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 N. W. 49th 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 "**6500-3 Tracks"** Aluminum Sliding Glass Doors w/wo HR & w/wo reinforcements-**LMI**

APPROVAL DOCUMENT: Drawing No. **W17-78 Rev D,** titled "Series 6500 3-Track Alum Sliding GL. Door (LMI)", sheets 1 through 16 of 16 (include sheets 6.1 & 10.1), prepared by Al-Farooq Corporation, dated 08-30-17 and last revised on SEP 23, 2026, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations:

1. See SGD w/wo Head Receptor (HR) Design Pressures (DP) Vs. Reinforcements & glazing options in sheet **4**. See sheet **2** for SGD elevation without HR and anchors capacity charts in sheet **5** at Head & at sill. Lower DP controls.
2. See sheet **3** for SGD elevation w/ HR doors and Head/sill anchors capacity charts in sheet **5.** The max Exterior Positive DP not to exceed = **+120.0 PSF**, all the cases. See max frame area limitations in elevations sheet 2 & 3.
3. See sheet **6** (un-reinforced operable & Fixed panel) & **6.1** (re-inf exterior fixed panels & operable interior). See sheet **12** with free jamb installation for un-reinf & reinforced panels using sheets 6 & 6.1 door configurations. Corner anchors at head/sill, along with intermediate, per sheets 1 & 2 are required.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, BARRANQUILLA, COLOMBIA and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises** NOA #**23-0918.06** consist of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 and E-6, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approval

A. DRAWINGS

1. Manufacturer's die drawings and sections

2. Drawing No. **W17-78 Rev A,** titled "Series 6500 3-Track Alum Sliding GL. Door (LMI)", sheets 1 through 16 of 16 (include sheets 6.1 & 10.1), prepared by Al-Farooq Corporation, dated 08-30-17 and last revised on FEB 21, 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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of OXXXXO & XXX aluminum sliding glass door (3-tracks), prepared by Fenestration Testing Laboratories, Test Report No. **FTL-9548 (FTL 17096),** dated 06/06/2017, signed and sealed by Idalmis Ortega, P.E.

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

along with marked-up drawings and installation diagram of OXXO aluminum sliding glass door (2-tracks), prepared by Fenestration Testing Laboratories, Test Report No. **FTL-7130 (FTL 12093),** dated 04/05/13 and last revised on 09-12-13, signed and sealed by Marlin D. Brinson, P.E.

3. Additional 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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of OXXX aluminum SGD (2-tracks), prepared by Fenestration Testing Laboratories, Test Report No. **FTL- 6990(FTL12051),** dated 08/06/12, signed and sealed by Marlin D. Brinson, P.E.

4. Additional reference test report #**BT-ESW-15-005** (Items **#2**, #**3** & #**4** submitted under files #**15-0602.0**7 & #**13-0115.05**)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (**6th Edition**), prepared by Al Farooq Corporation, dated AUG 13, 2017, signed and sealed by Javad Ahmad, P.E.

2. Glazing complies w/ ASTME-1300-02, -04 & -09.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.13
Expiration Date: March 28, 2028
Approval Date: October 29, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

2. Notice of Acceptance No. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "Trofosil, ultra-clear & color" (former "Kuraray **Butacite PVB Interlayer**", expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (**6th Edition**) and letter of no financial interest, prepared by Al Farooq Corporation, dated 03-20-18, signed and sealed by Javad Ahmad, P.E.

2. Lab compliance as part of the above referenced test report.

G. OTHER

1. This 3-track NOA is supplemented by 2-Tracks Alum SGD from NOA(s) #**15-0602.0**7 & #**13-0115.05.**

2. ES Windows Distribution agreement -Energia Solar, S.A. and ES Windows, LLC, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General manager respectively on behalf of the companies.

3. Technical cut sheet data for EPDM, rubber compound by Solucionesencaucho, Columbia.

2. Evidence submitted previous approval

A. DRAWINGS

1. Drawing No. **W17-78 Rev B,** titled "Series 6500 3-Track Alum Sliding GL. Door (LMI)", sheets 1 through 16 of 16 (include sheets 6.1 & 10.1), prepared by Al-Farooq Corporation, dated 08-30-17 and last revised on NOV 10, 2020, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 11/10/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

D. QUALITY ASSURANCE

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

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.13
Expiration Date: March 28, 2028
Approval Date: October 29, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 05/09/19, expiring on 07/08/24**.**
2. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

D. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated 11/16/20, 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 NOA No. 17-0505.02,** expiring 03/28/23.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.13
Expiration Date: March 28, 2028
Approval Date: October 29, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted previous approval

A. DRAWINGS

1. Drawing No. **W17-78 Rev B,** titled "Series 6500 3-Track Alum Sliding GL. Door (LMI)", sheets 1 through 16 of 16 (include sheets 6.1 & 10.1), prepared by Al-Farooq Corporation, dated 08-30-17 and last revised on NOV 10, 2020, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None **(**submitted in previous approval**).**

C. CALCULATIONS (submitted in previous approval**).**

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **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. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated 12/16/22, 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 **renews NOA No. 20-1118.08,** expiring 03/28/28.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.13
Expiration Date: March 28, 2028
Approval Date: October 29, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Evidence submitted previous approval

A. DRAWINGS

1. Drawing No. **W17-78 Rev C,** titled "Series 6500 3-Track Alum Sliding GL. Door (LMI)", sheets 1 through 16 of 16 (include sheets 6.1 & 10.1), prepared by Al-Farooq Corporation, dated 08-30-17 and last revised on SEP 15, 2023, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None **(**submitted in previous approval**).**

C. CALCULATIONS (submitted in previous approval**).**

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **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. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 09/15/23, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

2. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated 12/16/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. .(submitted under previous approval).

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** NOA #**22-1220.07** and updates to FBC 2023**,** expiring 03/28/28.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.13
Expiration Date: March 28, 2028
Approval Date: October 29, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. New Evidence

A. DRAWINGS

1. Drawing No. **W17-78 Rev D,** titled "Series 6500 3-Track Alum Sliding GL. Door (LMI)", sheets 1 through 16 of 16 (include sheets 6.1 & 10.1), prepared by Al-Farooq Corporation, dated 08-30-17 and last revised on SEP 23, 2026, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None **(**submitted in previous approval**).**

C. CALCULATIONS (submitted in previous approval**).**

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **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. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 09/15/23, 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** NOA #**23-0918.06** and updates to FBC 2023**,** expiring 03/28/28.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.13
Expiration Date: March 28, 2028
Approval Date: October 29, 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.

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.

DAYLITE OPENINGS WIDTHS:
FIXED STILE–INTERLOCK = PANEL WIDTH – 7.437"
INTERLOCK–ASTRAGAL = PANEL WIDTH – 6.375"
LOCK STILE–INTERLOCK = PANEL WIDTH – 7.187"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT – 7.375"

PANEL HEIGHT = DOOR FRAME HEIGHT – 1.750" (W/O RECEPTOR)
PANEL HEIGHT = OVERALL HEIGHT – 3.500" (WITH RECEPTOR)

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 DETERMINE DOOR CAPACITY FROM TABLES ON SHEET 4 FOR THE GLASS TYPE AND REINFORCING TO USE.

STEP 3 USING CHARTS ON SHEET 5 FOR HEAD (WITH OR W/O RECEPTOR) AND SILL ANCHORS SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 4 THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

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

SERIES ES–6500–3 TRACK ALUMINUM SLIDING GLASS DOOR

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.

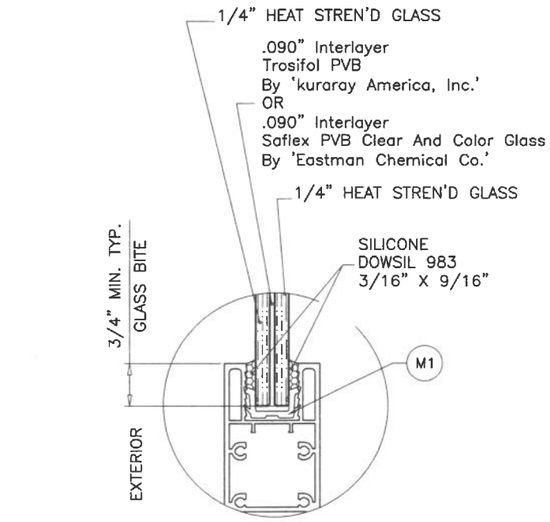
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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.

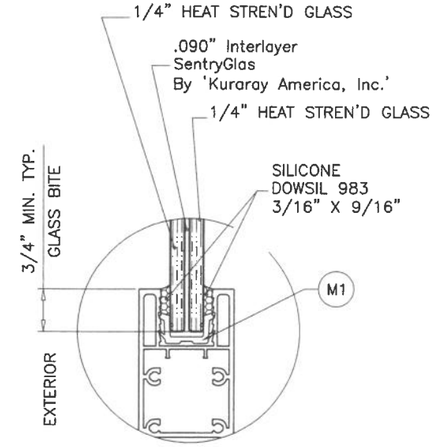
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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



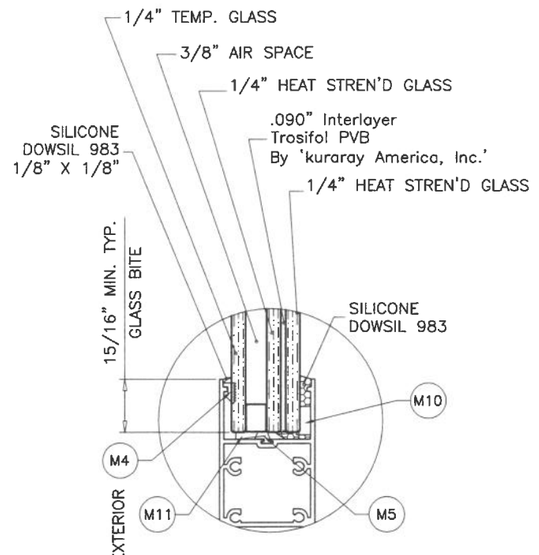
GLASS TYPE 'A'

9/16" OVERALL LAMINATED GLASS



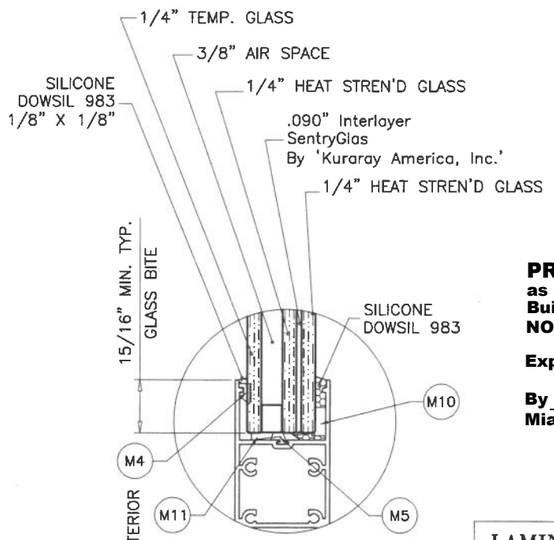
GLASS TYPE 'B'

9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'AI'

1–1/4" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'BI'

1–1/4" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami–Dade Product Control

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT
3 TRACK SGD SYSTEM

SEP 2 3 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\W17–78ESW

SERIES ES–6500–3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

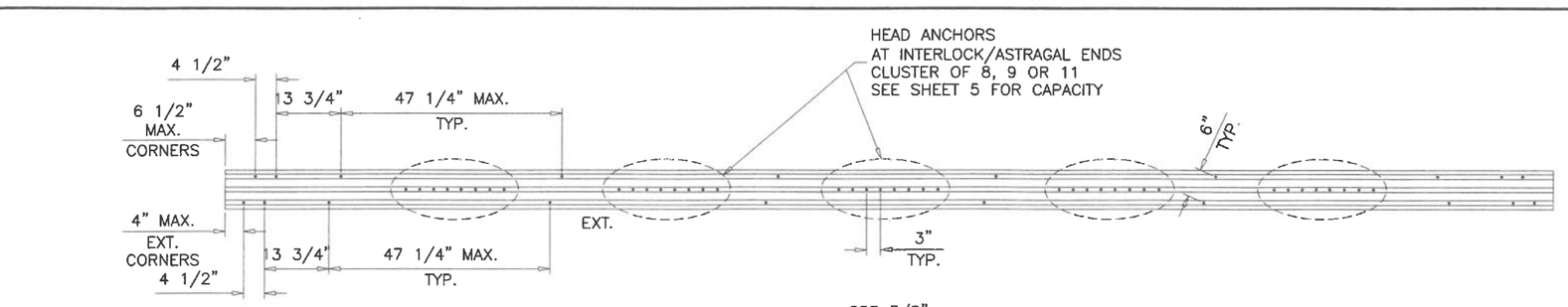
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

revisions:

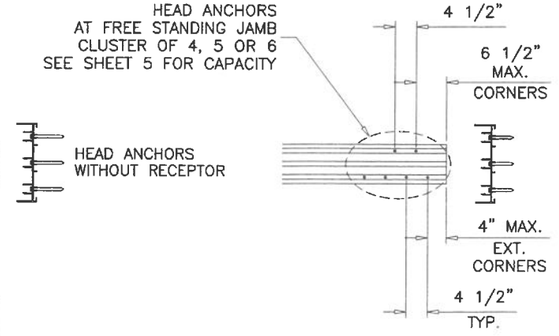
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B	11.06.20		UPDATED TO 2020 FBC
C	09.12.23		UPDATED TO 2023 FBC
D	09.21.26		UPDATED TO 2026 FBC

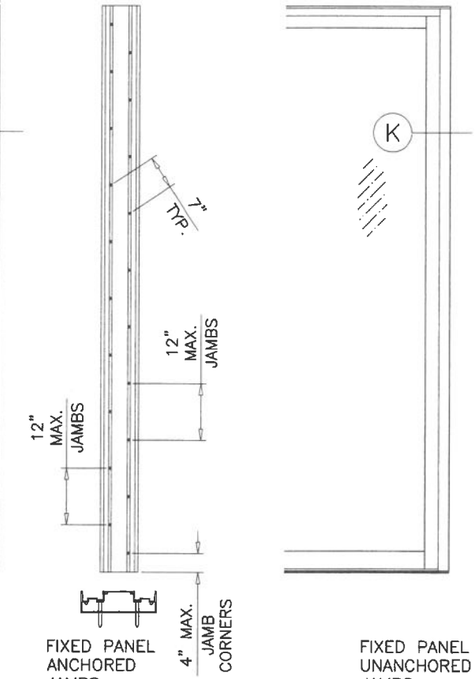
date: 08–30–17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

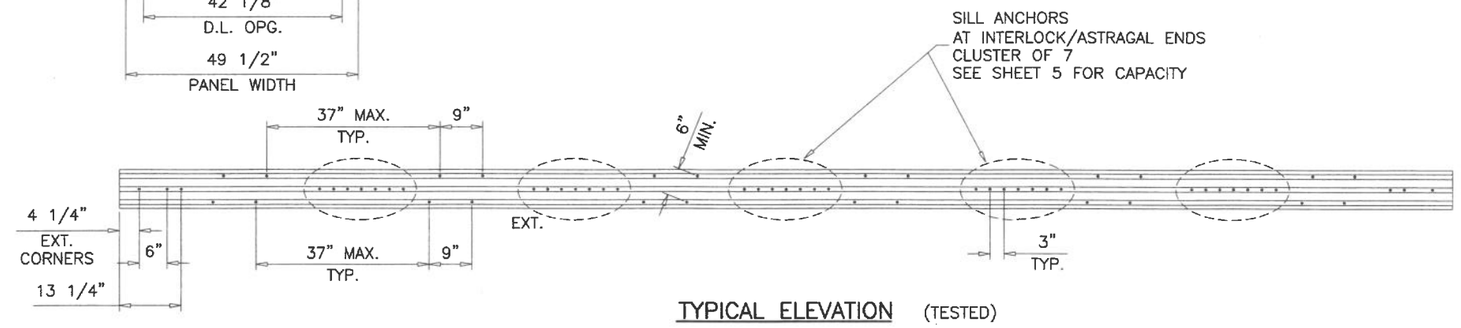
drawing no. W17–78

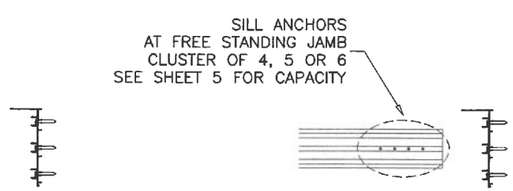


PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami–Dade Product Control









TYPICAL ELEVATION (TESTED)

OXX–XXO (DOORS WITHOUT HEAD RECEPTOR)

MAX. FRAME AREA NOT TO EXCEED 236.1 SQ. FT.

SEP 2 3 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\W17–78ESW

SERIES ES–6500–3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

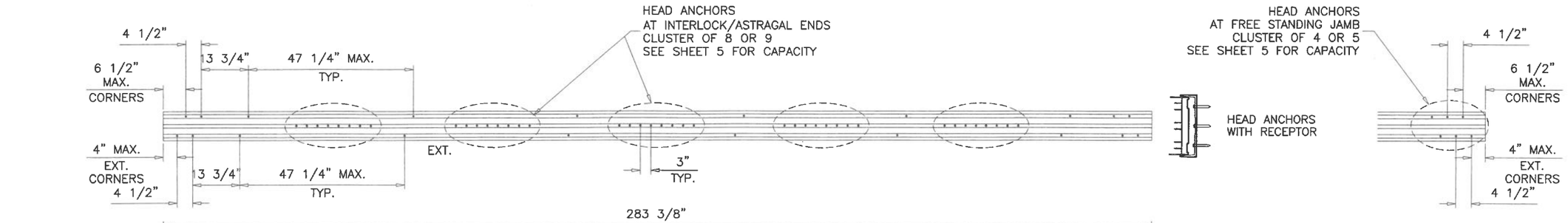
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5158 FAX. (305) 638–5151

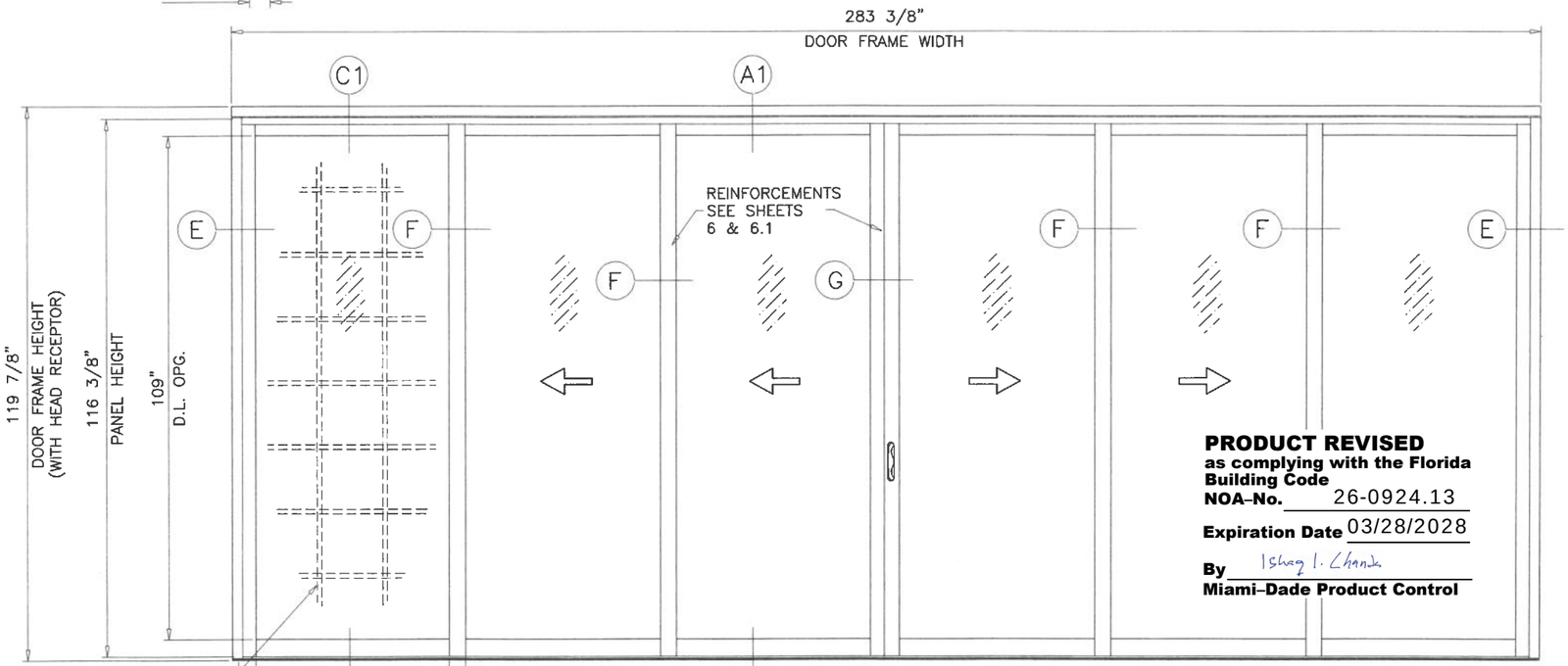
revisions:			
no	date	by	description
A	11.13.17		REV. PER RER COMMENTS
B	11.06.20		UPDATED TO 2020 FBC
C	09.12.23		NO CHANGE THIS SHEET
D	09.21.26		NO CHANGE THIS SHEET

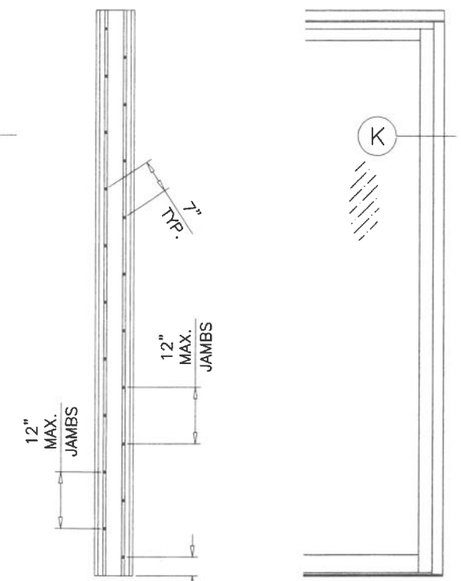
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dr. by: TARIQ
chk. by:

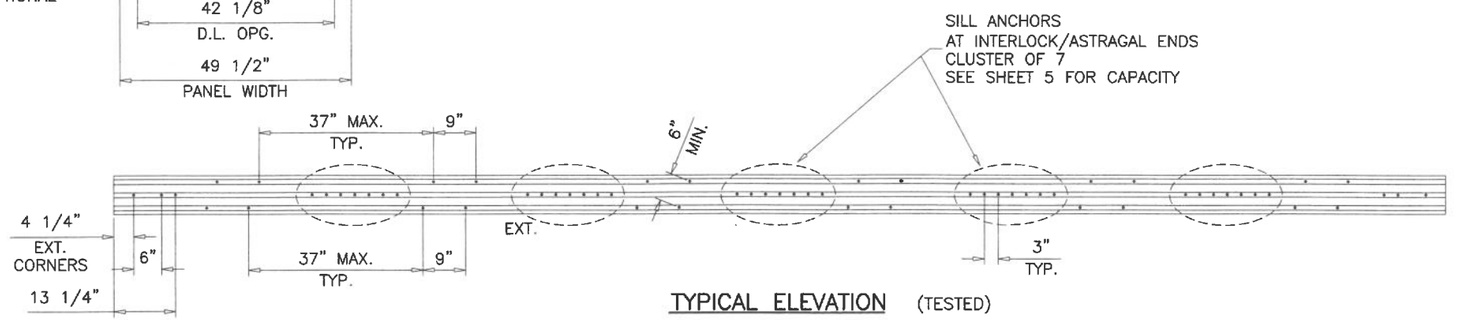
drawing no. W17–78

sheet 2 of 16









PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami-Dade Product Control

TYPICAL ELEVATION (TESTED)

OXX-XXO (DOORS WITH HEAD RECEPTOR)

MAX. FRAME AREA NOT TO EXCEED 235.9 SQ. FT.

SEP 23 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\W17-78ESW

SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

E.S. WINDOWS, LLC
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MIAMI, FL. 33142
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date: 08-30-17
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. W17-78

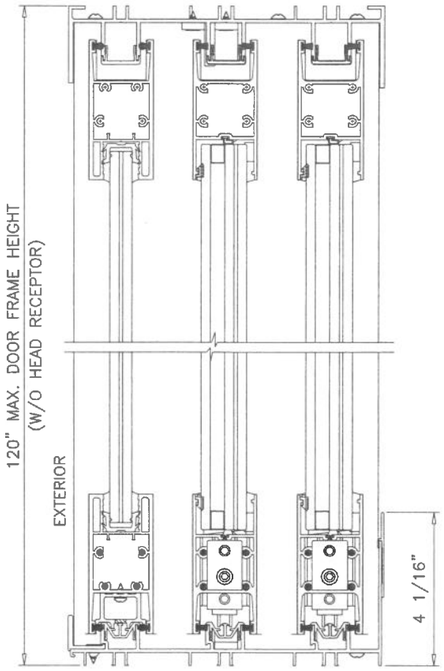
sheet 3 of 16

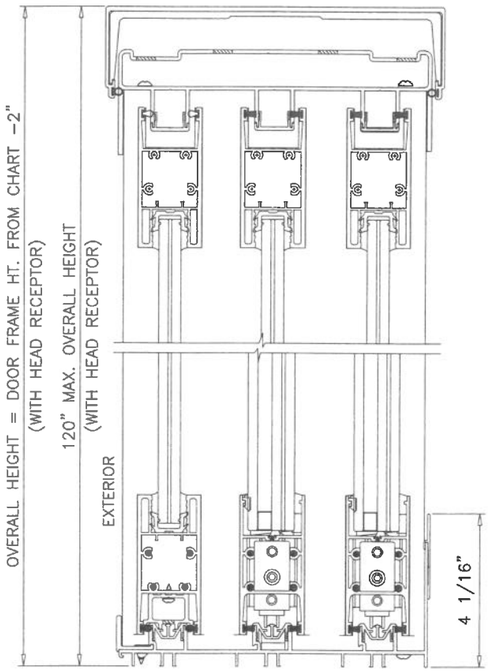
DESIGN LOAD CAPACITY – PSF (WITH OR WITHOUT HEAD RECEPTOR)							
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	WITHOUT REINFORCING				WITH REINFORCING	
		GLASS 'A' & 'A1'		GLASS 'B' & 'B1'		GLASS 'B' & 'B1'	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	82	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	85.0	85.0	85.0	120.0	135.0
48		85.0	85.0	85.0	85.0	120.0	135.0
54		75.6	75.6	75.6	75.6	106.7	120.0
60		–	–	68.0	68.0	96.0	108.0
36	84	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	85.0	85.0	85.0	120.0	135.0
48		85.0	85.0	85.0	85.0	120.0	135.0
54		75.6	75.6	75.6	75.6	106.7	120.0
60		–	–	68.0	68.0	96.0	108.0
36	90	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	85.0	85.0	85.0	120.0	135.0
48		85.0	85.0	85.0	85.0	120.0	135.0
54		–	–	75.6	75.6	106.7	120.0
60		–	–	68.0	68.0	96.0	108.0
36	96	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	85.0	85.0	85.0	120.0	135.0
48		85.0	85.0	85.0	85.0	120.0	135.0
54		–	–	75.6	75.6	106.7	120.0
60		–	–	68.0	68.0	96.0	108.0
36	102	–	–	85.0	85.0	120.0	135.0
42		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0
54		–	–	75.6	75.6	106.7	120.0
36	108	–	–	85.0	85.0	120.0	135.0
42		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0
36	114	–	–	85.0	85.0	120.0	135.0
42		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0
36	120	–	–	85.0	85.0	120.0	135.0
42		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0

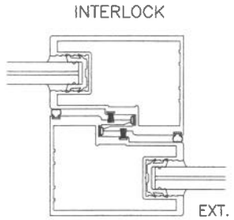
CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.
FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART – 2".

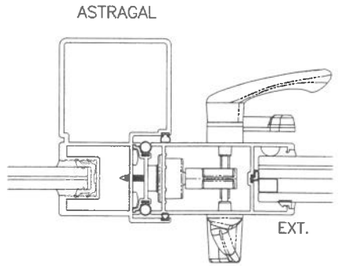
DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

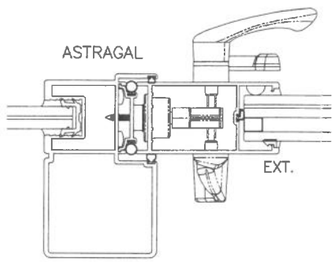
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05–DEC–219



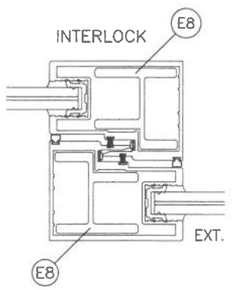


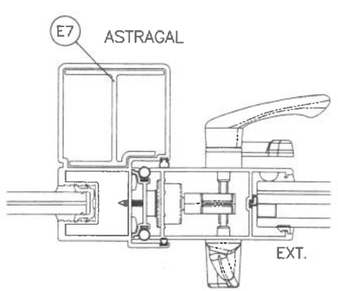


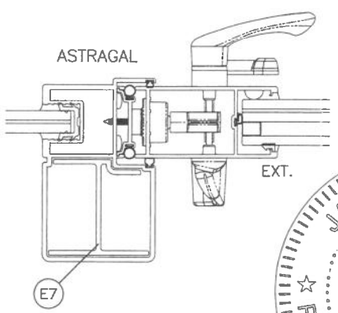




WITHOUT REINFORCING







WITH REINFORCING

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NOA–No. 26-0924.13
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Miami–Dade Product Control

SEP 2 3 2026

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date: 08–30–17
scale: –
dr. by: TARIQ
chk. by:

drawing no. W17–78

sheet 4 of 16

HEAD ANCHOR LOAD CAPACITY – PSF
(DOORS WITHOUT HEAD RECEPTOR)
(APPLICABLE TO SHEET 2 ELEVATION)

ANCHOR TYPE		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'						ANCHOR 'C'
SHIM SPACE		1/4" SHIM	3/8" MAX. SHIM		1/4" SHIM	3/8" MAX. SHIM		1/2" MAX. SHIM			3/8" SHIM
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	9 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	9 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	9 ANCHORS AT MTG. STILE ENDS	11 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	82	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	84	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	90	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	131.1	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	96	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	128.5	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	114.2	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	102.8	108.0	108.0	108.0
36	102	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	120.9	133.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	107.5	118.3	120.0	120.0
36	108	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	130.5	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	114.2	125.6	135.0	135.0
36	114	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	123.7	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	108.2	119.0	135.0	135.0
36	118–1/8	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	119.4	131.3	135.0	135.0
48		135.0	132.6	135.0	135.0	132.6	135.0	104.4	114.9	135.0	135.0
36	120	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	117.5	129.2	135.0	135.0
48		135.0	130.6	135.0	135.0	130.6	135.0	102.8	113.1	133.6	135.0
		4 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	6 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STANDING JAMB ENDS

CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.

LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX. FOR REINFORCED SGD SYSTEM PER SHEETS 4 & 6
LIMIT ALL EXT./INT. LOADS TO ±85.0 PSF MAX. FOR UN–REINFORCED SGD SYSTEM PER SHEETS 4 & 6.1

HEAD ANCHOR LOAD CAPACITY – PSF
(DOORS WITH HEAD RECEPTOR)
(APPLICABLE TO SHEET 3 ELEVATION)

ANCHOR TYPE		ANCHOR TYPE 'D'	
SHIM SPACE		1/4" MAX. SHIM	
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	8 ANCHORS AT MTG. STILE ENDS	9 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	82	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	84	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	90	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	96	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	102	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
36	108	135.0	135.0
42		135.0	135.0
48		135.0	135.0
36	114	135.0	135.0
42		135.0	135.0
48		134.0	135.0
36	118–1/8	135.0	135.0
42		135.0	135.0
48		134.0	135.0
36	119–7/8	135.0	135.0
42		135.0	135.0
48		126.0	135.0
		4 ANCHORS AT FREE STANDING JAMB ENDS	5 ANCHORS AT FREE STANDING JAMB ENDS

SILL ANCHOR LOAD CAPACITY – PSF
(APPLICABLE TO DOORS WITH OR W/O HEAD RECEPTOR)

ANCHOR TYPE		ANCHOR 'BB'
SHIM SPACE		1/4" SHIM
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	7 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)
36	82	135.0
42		135.0
48		135.0
54		120.0
60		108.0
36	84	135.0
42		135.0
48		135.0
54		120.0
60		108.0
36	90	135.0
42		135.0
48		135.0
54		120.0
60		108.0
36	96	135.0
42		135.0
48		135.0
54		120.0
60		108.0
36	102	135.0
42		135.0
48		135.0
54		120.0
36	108	135.0
42		135.0
48		135.0
36	114	135.0
42		135.0
48		135.0
36	118–1/8	135.0
42		135.0
48		135.0
36	120	135.0
42		135.0
48		135.0
		4 ANCHORS AT FREE STANDING JAMB ENDS

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as complying with the Florida Building Code
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Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami–Dade Product Control

SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ABOVE FOR HEAD AND SILL ANCHOR CAPACITY.

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

SEP 2 3 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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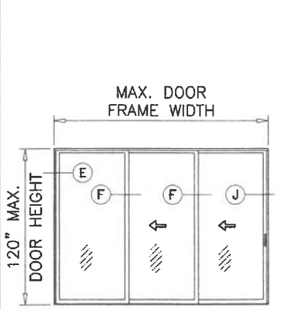
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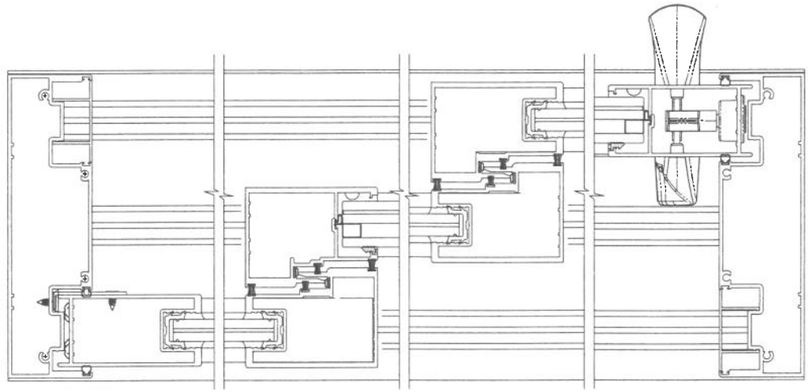
date: 08–30–17
scale: –
dr. by: TARIQ
chk. by:

drawing no. W17–78

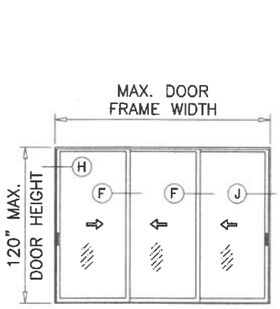
sheet 5 of 16



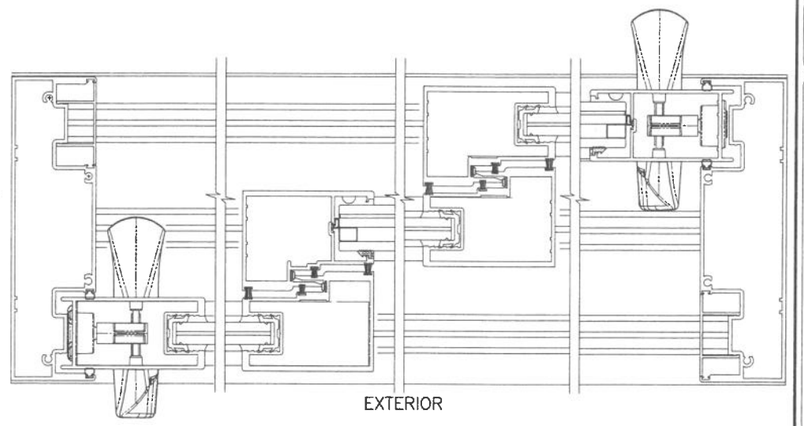
OXX (SHOWN)
XXO



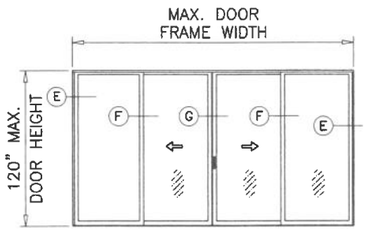
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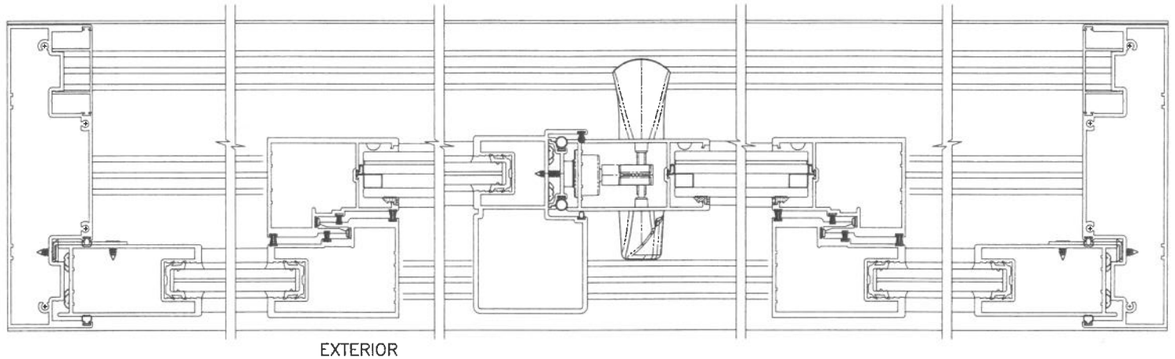
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EXTERIOR



OX–XO (SHOWN)
OX–XX
XX–XO
XX–XX

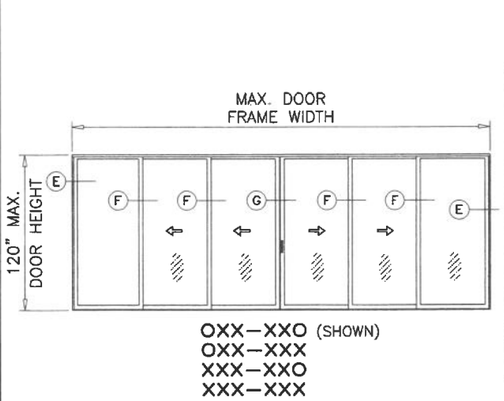


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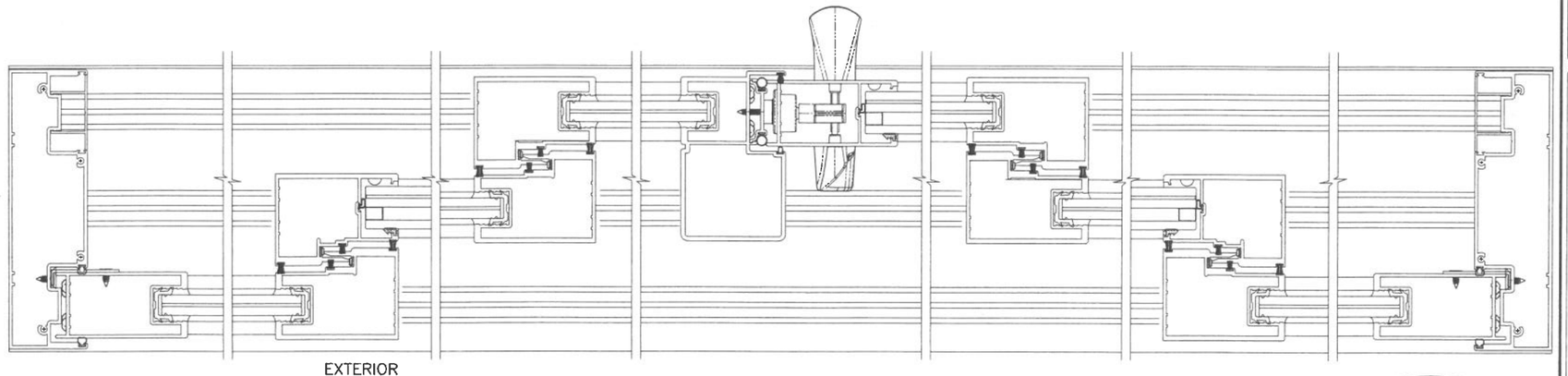
NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 4.
3. FOR ANCHOR DETAILS SEE SHEETS 7 THRU 11.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami-Dade Product Control



OXX–XXO (SHOWN)
OXX–XXX
XXX–XXO
XXX–XXX



EXTERIOR

3–TRACKS UN–REINFORCED S.G.D.

APPROVED CONFIGURATIONS

MAX. 6 PANELS OR LESS
MAX. FRAME AREA NOT TO EXCEED 236.1 SQ. FT. (DOORS WITHOUT HEAD RECEPTORS)
MAX. FRAME AREA NOT TO EXCEED 235.9 SQ. FT. (DOORS WITH HEAD RECEPTORS)

SEP 2 3 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\W17-78ESW

SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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

revisions:

no	date	by	description
A	11.13.17		REV. PER RER COMMENTS
B	11.06.20		UPDATED TO 2020 FBC
C	09.12.23		NO CHANGE THIS SHEET
D	09.21.26		NO CHANGE THIS SHEET

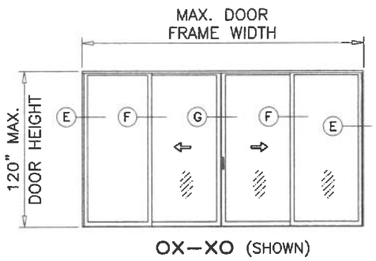
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dr. by: TARIQ
chk. by:

drawing no. W17-78

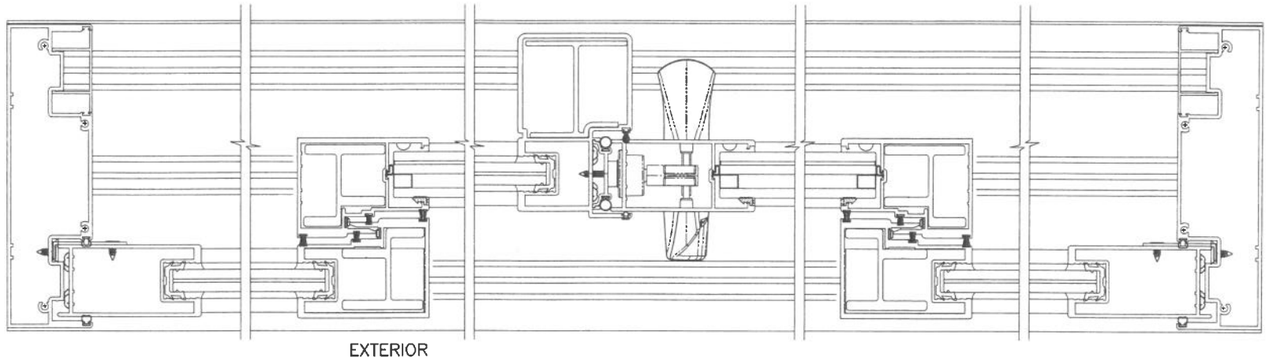
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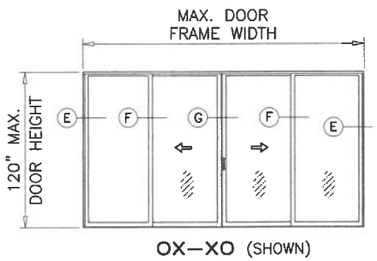
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 4.
3. FOR ANCHOR DETAILS SEE SHEETS 7 THRU 11.



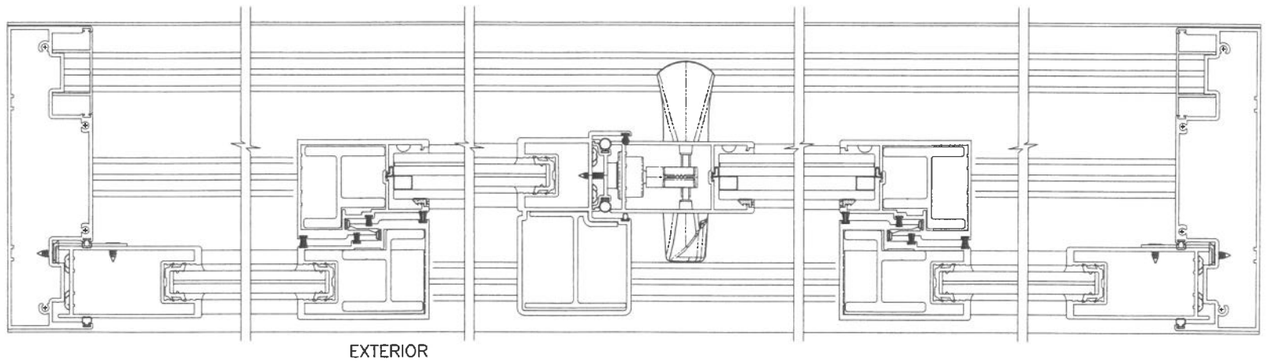
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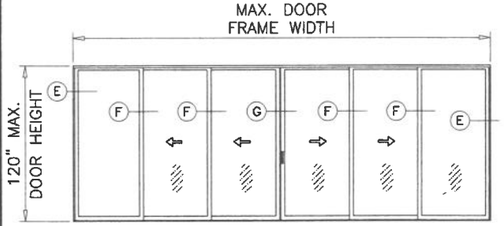
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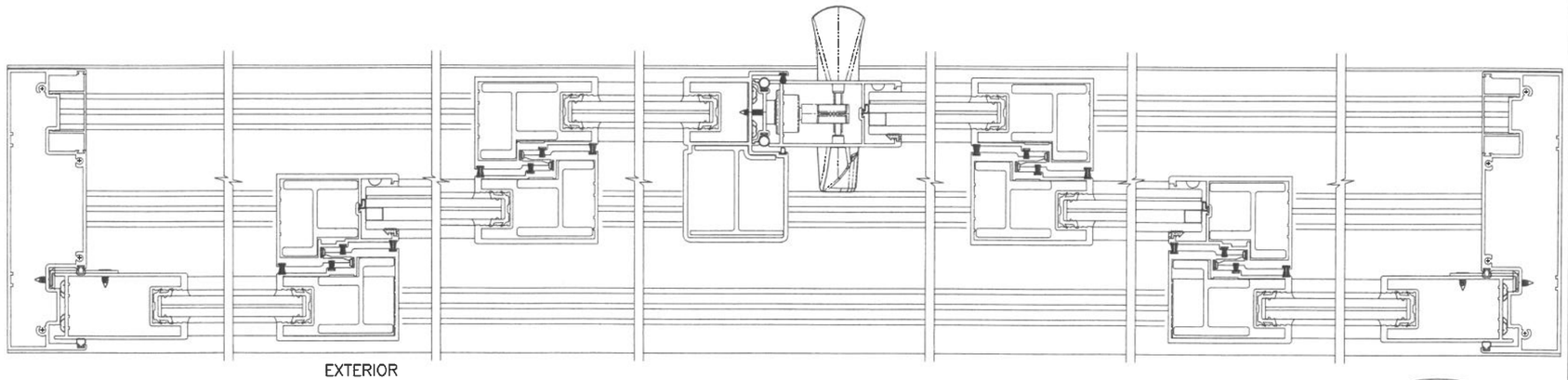
OX–XO (SHOWN)



EXTERIOR



OXX–XXO (SHOWN)



EXTERIOR

3–TRACKS REINFORCED S.G.D.

APPROVED CONFIGURATIONS

MAX. 6 PANELS OR LESS
MAX. FRAME AREA NOT TO EXCEED 236.1 SQ. FT. (DOORS WITHOUT HEAD RECEPTORS)
MAX. FRAME AREA NOT TO EXCEED 235.9 SQ. FT. (DOORS WITH HEAD RECEPTORS)

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami–Dade Product Control

SEP 2 3 2026

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AL-FAROOQ CORPORATION
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COMP–ANL\W17–78ESW

SERIES ES–6500–3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

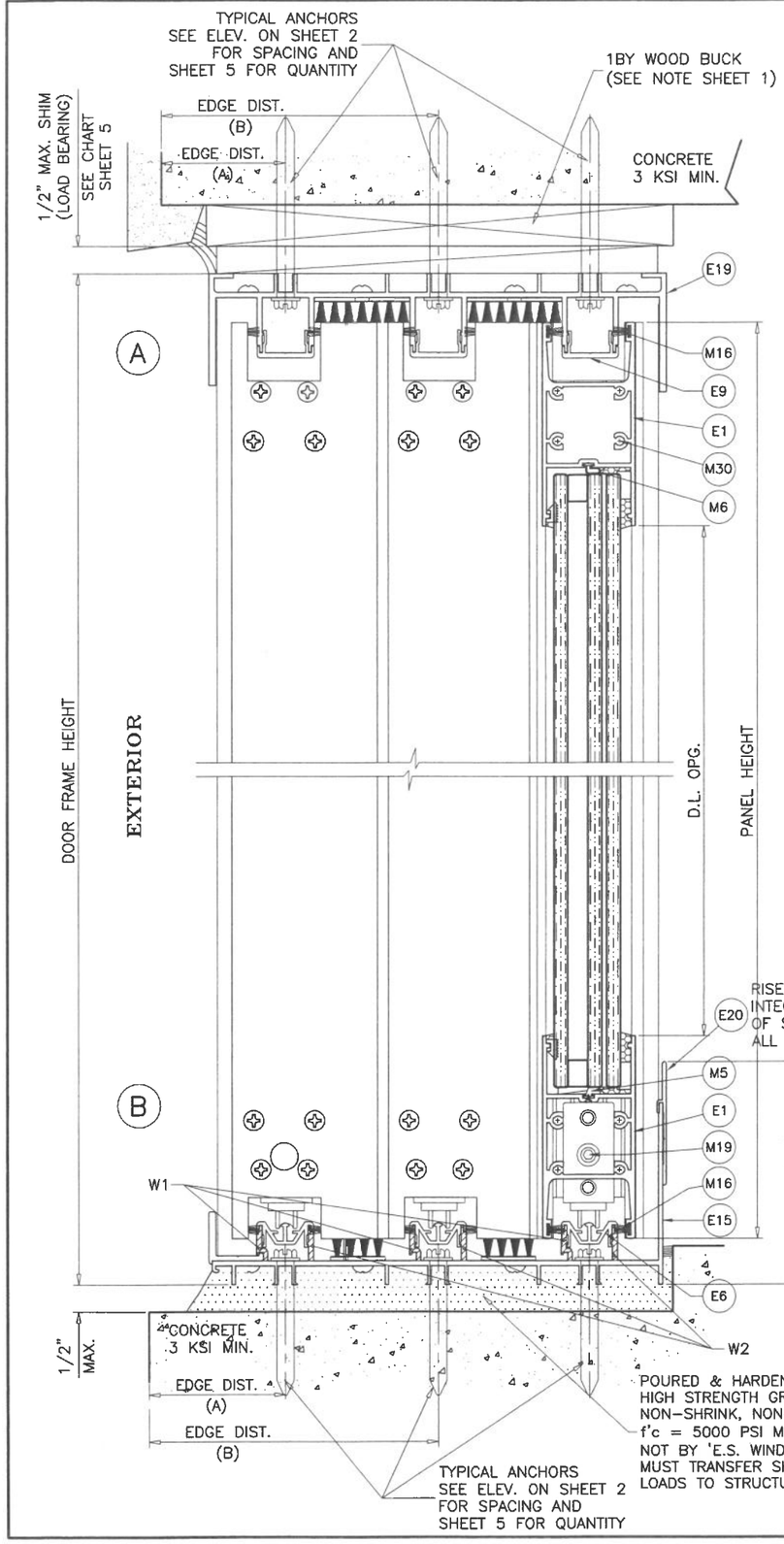
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3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

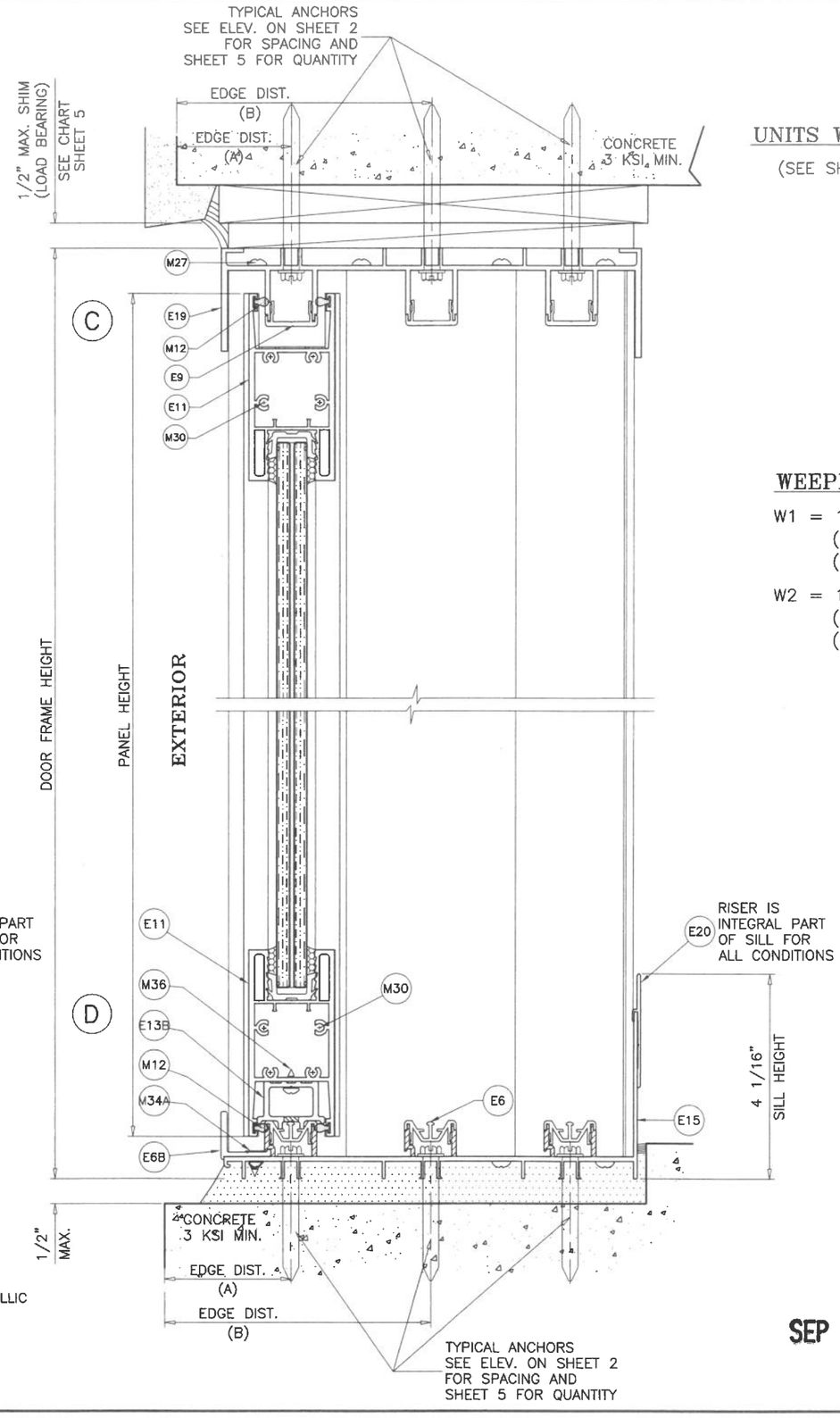
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date: 08–30–17
scale: –
dr. by: TARIQ
chk. by:

drawing no. W17–78

sheet 6.1 of 16





UNITS WITHOUT HEAD RECEPTORS

(SEE SHEET 9 WITH HEAD RECEPTOR)

WEEPHOLES:

W1 = 1/2" LONG WEEP NOTCHES
(1) AT 7" FROM EACH END
(2) AT MIDSPAN AT 16" O.C.

W2 = 1/2" LONG WEEP NOTCHES
(1) AT 10" FROM EACH END
(2) AT MIDSPAN AT 16" O.C.

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date: 08-30-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-78

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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD (FOR DOORS WITHOUT HEAD RECEPTOR)

TYPE 'A'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1–1/2" MIN. PENETRATION INTO WOOD

THRU 1BY WOOD BUCKS INTO CONCRETE
1–3/8" MIN. EMBED INTO CONCRETE

TYPE 'B'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED

TYPE 'C'– 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063–T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL (FOR DOORS W/WO HEAD RECEPTOR

TYPE 'BB'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1–1/2" MIN. EMBED

AT JAMBS (FOR DOORS WITH OR WITHOUT HEAD RECEPTOR)

5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 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 CONCRETE OR BLOCKS

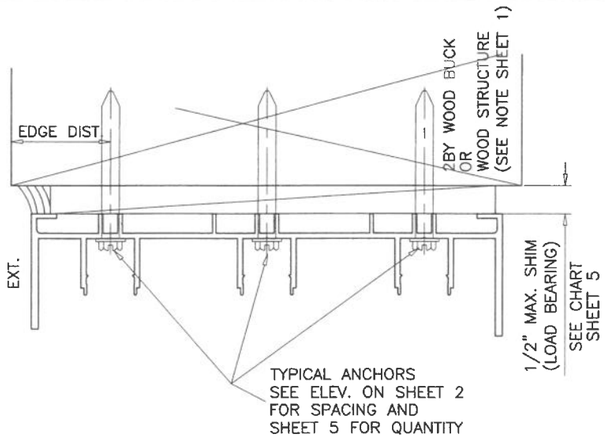
DIRECTLY INTO CONCRETE OR BLOCKS
1–1/2" MIN. EMBED INTO CONCRETE
1–1/4" MIN. EMBED INTO BLOCKS

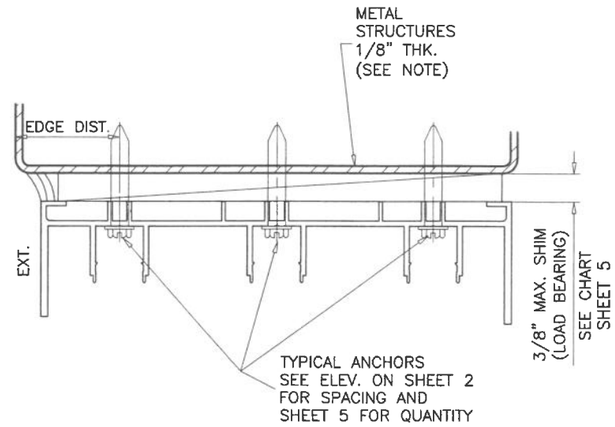
5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063–T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

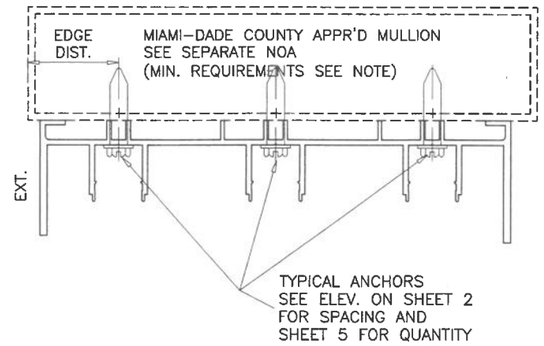
ANCHOR EDGE DISTANCES:

INTO CONCRETE (A) = 1–3/8" MIN. (EXT. OR INT. TRACKS AT HEAD/SILL)
INTO CONCRETE (B) = 2–1/2" MIN. (MIDDLE TRACK AT HEAD/SILL)
INTO MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 1–1/4" 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.







ALTERNATE SUBSTRATES FOR UNITS WITHOUT HEAD RECEPTORS

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami–Dade Product Control

SEP 23 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\W17–78ESW

SERIES ES–6500–3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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

revisions:

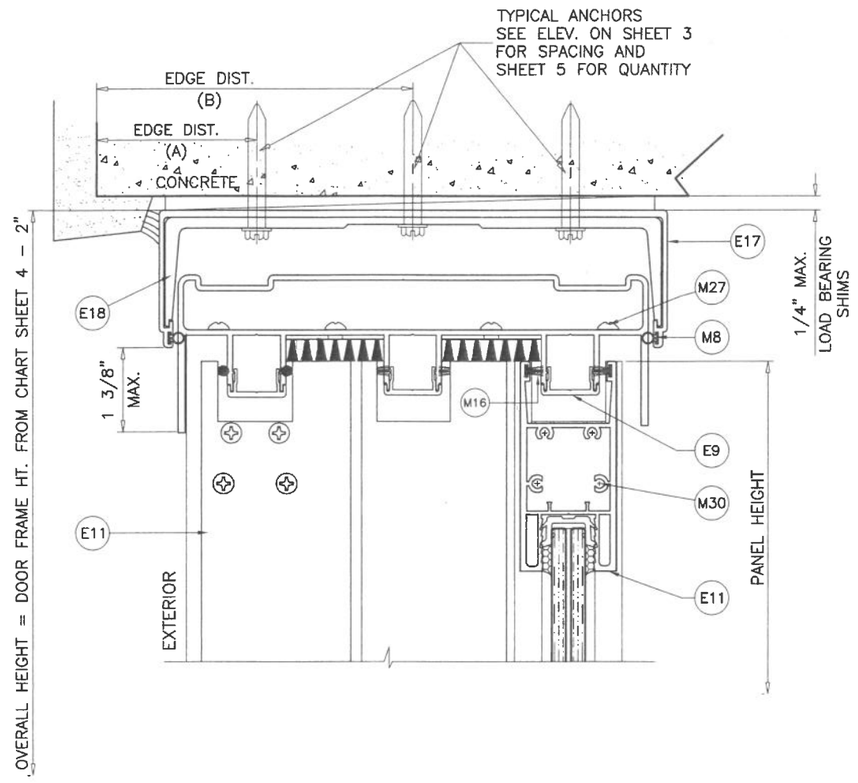
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date: 08–30–17
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dr. by: TARIQ
chk. by:

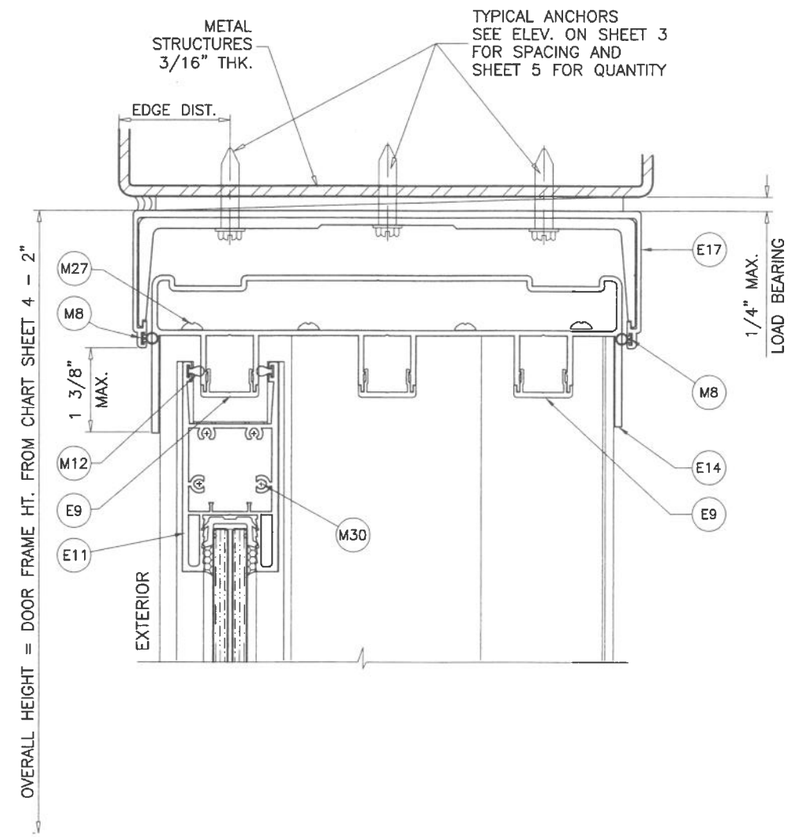
drawing no. W17–78

sheet 8 of 16

A1
OPTIONAL



C1
OPTIONAL



UNITS WITH HEAD RECEPTORS

HEAD RECEPTOR MOUNT SHOWN,
SEE ELEVATION ON SHEET 3,
DESIGN LOAD CAPACITY ON SHEET 4,
AND ANCHOR CAPACITY CHART IN SHEET 5

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD (FOR DOORS WITH RECEPTOR)

TYPE 'D'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED

5/16" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063–T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE (A) = 1–3/8" MIN. (EXT. OR INT. TRACKS AT HEAD/SILL)
INTO CONCRETE (B) = 2–1/2" MIN. (MIDDLE TRACK AT HEAD/SILL)
INTO METAL STRUCTURE = 1–1/2" MIN.

CONCRETE AT HEAD/SILL f'c = 3000 PSI MIN.

PRODUCT REVISED
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By Ishaq I. Chanda
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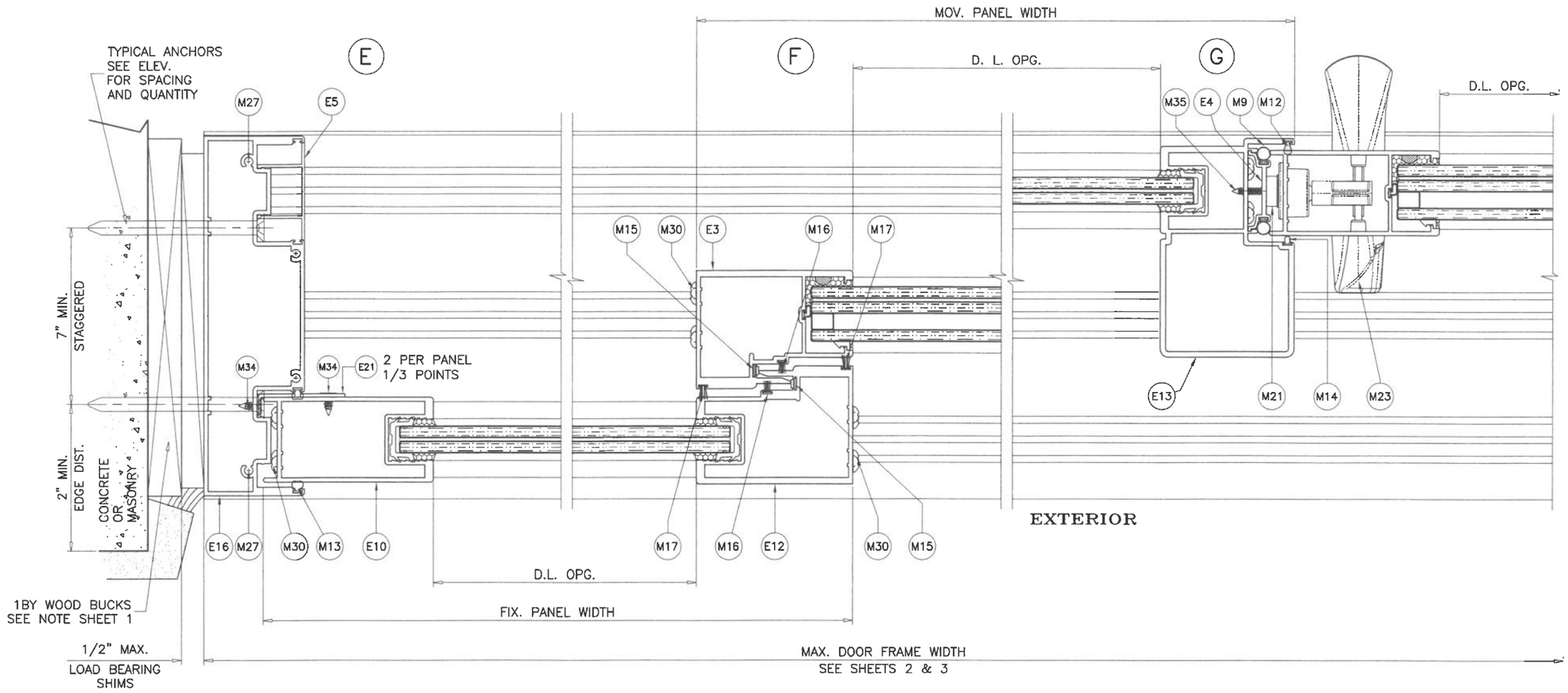
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chk. by:

drawing no. W17–78

sheet 9 of 16



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3-TRACKS UN-REINFORCED S.G.D.

SEP 2 3 2026

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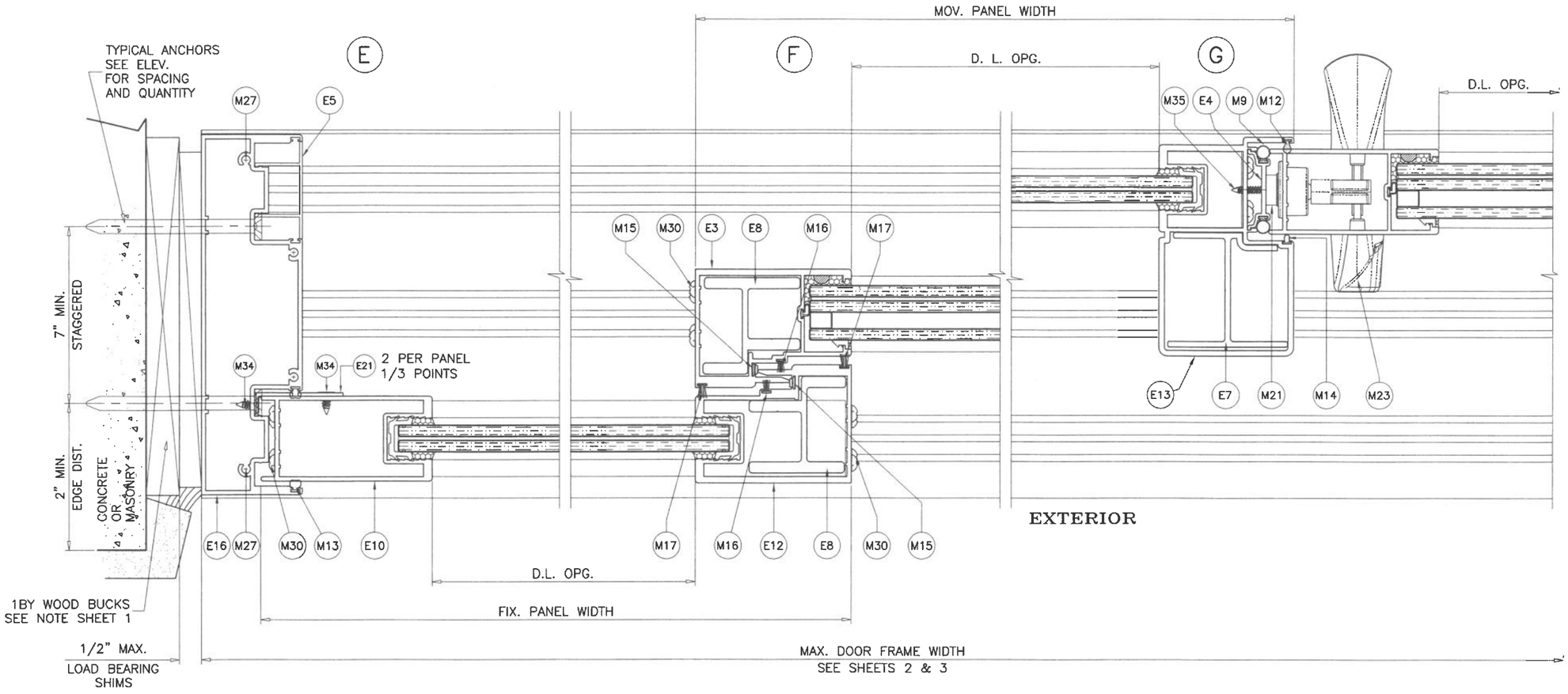
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sheet 10 of 16



EXTERIOR

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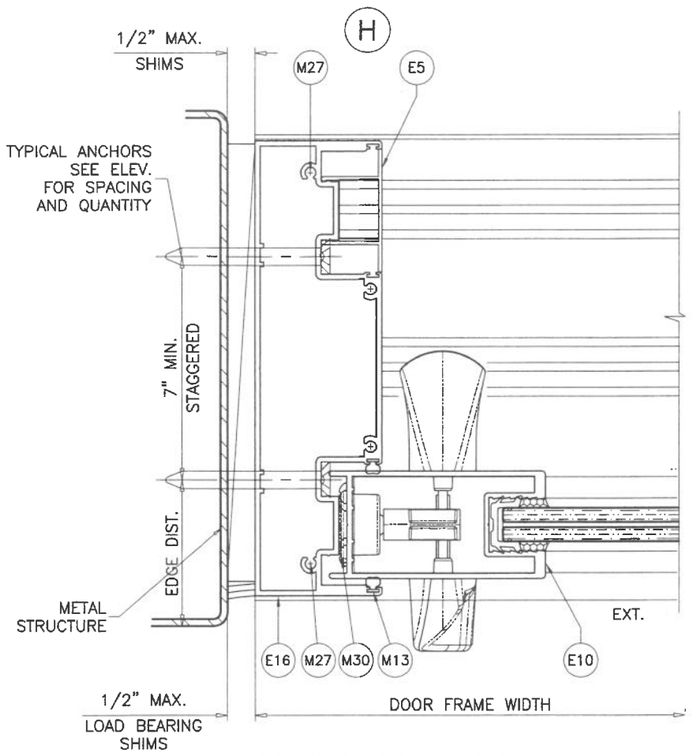
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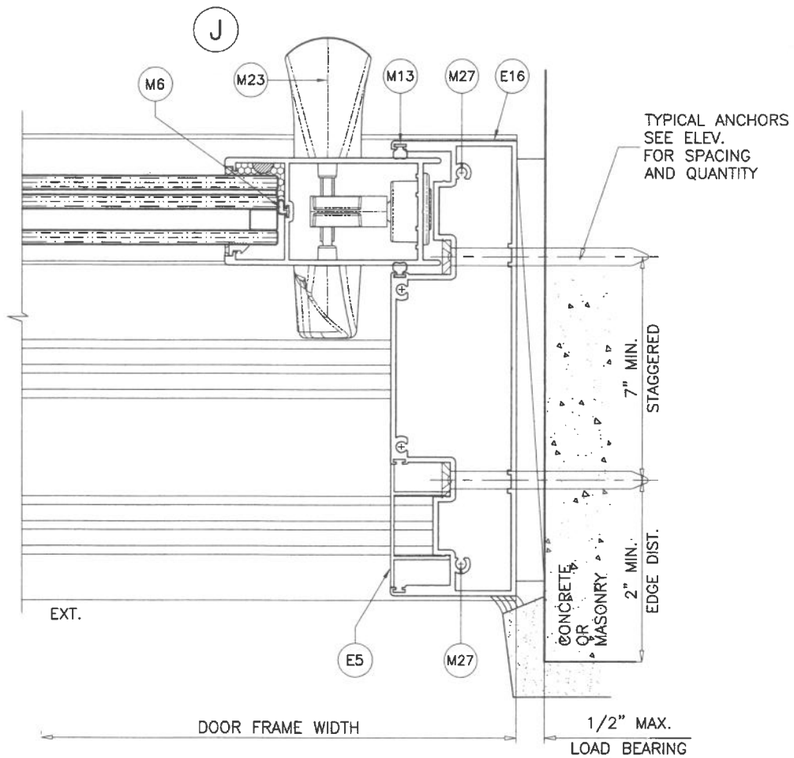
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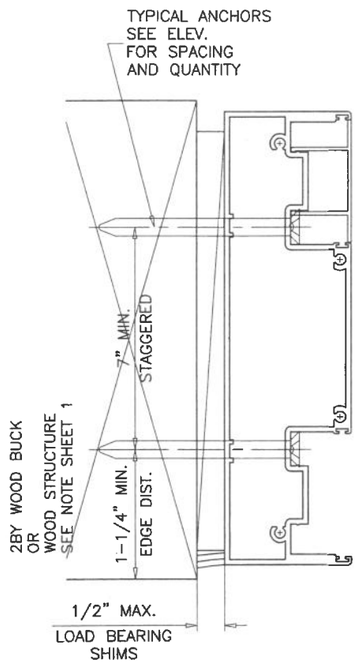
sheet 10.1 of 16



UN-REINFORCED S.G.D.



UN-REINFORCED S.G.D.



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D	09.21.26		NO CHANGE THIS SHEET

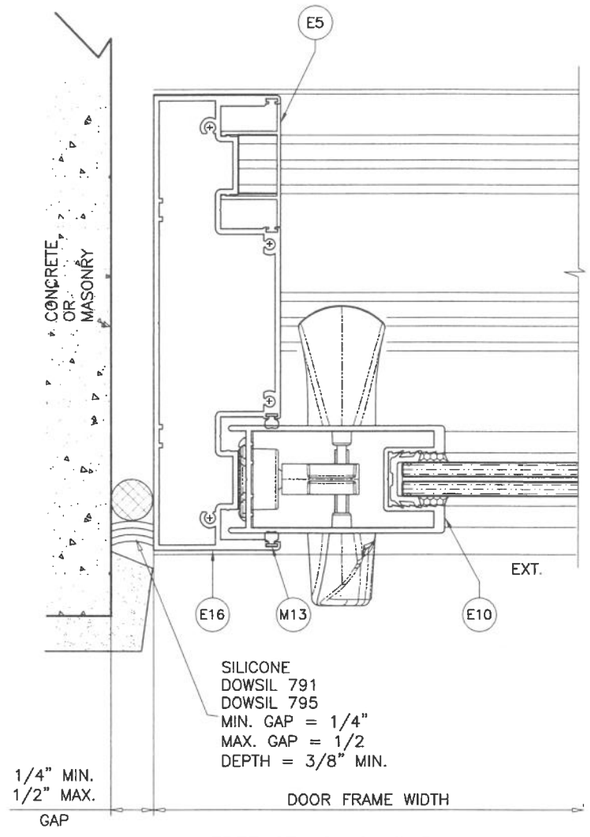
date: 08-30-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-78

FREE STANDING JAMB DESIGN LOAD CAPACITY – PSF					
NOM. PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	UN–REINFORCED SGD FIX./OPERABLE PANELS		REINFORCED SGD FIX. PANELS ONLY	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	84	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	90	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	96	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	102	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
36	108	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
36	114	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
36	118–1/8	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
36	120	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0

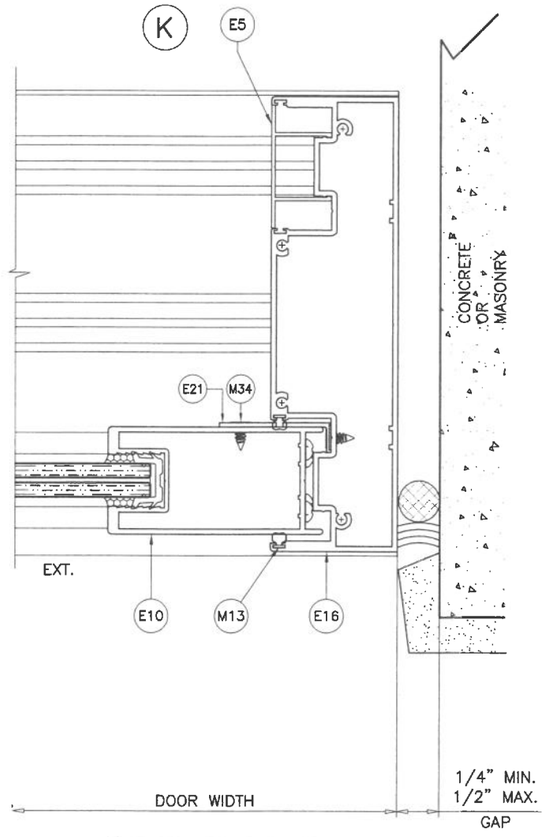
SEE SHEET 6 FOR APPROVED CONFIGURATIONS OF UN–REINFORCED SGD, AND SHEET 6.1 FOR APPROVED CONFIGURATIONS OF REINFORCED SGD.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami–Dade Product Control



FREE STANDING JAMB
OPERABLE SIDE

Ix IN^4	Sx IN^3
11.784	4.716



FREE STANDING JAMB
FIXED SIDE

Ix IN^4	Sx IN^3
11.784	4.716

DOWSIL 791 = 50% STRETCH
DOWSIL 795 = 100% STRETCH

ALLOWABLE LOADS FOR DOOR HEIGHTS VERSUS 50% OR 100% STRETCH SILICONES (SEE DESIGN LOAD CAPACITY ON SHEET 4)				
	1/4" MIN. GAP		3/8" MIN. GAP	
DOOR HEIGHT	50%	100%	50%	100%
96"	135 PSF	135 PSF	135 PSF	135 PSF
114"	85 PSF	135 PSF	135 PSF	135 PSF
120"	–	–	–	135 PSF
MAXIMUM GAP = 1/2" ALL CASES				

NOTE:
DATA IN THIS SHEET MAY BE USED TO QUALIFY SPECIFIED JOINT SEALANT TO BE USED AT UNANCHORED FREE STANDING JAMBS.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & DOOR MATERIAL FINISH AND COMPLIANCE FOR WARRANTY. (UNDER SEPARATE REVIEW)

CONDITIONS OR OTHER SEALANTS NOT COVERED IN THIS SHEET TO BE ENGINEERED SEPARATELY AND TO BE REVIEWED BY AHJ.

SEP 2 3 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\W17–78ESW

SERIES ES–6500–3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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

revisions:			
no	date	by	description
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date: 08–30–17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W17–78

sheet 12 of 16

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-6500-005	2/ PANEL	TOP AND BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E2	ES-6500-006	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E3	ES-6500-007	1/ PANEL	INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T6	-
E4	ES-6500-009	1	ASTRAGAL ADAPTER	6063-T6	-
E5	ES-6500-012	2	SNAP-IN JAMB COVER (OPTIONAL)	6063-T5	-
E6	ES-6500-013	1	TRACK INSERT	6063-T6	-
E6B	ES-6500-014A	AS REQD.	RETAINER ANGLE, 7" LONG	6063-T6	AT INTERLOCK LOCATIONS
E7	ES-6500-016	AS REQD.	ASTRAGAL REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E8	ES-6500-017	AS REQD.	INTERLOCK REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E9	ES-6500-018	AS REQD.	HEAD COVER (OPTIONAL)	6063-T5	-
E10	ES-6500-023	1/ PANEL	LOCK STILE (LAM. GLASS)	6063-T6	-
E11	ES-6500-024A	2/ PANEL	TOP AND BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E12	ES-6500-025	1/ PANEL	INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E13	ES-6500-026	1	ASTRAGAL STILE (LAM. GLASS)	6063-T6	-
E13A	ES-6500-008	1	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E13B	ES-6500-033	2/ FIX. PANEL	FIXED PANEL BOTTOM GUIDE, 7" LONG	6063-T5	-
E14	ES-6500-050	1	FRAME HEAD AT RECEPTOR	6063-T6	-
E15	ES-6500-051	1	FRAME SILL	6063-T6	-
E16	ES-6500-052	2	FRAME JAMB	6063-T6	-
E17	ES-6500-053	1	HEAD RECEPTOR	6063-T6	-
E18	ES-6500-054	1	RECEPTOR REINFORCEMENT, FULL LENGTH	6063-T6	-
E19	ES-6500-055	1	FRAME HEAD	6063-T6	-
E20	ES-6500-028	1	SILL RISER	6063-T5	-
E21	ES-CF-001A	AS REQD.	FIX. PANEL CLIP, 4" LONG, AT 1/3 POINTS	6063-T5	-
M1	ES-6500-G01A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A.
M4	4013A	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A.
M5	4014A	AS REQD.	BOTTOM RAIL GLAZING GASKET	EPDM	DUROMETER 68±5 SHORE A
M6	ES-4018A	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 75±5 SHORE A
M7	ES-8011A	AS REQD.	SPACER GASKET	EPDM	DUROMETER 85±5 SHORE A
M8	ES-5008A	AS REQD.	BULB W'STRIPPING	SILICONE	DUROMETER 65±5 SHORE A
M9	E-214	AS REQD.	ASTRAGAL ADAPTER W'STRIPPING	VINYL	THERMOPLASTIC ELASTOMER, DUROMETER 65±5 SHORE A
M10	1/4" X 1/2"	AS REQD.	GLAZING TAPE (INSUL. LAM. GLASS)	FOAM	-
M11	ES-7530-B01A	2/ LITE	SETTING BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M12	Q300T190	AS REQD.	FABRIC COATED FOAM WEATHERSEAL	POLYETHYLENE	Q-LONG
M13	Q250T190	AS REQD.	JAMB W'STRIPPING	POLYETHYLENE	Q-LONG
M14	Q200T190	AS REQD.	ASTRAGAL W'STRIPPING	POLYETHYLENE	Q-LONG
M15	Q150T270	AS REQD.	INTERLOCK W'STRIPPING	POLYETHYLENE	Q-LONG
M16	W223012K	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M17	W22322NK	AS REQD.	PILE W'STRIPPING AT INTERLOCK	POLYPROPYLENE	-
M18	P6304 AFK	-	ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M19	GTT-234/460-02-A	2/ PANEL	ROLLER	-	PABOSE
M20	66900-001	-	ROLLER SCREW CAP	PVC	-
M21	PS01-1005-00B	1	MORTISE LOCK KEEPER	-	INTERLOCK
M22	PS01-0035-00B	1	TWO POINT 3-PLY HOOK LOCK	-	INTERLOCK
M23	PS01-0100-117	1/ MOV. PANEL	HANDLE SET	-	INTERLOCK
M27	#12 X 1 1/2"	4/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M28	#12 X 1 3/4"	AS REQD.	RECEPTOR FASTENERS	ST. STEEL	P.H. SMS
M29	#12 X 1"	AS REQD.	BUMPER FASTENERS	ST. STEEL	P.H. SMS
M30	#10 X 1 1/4"	4/ CORNER	PANEL ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M31	#8 X 3/4"	2/ ROLLER	ROLLER FASTENERS	ST. STEEL	F.H. SMS
M32	#10 X 1/2"	2/ CLIP	FIX. CLIP FASTENERS	ST. STEEL	HWH SMS
M33	#8 X 1/2"	2/ HANDLE	HANDLE SET FASTENERS	ST. STEEL	F.H. SMS
M34	#10 X 1/2"	2/ CLIP	FIX. PANEL CLIP FASTENERS	ST. STEEL	F.H. SMS
M34A	#10 X 1/2"	4/ ANGLE	RETAINER ANGLE FASTENERS	ST. STEEL	F.H. SMS
M35	#8 X 1"	AS REQD.	ASTRAGAL ADAPTER FASTENERS, AT 4" FROM EACH END	ST. STEEL	P.H. SMS
M36	#8 X 3/8"	2/ GUIDE	BOTTOM GUIDE FASTENERS	ST. STEEL	P.H. SMS

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NOA-No. 26-0924.13
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By Ishaq I. Chanda
Miami-Dade Product Control

SEALANT:

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

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 43-1/4" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10-32 X 2-1/2" OH MS

SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK
43-1/4" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 3/4" PH SMS

SURFACE MOUNT METALLIC KEEPER AT 43-1/4" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(3) #8 X 3/4" PH SMS

SEP 23 2026

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COMP-ANL\W17-78ESW

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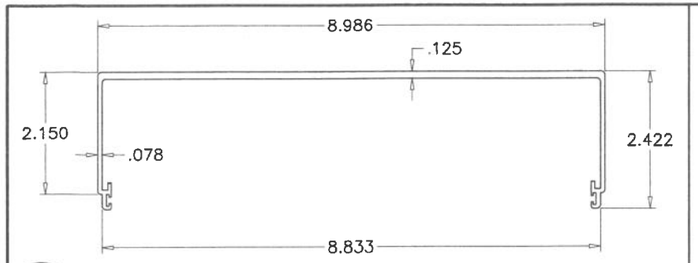
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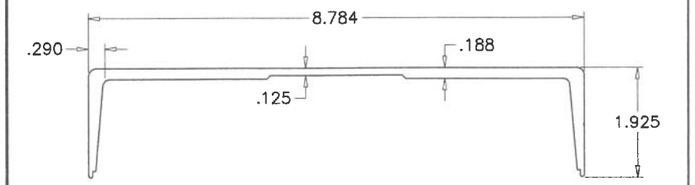
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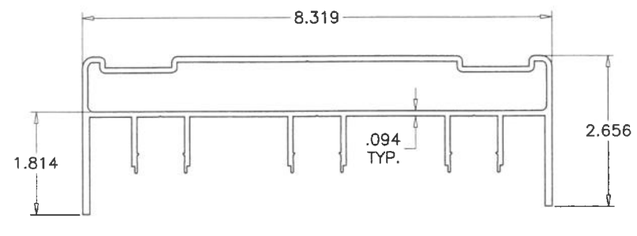
drawing no. W17-78



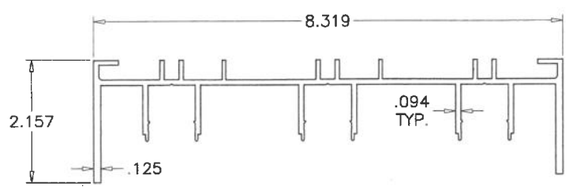
E17 HEAD RECEPTOR



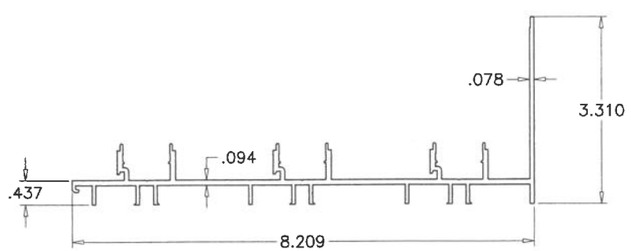
E18 RECEPTOR STIFFENER



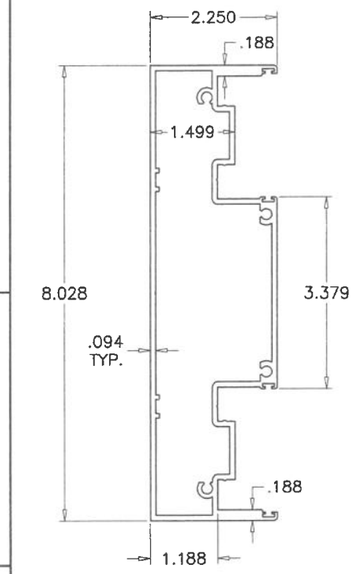
E14 FRAME HEAD AT RECEPTOR



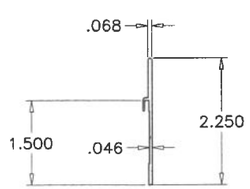
E19 FRAME HEAD
(WITHOUT HEAD RECEPTOR)



E15 FRAME SILL



E16 STD. FRAME JAMB



E20 SILL RISER

PRODUCT REVISED
as complying with the Florida Building Code
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Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami-Dade Product Control

SEP 2 3 2026

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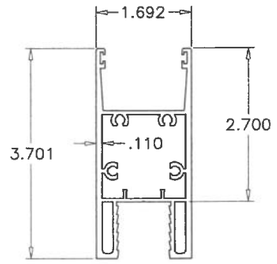
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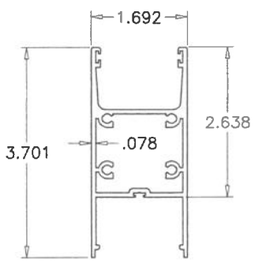
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drawing no. W17-78

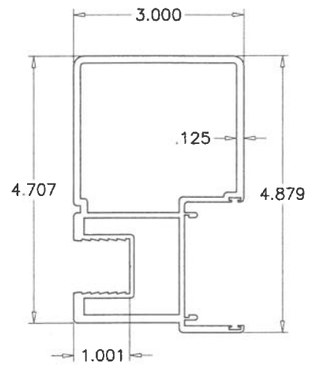
sheet 14 of 16



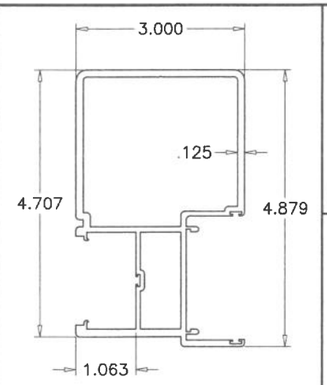
E11 PANEL TOP & BOTTM RAIL (LAM. GLASS)



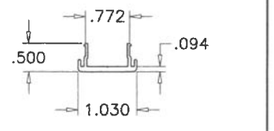
E1 PANEL TOP & BOTTM RAIL (INSUL. LAM. GLASS)



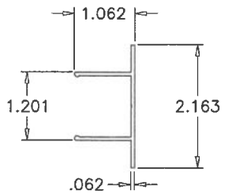
E13 ASTRAGAL (LAM. GLASS)



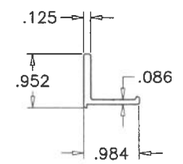
E13A ASTRAGAL (INSUL. LAM. GLASS)



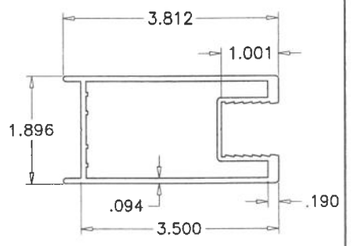
E9 HEAD COVER



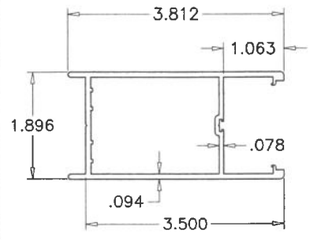
E5 JAMB COVER



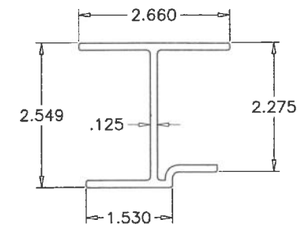
E6B RETAINER ANGLE



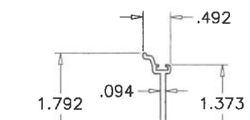
E10 PANEL LOCK STILE (LAM. GLASS)



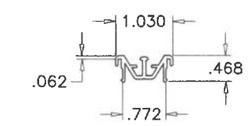
E2 PANEL LOCK STILE (INSUL. LAM. GLASS)



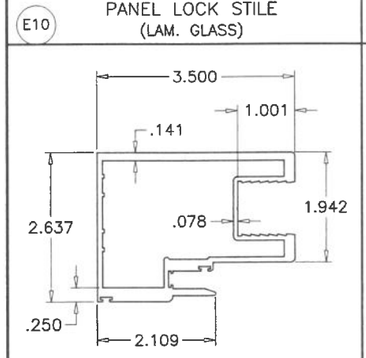
E7 ASTRAGAL STIFFENER



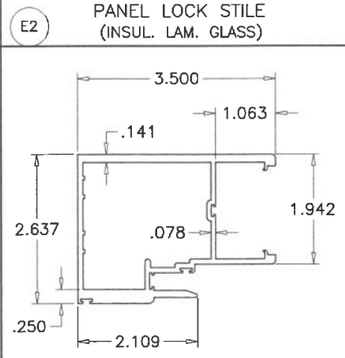
E4 ASTRAGAL ADAPTER



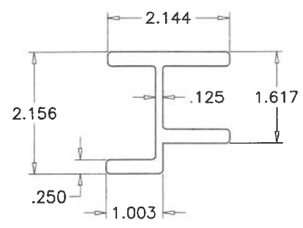
E6 TRACK INSERT



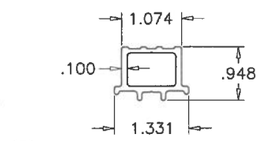
E12 PANEL INTERLOCK (LAM. GLASS)



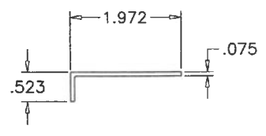
E3 PANEL INTERLOCK (INSUL. LAM. GLASS)



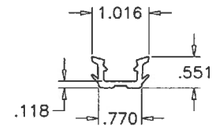
E8 INTERLOCK STIFFENER



E13B FIX. PANEL BOTTOM GUIDE



E21 FIX. PANEL CLIP



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

M1 GLAZING GASKET

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami-Dade Product Control

SEP 2 3 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\W17-78ESW

SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

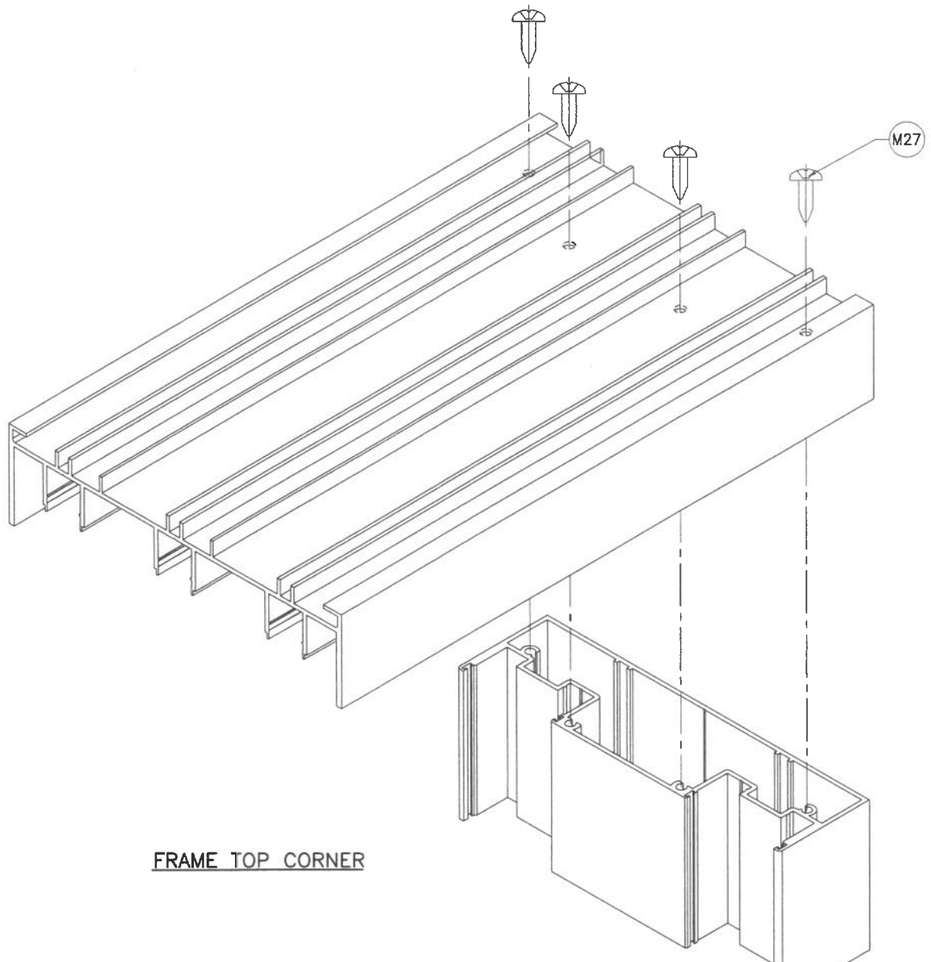
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

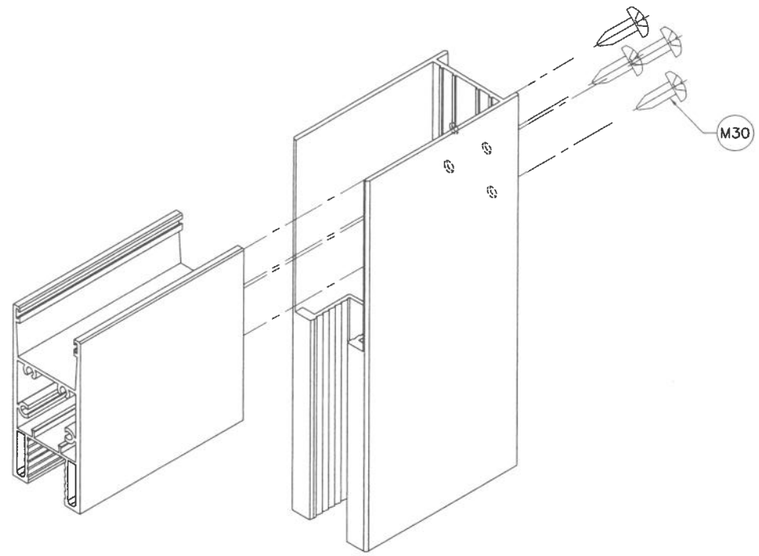
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B	11.06.20		UPDATED TO 2020 FBC
C	09.12.23		NO CHANGE THIS SHEET
D	09.21.26		NO CHANGE THIS SHEET

date: 08-30-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W17-78



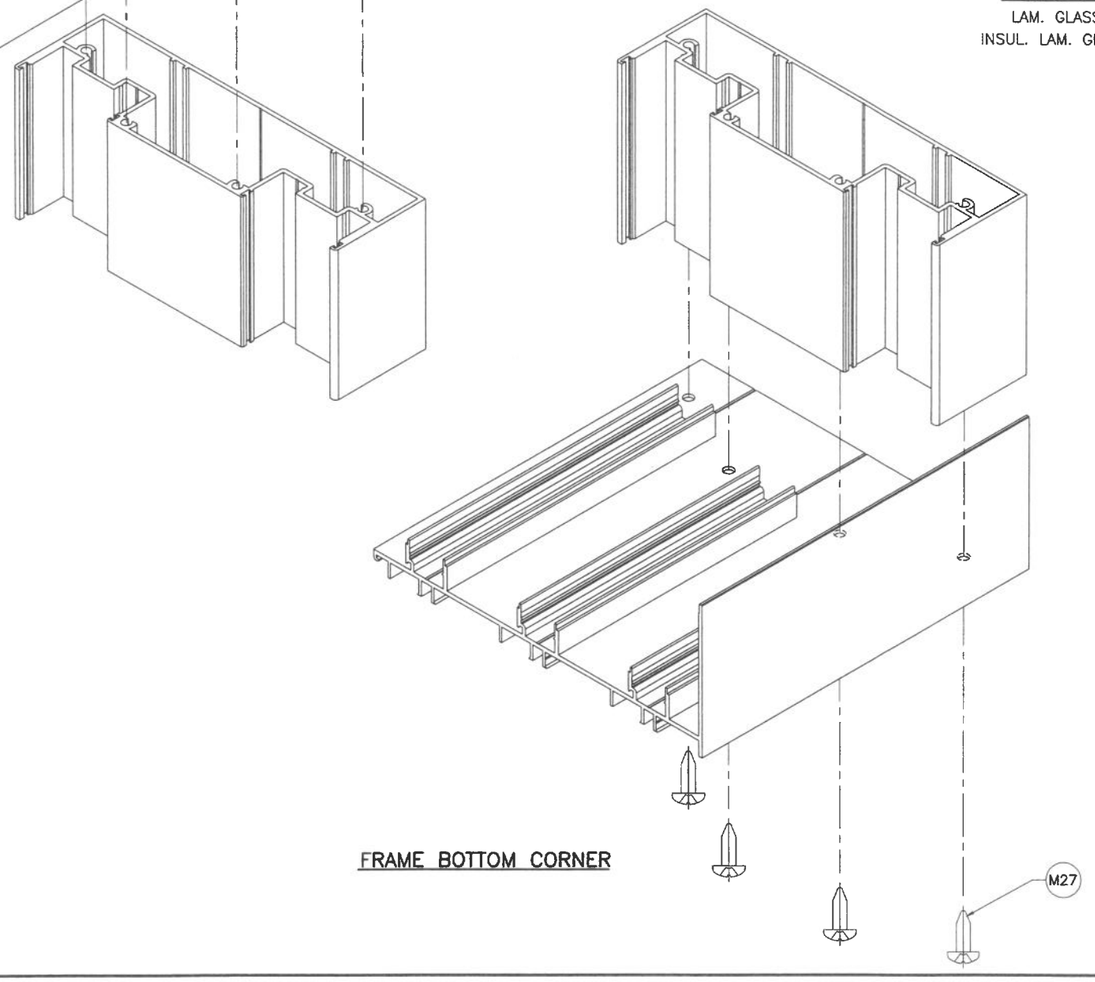
FRAME TOP CORNER



PANEL TOP/BOTTOM CORNER

LAM. GLASS RAIL & STILE (SHOWN)

INSUL. LAM. GLASS RAIL & STILE (SIMILAR)



FRAME BOTTOM CORNER

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0924.13
Expiration Date 03/28/2028
By Ishaq I. Chanda
Miami-Dade Product Control

SEP 2 3 2026

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