



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

NOTICE OF ACCEPTANCE (NOA)

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

E.S. Windows, LLC
3550 NW 49 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 “6100-3 Track” Aluminum Sliding Glass Doors -SMI

APPROVAL DOCUMENT: Drawing No. **18-40D Rev C**, titled “Series-6100-3 Track Alum Sliding Glass Door (SMI)”, sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 03/09/18 and last revised on JUL 17, 2023, 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: Small Missile Impact Resistant

Limitations: (6) Panels or less configured options (see sheet **3**), not to exceed tested frame/panel area and tested panel height.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Barranquilla, Columbia 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 **renews # 23-0724.16** 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. 24-0312.04
Expiration Date: August 22, 2029
Approval Date: May 17, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W18-40D Rev A**, titled "Series-6100-3 Track Alum Sliding Glass Door (SMI)", sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 03/09/2018 with revision A dated 11/27/2018, 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
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of OXXXXX aluminum SGD, prepared by Fenestration Testing Laboratories, Test Report No. **FTL-8721**, dated 03/08/17, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2017, prepared by Al-Farooq Corporation, dated 08/30/2017 and last revised on 01/19/2018, signed and sealed by Javad Ahmad, P.E. **(Submitted under NOA#16-1130.04)**
2. Glazing complies w/ ASTM E1300-09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **19-0305.02** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 05/09/19, expiring on 07/08/24.
2. NOA No. **17-0808.02** issued to **Kuraray America, Inc.** for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, dated January 12, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. **(Submitted under NOA#16-1130.04)**
2. Lab compliance as part of the above referenced test report.
3. Distribution agreement between ES Windows-Energia Solar, SA, Colombia and ES Windows, LLC, USA, dated 10/29/10, signed by MS Carla Torrente and Andres Chomaro, respectively. **(Submitted under NOA#15-0430.04)**

G. OTHER

1. This is a Spin-off NOA from NOA# **16-1130.04**.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0312.04
Expiration Date: August 22, 2029
Approval Date: May 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous NOAs

A. DRAWINGS

1. Drawing No. **W18-40 Rev B**, titled “Series-6100-3 Track Alum Sliding Glass Door (SMI)”, sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 03/09/2018 and last revised on Jun 23, 2021, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2020, prepared by Al-Farooq Corporation, dated 06/24/21, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies w/ ASTM E1300-09, -16.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.
2. NOA No. **17-0808.02** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 2023 (8th Edition)**, dated JUL 17, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
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.

G. OTHER

1. This NOA revises # **18-1004.06**, expiring **08/22/2024**.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0312.04
Expiration Date: August 22, 2029
Approval Date: May 17, 2024

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **W18-40D Rev C**, titled “Series-6100-3 Track Alum Sliding Glass Door (SMI)”, sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 03/09/2018 and last revised on JUL 17, 2023, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.
2. NOA No. **17-0808.02** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 2023 (8th Edition)**, dated JUL 17, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
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.

G. OTHER

1. This NOA **revises # 21-0628.18** and updates to FBC 2023, expiring **08/22/2024**.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0312.04
Expiration Date: August 22, 2029
Approval Date: May 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **W18-40D Rev C**, titled “Series-6100-3 Track Alum Sliding Glass Door (SMI)”, sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 03/09/2018 and last revised on JUL 17, 2023, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **23-0717.30** issued to Kuraray America, Inc. for the “**Sentry Glass clear & white ® Interlayer**”, expiring on 07/4/28.

F. STATEMENTS

1. Statement letter of conformance to FBC 2023 (8th Edition), prepared by Al Farooq Corporation, dated 03/07/24, signed and sealed by Jalal Farooq, P.E.
2. Statement letter of conformance, complying with **FBC 2023 (8th Edition)**, dated JUL 17, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
3. 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).

G. OTHER

1. This NOA **renews # 23-0724.16** and updates to FBC 2023, expiring **08/22/2029**.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0312.04
Expiration Date: August 22, 2029
Approval Date: May 17, 2024

SERIES-6100-3 TRACK ALUMINUM SLIDING GLASS DOOR

SEE SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REQUIRED REINFORCING.

USING CHART ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

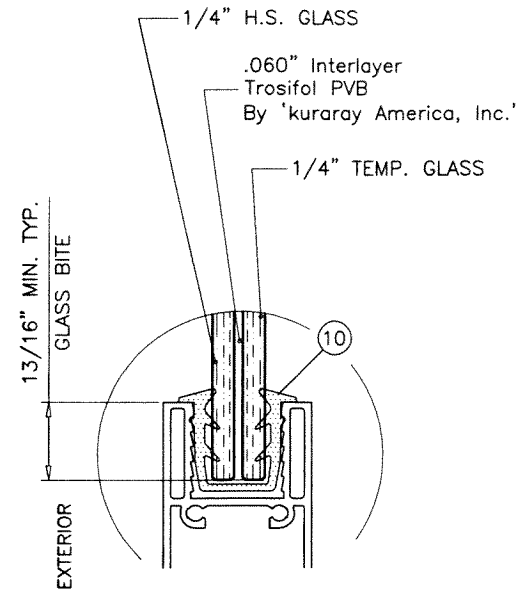
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

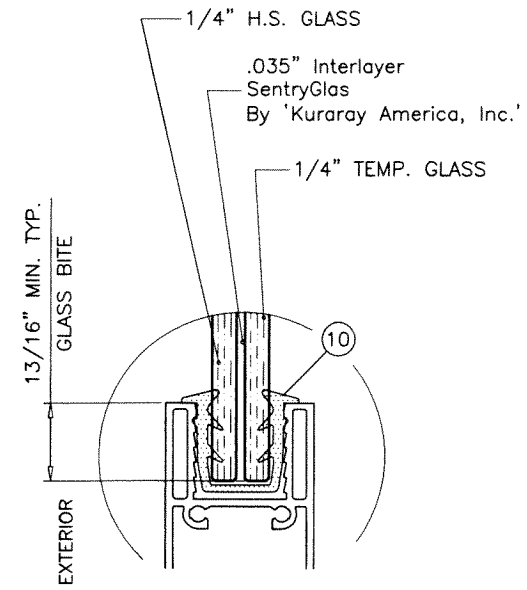
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

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



GLASS TYPE 'A'



GLASS TYPE 'A1'

GLAZING OPTIONS

LAMINATED GLASS
DRY GLAZED

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-0312.04

Expiration Date 08/22/2029

By Ishag I. Chande
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0724.16

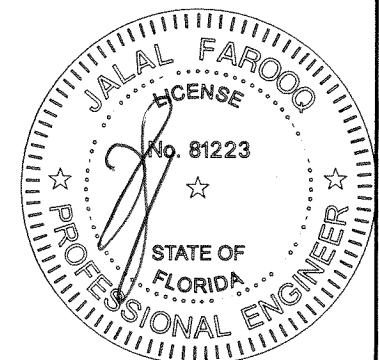
Expiration Date 08/22/2024

By Ishag I. Chande
Miami-Dade Product Control

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

JUL 17 2023



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

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

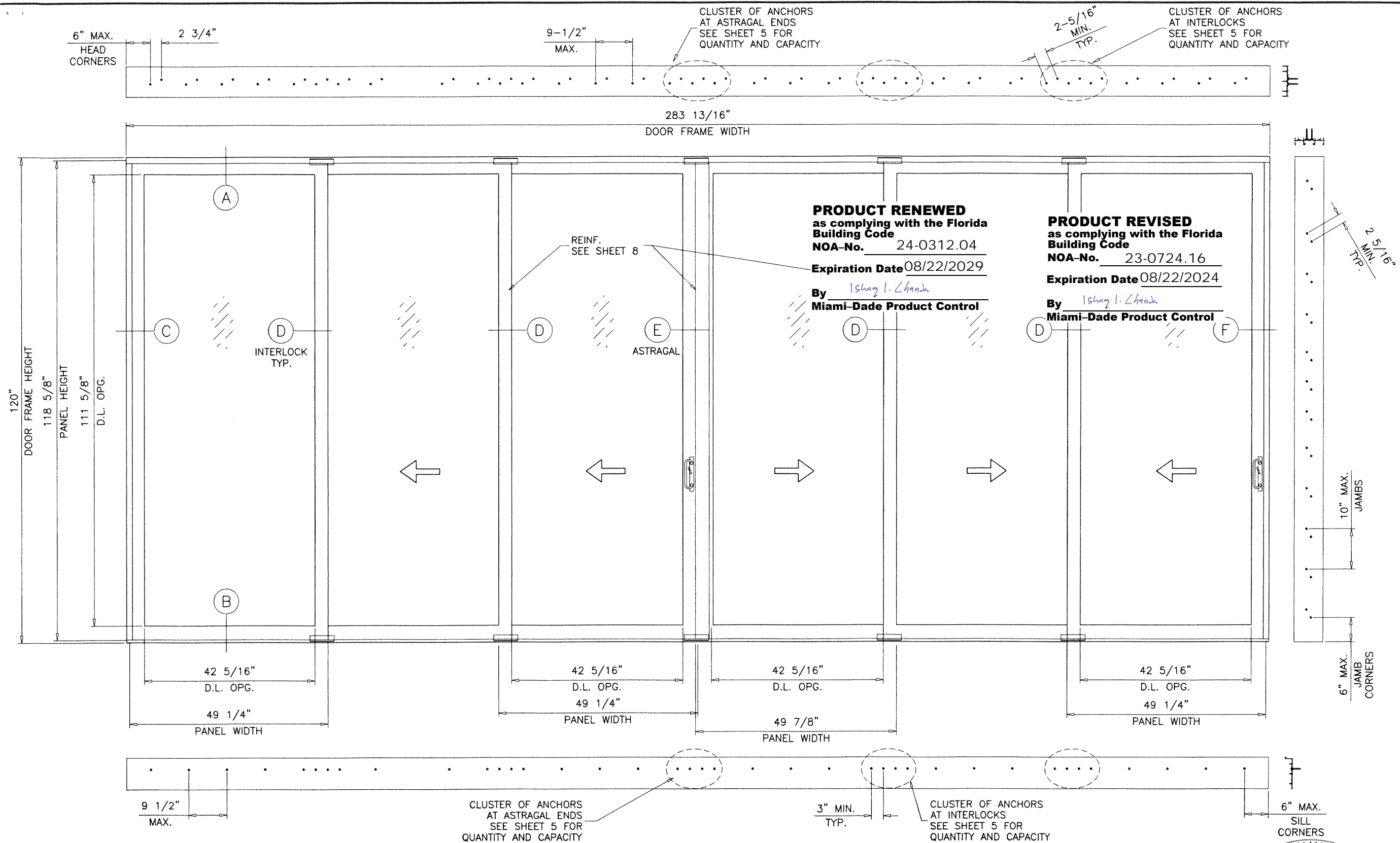
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no	description
A	11.27.18 REV PER RER COMMENTS
B	06.25.21 UPDATED TO 2020 FBC
C	07.14.23 UPDATED TO 2023 FBC

date:	03-09-18
scale:	-
dr. by:	TARIO
chk. by:	

drawing no.	18-40D
sheet	1 of 12

af c

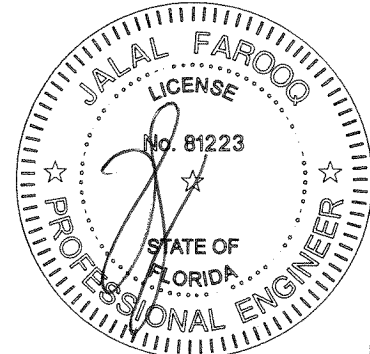
COMP-ANL\18-40D-ES



TYPICAL ELEVATION
THREE (3) TRACK DOORS
 OXXXXX

DAYLITE OPENINGS:
 D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
 D.L.O. WIDTH = PANEL WIDTH - 6.937"
 PANEL HEIGHT = FRAME HEIGHT - 1.375"

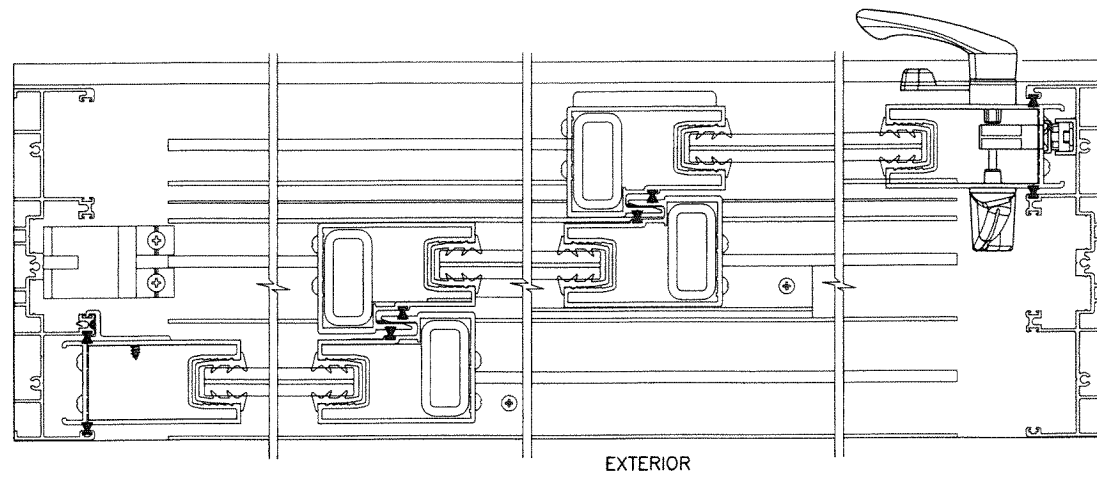
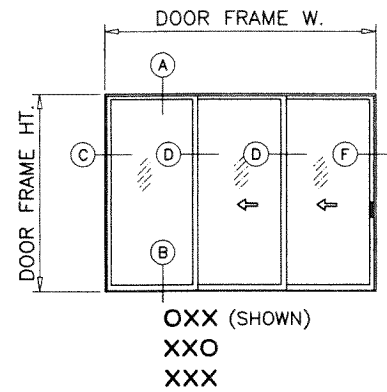
JUL 17 2023



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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\18-40D-ES

SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		description	
no	date	by	
A	11.27.18	NO CHANGE THIS SHEET	
B	06.25.21	EDITORIAL CHANGES	
C	07.14.23	NO CHANGE THIS SHEET	
date:	03-09-18	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.		18-40D	
sheet		2 of 12	

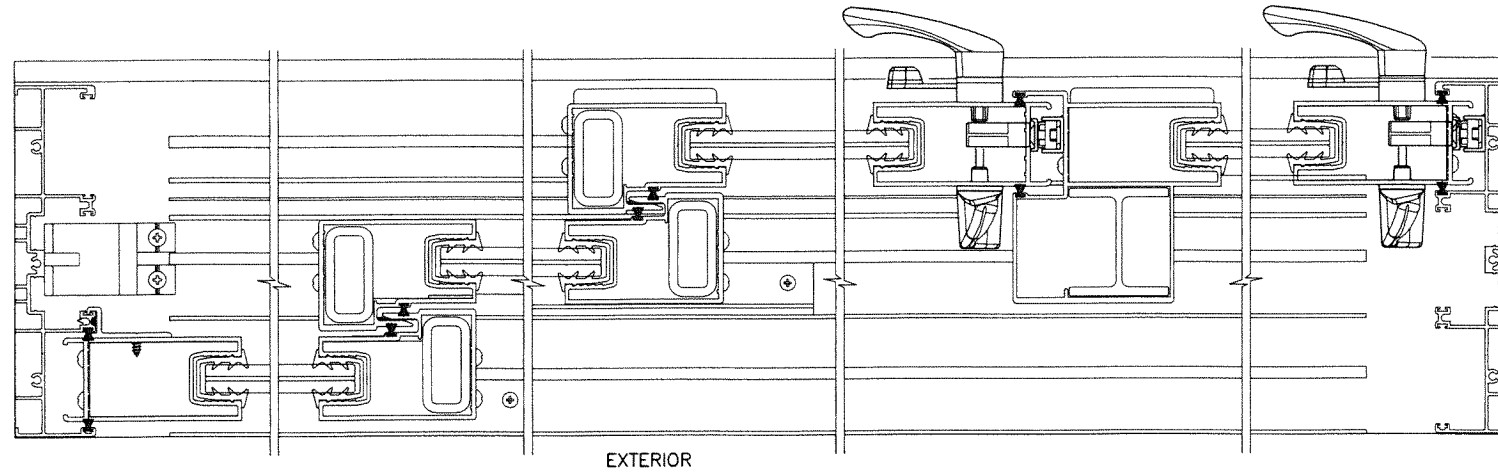
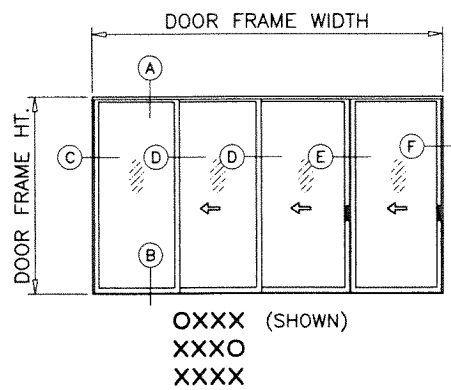


NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEET 4 AND ANCHOR INSTALLATION IN SHEET 5.

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-0312.04

Expiration Date 08/22/2029

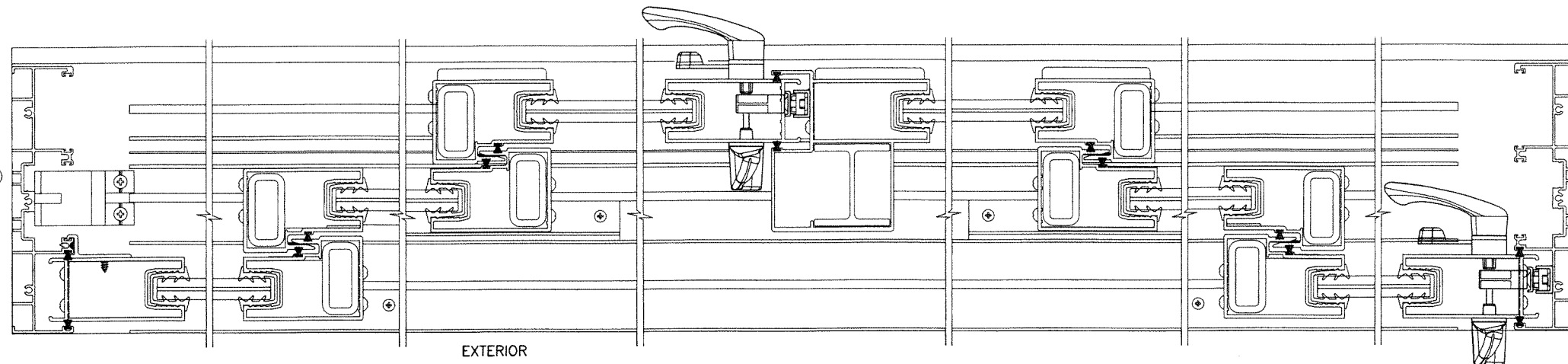
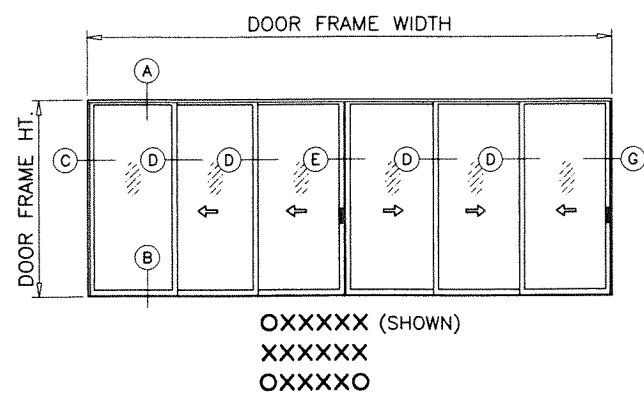
By Ishaq I. Chande
Miami-Dade Product Control



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0724.16

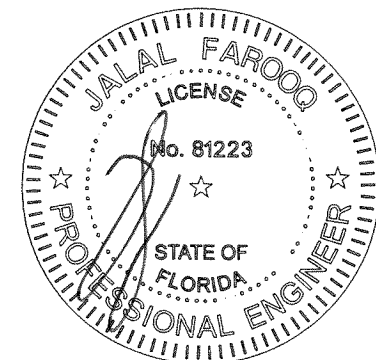
Expiration Date 08/22/2024

By Ishaq I. Chande
Miami-Dade Product Control



APPROVED CONFIGURATIONS

JUL 17 2023



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\18-40D-ES

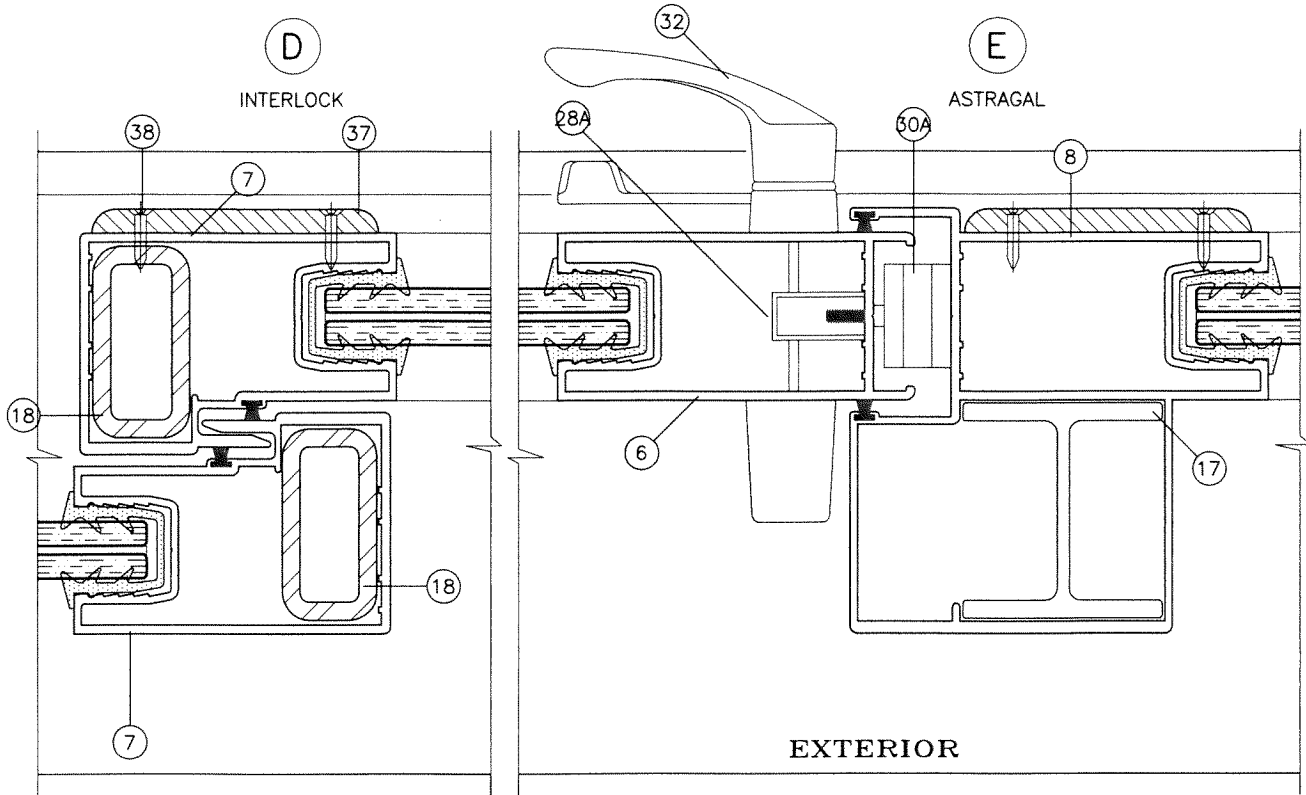
SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	by	description
		A	11.27.18		NO CHANGE THIS SHEET
		B	06.25.21		EDITORIAL CHANGES
		C	07.14.23		NO CHANGE THIS SHEET
date:	03-09-18	scale:	-	dr. by:	TARIQ
chk. by:		drawing no.	18-40D	sheet	3 of 12

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

SEE CHART ON SHEET 5 FOR HEAD/SILL ANCHOR CAPACITY.

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



STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

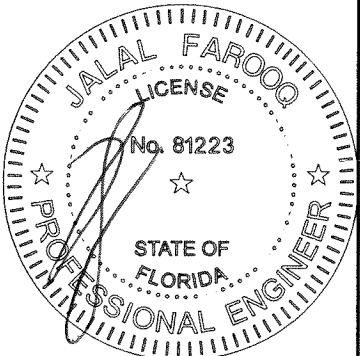
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-0312.04
Expiration Date 08/22/2029
By Ishaq I. Chank
Miami-Dade Product Control


PRODUCT REVISED
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NOA-No. 23-0724.16
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By Ishaq I. Chank
Miami-Dade Product Control

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

DESIGN LOAD CAPACITY - PSF REINF. AT INTERLOCK & ASTRAGAL ALL CONFIGURATIONS SHOWN ON SHEET 3					
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'A1'	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0
50		81.6	105.6	85.0	110.0
53		77.0	99.6	85.0	110.0
56		72.9	94.3	85.0	110.0
60		68.0	88.0	85.0	110.0
36	96	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0
50		81.6	105.6	85.0	105.6
53		77.0	99.6	85.0	99.6
56		72.9	94.3	85.0	94.3
60		68.0	88.0	85.0	88.0
36	102	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0
50		81.6	105.6	85.0	105.6
53		77.0	99.6	85.0	99.6
56		72.9	94.3	85.0	94.3
36	108	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0
50		81.6	105.6	85.0	105.6
53		77.0	99.6	85.0	99.6
36	114	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0
50		81.6	105.6	85.0	105.6
36	120	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0

JUL 17 2023



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

SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.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 11.27.18 REV PER RER COMMENTS
B 06.25.21 EDITORIAL CHANGES
C 07.14.23 NO CHANGE THIS SHEET

date: 03-09-18
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-40D
sheet 4 of 12

COMP-ANL\18-40D-ES

HEAD ANCHOR LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	ANCHOR TYPE 'C'
		6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		INT. (-)	INT. (-)	INT. (-)	INT. (-)
30	82	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		110.0	110.0	110.0	110.0
42		110.0	110.0	110.0	110.0
44		110.0	110.0	110.0	110.0
48		110.0	110.0	110.0	110.0
50		110.0	110.0	110.0	110.0
53		110.0	110.0	110.0	110.0
56	96	110.0	110.0	110.0	110.0
60		110.0	110.0	110.0	110.0
30		110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		110.0	110.0	110.0	110.0
42		110.0	110.0	110.0	110.0
44		110.0	110.0	110.0	110.0
48		110.0	110.0	110.0	110.0
50		110.0	110.0	110.0	110.0
53		110.0	110.0	110.0	110.0
56		94.3	94.3	94.3	94.3
60		88.0	88.0	88.0	88.0
30	102	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		110.0	110.0	110.0	110.0
42		110.0	110.0	110.0	110.0
44		110.0	110.0	110.0	110.0
48		110.0	110.0	110.0	110.0
50		107.3	110.0	110.0	110.0
53		99.6	99.6	99.6	99.6
56		94.3	94.3	94.3	94.3
30	108	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		110.0	110.0	110.0	110.0
42		110.0	110.0	110.0	110.0
44		109.1	110.0	110.0	110.0
48		102.4	110.0	110.0	110.0
50		99.5	105.6	105.6	105.6
53		95.6	99.6	99.6	99.6
30	114	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		109.8	110.0	110.0	110.0
42		105.7	110.0	110.0	110.0
44		102.0	110.0	110.0	110.0
48		95.6	110.0	110.0	110.0
50		92.8	108.3	110.0	110.0
30	120	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		103.2	110.0	110.0	110.0
42		99.3	110.0	110.0	110.0
44		95.8	110.0	110.0	110.0
48		89.6	104.6	110.0	110.0

EXT.(+) Dp = 85 PSF MAX.

SILL ANCHOR LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'B'	
		4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS
		INT. (-)	INT. (-)
30	82	110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		110.0	110.0
53		110.0	110.0
56	96	110.0	110.0
60		110.0	110.0
30		110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		110.0	110.0
53		110.0	110.0
56		94.3	94.3
60		88.0	88.0
30	102	110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		110.0	110.0
53		99.6	99.6
56		94.3	94.3
30	108	110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
53		99.6	99.6
30	114	110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		110.0	110.0
44		110.0	110.0
48		104.0	110.0
50		101.0	110.0
30	120	110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		108.1	110.0
44		104.2	110.0
48		97.5	110.0

NOTE:
SEE SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN
DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM GLASS OR HEAD, SILL, JAMB ANCHOR CHARTS WILL
APPLY TO ENTIRE SYSTEM.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

— AT HEAD —
TYPE 'A'— 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
THRU 1BY BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE
TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED
TYPE 'C'— #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

— AT JAMBS —
TYPE 'A'— 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
THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS
TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS
TYPE 'C'— #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE = 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.

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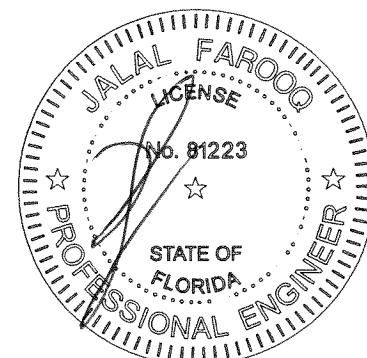
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By Ishaq I. Chande
Miami-Dade Product Control

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Expiration Date 08/22/2024

By Ishaq I. Chande
Miami-Dade Product Control

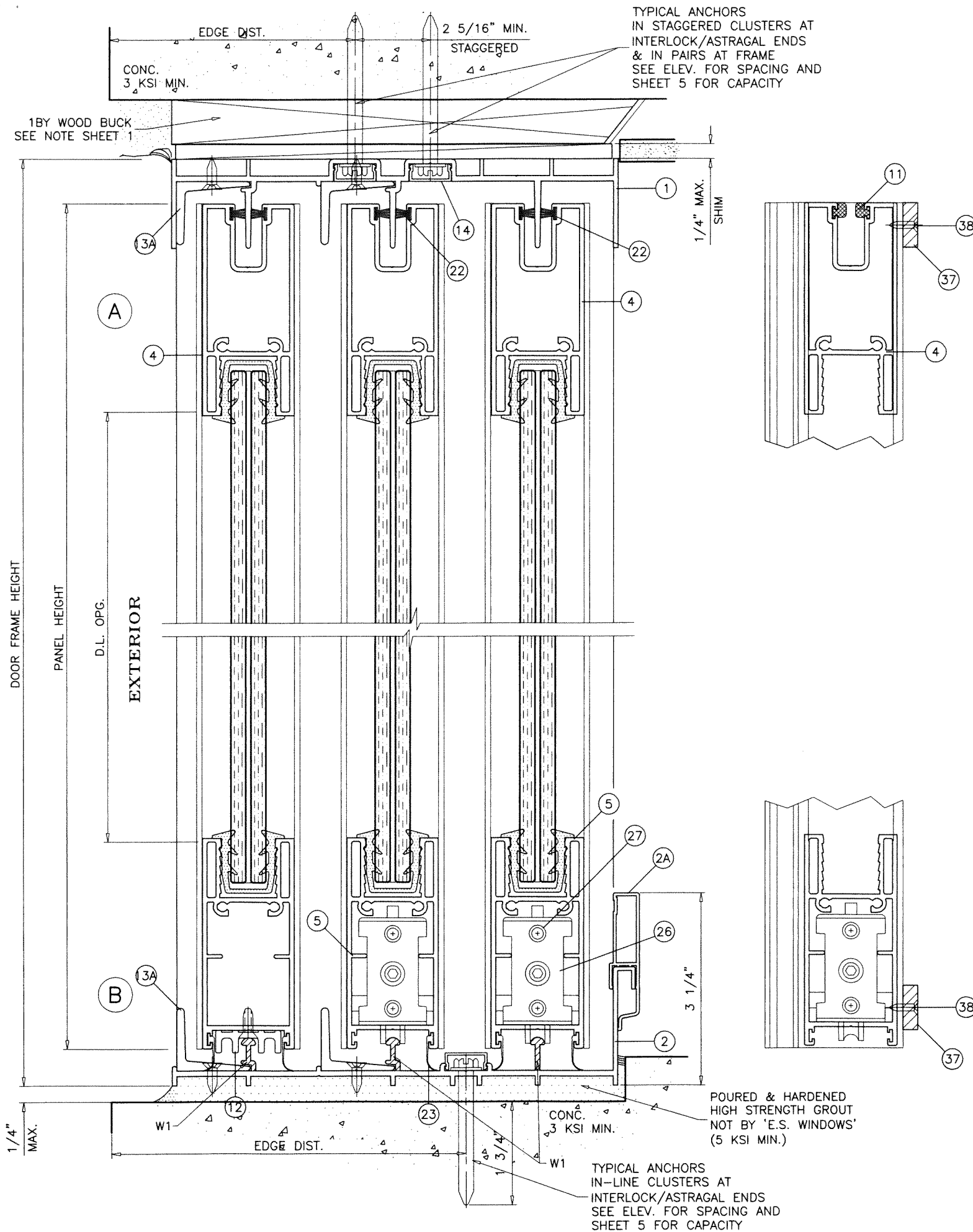


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\18-40D-ES

SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.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	11.27.18			NO CHANGE THIS SHEET	
B	06.25.21			EDITORIAL CHANGES	
C	07.14.23			NO CHANGE THIS SHEET	
date: 03-09-18		scale: -		dr. by: TARIQ	
drawing no.		sheet 5 of 12		chk. by:	

JUL 17 2023



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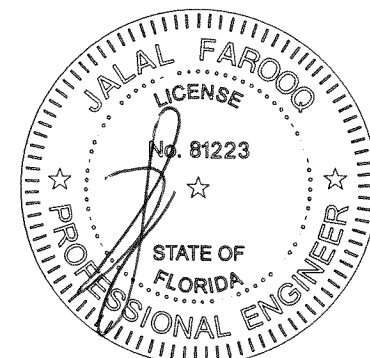
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SEALANT:

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

WEEPHOLES:

W1 = 2-5/8" LONG WEEP NOTCH AT EACH END

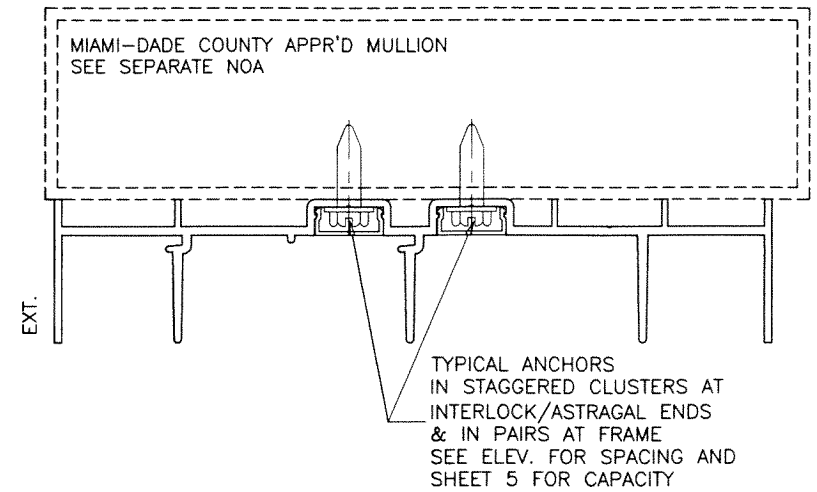
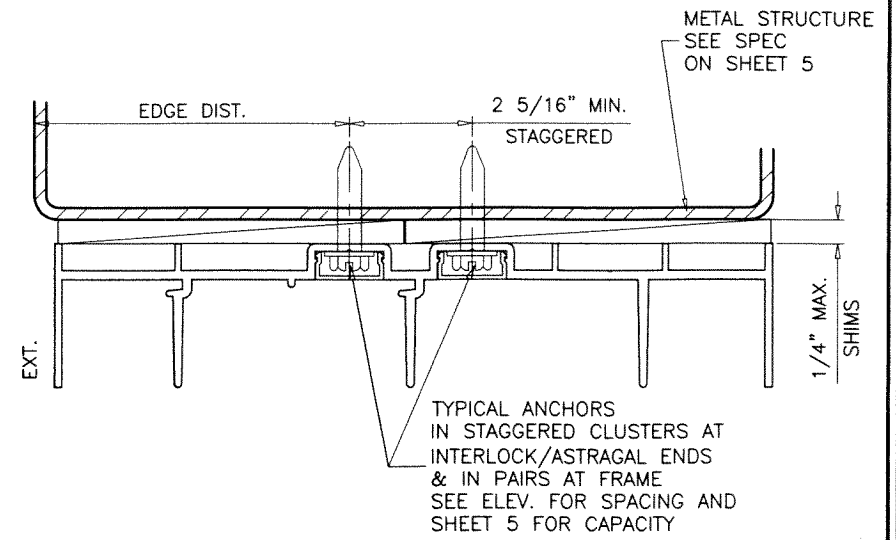
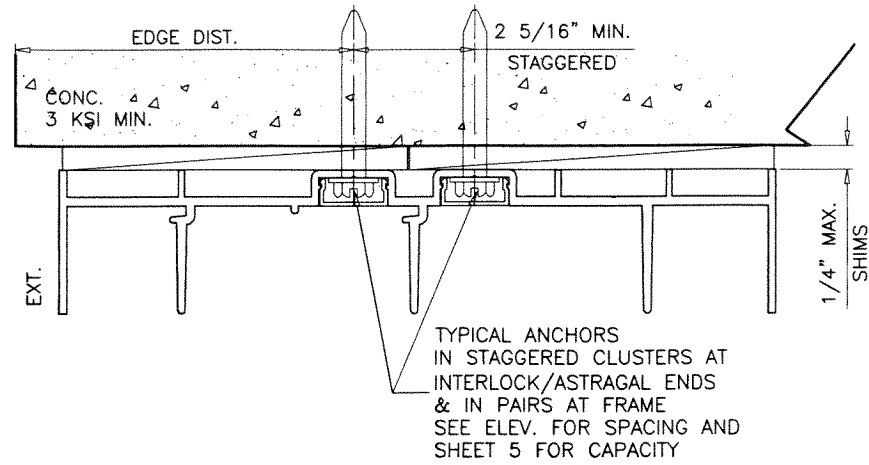
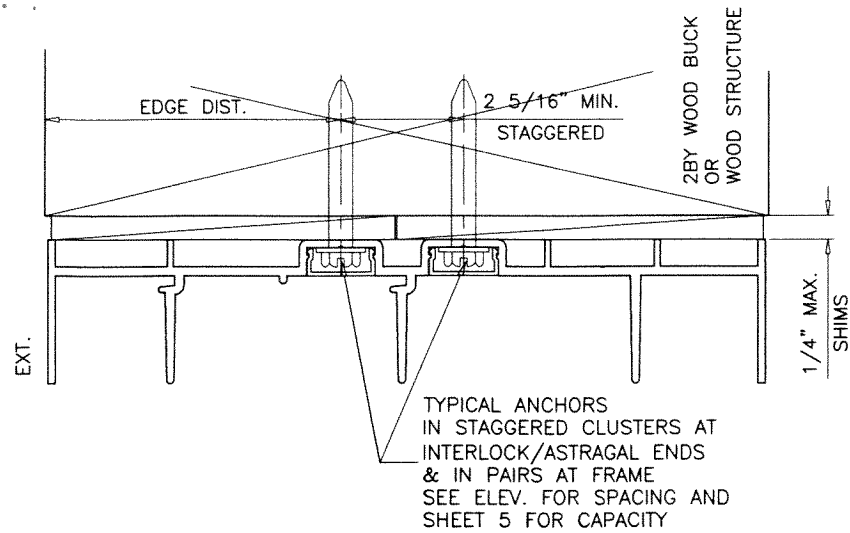


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drawing no. 18-40D		sheet 6 of 12		chk. by:	

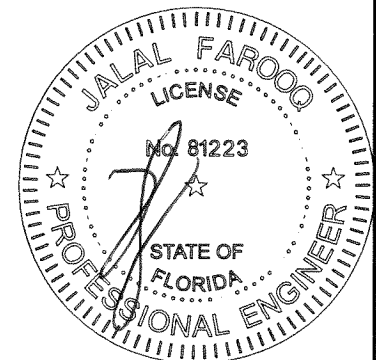


1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WINDOWS' MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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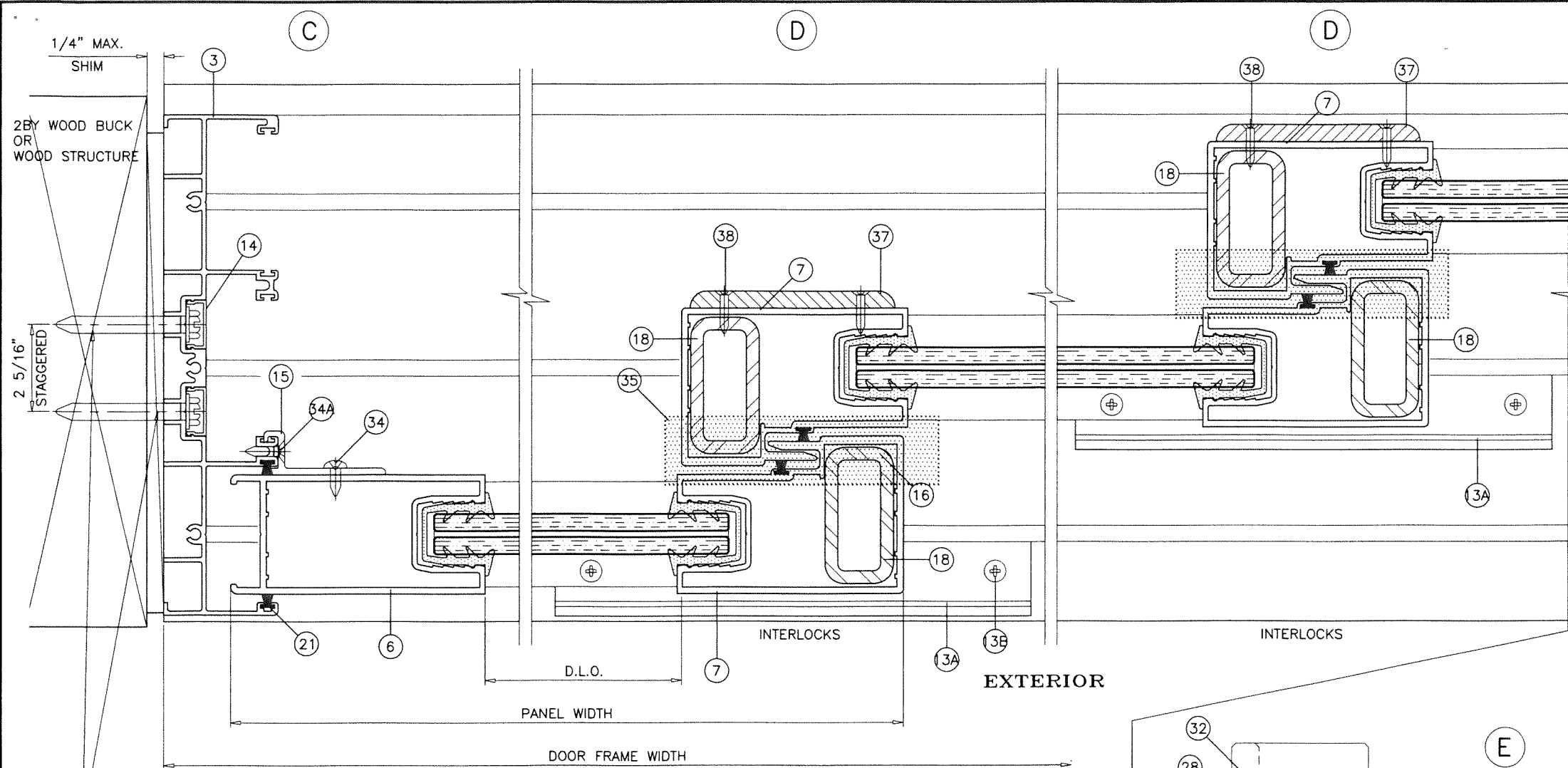
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(C.A.N. 3538)

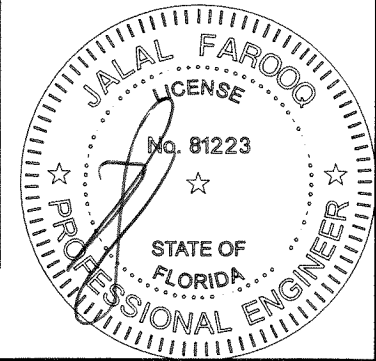
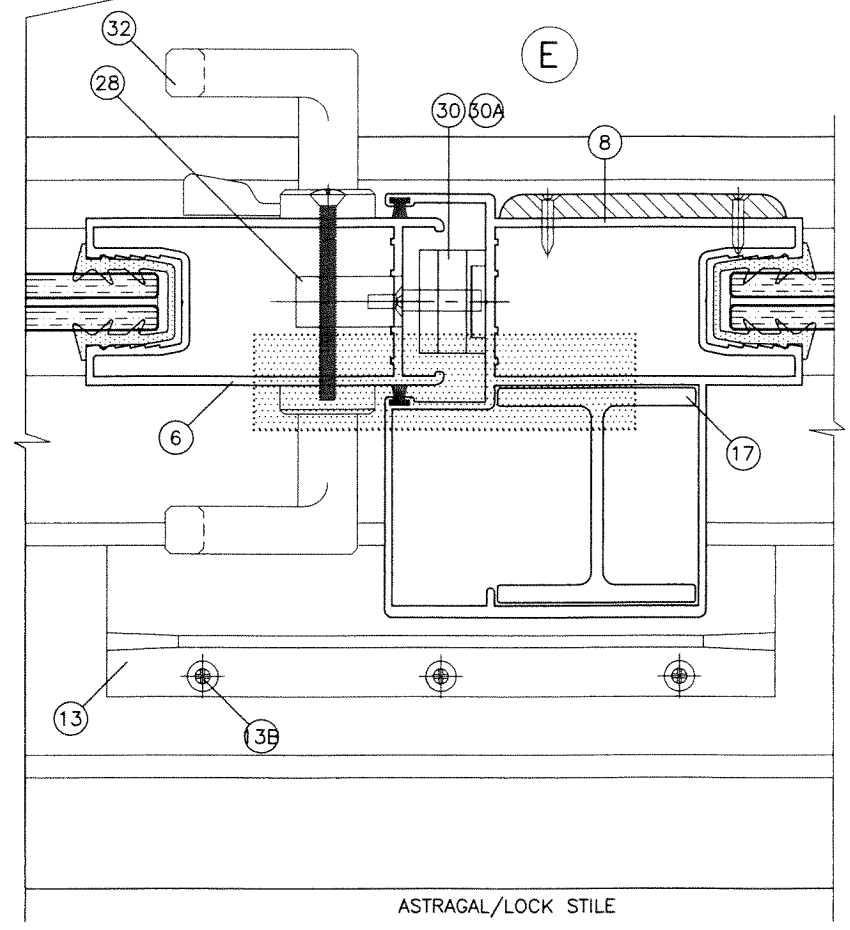
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				chk. by:	
drawing no.		18-40D		sheet 7 of 12	



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revisions:	no	date	by	description
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	B	06.25.21	EDITORIAL	CHANGES
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chk. by:

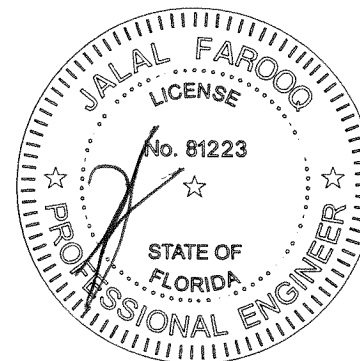
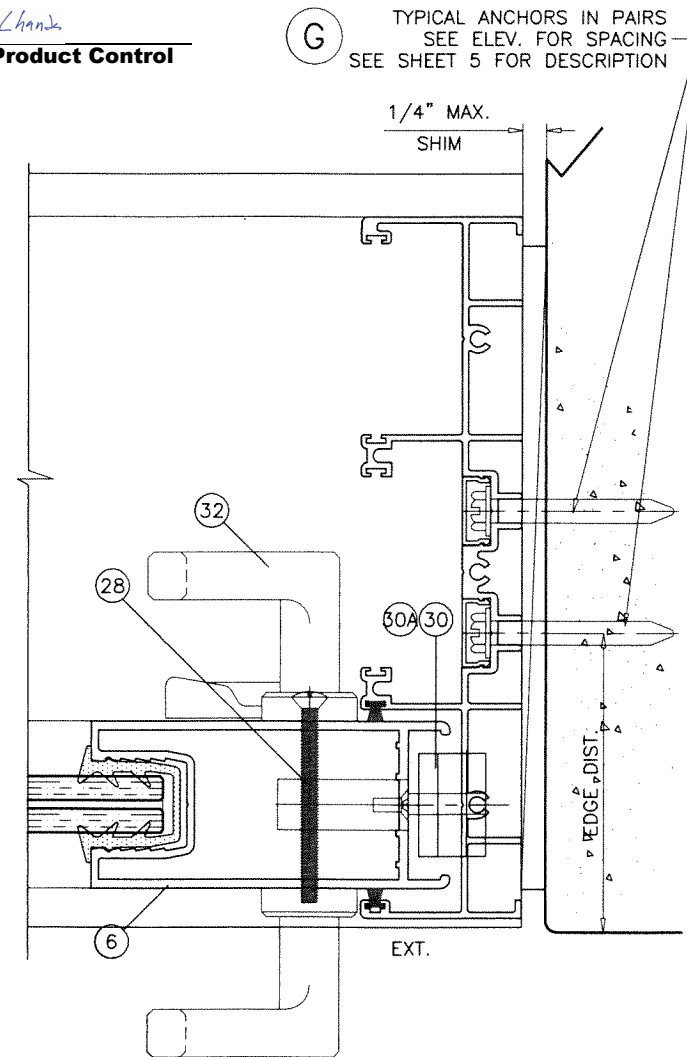
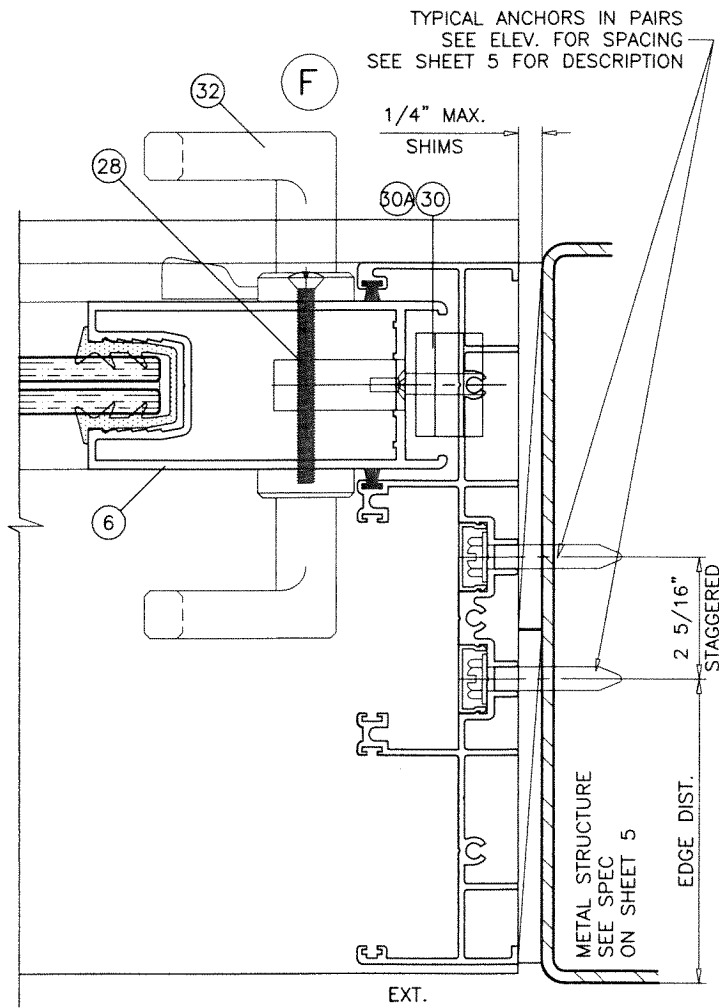
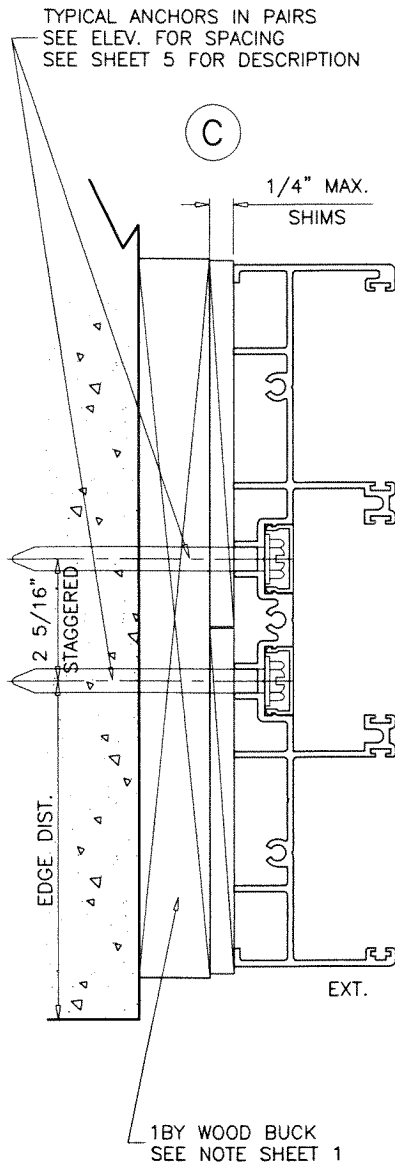
drawing no.

18-40D

sheet 8 of 12

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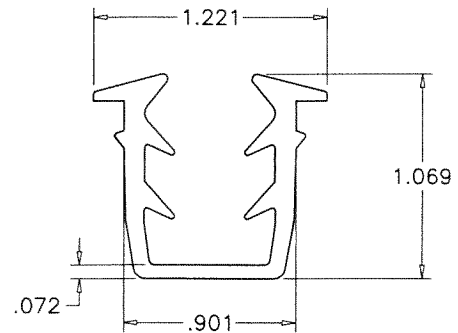
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drawing no.
18-40D

sheet 9 of 12

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-6000-408	1	FRAME HEAD	6005-T5	-
2	ES-6000-402	1	FRAME SILL	6005-T5	-
2A	ES-6028	1	SILL RISER	6063-T6	-
3	ES-6000-403	2	FRAME JAMB	6063-T6	-
4	ES-6000-040	2/ PANEL	TOP RAIL	6063-T6	-
5	ES-6000-041	2/ PANEL	BOTTOM RAIL	6063-T6	-
6	ES-6000-042	AS REQD.	LOCK STILE	6063-T6	-
7	ES-6000-043	AS REQD.	INTERLOCK	6063-T6	-
8	ES-6000-044	AS REQD.	FEMALE ASTRAGAL	6063-T6	-
10	27-564	4/ PANEL	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
11	ES-6016	4/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	LOCATED AT PANEL ENDS
12	ES-6015	2/ PANEL	FIXED PANEL BOTTOM CLIP , 7" LONG MIN.	6063-T6	SECURE W/ (2) #8 X 3/4" FH SMS
13	ES-6010	2/ PANEL	RETAINER CLIP, 7" LONG AT SILL, 8" LONG HEAD	6005-T5	AT ASTRAGAL STILE HEAD & SILL ENDS
13A	ES-6000-405	2/ PANEL	RETAINER CLIP, 7" LONG AT SILL, 8" LONG AT HEAD	6005-T5	AT INTERLOCK STILES HEAD & SILL ENDS
13B	#10 X 3/4"	3/ CLIP	RETAINER CLIP FASTENERS	-	FH SELF DRILLING SCREWS
14	ES-6011	2/ JAMB	JAMB SCREW COVER	6063-T5	OPTIONAL
17	ES-6013	AS REQD.	ASTRAGAL STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
18	1" X 2" X 3/16"	AS REQD.	STEEL TUBE REINFORCING (LENGTH = PANEL HT. - 2-3/8")	A36 STEEL	TO BE PAINTED
21	W222521K	AS REQD.	STILE & JAMB W'STRIPPING	-	ULTRAFAB
22	W223221K	AS REQD.	TOP RAIL PILE W'STRIPPING	-	ULTRAFAB
23	ES-6027	AS REQD.	BOTTOM RAIL W'STRIPPING	EPDM	DUROMETER 75±4 SHORE A
24	#10 X 1-1/2" PH SMS	8/ PANEL	PANEL ASSY SCREWS	ST. STEEL	-
25	#10 X 1" PH SMS	2/ CORNER	FRAME ASSY SCREWS	ST. STEEL	-
26	GTT-354/460-A	2/ MOV. PANEL	TANDEM ACETAL WHEELS IN METALLIC HOUSING	-	PABOSE
27	1/4-20 X 1-3/4" PH MS	2/ ROLLER	ROLLER INST. SCREWS	ST. STEEL	-
28	191014	1/ MOV. PANEL	MULTI POINT MORTISE LOCK, AT 40" FROM BOTTOM	ST. STEEL	INTERLOCK (ASSA ABLOY)
29	#10-24 X 3/8" PH MS	2/ LOCK	LOCK INSTALLATION SCREW	ST. STEEL	-
30	191040	1/ LOCK	LOCK KEEPER (MULTI POINT LOCK), AT 48-1/2" FROM BOTTOM	ST. STEEL	INTERLOCK (ASSA ABLOY)
31	#10 X 5/8" PH SMS B	2/ LOCK	LOCK KEEPER MOUNT. SCREW (STD. LOCK)	ST. STEEL	-
31A	#8 X 3/4" FH SMS	4/ LOCK	LOCK KEEPER MOUNT. SCREW (MULTI POINT LOCK)	ST. STEEL	-
32	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	-	(3) #6-32 X 1/2" FH MS, ST. STEEL
35	-	AS REQD.	1"x4" LONG SELF ADHESIVE PILE PAD	WOOLPILE	AT HEAD AND SILL
37	ES-6019	AS REQD.	RESTRAINING PLATE	NYLON	AT TOP & BOTT. INTERLOCKS & ASTRAGAL
38	#8 X 3/4" FH SMS	2/ PLATE	RESTRAINING PLATE FASTENER	-	-
39	ES-4013	AS REQD.	GLAZING WEDGE	-	-



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

10 GLAZING GASKET
SCALE 1:1

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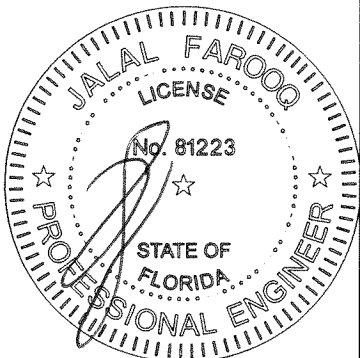
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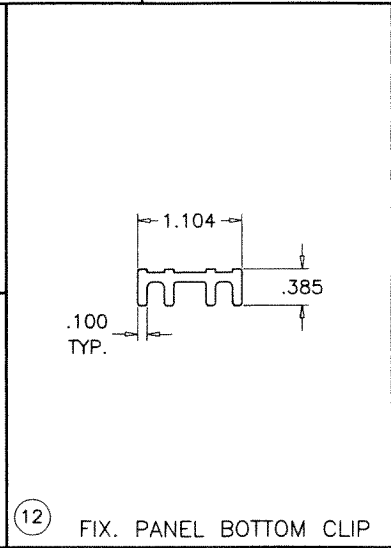
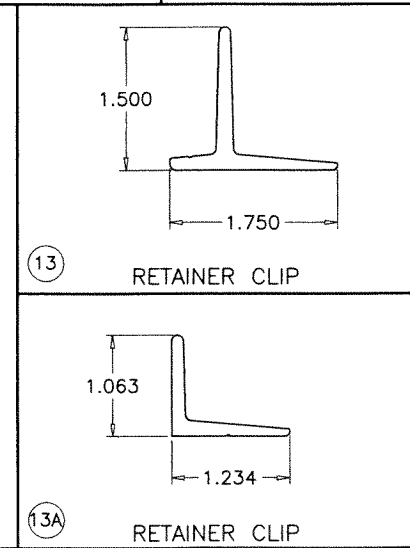
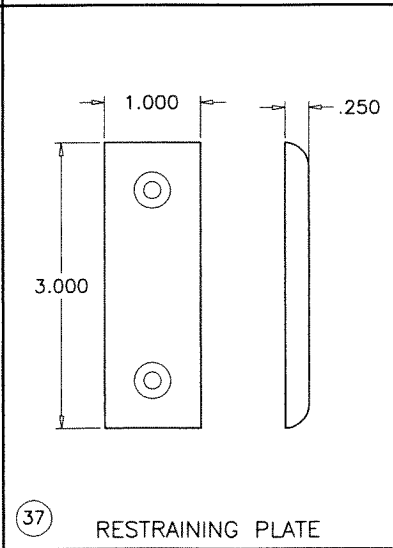
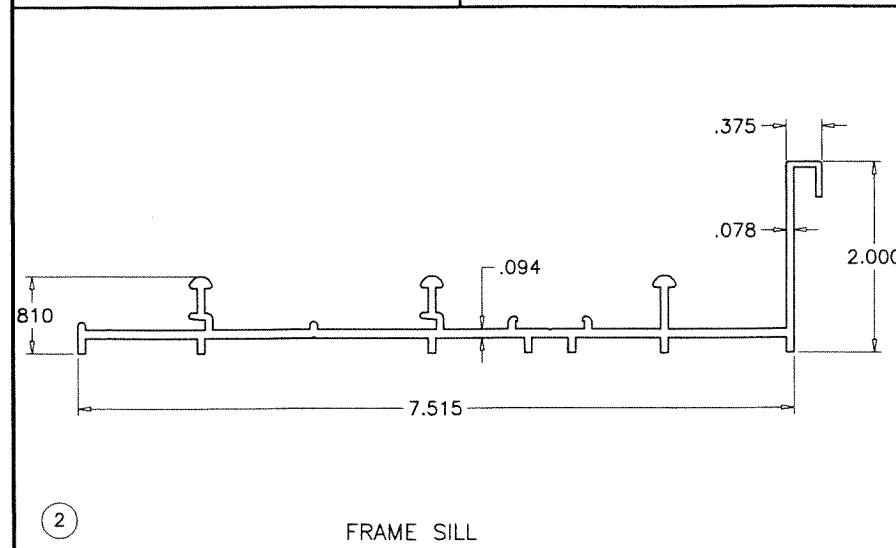
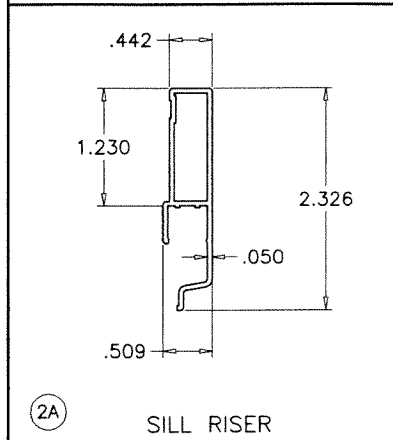
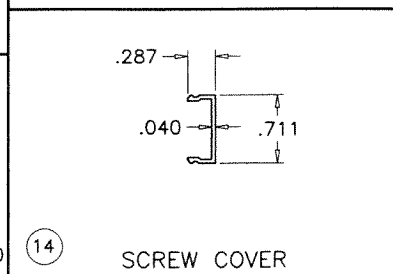
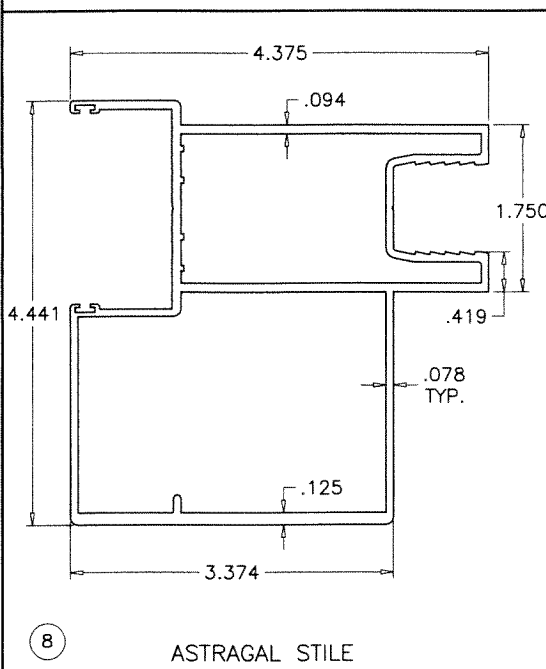
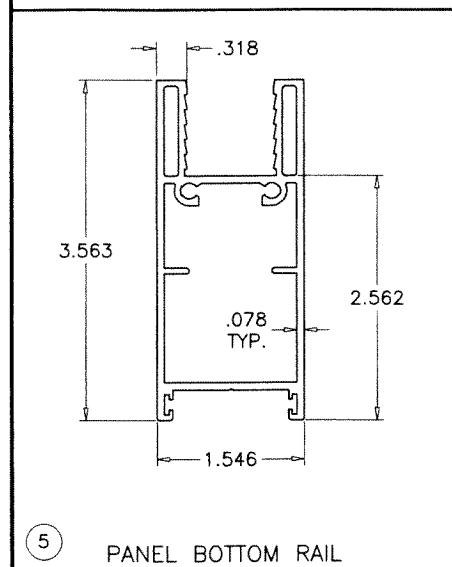
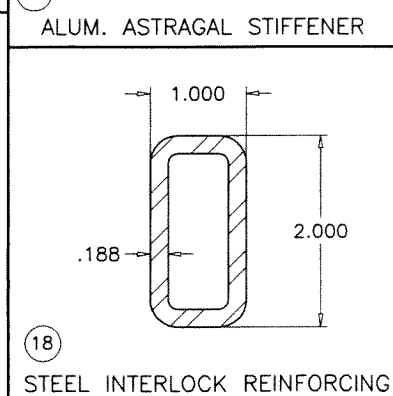
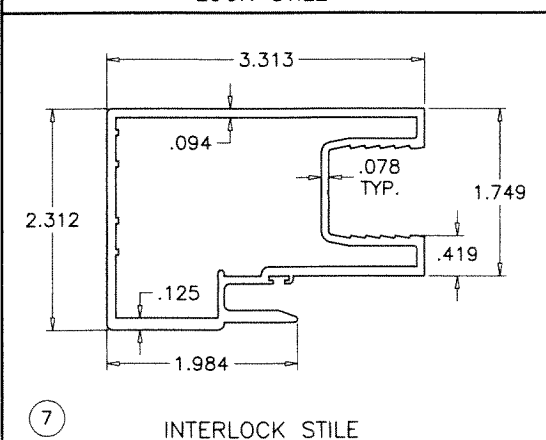
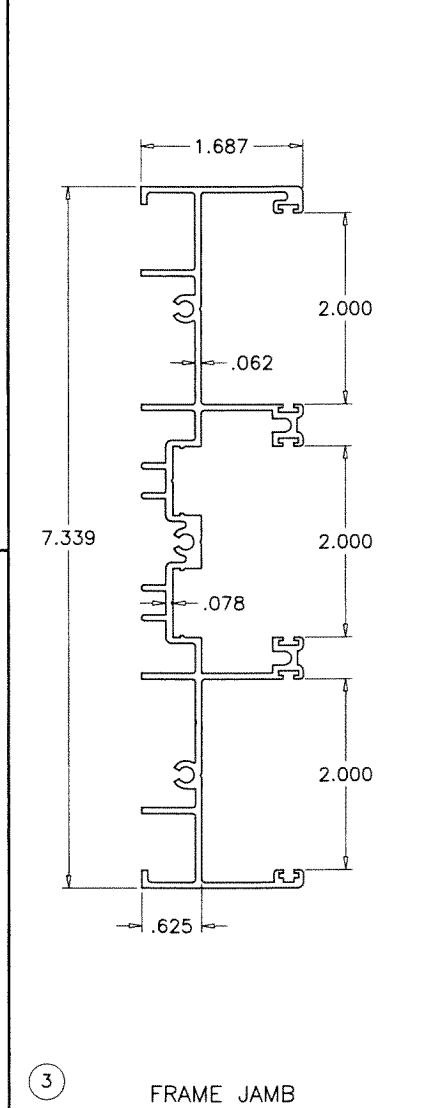
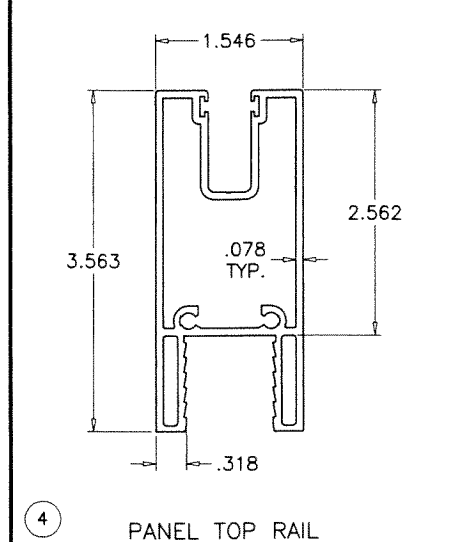
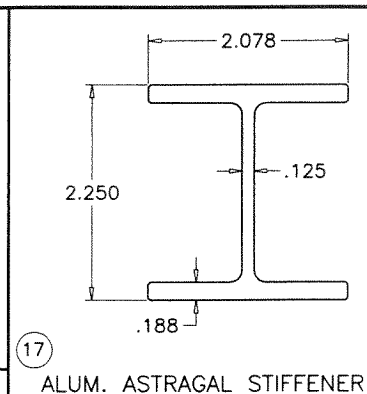
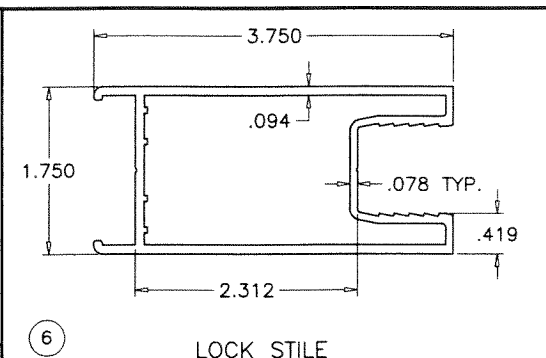
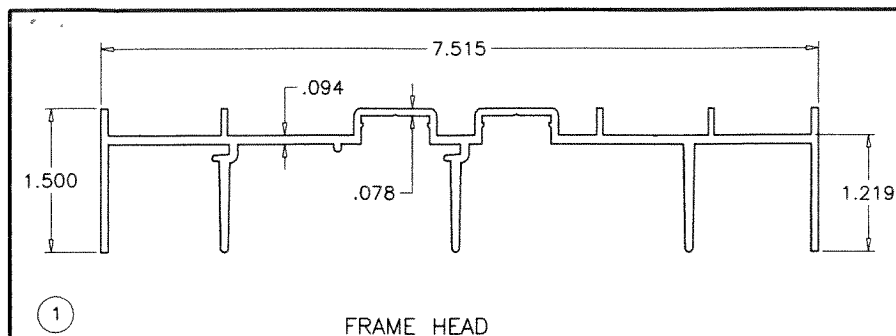
JUL 17 2023

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)
COMP-ANL\18-40D-ES

SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)

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

revisions:		date		by		description	
no	date	no	date	no	date	no	date
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B	06.25.21						
C	07.14.23						
date: 03-09-18		scale: 1/2" = 1"		dr. by: TARIQ		chk. by:	
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sheet 10 of 12							



PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-0312.04

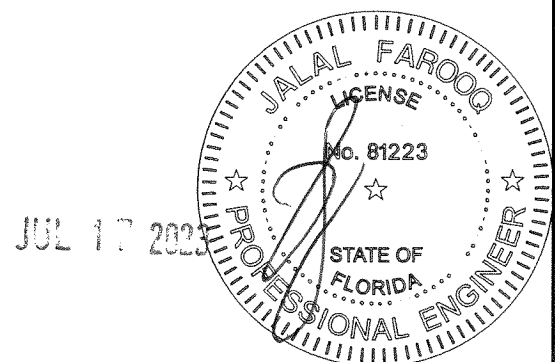
Expiration Date 08/22/2029

By Ishaq I. Chande
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0724.16

Expiration Date 08/22/2024

By Ishaq I. Chande
Miami-Dade Product Control

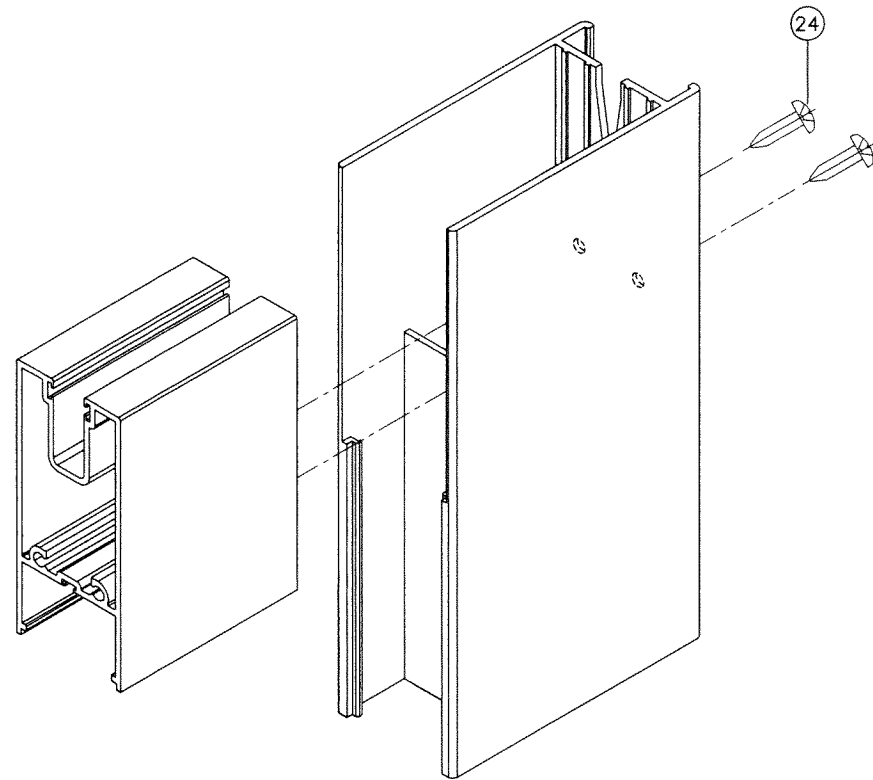


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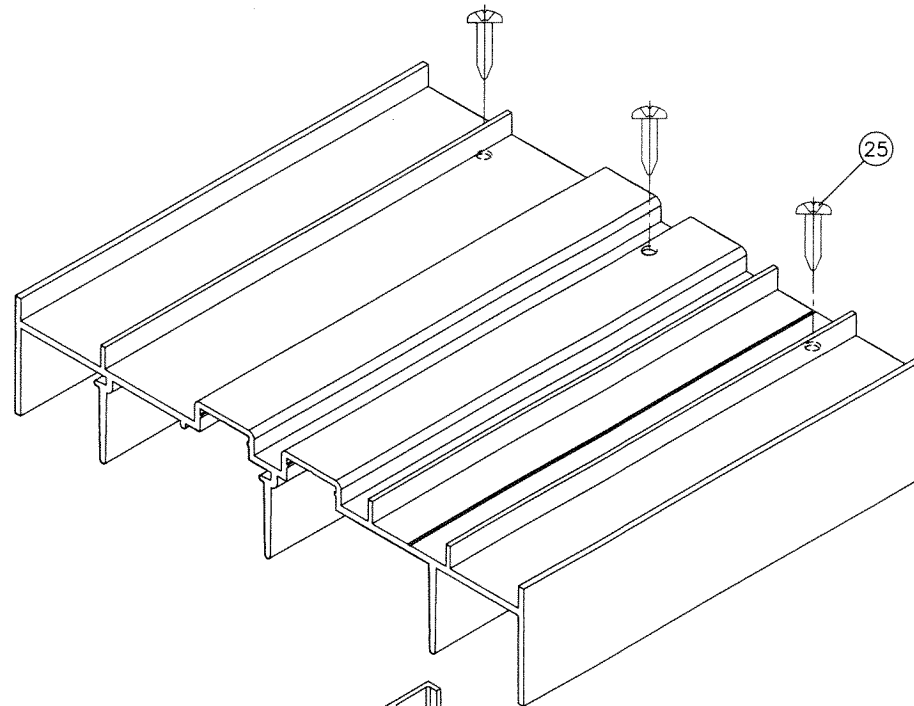
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
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COMP-ANL\18-40D-ES

SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)
E.S. WINDOWS, LLC
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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

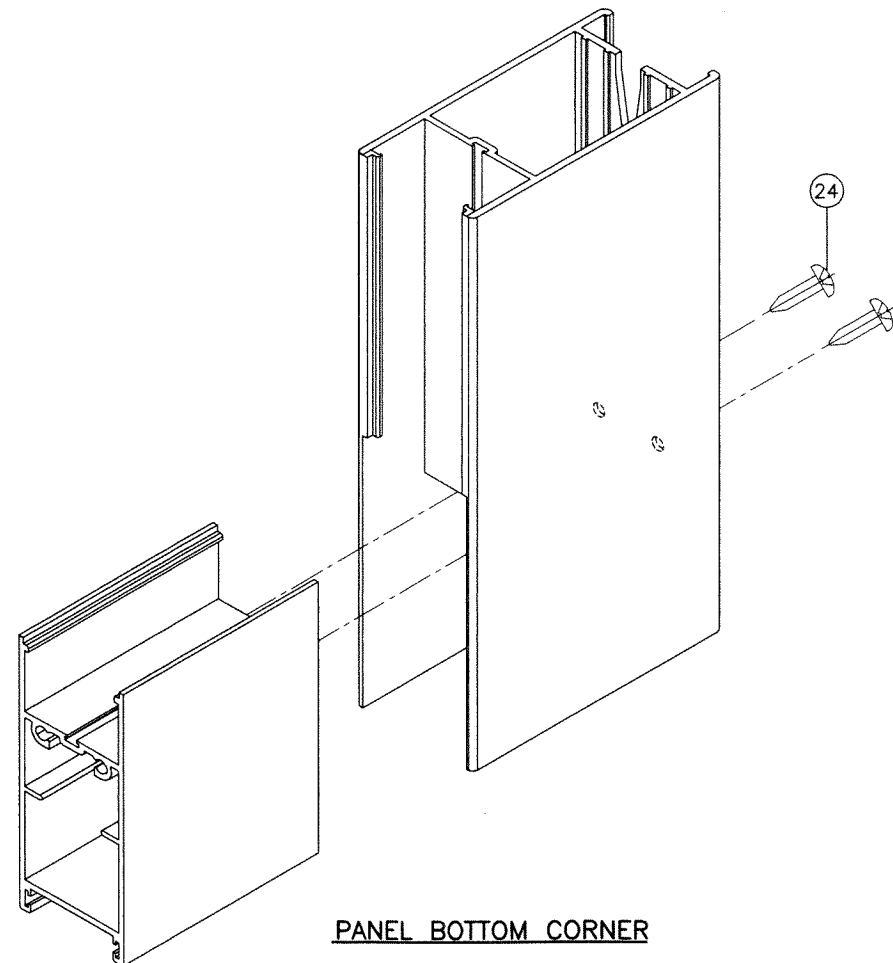
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sheet	11 of 12			



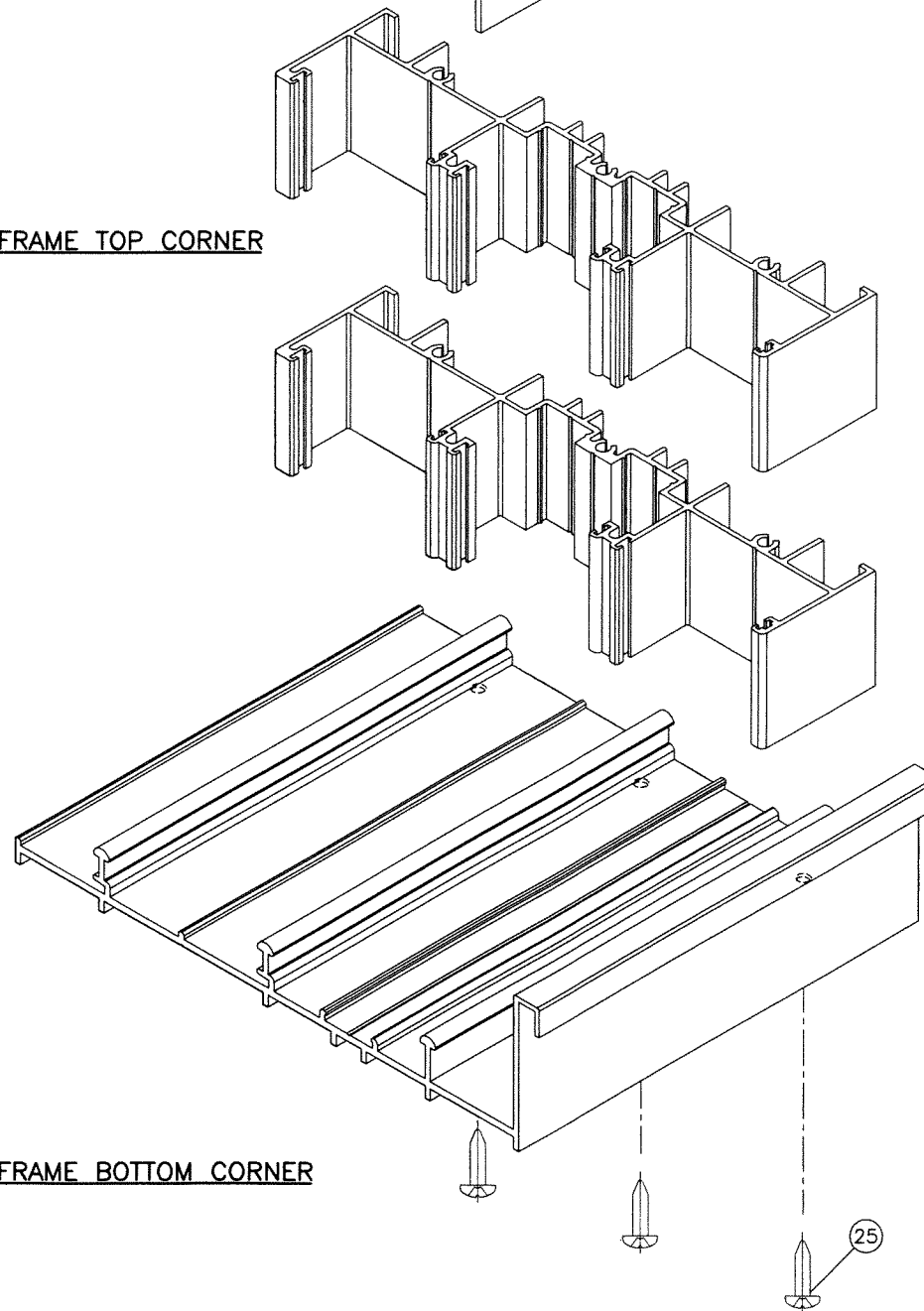
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FRAME TOP CORNER



PANEL BOTTOM CORNER

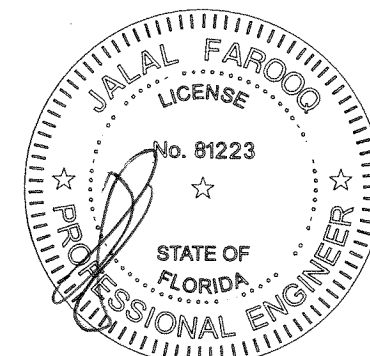


FRAME BOTTOM CORNER

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-0312.04
Expiration Date 08/22/2029
By Ishaq I. Chande
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0724.16
Expiration Date 08/22/2024
By Ishaq I. Chande
Miami-Dade Product Control

JUL 17 2023



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COMP - ANL \ 18-40D - ES

SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)

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MIAMI, FL. 33142
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chk. by:

drawing no.
18-40D
sheet 12 of 12