MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

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 D,** 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 SEP 21, 2026, 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 **revises** # **24-0312.04** 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

E.S. Windows, LLC

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. 26-0924.18
Expiration Date: August 22, 2029
Approval Date: November 05, 2026

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. 26-0924.18
Expiration Date: August 22, 2029
Approval Date: November 05, 2026

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. 26-0924.18
Expiration Date: August 22, 2029
Approval Date: November 05, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. 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. 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. 26-0924.18
Expiration Date: August 22, 2029
Approval Date: November 05, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **W18-40D Rev D,** 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 SEP 21, 2026, 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. **26-0625.02** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**", expiring on 07/08/28.

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 2026 (**9th** Edition) and FBC 2023 (**8th** Edition), prepared by Al Farooq Corporation, dated 09/21/26, 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).

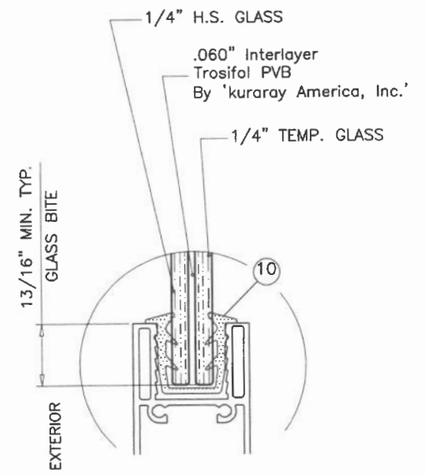
G. OTHER

1. This NOA **revises** # **24-0312.04** and updates to FBC 2026**,** expiring **08/22/2029.**

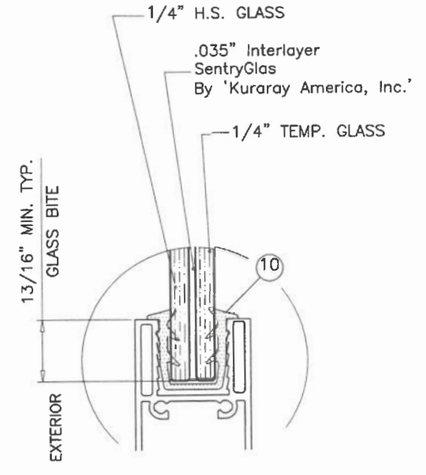
Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.18
Expiration Date: August 22, 2029
Approval Date: November 05, 2026

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.



GLASS TYPE 'A'



GLASS TYPE 'A1'

GLAZING OPTIONS

LAMINATED GLASS
DRY GLAZED

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 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

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

ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

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

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.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0924.18
Expiration Date 08/22/2029
By Ishaq I. Chanda
Miami-Dade Product Control

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

SEP 2 1 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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.)

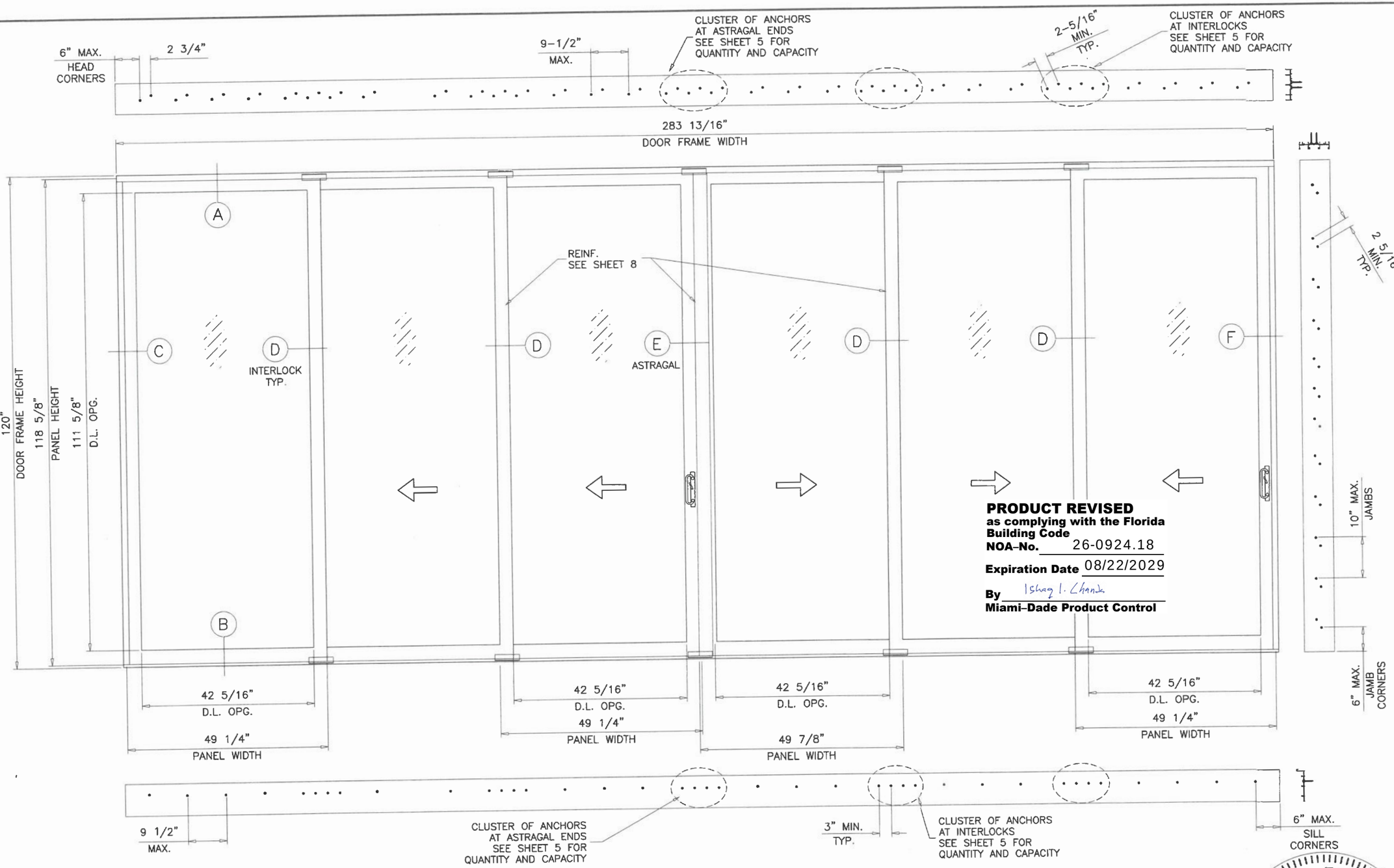
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5158 FAX. (305) 638-5151

revisions:

no	date	by	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
D	09.15.26		UPDATED TO 2026 FBC

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

drawing no. 18-40D



PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.18
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By Ishaq I. Chanda
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"

SEP 2 1 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

afc

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

COMP–ANL\18–40D–ES

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

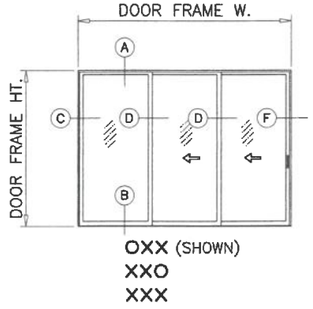
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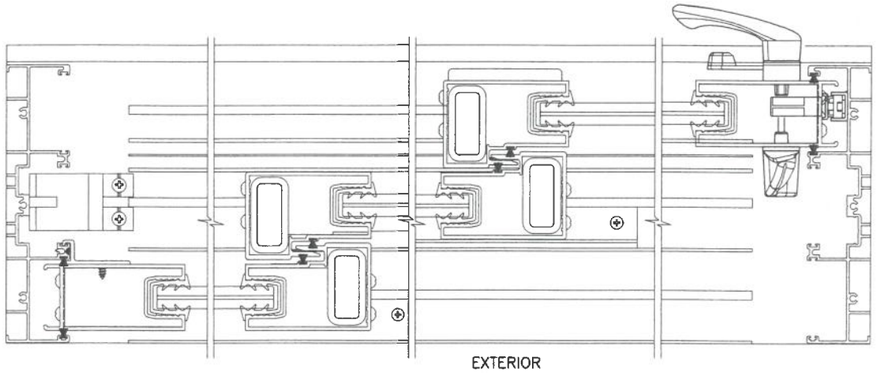
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no	date	by description
A	11.27.18	NO CHANGE THIS SHEET
B	06.25.21	EDITORIAL CHANGES
C	07.14.23	NO CHANGE THIS SHEET
D	09.15.26	NO CHANGE THIS SHEET

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

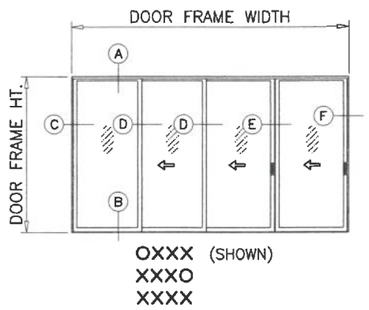
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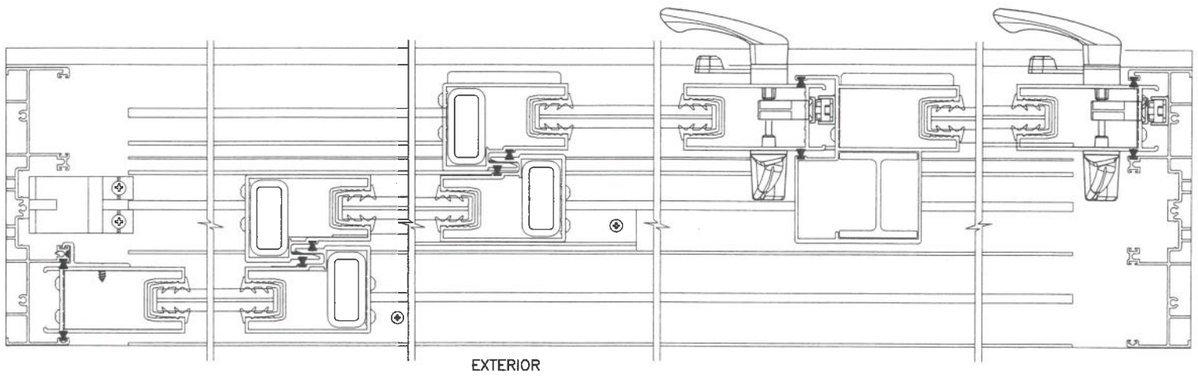
sheet 2 of 12



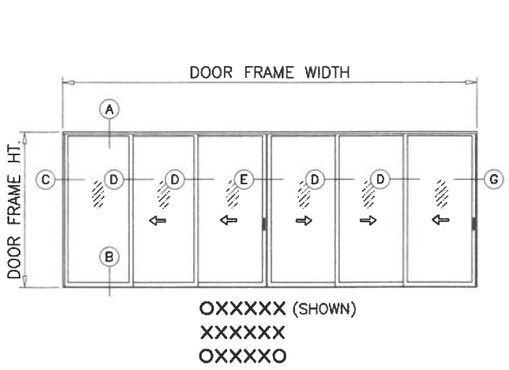


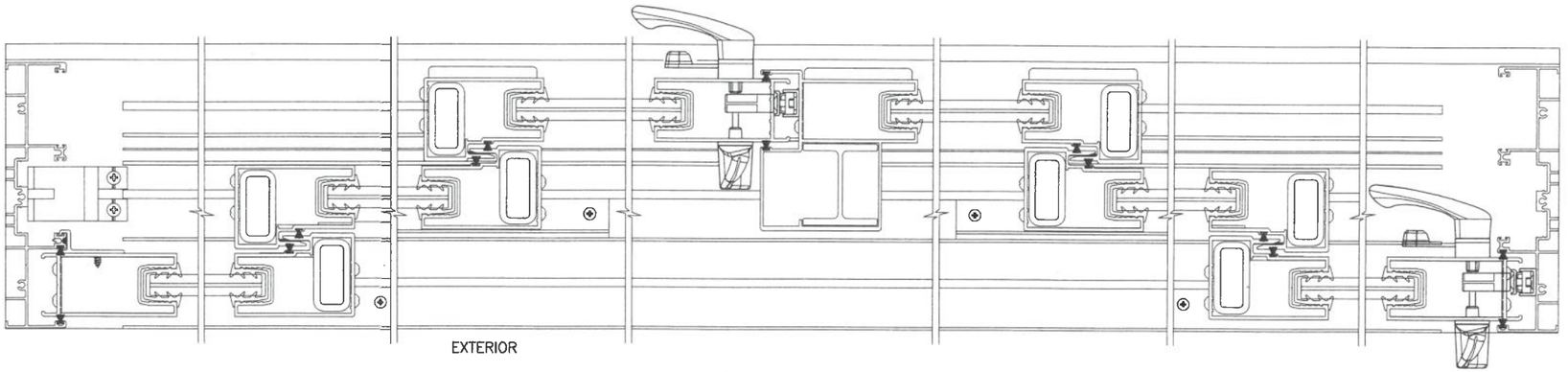
NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEET 4 AND ANCHOR INSTALLATION IN SHEET 5.





PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.18
Expiration Date 08/22/2029
By Ishaq I. Chanda
Miami–Dade Product Control





APPROVED CONFIGURATIONS

SEP 2 1 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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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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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
D	09.15.26		NO CHANGE THIS SHEET

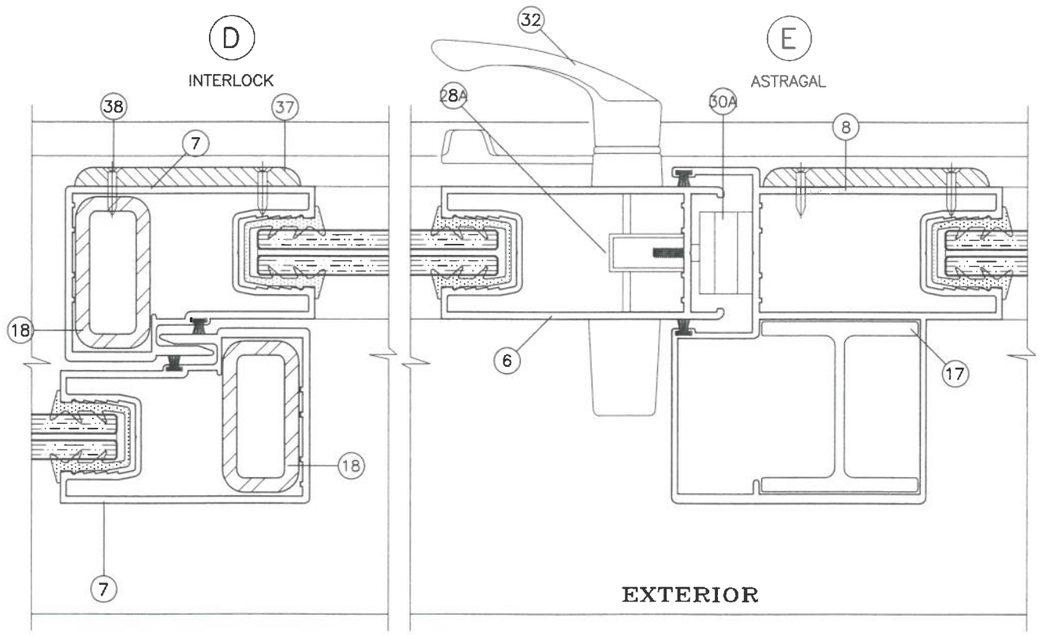
date: 03–09–18
scale: –
dr. by: TARIQ
chk. by:

drawing no. 18–40D

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
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Miami-Dade Product Control

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

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

SEP 2 1 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

afc
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		REV PER RER COMMENTS
B	06.25.21		EDITORIAL CHANGES
C	07.14.23		NO CHANGE THIS SHEET
D	09.15.26		UPDATED TO 2026 FBC

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

drawing no.
18-40D

HEAD ANCHOR LOAD CAPACITY – PSF

AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'A' 6 ANCHORS AT MTG. STILE ENDS INT. (–)	ANCHOR TYPE 'A' 7 ANCHORS AT MTG. STILE ENDS INT. (–)	ANCHOR TYPE 'B' 6 ANCHORS AT MTG. STILE ENDS INT. (–)	ANCHOR TYPE 'C' 6 ANCHORS AT MTG. STILE ENDS 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		110.0	110.0	110.0	110.0
60		110.0	110.0	110.0	110.0
30	96	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 INT. (–)	ANCHOR TYPE 'B' 5 ANCHORS AT MTG. STILE ENDS 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		110.0	110.0
60		110.0	110.0
30	96	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

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. 26-0924.18
Expiration Date 08/22/2029
By Ishaq I. Chanda
Miami–Dade Product Control

SEP 2 1 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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.

afc
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COMP–ANL\18–40D–ES

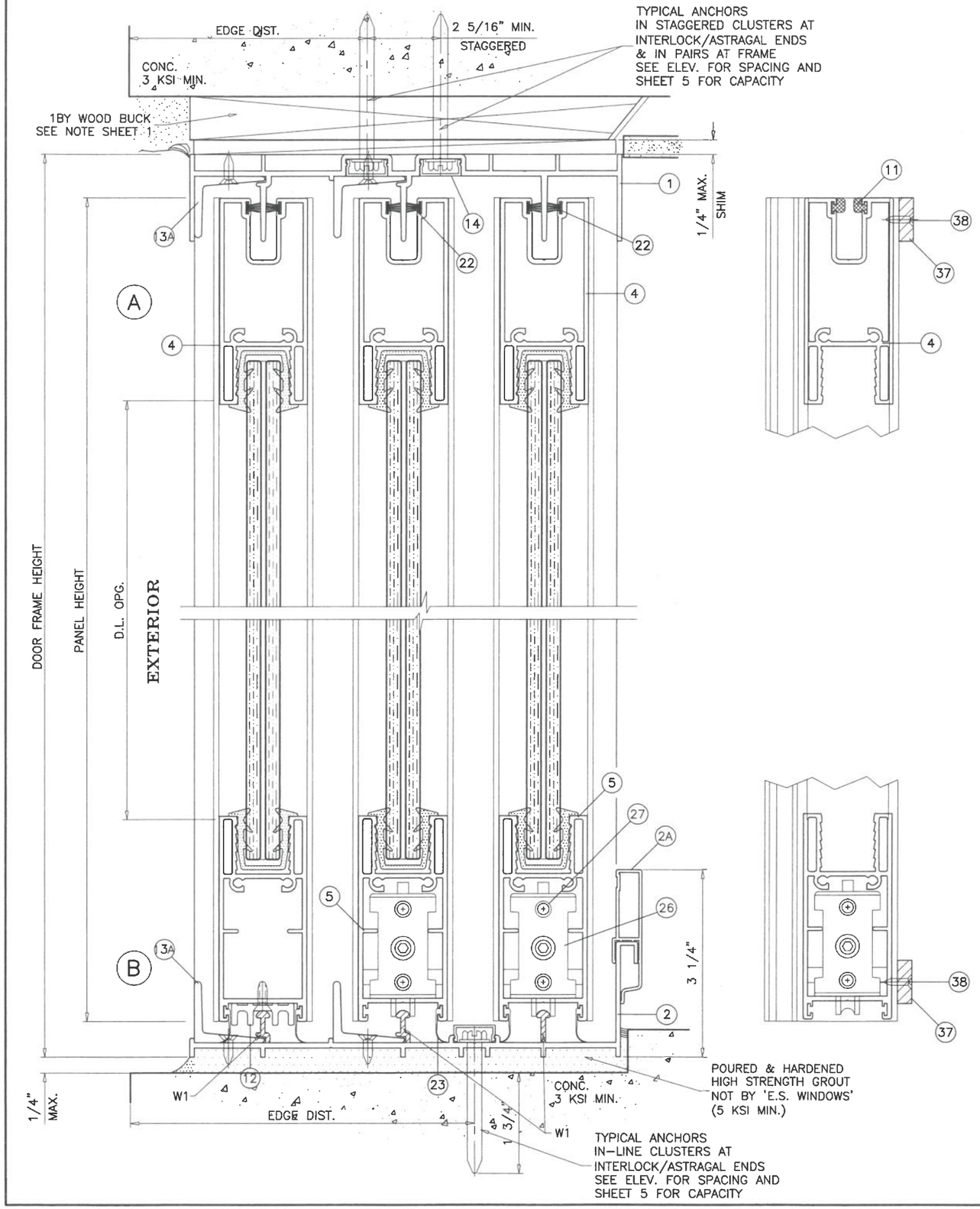
SERIES–6100–3 TRACK ALUM SLIDING GL. DOOR (S.M.I.)

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MIAMI, FL. 33142
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date: 03–09–18 | scale: – | dr. by: TARIQ | chk. by:

drawing no. 18–40D



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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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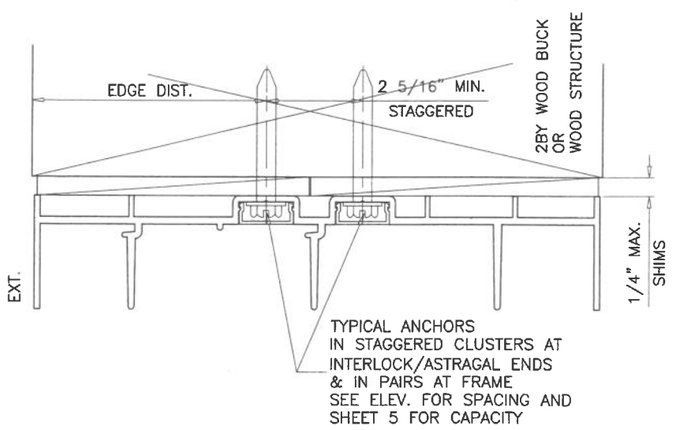
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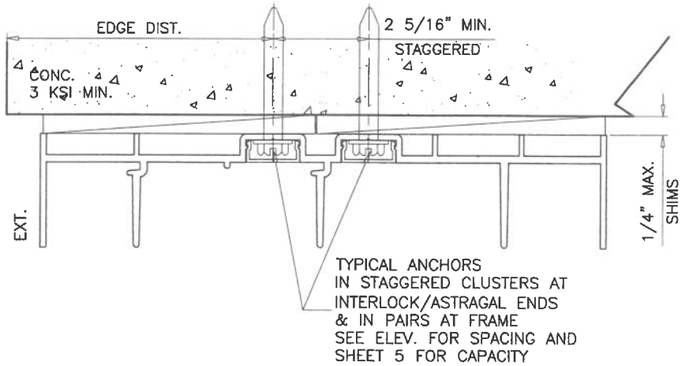
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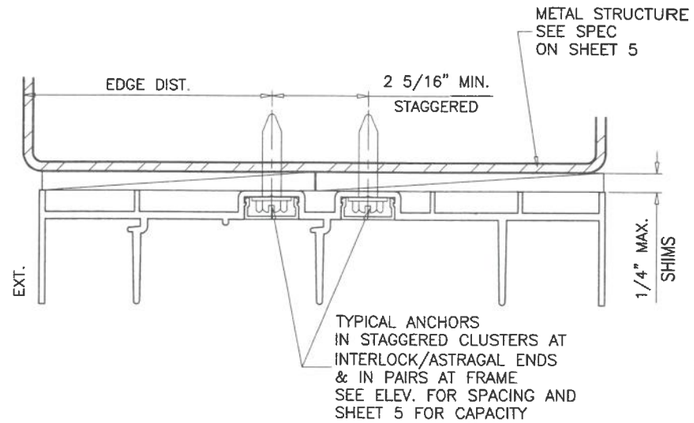
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chk. by:

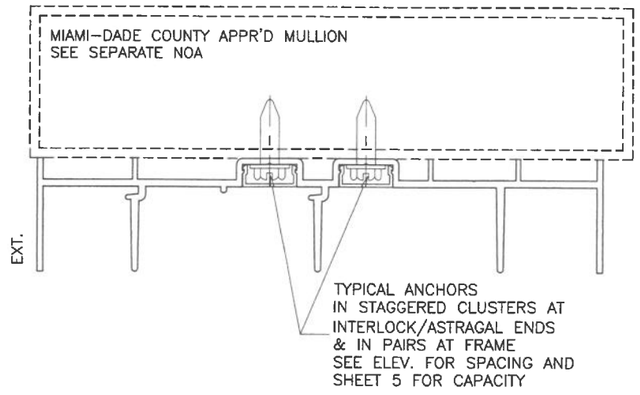
drawing no. 18-40D

sheet 6 of 12









PRODUCT REVISED
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By Ishaq I. Chanda
Miami-Dade Product Control

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.

SEP 2 1 2026

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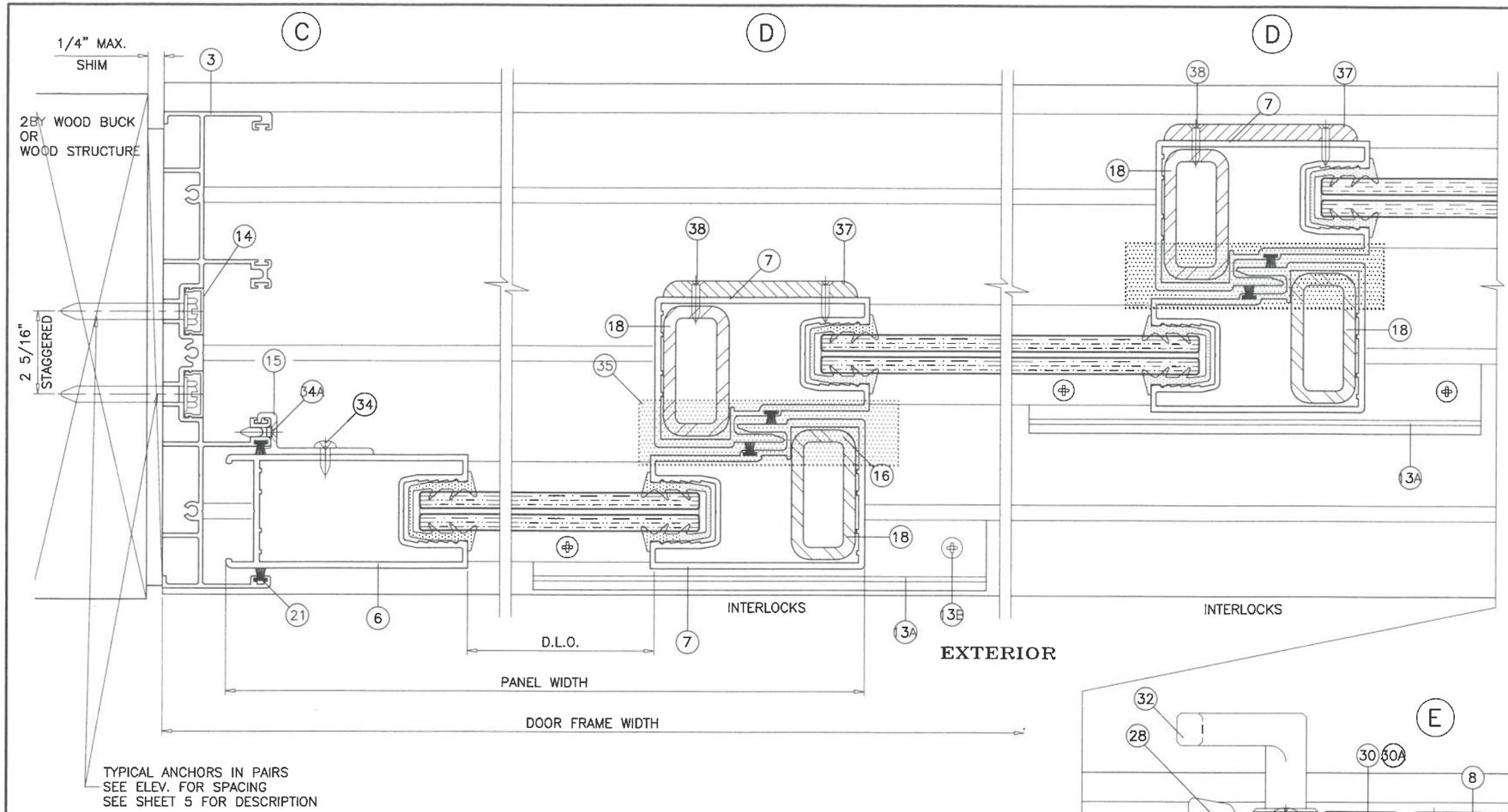
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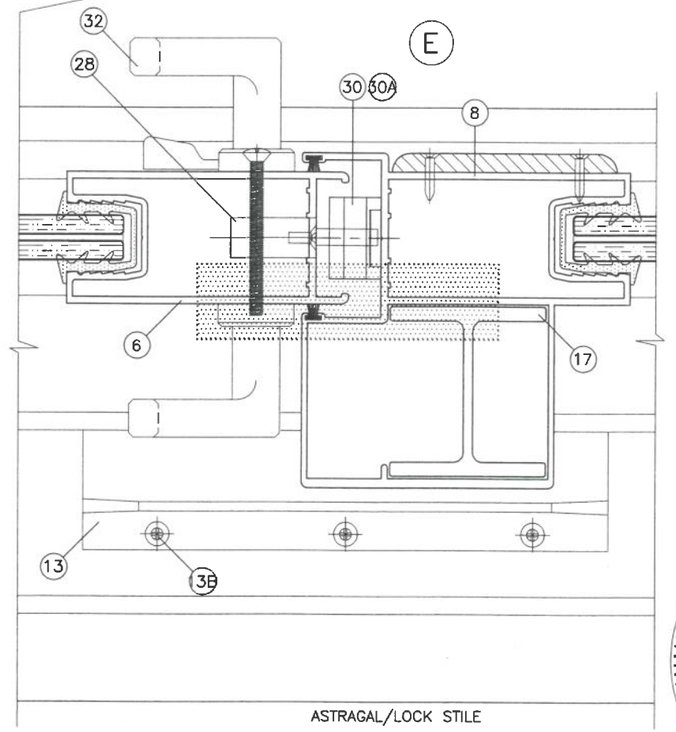
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chk. by:

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



ASTRAGAL/LOCK STILE

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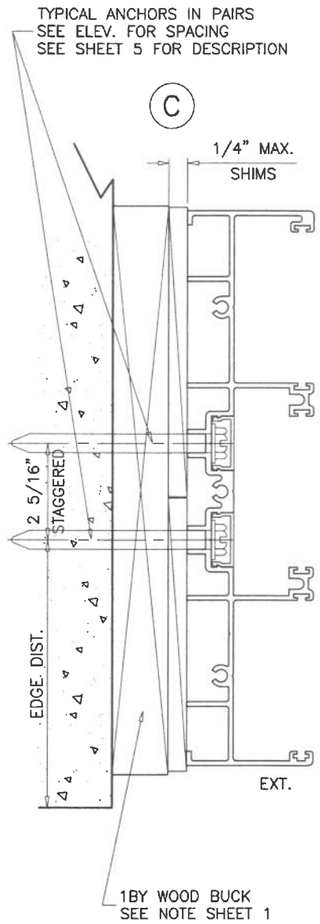
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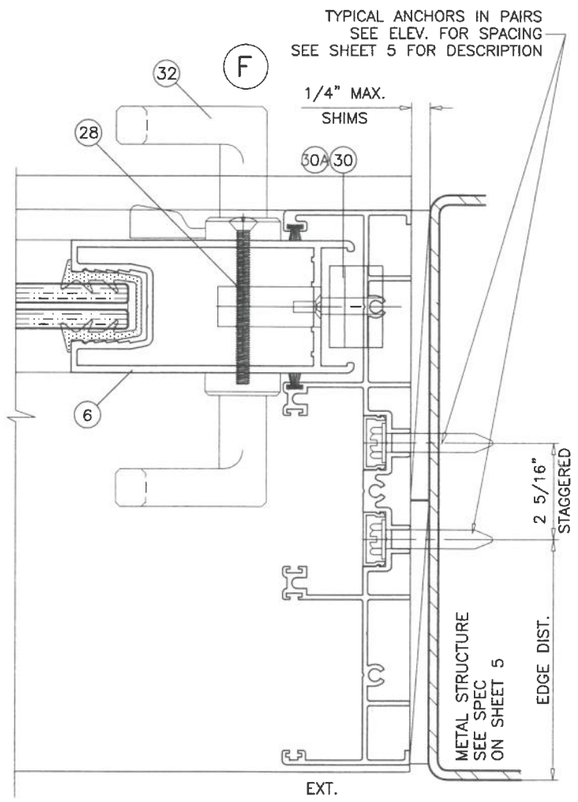
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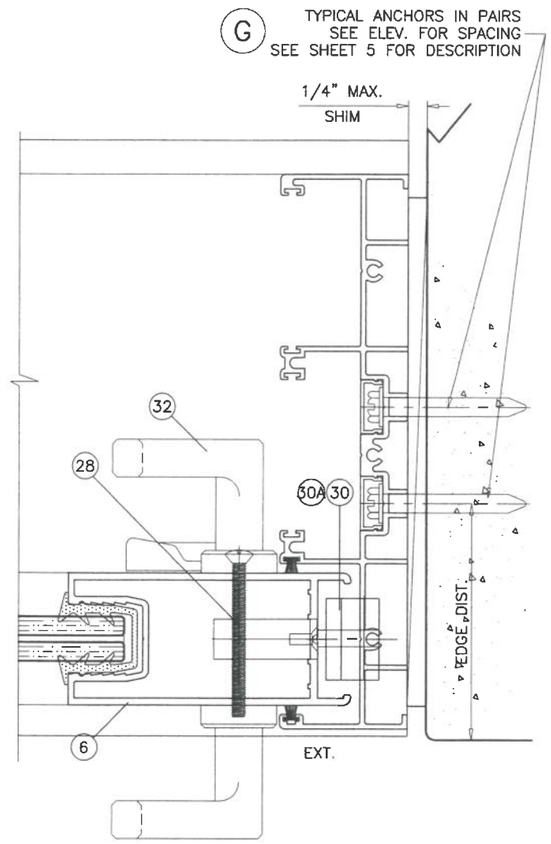
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sheet 8 of 12

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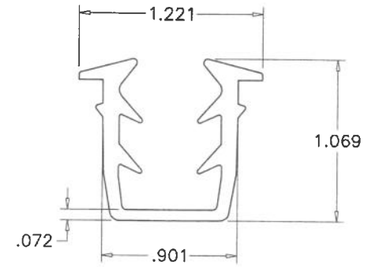
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chk. by:

drawing no. 18-40D

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
BRITTLENESS TEMPERATURE = -40° F
COMPRESSION SET = 27% (22h@158°F)

(10) GLAZING GASKET
SCALE 1:1

PRODUCT REVISED
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Expiration Date 08/22/2029
By Ishaq I. Chanda
Miami-Dade Product Control

SEP 2 1 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

afc

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

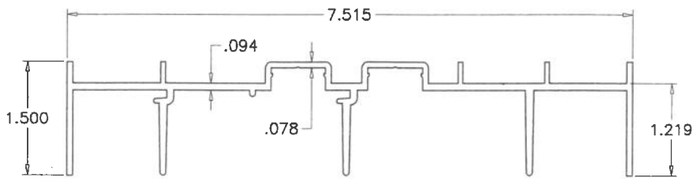
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C	07.14.23		NO CHANGE THIS SHEET
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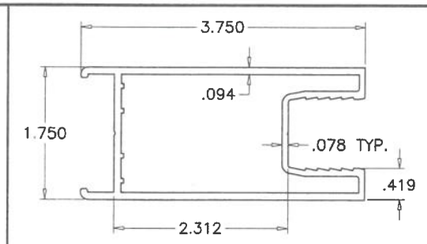
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chk. by:

drawing no. 18-40D

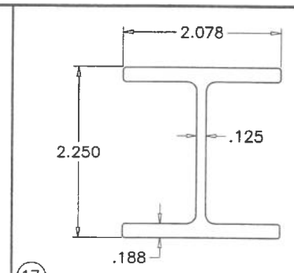
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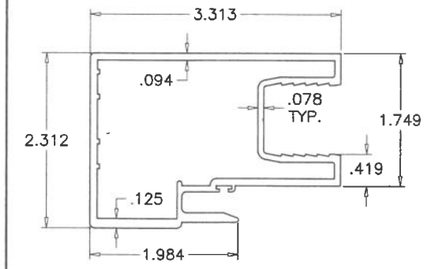
(1) FRAME HEAD



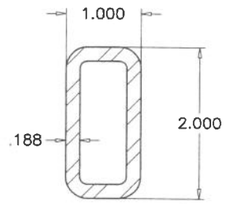
(6) LOCK STILE



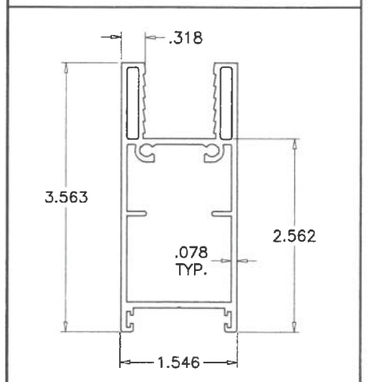
(17) ALUM. ASTRAGAL STIFFENER



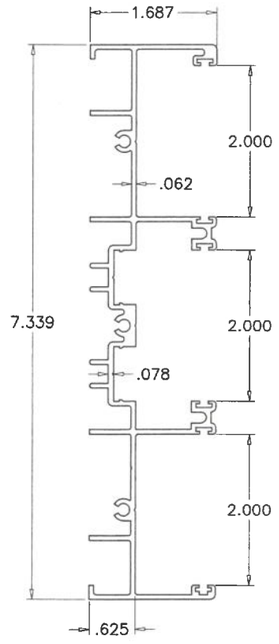
(7) INTERLOCK STILE



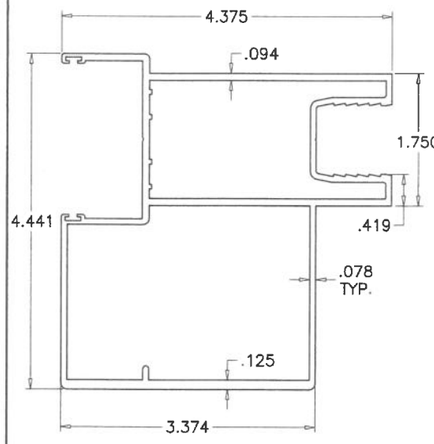
(18) STEEL INTERLOCK REINFORCING



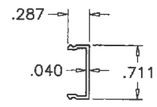
(4) PANEL TOP RAIL



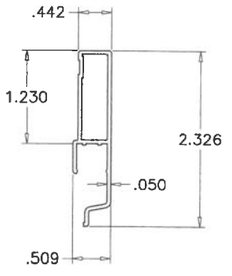
(3) FRAME JAMB



(8) ASTRAGAL STILE

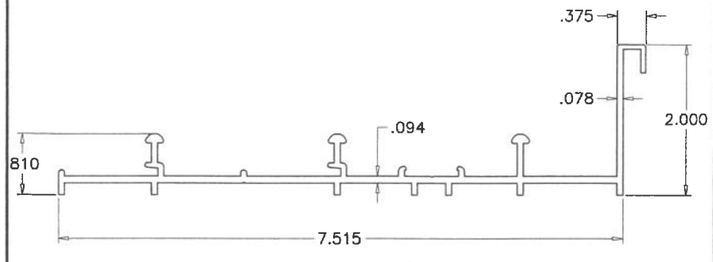


(14) SCREW COVER

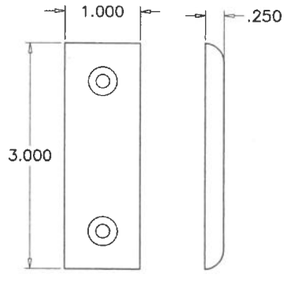


(2A) SILL RISER

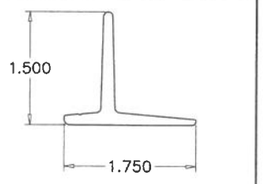
(5) PANEL BOTTOM RAIL



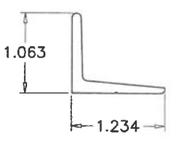
(2) FRAME SILL



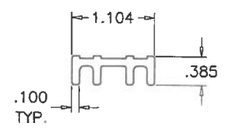
(37) RESTRAINING PLATE



(13) RETAINER CLIP



(13A) RETAINER CLIP



(12) FIX. PANEL BOTTOM CLIP

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Miami-Dade Product Control

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COMP-ANL\18-40D-ES

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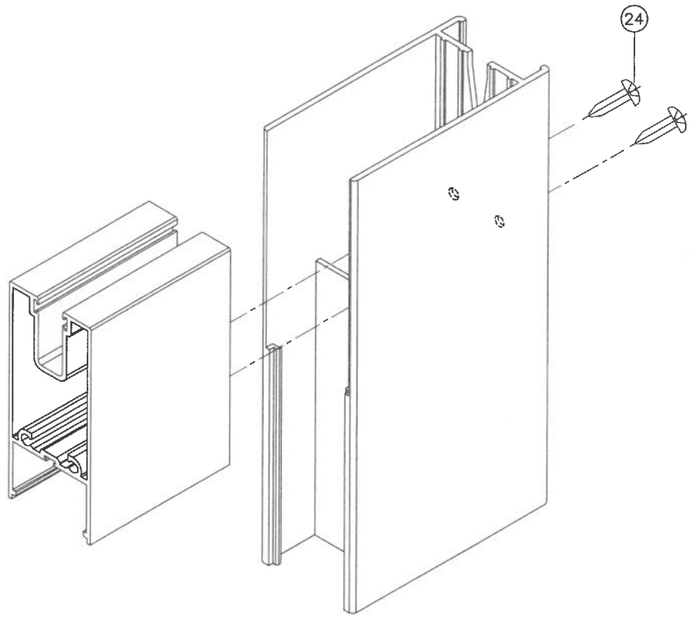
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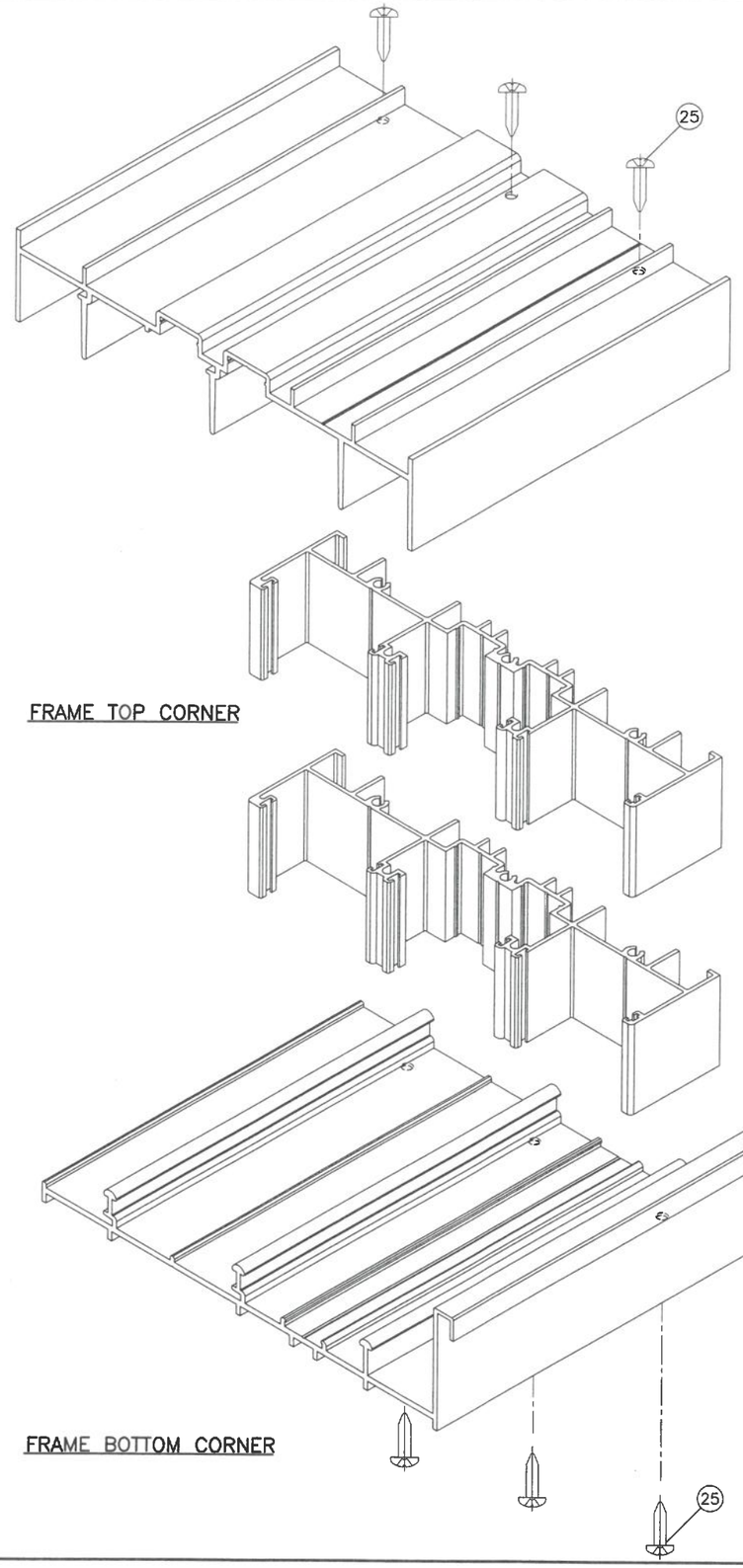
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chk. by:

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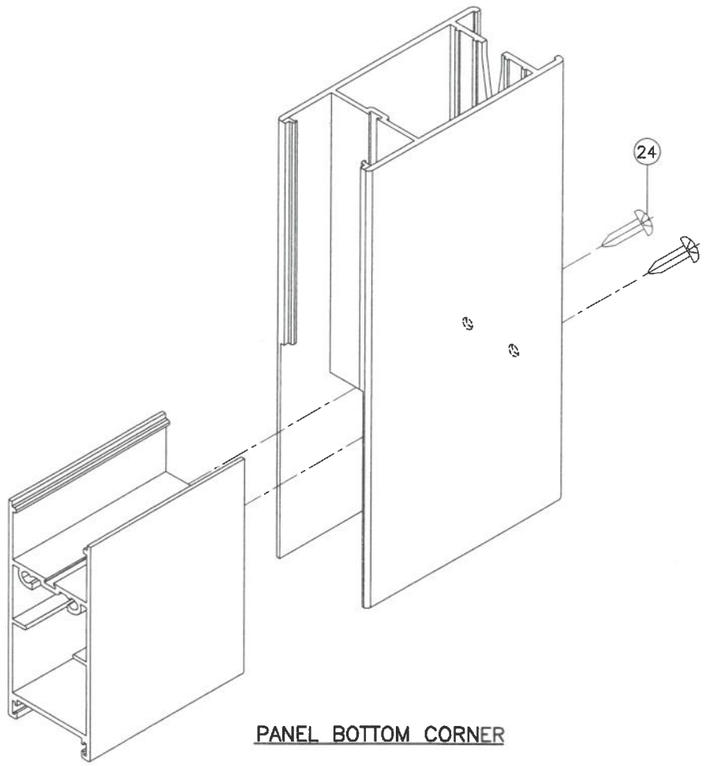
sheet 11 of 12



PANEL TOP CORNER



FRAME TOP CORNER



PANEL BOTTOM CORNER

FRAME BOTTOM CORNER

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