



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

## NOTICE OF ACCEPTANCE (NOA)

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

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. **18-40 Rev E**, 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 Jun 23, 2021, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Small Missile Impact Resistant

**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 **revises # 18-1004.06** consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



*Ishaq I. Chanda*

NOA No. 21-0628.18  
Expiration Date: August 22, 2024  
Approval Date: August 19, 2021  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W18-40D**, 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 6<sup>th</sup> 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. 21-0628.18**

**Expiration Date: August 22, 2024**

**Approval Date: August 19, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W18-40 Rev E**, 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 2020 (7<sup>th</sup> Edition)**, dated June 24, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Lab compliance as part of the above referenced test report.
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 revises # **18-1004.06**, expiring **08/22/2024**.

*Ishaq I. Chanda*

---

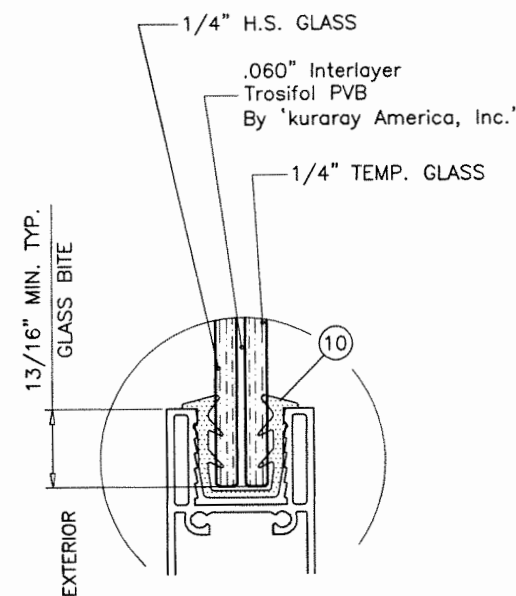
**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 21-0628.18**  
**Expiration Date: August 22, 2024**  
**Approval Date: August 19, 2021**

SERIES-6100-3 TRACK ALUMINUM SLIDING GLASS DOOR

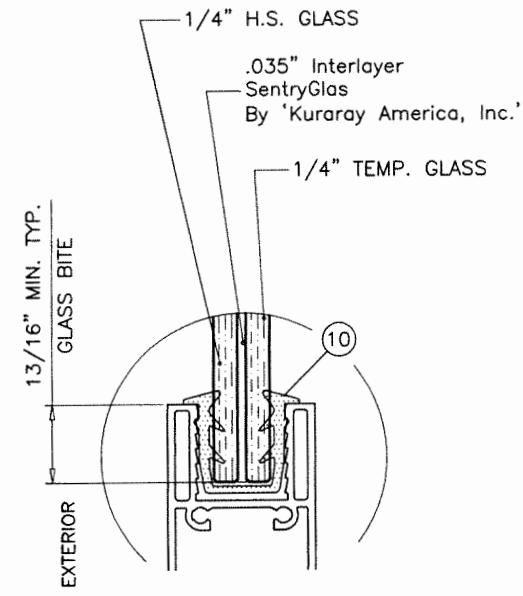
SEE SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REQUIRED REINFORCING.  
USING CHART ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.  
LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION) 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)'.

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.



GLASS TYPE 'A'

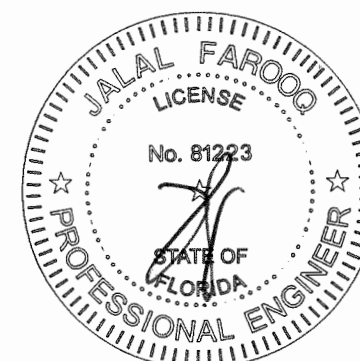


GLASS TYPE 'A1'

GLAZING OPTIONS

LAMINATED GLASS  
DRY GLAZED

PRODUCT REVISED  
as complying with the Florida  
Building Code  
NOA-No. 21-0628.18  
Expiration Date 08/22/2024  
By *Ishaq I. Chande*  
Miami-Dade Product Control



JUN 25 2021

**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

revisions:	no.	date	by	description
	A	11.27.18		REV PER RER COMMENTS
	B	06.25.21		UPDATED TO 2020 FBC

date: 03-09-18

scale: --

dr. by: TARIQ

chk. by:

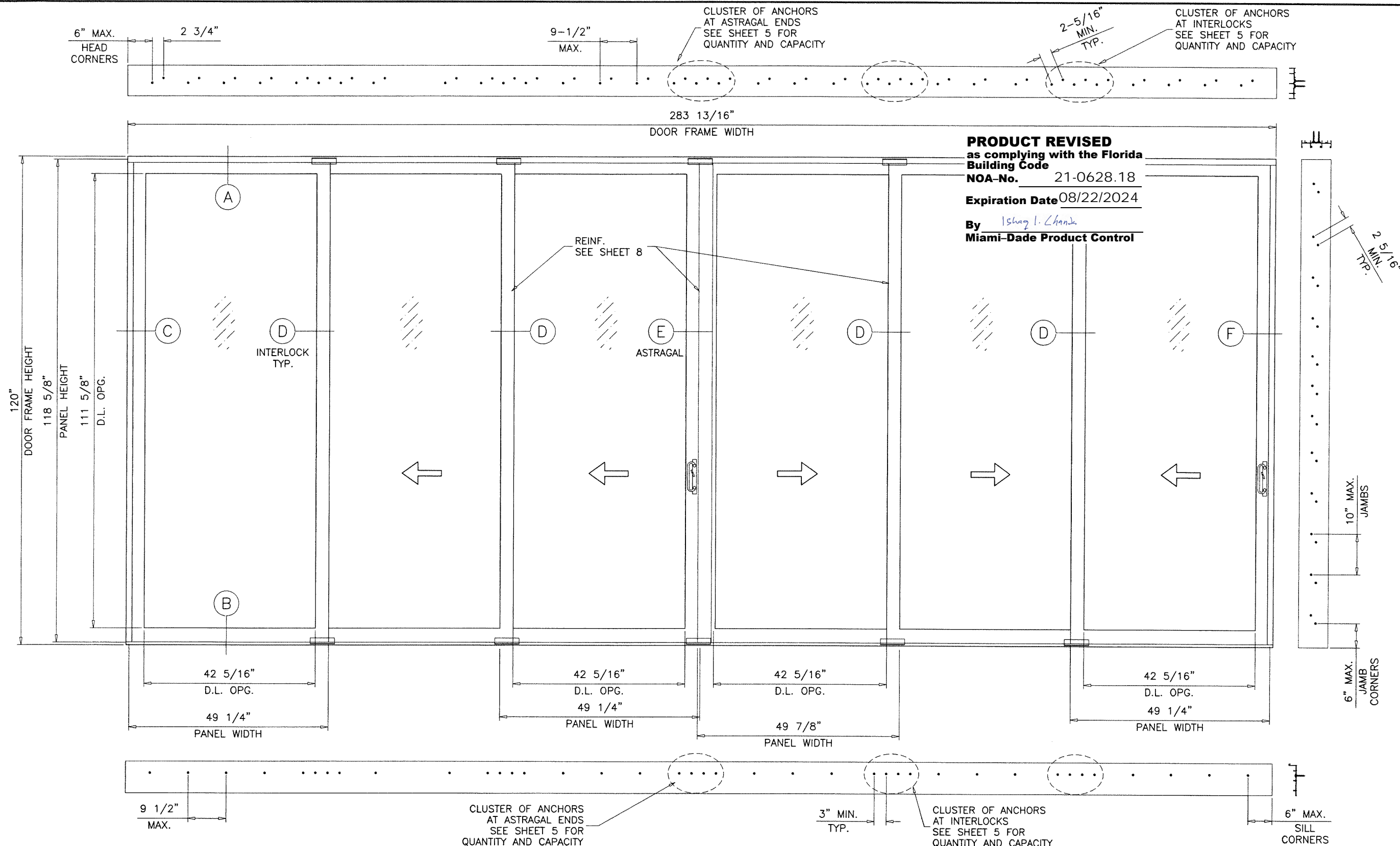
drawing no.  
**18-40D**

sheet 1 of 12

**a f c**

COMP-ANL 18-40D-ES

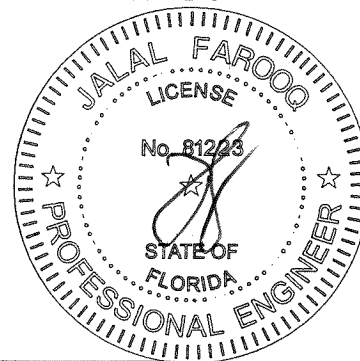




**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 21-0628.18  
 Expiration Date 08/22/2024  
 By *Ishag I. Chande*  
 Miami-Dade Product Control

**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"



JUN 25 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\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

---

no.	date	description
A	11/27/18	NO CHANGE THIS SHEET
B	06/25/21	EDITORIAL CHANGES

---

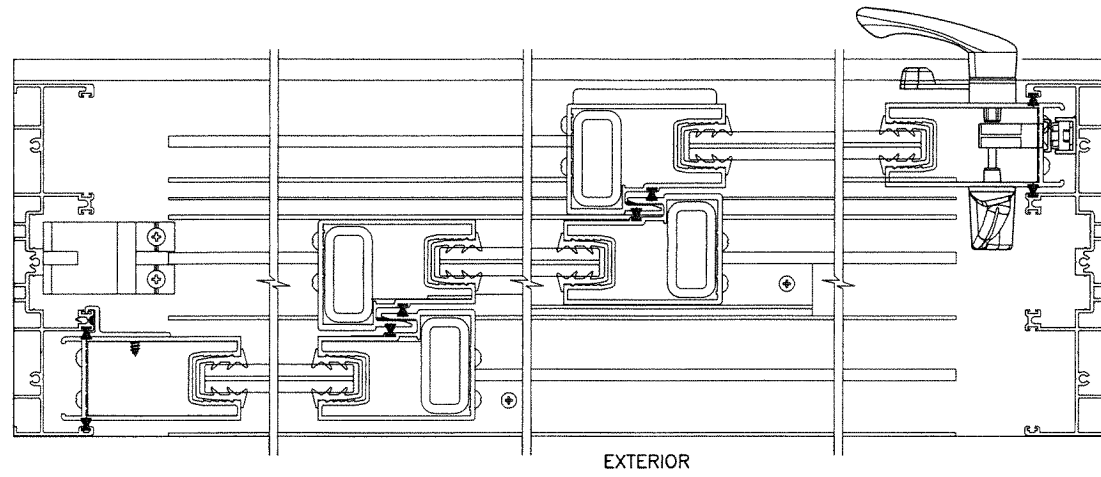
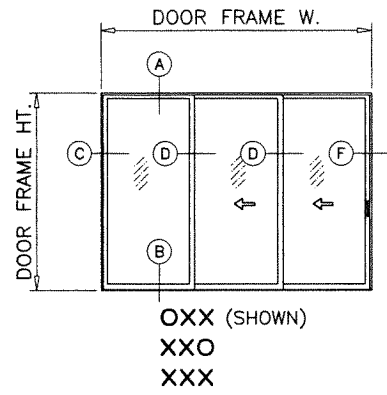
date: 03-09-18	scale: -	dr. by: TARIQ	chk. by:	
----------------	----------	---------------	----------	--

---

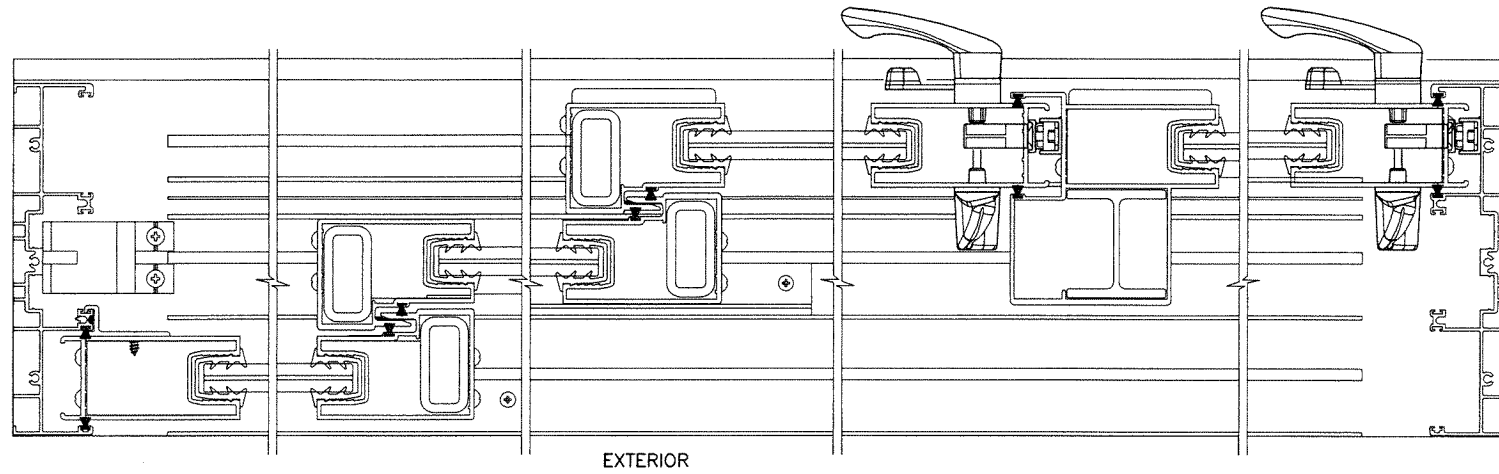
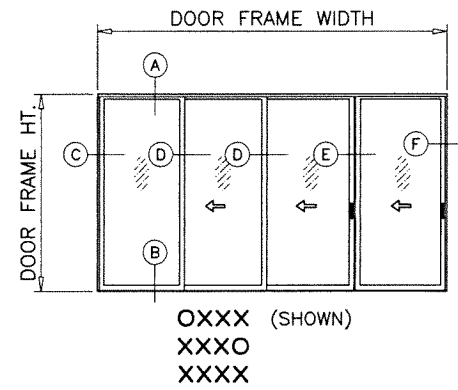
drawing no.

**18-40D**

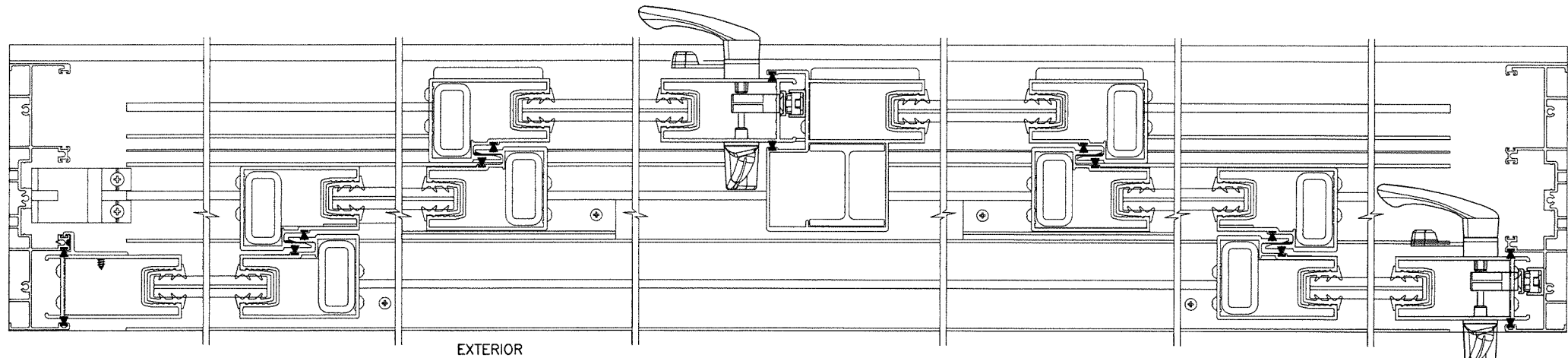
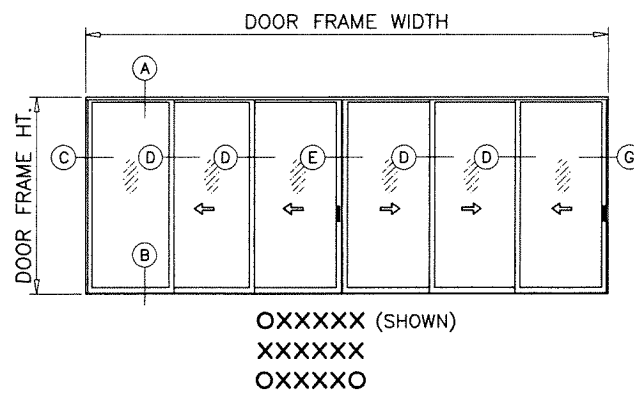
sheet 2 of 12



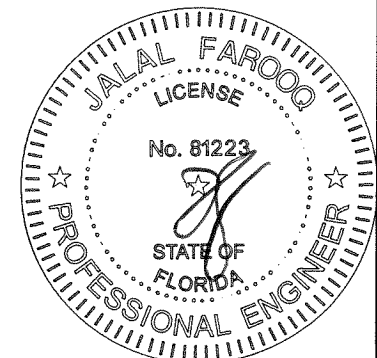
NOTE:  
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE  
SEE APPLICABLE DESIGN PRESSURE & SIZE IN  
SHEET 4 AND ANCHOR INSTALLATION IN SHEET 5.



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0628.18  
Expiration Date 08/22/2024  
By Ishaq I. Chandra  
Miami-Dade Product Control



APPROVED CONFIGURATIONS



JUN 25 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\18-40D-ES

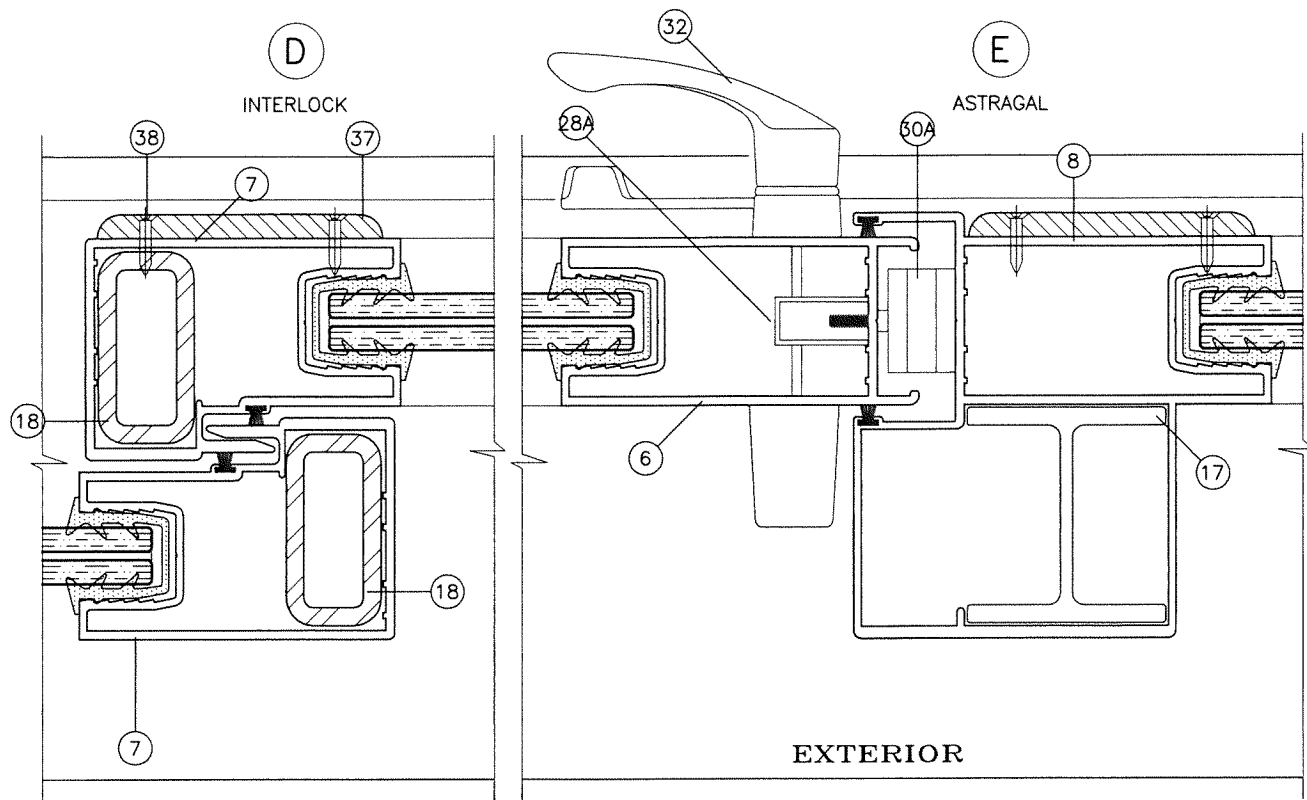
SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		date:	03-09-18
no	description	by	
A	11.27.18 NO CHANGE THIS SHEET		
B	06.25.21 EDITORIAL CHANGES		
		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.

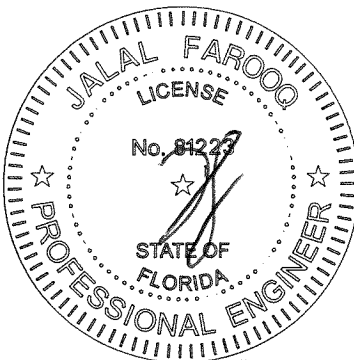


STEEL REINFORCING AT INTERLOCK  
ALUMINUM REINFORCING AT ASTRAGAL

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0628.18  
Expiration Date 08/22/2024  
By Ishaq I. Chande  
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



JUN 25 2020

**a f 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 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 REV PER RER COMMENTS  
B 06.25.21 EDITORIAL CHANGES

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

drawing no.  
**18-40D**  
sheet 4 of 12



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	108	94.3	94.3	94.3	94.3
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		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	102	94.3	94.3
60		88.0	88.0
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		99.6	99.6
56	108	94.3	94.3
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		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

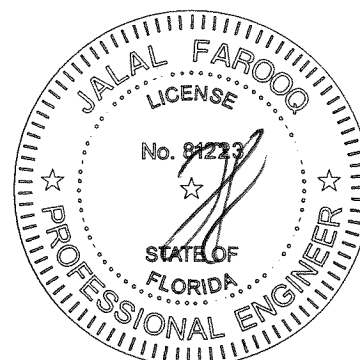
INTO CONCRETE = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

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.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0628.18

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  
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**  
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

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

drawing no.

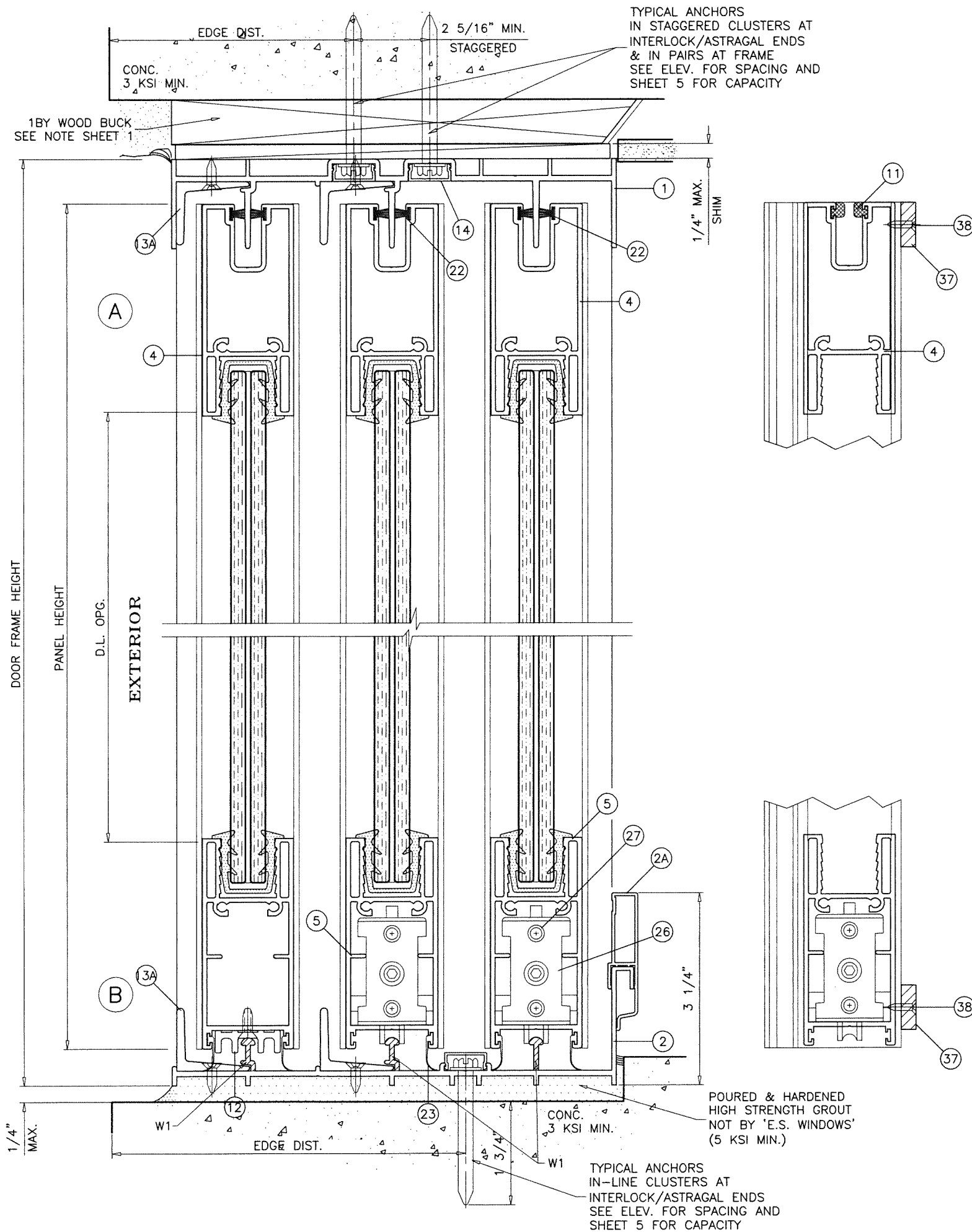
18-40D

sheet 5 of 12

COMP-ANL\18-40D-ES

JUN 25 2021

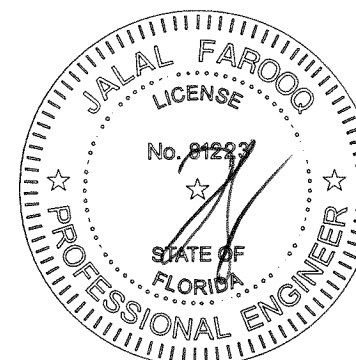




**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 21-0628.18  
 Expiration Date 08/22/2024  
 By Ishaq I. Chank  
 Miami-Dade Product Control

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

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



**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

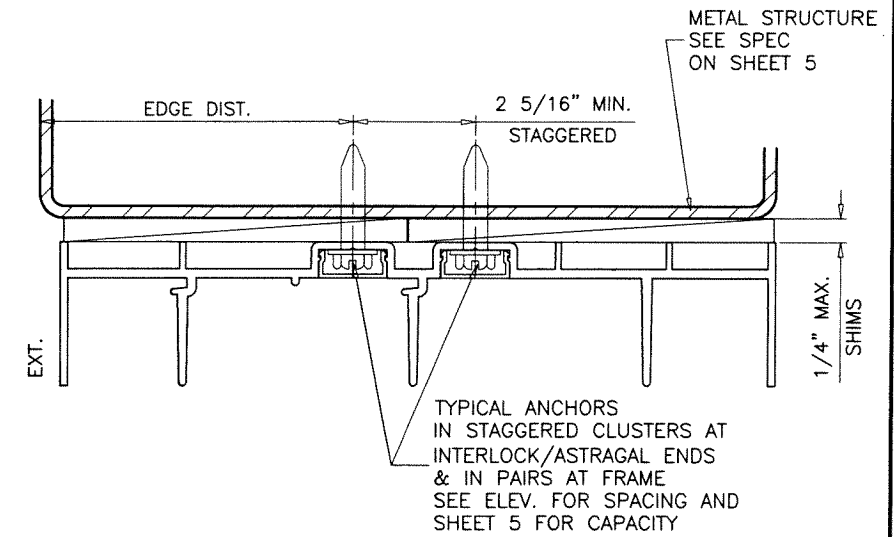
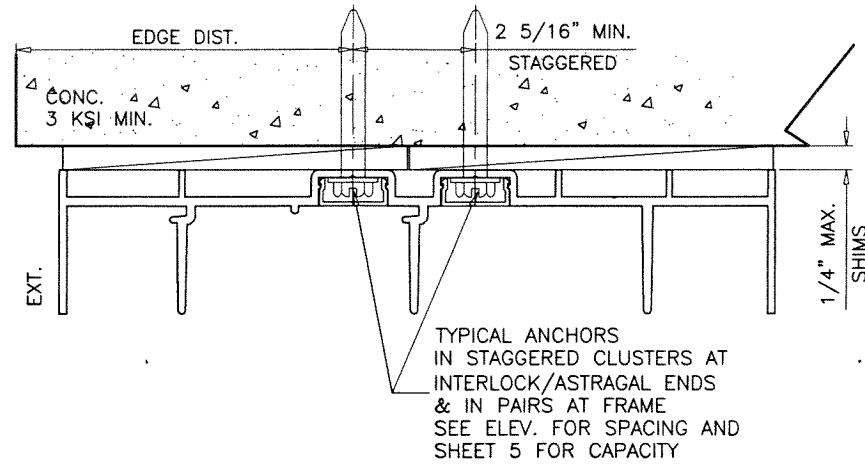
---

revisions:		date:	by:	description
no.	date	11.27.18	A	NO CHANGE THIS SHEET
		06.25.21	B	EDITORIAL CHANGES

---

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

drawing no.  
**18-40D**  
 sheet 6 of 12



MIAMI-DADE COUNTY APPR'D MULLION  
SEE SEPARATE NOA

EXT.

TYPICAL ANCHORS  
IN STAGGERED CLUSTERS AT  
INTERLOCK/ASTRAGAL ENDS  
& IN PAIRS AT FRAME  
SEE ELEV. FOR SPACING AND  
SHEET 5 FOR CAPACITY

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.



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

**SERIES-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

date: 03-09-18

scale: 1/2" = 1"

dr. by: TARIQ

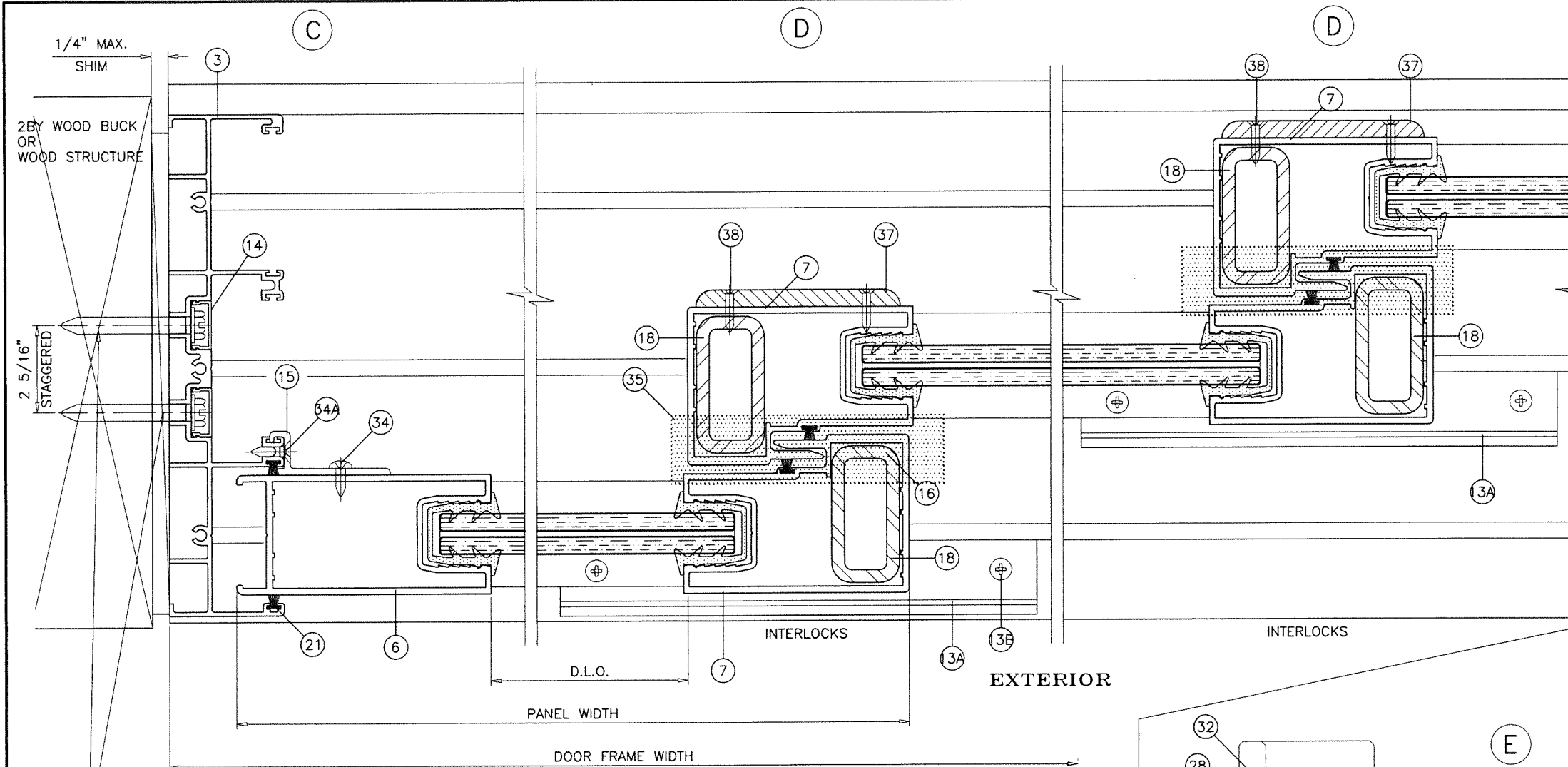
chk. by:

drawing no.

18-40D

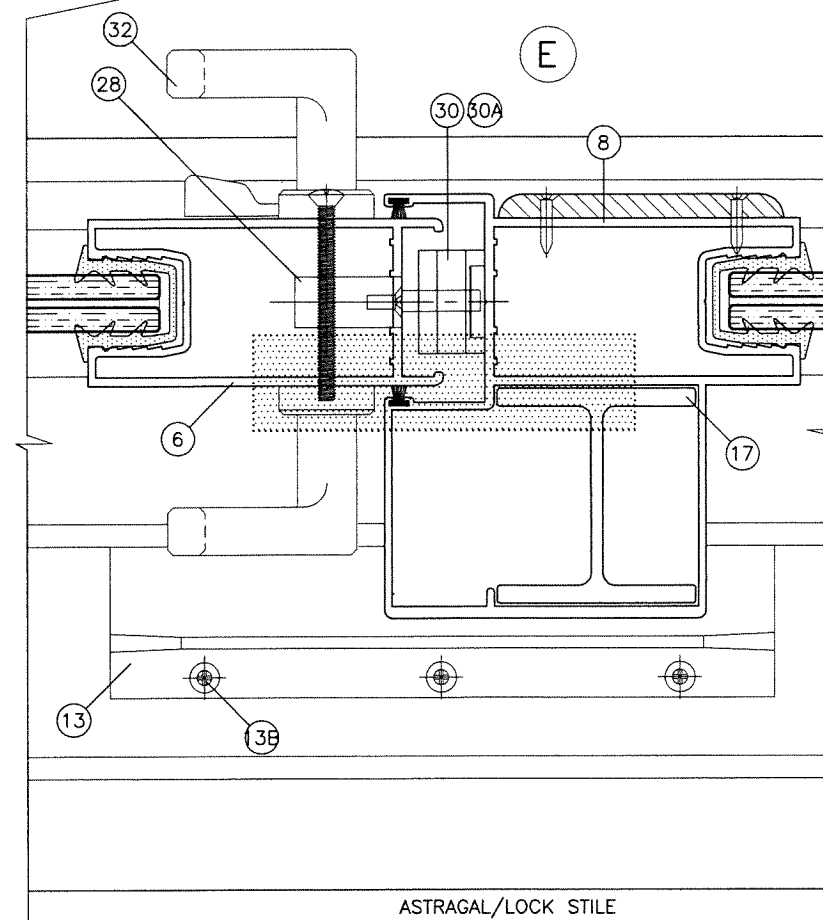
sheet 7 of 12

revisions:	
no	description
A	11.27.18 NO CHANGE THIS SHEET
B	06.25.21 EDITORIAL CHANGES

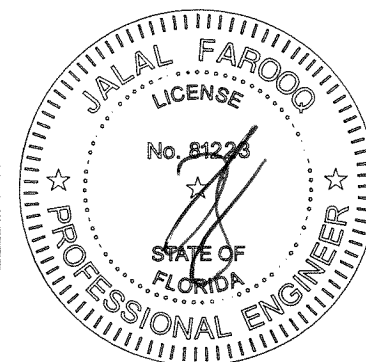


TYPICAL ANCHORS IN PAIRS  
SEE ELEV. FOR SPACING  
SEE SHEET 5 FOR DESCRIPTION

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0628.18  
Expiration Date 08/22/2024  
By Ishag I. Chande  
Miami-Dade Product Control



ASTRAGAL/LOCK STILE

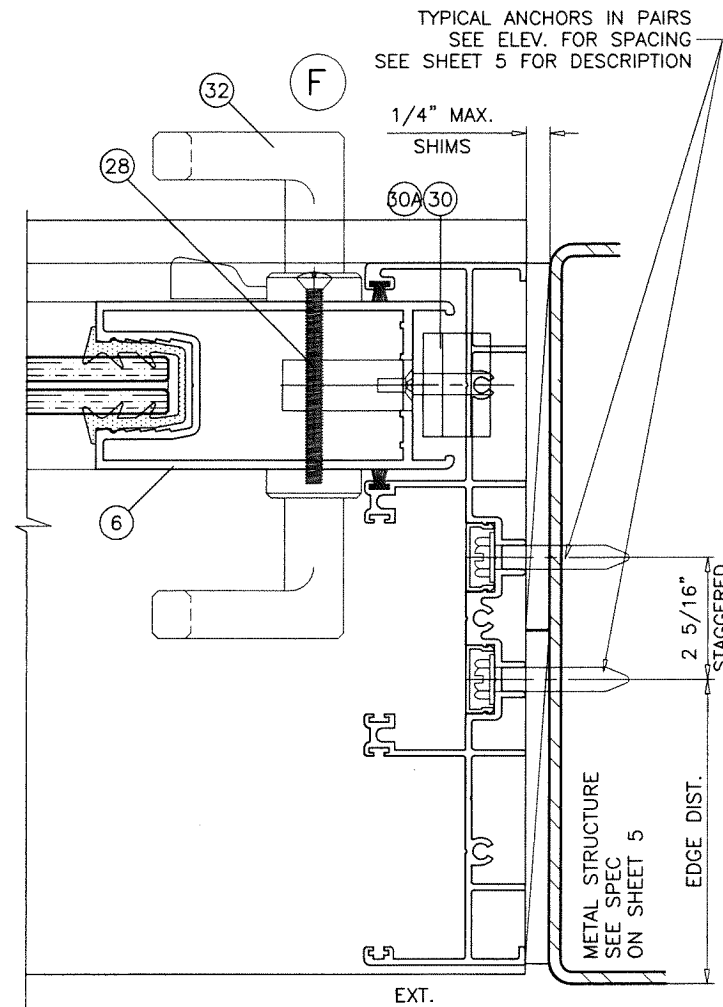
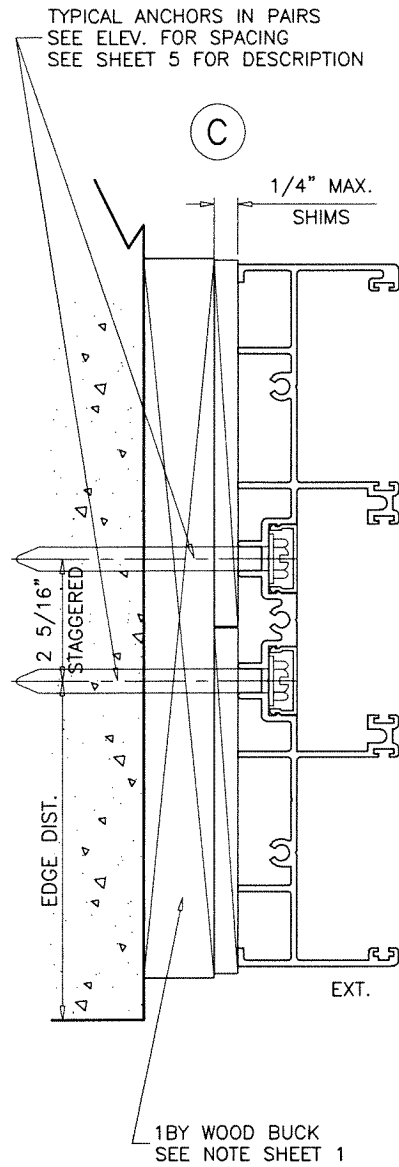


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL 18-40D-ES

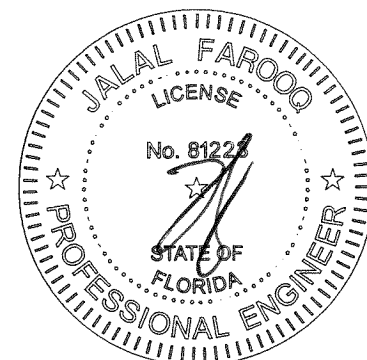
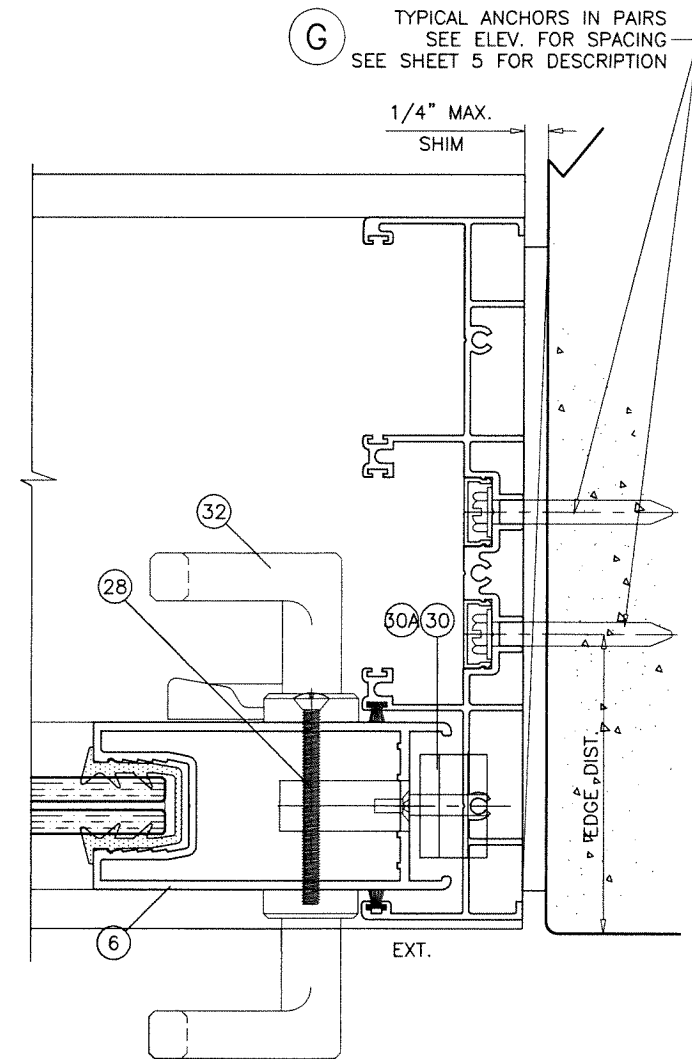
SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	by	description
A	11.27.18	B	06.25.21		REV PER RER COMMENTS
					EDITORIAL CHANGES
date:	03-09-18	scale:	1/2" = 1"	dr. by:	TAR/Q
chk. by:					
drawing no.	18-40D				
sheet	8 of 12				





**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0628.18  
Expiration Date 08/22/2024  
By Ishag I. Chande  
Miami-Dade Product Control



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

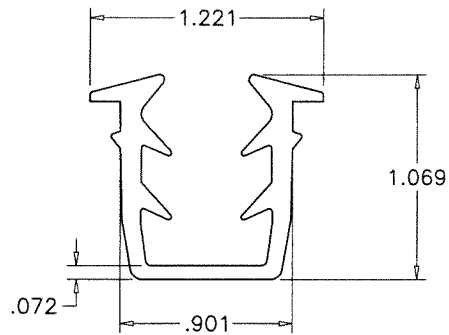
SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		date:	03-09-18	scale:	1/2" = 1"	dr. by:	TARIQ	chk. by:	
no	date	by	description	rev	per	rer	comments		
A	11.27.18		REV PER RER COMMENTS						
B	06.25.21		EDITORIAL CHANGES						

drawing no. 18-40D  
sheet 9 of 12

COMP-ANL 18-40D-ES

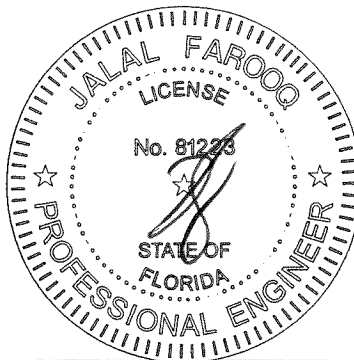
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-6000-408	1	FRAME HEAD	6005-T5	-
2	ES-6000-402	1	FRAME SILL	6005-T5	-
2A	ES-6028	1	SILL RISER	6063-T6	-
3	ES-6000-403	2	FRAME JAMB	6063-T6	-
4	ES-6000-040	2/ PANEL	TOP RAIL	6063-T6	-
5	ES-6000-041	2/ PANEL	BOTTOM RAIL	6063-T6	-
6	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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0628.18  
Expiration Date 08/22/2024  
By Ishaq I. Chande  
Miami-Dade Product Control



JUL 25 2018

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

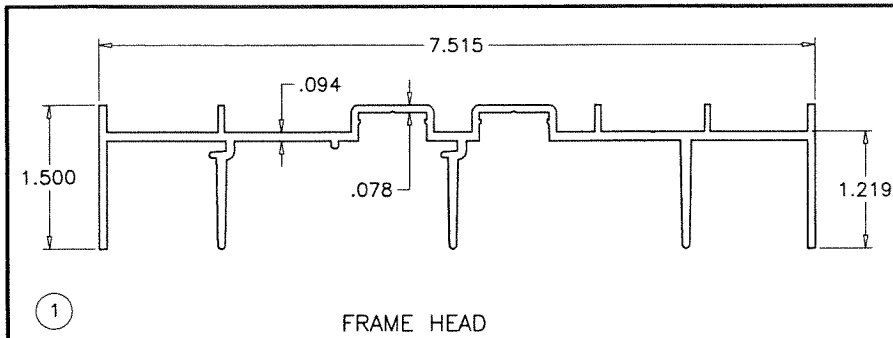
SERIES-6100-3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)

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

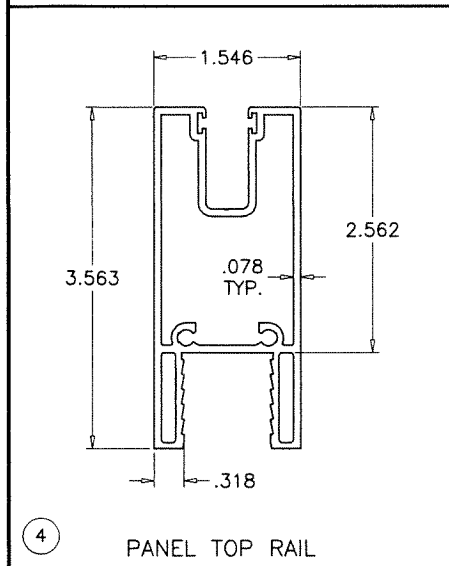
revisions:	no	date	by	description
	A	11.27.18		REV PER RER COMMENTS
	B	06.25.21		EDITORIAL CHANGES

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

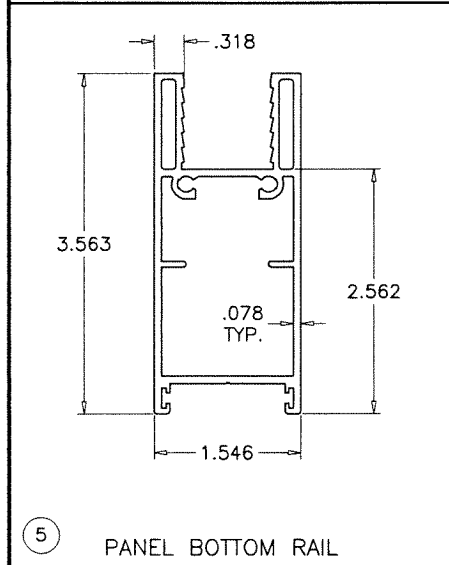
drawing no.	18-40D
sheet	10 of 12



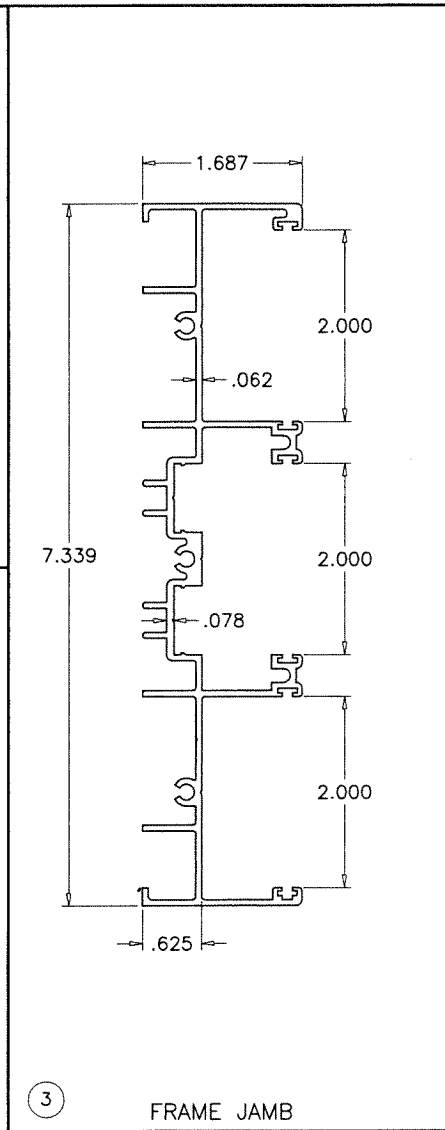
FRAME HEAD



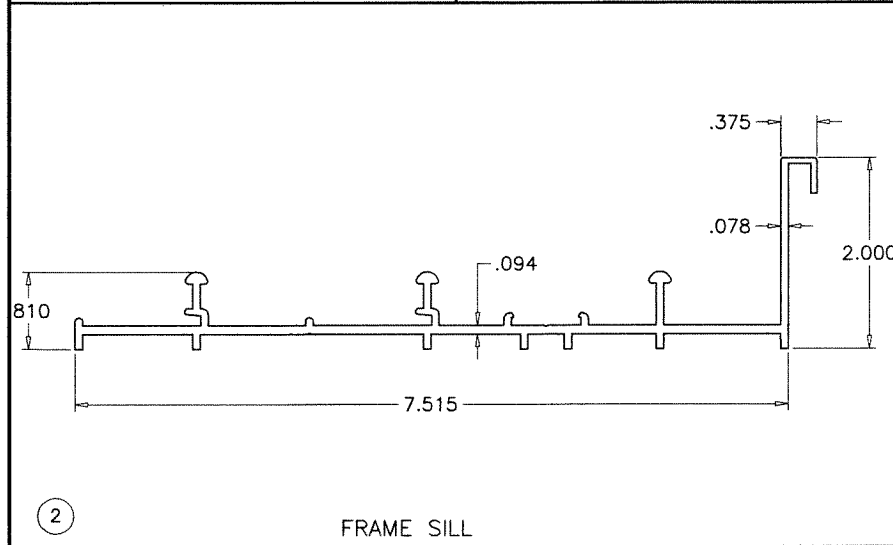
PANEL TOP RAIL



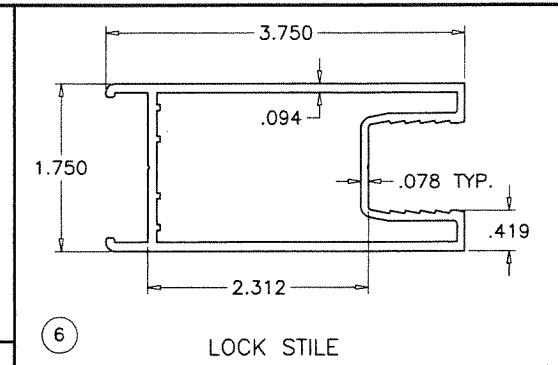
PANEL BOTTOM RAIL



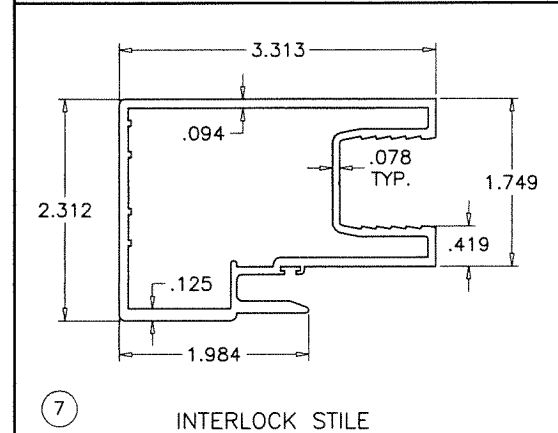
FRAME JAMB



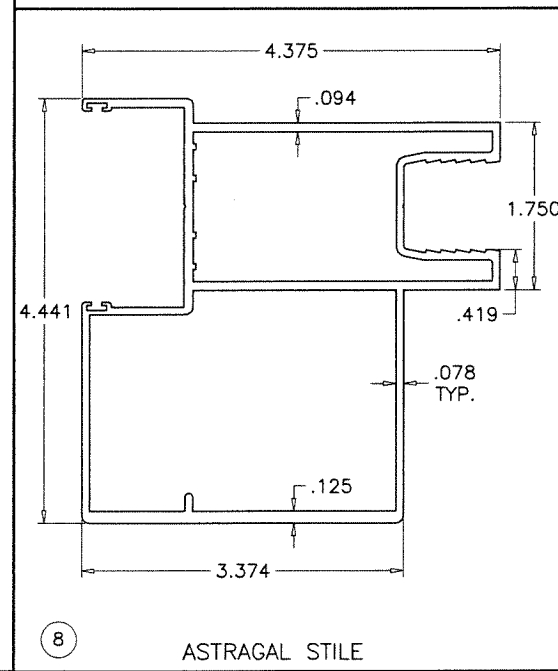
FRAME SILL



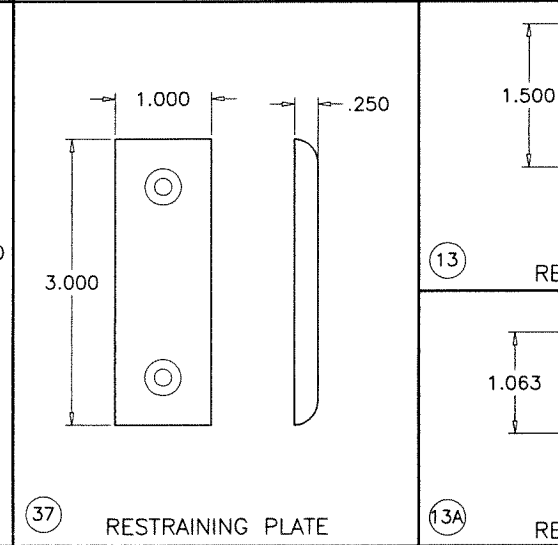
LOCK STILE



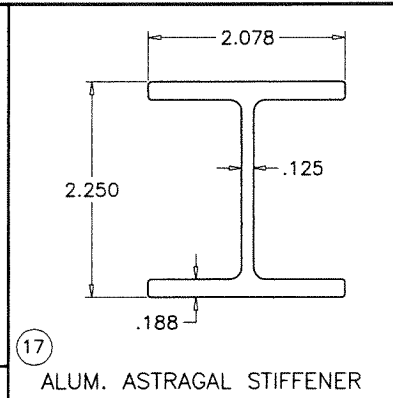
INTERLOCK STILE



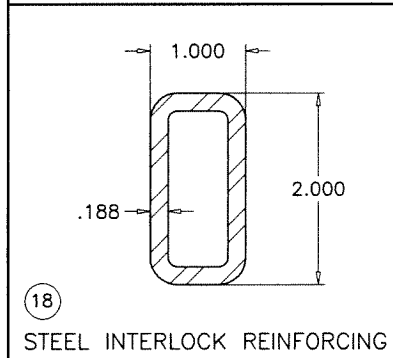
ASTRAGAL STILE



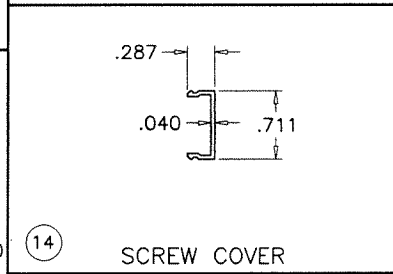
RESTRAINING PLATE



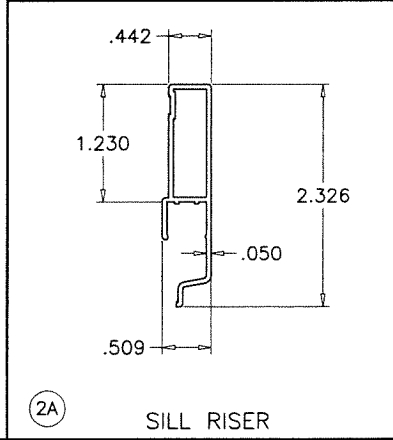
ALUM. ASTRAGAL STIFFENER



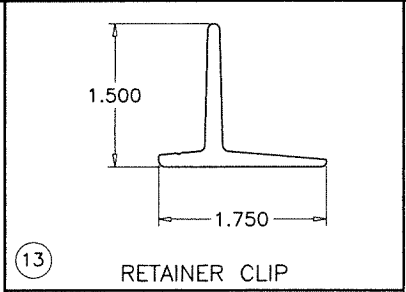
STEEL INTERLOCK REINFORCING



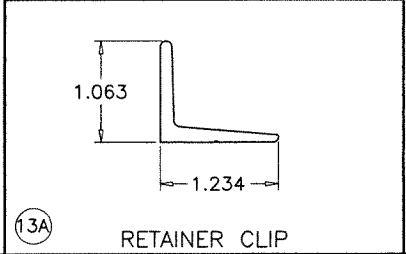
SCREW COVER



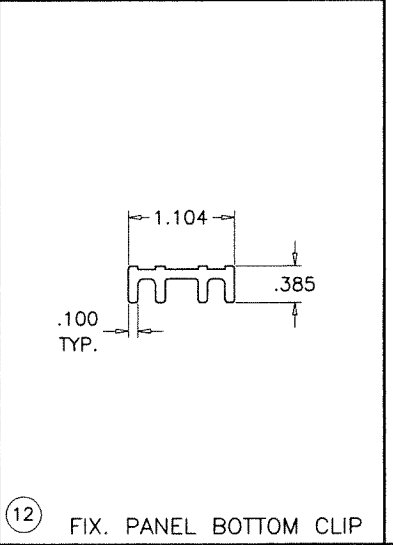
SILL RISER



RETAINER CLIP

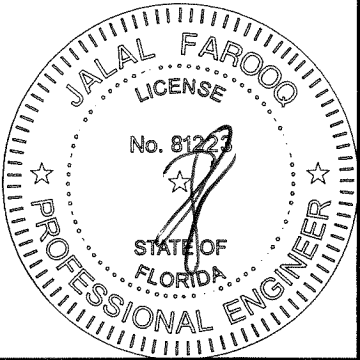


RETAINER CLIP



FIX. PANEL BOTTOM CLIP

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0628.18  
Expiration Date 08/22/2024  
By Ishag I. Chande  
Miami-Dade Product Control



JUN 25 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 18-40D-ES

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

revisions:		date		description	
no	date	by	description	rev	per
A	11.27.18		REV PER RER COMMENTS		
B	06.25.21		EDITORIAL CHANGES		

date: 03-09-18

scale: 1/2" = 1"

dr. by: TARIQ

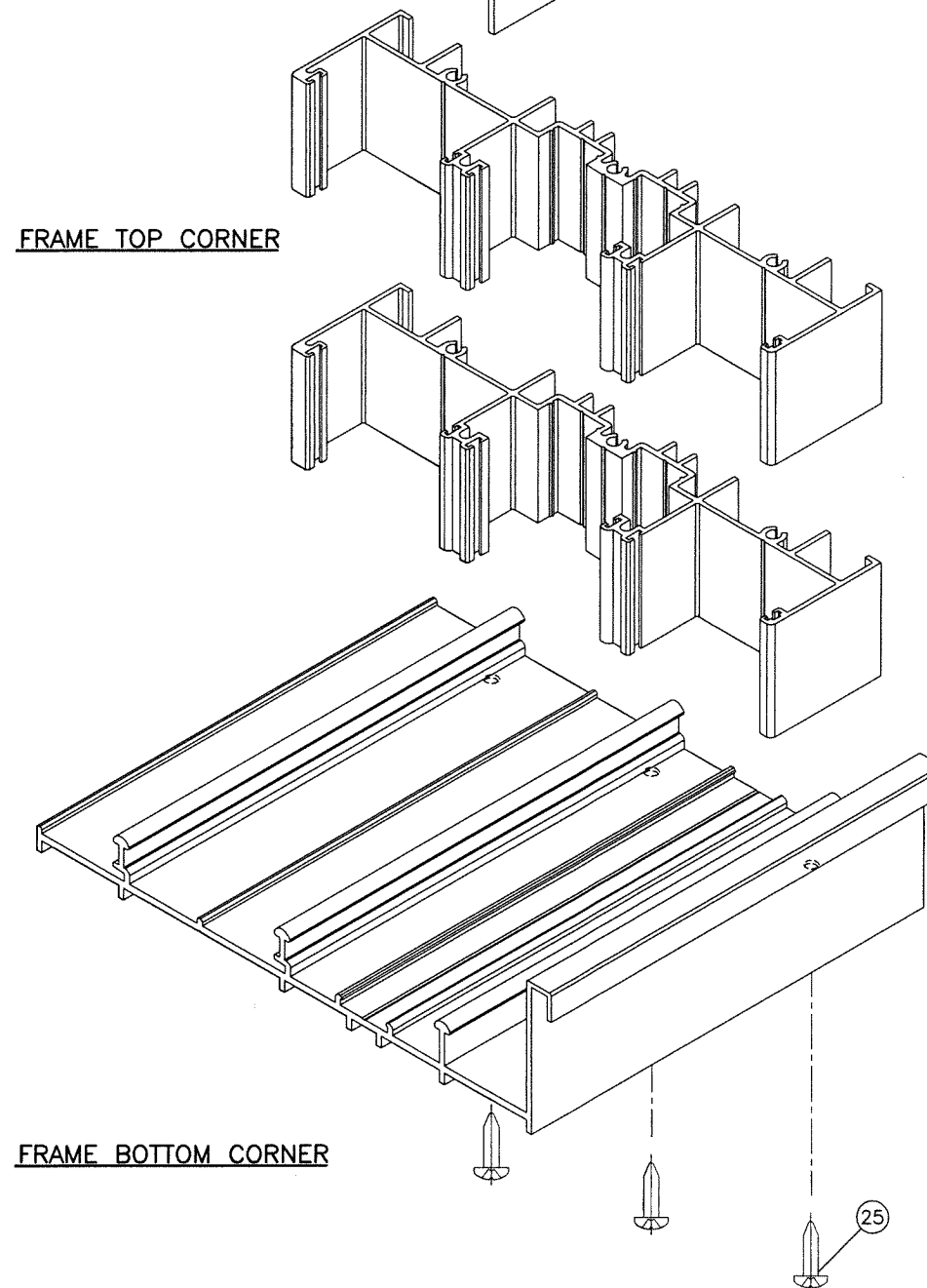
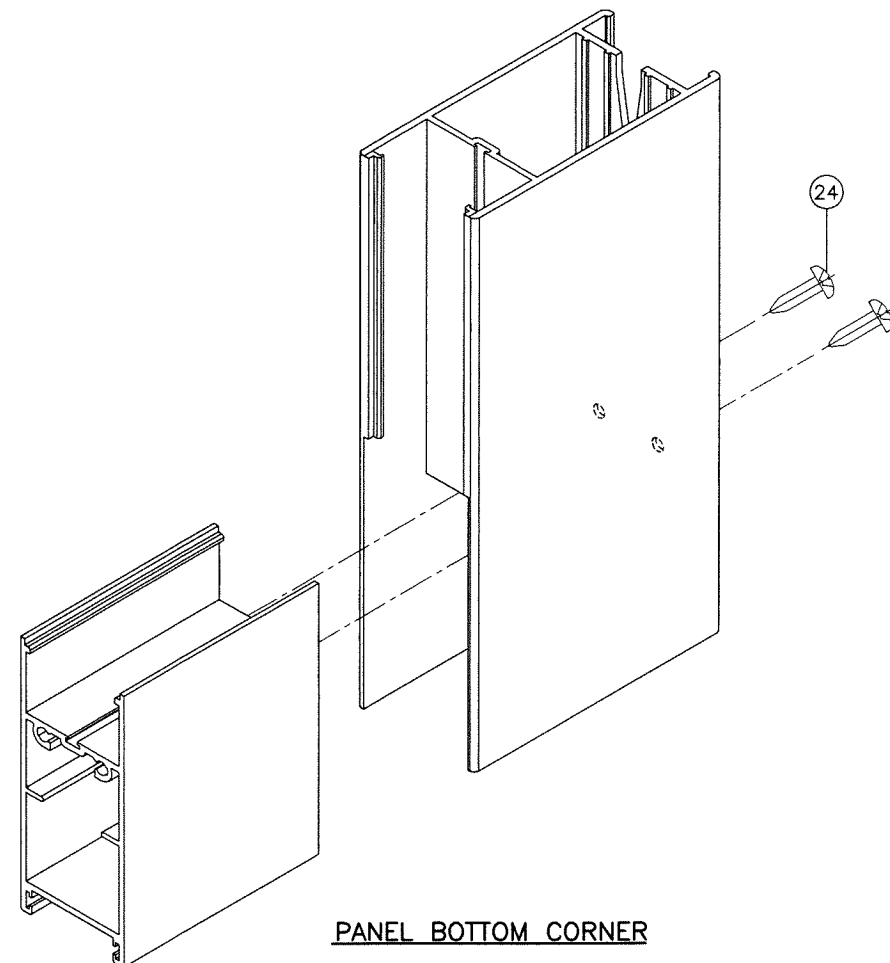
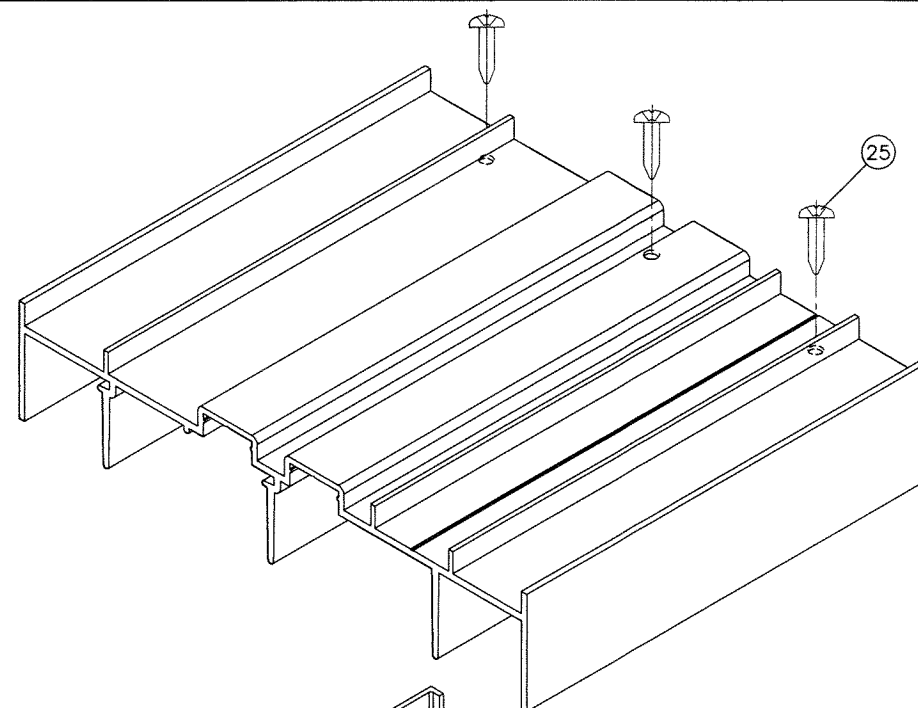
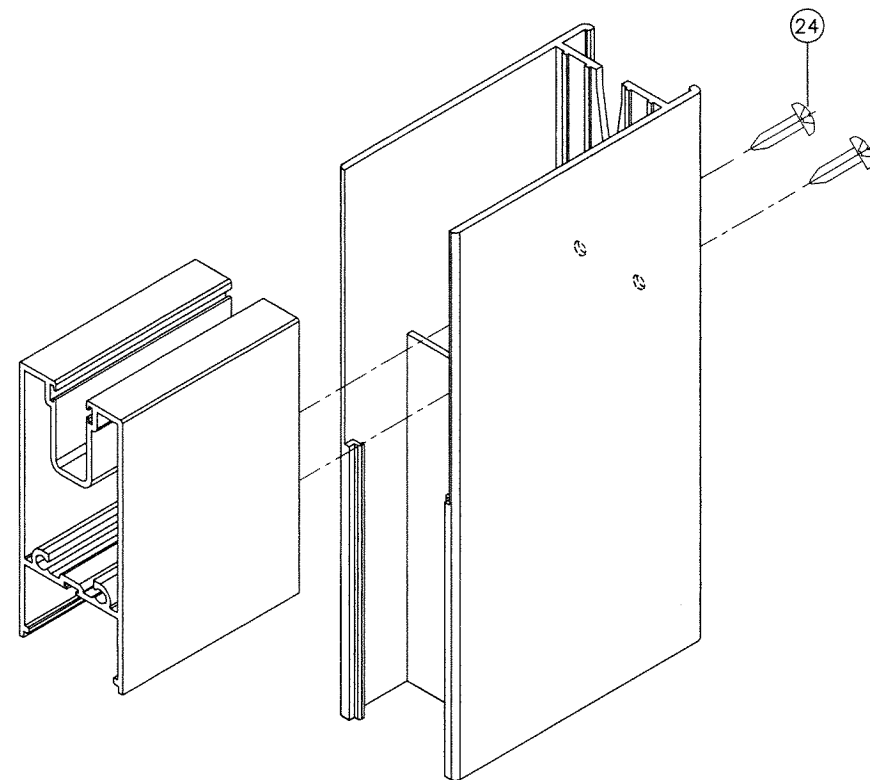
chk. by:

drawing no.

**18-40D**

sheet 11 of 12





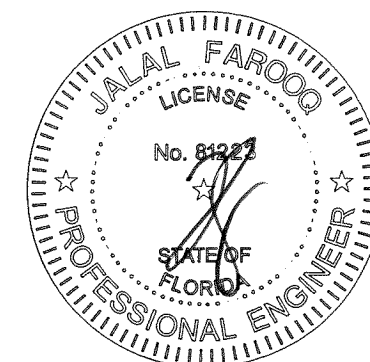
**PRODUCT REVISED**  
as complying with the Florida  
Building Code

**Building Code**  
**NOA-No.** 21-0628.18

**Expiration Date**08/22/2024

By Ishaq I. Chande  
Miami-Dade Product Control

**Miami-Dade Product Control**



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

**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

E.S. WINDOWS, LLC

E.S. WINDOWS, LLC  
3550 N.W. 49 STREET

MIAMI, FL. 33142

MIAMI, FL. JUL 42  
TEL. (305) 638-5151

FAX. (305) 638-5158

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

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

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

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

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

COMP--ANL\18-40D-ES

date: 03-09-18		drawing no.	
scale: 1/2" = 1"		18-40D	
dr. by: TARIQ		sheet 12 of 12	
chk. by:			
revisions:			
no	date	by	description
A	11.27.18		NO CHANGE THIS SHEET
B	06.25.21		EDITORIAL CHANGES