.23.21	NO CHANGE THIS SHEET	
D	08.04.21	NO CHANGE THIS SHEET	

date: 11-29-16  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W16-73**  
sheet 5 of 23



HEAD ANCHOR LOAD CAPACITY - PSF									
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPES 'A' & 'B'						ANCHOR TYPE 'C'	
		1/4" MAX. SHIM		3/8" MAX. SHIM		1/2" MAX. SHIM		3/8" MAX. SHIM	
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	47-1/4 82	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	71.5	80.0	80.0	80.0
48		80.0	80.0	80.0	80.0	63.6	80.0	80.0	80.0
54		80.0	80.0	80.0	80.0	62.6	80.0	80.0	80.0
60		80.0	80.0	71.6	80.0	55.6	74.2	72.7	80.0
30	47-1/4 84	72.7	80.0	64.4	80.0	50.1	66.8	65.4	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48		80.0	80.0	80.0	80.0	69.8	80.0	80.0	80.0
54		80.0	80.0	79.8	80.0	62.1	80.0	80.0	80.0
60		80.0	80.0	78.6	80.0	61.1	80.0	79.8	80.0
30	47-1/4 90	78.9	80.0	69.9	80.0	54.3	72.4	71.0	80.0
36		71.0	80.0	62.9	80.0	48.9	65.2	63.9	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48		80.0	80.0	80.0	80.0	76.1	80.0	80.0	80.0
54		80.0	80.0	80.0	80.0	65.2	80.0	80.0	80.0
60		80.0	80.0	74.5	80.0	57.9	77.3	75.7	80.0
30	47-1/4 96	80.0	80.0	73.4	80.0	57.0	76.1	74.5	80.0
36		73.6	80.0	65.2	80.0	50.7	67.6	66.2	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48		80.0	80.0	80.0	80.0	71.3	80.0	80.0	80.0
54		80.0	80.0	78.6	80.0	61.1	80.0	79.8	80.0
60		78.9	80.0	69.9	80.0	54.3	72.4	71.0	80.0
30	47-1/4 102	60.0	60.0	60.0	60.0	53.5	60.0	60.0	60.0
36		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
48		60.0	60.0	60.0	60.0	57.5	60.0	60.0	60.0
54		60.0	60.0	60.0	60.0	51.1	60.0	60.0	60.0
60		60.0	60.0	60.0	60.0	50.3	60.0	60.0	60.0
30	47-1/4 108	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42		60.0	60.0	60.0	60.0	54.3	60.0	60.0	60.0
48		60.0	60.0	60.0	60.0	48.3	60.0	60.0	60.0
54		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

SEE CHART ON SHEET 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
NOA-No. 21-0728.02

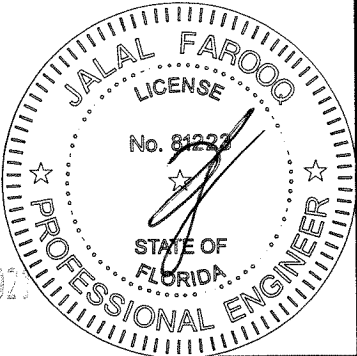
Expiration Date 07/20/2022

By Ishaq I. Chande  
Miami-Dade Product Control

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
NOA-No. 22-0118.06

Expiration Date 07/20/2027

By Ishaq I. Chande  
Miami-Dade Product Control



AUG 16 2021

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

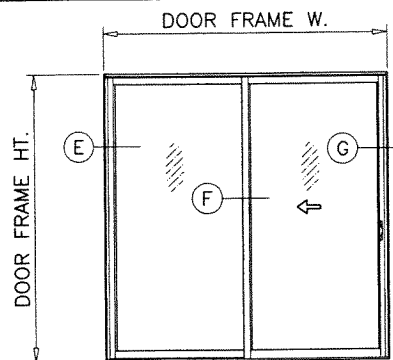
E.S. WINDOWS, LLC  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		by description	
no	date	no	date
A	07.12.17	REV. PER RER COMMENTS	
B	11.09.20	UPDATED TO 2020 FBC	
C	06.23.21	NO CHANGE THIS SHEET	
D	08.04.21	NO CHANGE THIS SHEET	
date: 11-28-16		drawing no.	
scale: -		W16-73	
dr. by: TARIQ		sheet 6 of 23	
chk. by:			

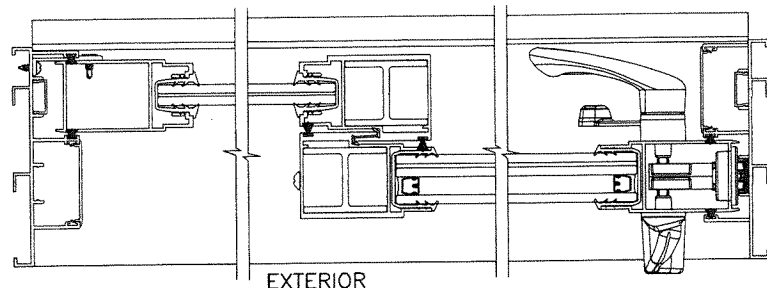
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

**af c**

COMP-ANL\W16-73ES



OX (SHOWN)  
XO



EXTERIOR

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0728.02

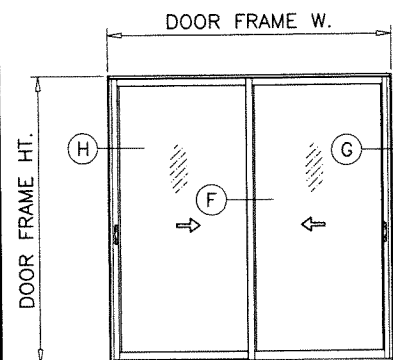
Expiration Date 07/20/2022

By Ishag I. Chande  
Miami-Dade Product Control

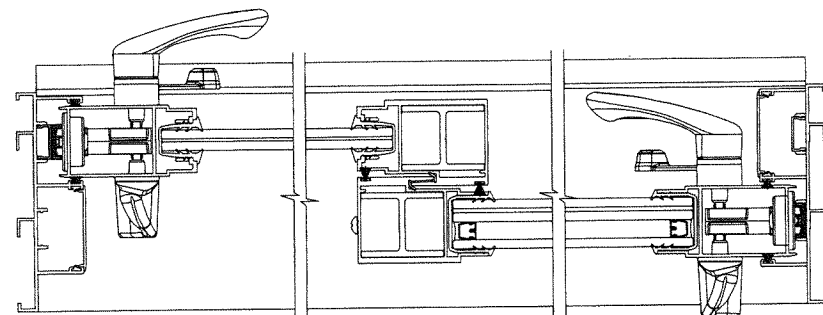
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0118.06

Expiration Date 07/20/2027

By Ishag I. Chande  
Miami-Dade Product Control



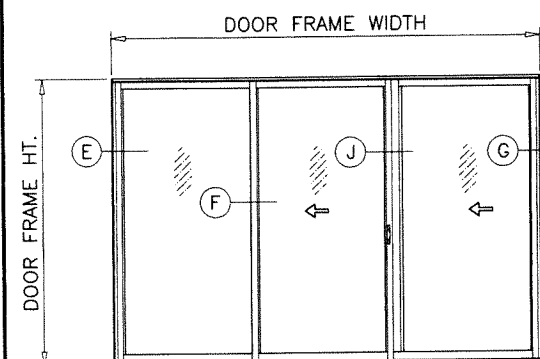
XX (SHOWN)



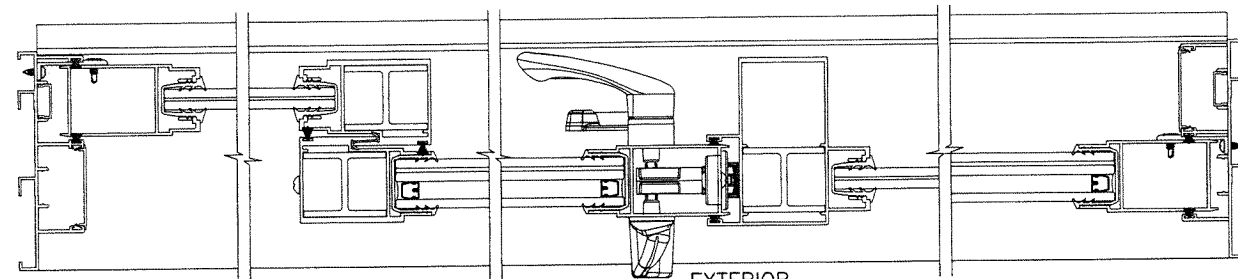
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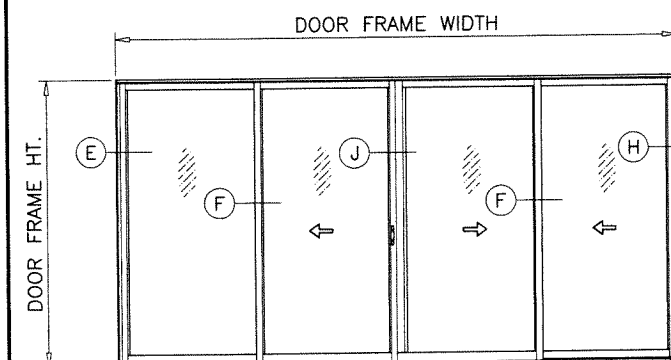
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2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.



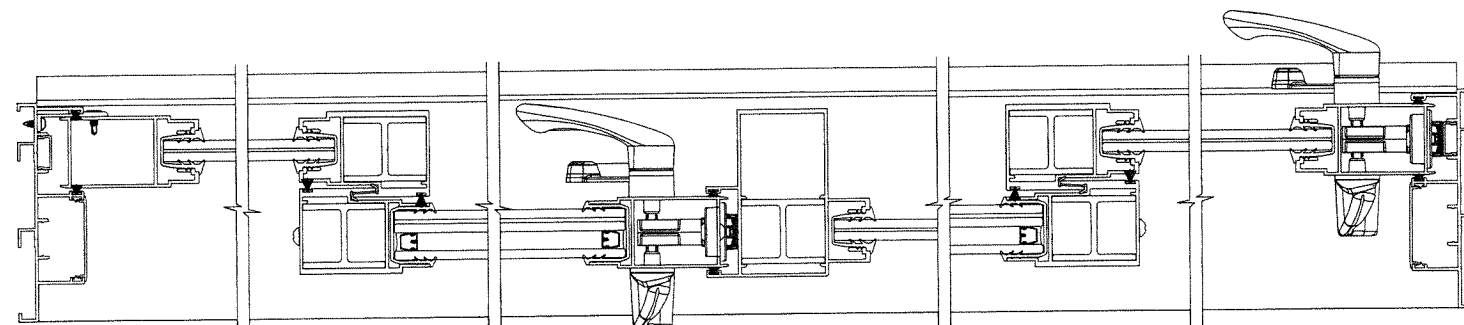
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O-XO



EXTERIOR

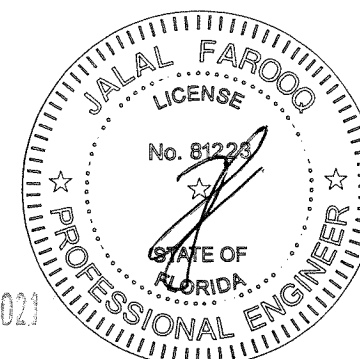


OX-XX (SHOWN)  
XX-XO  
OX-XO  
XX-XX



EXTERIOR

**APPROVED CONFIGURATIONS**  
**NON-POCKETED DOORS**  
**TWO (2) TRACKS**



AUG 16 2021

**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\W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

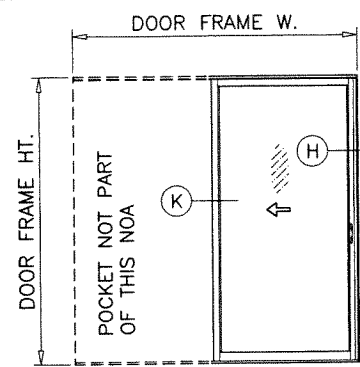
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		B	11.09.20		UPDATED TO 2020 FBC
		C	06.23.21		NO CHANGE THIS SHEET
		D	08.04.21		NO CHANGE THIS SHEET
dr. by: TARIQ					
chk. by:					

drawing no.

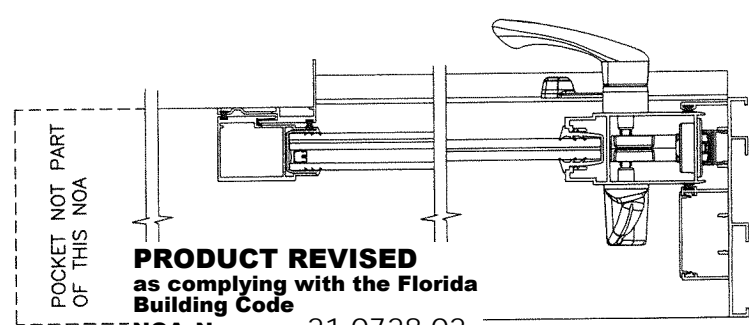
W16-73

sheet 7 of 23





PX (SHOWN)  
XP

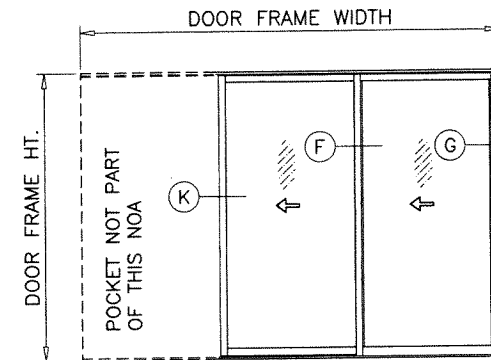


EXTERIOR

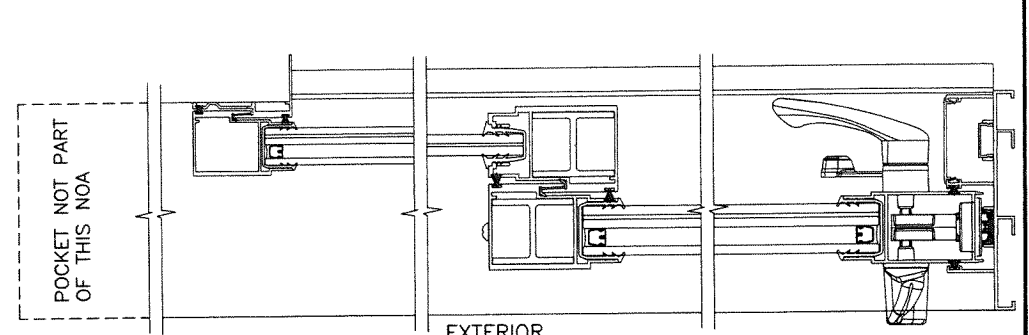
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0728.02

Expiration Date 07/20/2022

By *Ishaq I. Chande*  
Miami-Dade Product Control



PXX (SHOWN)  
XXP

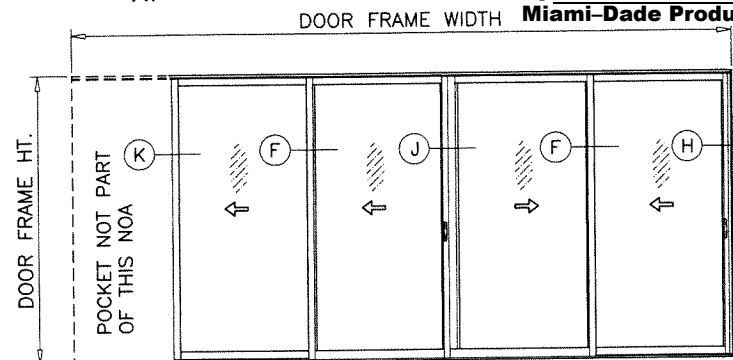


EXTERIOR

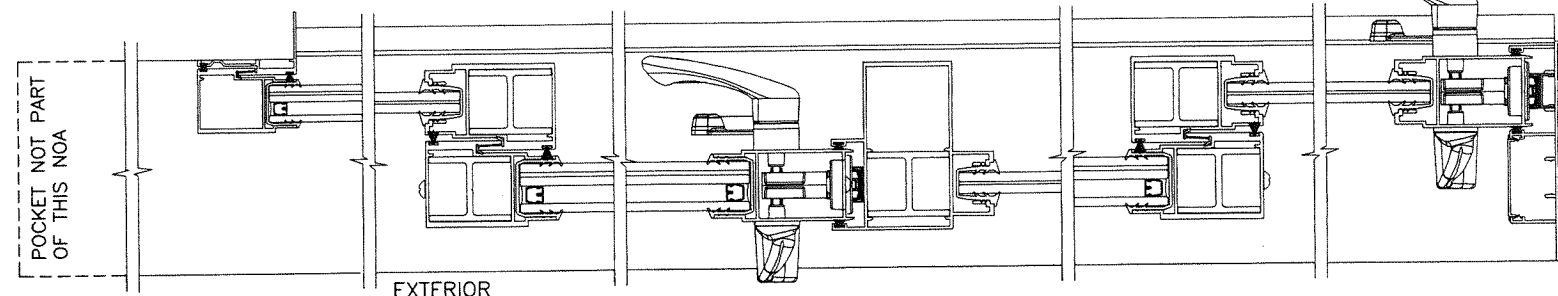
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0118.06

Expiration Date 07/20/2027

By *Ishaq I. Chande*  
Miami-Dade Product Control



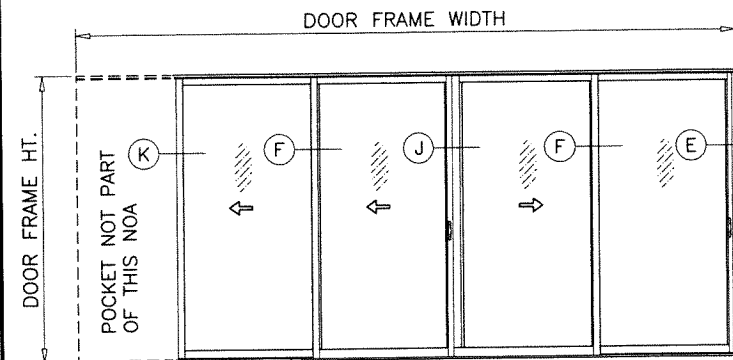
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XX-XXP



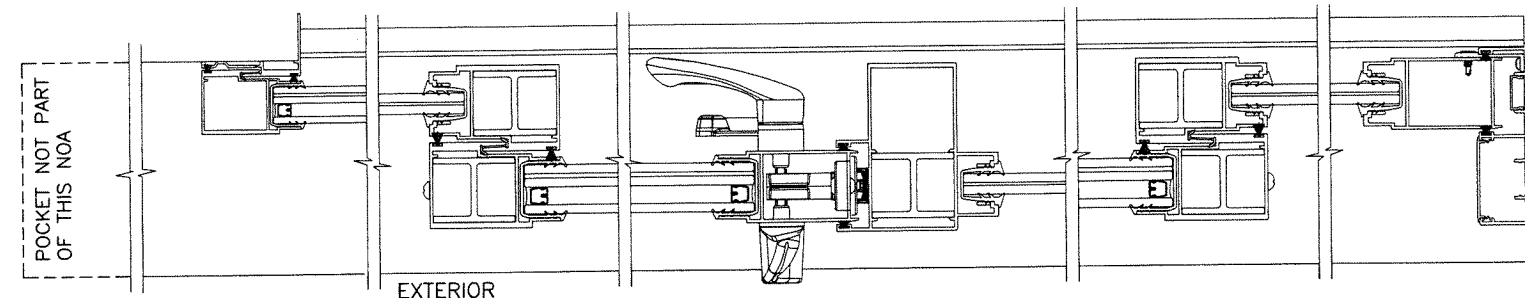
EXTERIOR

NOTE:

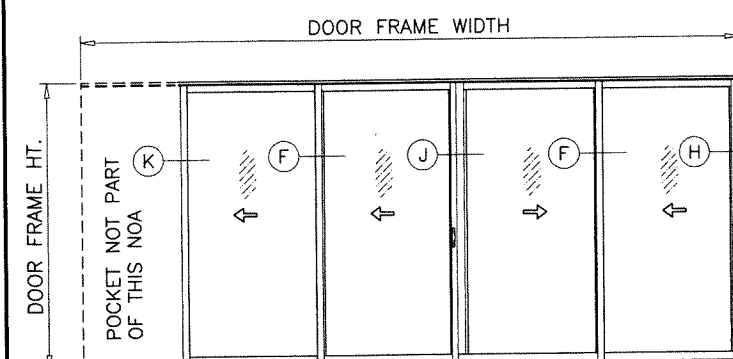
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.



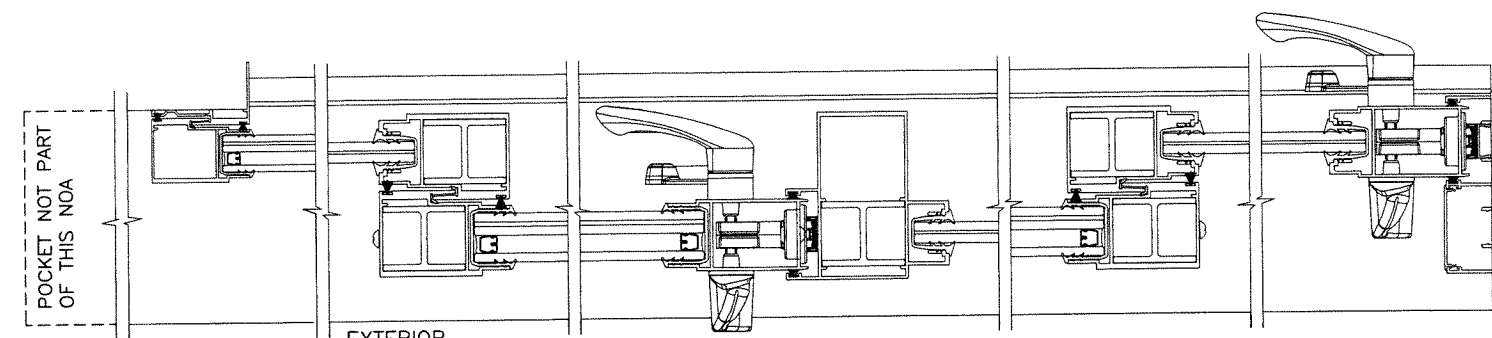
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OX-XXP



EXTERIOR

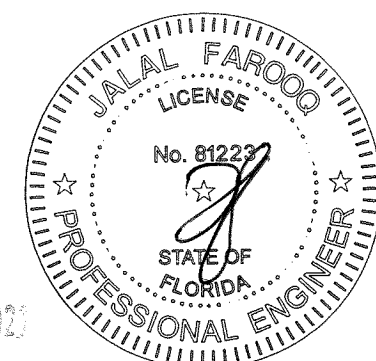


PXX-XX (SHOWN)  
XX-XXP  
PXX-XXP



EXTERIOR

**APPROVED CONFIGURATIONS**  
**POCKETED DOORS**  
**TWO (2) TRACKS**



AUG 16 2023

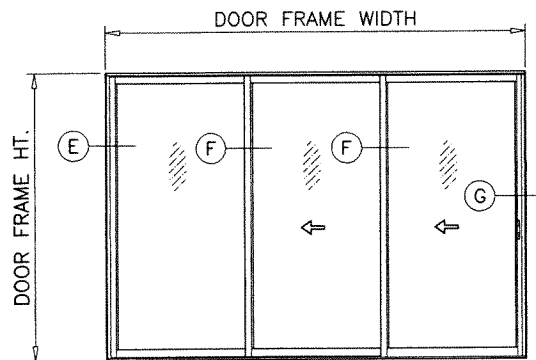
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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COMP-ANL\W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)  
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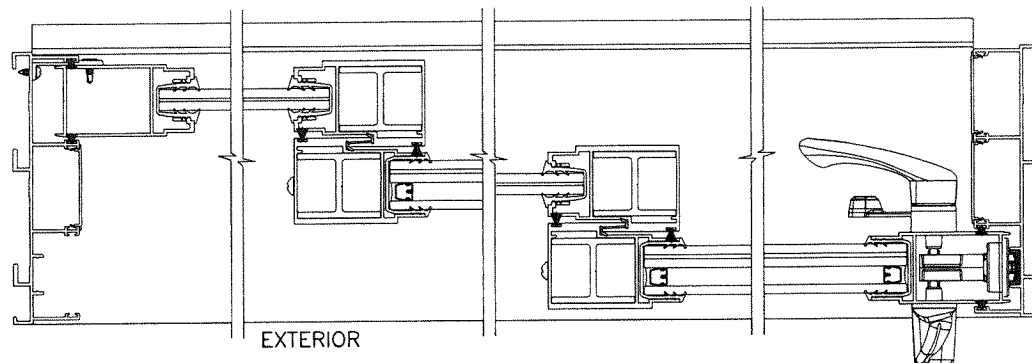
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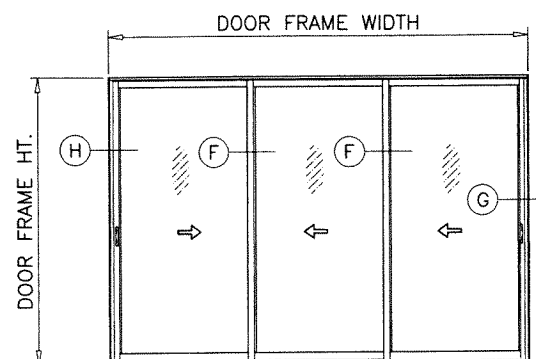
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drawing no. W16-73	sheet 8 of 23		



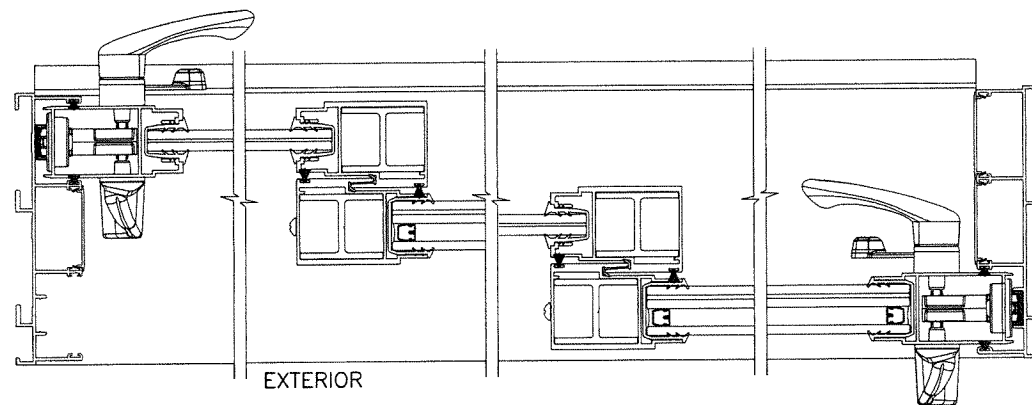
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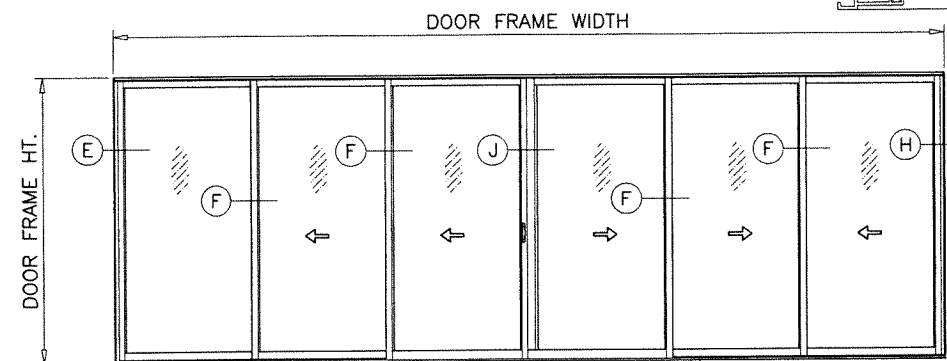
EXTERIOR



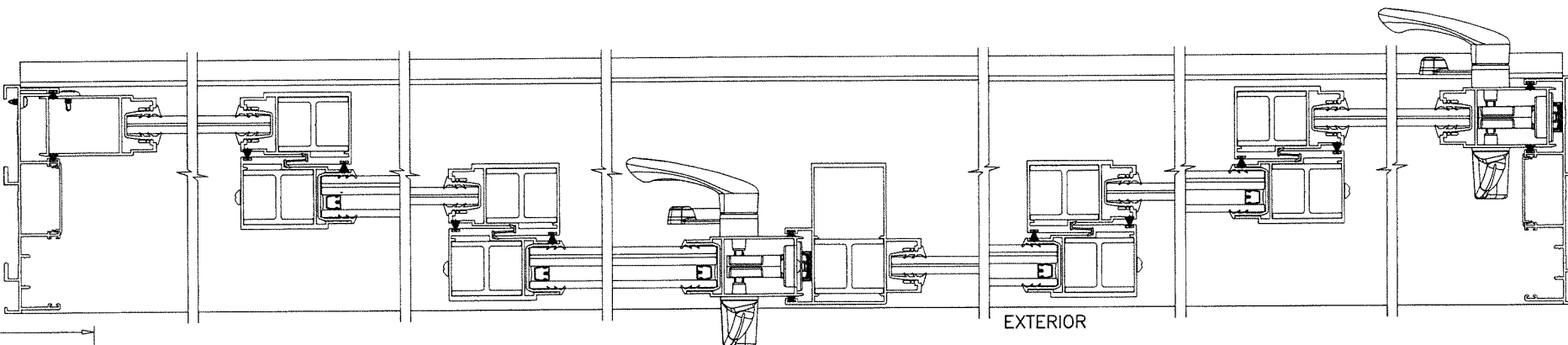
XXX (SHOWN)



EXTERIOR



XXX-XXX (SHOWN)  
XXX-XXO  
XXX-XXO  
XXX-XXX



EXTERIOR

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0728.02

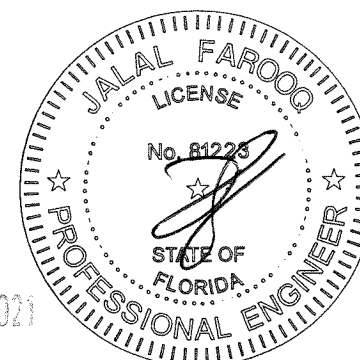
Expiration Date 07/20/2022

By Ishag I. Chande  
Miami-Dade Product Control

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0118.06

Expiration Date 07/20/2027

By Ishag I. Chande  
Miami-Dade Product Control



AUG 16 2021

APPROVED CONFIGURATIONS  
NON-POCKETED DOORS  
THREE (3) TRACKS

**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

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

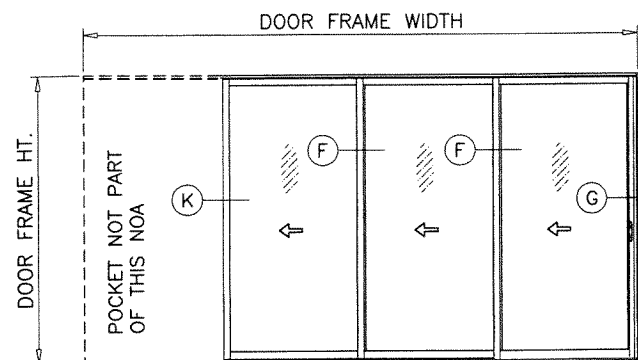
**E.S. WINDOWS, LLC**  
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MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no.	date	by	description
	A	07.12.17		NO CHANGE THIS SHEET
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	C	06.23.21		NO CHANGE THIS SHEET
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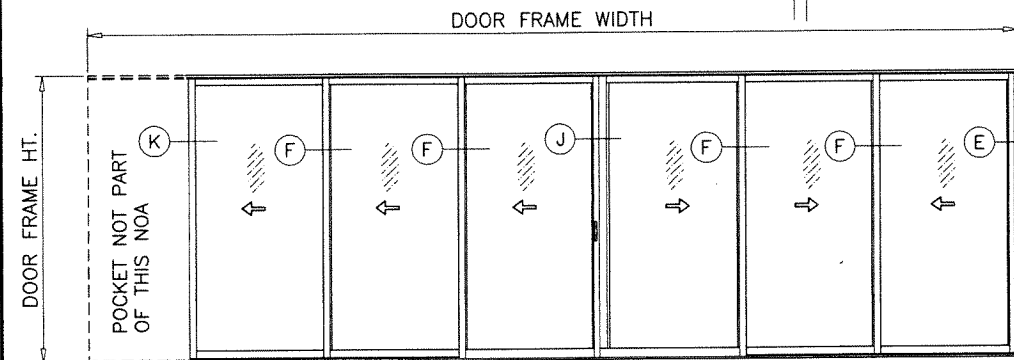
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drawing no. W16-73		sheet 9 of 23	



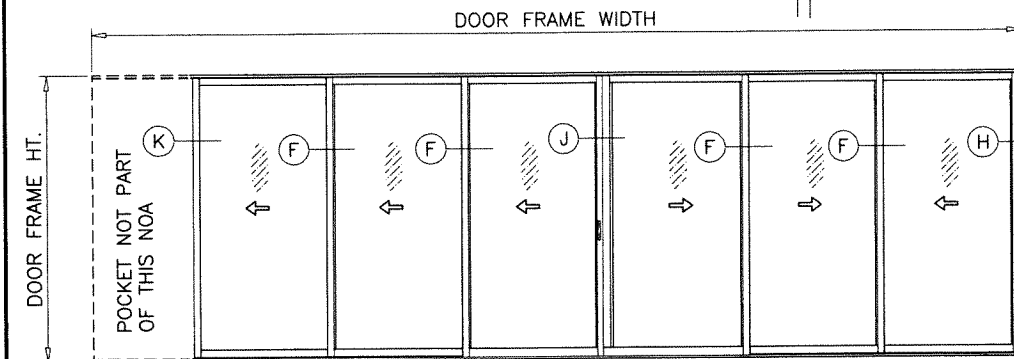


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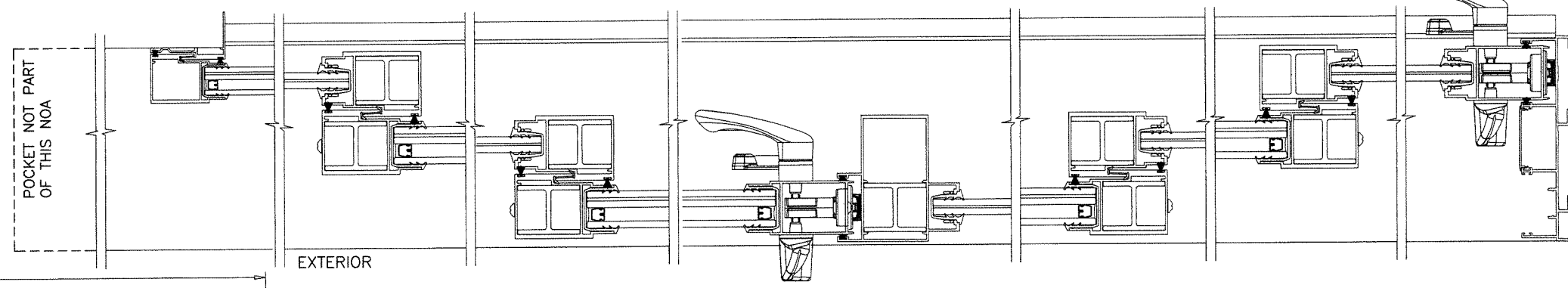
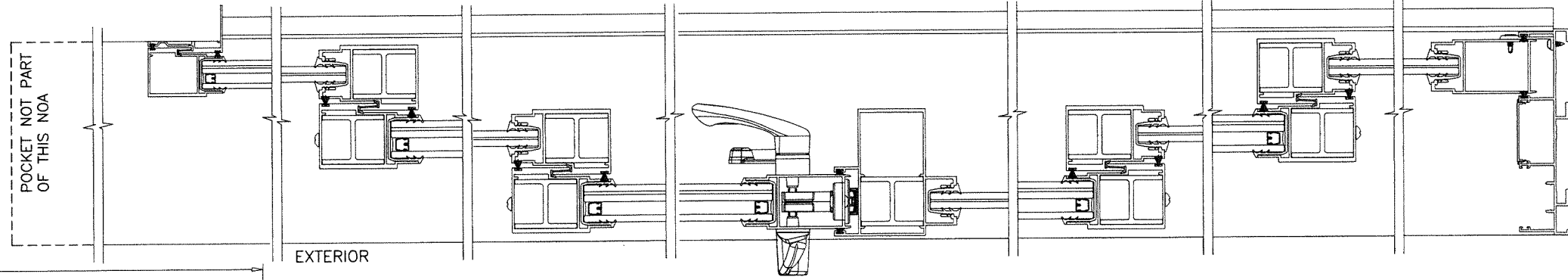
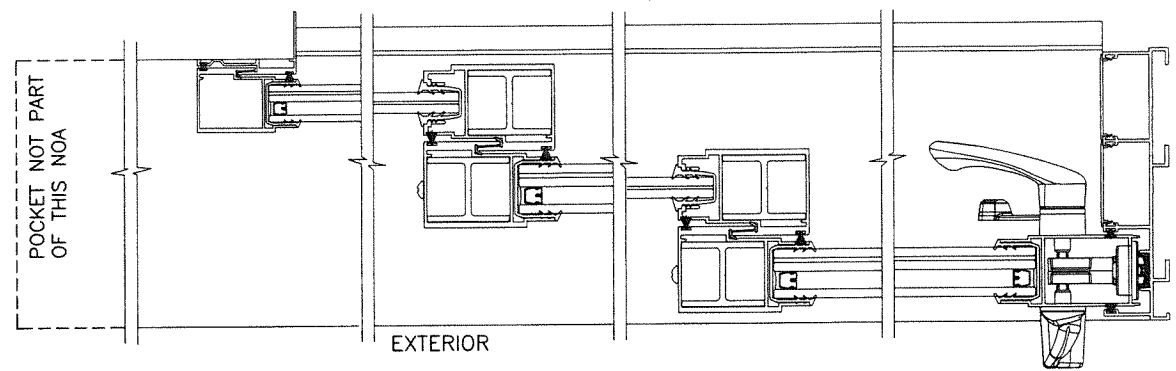
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0728.02  
Expiration Date 07/20/2022  
By Ishag I. Chande  
Miami-Dade Product Control



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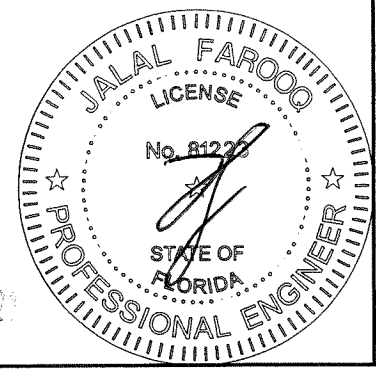


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- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
  2. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 5.
  3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.

APPROVED CONFIGURATIONS  
POCKETED DOORS  
THREE (3) TRACKS



AUG 16 2021

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

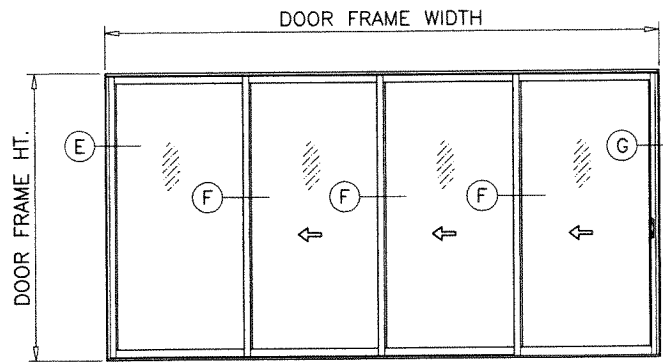
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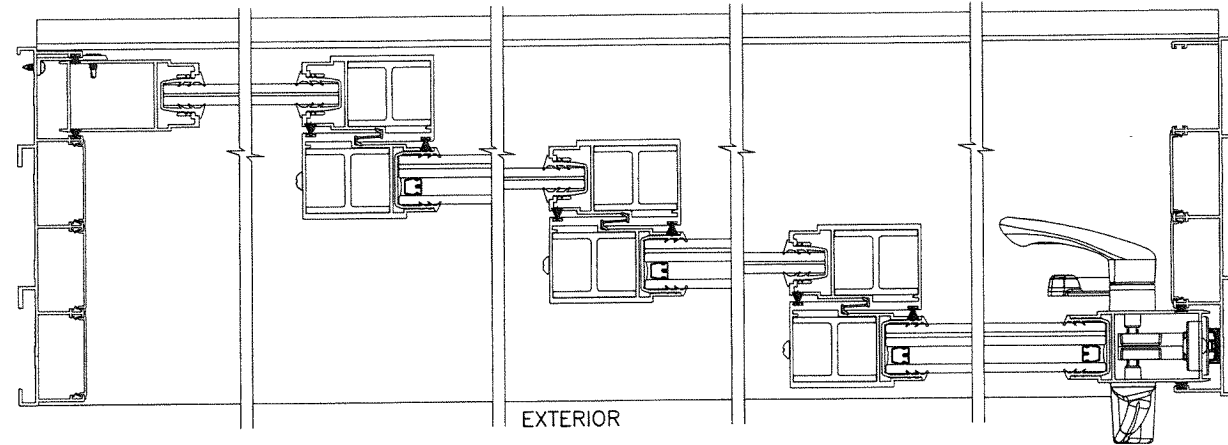
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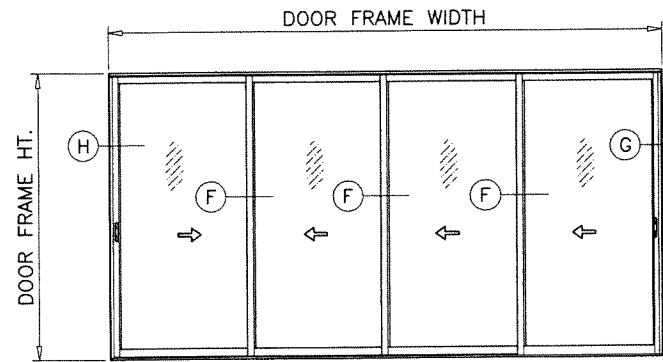
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sheet	10 of 23



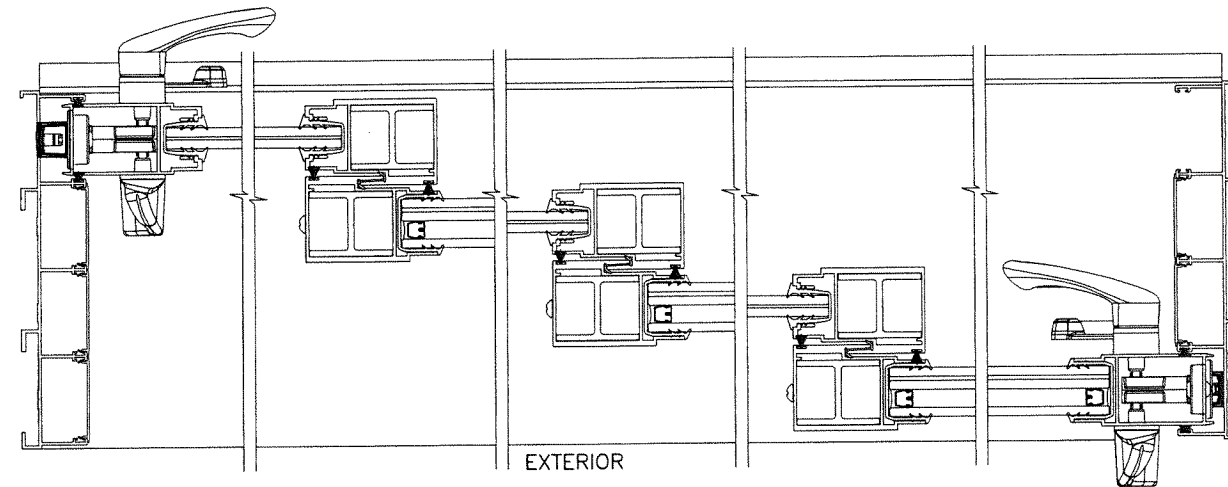
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EXTERIOR



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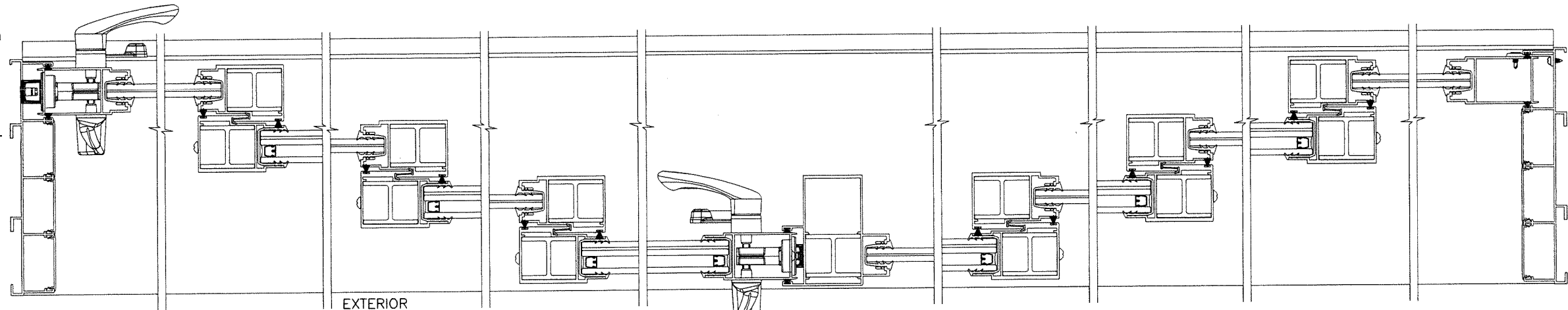


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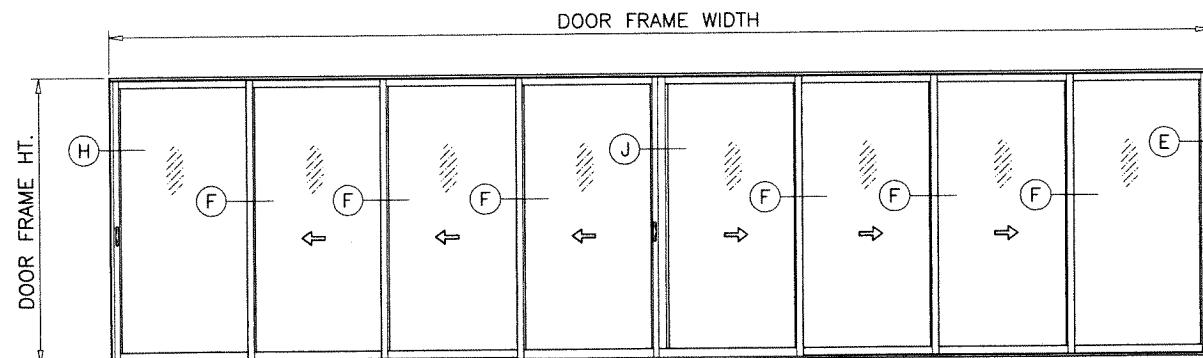
**PRODUCT REVISED**  
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NOA-No. 21-0728.02

Expiration Date 07/20/2022

By Ishag I. Chande  
Miami-Dade Product Control



EXTERIOR



XXXX-XXXX (SHOWN)  
OXXX-XXXX  
OXXX-XXXX  
XXXX-XXXX

APPROVED CONFIGURATIONS  
NON-POCKETED DOORS  
FOUR (4) TRACKS

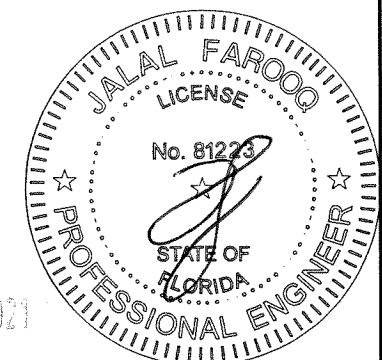
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**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0118.06

Expiration Date 07/20/2027

By Ishag I. Chande  
Miami-Dade Product Control



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ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-73ES

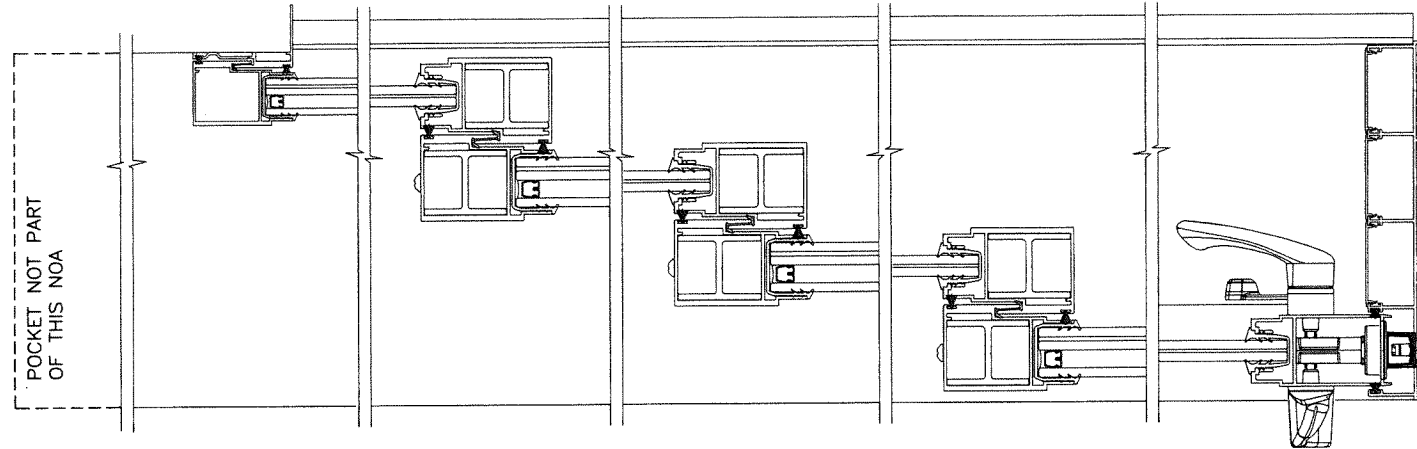
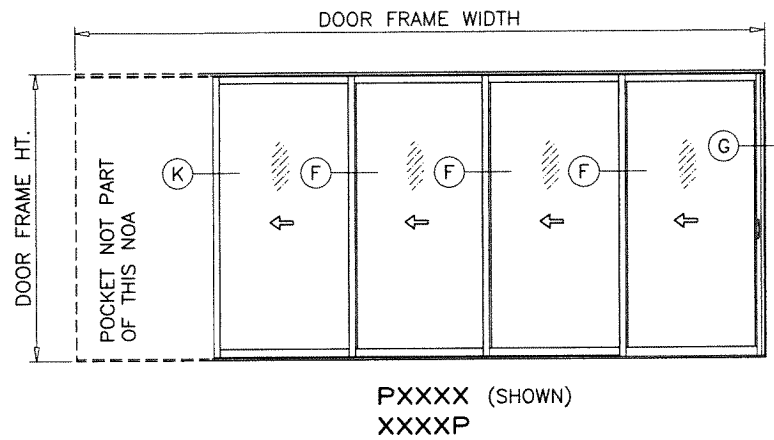
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

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dr. by: TARIQ  
chk. by:  
drawing no.  
**W16-73**  
sheet 11 of 23



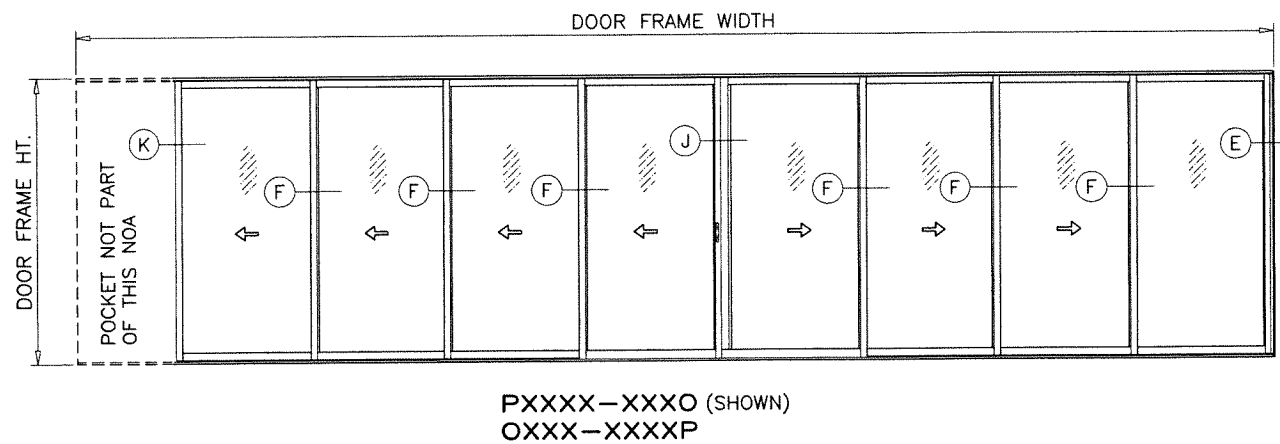
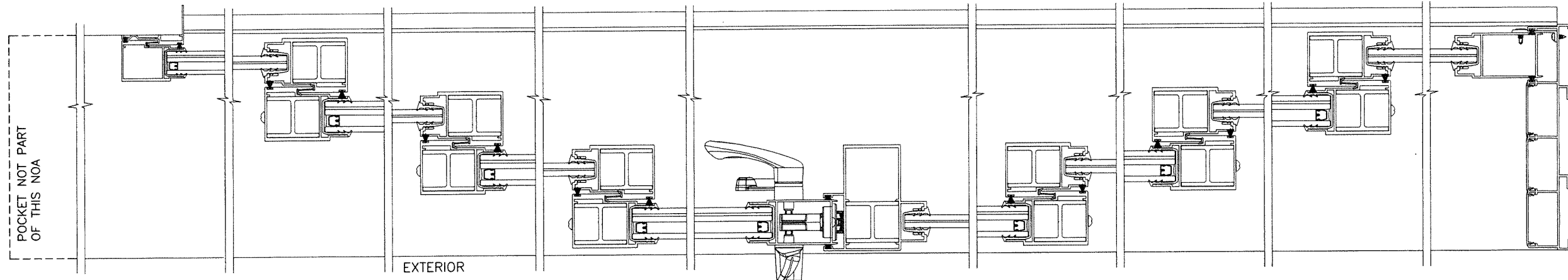


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as complying with the Florida  
Building Code  
NOA-No. 21-0728.02  
Expiration Date 07/20/2022  
By Ishag I. Chande  
Miami-Dade Product Control

**PRODUCT RENEWED**  
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Building Code  
NOA-No. 22-0118.06  
Expiration Date 07/20/2027  
By Ishag I. Chande  
Miami-Dade Product Control

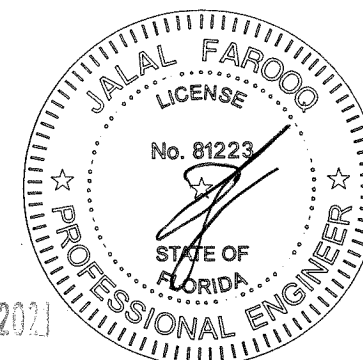
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3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.



APPROVED CONFIGURATIONS  
POCKETED DOORS  
FOUR (4) TRACKS

AUG 16 2021



**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 W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)  
E.S. WINDOWS, LLC  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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dr. by: TARIQ  
chk. by:

drawing no.  
**W16-73**

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**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0728.02

Expiration Date 07/20/2022

By Ishag I. Chande  
Miami-Dade Product Control

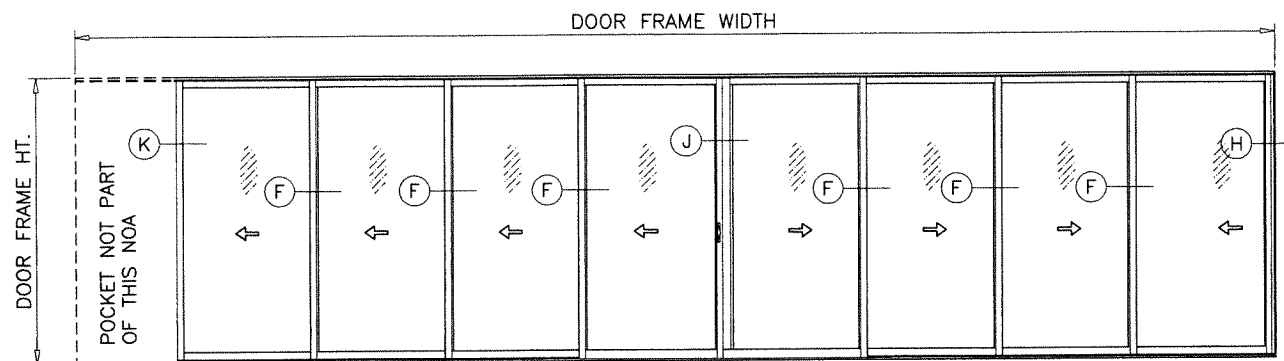
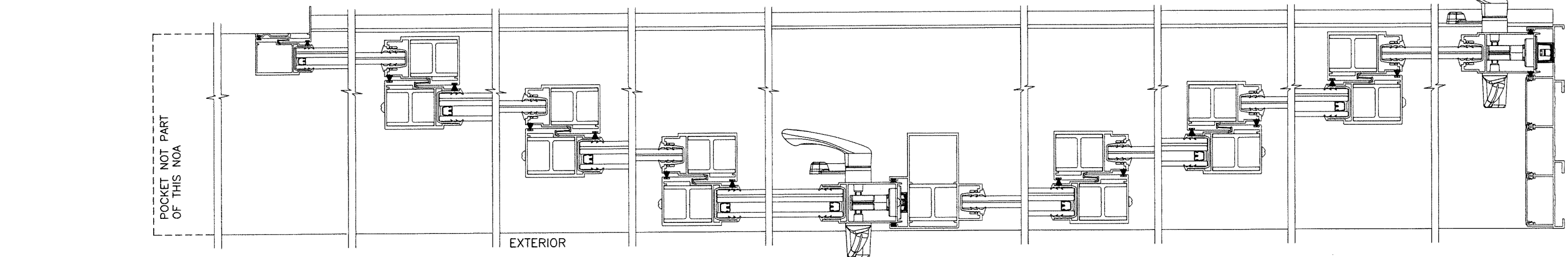
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NOA-No. 22-0118.06

Expiration Date 07/20/2027

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Miami-Dade Product Control

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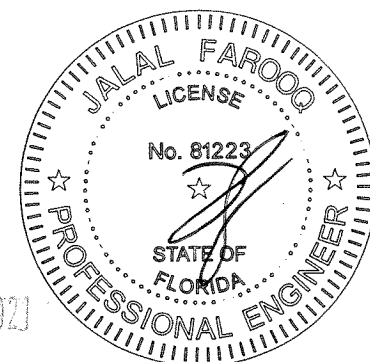
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PXXXX-XXXX (SHOWN)  
XXXX-XXXXP  
PXXXX-XXXXP

APPROVED CONFIGURATIONS  
POCKETED DOORS  
FOUR (4) TRACKS

AUG 16 2021



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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C.A.N. 3538

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)  
E.S. WINDOWS, LLC  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

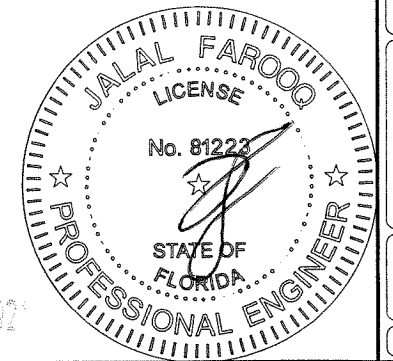
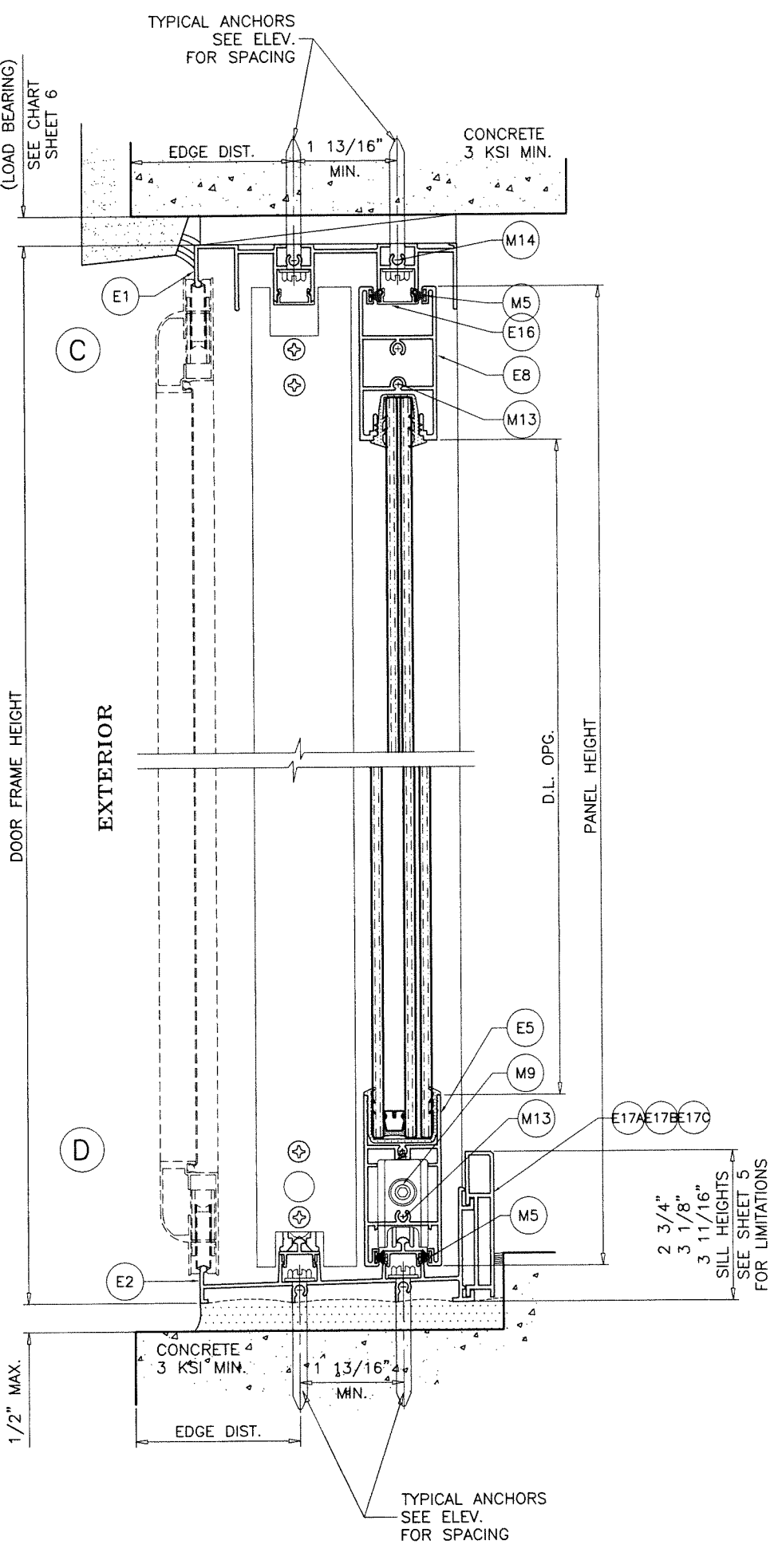
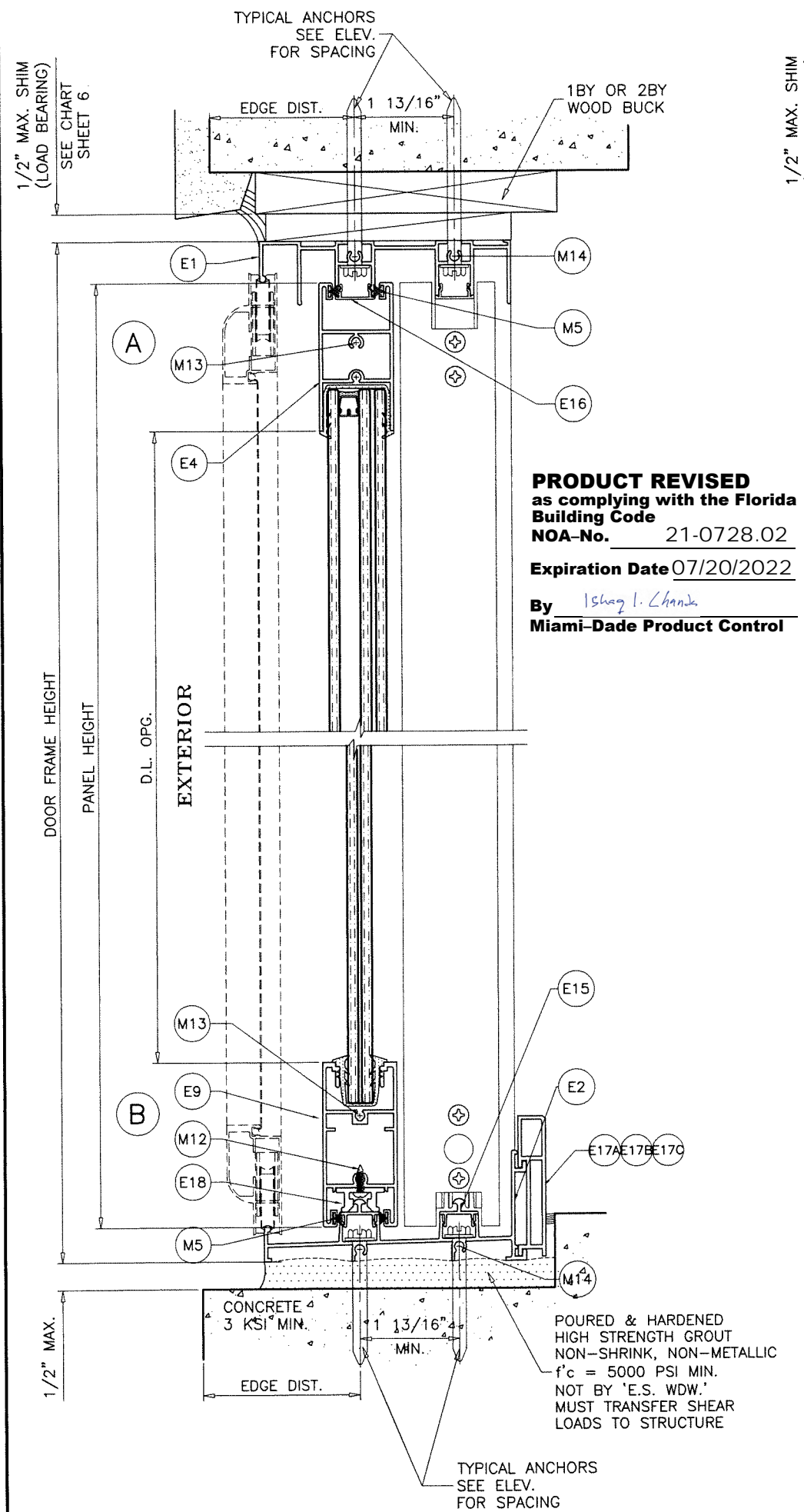
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dr. by: TARIQ  
chk. by:

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W16-73

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COMP-ANL\W16-73ES



AUG 16 2022

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-73ES

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

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D	08.04.21	SILL RISER	SILL RISER	OPTIONS ADDED	

date: 11-28-16

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.  
**W16-73**

sheet 14 of 23

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**AT HEAD**

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)  
INTO WOOD STRUCTURES  
2" MIN. PENETRATION INTO WOOD  
THRU 1BY BUCKS INTO CONCRETE  
1-3/4" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.  
THRU 2BY BUCKS INTO CONCRETE  
1-1/2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)  
DIRECTLY INTO CONCRETE  
2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.

TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)  
INTO F.B.C. APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES  
(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)

**AT SILL**

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED INTO CONCRETE

**AT JAMBS**

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)  
INTO WOOD STRUCTURES  
2" MIN. PENETRATION INTO WOOD  
THRU 1BY OR 2BY BUCKS INTO CONC. OR FILLED BLOCK  
1-1/4" MIN. EMBED INTO CONCRETE  
1-1/2" MIN. EMBED INTO FILLED BLOCKS

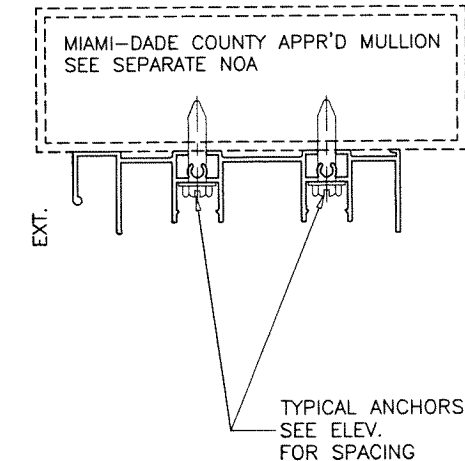
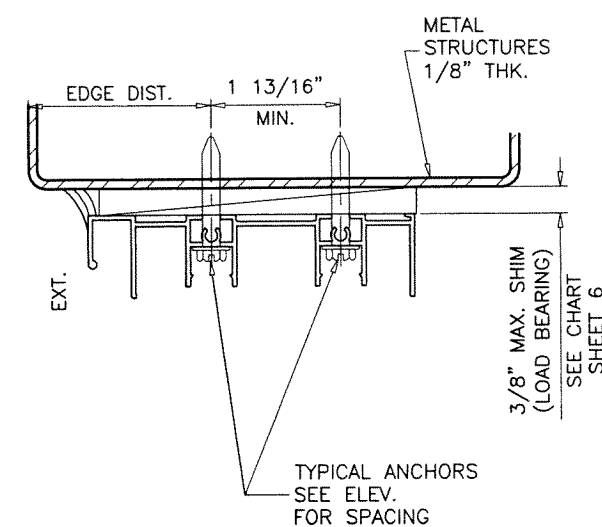
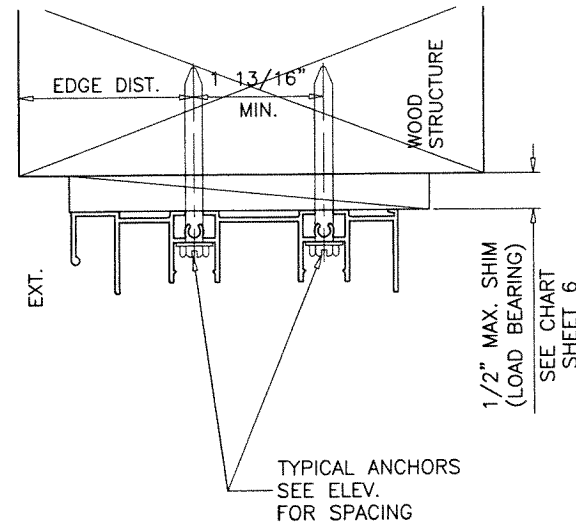
TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)  
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS  
2" MIN. EMBED INTO CONCRETE  
2" MIN. EMBED INTO GROUT FILLED BLOCKS

TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)  
INTO F.B.C. APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES  
(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)

**ANCHOR EDGE DISTANCES**

INTO CONCRETE AND MASONRY = 2-1/2" MIN. (UNLESS SPECIFIED OTHERWISE)  
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 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



**PRODUCT REVISED**  
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Building Code  
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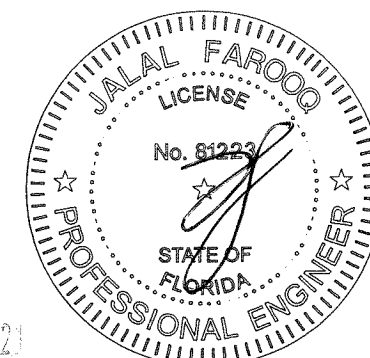
By Ishag I. Chande  
Miami-Dade Product Control

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0118.06

Expiration Date 07/20/2027

By Ishag I. Chande  
Miami-Dade Product Control

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.



**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-73ES

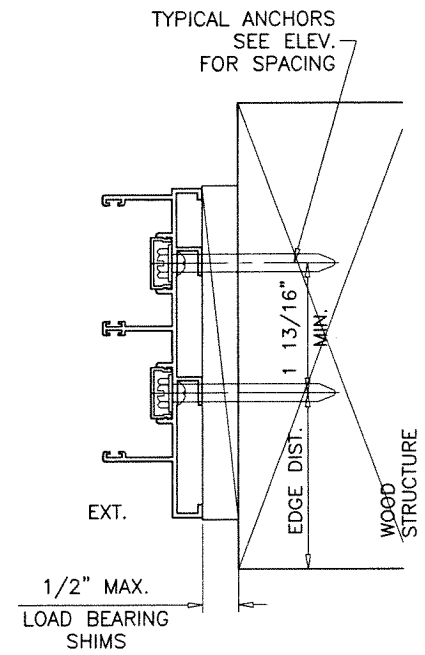
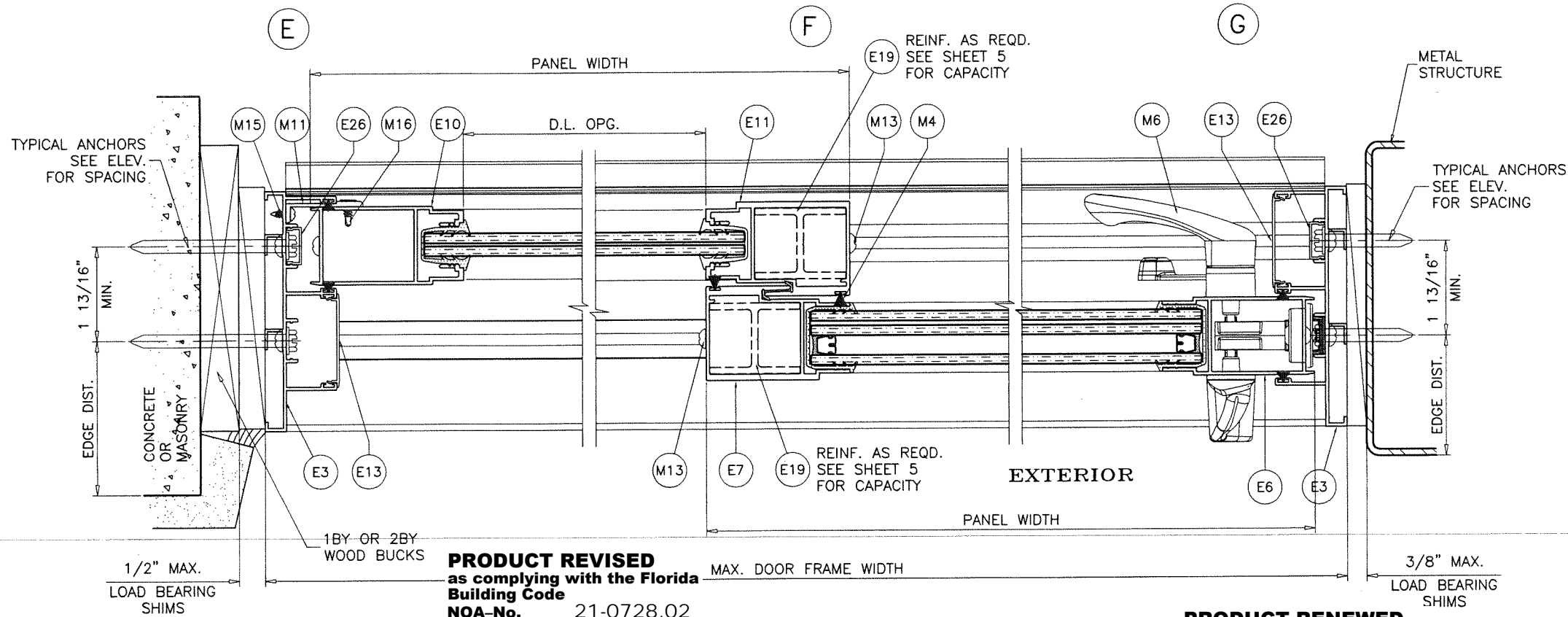
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
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sheet 15 of 23					

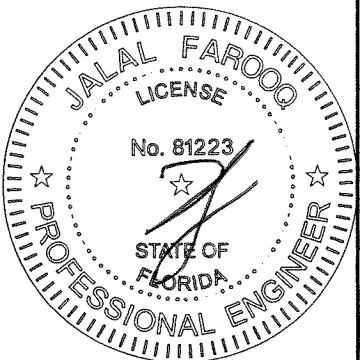
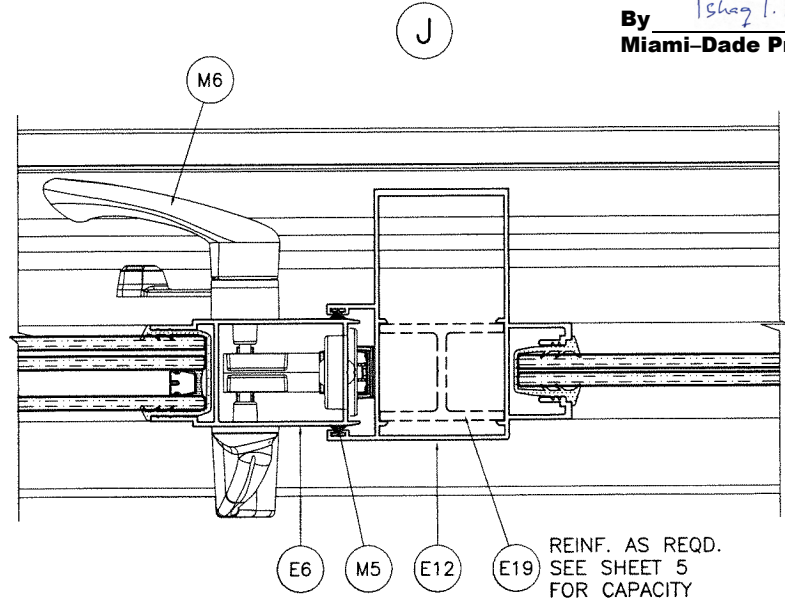
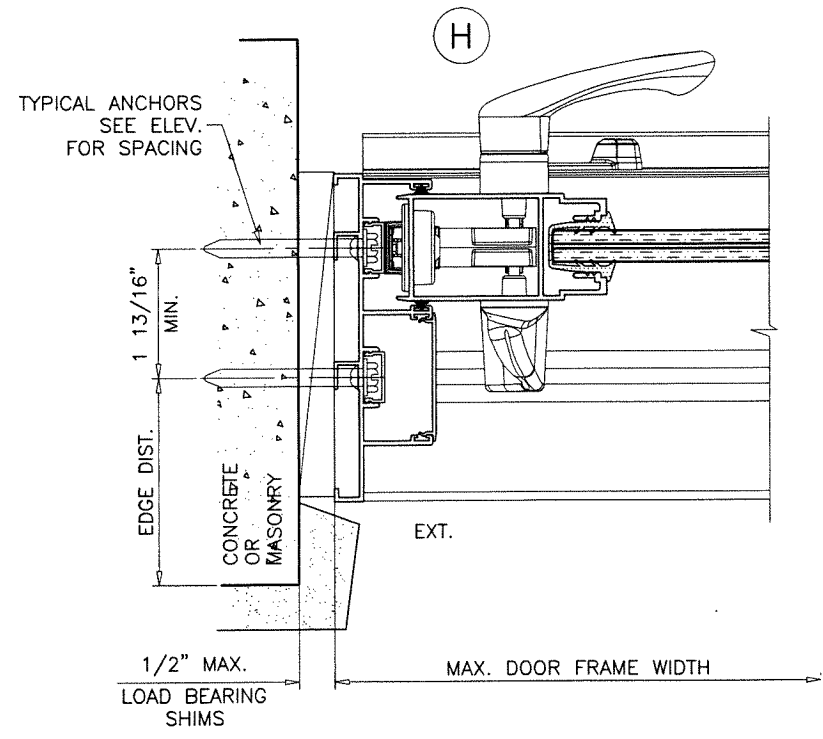
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**PRODUCT REVISED**  
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Miami-Dade Product Control

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Miami-Dade Product Control



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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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COMP-ANL\W16-73ES

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ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC  
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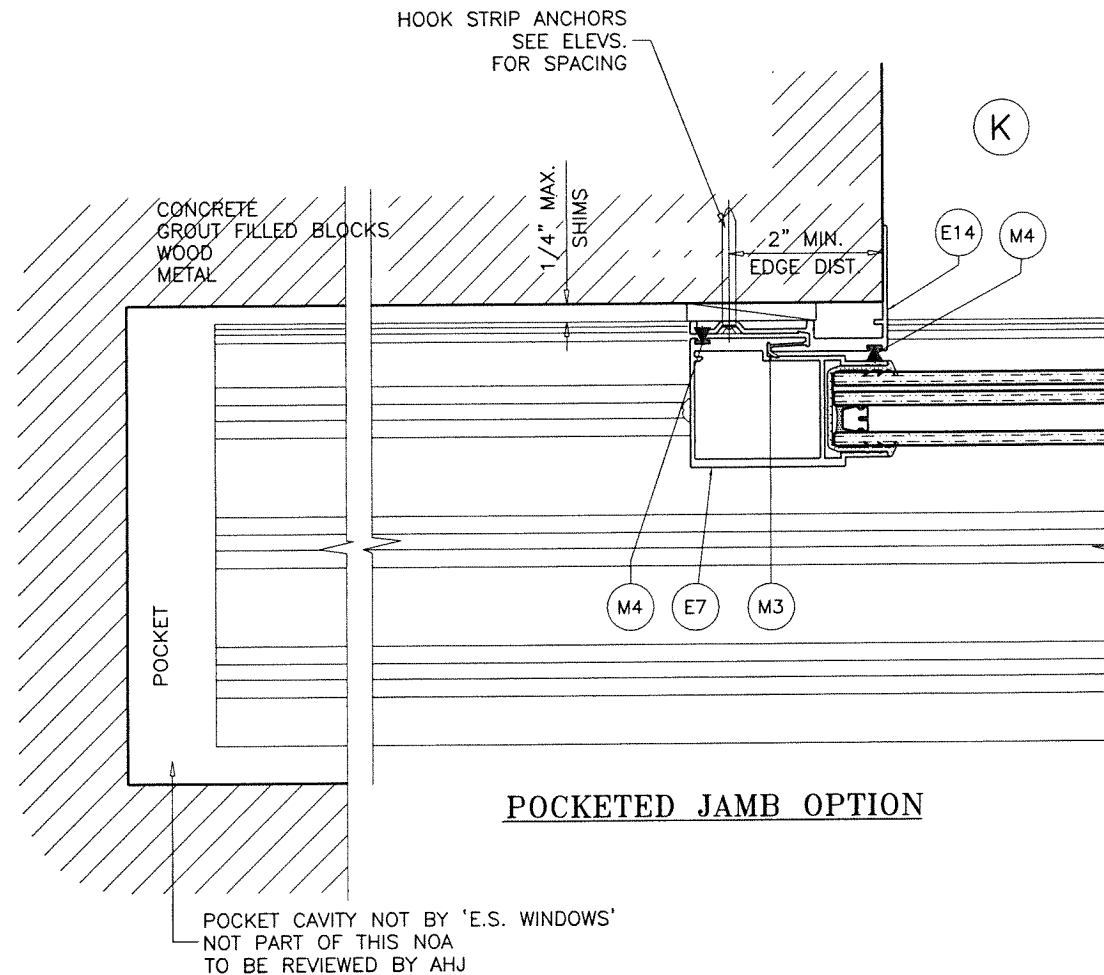
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chk. by:

drawing no.  
**W16-73**  
sheet 16 of 23

**PRODUCT REVISED**  
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Miami-Dade Product Control

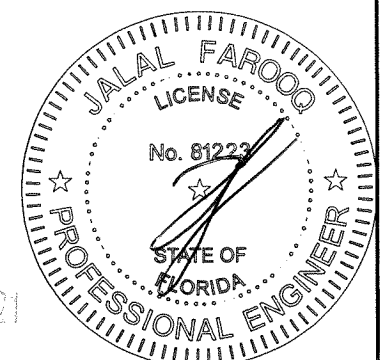
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Expiration Date 07/20/2027  
By Ishaq I. Chande  
Miami-Dade Product Control



**HOOK STRIP ANCHORS:** SEE ELEV. FOR SPACING  
**1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS  
1-3/4" MIN. EMBED INTO CONCRETE  
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS

**#14 SMS** (GRADE 2 CRS)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD  
**#14 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)  
INTO METAL STRUCTURES  
(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" MIN.  
INTO WOOD STRUCTURE = 1" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.



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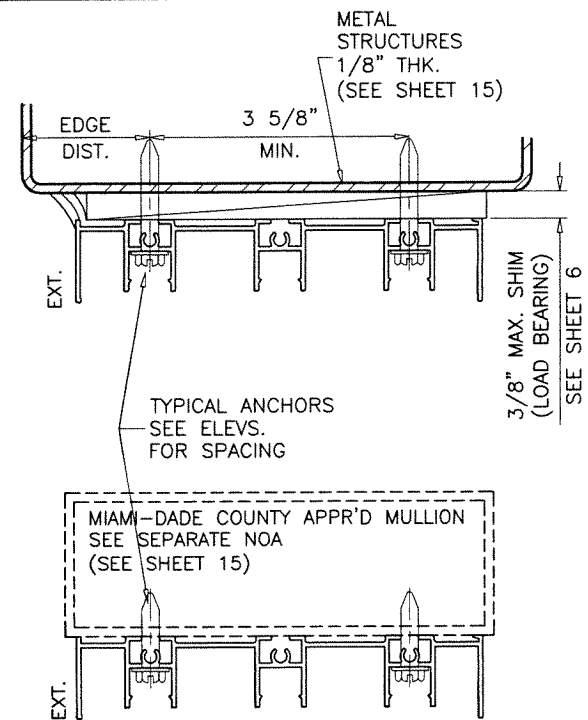
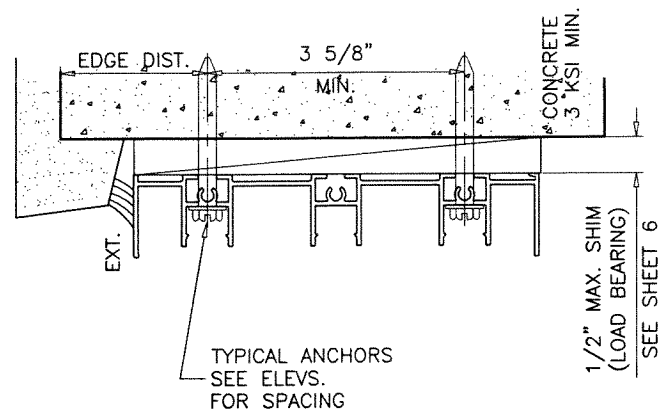
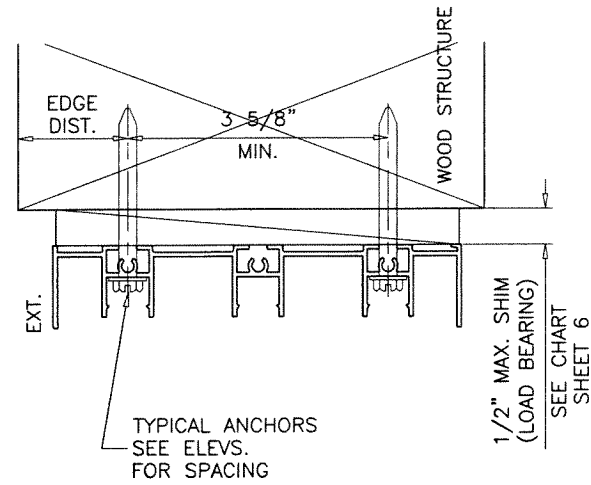
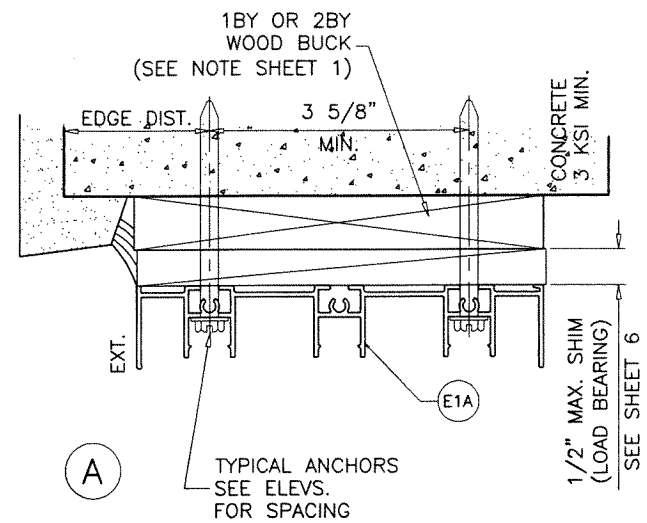
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W16-73ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		date:		scale:		dr. by:		chk. by:		drawing no.		sheet	
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B	UPDATED TO 2020 FBC	2	11.09.20	2	UPDATED TO 2020 FBC	2	11.09.20	2	UPDATED TO 2020 FBC	2	UPDATED TO 2020 FBC	2	UPDATED TO 2020 FBC
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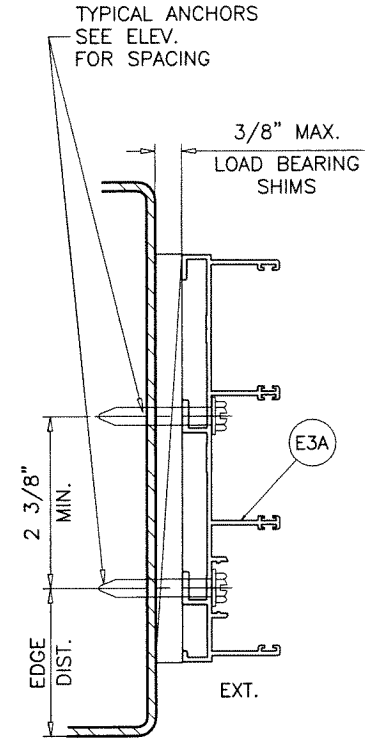
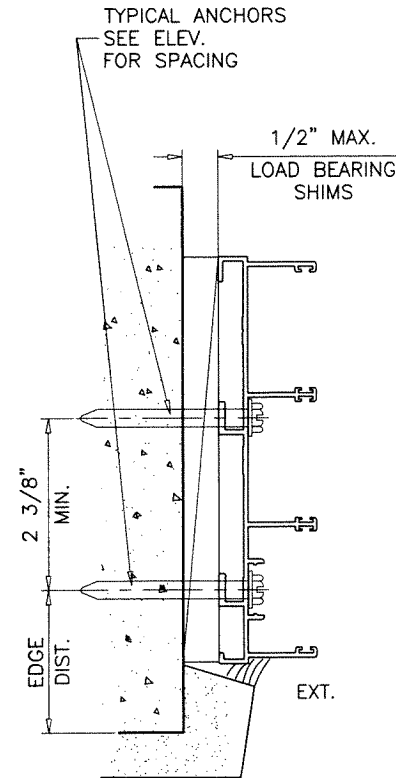
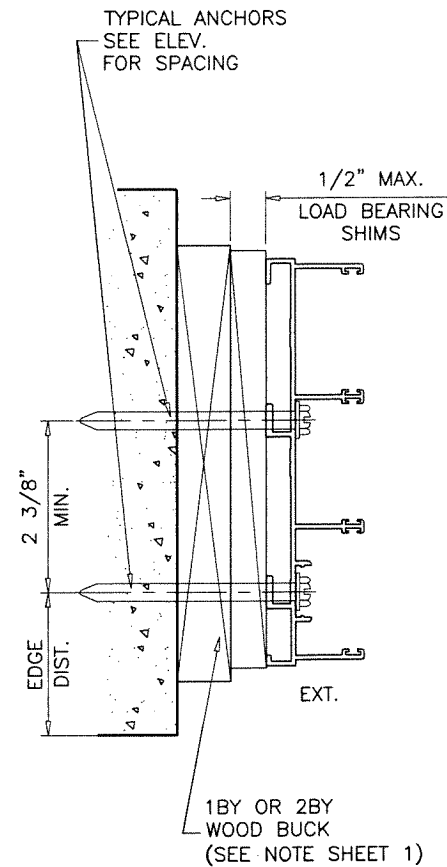
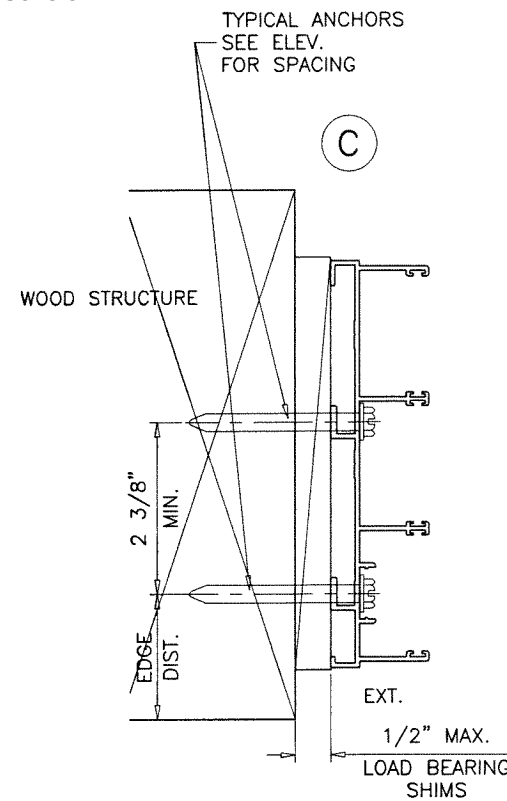
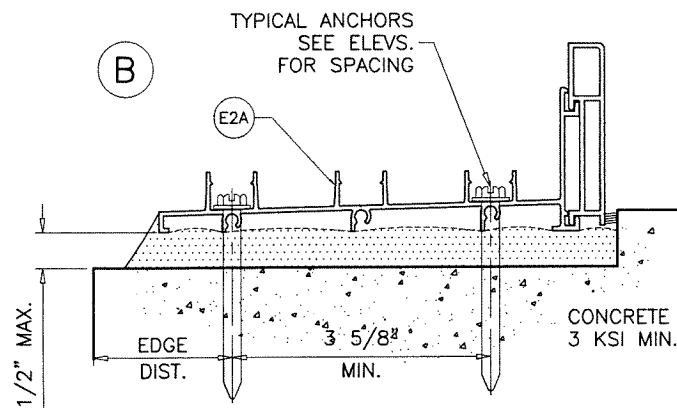
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sheet 17 of 23





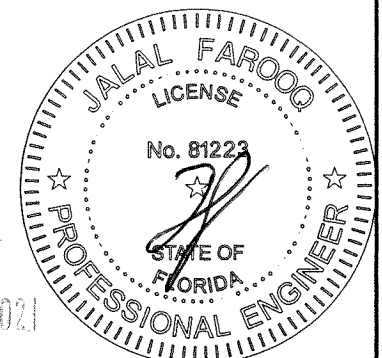
**PRODUCT REVISED**  
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NOA-No. 21-0728.02  
Expiration Date 07/20/2022  
By Ishag I. Chande  
Miami-Dade Product Control

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Miami-Dade Product Control



**3 TRACK FRAMES**  
ANCHOR LOCATIONS

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COMP-ANL W16-73ES

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ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

**E.S. WINDOWS, LLC**  
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no	date	description
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D	08.04.21	SILL RISER OPTIONS ADDED

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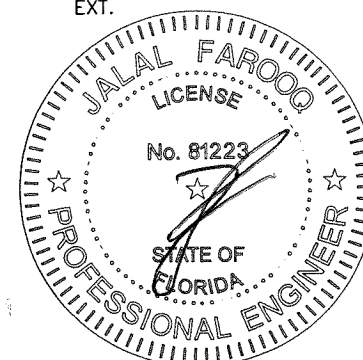
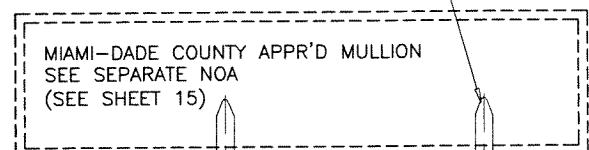
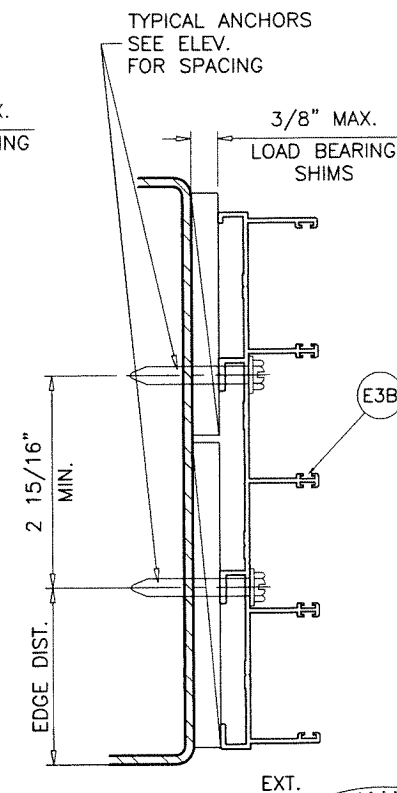
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drawing no. **W16-73**  
sheet 18 of 23



By Ishag I. Chande  
Miami-Dade Product Control

By Ishaq I. Chank  
Miami-Dade Product Control



AUG 16 2004

drawing no.  
W16-73  
sheet 19 of 23

**AL-FAROOQ CORPORATION**  
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FAX. (305) 638-5158

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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL400-001	1	FRAME HEAD (2 TRACK)	6063-T6	-
E1A	ES-EL400-201	AS REQD.	FRAME HEAD (3 TRACK)	6063-T6	-
E1B	ES-EL400-205	AS REQD.	FRAME HEAD (4 TRACK)	6063-T6	-
E2	ES-EL400-002	1	FRAME SILL (2 TRACK)	6063-T6	-
E2A	ES-EL400-202	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E2B	ES-EL400-206	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E3	ES-EL400-003	2	FRAME JAMB (2 TRACK)	6063-T6	-
E3A	ES-EL400-203	AS REQD.	FRAME JAMB (3 TRACK)	6063-T6	-
E3B	ES-EL400-207	AS REQD.	FRAME JAMB (4 TRACK)	6063-T6	-
E4	ES-EL400-004	1/ PANEL	TOP RAIL (INSUL. LAM. GLASS)	6063-T6	-
E5	ES-EL400-005	1/ PANEL	BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E6	ES-EL400-006	AS REQD.	JAMB STILE (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-EL400-007	AS REQD.	INTERLOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E8	ES-EL400-009	1/ PANEL	TOP RAIL (LAM. GLASS)	6063-T6	-
E9	ES-EL400-010	1/ PANEL	BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E10	ES-EL400-011	AS REQD.	JAMB STILE (LAM. GLASS)	6063-T6	-
E11	ES-EL400-012	AS REQD.	INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E12	ES-EL400-013	AS REQD.	ASTRAGAL STILE (LAM. GLASS)	6063-T6	-
E12A	ES-EL400-008	AS REQD.	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E13	ES-EL400-014	AS REQD.	JAMB COVER	6063-T5	-
E14	ES-EL400-015	AS REQD.	POCKET JAMB	6063-T6	-
E15	ES-EL400-016	AS REQD.	SILL TRACK	6063-T6	-
E16	ES-EL400-017	AS REQD.	HEAD COVER	6063-T5	-
E17A	ES-2020-008	AS REQD.	SILL RISER	6063-T6	-
E17B	ES-2020-007	AS REQD.	ALT. SILL RISER	6063-T6	-
E17C	ES-2020-041	AS REQD.	ALT. SILL RISER	6063-T6	-
E18	ES-EL400-020	AS REQD.	FIXED PANEL BOTTOM GUIDE	6063-T6	-
E19	ES-EL400-021	AS REQD.	INTERLOCK REINFORCEMENT	6005-T5	-
E26	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
M1	ES-EL400-G01	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M2	ES-EL400-G02	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M3	ES2020-G04	AS REQD.	INTERLOCK BUMPER	PVC	DUROMETER 60±5 SHORE D
M4	W33271NK	AS REQD.	PILE W'STRIPPING (INTERLOCK)	WOOL	-
M5	W33181NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M6	PS01-0014	AS REQD.	DOOR HANDLE	DIE CAST ALUM	TWO POINT HANDLE
M7	PS01-1015	AS REQD.	STRIKE FOR MORTISE LOCK	ST. STEEL	-
M8	PS01-1036	AS REQD.	MORTISE 2 POINT LOCK	ST. STEEL	-
M9	GT-R34/3-01-A	2/ PANEL	ROLLER ASSEMBLY	ZAMAK	-
M10	6844.1	AS REQD.	BUMPER	ALUM/NYLON	-
M11	ES-EL400-FPI SL	AS REQD.	FIX. PANEL CLIP	ST. STEEL	-
M12	#8 X 3/4"	AS REQD.	KEEPER FASTENERS	ST. STEEL	P.H. SMS
M13	#10 X 1-1/4"	AS REQD.	PANEL ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M14	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M15	#6 X 3/8"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	P.H. SMS
M16	#8 X 1/2"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	F.H. SMS
M18	#10 X 1/2"	AS REQD.	ROLLER FASTENERS	ST. STEEL	P.H. SMS
M19	#10 X 1"	AS REQD.	LOCK INSTALLATION FASTENERS	ST. STEEL	F.H. SMS
M20	#8 X 1/2"	AS REQD.	HANDLE INSTALLATION FASTENERS	ST. STEEL	F.H. SMS

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Expiration Date 07/20/2022

By Ishaq I. Chande  
Miami-Dade Product Control

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**LOCK:**

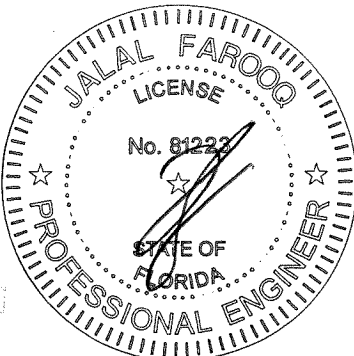
SURFACE MOUNT METALLIC HANDLE AT 44" FROM BOTTOM  
FASTENED TO LOCK STILE WITH  
(2) #8 X 1/2" FH SMS (M20)

SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK  
44" FROM BOTTOM  
FASTENED TO LOCK STILE WITH  
(2) #10 X 1" FH SMS

SURFACE MOUNT METALLIC KEEPER AT 44" FROM BOTTOM  
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH  
(3) #8 X 3/4" PH SMS (M12)

**SEALANT:**

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



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**af c**

**AL-FAROOQ CORPORATION**  
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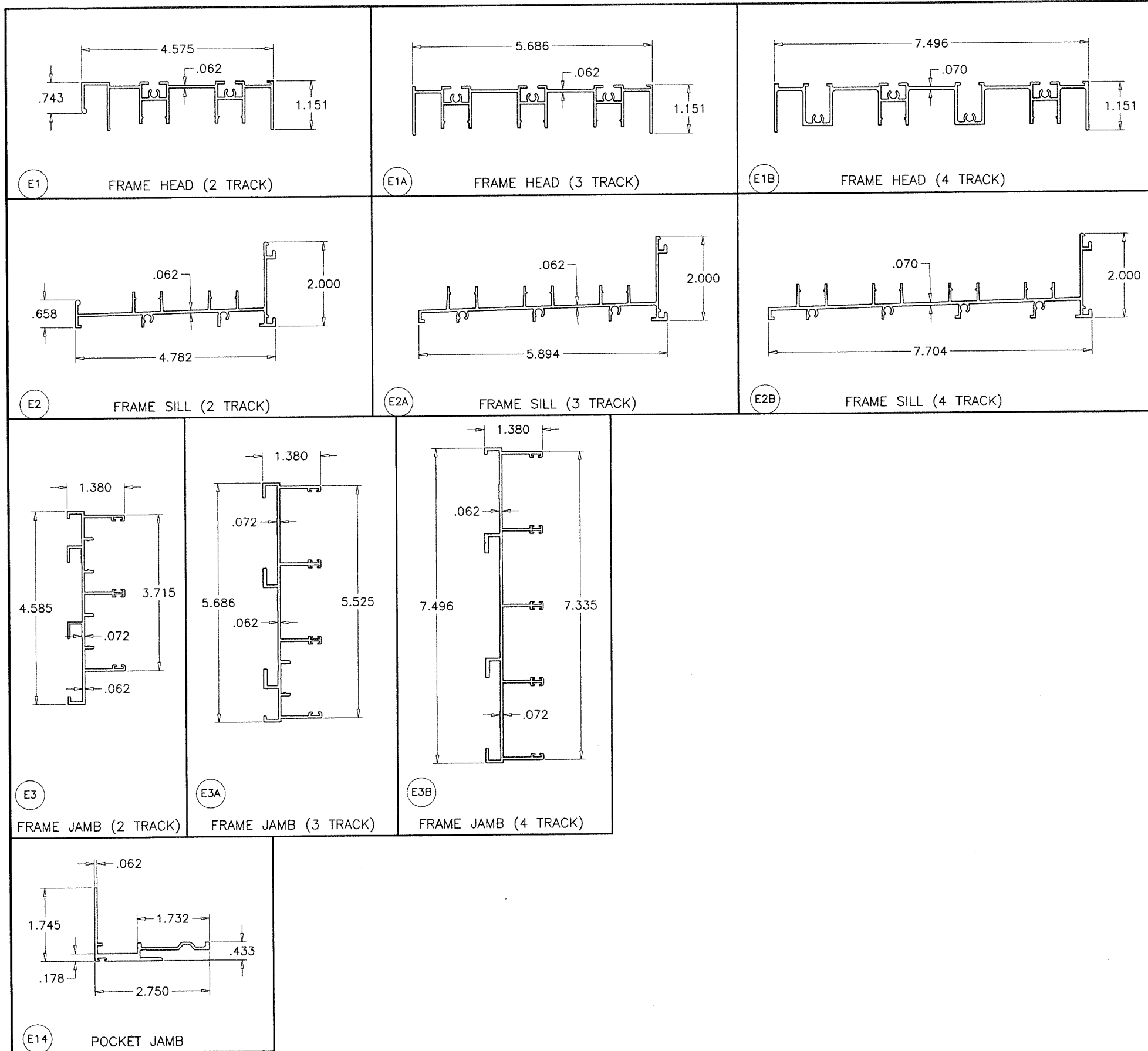
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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	C	06.23.21	SILL RISER REVISED		
	D	08.04.21	SILL RISER OPTIONS ADDED		

date: 11-28-16	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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drawing no.	W16-73
sheet	20 of 23



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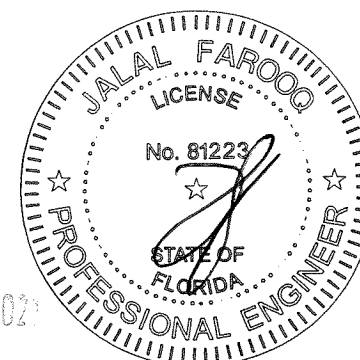
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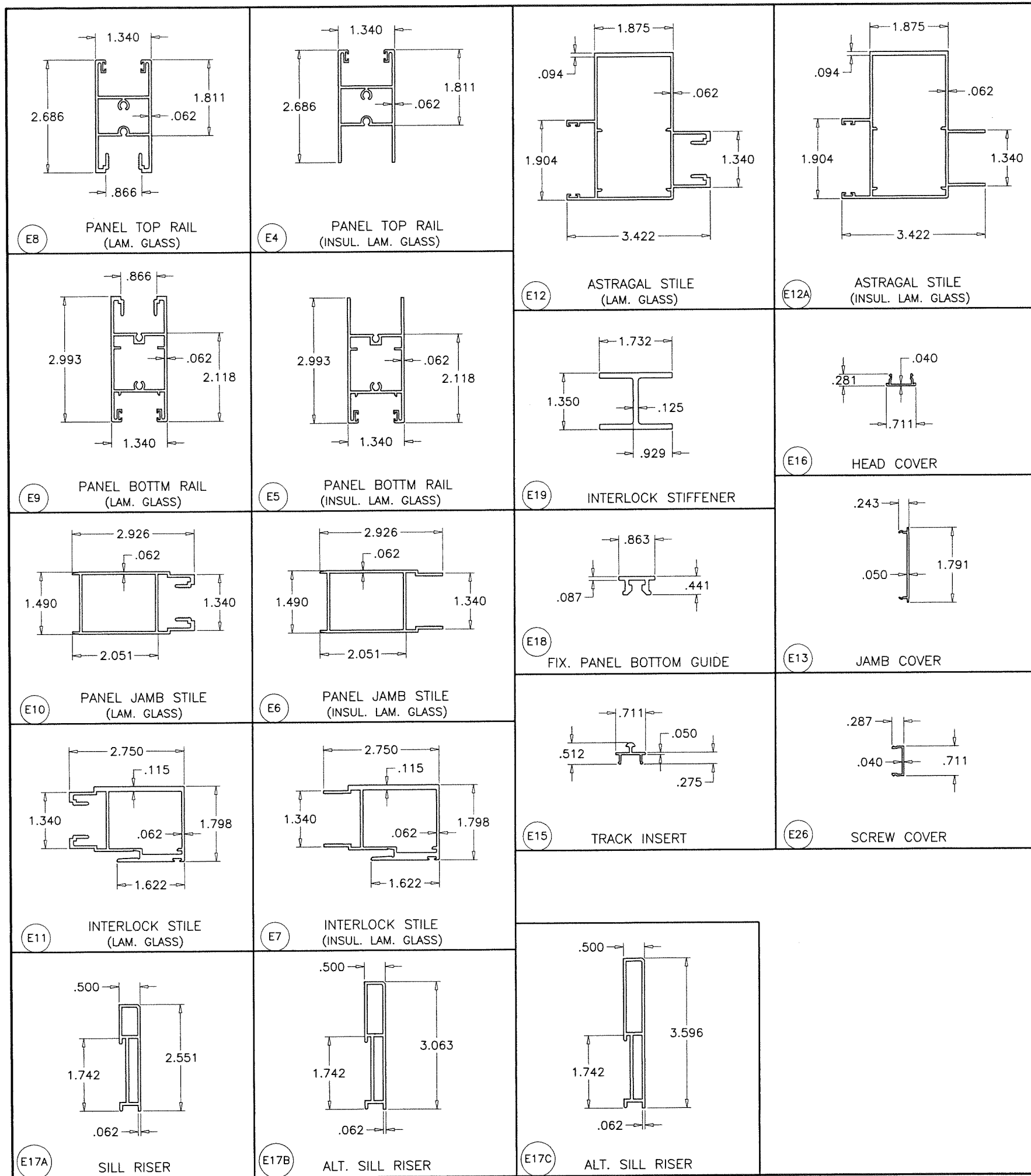
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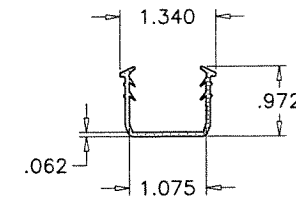
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chk. by:

drawing no.  
**W16-73**  
sheet 21 of 23



**M1** GLAZING GASKET  
LAM. GLASS



**M2** GLAZING GASKET  
INSUL. LAM. GLASS

MATERIAL = SILICONE  
HARDNESS = 70±3  
TENSILE STRENGTH = 1139 PSI  
ELONGATION AT BREAK = 235%  
TEAR STRENGTH = 107 Lb/IN  
BRITTLENESS TEMPERATURE = -40° F  
COMPRESSION SET = 12.5% (22h@212°F)

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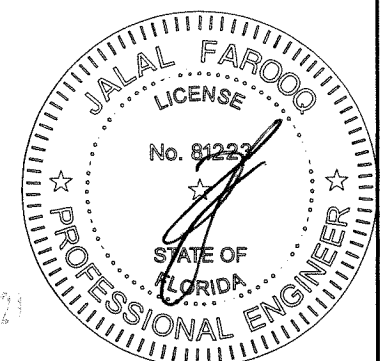
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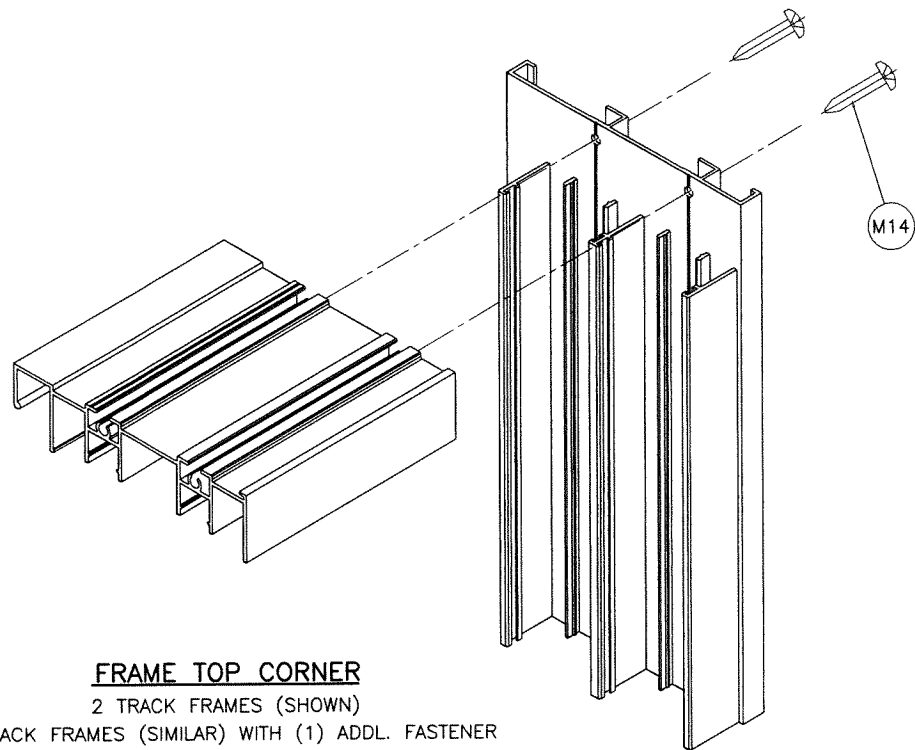
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sheet 22 of 23					

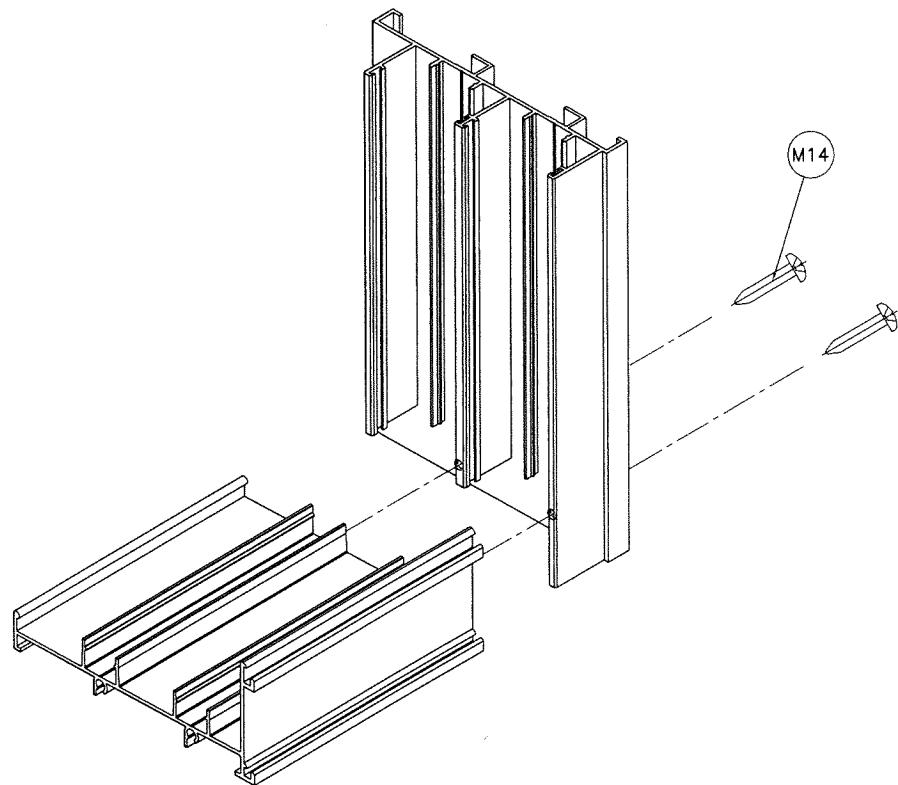




#### FRAME TOP CORNER

2 TRACK FRAMES (SHOWN)

3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER  
4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS



#### FRAME BOTTOM CORNER

2 TRACK FRAMES (SHOWN)

3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER  
4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS

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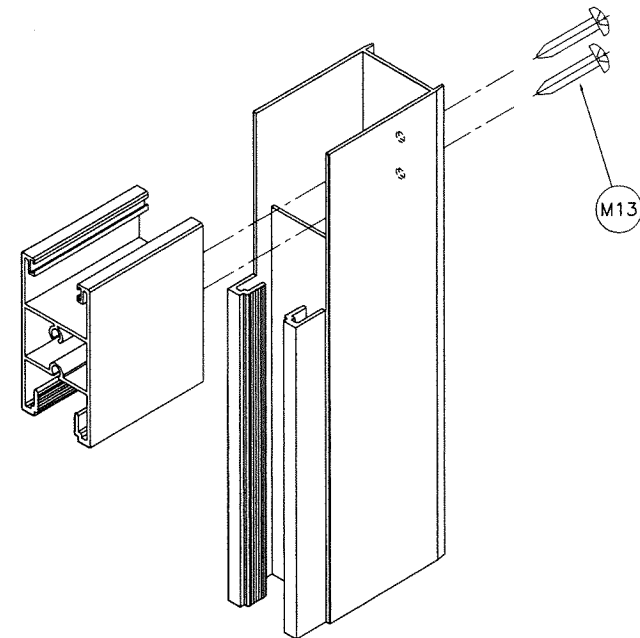
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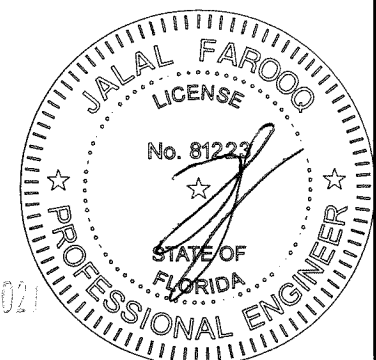
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#### PANEL TOP/BOTTOM CORNER

LAM. GLASS RAIL & STILE (SHOWN)

INSUL. LAM. GLASS RAIL & STILE (SIMILAR)



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