



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

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

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

E.S. Windows, LLC  
3550 N. W. 49<sup>th</sup> Street  
Miami, FL 33142

### SCOPE:

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

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

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

**DESCRIPTION:** Series “6500-3 Tracks” Aluminum Sliding Glass Doors w/wo HR & w/wo reinforcements-LMI

**APPROVAL DOCUMENT:** 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., bearing the Miami-Dade County Product Control Renewal 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 **renews** NOA #**20-1118.08** consist of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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



*Ishaq I. Chanda*

NOA No. 22-1220.07  
Expiration Date: March 28, 2028  
Approval Date: January 12, 2023  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections
2. Drawing No. **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 **#15-0602.07 & #13-0115.05**)

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (**6<sup>th</sup> Edition**), prepared by Al Farooq Corporation, dated AUG 13, 2017, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 & -09.

*Ishaq I. Chanda*  
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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-1220.07**  
**Expiration Date: March 28, 2028**  
**Approval Date: January 12, 2023**

**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 “Trofossil, ultra-clear & color” (former “Kuraray **Butacite PVB Interlayer**”, expiring on 07/08/19.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2017 (**6<sup>th</sup> 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) **#15-0602.07 & #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 7<sup>th</sup> 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*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-1220.07**  
**Expiration Date: March 28, 2028**  
**Approval Date: January 12, 2023**

**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 7<sup>th</sup> 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*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-1220.07**  
**Expiration Date: March 28, 2028**  
**Approval Date: January 12, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. New 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 7<sup>th</sup> 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*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-1220.07**  
**Expiration Date: March 28, 2028**  
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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 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

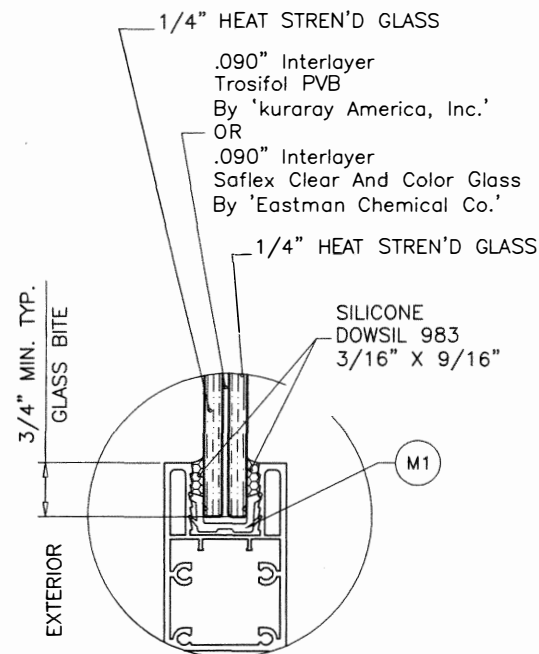
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

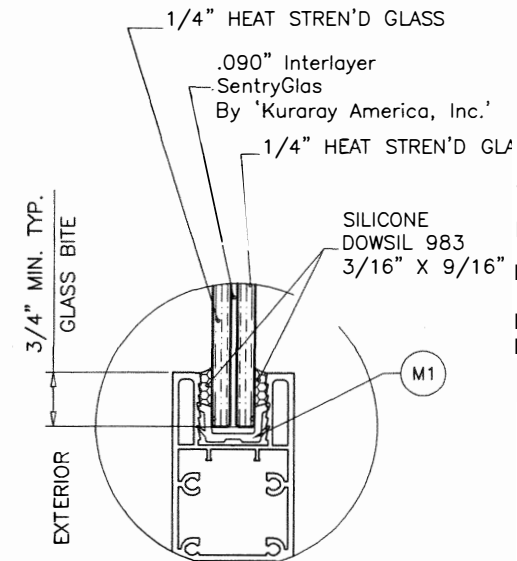
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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



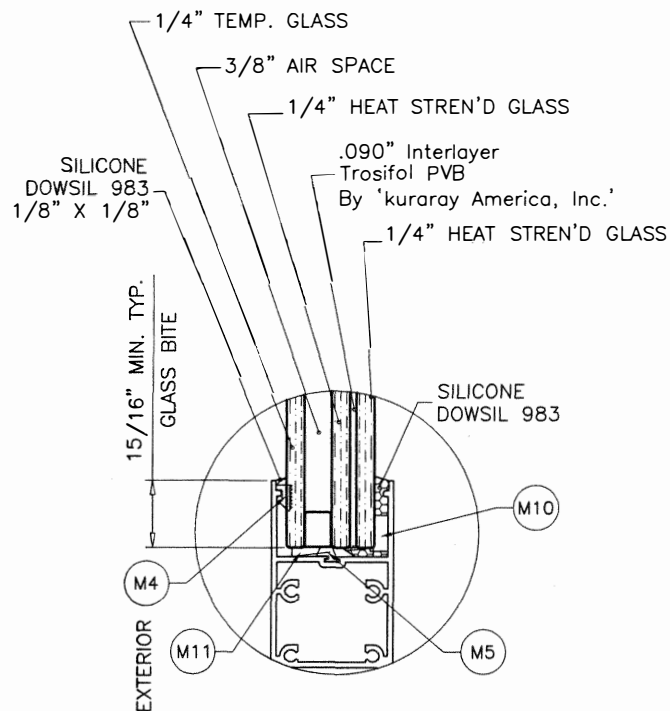
GLASS TYPE 'A'

9/16" OVERALL LAMINATED GLASS



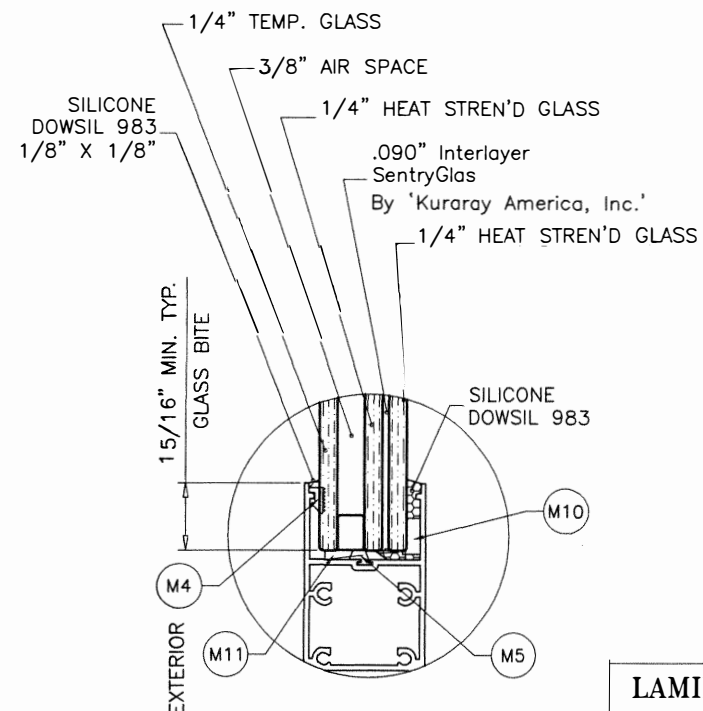
GLASS TYPE 'B'

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 RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-1220.07

Expiration Date 03/28/2028

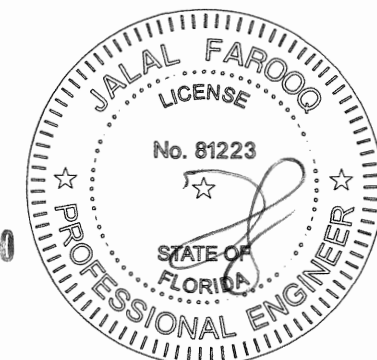
By *Ishag I. Chande*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.08

Expiration Date 03/28/2023

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

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



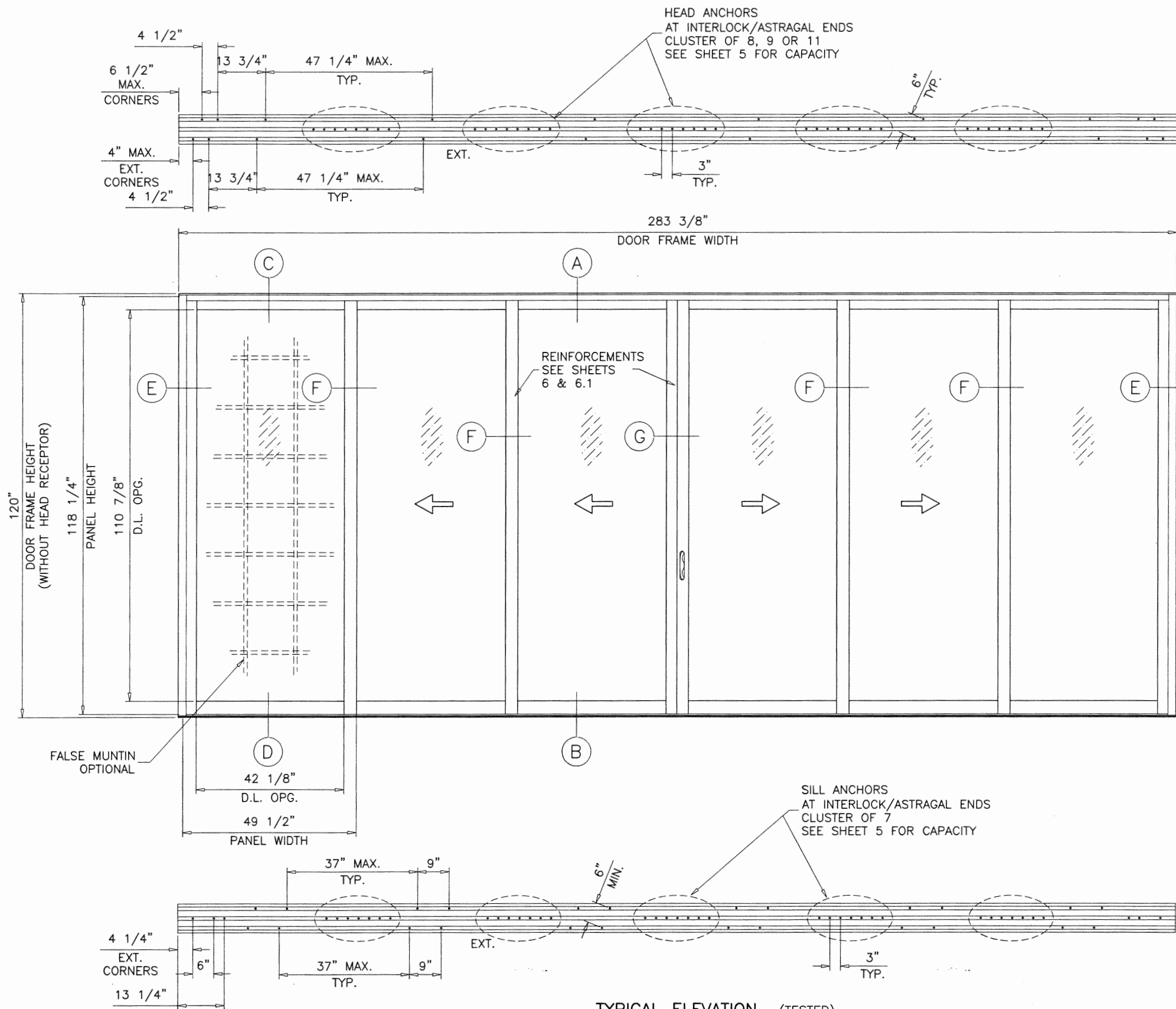
NOV 10 2020

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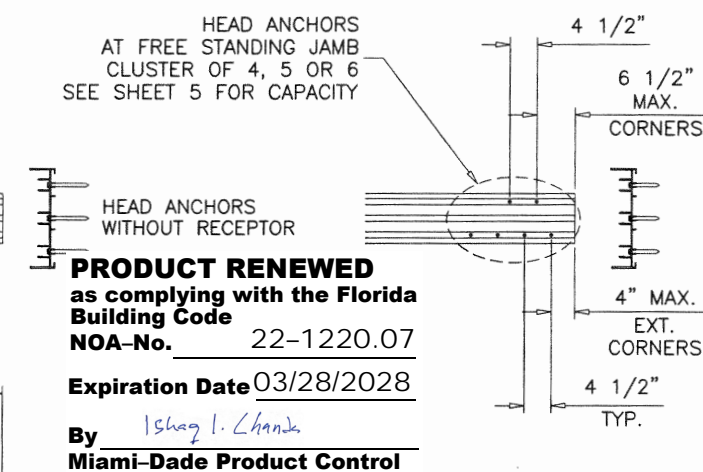
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978  
FAX. (305) 262-6978  
COMP-ANL W17-78ESW

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

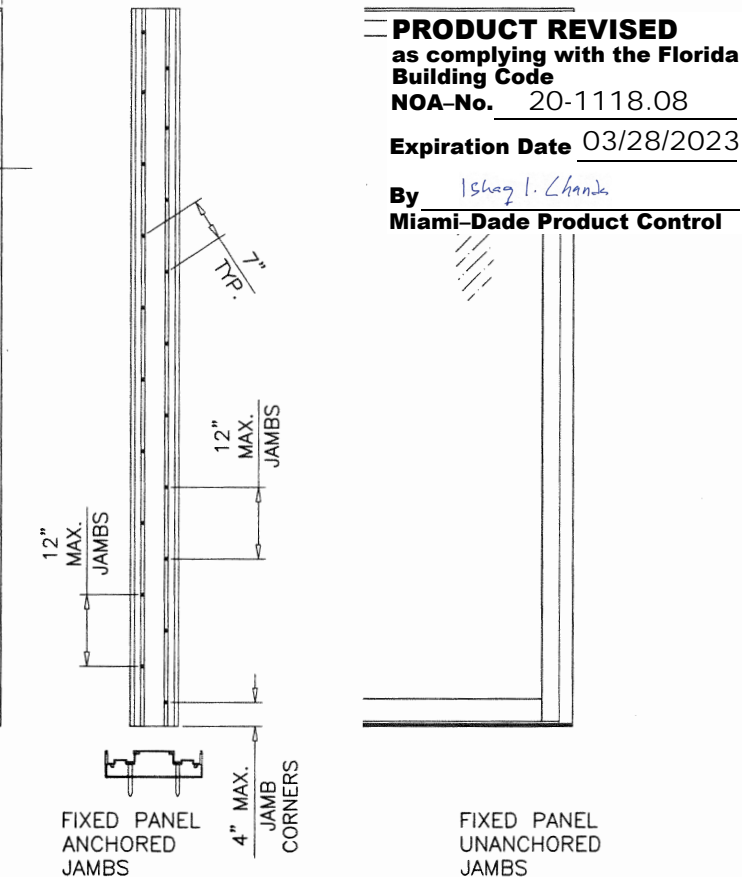
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	B	11.06.20	UPDATED TO 2020 FBC	
date:	08-30-17			
scale:	3/8" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	W17-78			
sheet	1 of 16			



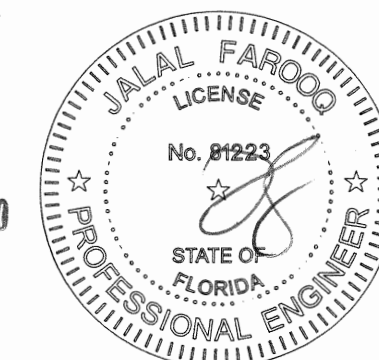
**TYPICAL ELEVATION (TESTED)**  
**OXX-XXO (DOORS WITHOUT HEAD RECEPTOR)**  
 MAX. FRAME AREA NOT TO EXCEED 236.1 SQ. FT.



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



**PRODUCT REVISED**  
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 Miami-Dade Product Control



NOV 10 2020

**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

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

revisions:		date:	by:	description
A	11.13.17	11.13.17	REV. PER RER COMMENTS	
B	11.06.20	11.06.20	UPDATED TO 2020 FBC	

date: 08-30-17

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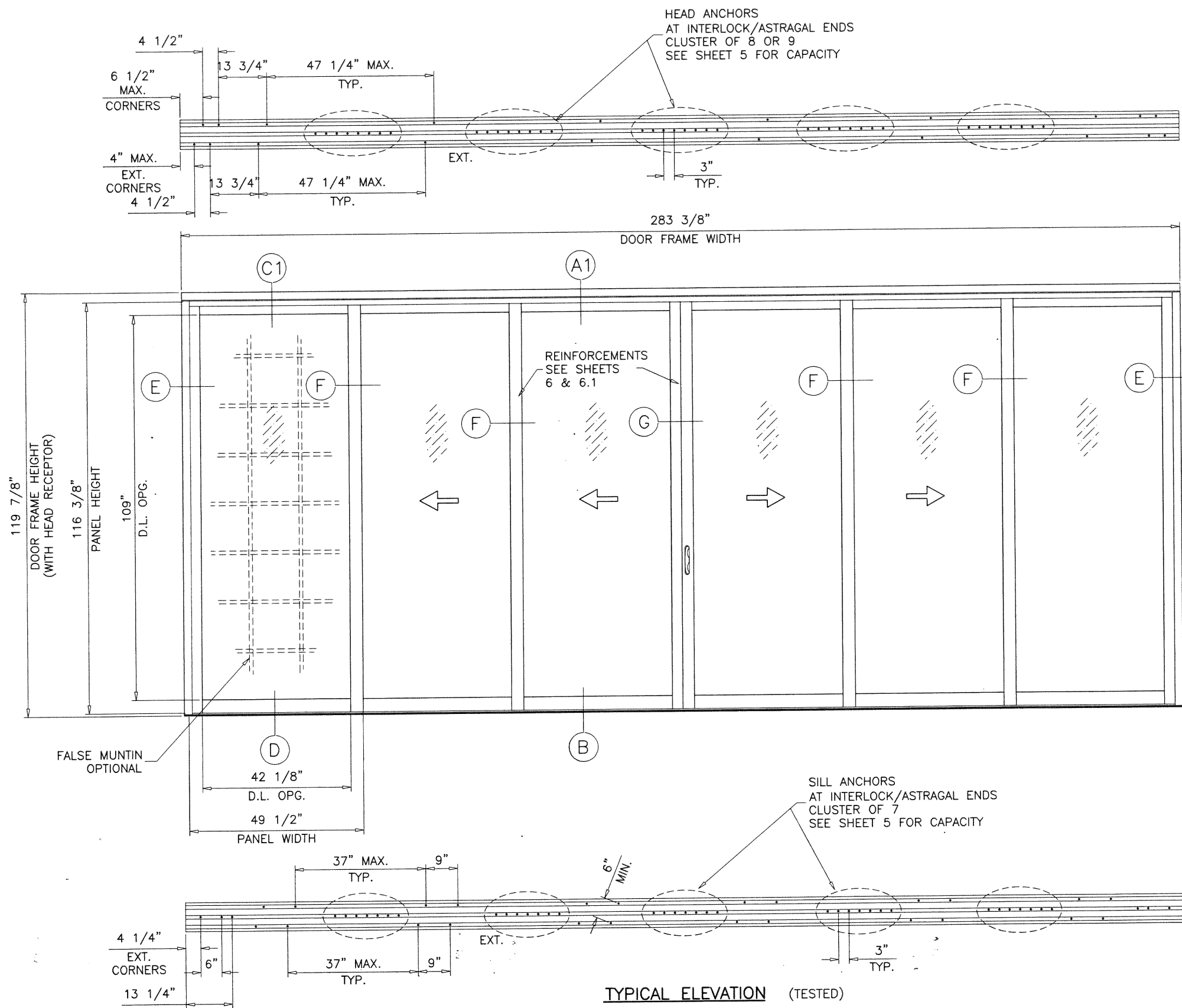
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chk. by:

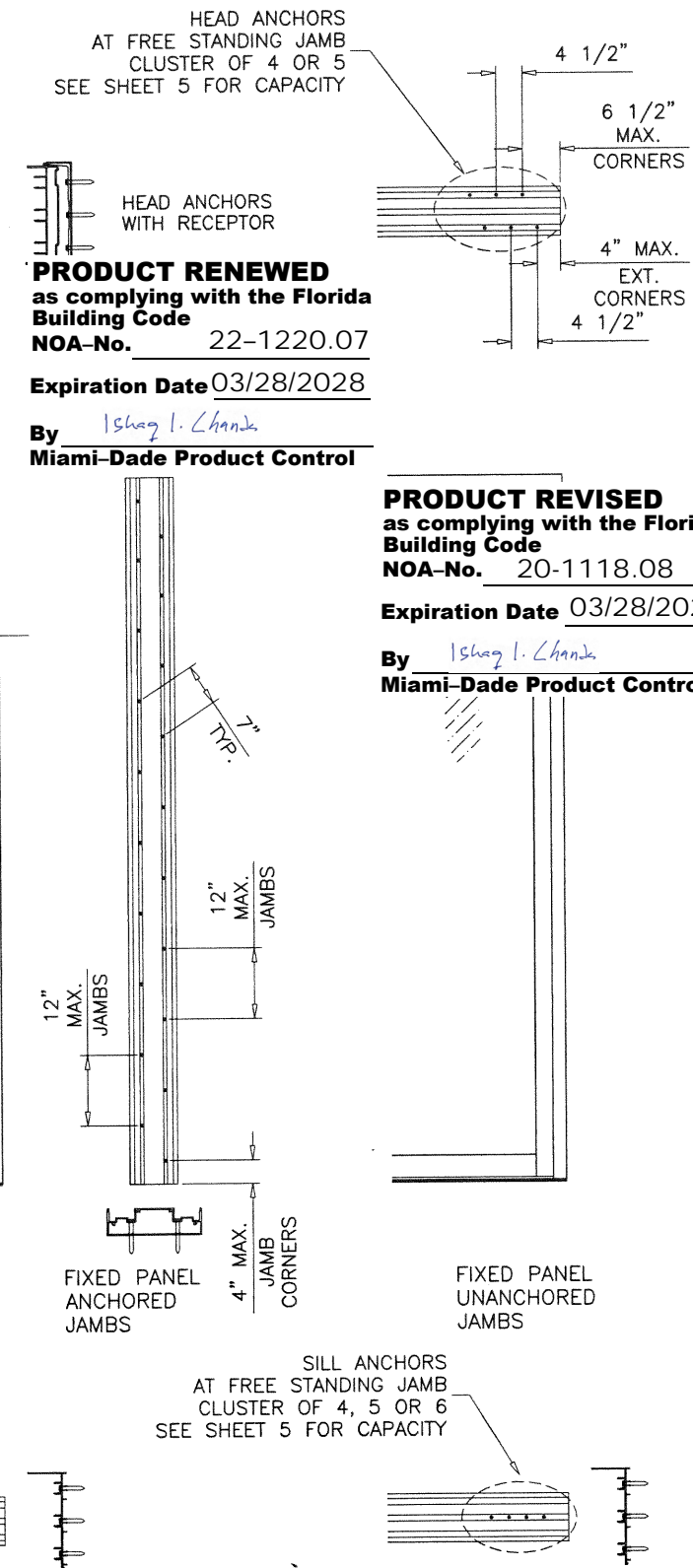
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**W17-78**

sheet 2 of 16

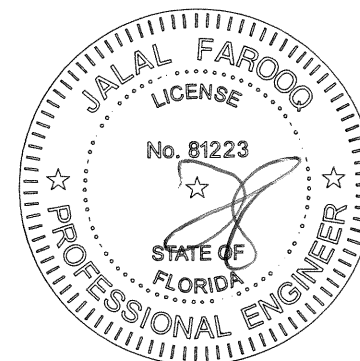




**TYPICAL ELEVATION** (TESTED)  
 OXX-XXO (DOORS WITH HEAD RECEPTOR)  
 MAX. FRAME AREA NOT TO EXCEED 235.9 SQ. FT.



SILL ANCHORS  
 AT FREE STANDING JAMB  
 CLUSTER OF 4, 5 OR 6  
 SEE SHEET 5 FOR CAPACITY



NOV 10 2020

**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

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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

date: 08-30-17  
 scale: 3/8"=1'-0"  
 dr. by: TARIQ  
 chk. by:

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drawing no.  
**W17-78**

sheet **3** of 16

NOV 10 2020

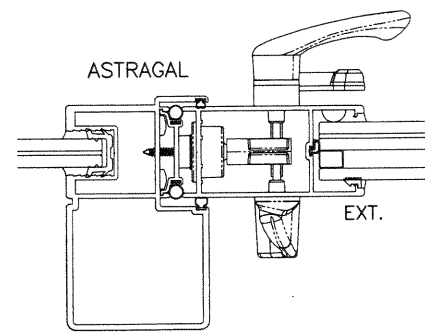
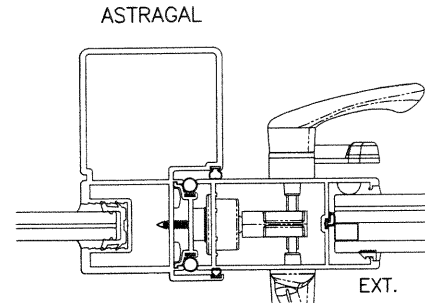
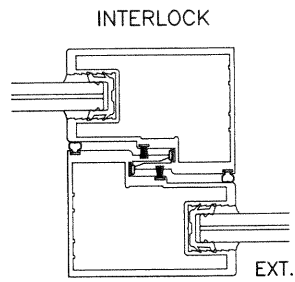
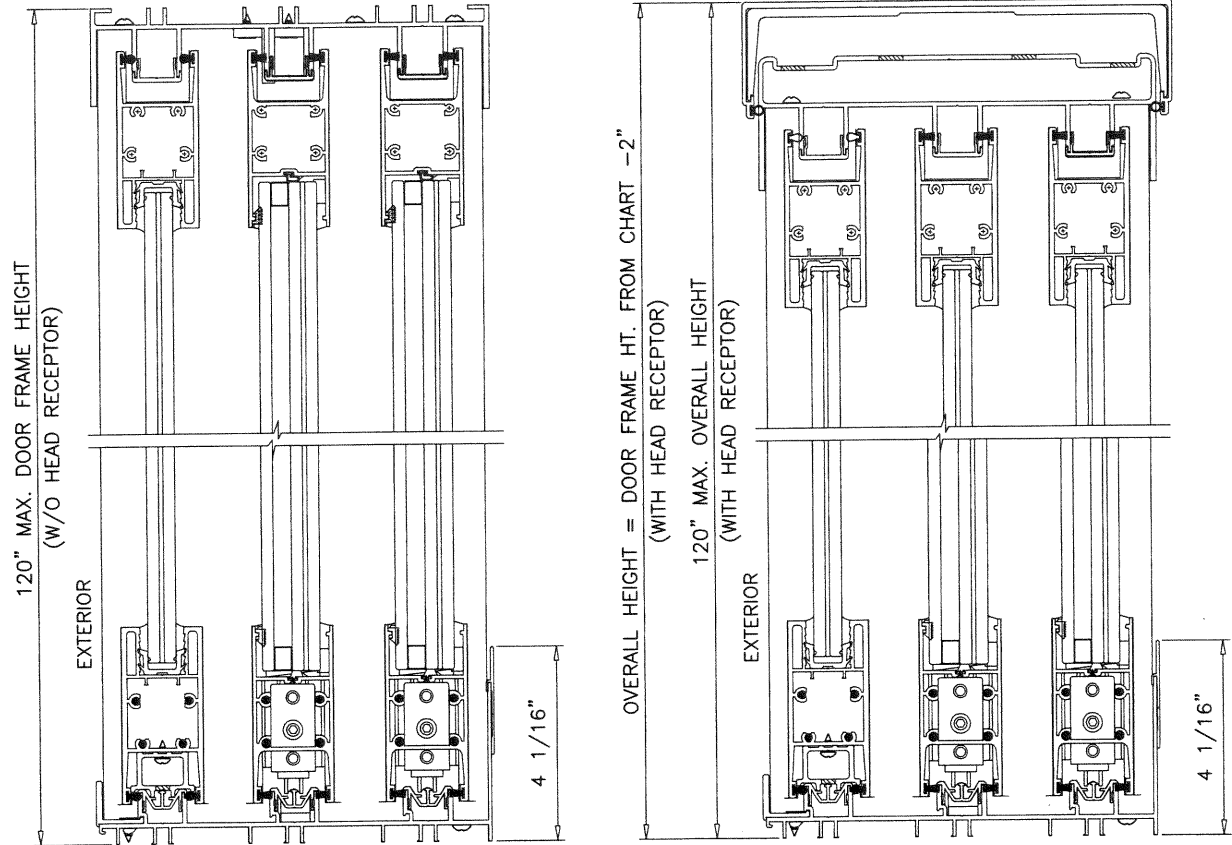


DESIGN LOAD CAPACITY - PSF (WITH OR WITHOUT HEAD RECEPTOR)							
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	WITHOUT REINFORCING				WITH REINFORCING	
		GLASS 'A' & 'A1'		GLASS 'B' & 'B1'		GLASS 'B' & 'B1'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	82	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	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

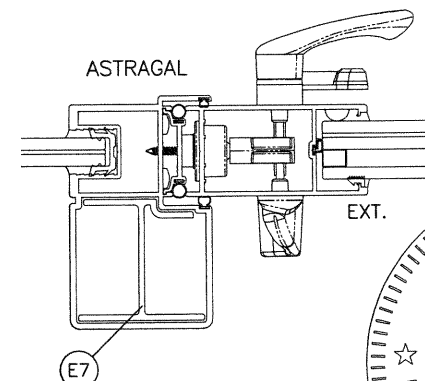
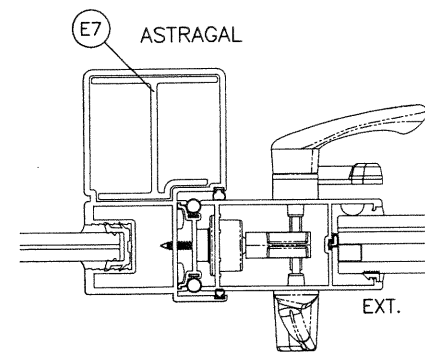
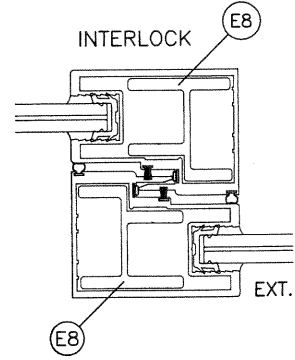
CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.  
FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART - 2".

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

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



WITHOUT REINFORCING



WITH REINFORCING

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-1220.07

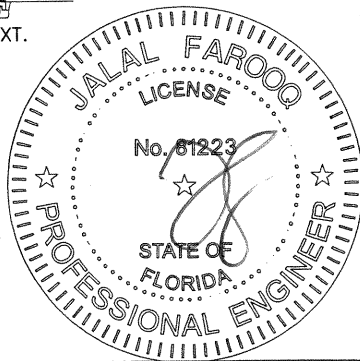
Expiration Date 03/28/2028

By Ishaq I. Chande  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.08

Expiration Date 03/28/2023

By Ishaq I. Chande  
Miami-Dade Product Control



NOV 10 2020

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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 PER COMMENTS
B	11.06.20		UPDATED TO 2020 FBC

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

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-1220.07  
Expiration Date 03/28/2028  
By Ishag I. Chank  
Miami-Dade Product Control

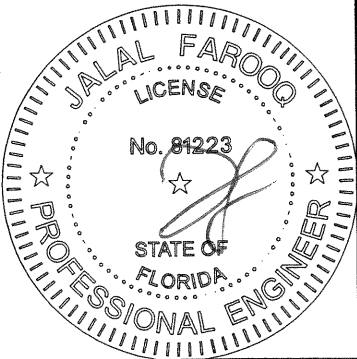
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.08  
Expiration Date 03/28/2023  
By Ishag I. Chank  
Miami-Dade Product Control

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.

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

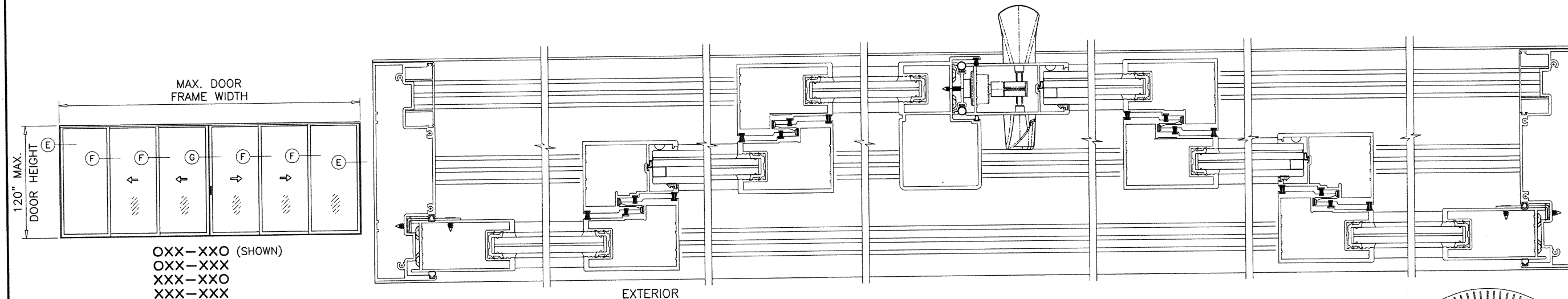
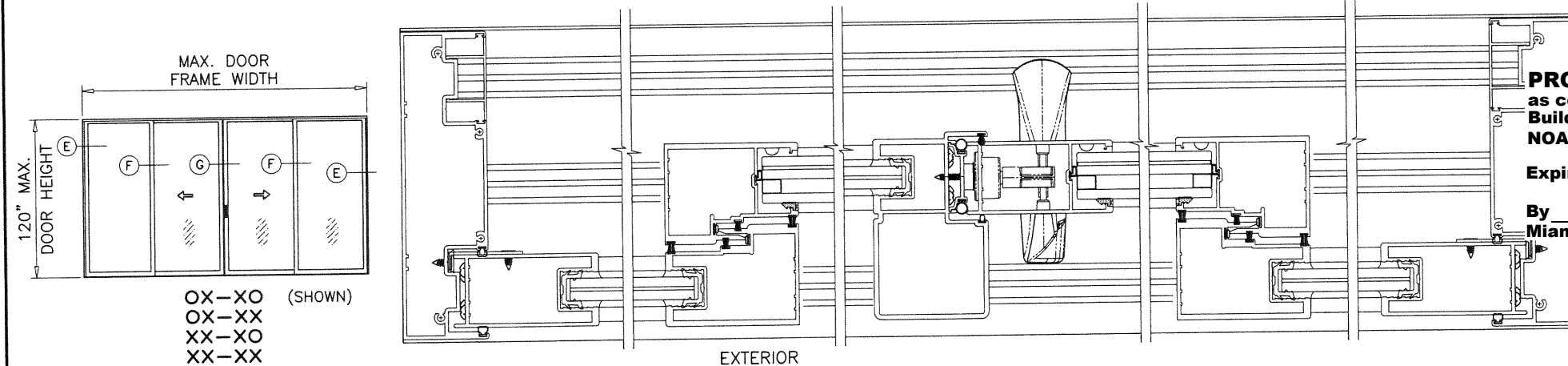
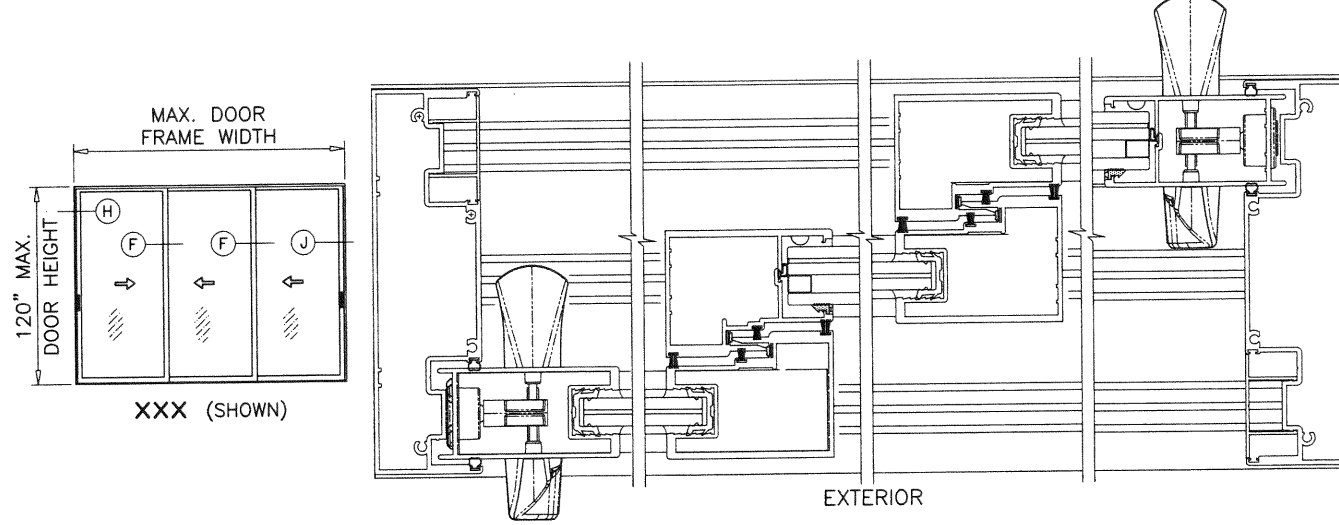
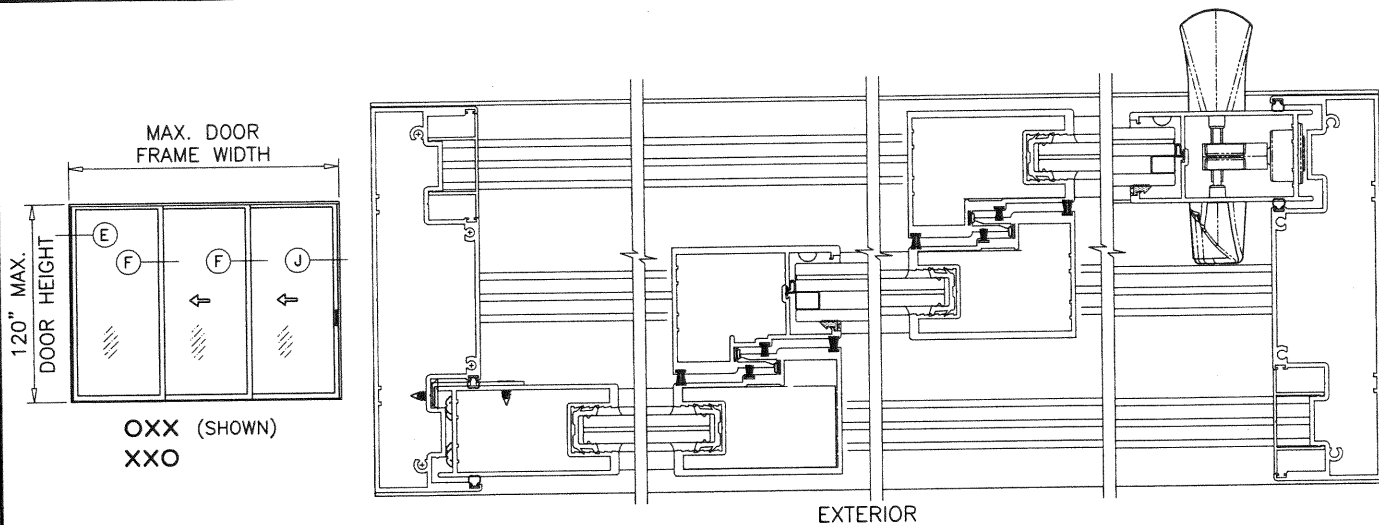


NOV 10 2020

<b>AL-FAROOQ CORPORATION</b> ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 262-6978 FAX. (305) 264-8100		SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)	
<b>E.S. WINDOWS, LLC</b> 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158		revisions:	
date: 08-30-17	by: description	no: 11.13.17	rev: PER RER COMMENTS
scale: -		B 11.06.20	UPDATED TO 2020 FBC
dr. by: TARIQ			
chk. by:			
drawing no. W17-78		sheet 5 of 16	

COMP-ANL\W17-78ESW





### 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)

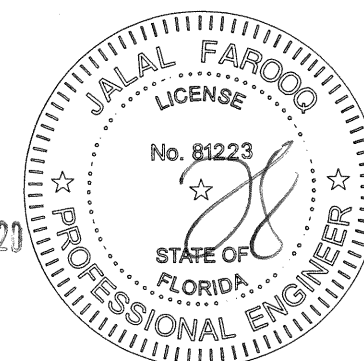
#### NOTE:

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 RENEWED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 22-1220.07  
 Expiration Date 03/28/2028  
 By *Ishag I. Chande*  
 Miami-Dade Product Control

**PRODUCT REVISED**  
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NOV 10 2020

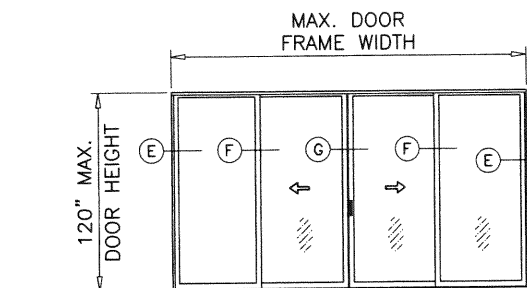


**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 (C.A.N. 3538)

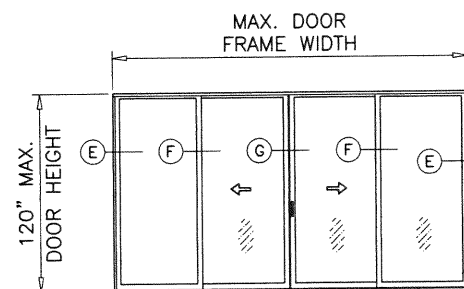
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
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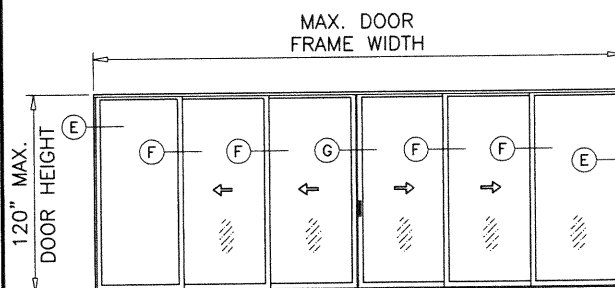
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		B	11.06.20		UPDATED TO 2020 FBC
date:	08-30-17	scale:	-	dr. by:	TARIQ
chk. by:					
drawing no.	W17-78				
sheet	6 of 16				



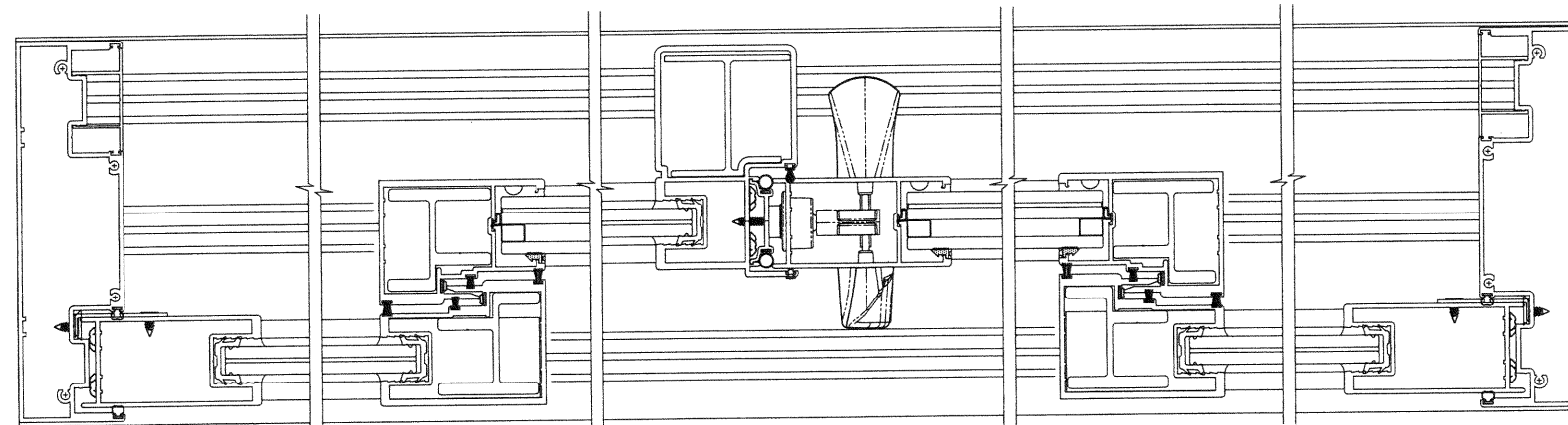
OX-XO (SHOWN)



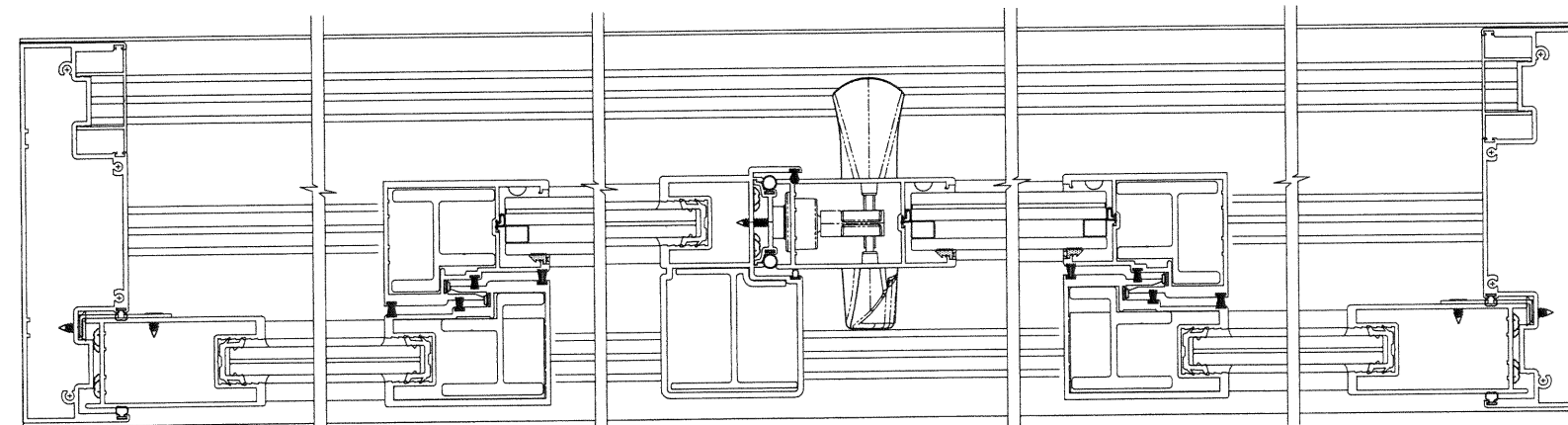
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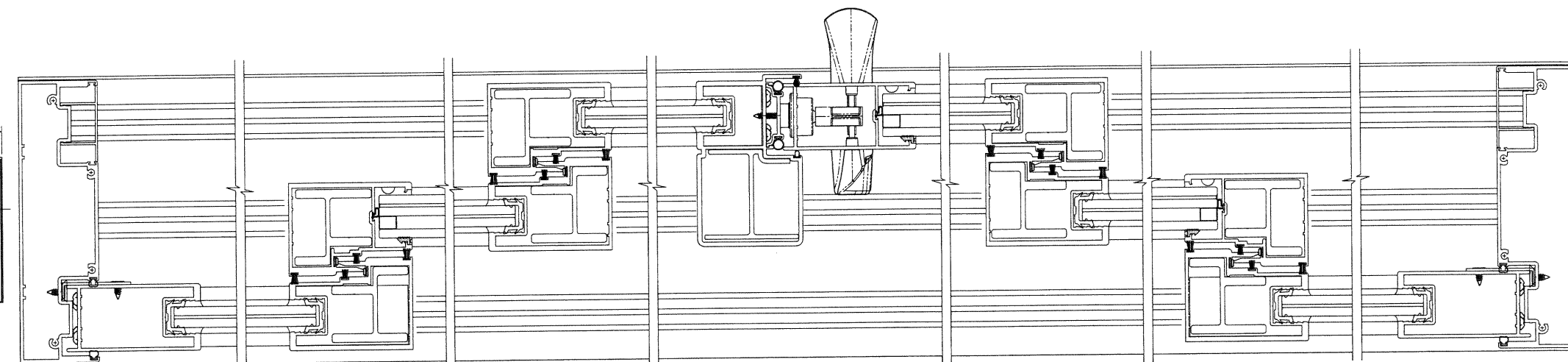
OXX-XXO (SHOWN)



EXTERIOR



EXTERIOR



EXTERIOR

NOTE:

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.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-1220.07

Expiration Date 03/28/2028

By Ishtaq I. Chande  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.08

Expiration Date 03/28/2023

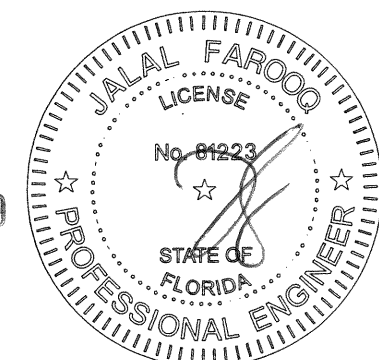
By Ishtaq I. Chande  
Miami-Dade Product Control

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)

NOV 10 2020



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

no	date	by	description
A	11.13.17		REV. PER RER COMMENTS
B	11.06.20		UPDATED TO 2020 FBC

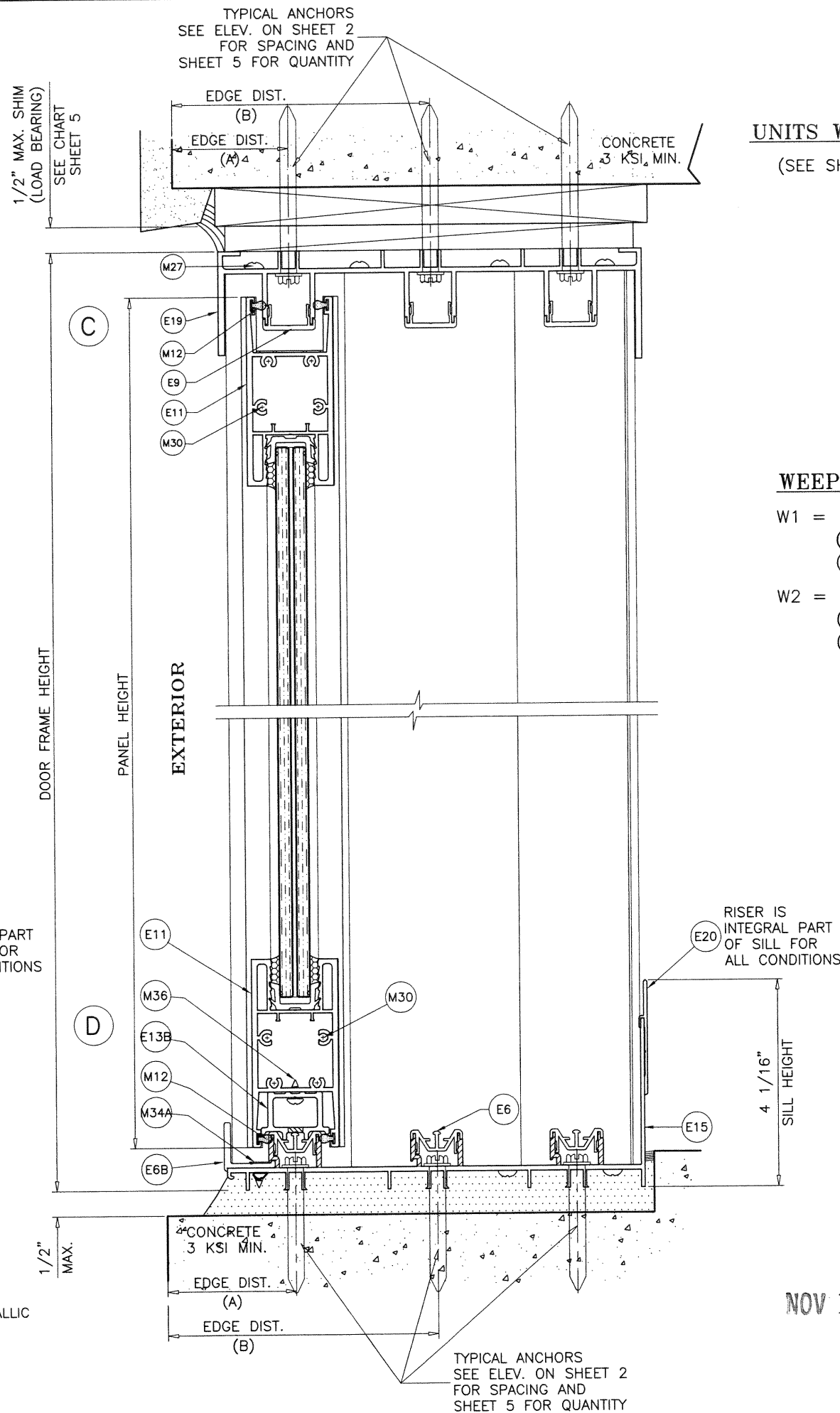
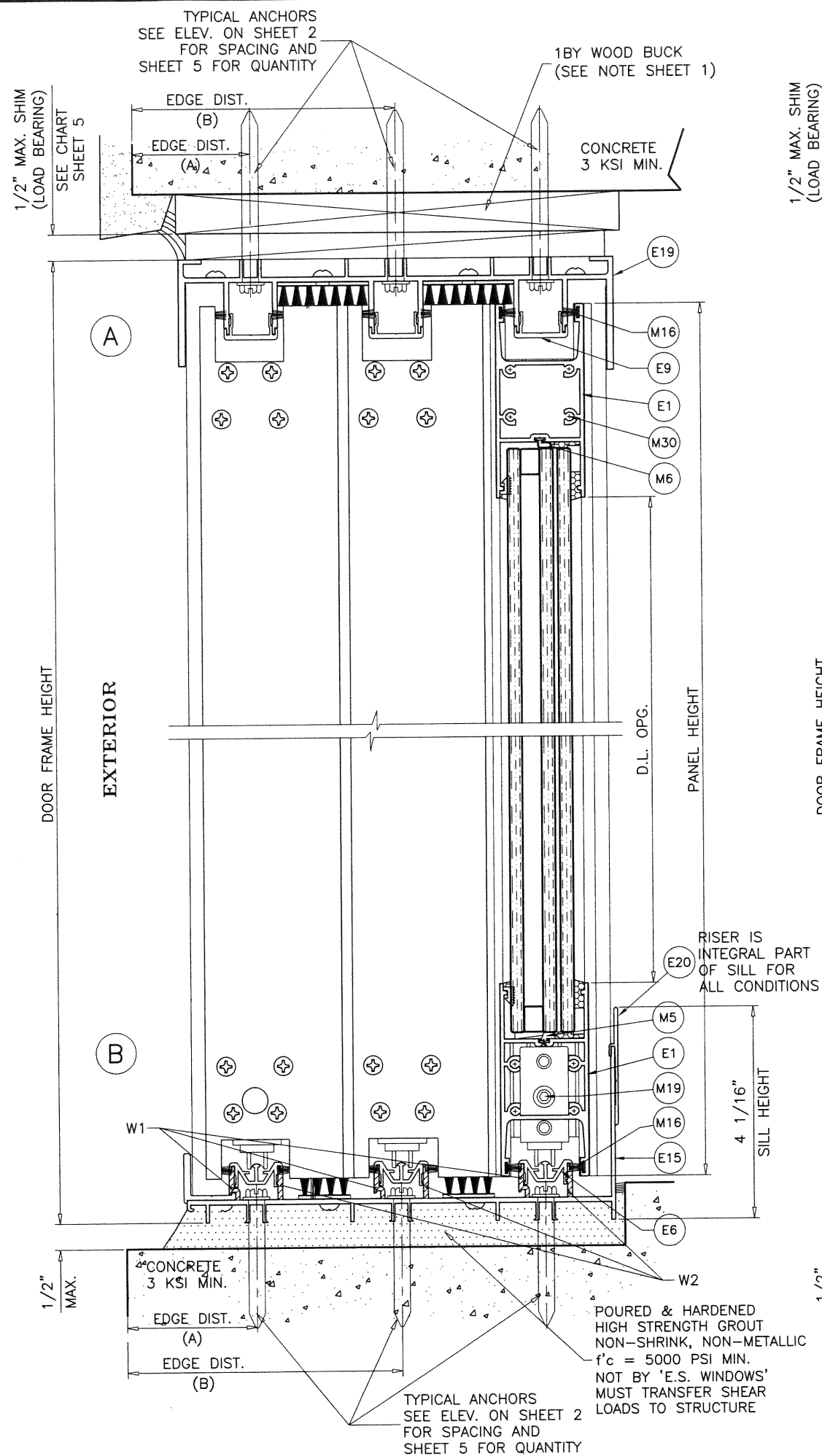
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scale:	-
dr. by:	TARIQ
chk. by:	

drawing no.  
**W17-78**

sheet 6.1 of 16

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W17-78ESW





# UNITS WITHOUT HEAD RECEPTORS (SEE SHEET 9 WITH HEAD RECEPTOR)

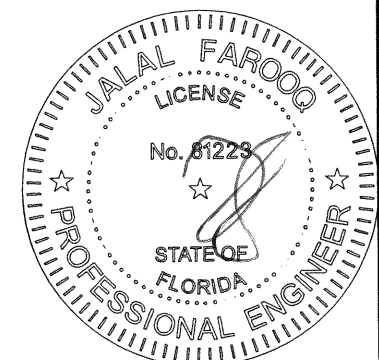
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-1220.07  
Expiration Date 03/28/2028  
By Ishaq I. Chande  
Miami-Dade Product Control

## 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.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.08  
Expiration Date 03/28/2023  
By Ishaq I. Chande  
Miami-Dade Product Control

NOV 10 2020



**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
date:	08-30-17			
scale:	3/8" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	W17-78			
sheet	7 of 16			

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/VO 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

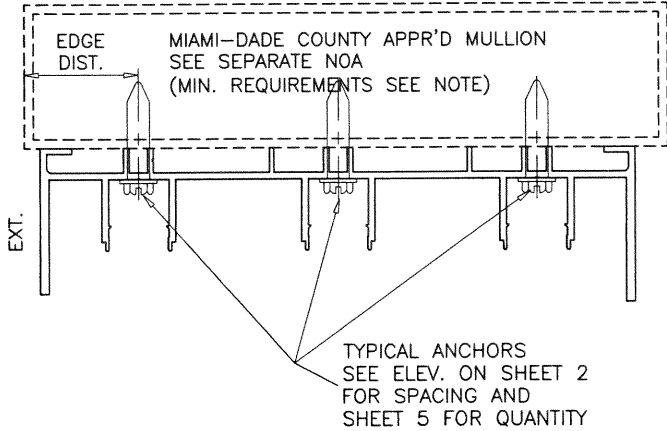
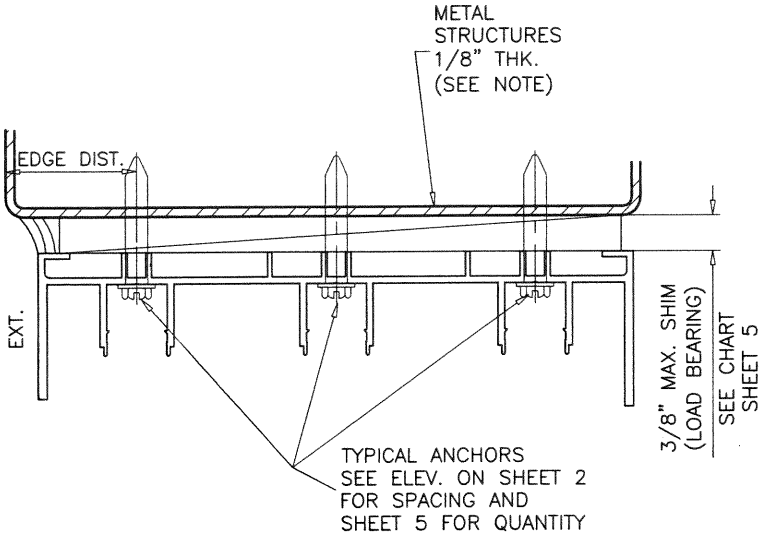
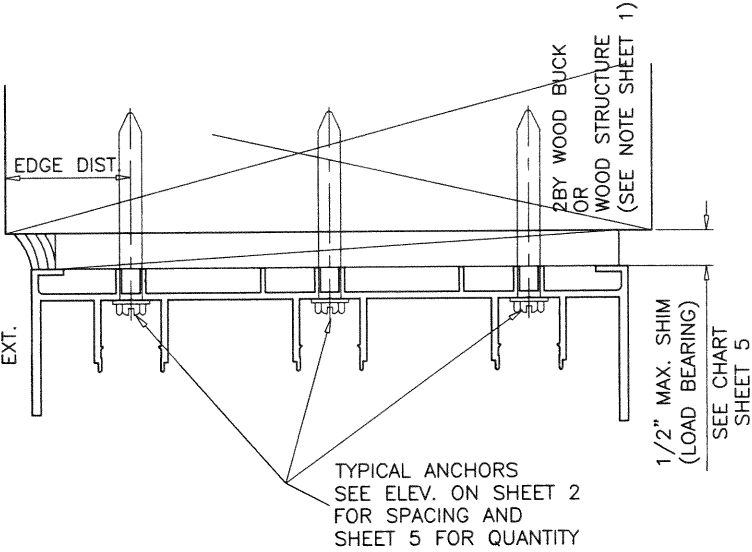
**5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)

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.



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NOA-No. 22-1220.07

Expiration Date 03/28/2028

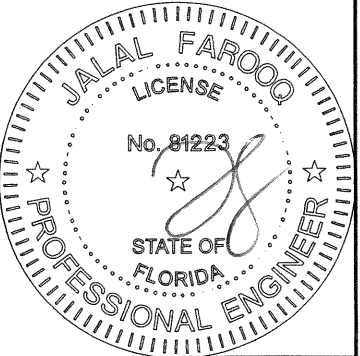
By *Ishaq I. Chande*  
Miami-Dade Product Control

**PRODUCT REVISED**  
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Expiration Date 03/28/2023

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

ALTERNATE SUBSTRATES FOR UNITS WITHOUT HEAD RECEPTORS



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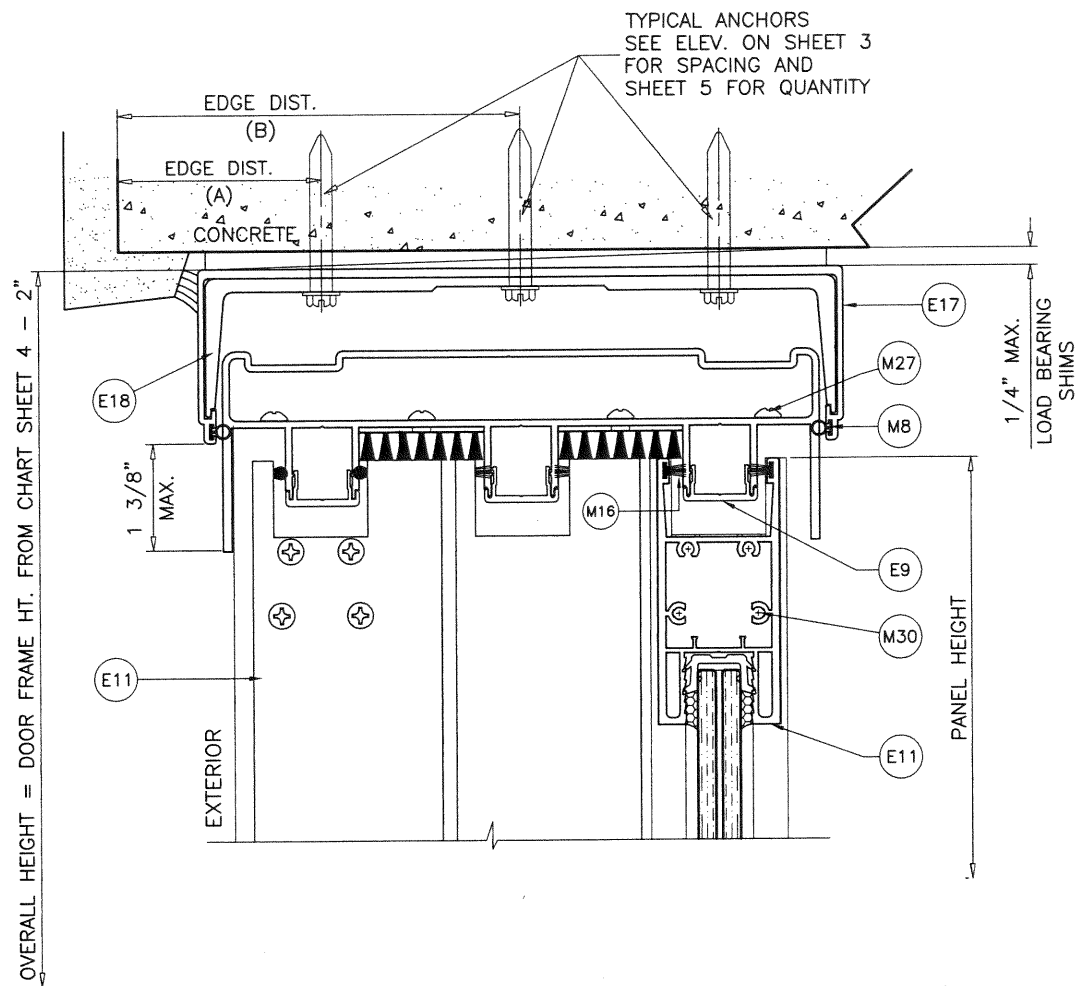
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
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COMP-ANL\W17-78ESW

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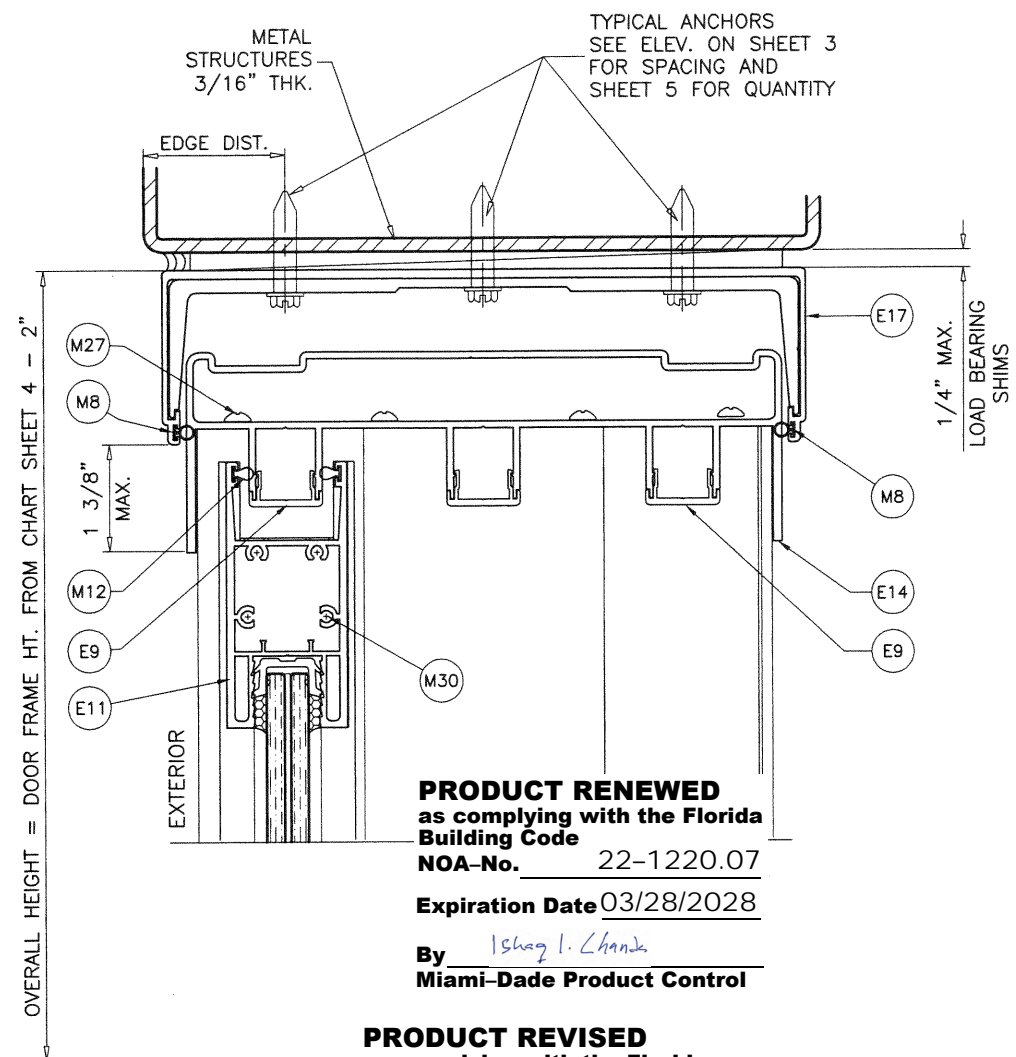
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date: 08-30-17		scale: 3/8" = 1"	
		dr. by: TARIQ	
		chk. by:	
drawing no.		W17-78	
sheet		8 of 16	



(A1)  
OPTIONAL



(C1)  
OPTIONAL



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Miami-Dade Product Control

#### 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) —

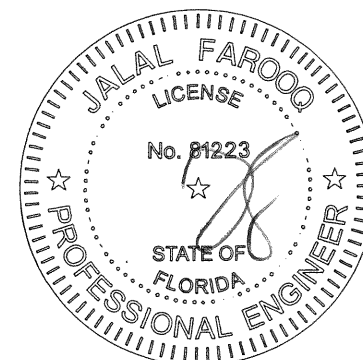
TYPE 'D'— **5/16" DIA. ULTRACON BY 'DEWALT'** ( $F_u=177$  KSI,  $F_y=155$  KSI)  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED

**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. ( $F_y = 36$  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.

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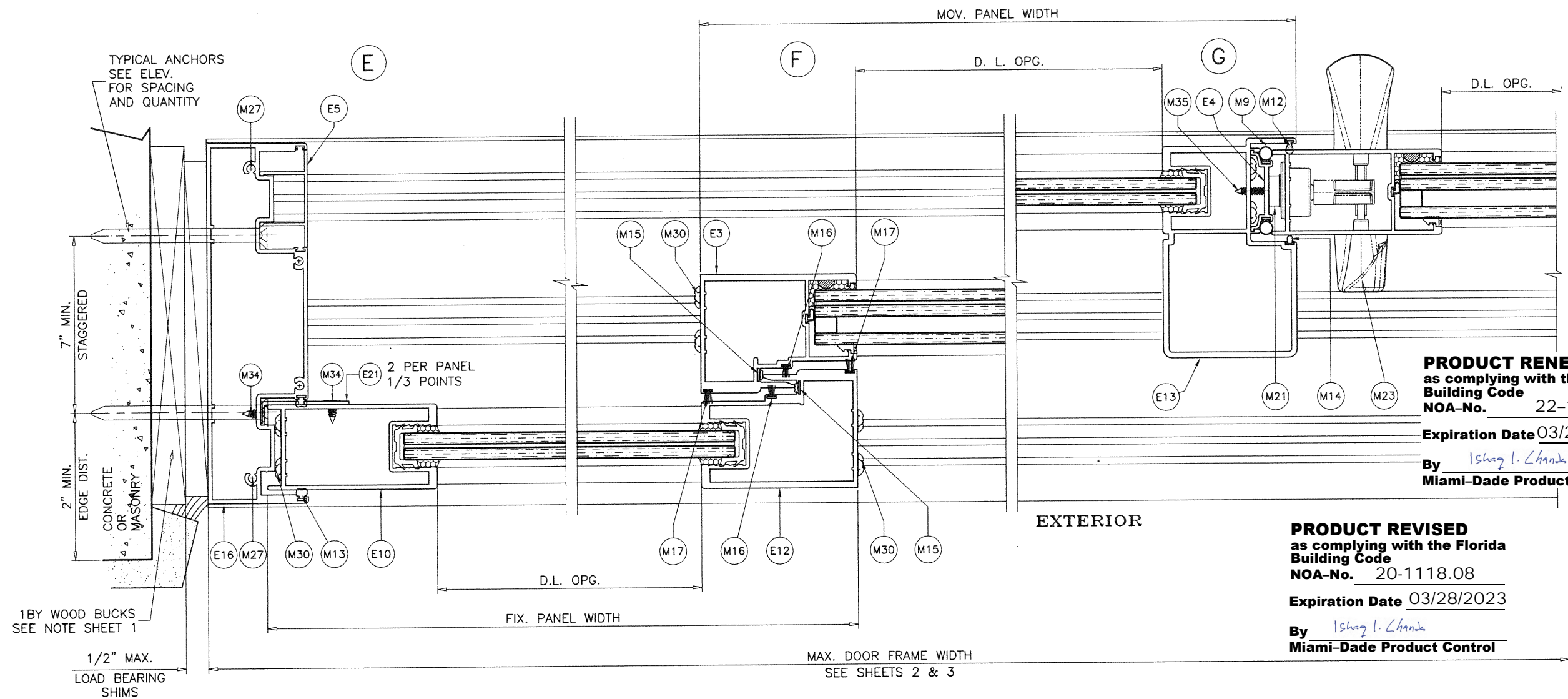
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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drawing no. W17-78		chk. by:		sheet 9 of 16	

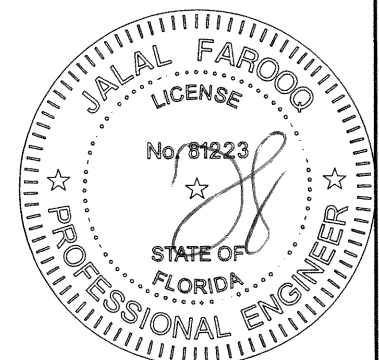
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COMP-ANL\W17-78ESW



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

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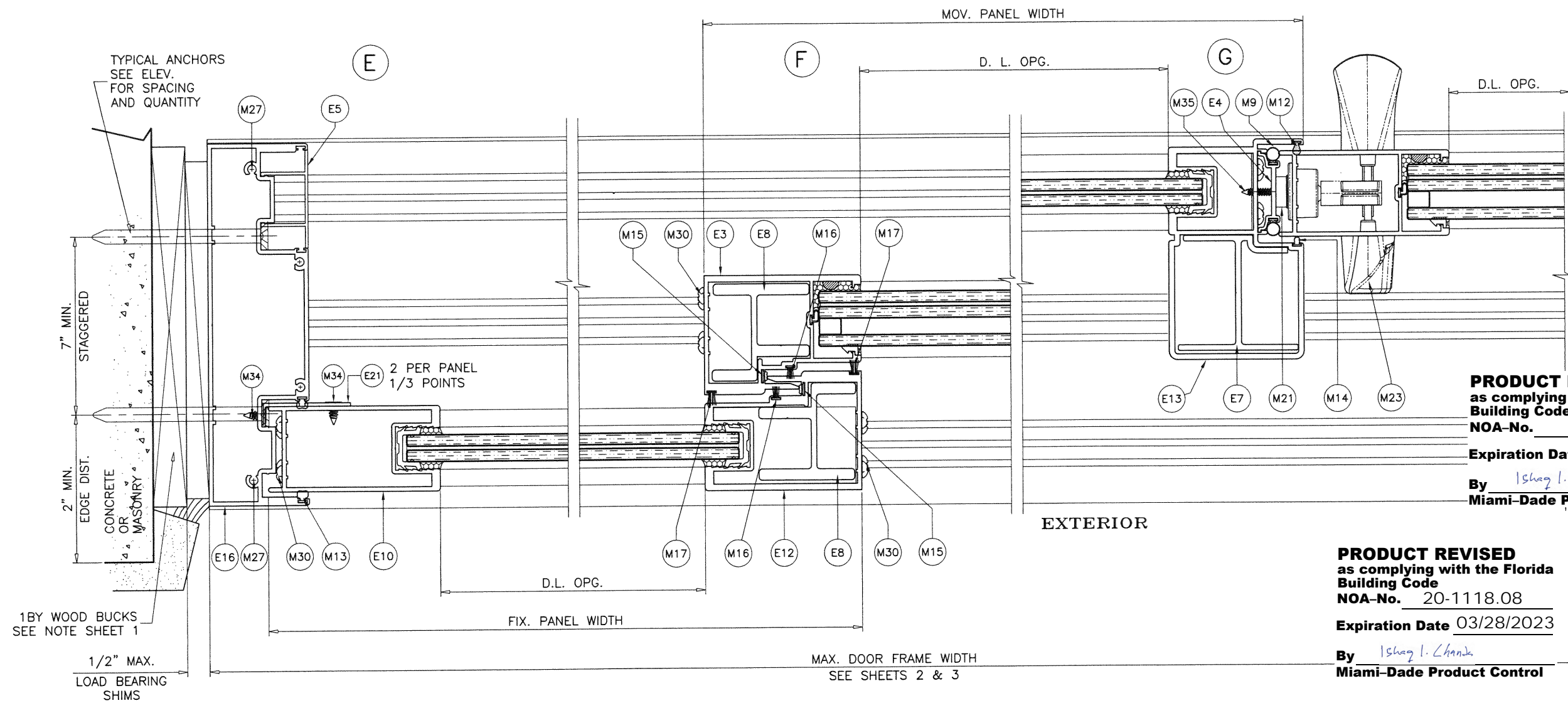
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chk. by:

drawing no.  
**W17-78**  
sheet 10 of 16



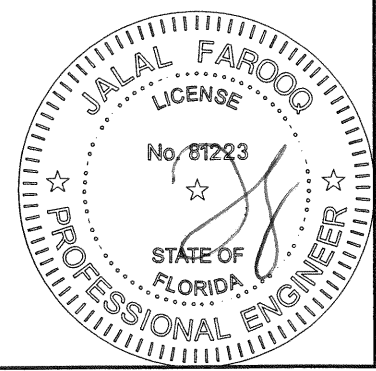


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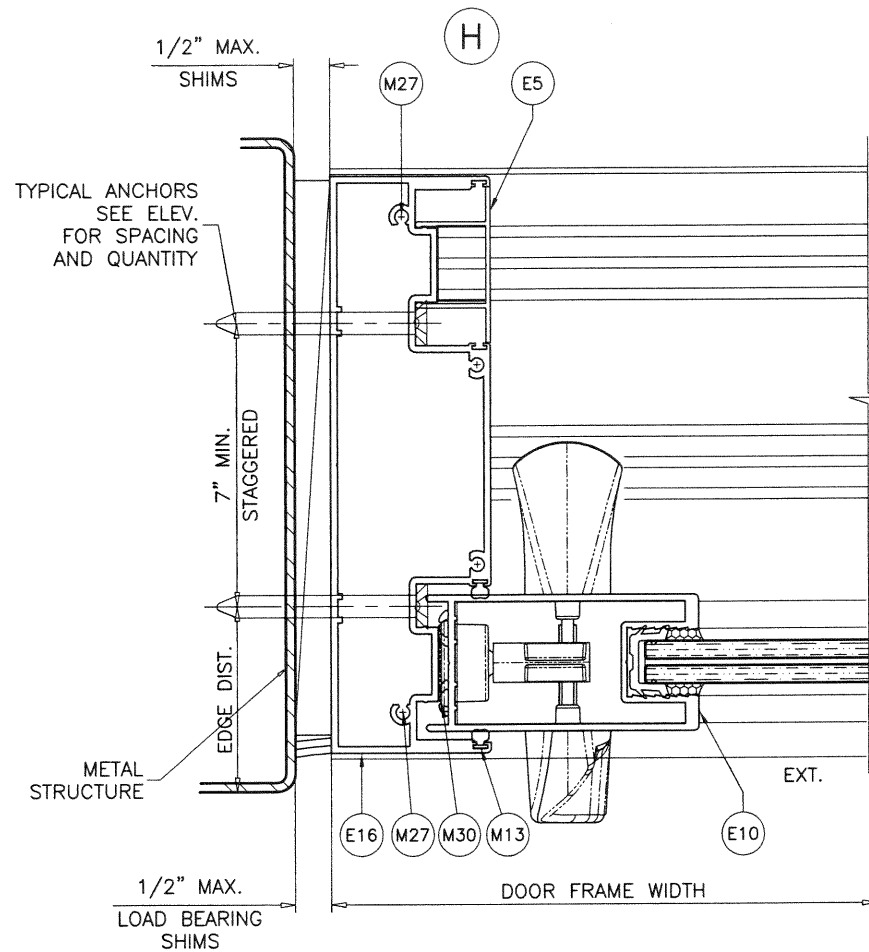
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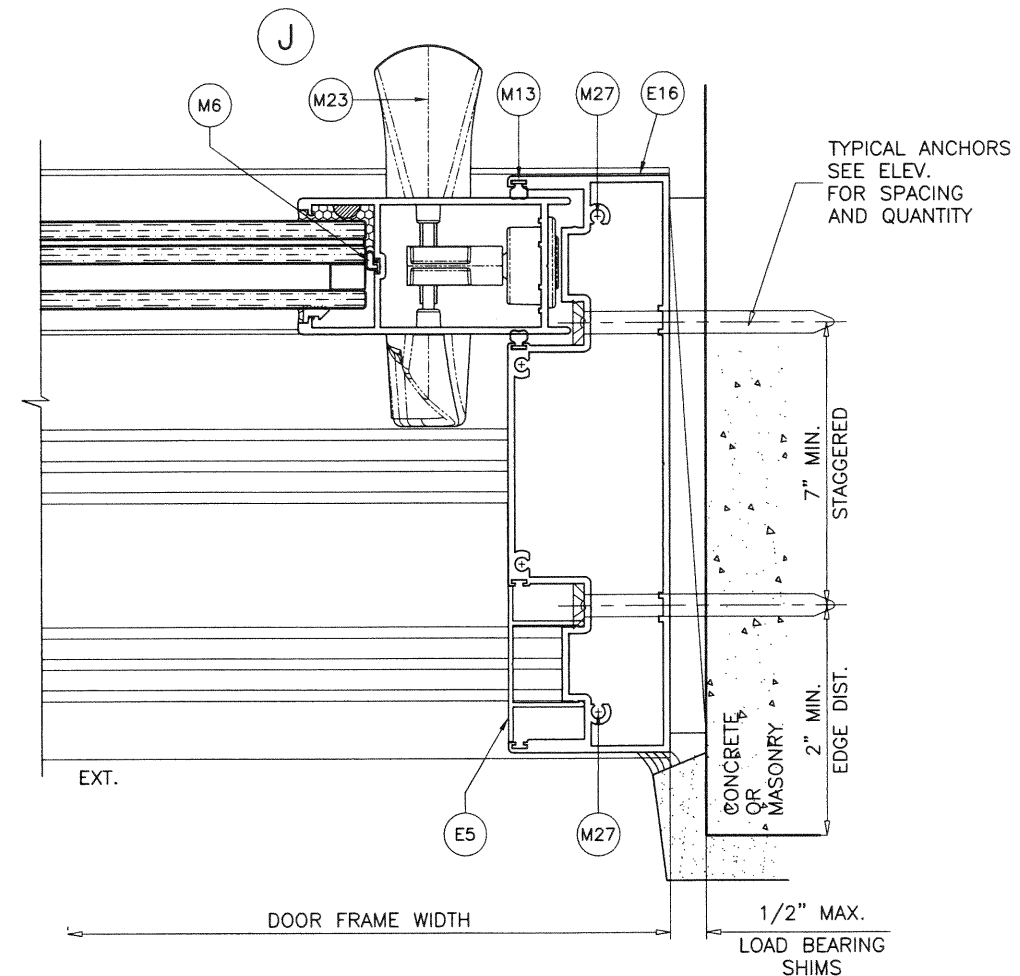
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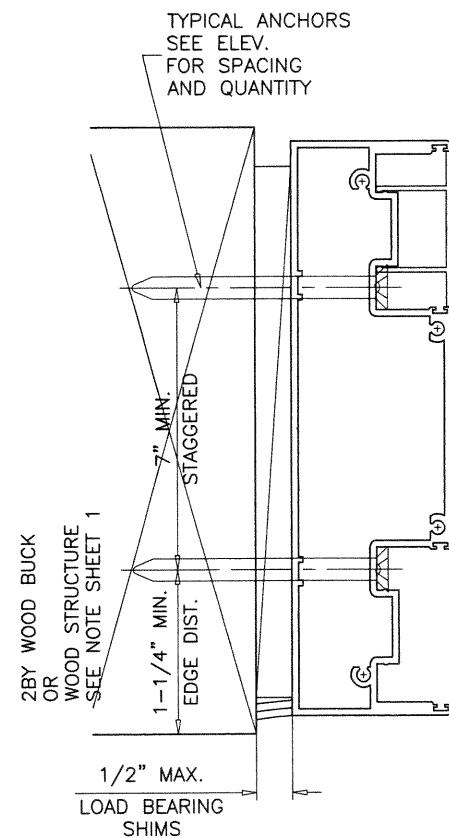
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UN-REINFORCED S.G.D.



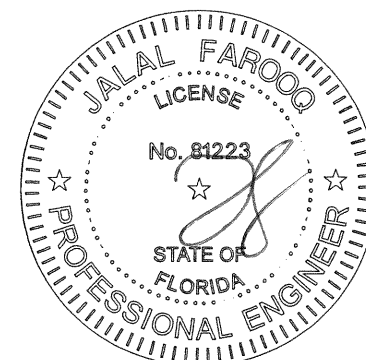
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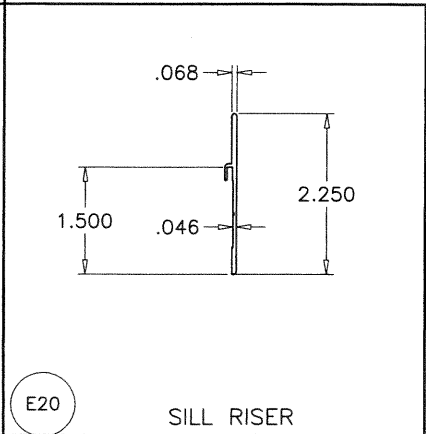
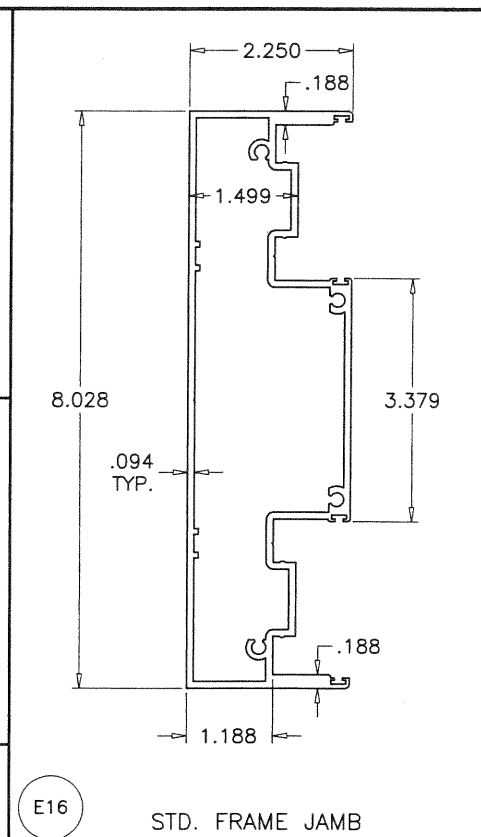
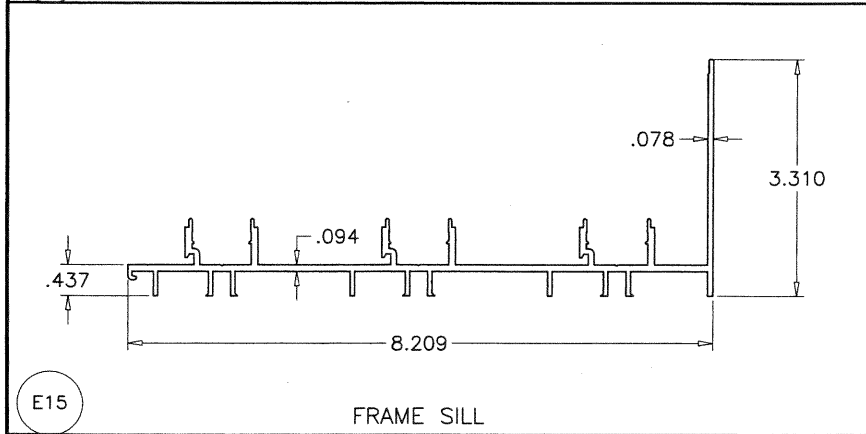
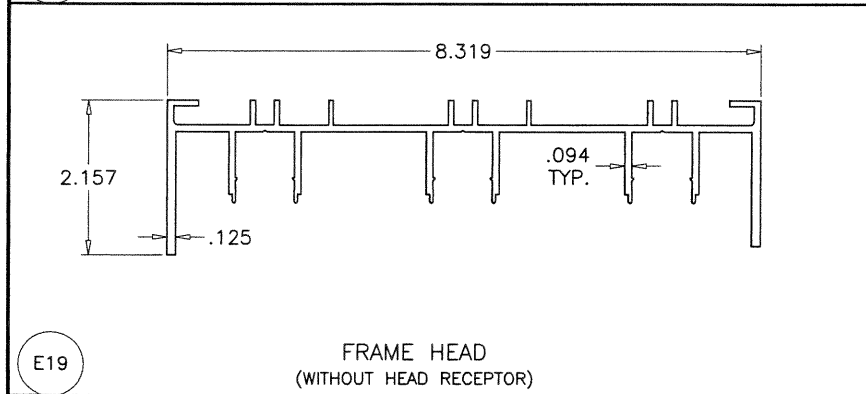
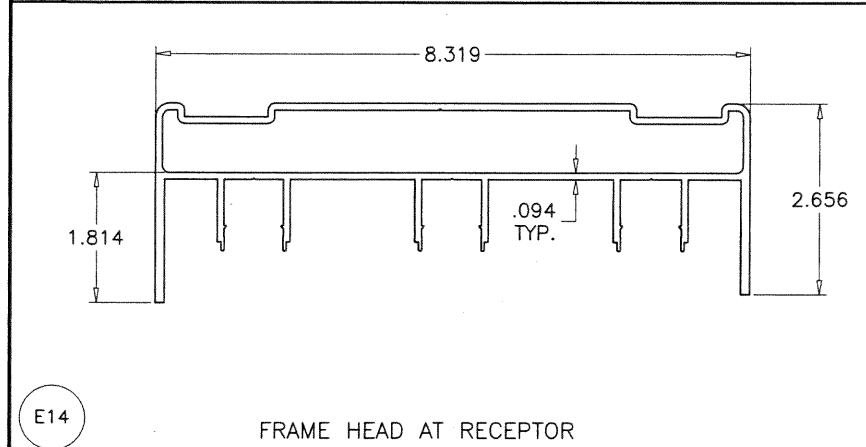
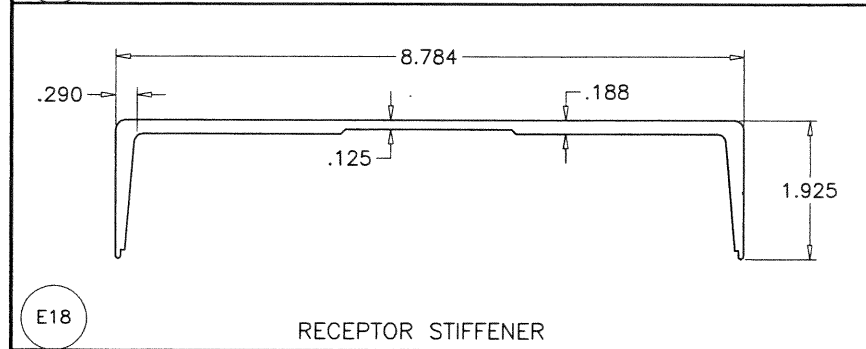
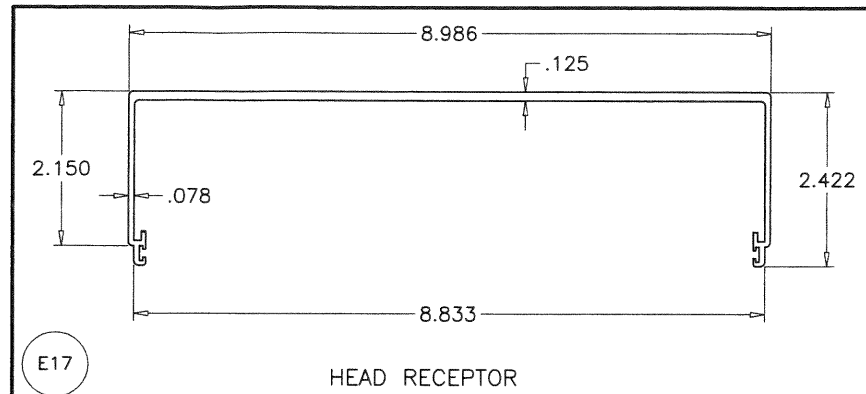
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sheet 11 of 16







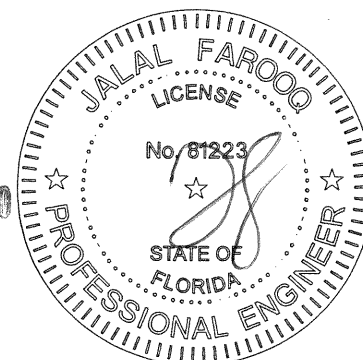




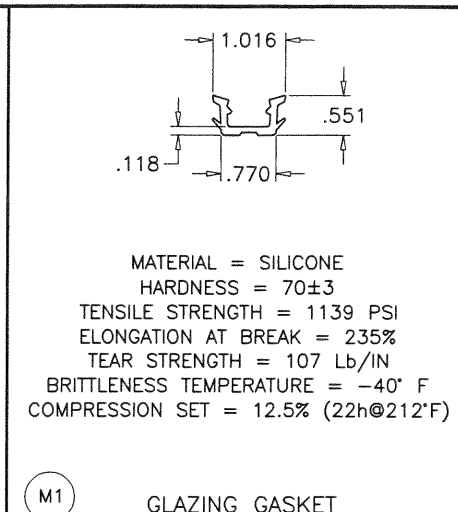
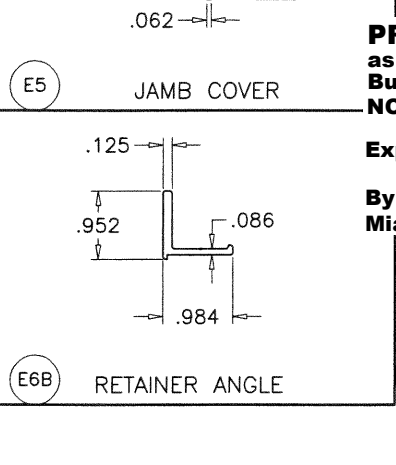
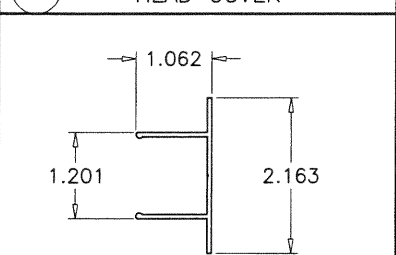
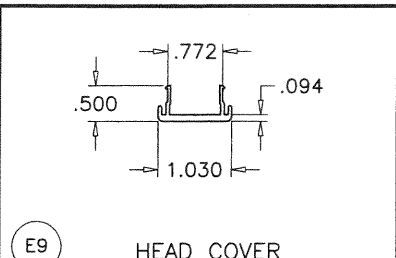
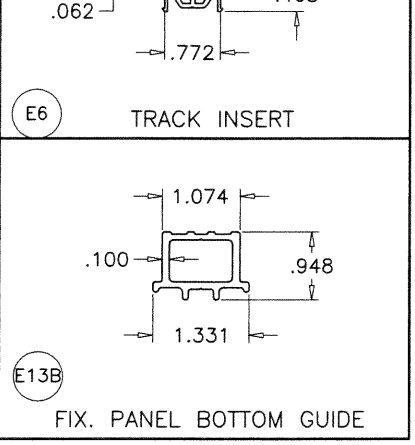
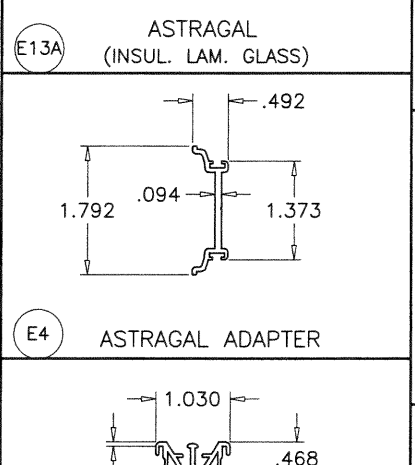
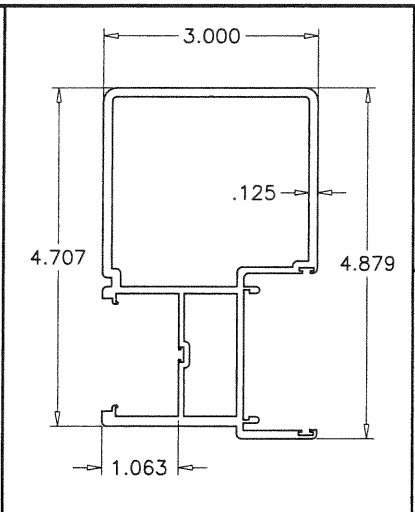
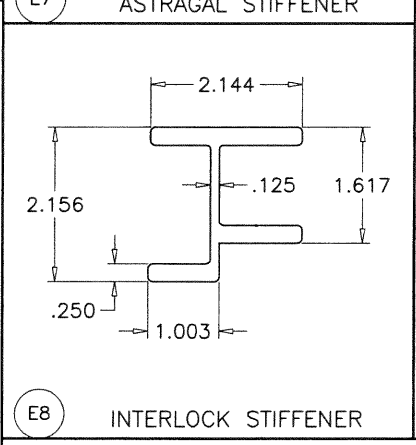
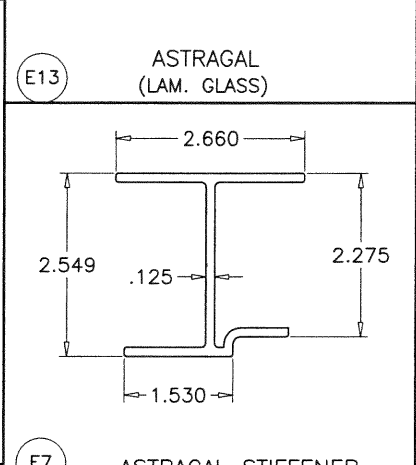
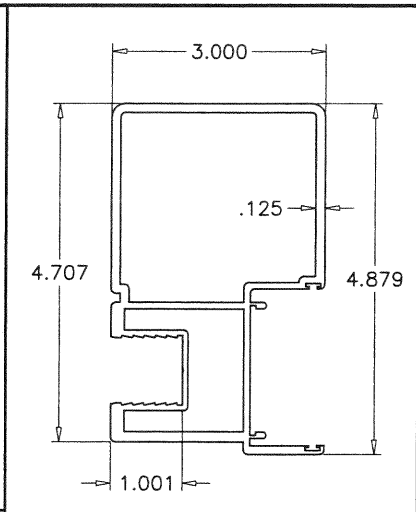
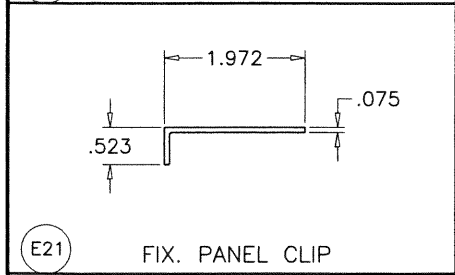
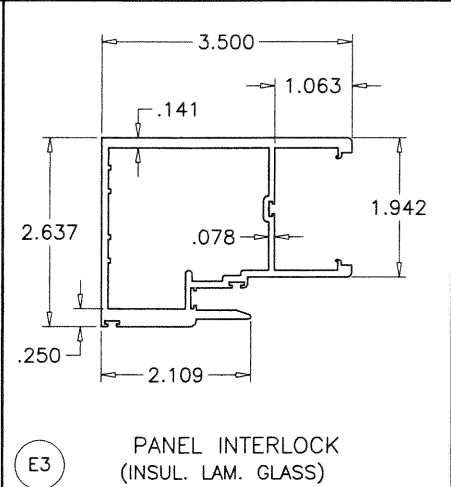
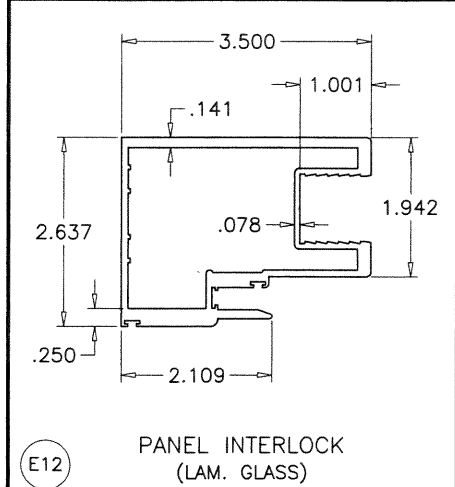
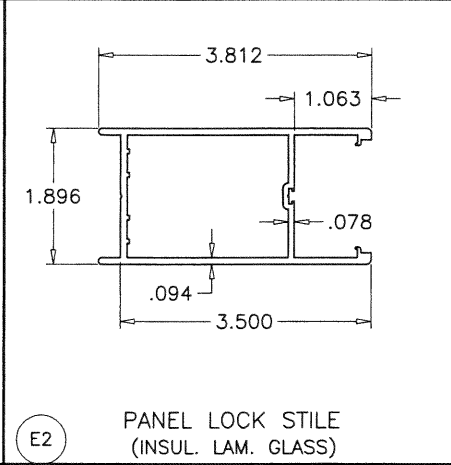
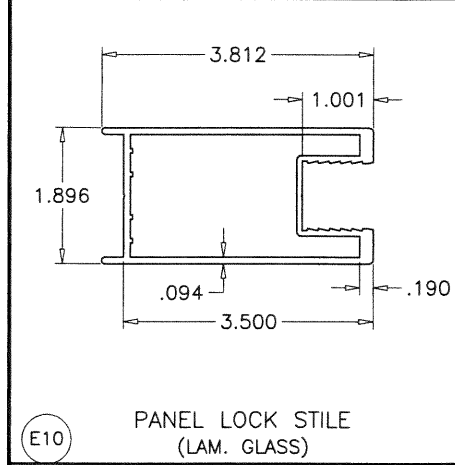
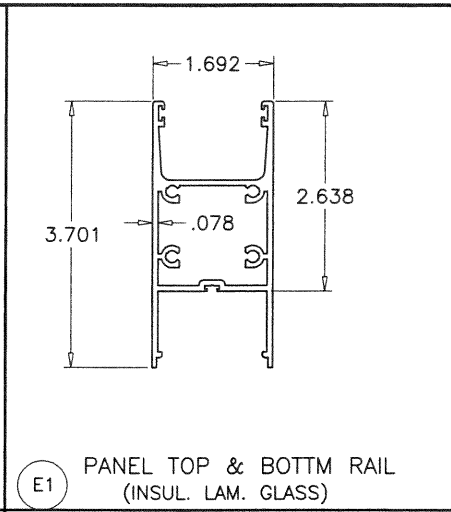
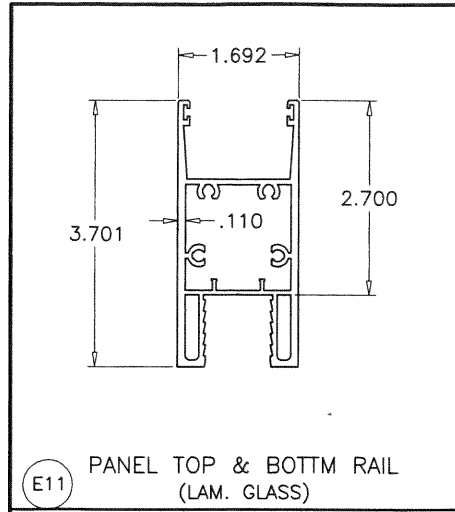
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Miami-Dade Product Control

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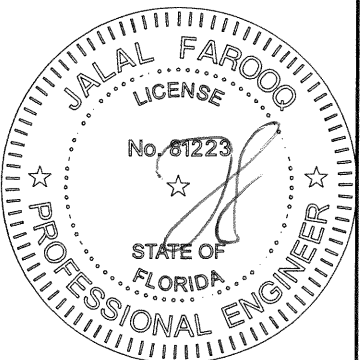
<b>AL-FAROOQ CORPORATION</b> ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 262-6978 FAX. (305) 262-6978 COMP-ANL\W17-78ESW		<b>E.S. WINDOWS, LLC</b> 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
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drawing no.		sheet 14 of 16	



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

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Miami-Dade Product Control



NOV 10 2020

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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:		date:	no.	description
A	11.13.17	11.13.17	1	NO CHANGE THIS SHEET
B	11.06.20	11.06.20	2	UPDATED TO 2020 FBC

date: 08-30-17

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no. **W17-78**

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