



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

E.S. Windows, LLC
10653 NE Quaybridge Ct.
Miami, FL 33138

SCOPE:

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

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

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

DESCRIPTION: Series "6100" Aluminum Sliding Glass Doors 2-tracks (Wet glazed) w/ reinforcements-SMI

APPROVAL DOCUMENT: Drawing No. **W07-26 Rev O**, titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 04-04-07 and last revised on Jun 23, 2021, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

Limitations:

1. See Design Pressures (DP) Vs reinforcements & glazing options charts in sheets **3**.
2. See Head/ sill anchors capacities charts in sheet **5**. See Jambs anchor spacing Vs DP per sheet **1**.
3. Lower DP sheet 3 or anchor capacity chart, shall control for the entire system.
4. Glass lites wider than 36" shall have two setting blocks per FBC requirements. Max. 3/8" wide Alum spacer.
5. See approved configurations in sheet **2**. Max. Door frame width not to exceed 192" and 120" frame height.

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

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA #18-0129.06** and consists of this page 1 and evidence pages E-1, E-2, E-3 & 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. 21-0628.17
Expiration Date: June 14, 2023
Approval Date: August 19, 2021
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous files

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files referenced below)
2. Drawing No. **W07-26 Rev L**, titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 04-04-07 and last revised on 12/14/15, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014, 5th edition, prepared by Al Farooq Corporation, dated 12/21/15, 12/10/15, 08/13/15, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to Kuraray America, Inc. for their "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/18.
2. Notice of Acceptance No. **14-0916.10** issued to Kuraray America, Inc. for their "**Butacite ® PVB Glass Interlayer**", expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014, 5th edition and letter of no financial interest, prepared by Al Farooq Corporation, dated 08/13/2015, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA **revises** NOA #**13-1008.04**, expiring on 06/14/18

2. Evidence submitted in previous files

A. DRAWINGS

1. Drawing No. **W07-26 Rev I**, titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 04-04-07 and last revised on MAR 10, 2014, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under files #13-1008.04/ #12-0223.45/ #09-1217.02)

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Small Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of OX aluminum sliding glass door, prepared by, prepared by Fenestration Testing Laboratories, Test Report No. **FTL7572 (FTL 10384)** dated 11/03/13, signed and sealed by Marlin D. Brinson, P.E.

Isaac I. Chanda
Isaac I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0628.17
Expiration Date: June 14, 2023
Approval Date: August 19, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continue):

2. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Small Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of OXXX aluminum sliding glass door, prepared by, prepared by Fenestration Testing Laboratories, Test Report No. **FTL- 6293 (FTL 10063)**, dated 10/15/10 and **FTL- 5669 (FTL 08057)**, signed and sealed by Jorge A. Causo, P.E. and Michael Wenzel, P.E. respectively. (Submitted under files # **09-1217.02/#12-0223.45**)

2. Additional Test reports (transferred from file # **07-0828.08**)
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Small Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of aluminum SGD, prepared by Fenestration Testing Laboratories, Test Report No. **FTL- 5076(FTL06165)**, dated 02/22/07, **FTL- 5157(FTL061116)**, dated 02/14/07 and **FTL- 5158(FTL06115)** dated 02/13/07, all signed and sealed by Michael Wenzel, P.E.

(The test report No. **FTL- 5076** has been revised an addendum letter dated July 10, 2007, issued by Fenestration testing lab, signed & sealed by Carlos S. Roinda, P. E.)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 03/06/14, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont De Nemours & Co., Inc. for their “**DuPont Sentry Glass ® Interlayer**”, expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont De Nemours & Co., Inc. for their “**DuPont Butacite PVB ® Interlayer**”, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance to FBC 2010 and letter of no financial interest, prepared by Al Farooq Corporation, dated 10/02/13, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0628.17
Expiration Date: June 14, 2023
Approval Date: August 19, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (continue)

3. E-mail dated Nov 14, 2013, issued by Fenestration Testing Lab for Test report # FTL 6293 for part# ES-6023 height confirmation being 3.5", signed by Ms. Lliana Sanchez.
4. Distribution agreement dated 03/05/14 between ES Windows, LLC and Energia Solar SA, Colombia, signed by Andres Chamorro (Gen MGR) and Clara Garcia (Sales MGR), respectively on behalf of their companies

G. OTHER

1. This NOA revises & renews NOA # 09-1217.02 & 12-0223.45, expiring on 06/14/14.
2. Test proposals, # 11-0843 dated July 20, 2011, # 10-0466, dated 07-04-10, # 08-0847, dated 06-24-08 and # 06-0305, dated 07/18/06 approved by BCCO.
3. Additional reference NOA file # 13-1007.03 (Series 6100 Alum SGD w/ reinf (Dry glazed)).
4. Previous associated NOA(s) files are #12-0223.45, #09-1217.02, #07-0828.08 and #07-0411.12.

3. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No. **W07-26 Rev N**, titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 04-04-07 and last revised on SEP 04, 2018, signed and sealed by Javad Ahmad, P.E.

B. Test

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al Farooq Corporation, dated 03/06/14, signed and sealed by Javad Ahmad, P.E.

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 DE Nemours) for the "Sentry Glass ® clear & white interlayer", expiring on 07/04/23.
2. Notice of Acceptance No. **16-1117.01** issued to Kuraray America., Inc. for their "Trosifol ® Ultraclear, Clear and Color PVB Glass Interlayers", expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (6th Edition) and "No financial interest" dated 01/12/18, prepared by the manufacturer, signed and sealed by Javad Ahmad, P.E.

G. OTHER

1. This NOA revises & renews NOA(s) #15-0430.02 (#13-1008.04), expiring 06/14/2023.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0628.17
Expiration Date: June 14, 2023
Approval Date: August 19, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **W07-26 Rev O**, titled “Series -6100 Alum Sliding Glass Door (SMI)”, sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated 04-04-07 and last revised on Jun 23, 2021, signed and sealed by Jalal Farooq, P.E.

B. Test

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2020, prepared by Al Farooq Corporation, dated May 17, 2021, signed and sealed by Jalal Farooq, P.E.

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 DE Nemours) for the “**Sentry Glass ® clear & white interlayer**”, expiring on 07/04/23.
2. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance to FBC 2020 (7th Edition) and “No financial interest” dated 05/17/21, prepared by the manufacturer, signed and sealed by Jalal Farooq, P.E.

G. OTHER

1. This NOA revises #18-0129.06, expiring 06/14/2023.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0628.17
Expiration Date: June 14, 2023
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DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
D.L.O. WIDTH = PANEL WIDTH - 6.937"
PANEL HEIGHT = DOOR FRAME HEIGHT - 1.375"

SERIES-6100 ALUMINUM SLIDING GLASS DOOR

SEE SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE GLASS TYPE AND REINFORCING OPTION.

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

LOWER DESIGN PRESSURES FROM DESIGN LOAD CAPACITY (REINFORCING OPTION/GLASS TYPE) OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

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

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

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

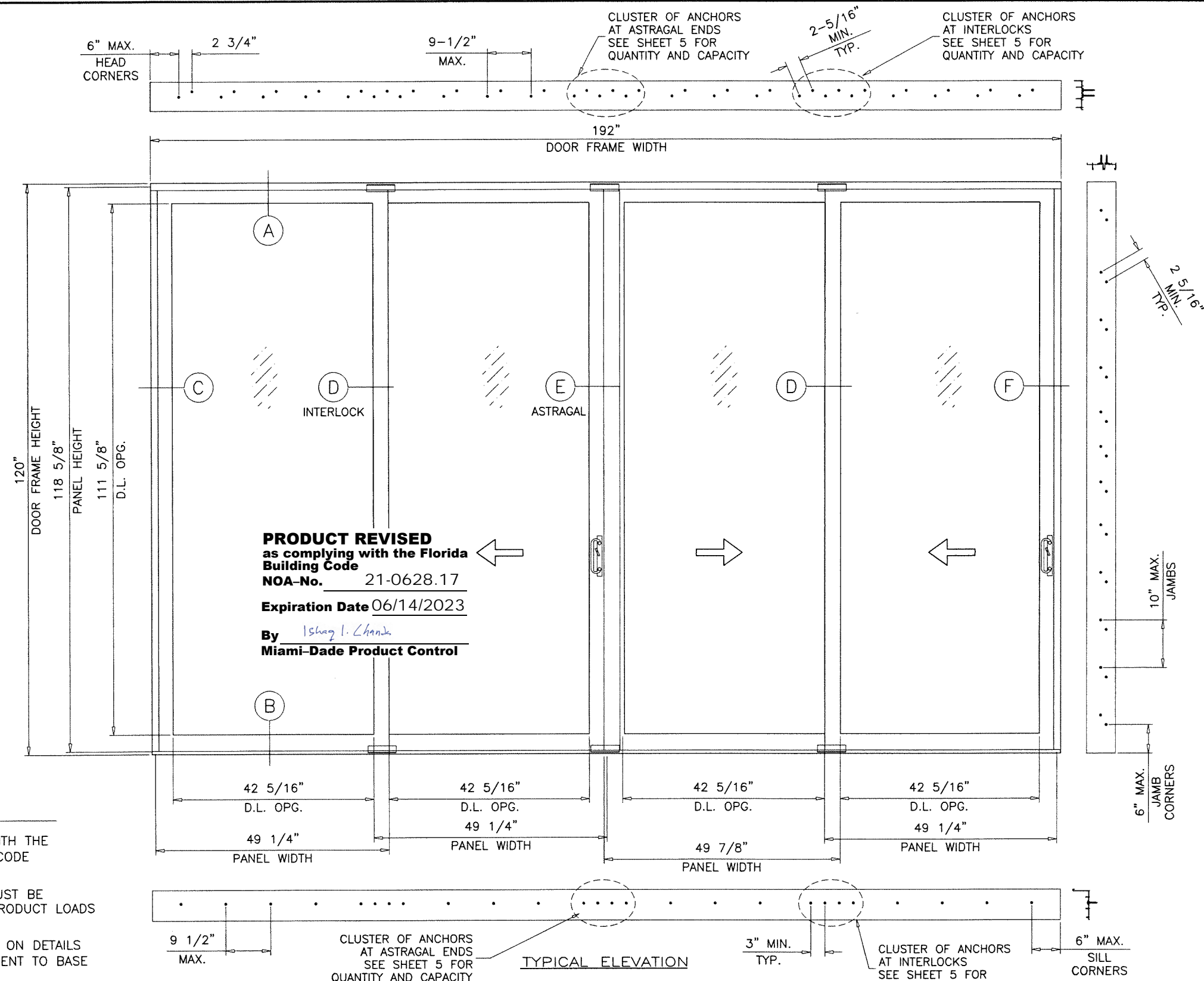
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

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

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

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

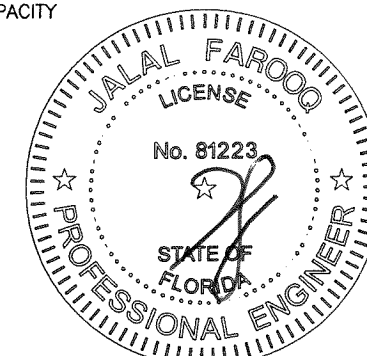


THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

INSUL. LAMINATED GLASS
WET GLAZED

JUN 23 2021



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

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

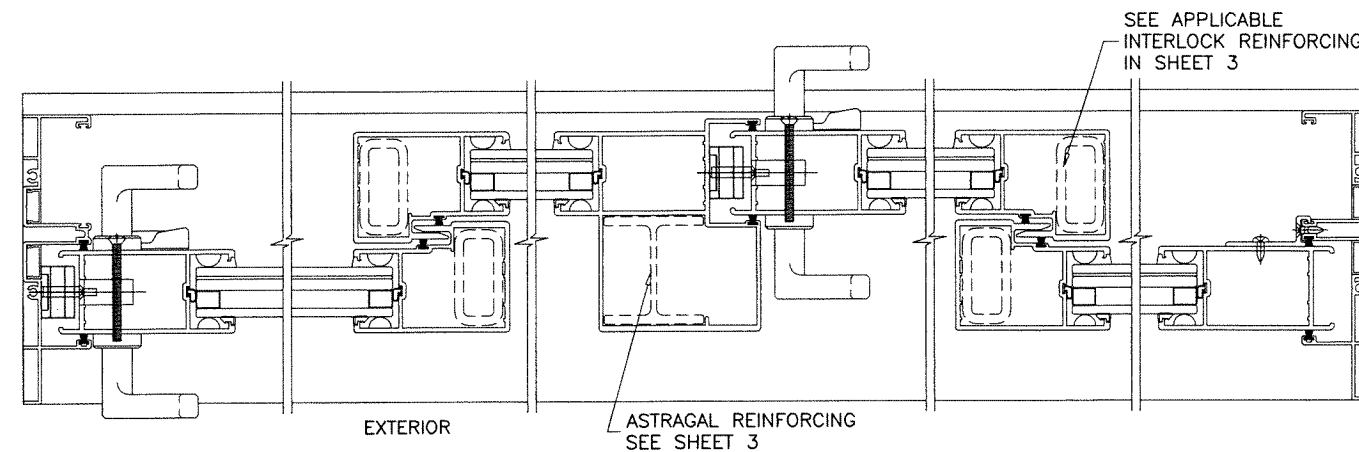
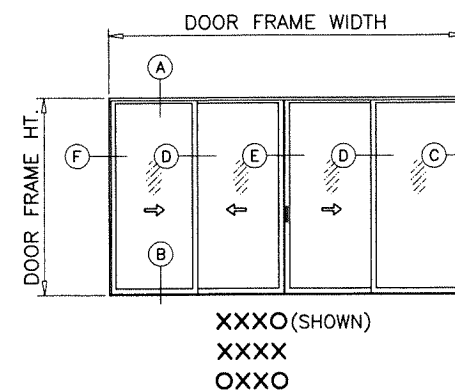
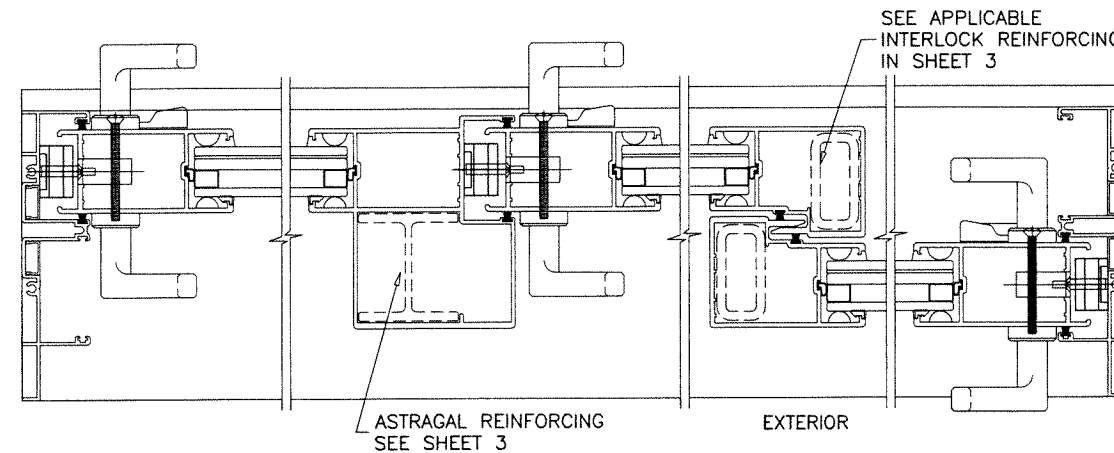
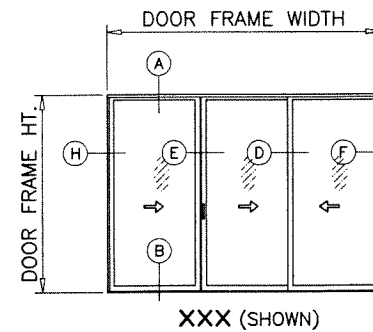
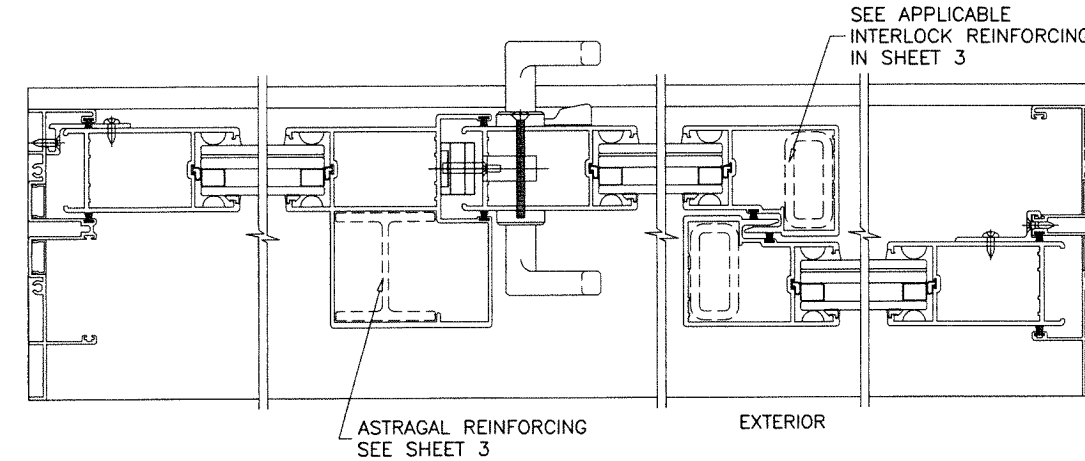
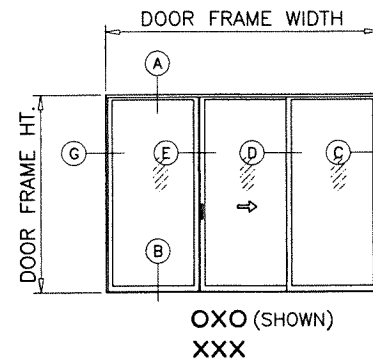
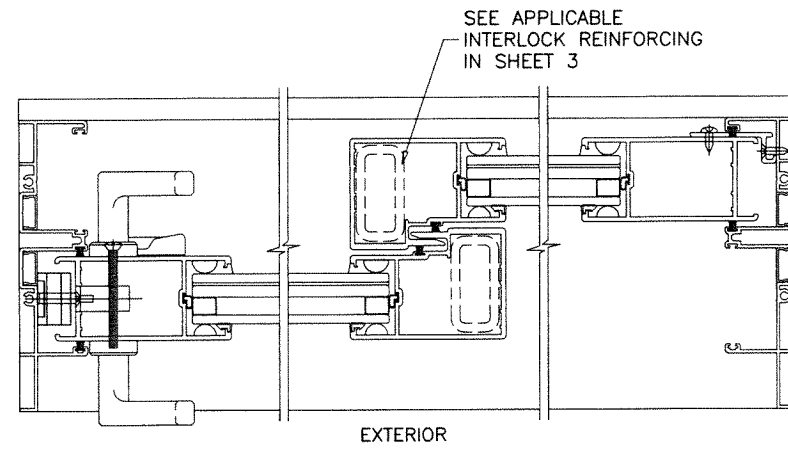
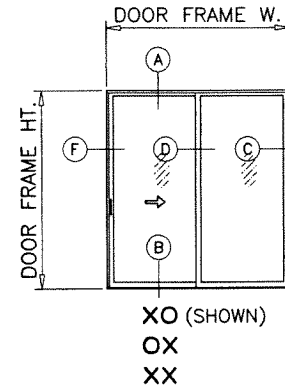
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L	12.14.15	REV. PER RER COMMENTS	
M	01.15.18	3 TRACK OPTION ADDED	
N	05.11.18	REV. PER RER COMMENTS	
O	06.21.21	UPDATED TO 2020 FBC	

date: 04-04-07
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.

W07-26

sheet 1 of 12



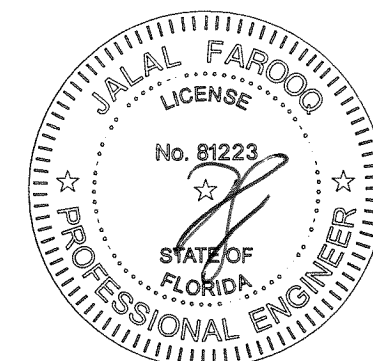
NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEET 3 AND ANCHOR INSTALLATION IN SHEET 5.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.17
Expiration Date 06/14/2023
By Ishag I. Chank
Miami-Dade Product Control

APPROVED CONFIGURATIONS

MAX. OVERALL DOOR FRAME AREA NOT TO EXCEED 160 SQ. FT.

JUN 23 2021



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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL \W07-26ES

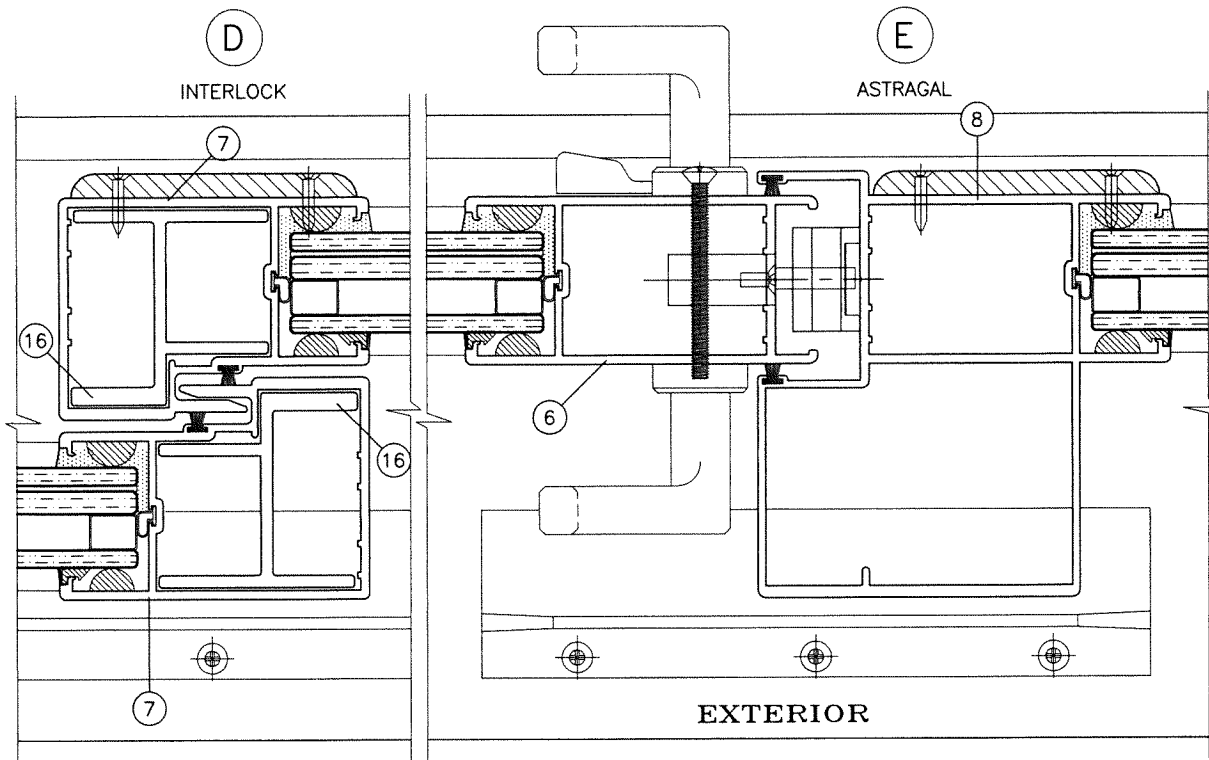
SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC
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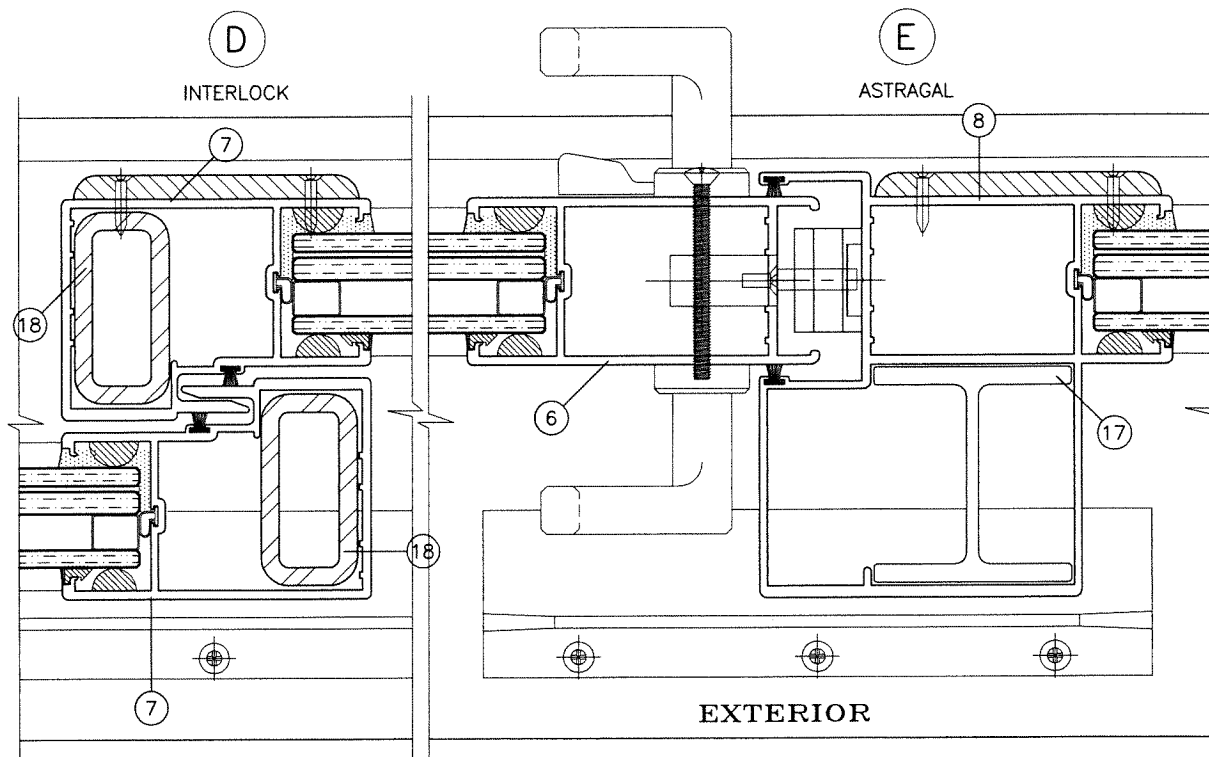
drawing no.
W07-26
sheet 2 of 12

revisions:		no	date	by	description
L	12.14.15				NO CHANGE THIS SHEET
M	01.15.18				3 TRACK OPTION ADDED
N	05.11.18				REV. PER RER COMMENTS
O	06.21.21				EDITORIAL CHANGES

date: 04-04-07	scale: -	dr. by: TARIQ	chk. by:	
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REINFORCING OPTION #3
ALUMINUM REINFORCING AT INTERLOCK



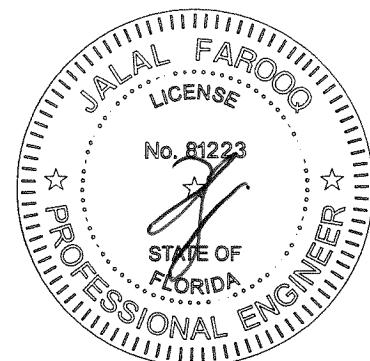
REINFORCING OPTION #4
STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.17
Expiration Date 06/14/2023
By Ishaq I. Chande
Miami-Dade Product Control

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

DESIGN LOAD CAPACITY - PSF INSULATED LAMINATED GLASS TYPES 'B' & 'B1'					
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	REINF. OPTION #3		REINF. OPTION #4	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	85.0	145.0	85.0	145.0
36		85.0	145.0	85.0	145.0
42		85.0	145.0	85.0	145.0
44		85.0	145.0	85.0	145.0
48		85.0	140.0	85.0	145.0
54		-	-	85.0	111.0
60		-	-	85.0	100.0
30	96	85.0	145.0	85.0	145.0
36		85.0	145.0	85.0	145.0
42		-	-	85.0	125.0
44		-	-	85.0	125.0
48		-	-	85.0	125.0
54		-	-	85.0	111.0
60		-	-	85.0	100.0
30	102	85.0	145.0	85.0	125.0
36		85.0	145.0	85.0	125.0
42		-	-	85.0	125.0
44		-	-	85.0	125.0
48		-	-	85.0	125.0
54		-	-	85.0	111.0
30	108	85.0	145.0	85.0	145.0
36		85.0	145.0	85.0	145.0
42		-	-	85.0	125.0
44		-	-	85.0	125.0
48	114	-	-	85.0	125.0
30		-	-	85.0	110.0
36		-	-	85.0	110.0
42		-	-	85.0	110.0
44	120	-	-	85.0	110.0
48		-	-	85.0	110.0
30		-	-	85.0	110.0
36		-	-	85.0	110.0

SEE SHEET 4 FOR GLASS TYPES 'B' & 'B1'



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ENGINEERS & PRODUCT DEVELOPMENT
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SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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no.	date	by	description
L	12.14.15		NO CHANGE THIS SHEET
M	01.15.18		3 TRACK OPTION ADDED
N	05.11.18		REV. PER PER COMMENTS
O	06.21.21		EDITORIAL CHANGES

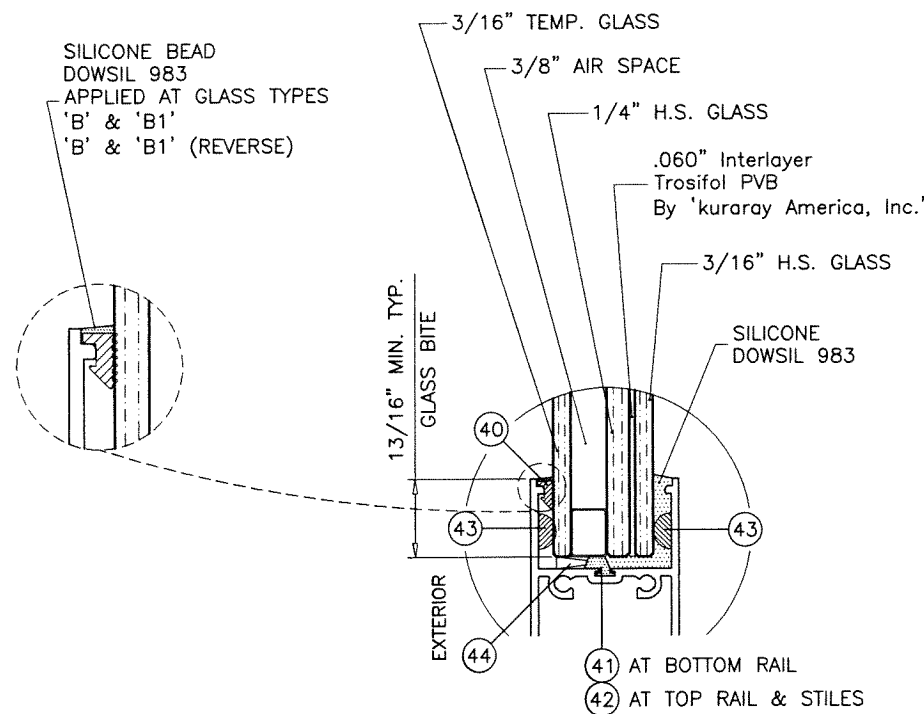
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W07-26

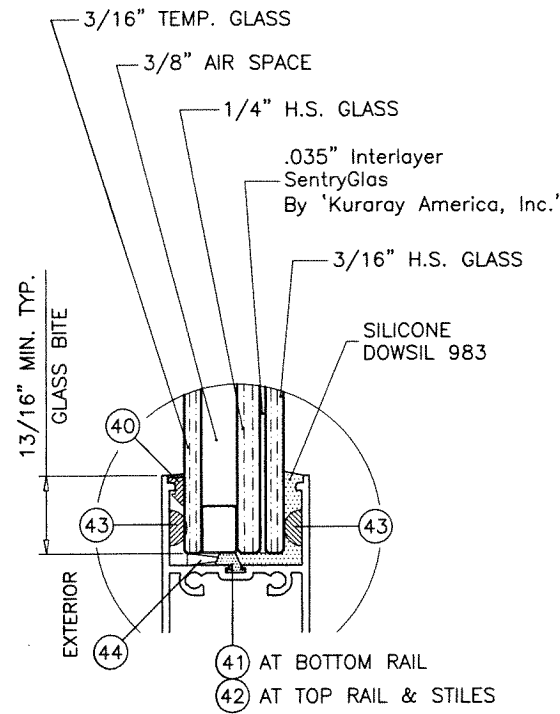
sheet 3 of 12

COMP-ANL\W07-26ES

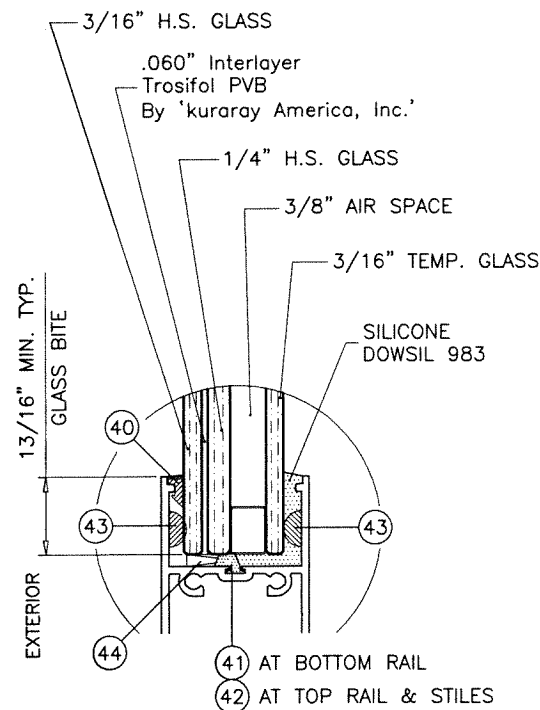
JUN 23 2021



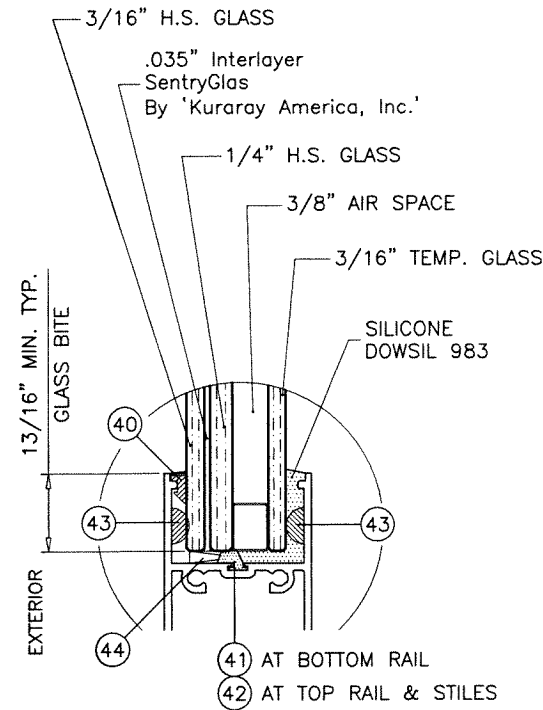
GLASS TYPE 'B'



GLASS TYPE 'B1'



GLASS TYPE 'B' (REVERSE)



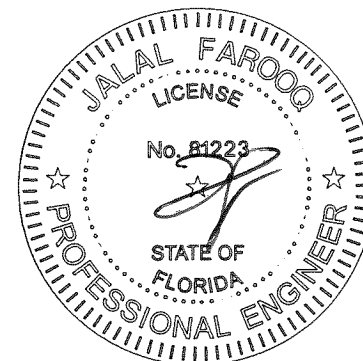
GLASS TYPE 'B1' (REVERSE)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.17

Expiration Date 06/14/2023

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

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



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W07-26ES

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

revisions:	no.	date	by	description
	L	12.14.15		NO CHANGE THIS SHEET
	M	01.15.18		3 TRACK OPTION ADDED
	N	05.11.18		REV. PER RER COMMENTS
	O	06.21.21		EDITORIAL CHANGES

date: 04-04-07
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W07-26
sheet 4 of 12

JUN 23 2021

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

— AT HEAD —

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

TYPE 'C'— #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

— AT SILL —

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

— AT JAMBS —

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS

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

TYPE 'C'— #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

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

WOOD AT HEAD, SILL 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.

HEAD ANCHOR LOAD CAPACITY - PSF									
ANCHOR TYPE		ANCHOR TYPE 'A'				ANCHOR 'B'		ANCHOR 'C'	
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS		7 ANCHORS AT MTG. STILE ENDS		6 ANCHORS AT MTG. STILE ENDS		6 ANCHORS AT MTG. STILE ENDS	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30	82	85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
36		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
42		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
44		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
48		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
54		85.0	111.0	85.0	111.0	85.0	111.0	85.0	111.0
60		85.0	100.0	85.0	100.0	85.0	100.0	85.0	100.0
30	96	85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
36		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
42		85.0	125.0	85.0	125.0	85.0	125.0	85.0	125.0
44		85.0	125.0	85.0	125.0	85.0	125.0	85.0	125.0
48		85.0	118.0	85.0	125.0	85.0	125.0	85.0	125.0
54		85.0	109.4	85.0	111.0	85.0	111.0	85.0	111.0
60		85.0	100.0	85.0	100.0	85.0	100.0	85.0	100.0
30	102	85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
36		85.0	134.9	85.0	145.0	85.0	145.0	85.0	145.0
42		85.0	119.9	85.0	125.0	85.0	125.0	85.0	125.0
44		85.0	115.9	85.0	125.0	85.0	125.0	85.0	125.0
48		85.0	108.9	85.0	125.0	85.0	125.0	85.0	125.0
54		85.0	100.7	85.0	111.0	85.0	111.0	85.0	111.0
30	108	85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
36		85.0	125.9	85.0	145.0	85.0	145.0	85.0	145.0
42		85.0	111.6	85.0	125.0	85.0	125.0	85.0	125.0
44		85.0	107.8	85.0	125.0	85.0	125.0	85.0	125.0
48		85.0	101.1	85.0	118.0	85.0	125.0	85.0	125.0
30	114	85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
42		85.0	104.4	85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	100.7	85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	94.4	85.0	110.0	85.0	110.0	85.0	110.0
30	120	85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
42		85.0	98.1	85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	94.6	85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	88.5	85.0	103.3	85.0	110.0	85.0	110.0

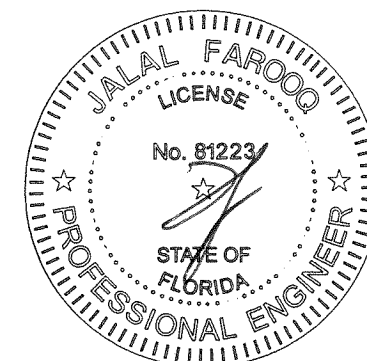
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.17

Expiration Date 06/14/2023

By Ishag I. Chande
Miami-Dade Product Control

NOTE:
SEE SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING
MORE THAN DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM GLASS OR HEAD OR SILL ANCHOR CHARTS
WILL APPLY TO ENTIRE SYSTEM.

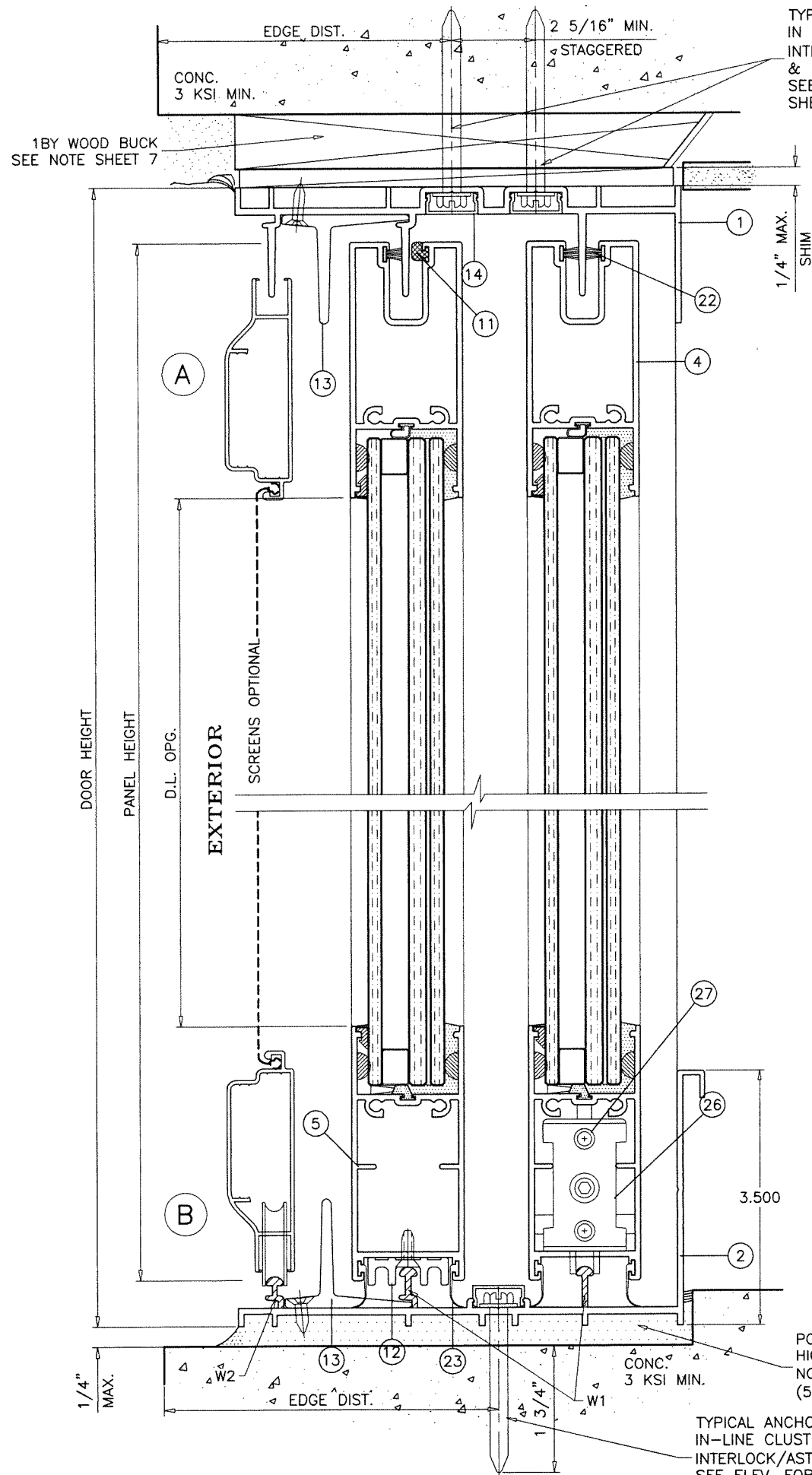
SILL ANCHOR LOAD CAPACITY - PSF									
ANCHOR TYPE		ANCHOR TYPE 'B'				ANCHOR TYPE 'B'		ANCHOR TYPE 'B'	
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	4 ANCHORS AT MTG. STILE ENDS		5 ANCHORS AT MTG. STILE ENDS		4 ANCHORS AT MTG. STILE ENDS		5 ANCHORS AT MTG. STILE ENDS	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30	82	85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
36		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
42		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
44		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
48		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
54		85.0	111.0	85.0	111.0	85.0	111.0	85.0	111.0
60		85.0	100.0	85.0	100.0	85.0	100.0	85.0	100.0
30	96	85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
36		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
42		85.0	125.0	85.0	125.0	85.0	125.0	85.0	125.0
44		85.0	125.0	85.0	125.0	85.0	125.0	85.0	125.0
48		85.0	125.0	85.0	125.0	85.0	125.0	85.0	125.0
54		85.0	111.0	85.0	111.0	85.0	111.0	85.0	111.0
60		85.0	100.0	85.0	100.0	85.0	100.0	85.0	100.0
30	102	85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
36		85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
42		85.0	125.0	85.0	125.0	85.0	125.0	85.0	125.0
44		85.0	125.0	85.0	125.0	85.0	125.0	85.0	125.0
48		85.0	120.0	85.0	125.0	85.0	125.0	85.0	125.0
54		85.0	110.9	85.0	111.0	85.0	111.0	85.0	111.0
30	108	85.0	145.0	85.0	145.0	85.0	145.0	85.0	145.0
36		85.0	138.7	85.0	145.0	85.0	145.0	85.0	145.0
42		85.0	123.0	85.0	125.0	85.0	125.0	85.0	125.0
44		85.0	118.7	85.0	125.0	85.0	125.0	85.0	125.0
48		85.0	111.4	85.0	125.0	85.0	125.0	85.0	125.0
30	114	85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
42		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	104.0	85.0	110.0	85.0	110.0	85.0	110.0
30	120	85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
42		85.0	108.1	85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	104.2	85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	97.5	85.0	110.0	85.0	110.0	85.0	110.0



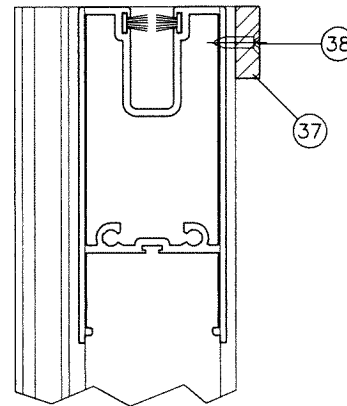
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)	
SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)	
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
revisions:	by description
no date	no change this sheet
L 12.14.15	3 TRACK OPTION ADDED
M 01.15.18	REV. PER RER COMMENTS
N 05.11.18	EDITORIAL CHANGES
O 06.21.21	
date: 04-04-07	scale: 1/2" = 1"
dr. by: TARIQ	chk. by:
drawing no. W07-26	
sheet 5 of 12	

COMP-ANL W07-26ES

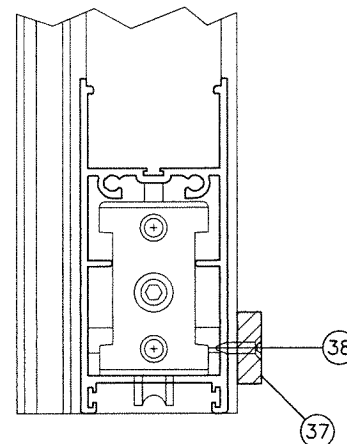
JUN 23 2021



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



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Expiration Date 06/14/2023
By Ishaq I. Chandra
Miami-Dade Product Control



POURED & HARDENED
HIGH STRENGTH GROUT
NOT BY 'E.S. WINDOWS'
(5 KSI MIN.)

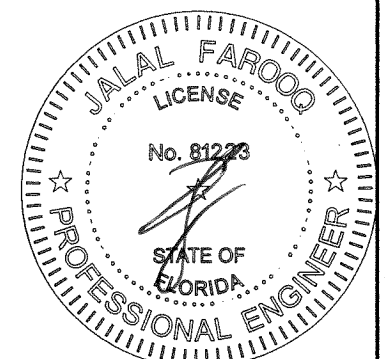
TYPICAL ANCHORS
IN-LINE CLUSTERS AT
INTERLOCK/ASTRAGAL ENDS
SEE ELEV. FOR SPACING AND
SHEET 5 FOR CAPACITY

SEALANT:

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

WEEPHOLES:

W1 = 2-5/8" LONG WEEP NOTCH AT EACH END
W2 = 1" LONG WEEP NOTCH AT EACH END



JUN 23 2021

AL-FAROOQ CORPORATION
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C.A.N. 3538

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

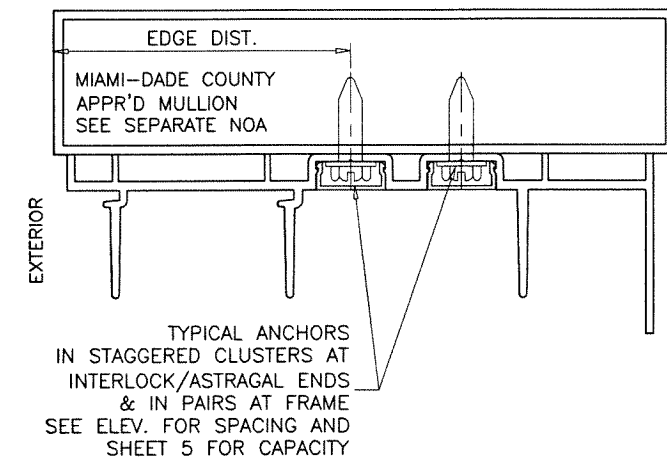
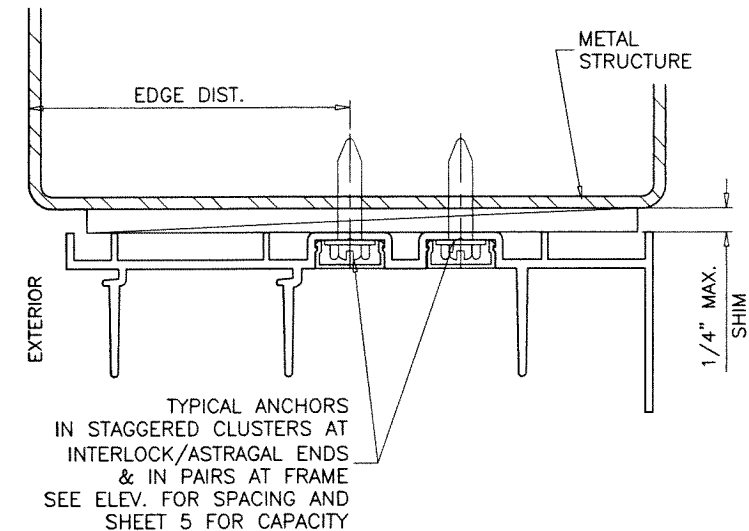
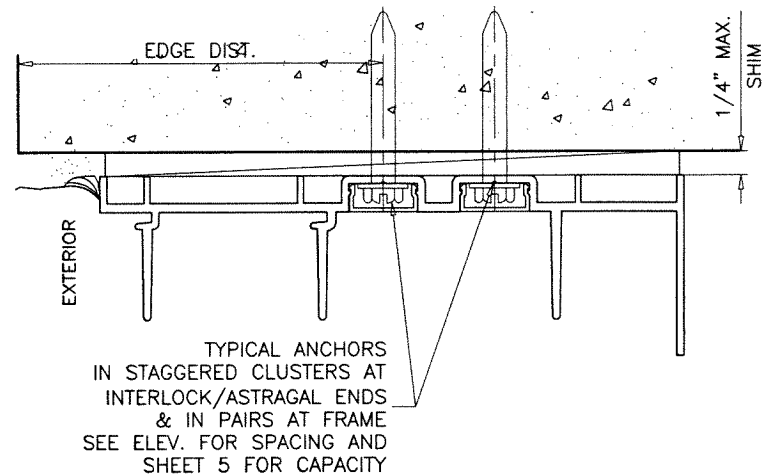
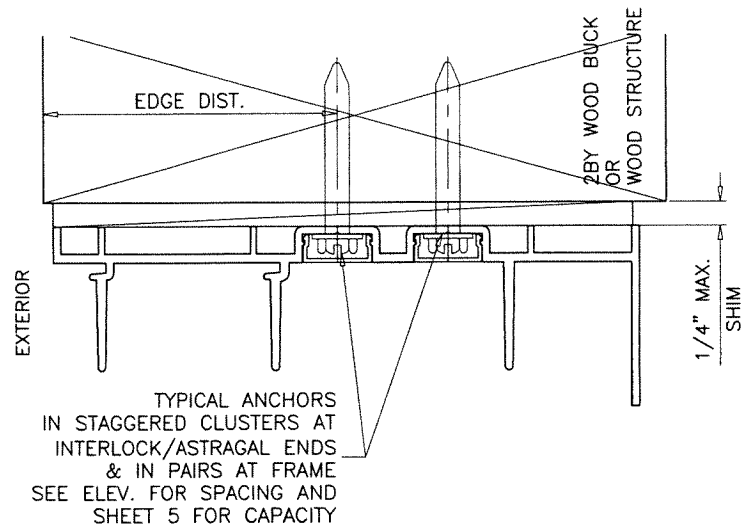
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MIAMI, FL. 33142
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chk. by:

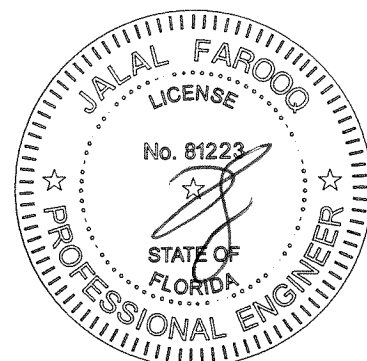
drawing no.
W07-26
sheet 6 of 12

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Expiration Date 06/14/2023
By Ishaq I. Chaudhry
Miami-Dade Product Control

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



JUN 23 2021

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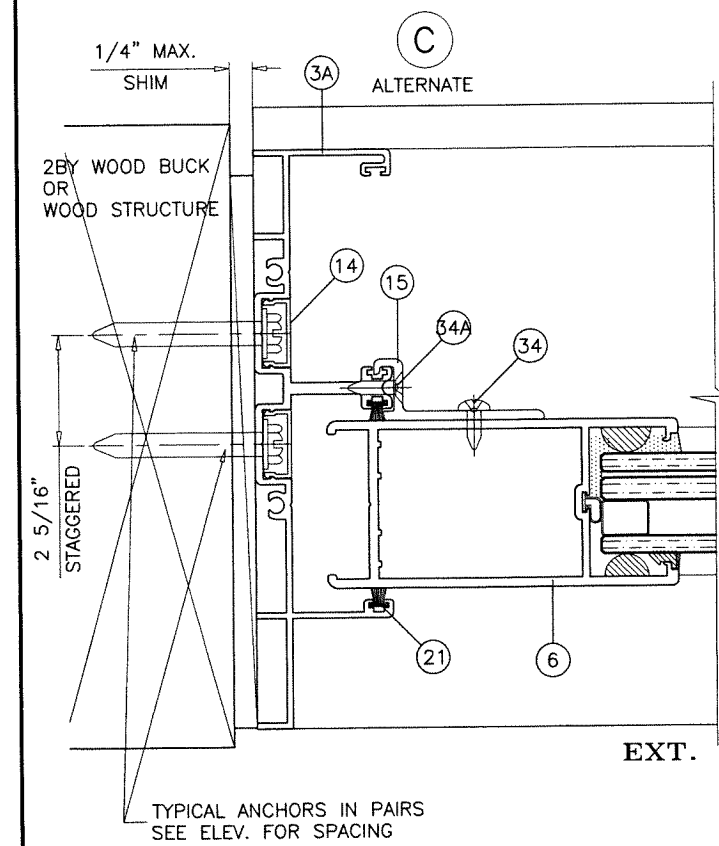
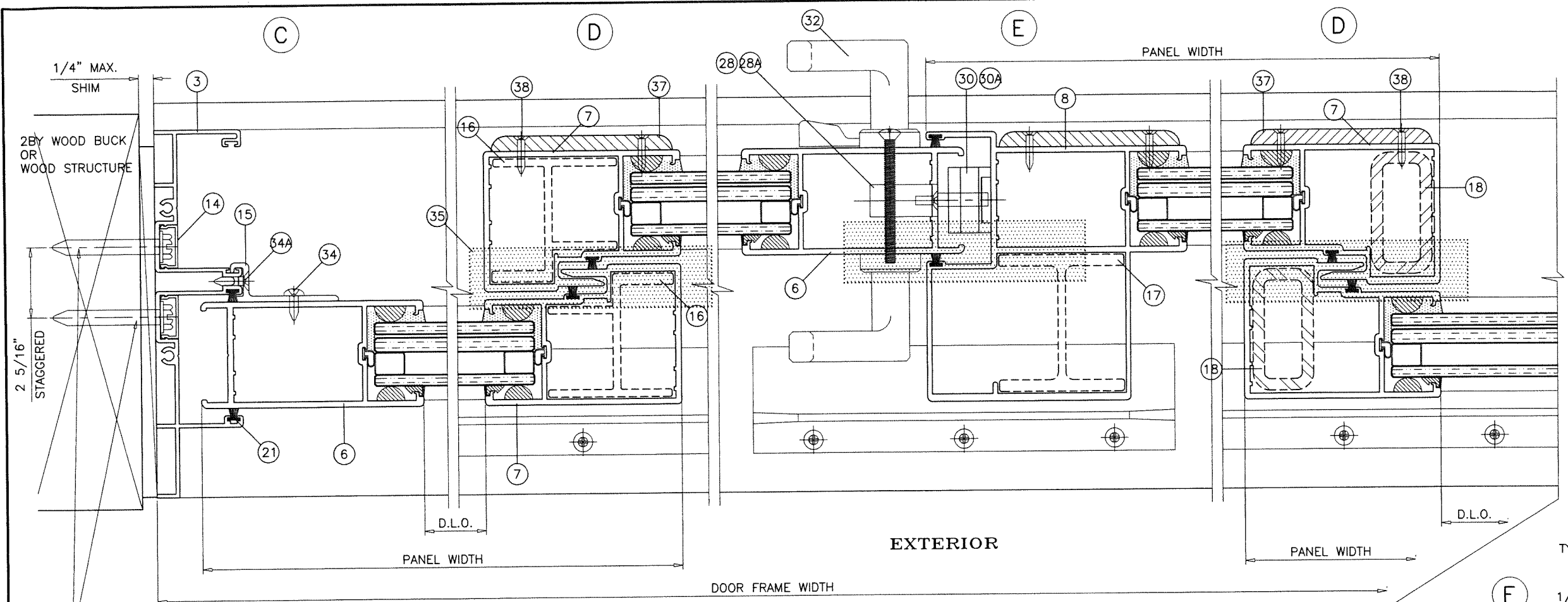
SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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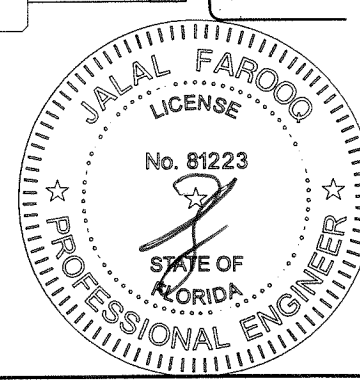
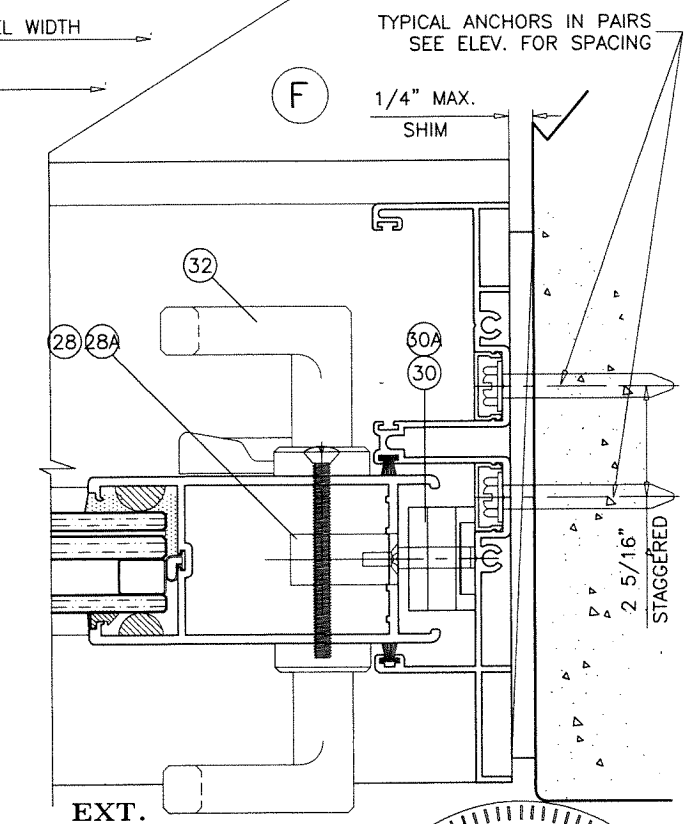
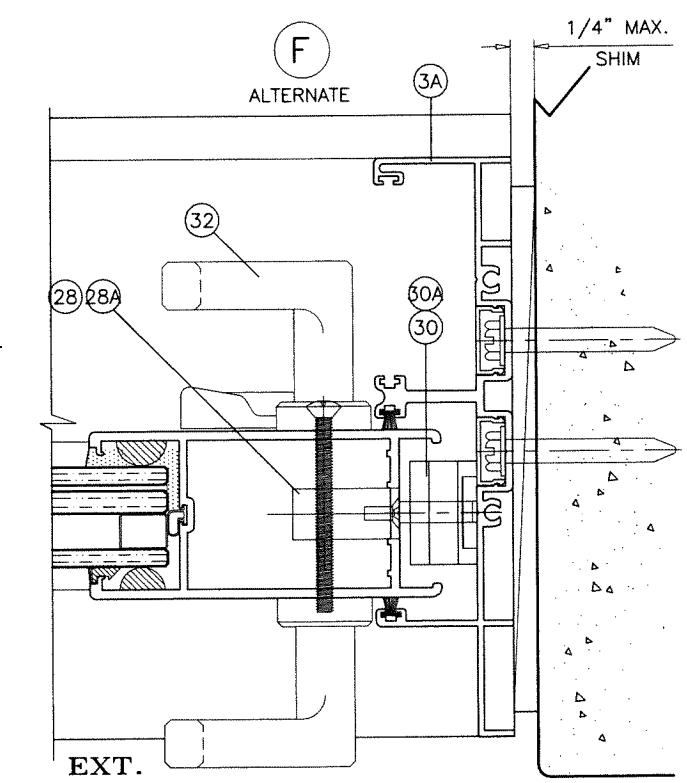
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W07-26
sheet 7 of 12



ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL STILES
 SHOWN FOR ILLUSTRATION ONLY.
 USE AS SHOWN ON SHEET 3.
 SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
 SEE ELEVATION FOR ANCHOR SPACING AND SHEET 5 FOR ANCHOR CAPACITY.

PRODUCT REVISED
 as complying with the Florida
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 NOA-No. 21-0628.17
 Expiration Date 06/14/2023
 By Ishag I. Chank
 Miami-Dade Product Control



AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
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 COMP-ANL\W07-26ES

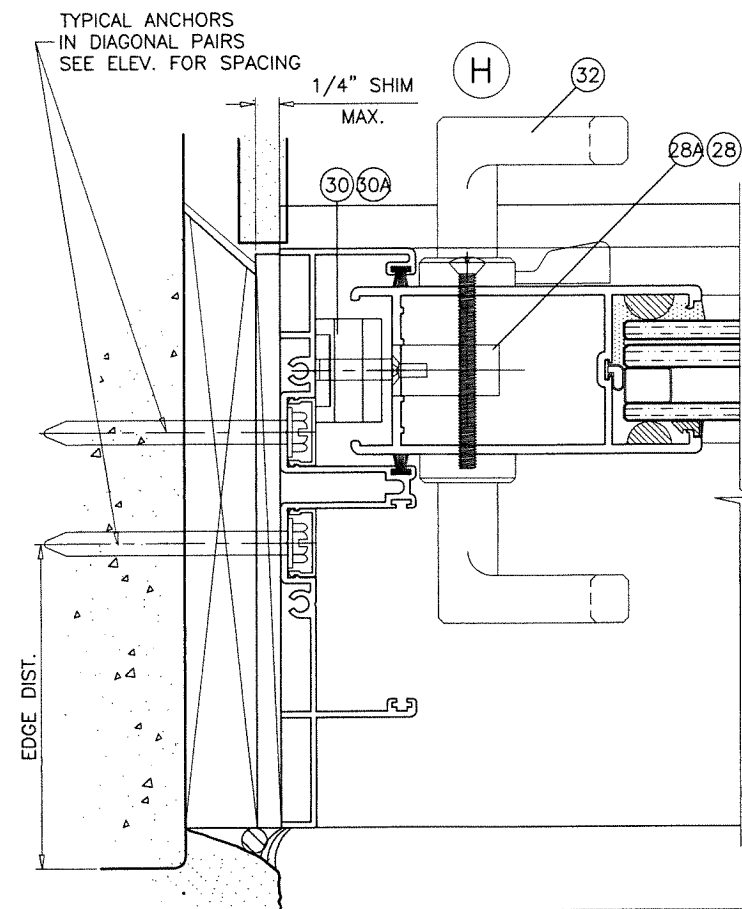
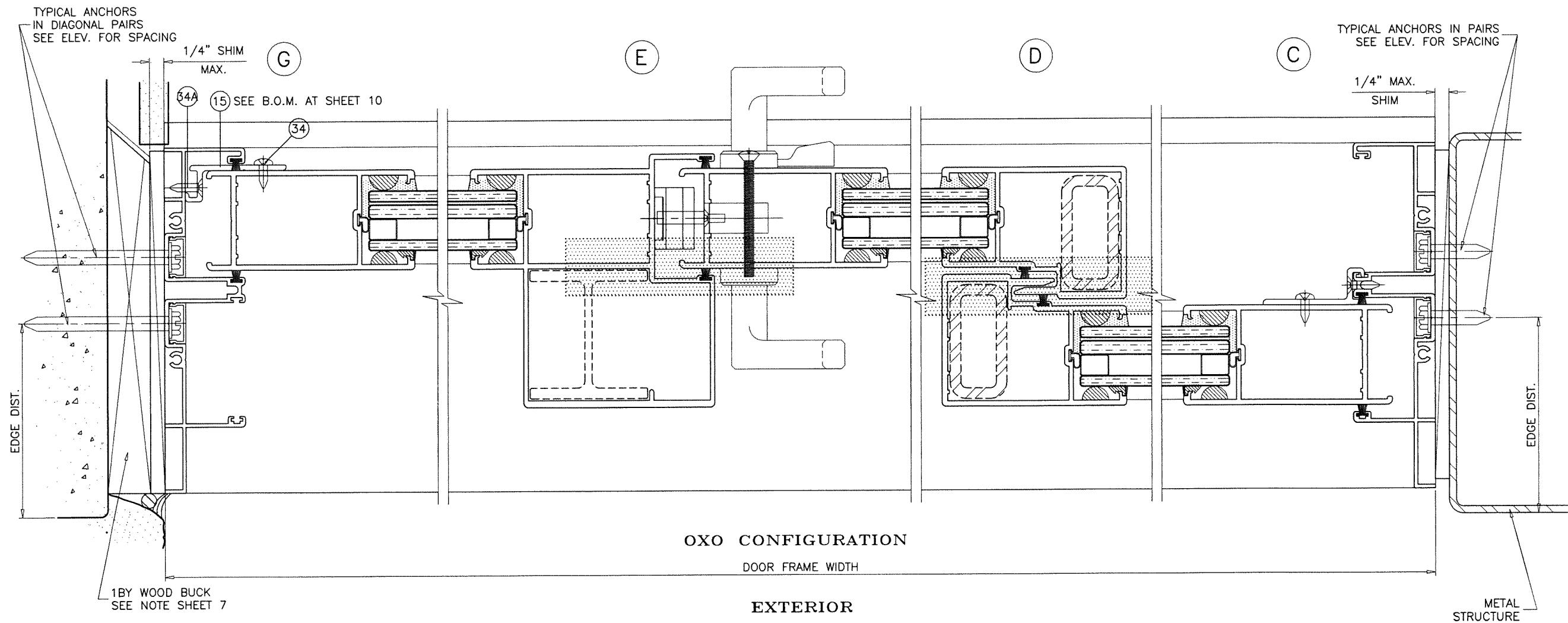
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drawing no.
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 sheet 8 of 12



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 USE AS SHOWN ON SHEET 3.
 SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
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 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
L	12.14.15		NO CHANGE THIS SHEET
M	01.15.18		3 TRACK OPTION ADDED
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O	06.21.21		EDITORIAL CHANGES

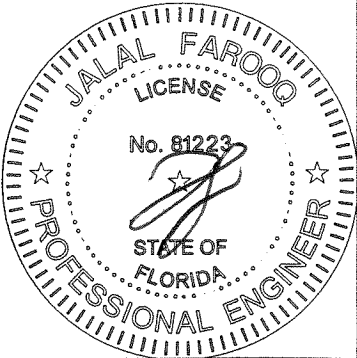
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 dr. by: TARIQ
 chk. by:

drawing no.
W07-26
 sheet 9 of 12

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES6001	1	FRAME HEAD	6005-T5	-
2	ES6023	1	FRAME SILL - 3-1/2" HIGH	6005-T5	-
3	ES6003	2	FRAME JAMB	6063-T6	-
3A	ES6030	2	ALTERNATE FRAME JAMB	6063-T6	-
4	ES6004	2/ PANEL	TOP RAIL	6063-T6	-
5	ES6005	2/ PANEL	BOTTOM RAIL	6063-T6	-
6	ES6006	AS REQD.	LOCK STILE	6063-T6	-
7	ES6007	AS REQD.	INTERLOCK	6063-T6	-
8	ES6008	AS REQD.	FEMALE ASTRAGAL	6063-T6	-
11	ES6016	4/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	-
12	ES6015	2/ PANEL	FIXED PANEL BOTTOM GUIDE	6063-T6	SECURE W/ (2) #8 X 3/4" FH SMS
13	ES6010	2/ PANEL	RETAINER CLIP, 6" LONG	6005-T5	AT MTG. RAIL HEAD & SILL ENDS
14	ES6011	2/ JAMB	JAMB SCREW COVER	6063-T5	OPTIONAL
15	ES6014	3/ FIX. PANEL	FIXED PANEL CLIP, 4" LONG, AT 53" O.C.	6063-T6	AT 7" FROM EACH END AND AT MIDSPAN
16	ES6012	AS REQD.	INTERLOCK STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
17	ES6013	AS REQD.	ASTRAGAL STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
18	1" X 2" X 3/16"	AS REQD.	STEEL TUBE REINFORCING (LENGTH = PANEL HT. - 2-3/8")	A36 STEEL	TO BE PAINTED
21	W222521K	AS REQD.	STILE & JAMB W'STRIPPING	-	ULTRAFAB
22	W223221K	AS REQD.	TOP RAIL W'STRIPPING	-	ULTRAFAB
23	ES6027	AS REQD.	BOTTOM RAIL W'STRIPPING	EPDM	DUROMETER 75±4 SHORE A
24	#10 X 1-1/2" PH SMS	8/ PANEL	PANEL ASSY SCREWS	-	-
25	#10 X 1" PH SMS	2/ CORNER	FRAME ASSY SCREWS	-	-
26	-	2/ MOV. PANEL	TANDEM ACETAL WHEELS IN METALLIC HOUSING	-	DUAL ROLLERS
27	1/4-20 X 1-3/4" PH MS	1/ ROLLER	ROLLER INST. SCREWS	-	-
28	2300-10SS	1/ MOV. PANEL	STD. MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	-
28A	2468T-00	1/ MOV. PANEL	MULTI POINT MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	WITH 2448 TRIM PLATE
29	#10-24 X 3/8" PH MS	2/ LOCK	LOCK INSTALLATION SCREW	ST. STEEL	-
30	ES6017-1	1/ LOCK	LOCK KEEPER (STD. LOCK)	PLATED STEEL	AT 48-1/2" FROM BOTTOM
30A	2447-00	1/ LOCK	LOCK KEEPER (MULTI POINT LOCK)	ST. STEEL	AT 48-1/2" FROM BOTTOM
31	#10 X 5/8" PH SMS B	2/ LOCK	LOCK KEEPER MOUNT. SCREW (STD. LOCK)	ST. STEEL	-
31A	#8 X 3/4" FH SMS	4/ LOCK	LOCK KEEPER MOUNT. SCREW (MULTI POINT LOCK)	ST. STEEL	-
32	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	-	(3) #6-32 X 1/2" FH MS, ST. STEEL
34	#10 X 3/4" PH SDS	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	-
34A	#10 X 3/4" PH SDS	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	-
35	-	AS REQD.	1"X4" LONG SELF ADHESIVE PILE PAD	WOOLPILE	AT HEAD AND SILL
37	ES6019	AS REQD.	RESTRAINING PLATE	NYLON	AT TOP & BOTT. INTERLOCKS & ASTRAGAL
38	#8 X 3/4" FH SMS	2/ PLATE	RESTRAINING PLATE FASTENER	-	-
40	27-445	AS REQD.	GLAZING WEDGE GASKET	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONESENCAUCHO
41	ES4014	AS REQD.	BOTTOM RAIL GLASS STOP	EPDM	DUROMETER 68±4 SHORE A
42	ES4018	AS REQD.	TOP RAIL & STILES GLASS STOP	EPDM	DUROMETER 75±4 SHORE A
43	-	AS REQD.	BUMPER	SILICONE	-
44	-	2/ LITE	SETTING BLOCK, 1" X 1/8" X 2-1/2" LONG	EPDM	DUROMETER 75±4 SHORE A

LATCHES:
ITEMS 28A AND 30A USED FOR DOORS WITH STEEL REINFORCING ONLY
ITEMS 28 AND 30 USED FOR ALL OTHER DOORS.

PRODUCT REVISED
as complying with the Florida
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NOA-No. 21-0628.17
Expiration Date 06/14/2023
By Ismael I. Chanda
Miami-Dade Product Control



afC

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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

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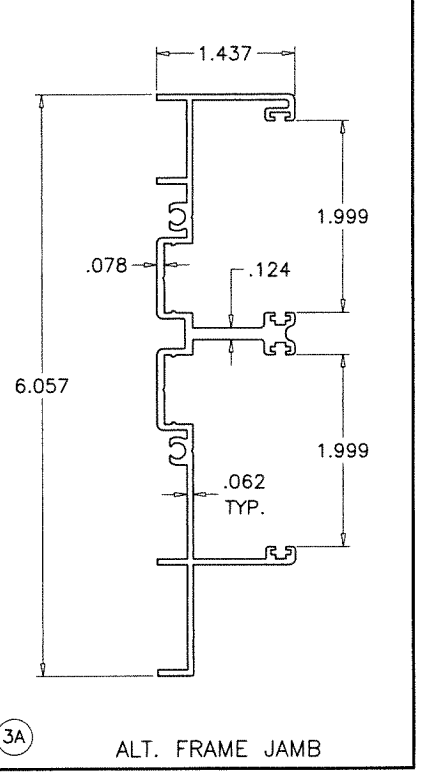
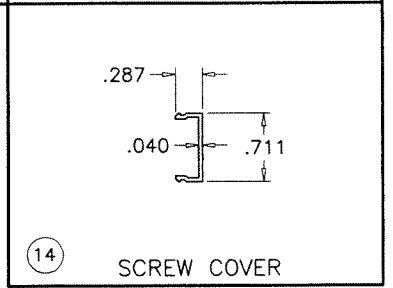
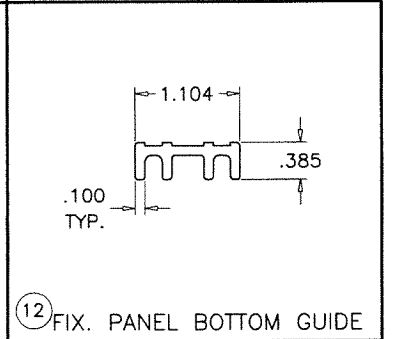
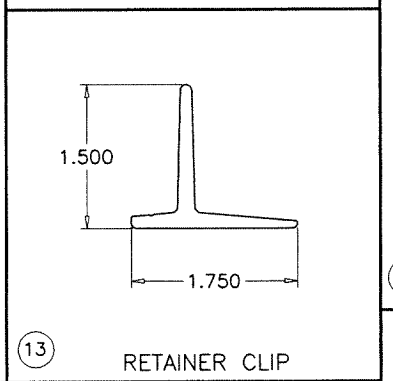
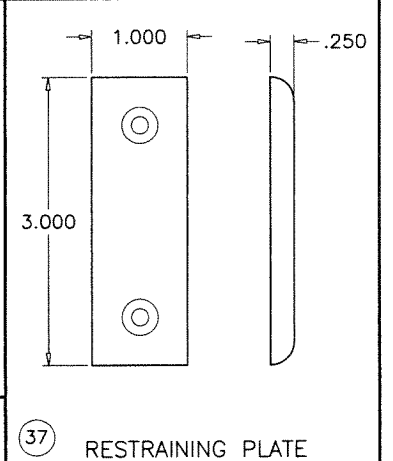
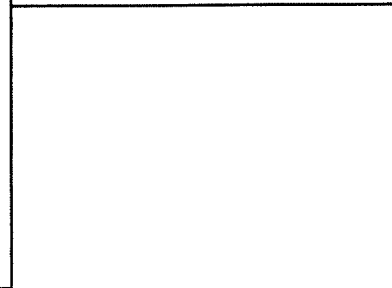
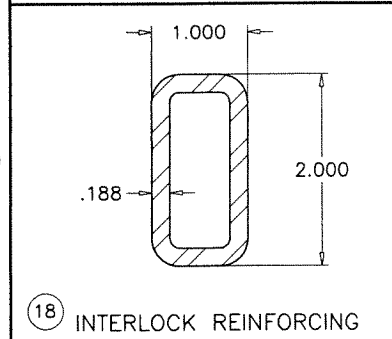
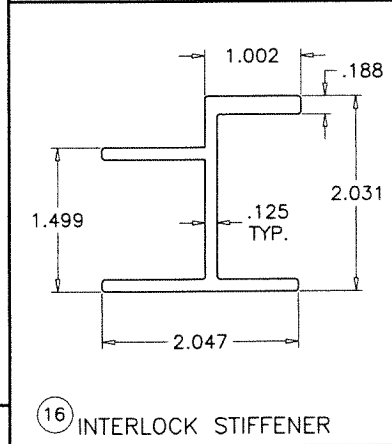
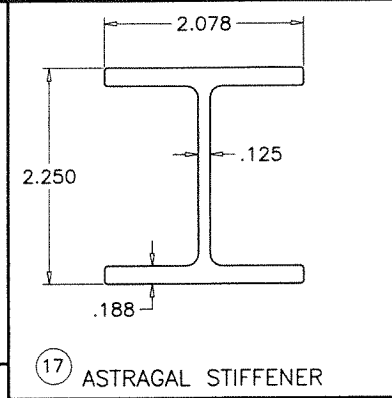
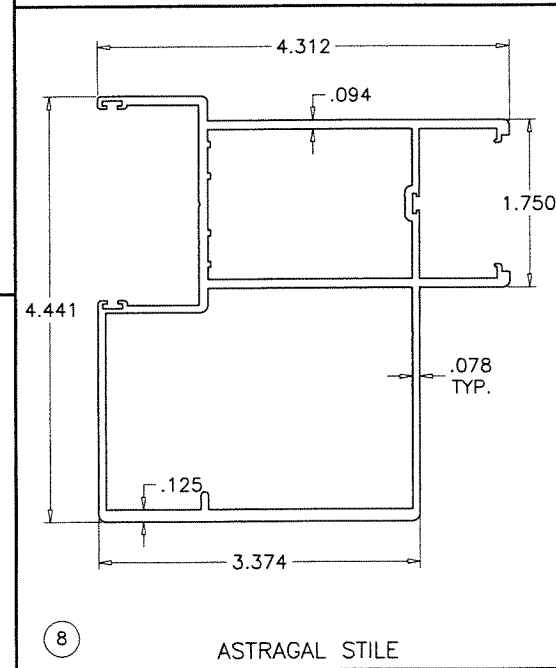
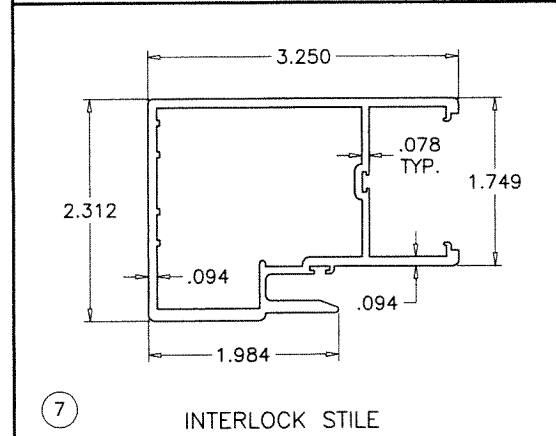
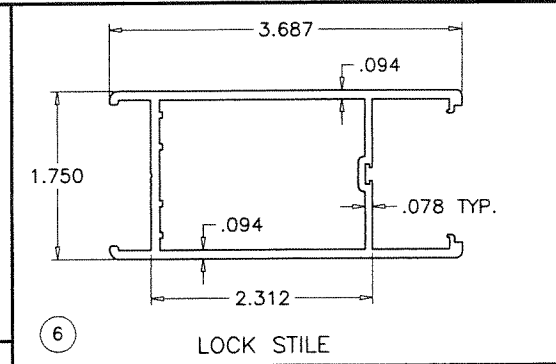
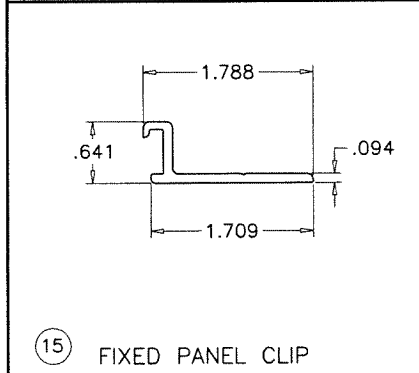
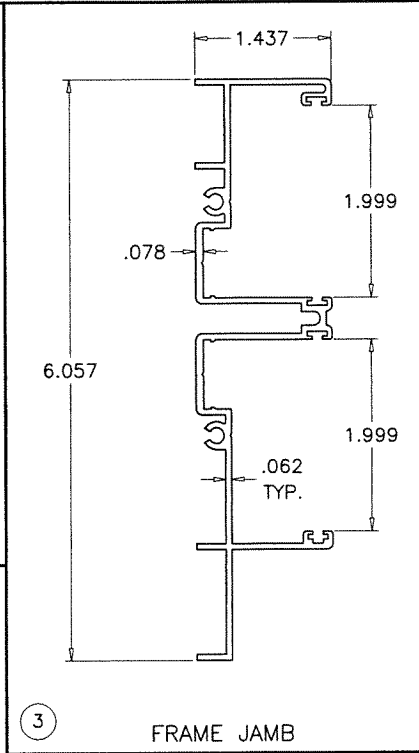
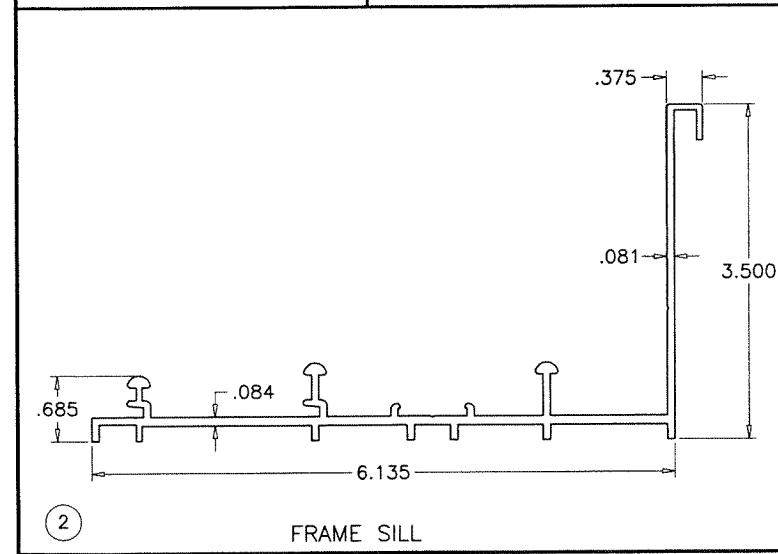
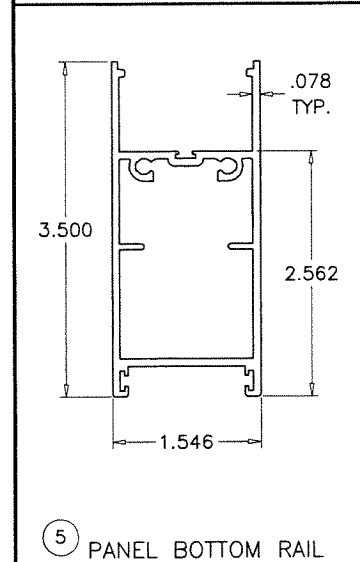
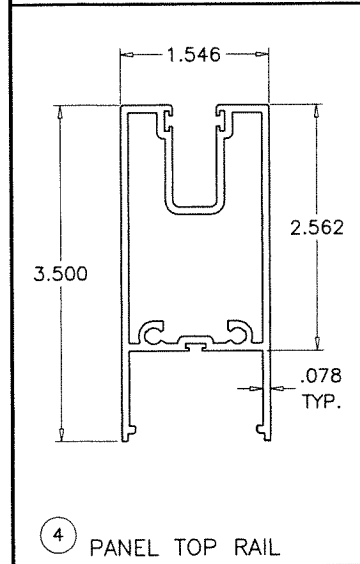
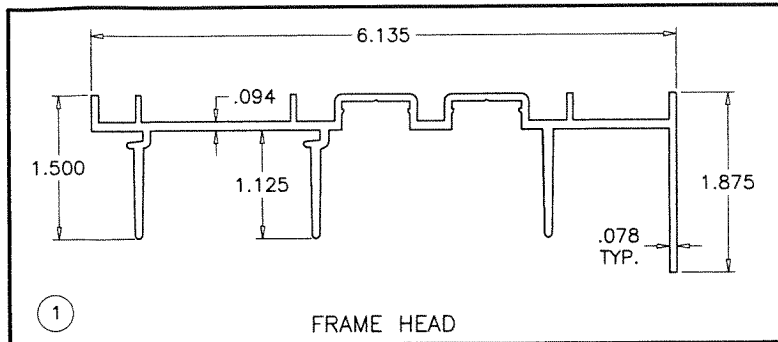
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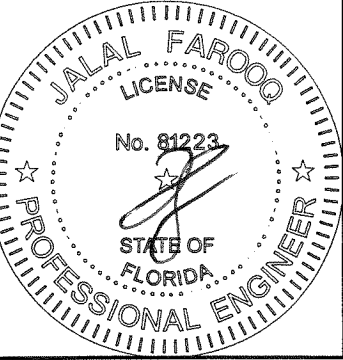
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JUN 23 2021



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 Miami-Dade Product Control



JUN 23 2021

AL-FAROOQ CORPORATION
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 COMP-ANL W07-26ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC
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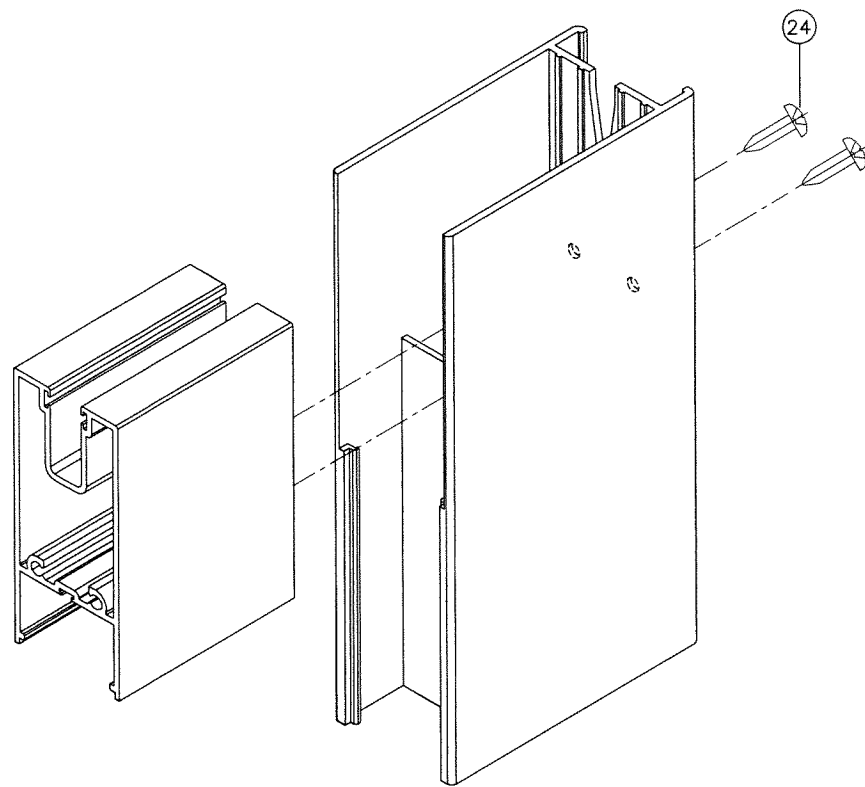
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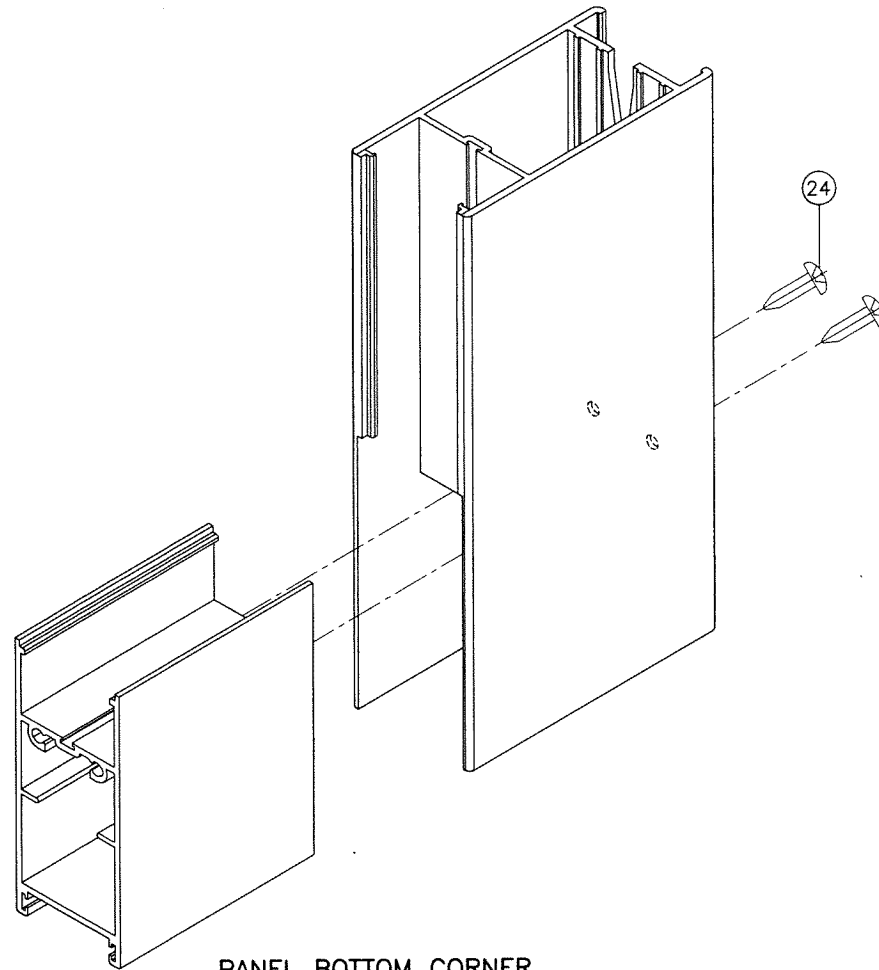
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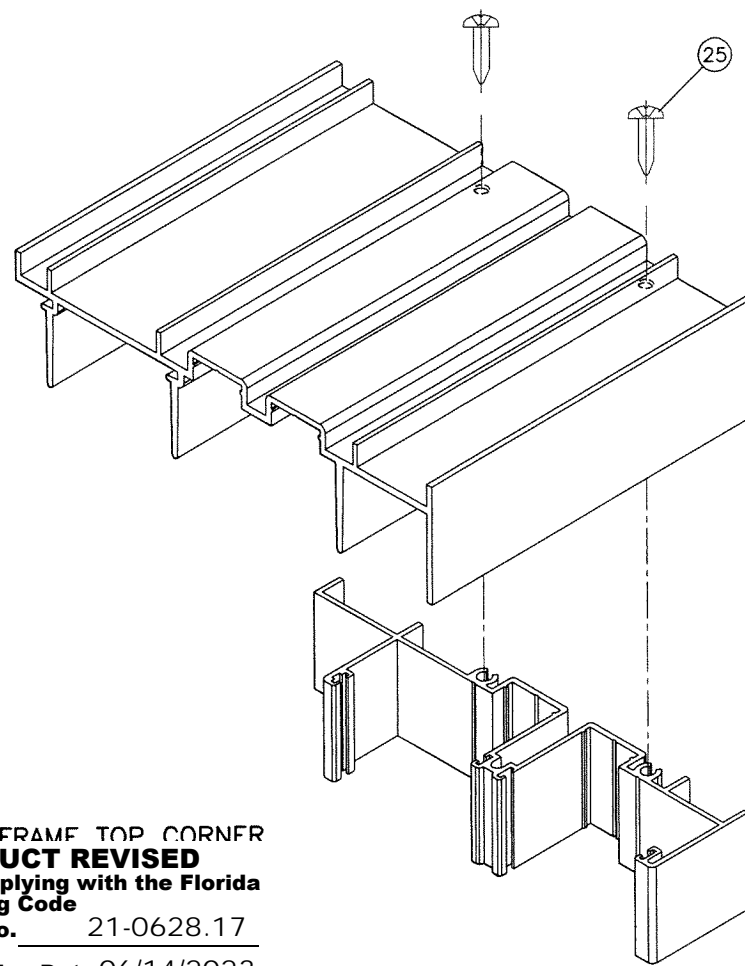
sheet 11 of 12



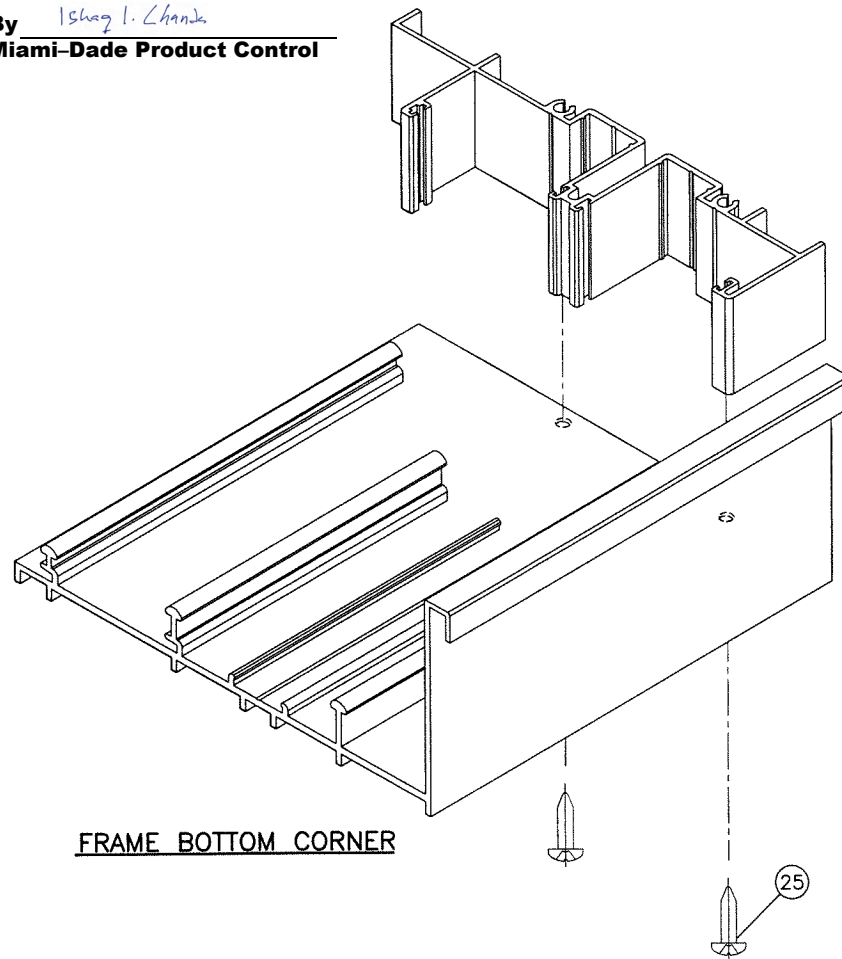
PANEL TOP CORNER



PANEL BOTTOM CORNER

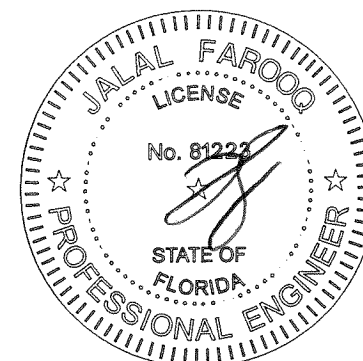


FRAME TOP CORNER
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 By Ishaq I. Chaudhry
 Miami-Dade Product Control



FRAME BOTTOM CORNER

1001 2 3 0321



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