



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

E.S. Windows, LLC
3550 N. W. 49 Street
Miami, FL 33142

SCOPE:

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

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

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

DESCRIPTION: Series 6000 Aluminum Sliding Glass Doors(2-tracks) w/wo Reinforcements-L.M.I.

APPROVAL DOCUMENT: Drawing No. **W11-41 Rev G** titled "Series- 6000 Alum Sliding. Glass Door (L.M.I.)", sheets 1 through 13 of 13, prepared by AL-Farooq Corporation, dated 07/22/11 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.

Limitations:

1. See Design Pressure (DP) tables in sheets **3, 4** and **5** with applicable reinforcing required at interlock & astragal. Also see approved configurations in sheet 2. Lower capacity of DP table or anchor capacity table sheet 6 shall control.
2. Applicable Egress requirement to be reviewed by building official.
3. Min (2) item #26 Pabose (GT345/460A) rollers per panel as specified per sheet **11** of Bill of material.

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".

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 #16-1130.03** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



Ishaq I. Chanda

NOA No. 21-0628.16
Expiration Date: September 05, 2024
Approval Date: August 19, 2021
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under file #14-0408.01).
2. Drawing No. **W11-41 Rev C**, titled "Series- 6000 Alum Sliding Glass Door (L.M.I.)", sheets 1 through 13 of 13, prepared by AL-Farooq Corporation, dated 07/22/11 and last revised on JUL 01, 2016, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under file #14-0408.01/#11-0825.07)

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 aluminum sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL-6292** (samples **A-1, B-1, C-1, D-1 & E-1**), dated 08/15/11, signed and sealed by Marlin D. Brinson, P. E.

(Note: This report has been revised for glazing types in sample A1 & E-1)

2. Additional roller assembly qualification test report #FTL-7651 per TAS 201, 202 & 203-94

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 2014 (5th Edition), prepared by Al Farooq Corporation, dated 12/23/2015, signed and sealed by Javad Ahmad, P.E.
2. Roller assembly dead load structural analysis prepared by Al-Farooq Corporation, dated 02/17/14 and last revised on 06/16/14, signed and sealed by Javad Ahmad, P.E. (Submitted under file #14-0408.01).
3. 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 "**SentryGlas® (Clear and White) Glass Interlayers**", expiring on 07/04/18.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (5th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 12/15/15, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance statements, part of the above referenced test reports.
3. Distribution agreement between ES Windows-Energia Solar, SA, Colombia and ES Windows, LLC, USA, dated 10/29/10, signed by MS Carla Torrente and Andres Chomaro, respectively.
4. Two panel test E.S. Windows commitment letter dated June 29, 2016 and single roller test proposal dated June 20, 2014, both signed by A. Chamorro, General Manager.
- 5.

Ishtaq I. Chanda
Ishtaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0628.16

Expiration Date: September 05, 2024

Approval Date: August 19, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. This NOA **revises & renews NOA#14-0408.01**, conditionally for one year, expiring 01/19/2018
2. Test proposals dated 06/30/16 & 04/15/14 approved by RER and Test proposal # **10-0506**, dated 09/23/10, approved by BCCO.

2. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No. **W11-41** titled "Series- 6000 Alum SLD. Glass Door (L.M.I.)", sheets 1 through 13 of 13, prepared by AL-Farooq Corporation, dated 07/22/11, with revision "F" dated 03/07/18, signed and sealed by Javad Ahmad, P.E.

B. TESTS

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

along with marked-up drawings and installation diagram of aluminum sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL-8721**, dated 03/08/17, signed and sealed by Idalmis Ortega, P. E.

C. CALCULATIONS

1. Anchor verification calculations complying with FBC2017 (6th Edition), prepared by Al Farooq Corporation, dated 01/19/2018, 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 DeNemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance to **FBC 6th Edition (2017)** and of no financial interest, prepared by Al-Farooq Corporation, dated 01/19/2018, signed and sealed by Javad Ahmad, P.E.

G. OTHER

1. This NOA **revises & renews NOA # 15-0430.04**, expiring 01/19/2018.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0628.16

Expiration Date: September 05, 2024
Approval Date: August 19, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **W11-41 Rev G** titled “Series- 6000 Alum SLD. Glass Door (L.M.I.)”, sheets 1 through 13 of 13, prepared by AL-Farooq Corporation, dated 07/22/11 and last revised on Jun 23, 2021, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations complying with FBC 2020 (7th Edition), 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 DeNemours & Co., Inc.) for the “**Sentry Glass ® Interlayer**”, expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance to **FBC 7th Edition (2020)** and of no financial interest, prepared by Al-Farooq Corporation, dated May 17, 2021, 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 # 16-1130.03**, expiring 09/05/2024.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0628.16
Expiration Date: September 05, 2024
Approval Date: August 19, 2021

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.16
Expiration Date 09/05/2024
By Ishag I. Chank
Miami-Dade Product Control

DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
D.L.O. WIDTH = PANEL WIDTH - 6.937"
PANEL HEIGHT = FRAME HEIGHT - 1.375"

SERIES-6000 ALUMINUM SLIDING GLASS DOOR

SEE SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE AND REQUIRED REINFORCING.

USING CHART ON SHEET 6 SELECT ANCHOR OPTION WITH
DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR
CHARTS WILL APPLY TO ENTIRE SYSTEM.

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

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

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

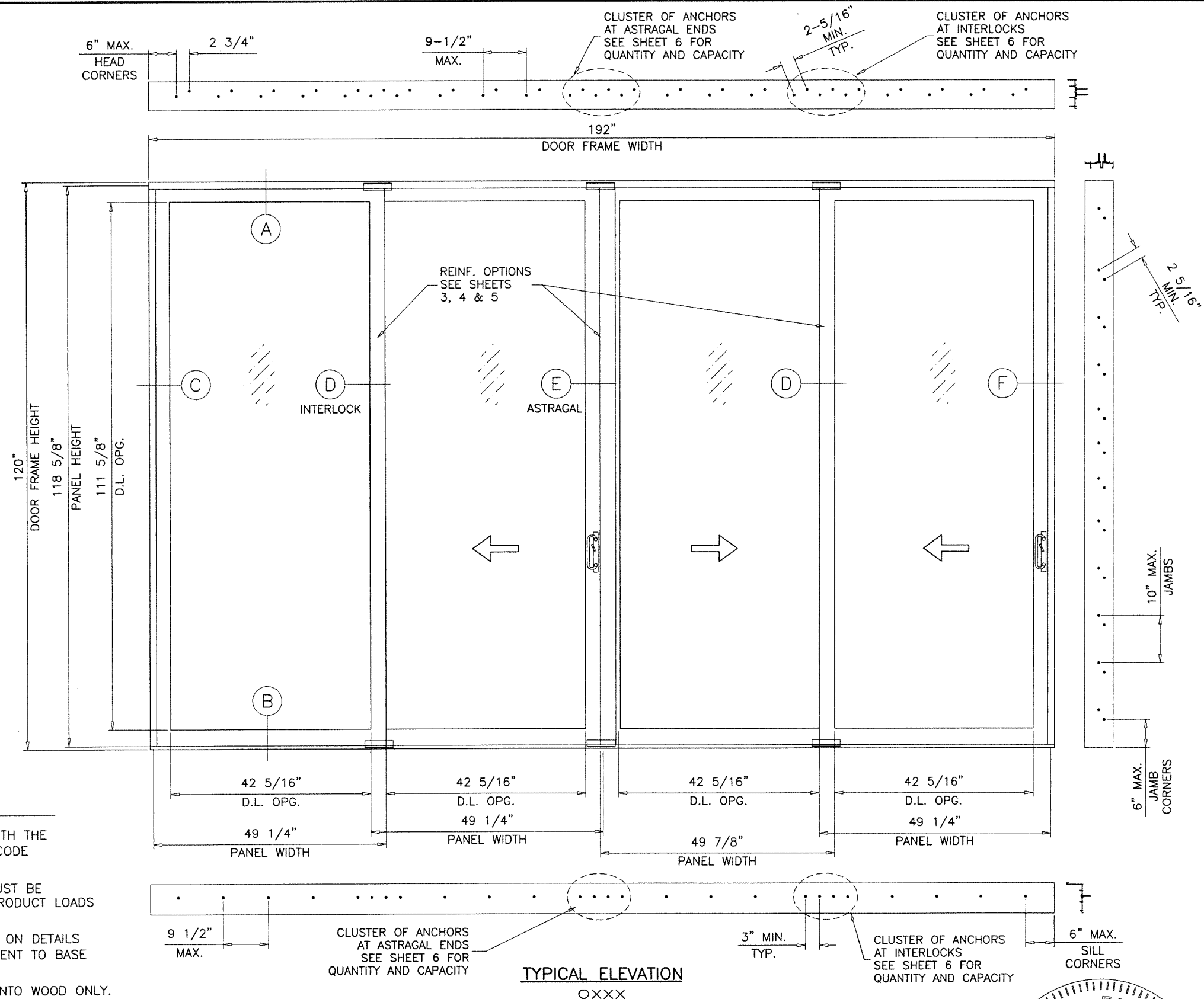
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

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

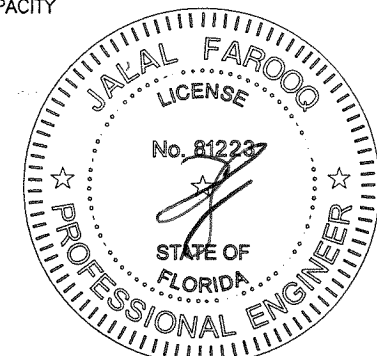
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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



THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

JUN 23 2021



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W11-41ES

SERIES-6000 ALUM SLIDING GLASS 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 |
|----|----------|----|-----------------------|
| C | 12.16.15 | | GENERAL REVISION |
| D | 06.09.16 | | REV. PER RER COMMENTS |
| E | 01.15.18 | | 3 TRACK OPTION ADDED |
| F | 03.07.18 | | REV. PER RER COMMENTS |
| G | 06.21.21 | | UPDATED TO 2020 FBC |

date: 07-22-11

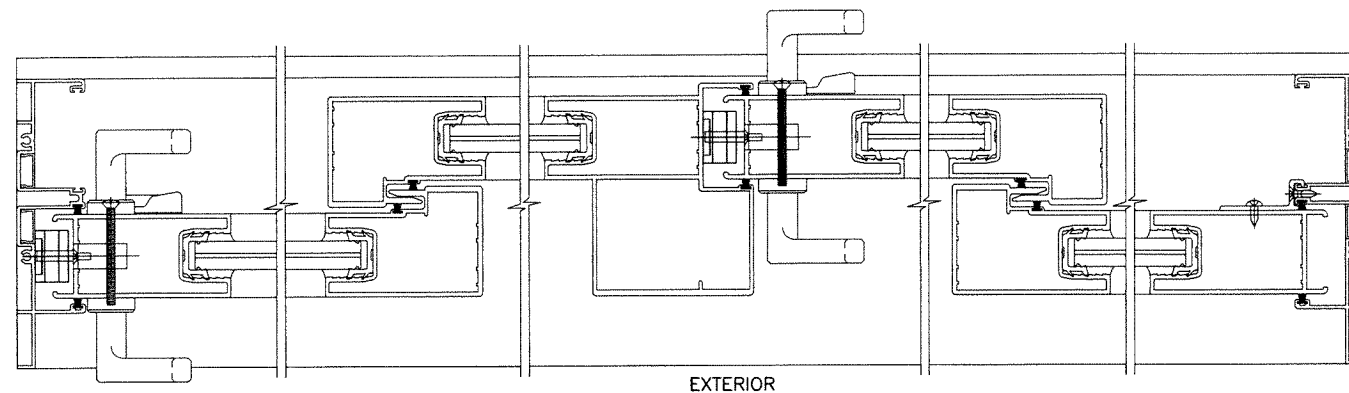
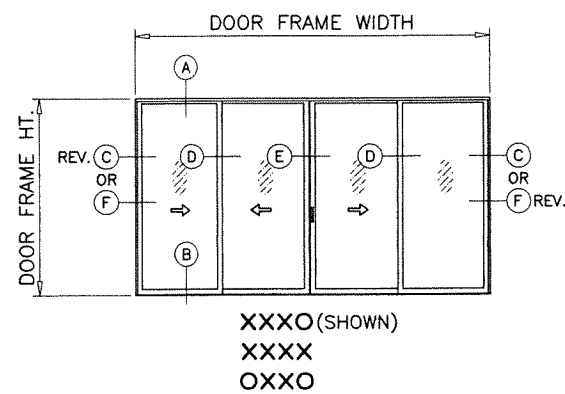
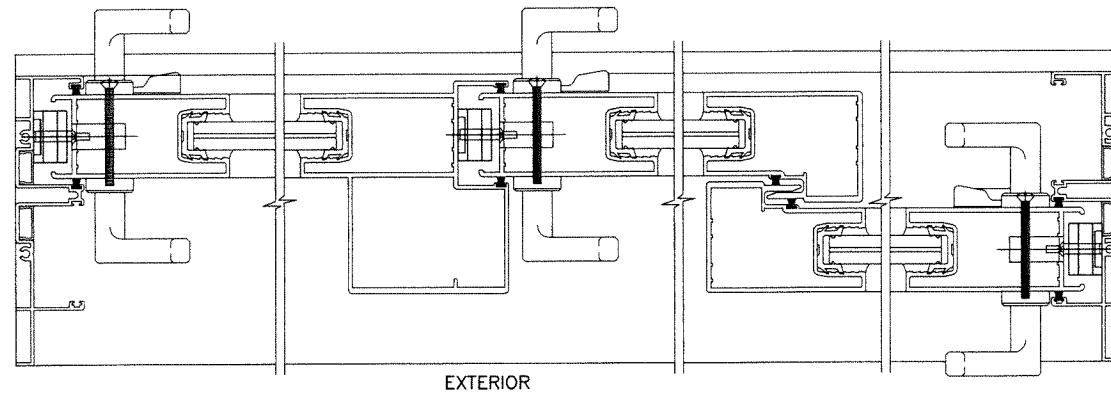
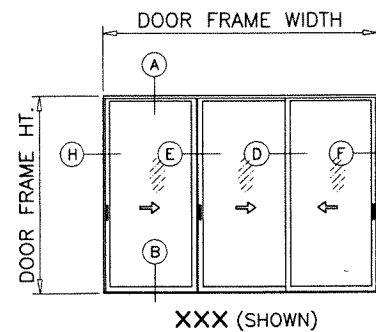
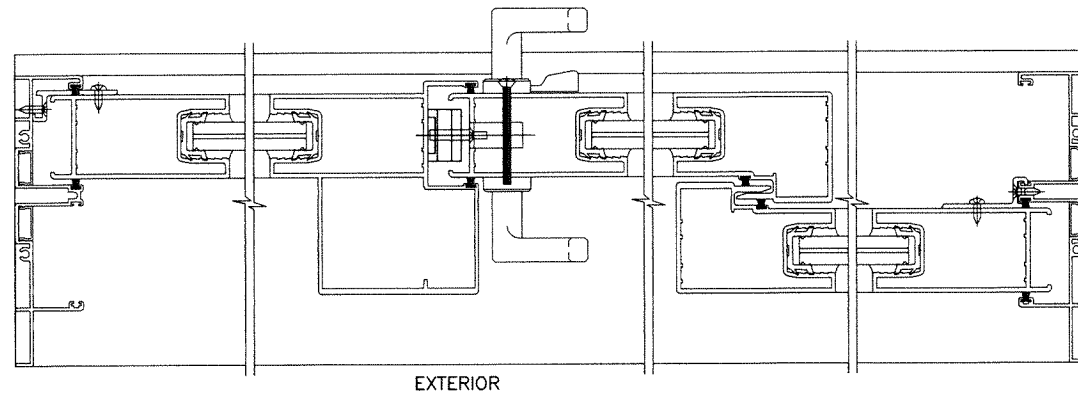
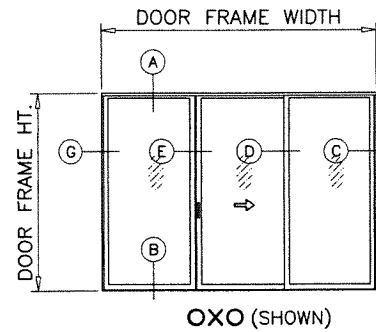
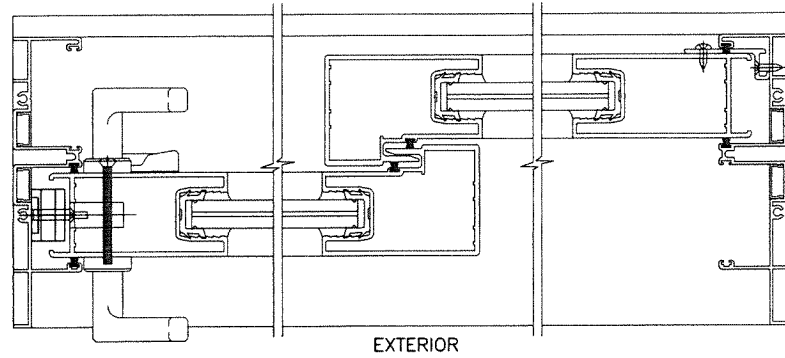
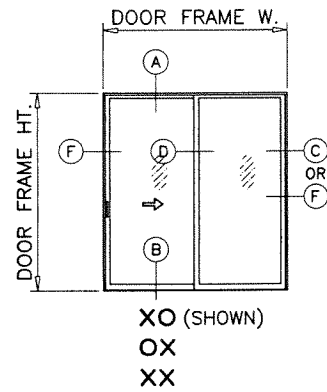
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dr. by: TARIQ

chk. by:

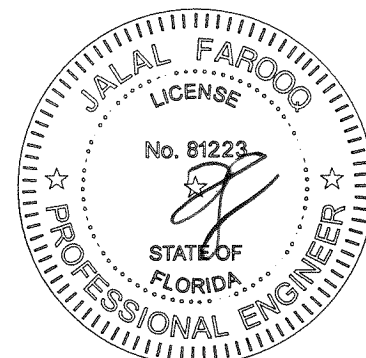
drawing no.
W11-41

sheet 1 of 13



NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEETS 3 THRU 5 AND ANCHOR INSTALLATION IN SHEET 6.

PRODUCT REVISED
as complying with the Florida
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Expiration Date 09/05/2024
By Ishag I. Chande
Miami-Dade Product Control



APPROVED CONFIGURATIONS

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

JUN 23 2021

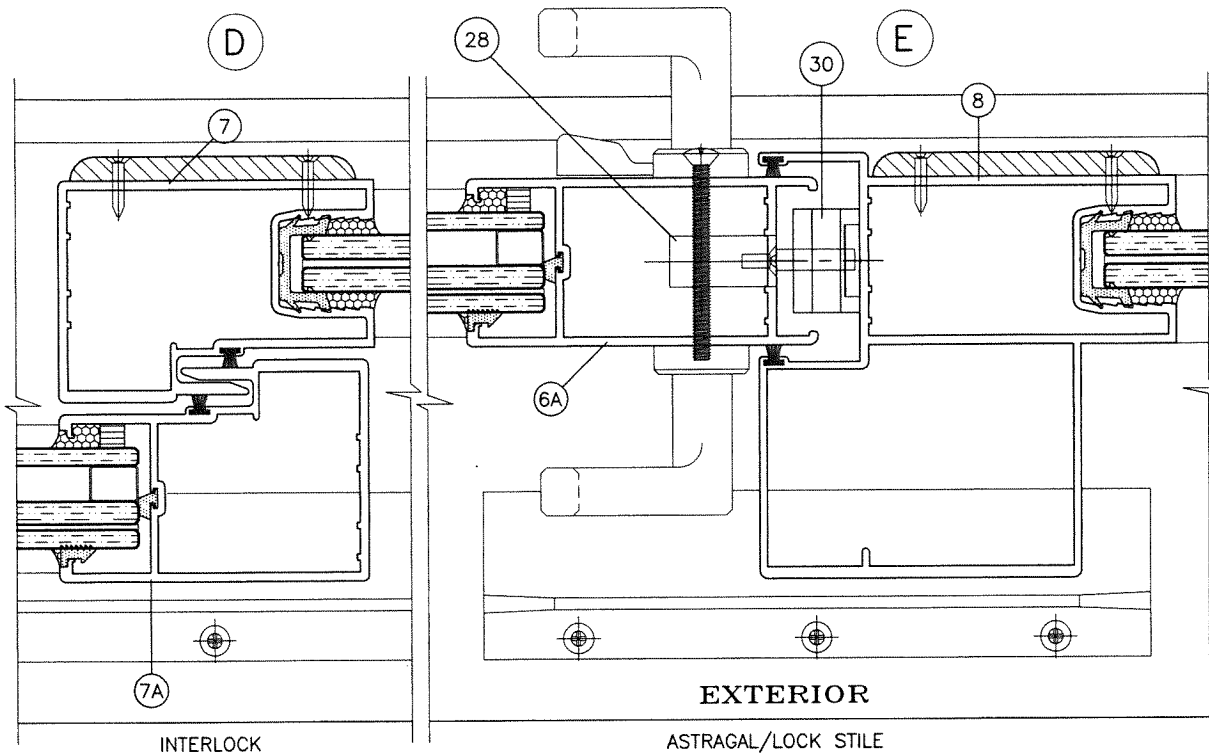
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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| revisions: | no | date | by | description |
|------------|----|----------|----|-----------------------|
| | C | 12.16.15 | | GENERAL REVISION |
| | D | 06.09.16 | | REV. PER RER COMMENTS |
| | E | 01.15.18 | | 3 TRACK OPTION ADDED |
| | F | 03.07.18 | | REV. PER RER COMMENTS |
| | G | 06.21.21 | | EDITORIAL CHANGES |

| | | | |
|----------------|----------|---------------|----------|
| date: 07-22-11 | scale: - | dr. by: TARIQ | chk. by: |
|----------------|----------|---------------|----------|

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| drawing no. | W11-41 |
| sheet | 2 of 13 |

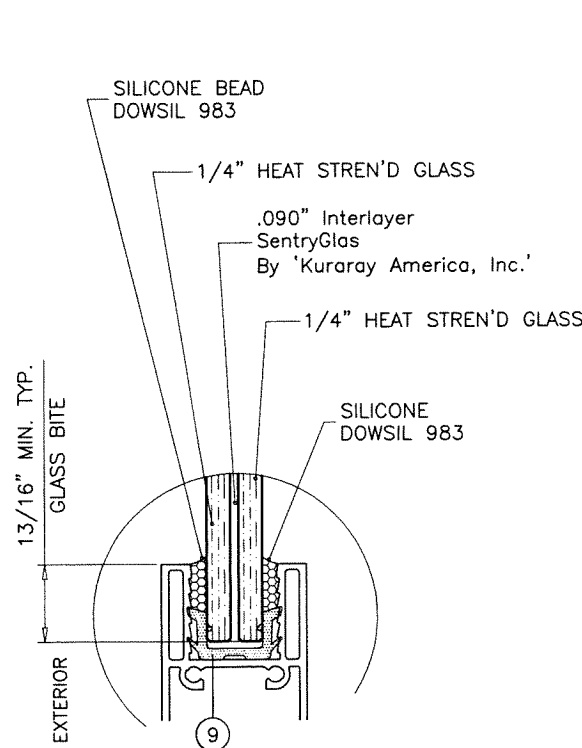


OPTION #1
WITHOUT REINFORCING

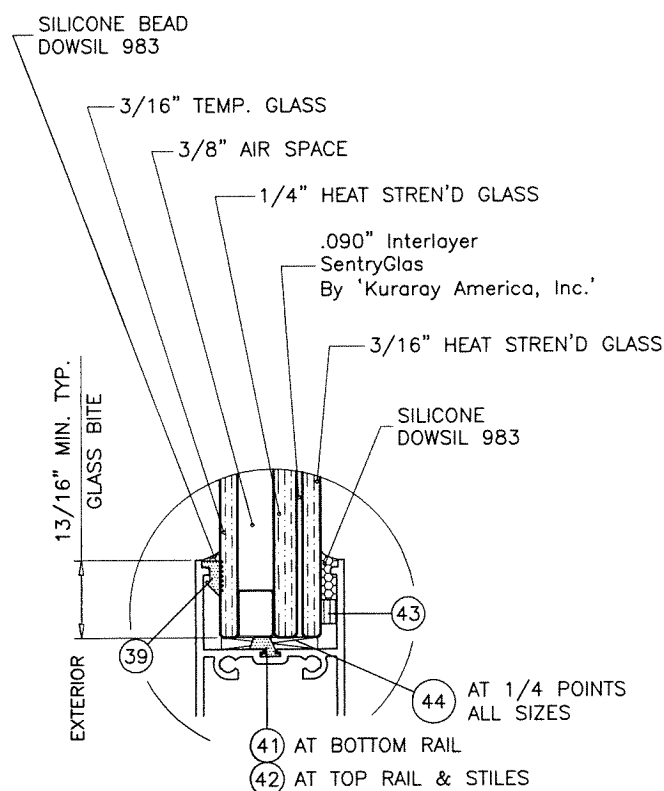
PRODUCT REVISED
as complying with the Florida
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NOA-No. 21-0628.16
Expiration Date 09/05/2024
By *Ishag I. Chande*
Miami-Dade Product Control

| DESIGN LOAD CAPACITY - PSF WITHOUT REINFORCING | | | | | |
|---------------------------------------------------|--------------------------------|----------------|---------|---------------------------------|---------|
| PANEL WIDTH NOMINAL INCHES | DOOR FRAME HEIGHT INCHES | GLASS TYPE 'A' | | GLASS TYPE 'B' & 'B' REVERSE | |
| | | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) |
| 30 | 82 | 75.0 | 75.0 | 75.0 | 75.0 |
| 36 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 42 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 44 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 48 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 53 | | 67.9 | 67.9 | 67.9 | 67.9 |
| 60 | | 60.0 | 60.0 | 60.0 | 60.0 |
| 30 | 96 | 75.0 | 75.0 | 75.0 | 75.0 |
| 36 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 42 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 44 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 48 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 53 | | 67.9 | 67.9 | 67.9 | 67.9 |
| 30 | 102 | 75.0 | 75.0 | 75.0 | 75.0 |
| 36 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 42 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 44 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 48 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 50 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 30 | 108 | 75.0 | 75.0 | 75.0 | 75.0 |
| 36 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 42 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 44 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 48 | | 75.0 | 75.0 | 75.0 | 75.0 |
| 48 | | 75.0 | 75.0 | 75.0 | 75.0 |

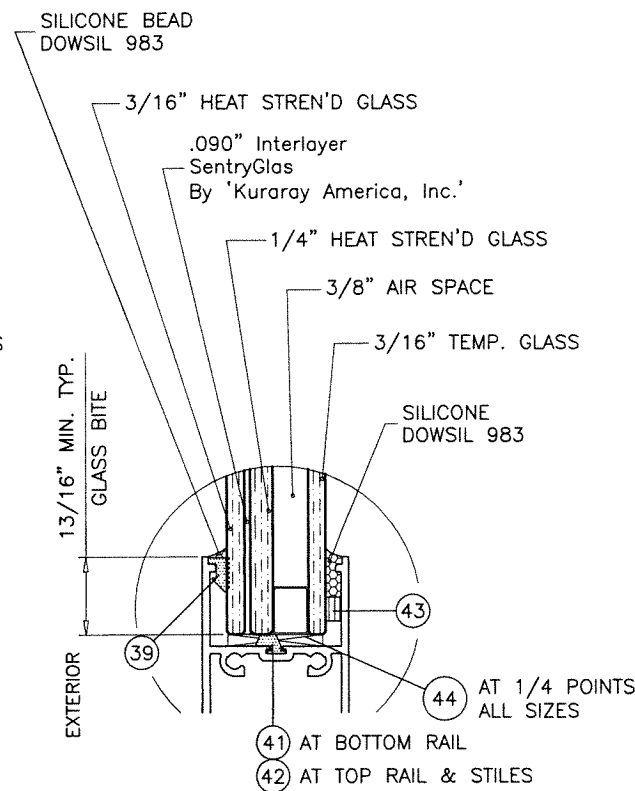
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



GLASS TYPE 'A'
9/16" OVERALL LAM. GLASS

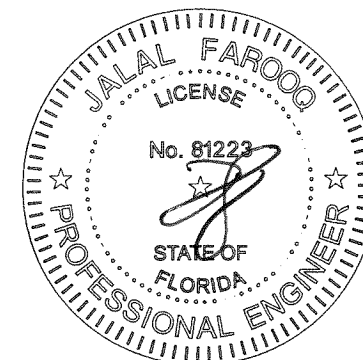


GLASS TYPE 'B'
1" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B' (REVERSE)
1" OVERALL INSUL. LAM. GLASS

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



JUN 23 2021

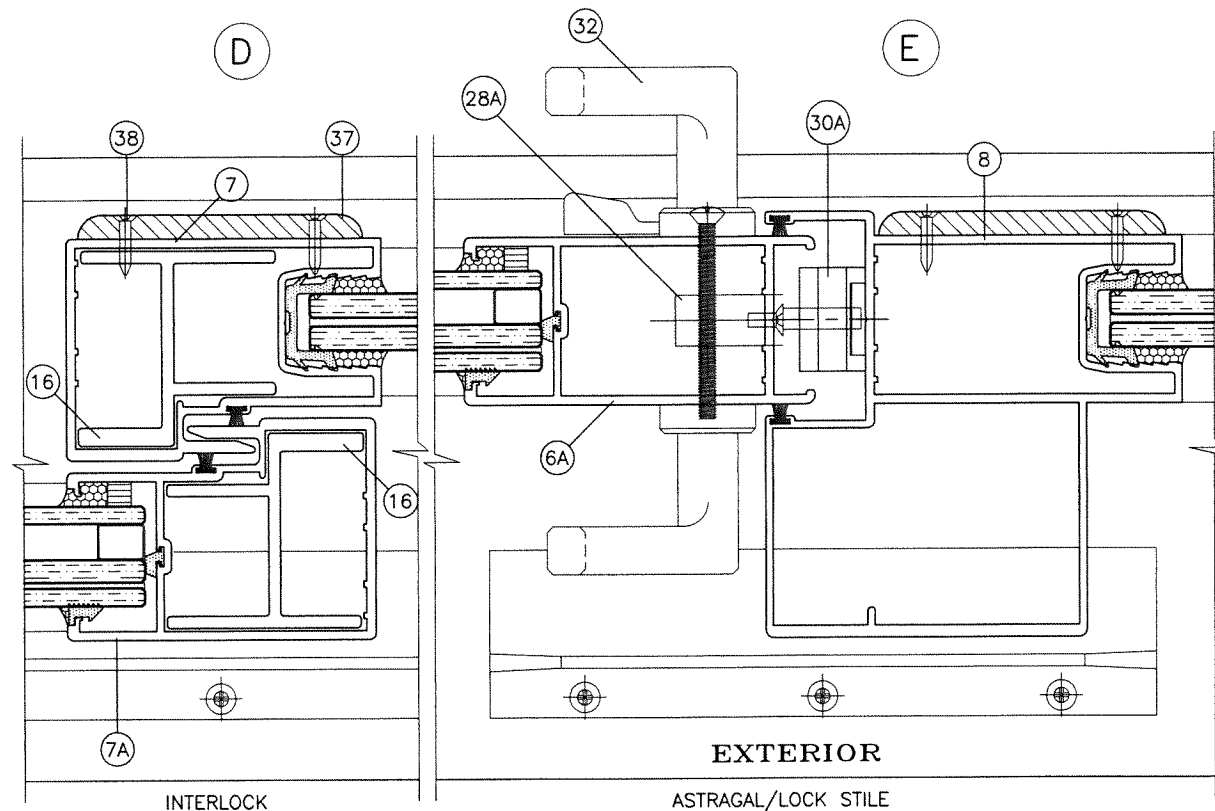
AL-FAROOQ CORPORATION
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| no. | date | by | description |
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| G | 06.21.21 | | EDITORIAL CHANGES |

date: 07-22-11
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W11-41
sheet 3 of 13

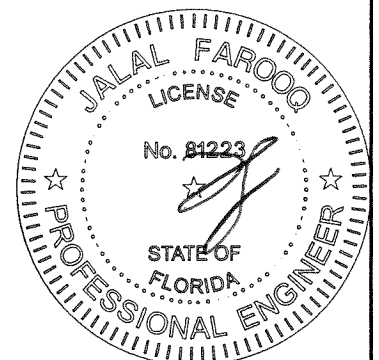


OPTION #2
ALUMINUM REINFORCING AT INTERLOCK

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.16
Expiration Date 09/05/2024
By Ishag 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 REINFORCING AT INTERLOCK | | | | | | | |
|--------------------------------------------------------|--------------------------------|----------------|----------|----------------|----------|---------------------------|----------|
| PANEL WIDTH NOMINAL INCHES | DOOR FRAME HEIGHT INCHES | GLASS TYPE 'A' | | GLASS TYPE 'B' | | GLASS TYPE 'B' REVERSE | |
| | | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) |
| 36 | 82 | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 48 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 50 | | 81.6 | 139.2 | 81.6 | 139.2 | 81.6 | 105.6 |
| 53 | | 77.0 | 131.3 | 77.0 | 131.3 | 77.0 | 99.6 |
| 56 | | 72.9 | 124.3 | 72.9 | 124.3 | 72.9 | 94.3 |
| 60 | | 68.0 | 116.0 | 68.0 | 116.0 | 68.0 | 88.0 |
| 36 | 96 | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 48 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 50 | | 81.6 | 139.2 | 81.6 | 139.2 | 81.6 | 105.6 |
| 53 | | 77.0 | 131.3 | 77.0 | 131.3 | 77.0 | 99.6 |
| 56 | | 72.9 | 94.3 | 72.9 | 94.3 | 72.9 | 94.3 |
| 60 | | 68.0 | 88.0 | 68.0 | 88.0 | 68.0 | 88.0 |
| 36 | 102 | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 48 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 50 | | 81.6 | 139.2 | 81.6 | 139.2 | 81.6 | 105.6 |
| 53 | | 77.0 | 99.6 | 77.0 | 99.6 | 77.0 | 99.6 |
| 56 | | 72.9 | 94.3 | 72.9 | 94.3 | 72.9 | 94.3 |
| 36 | 108 | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 145.0 | 85.0 | 145.0 | 85.0 | 110.0 |
| 48 | | 85.0 | 145.0 | 85.0 | 140.6 | 85.0 | 110.0 |
| 50 | | 81.6 | 105.6 | 81.6 | 105.6 | 81.6 | 105.6 |
| 53 | | 77.0 | 99.6 | 77.0 | 99.6 | 77.0 | 99.6 |
| 36 | 114 | 85.0 | 110.0 | 85.0 | 110.0 | 85.0 | 110.0 |
| 40 | | 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 |
| 48 | | 85.0 | 110.0 | 85.0 | 110.0 | 85.0 | 110.0 |
| 50 | | 81.6 | 105.6 | 81.6 | 105.6 | 81.6 | 105.6 |
| 36 | 120 | 85.0 | 110.0 | 85.0 | 110.0 | 85.0 | 110.0 |
| 40 | | 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 |
| 48 | | 85.0 | 110.0 | 85.0 | 110.0 | 85.0 | 110.0 |



JUN 23 2021

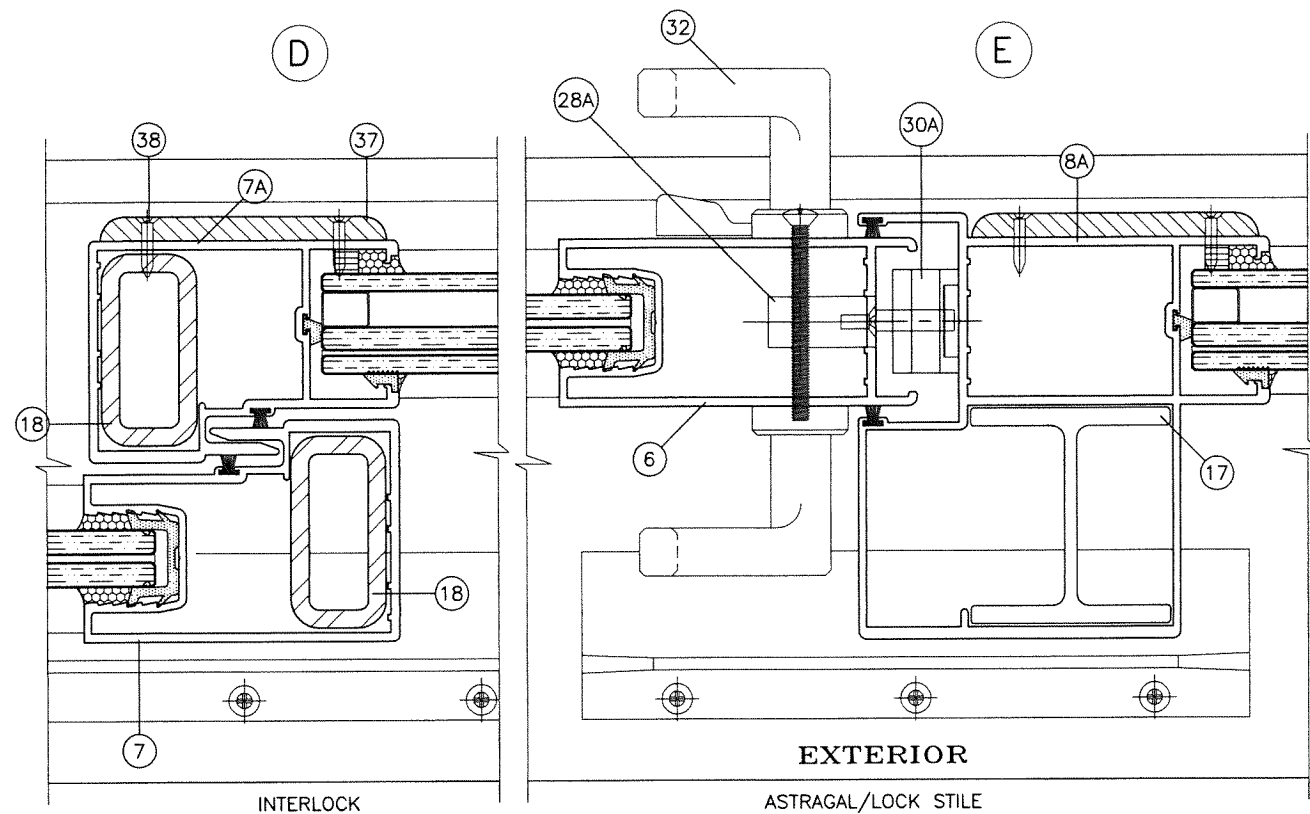
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-6000 ALUM SLIDING GLASS 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 |
|-----|----------|----|-----------------------|
| C | 12.16.15 | | GENERAL REVISION |
| D | 06.09.16 | | NO CHANGE THIS SHEET |
| E | 01.15.18 | | 3 TRACK OPTION ADDED |
| F | 03.07.18 | | REV. PER RER COMMENTS |
| G | 06.21.21 | | EDITORIAL CHANGES |

date: 07-22-11
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W11-41
sheet 4 of 13

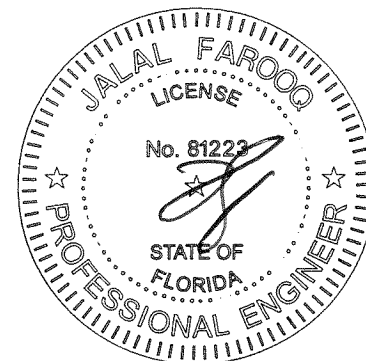


OPTION #3
STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.16
Expiration Date 09/05/2024
By Ishaq I. Chande
Miami-Dade Product Control

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

| DESIGN LOAD CAPACITY - PSF REINFORCING AT INTERLOCK & ASTRAGAL | | | | | | | |
|-------------------------------------------------------------------|--------------------------------|----------------|----------|----------------|----------|---------------------------|----------|
| PANEL WIDTH NOMINAL INCHES | DOOR FRAME HEIGHT INCHES | GLASS TYPE 'A' | | GLASS TYPE 'B' | | GLASS TYPE 'B' REVERSE | |
| | | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) |
| 36 | 82 | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 48 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 50 | | 81.6 | 124.8 | 81.6 | 124.8 | 81.6 | 105.6 |
| 53 | | 77.0 | 117.7 | 77.0 | 117.7 | 77.0 | 99.6 |
| 56 | | 72.9 | 111.4 | 72.9 | 111.4 | 72.9 | 94.3 |
| 60 | | 68.0 | 104.0 | 68.0 | 104.0 | 68.0 | 88.0 |
| 36 | 96 | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 48 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 50 | | 81.6 | 124.8 | 81.6 | 124.8 | 81.6 | 105.6 |
| 53 | | 77.0 | 117.7 | 77.0 | 117.7 | 77.0 | 99.6 |
| 56 | | 72.9 | 111.4 | 72.9 | 111.4 | 72.9 | 94.3 |
| 60 | | 68.0 | 104.0 | 68.0 | 104.0 | 68.0 | 88.0 |
| 36 | 102 | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 48 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 50 | | 81.6 | 124.8 | 81.6 | 124.8 | 81.6 | 105.6 |
| 53 | | 77.0 | 117.7 | 77.0 | 117.7 | 77.0 | 99.6 |
| 56 | | 72.9 | 111.4 | 72.9 | 111.4 | 72.9 | 94.3 |
| 36 | 108 | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 48 | | 85.0 | 125.7 | 85.0 | 125.7 | 85.0 | 110.0 |
| 50 | | 81.6 | 124.8 | 81.6 | 124.8 | 81.6 | 105.6 |
| 53 | | 77.0 | 117.7 | 77.0 | 117.7 | 77.0 | 99.6 |
| 36 | 114 | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 44 | | 85.0 | 125.2 | 85.0 | 125.2 | 85.0 | 110.0 |
| 48 | | 85.0 | 117.3 | 85.0 | 117.3 | 85.0 | 110.0 |
| 50 | | 81.6 | 105.6 | 81.6 | 105.6 | 81.6 | 105.6 |
| 36 | 120 | 85.0 | 130.0 | 85.0 | 130.0 | 85.0 | 110.0 |
| 40 | | 85.0 | 126.7 | 85.0 | 126.7 | 85.0 | 110.0 |
| 44 | | 85.0 | 117.6 | 85.0 | 117.6 | 85.0 | 110.0 |
| 48 | | 85.0 | 110.0 | 85.0 | 110.0 | 85.0 | 110.0 |



JUN 23 2021

af c

AL-FAROOQ CORPORATION
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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W11-41ES

SERIES-6000 ALUM SLIDING GLASS 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 |
|----|----------|----|-----------------------|
| C | 12.16.15 | | GENERAL REVISION |
| D | 06.09.16 | | NO CHANGE THIS SHEET |
| E | 01.15.18 | | 3 TRACK OPTION ADDED |
| F | 03.07.18 | | REV. PER RER COMMENTS |
| G | 06.21.21 | | EDITORIAL CHANGES |

date: 07-22-11

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W11-41
sheet 5 of 13

| HEAD ANCHOR LOAD CAPACITY - PSF | | | | | |
|----------------------------------|--------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| AVERAGE PANEL WIDTH INCHES | DOOR FRAME HEIGHT INCHES | ANCHOR TYPE 'A' | | ANCHOR TYPE 'B' | ANCHOR TYPE 'C' |
| | | 6 ANCHORS AT MTG. STILE ENDS | 7 ANCHORS AT MTG. STILE ENDS | 6 ANCHORS AT MTG. STILE ENDS | 6 ANCHORS AT MTG. STILE ENDS |
| | | INT. (-) | INT. (-) | INT. (-) | INT. (-) |
| 30 | 82 | 145.0 | 145.0 | 145.0 | 145.0 |
| 36 | | 145.0 | 145.0 | 145.0 | 145.0 |
| 40 | | 145.0 | 145.0 | 145.0 | 145.0 |
| 42 | | 145.0 | 145.0 | 145.0 | 145.0 |
| 44 | | 145.0 | 145.0 | 145.0 | 145.0 |
| 48 | | 145.0 | 145.0 | 145.0 | 145.0 |
| 50 | | 139.2 | 139.2 | 139.2 | 139.2 |
| 53 | | 131.3 | 131.3 | 131.3 | 131.3 |
| 56 | 96 | 124.3 | 124.3 | 124.3 | 124.3 |
| 60 | | 116.0 | 116.0 | 116.0 | 116.0 |
| 30 | | 145.0 | 145.0 | 145.0 | 145.0 |
| 36 | | 145.0 | 145.0 | 145.0 | 145.0 |
| 40 | | 135.9 | 145.0 | 145.0 | 145.0 |
| 42 | | 131.1 | 145.0 | 145.0 | 145.0 |
| 44 | | 126.8 | 145.0 | 145.0 | 145.0 |
| 48 | | 119.5 | 139.4 | 145.0 | 145.0 |
| 50 | 102 | 116.3 | 135.7 | 139.2 | 139.2 |
| 53 | | 112.1 | 130.0 | 131.3 | 131.3 |
| 56 | | 94.3 | 94.3 | 94.3 | 94.3 |
| 60 | | 88.0 | 88.0 | 88.0 | 88.0 |
| 30 | | 130.0 | 130.0 | 130.0 | 130.0 |
| 36 | | 130.0 | 130.0 | 130.0 | 130.0 |
| 40 | | 125.9 | 130.0 | 130.0 | 130.0 |
| 42 | | 121.4 | 130.0 | 130.0 | 130.0 |
| 44 | 108 | 117.3 | 130.0 | 130.0 | 130.0 |
| 48 | | 110.3 | 128.7 | 130.0 | 130.0 |
| 50 | | 107.3 | 125.1 | 130.0 | 130.0 |
| 53 | | 99.6 | 99.6 | 99.6 | 99.6 |
| 56 | | 94.3 | 94.3 | 94.3 | 94.3 |
| 30 | | 130.0 | 130.0 | 130.0 | 130.0 |
| 36 | | 127.5 | 130.0 | 130.0 | 130.0 |
| 40 | | 117.3 | 130.0 | 130.0 | 130.0 |
| 42 | 114 | 113.0 | 130.0 | 130.0 | 130.0 |
| 44 | | 109.1 | 127.3 | 130.0 | 130.0 |
| 48 | | 102.4 | 119.5 | 130.0 | 130.0 |
| 50 | | 99.5 | 105.6 | 105.6 | 105.6 |
| 53 | | 95.6 | 99.6 | 99.6 | 99.6 |
| 30 | | 110.0 | 110.0 | 110.0 | 110.0 |
| 36 | | 110.0 | 110.0 | 110.0 | 110.0 |
| 40 | | 109.8 | 110.0 | 110.0 | 110.0 |
| 42 | 120 | 105.7 | 110.0 | 110.0 | 110.0 |
| 44 | | 102.0 | 110.0 | 110.0 | 110.0 |
| 48 | | 95.6 | 110.0 | 110.0 | 110.0 |
| 50 | | 92.8 | 108.3 | 110.0 | 110.0 |
| 30 | | 110.0 | 110.0 | 110.0 | 110.0 |
| 36 | | 110.0 | 110.0 | 110.0 | 110.0 |
| 40 | | 103.2 | 110.0 | 110.0 | 110.0 |
| 42 | | 99.3 | 110.0 | 110.0 | 110.0 |
| 44 | 120 | 95.8 | 110.0 | 110.0 | 110.0 |
| 48 | | 89.6 | 104.6 | 110.0 | 110.0 |

EXT.(+) Dp = 85 PSF MAX.

| SILL ANCHOR LOAD CAPACITY - PSF | | | |
|----------------------------------|--------------------------------|------------------------------------|------------------------------------|
| AVERAGE PANEL WIDTH INCHES | DOOR FRAME HEIGHT INCHES | ANCHOR TYPE 'B' | |
| | | 4 ANCHORS AT MTG. STILE ENDS | 5 ANCHORS AT MTG. STILE ENDS |
| | | INT. (-) | INT. (-) |
| 30 | 82 | 145.0 | 145.0 |
| 36 | | 145.0 | 145.0 |
| 40 | | 145.0 | 145.0 |
| 42 | | 145.0 | 145.0 |
| 44 | | 145.0 | 145.0 |
| 48 | | 145.0 | 145.0 |
| 50 | | 139.2 | 139.2 |
| 53 | | 131.3 | 131.3 |
| 56 | 96 | 124.3 | 124.3 |
| 60 | | 116.0 | 116.0 |
| 30 | | 145.0 | 145.0 |
| 36 | | 145.0 | 145.0 |
| 40 | | 145.0 | 145.0 |
| 42 | | 142.6 | 145.0 |
| 44 | | 138.0 | 145.0 |
| 48 | | 130.0 | 145.0 |
| 50 | 102 | 126.6 | 139.2 |
| 53 | | 122.0 | 131.3 |
| 56 | | 94.3 | 94.3 |
| 60 | | 88.0 | 88.0 |
| 30 | | 130.0 | 130.0 |
| 36 | | 130.0 | 130.0 |
| 40 | | 130.0 | 130.0 |
| 42 | | 130.0 | 130.0 |
| 44 | 108 | 127.6 | 130.0 |
| 48 | | 120.0 | 130.0 |
| 50 | | 116.7 | 130.0 |
| 53 | | 99.6 | 99.6 |
| 56 | | 94.3 | 94.3 |
| 30 | | 130.0 | 130.0 |
| 36 | | 130.0 | 130.0 |
| 40 | | 127.6 | 130.0 |
| 42 | 114 | 123.0 | 130.0 |
| 44 | | 118.7 | 130.0 |
| 48 | | 111.4 | 130.0 |
| 50 | | 105.6 | 105.6 |
| 53 | | 99.6 | 99.6 |
| 30 | | 110.0 | 110.0 |
| 36 | | 110.0 | 110.0 |
| 40 | | 110.0 | 110.0 |
| 42 | 120 | 110.0 | 110.0 |
| 44 | | 110.0 | 110.0 |
| 48 | | 104.0 | 110.0 |
| 50 | | 101.0 | 110.0 |
| 30 | | 110.0 | 110.0 |
| 36 | | 110.0 | 110.0 |
| 40 | | 110.0 | 110.0 |
| 42 | | 108.1 | 110.0 |
| 44 | 120 | 104.2 | 110.0 |
| 48 | | 97.5 | 110.0 |

NOTE:
SEE SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN
DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM GLASS OR HEAD, SILL, JAMB ANCHOR CHARTS WILL
APPLY TO ENTIRE SYSTEM.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

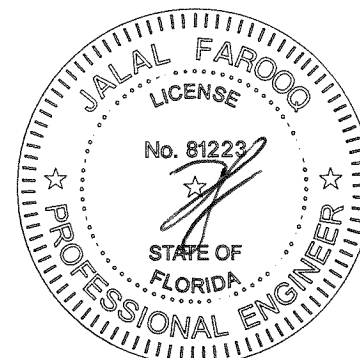
| AT HEAD | |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE 'A' - | 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD THRU 1BY BUCKS INTO CONCRETE 1-1/2" MIN. EMBED INTO CONCRETE |
| TYPE 'B' - | 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) DIRECTLY INTO CONCRETE 1-1/2" MIN. EMBED |
| TYPE 'C' - | #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR INTO METAL STRUCTURES (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED) |
| AT SILL | |
| TYPE 'B' - | 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) DIRECTLY INTO CONCRETE 1-3/4" MIN. EMBED |
| AT JAMBS | |
| TYPE 'A' - | 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD THRU 1BY BUCKS INTO CONC. OR BLOCKS 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS |
| TYPE 'B' - | 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) DIRECTLY INTO CONC. OR BLOCKS 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS |
| TYPE 'C' - | #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR INTO METAL STRUCTURES (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED) |

ANCHOR EDGE DISTANCES

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

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.16
Expiration Date 09/05/2024
By *Ishag I. Chande*
Miami-Dade Product Control



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

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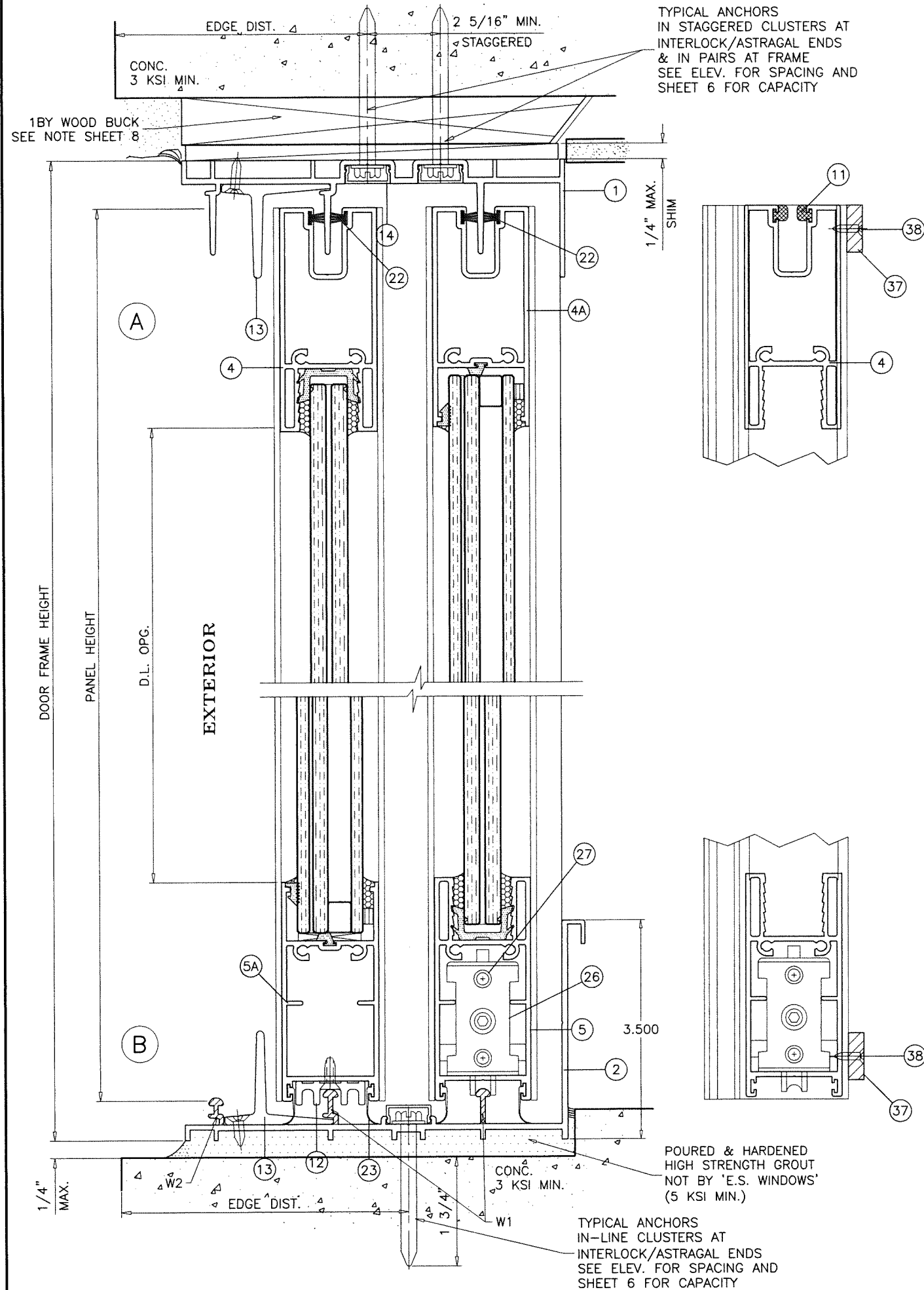
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| C | 12.16.15 | GENERAL REVISION |
| D | 06.09.16 | REV. PER RER COMMENTS |
| E | 01.15.18 | 3 TRACK OPTION ADDED |
| F | 03.07.18 | REV. PER RER COMMENTS |
| G | 06.21.21 | EDITORIAL CHANGES |

date: 07-22-11
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W11-41

sheet 6 of 13

JUN 23 2021



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.16

Expiration Date 09/05/2024

By Ishaq I. Chande
Miami-Dade Product Control

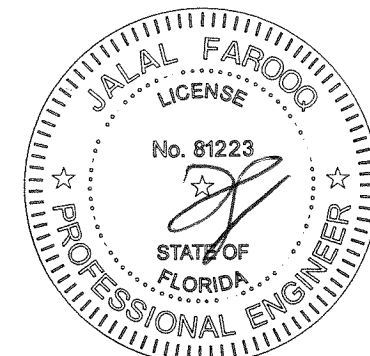
SEALANT:

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

WEEPHOLES:

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

JUN 23 2021



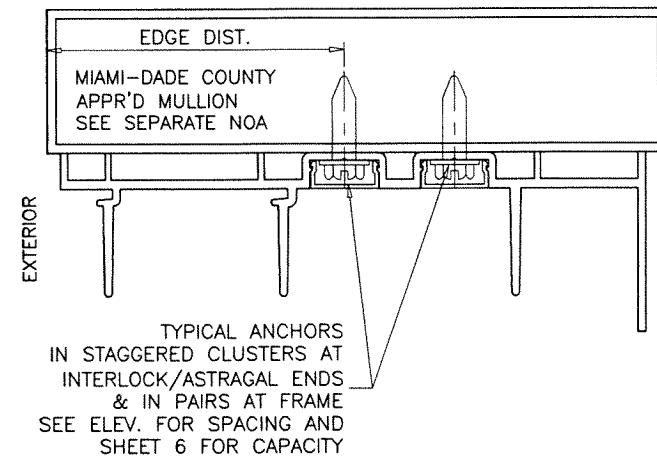
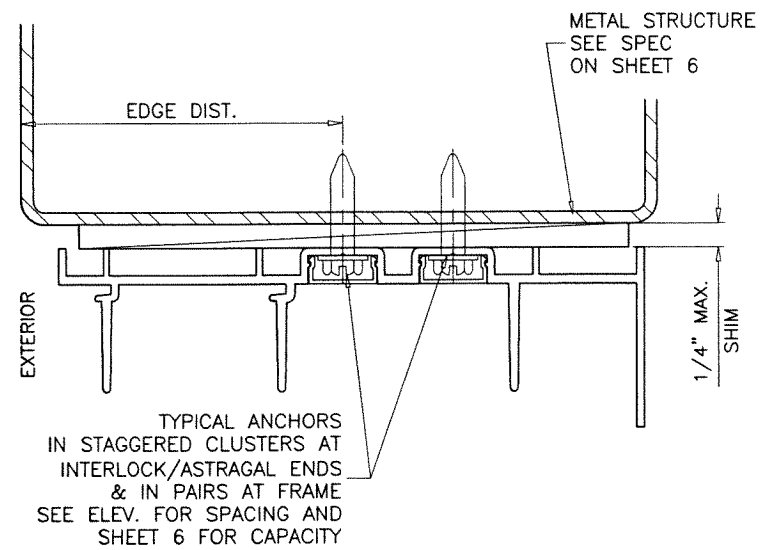
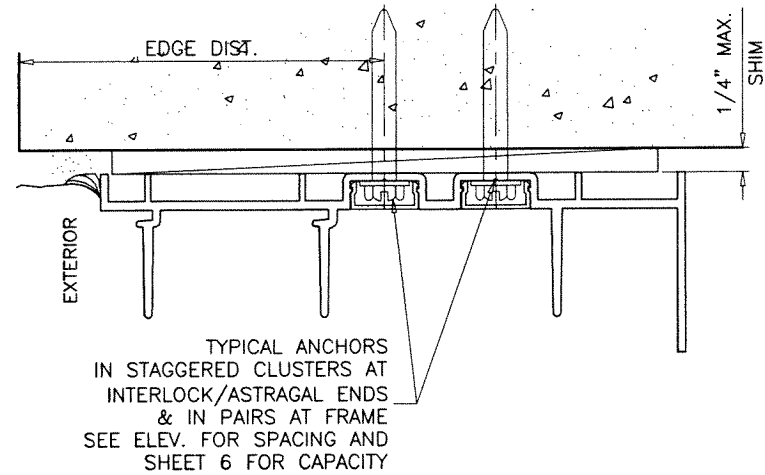
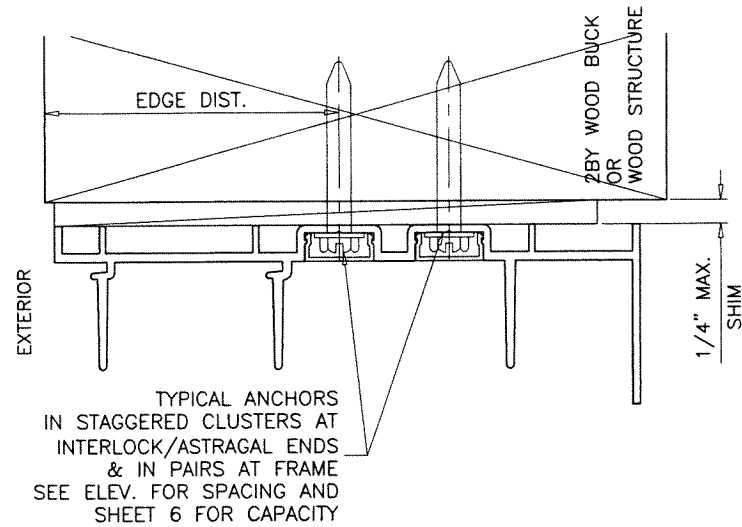
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| | | | |
|----------------|------------------|---------------|----------|
| date: 07-22-11 | scale: 1/2" = 1" | dr. by: TARIQ | chk. by: |
|----------------|------------------|---------------|----------|

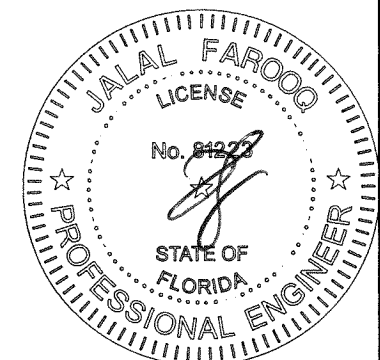
| | |
|-------------|---------|
| drawing no. | W11-41 |
| sheet | 7 of 13 |



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0628.16
Expiration Date 09/05/2024
By Ishag I. Chande
Miami-Dade Product Control

PROPERLY SECURED 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



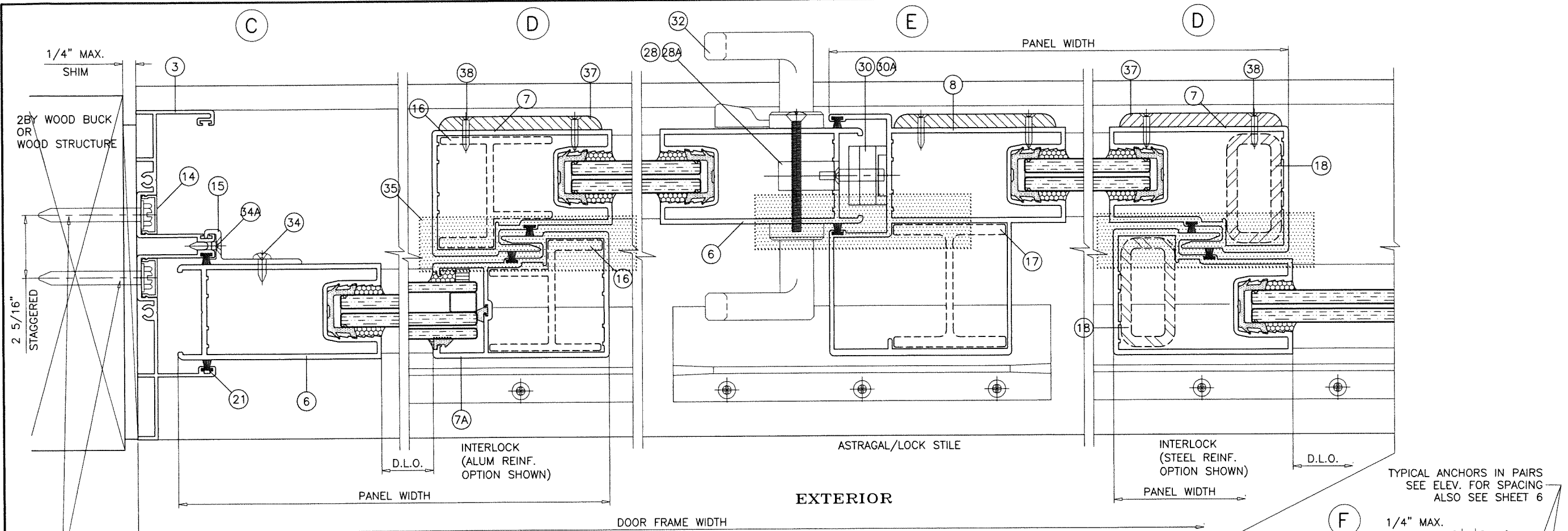
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TEL. (305) 638-5151 FAX. (305) 638-5158

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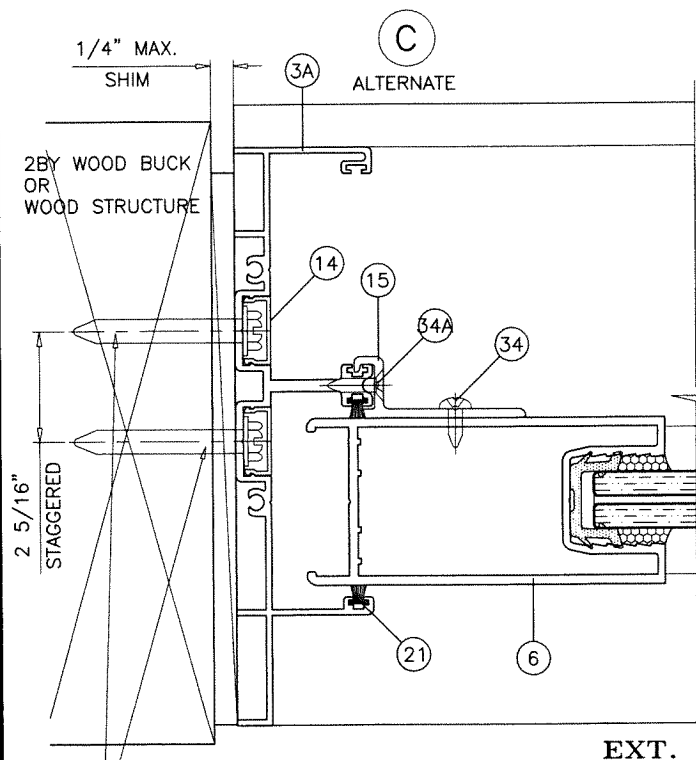
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| drawing no. | W11-41 |
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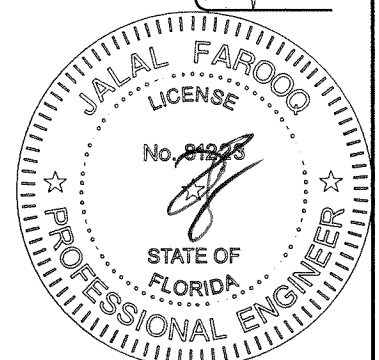
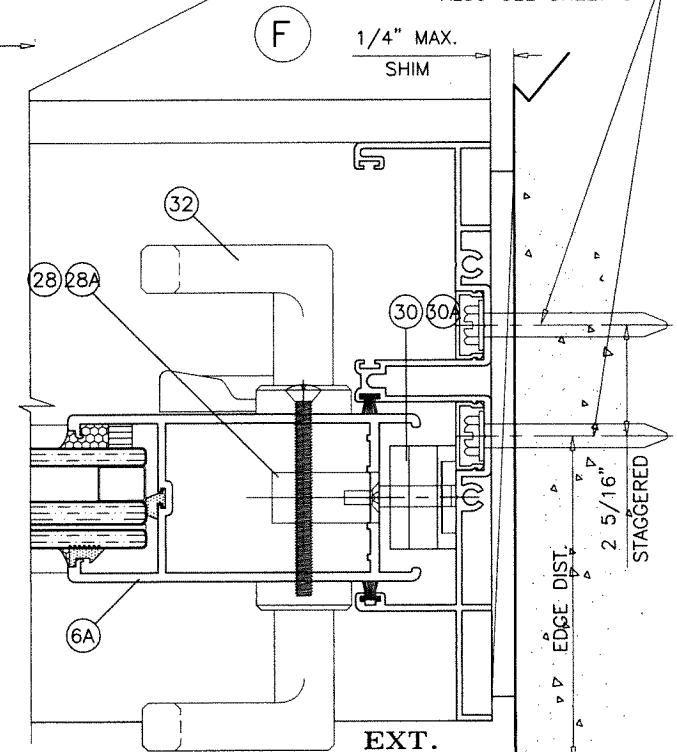
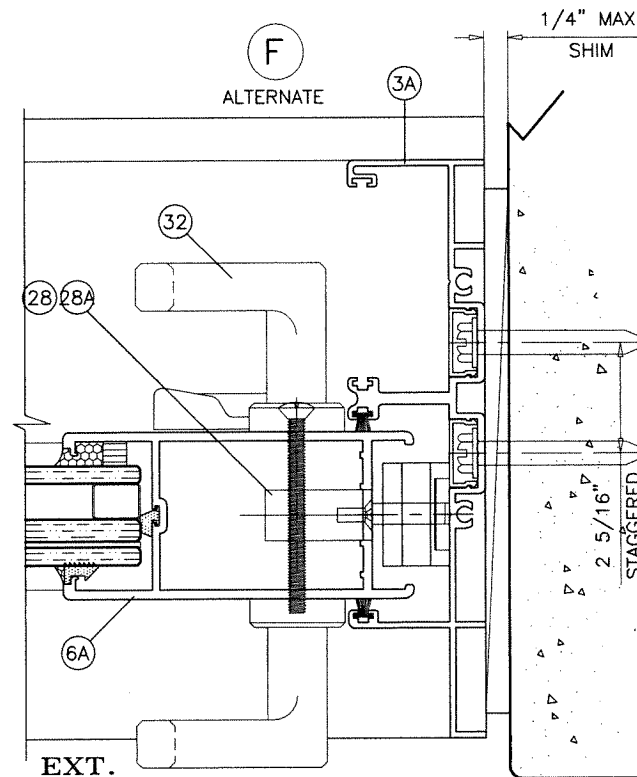
TYPICAL ANCHORS IN PAIRS
SEE ELEV. FOR SPACING

ALUMINUM OR STEEL REINFORCING AT INTERLOCK AND ALUM REINF. ASTRAGAL/LOCK STILES
SHOWN FOR ILLUSTRATION ONLY.
USE AS SHOWN ON SHEETS 4 & 5.
SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
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By Ismael L. Chanda
Miami-Dade Product Control



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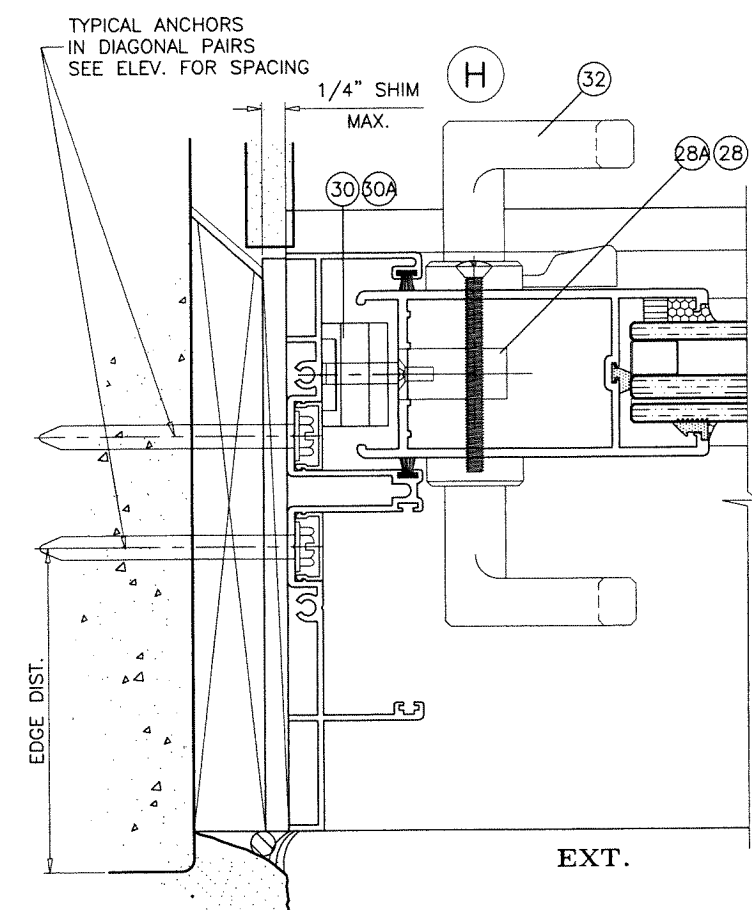
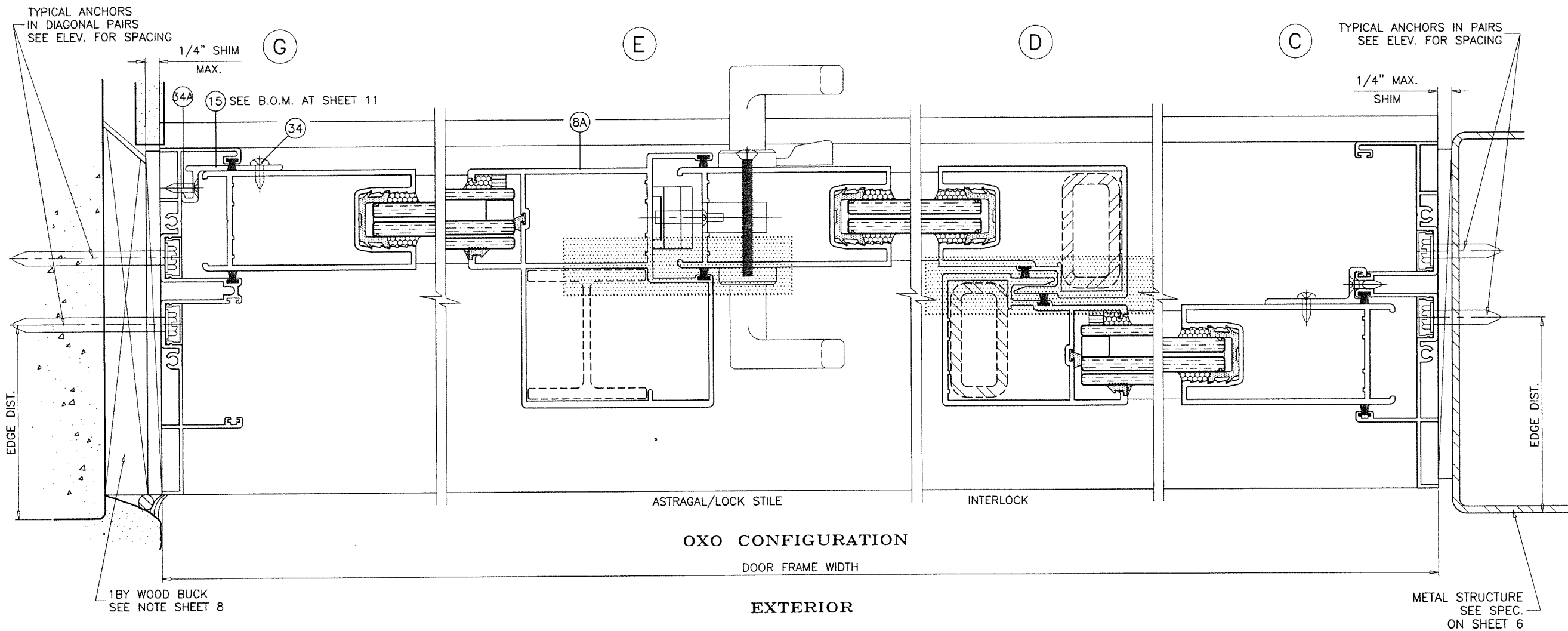
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W11-41ES

SERIES-6000 ALUM SLIDING GLASS 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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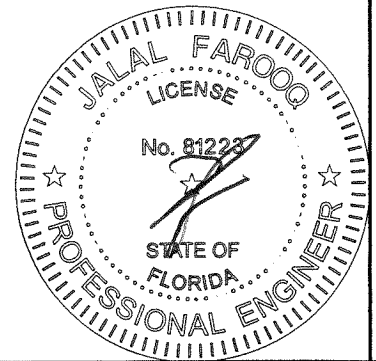
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sheet 9 of 13



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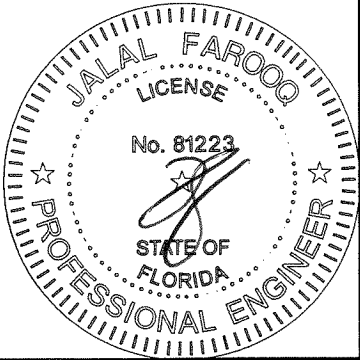
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drawing no.
W11-41
 sheet 10 of 13

| ITEM # | PART # | QUANTITY | DESCRIPTION | MATERIAL | MANF./SUPPLIER/REMARKS |
|--------|-----------------------|---------------|--------------------------------------------------------|--------------|------------------------------------------|
| 1 | ES-6001 | 1 | FRAME HEAD | 6005-T5 | - |
| 2 | ES-6023 | 1 | FRAME SILL - 3-1/2" | 6005-T5 | - |
| 3 | ES-6003 | 2 | FRAME JAMB | 6063-T6 | - |
| 3A | ES6030 | 2 | ALTERNATE FRAME JAMB | 6063-T6 | - |
| 4 | ES-6000-040 | 2/ PANEL | TOP RAIL (LAM. GLASS) | 6063-T6 | - |
| 4A | ES-6004 | 2/ PANEL | TOP RAIL (INSUL. LAM. GLASS) | 6063-T6 | - |
| 5 | ES-6000-041 | 2/ PANEL | BOTTOM RAIL (LAM. GLASS) | 6063-T6 | - |
| 5A | ES-6005 | 2/ PANEL | BOTTOM RAIL (INSUL. LAM. GLASS) | 6063-T6 | - |
| 6 | ES-6000-042 | AS REQD. | LOCK STILE (LAM. GLASS) | 6063-T6 | - |
| 6A | ES-6006 | AS REQD. | LOCK STILE (INSUL. LAM. GLASS) | 6063-T6 | - |
| 7 | ES-6000-043 | AS REQD. | INTERLOCK (LAM. GLASS) | 6063-T6 | - |
| 7A | ES-6007 | AS REQD. | INTERLOCK (INSUL. LAM. GLASS) | 6063-T6 | - |
| 8 | ES-6000-044 | AS REQD. | FEMALE ASTRAGAL (LAM. GLASS) | 6063-T6 | - |
| 8A | ES-6008 | AS REQD. | FEMALE ASTRAGAL (INSUL. LAM. GLASS) | 6063-T6 | - |
| 9 | ES-6500-G01A | 4/ PANEL | GLAZING GASKET (LAM. GLASS) | SILICONE | DUROMETER 65±5 SHORE A, EXTRUSIONES S.A. |
| 11 | ES-6016 | 4/ PANEL | PANEL GUIDE (TOP ONLY) | CELCON | LOCATED AT PANEL ENDS |
| 12 | ES-6015 | 2/ PANEL | FIXED PANEL BOTTOM CLIP , 7" LONG MIN. | 6063-T6 | SECURE W/ (2) #8 X 3/4" FH SMS |
| 13 | ES-6010 | 2/ PANEL | RETAINER CLIP, 6" LONG | 6005-T5 | AT MTG. RAIL HEAD & SILL ENDS |
| 14 | ES-6011 | 2/ JAMB | JAMB SCREW COVER | 6063-T5 | OPTIONAL |
| 15 | ES-6014 | AS REQD. | FIXED PANEL CLIP, 4" LONG | 6063-T6 | AT 20" FROM EACH END AND 27" O.C. MAX. |
| 16 | ES-6012 | AS REQD. | INTERLOCK STIFFENER (LENGTH = PANEL HT. - 2-3/8") | 6063-T6 | - |
| 17 | ES-6013 | AS REQD. | ASTRAGAL STIFFENER (LENGTH = PANEL HT. - 2-3/8") | 6063-T6 | - |
| 18 | 1" X 2" X 3/16" | AS REQD. | STEEL TUBE REINFORCING (LENGTH = PANEL HT. - 2-3/8") | A36 STEEL | TO BE PAINTED |
| 21 | W222521K | AS REQD. | STILE & JAMB W'STRIPPING | - | ULTRAFAB |
| 22 | W223221K | AS REQD. | TOP RAIL PILE W'STRIPPING | - | ULTRAFAB |
| 23 | ES-6027 | AS REQD. | BOTTOM RAIL W'STRIPPING | EPDM | DUROMETER 75±4 SHORE A |
| 24 | #10 X 1-1/2" PH SMS | 8/ PANEL | PANEL ASSY SCREWS | - | - |
| 25 | #10 X 1" PH SMS | 2/ CORNER | FRAME ASSY SCREWS | - | - |
| 26 | GTT-354/460-A | 2/ MOV. PANEL | TANDEM ACETAL WHEELS IN METALLIC HOUSING | - | PABOSE |
| 27 | 1/4-20 X 1-3/4" PH MS | 2/ ROLLER | ROLLER INST. SCREWS | - | - |
| 28 | 191056 | 1/ MOV. PANEL | STD. MORTISE LOCK, AT 40" FROM BOTTOM | ST. STEEL | INTERLOCK (ASSA ABLOY) |
| 28A | 191014 | 1/ MOV. PANEL | MULTI POINT MORTISE LOCK, AT 40" FROM BOTTOM | ST. STEEL | INTERLOCK (ASSA ABLOY) |
| 29 | #10-24 X 3/8" PH MS | 2/ LOCK | LOCK INSTALLATION SCREW | ST. STEEL | - |
| 30 | 191018 | 1/ LOCK | LOCK KEEPER (STD. LOCK), AT 48-1/2" FROM BOTTOM | PLATED STEEL | INTERLOCK (ASSA ABLOY) |
| 30A | 191040 | 1/ LOCK | LOCK KEEPER (MULTI POINT LOCK), AT 48-1/2" FROM BOTTOM | ST. STEEL | INTERLOCK (ASSA ABLOY) |
| 31 | #10 X 5/8" PH SMS B | 2/ LOCK | LOCK KEEPER MOUNT. SCREW (STD. LOCK) | ST. STEEL | - |
| 31A | #8 X 3/4" FH SMS | 4/ LOCK | LOCK KEEPER MOUNT. SCREW (MULTI POINT LOCK) | ST. STEEL | - |
| 32 | #623Z | 1/ LOCK | INTERIOR AND EXTERIOR PULL | - | (3) #6-32 X 1/2" FH MS, ST. STEEL |
| 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 | ES-6019 | AS REQD. | RESTRAINING PLATE | NYLON | AT TOP & BOTT. INTERLOCKS & ASTRAGAL |
| 38 | #8 X 3/4" FH SMS | 2/ PLATE | RESTRAINING PLATE FASTENER | - | - |
| 39 | ES-4013 | AS REQD. | GLAZING WEDGE | - | - |
| 41 | ES-4014 | AS REQD. | BOTTOM RAIL GLASS STOP | EPDM | DUROMETER 68±4 SHORE A |
| 42 | ES-4018 | AS REQD. | TOP RAIL & STILES GLASS STOP | EPDM | DUROMETER 75±4 SHORE A |
| 43 | - | AS REQD. | 1/4" X 1/4" GLAZING TAPE | FOAM | - |
| 44 | - | 2/ LITE | SETTING BLOCK, 1" X 1/8" X 2-1/2" LONG | EPDM | DUROMETER 80±5 SHORE A |

LATCHES:
LIMIT ITEMS 28 AND 30 FOR USE WITH DOORS WITHOUT REINFORCING OPTION 1.
ITEMS 28A AND 30A CAN BE USED FOR ALL DOORS WITH OR WITHOUT REINFORCINGS.

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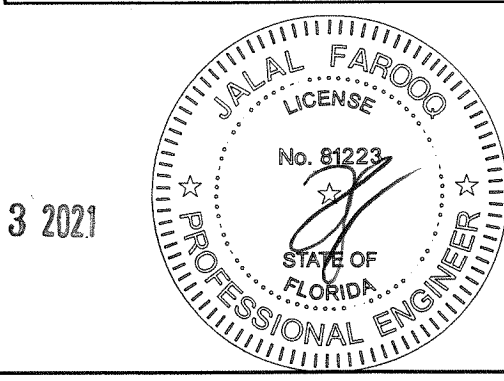
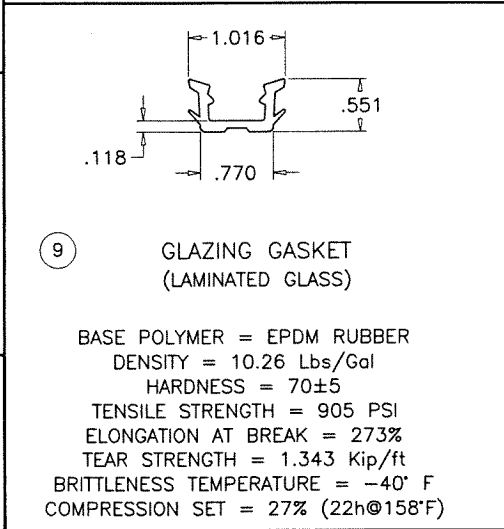
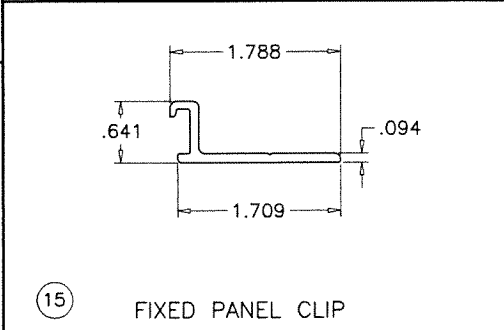
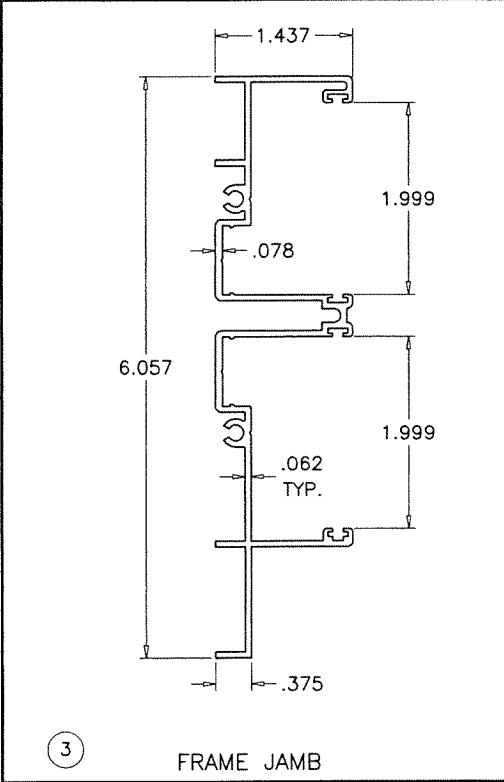
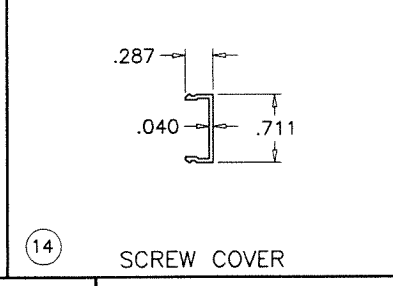
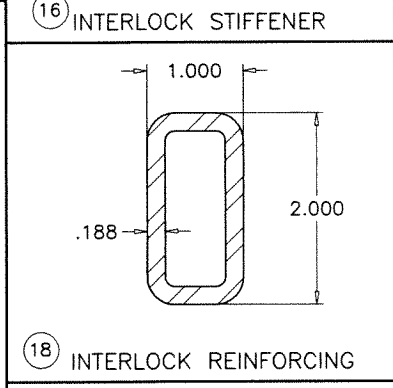
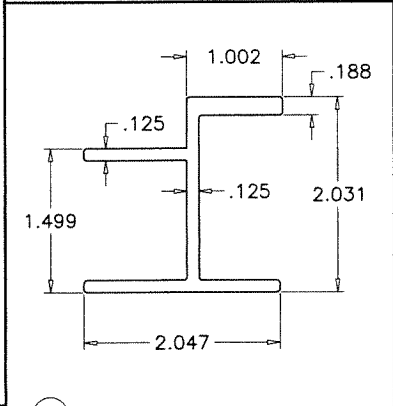
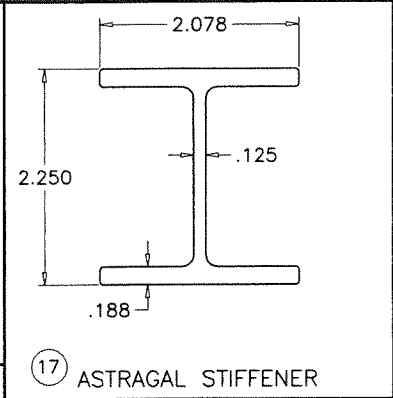
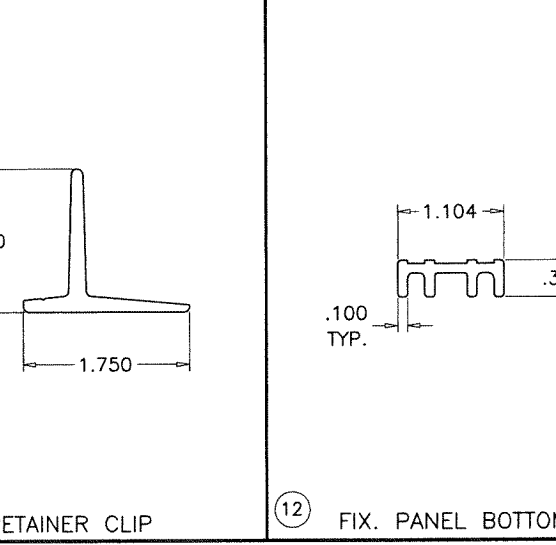
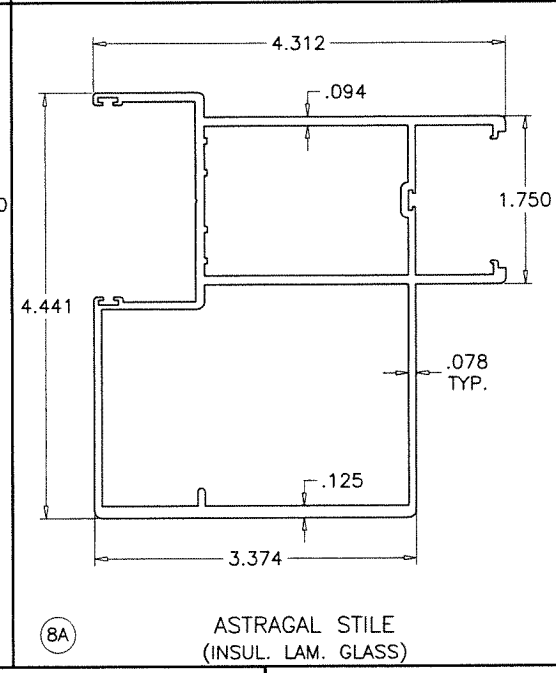
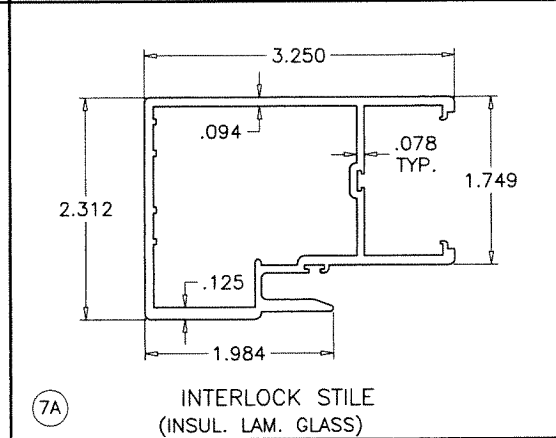
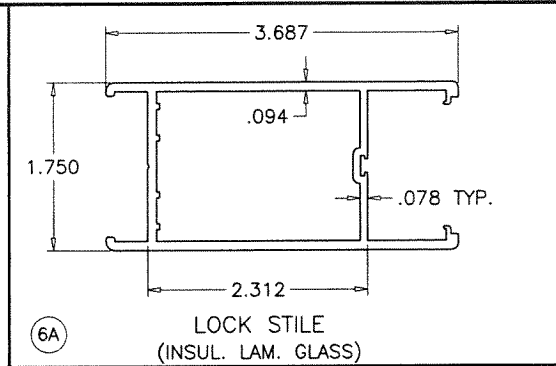
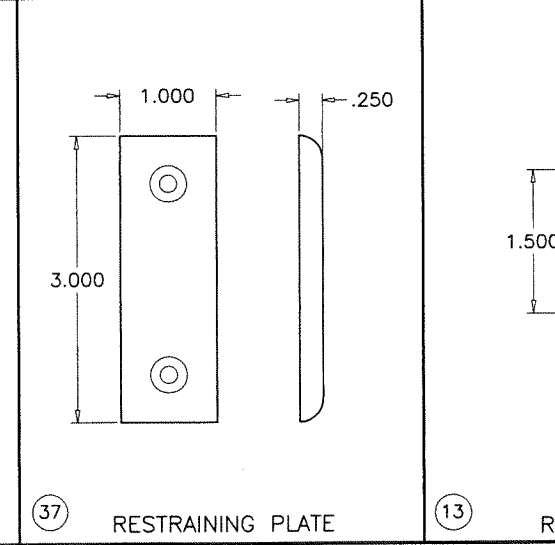
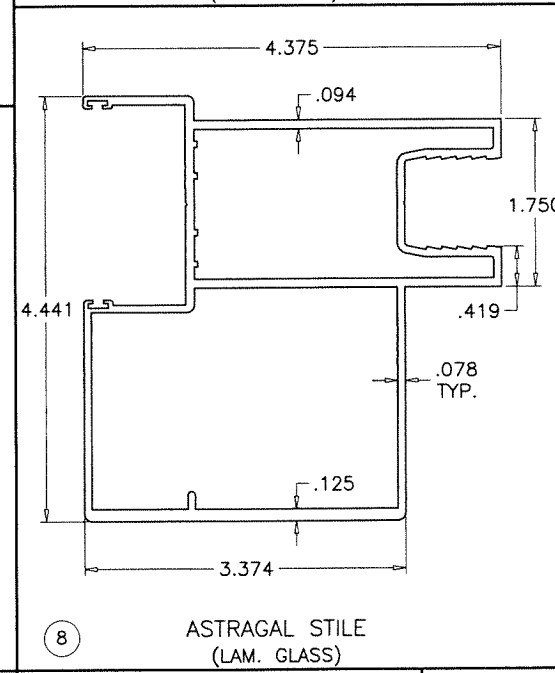
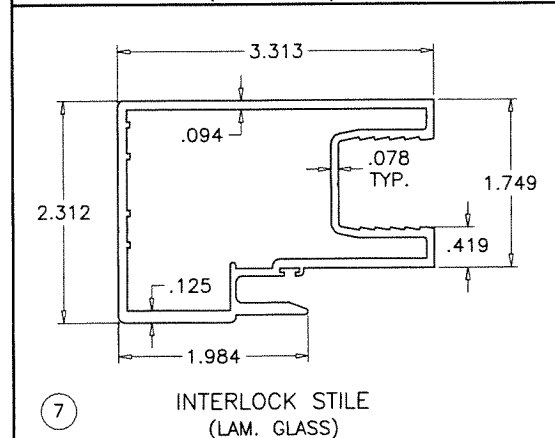
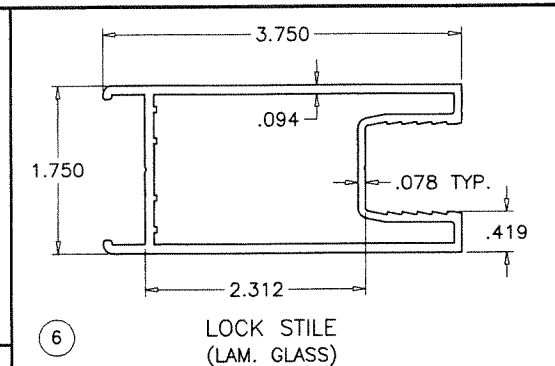
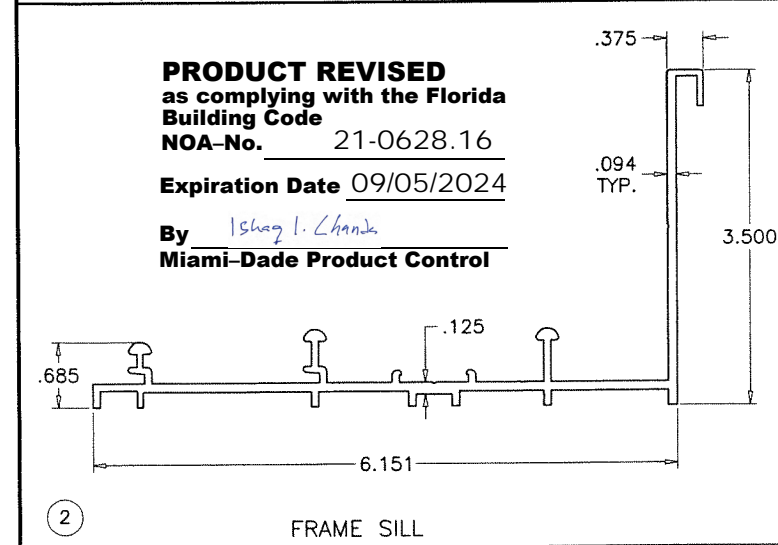
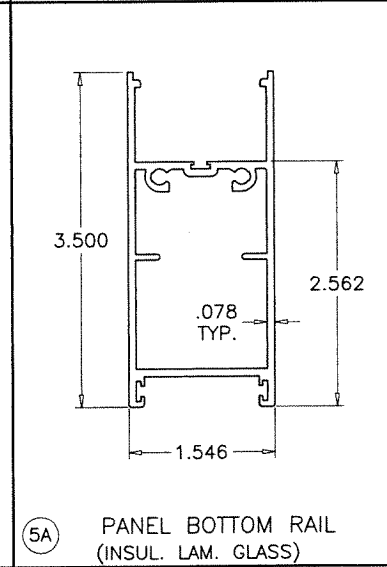
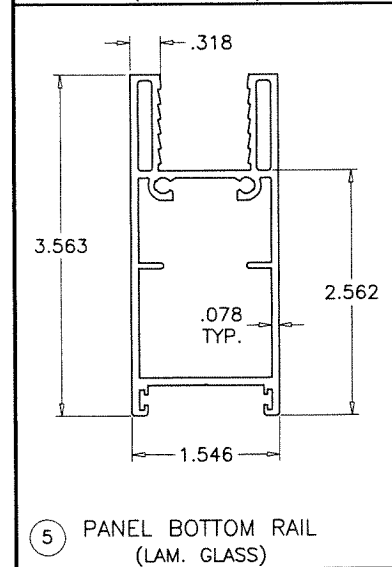
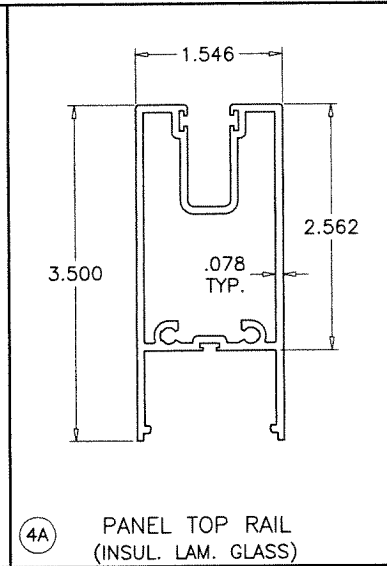
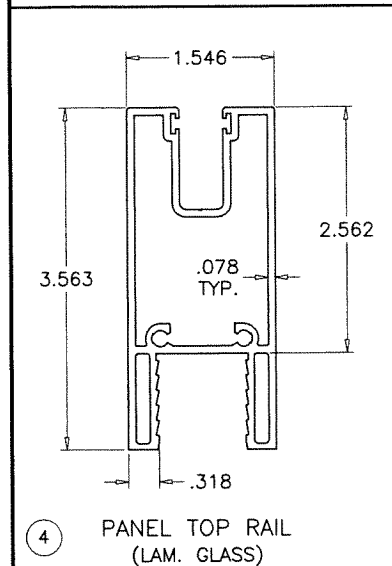
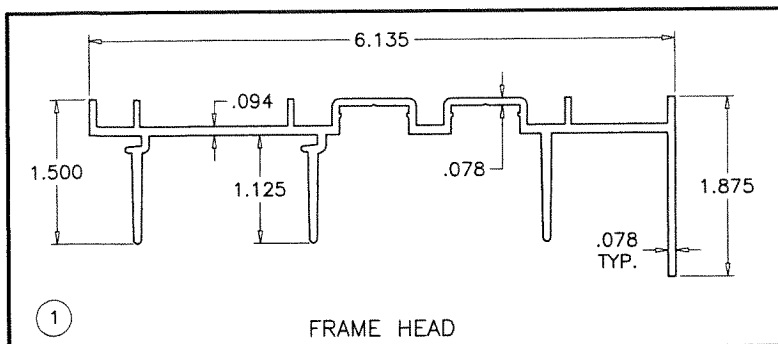
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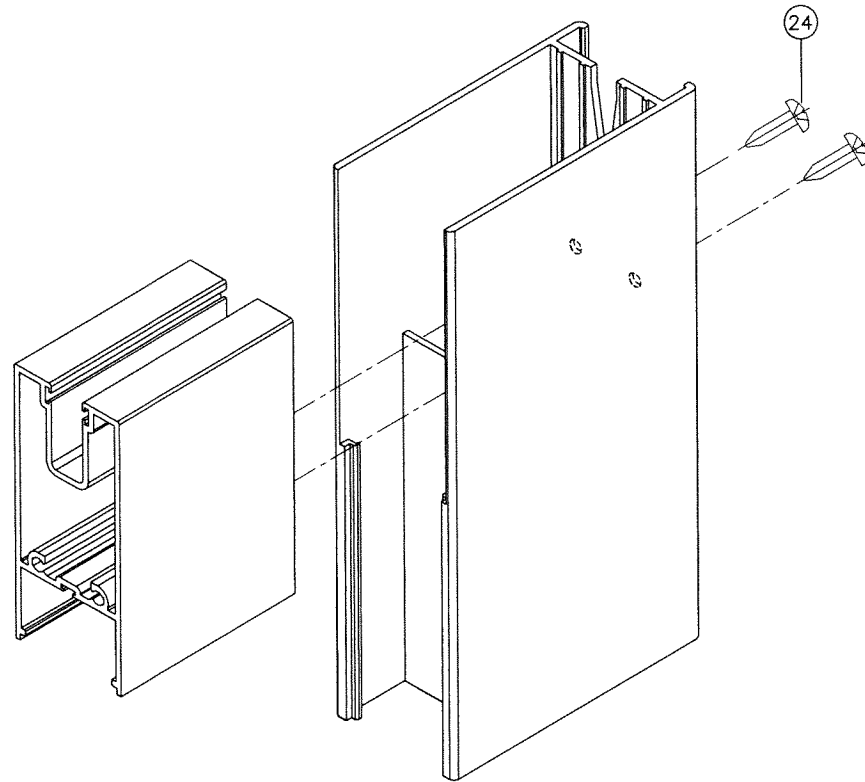


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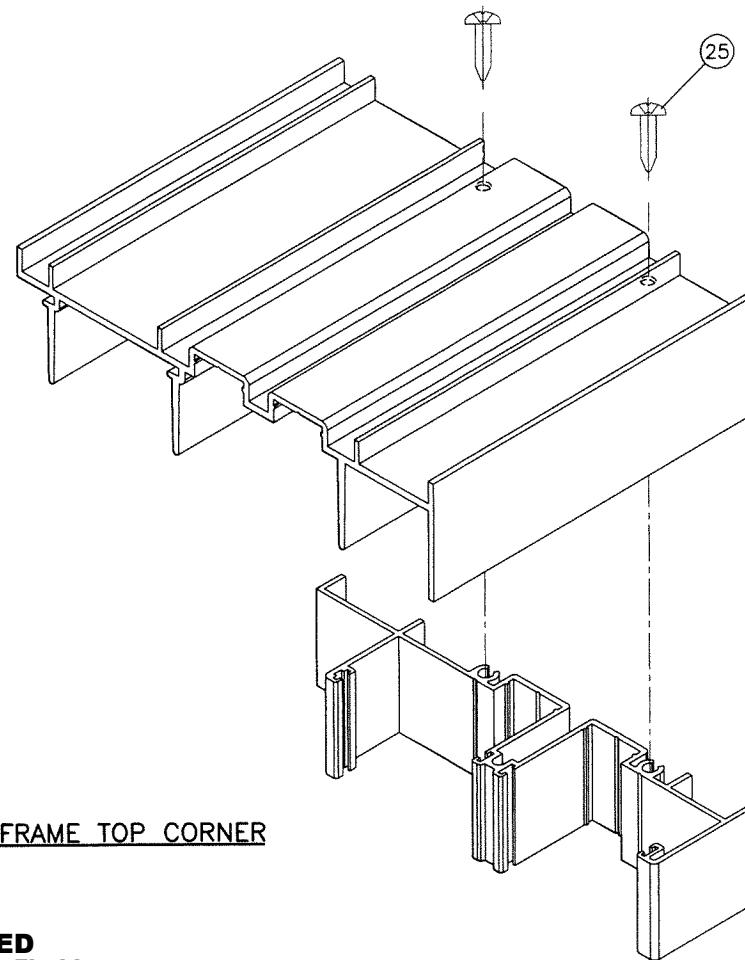
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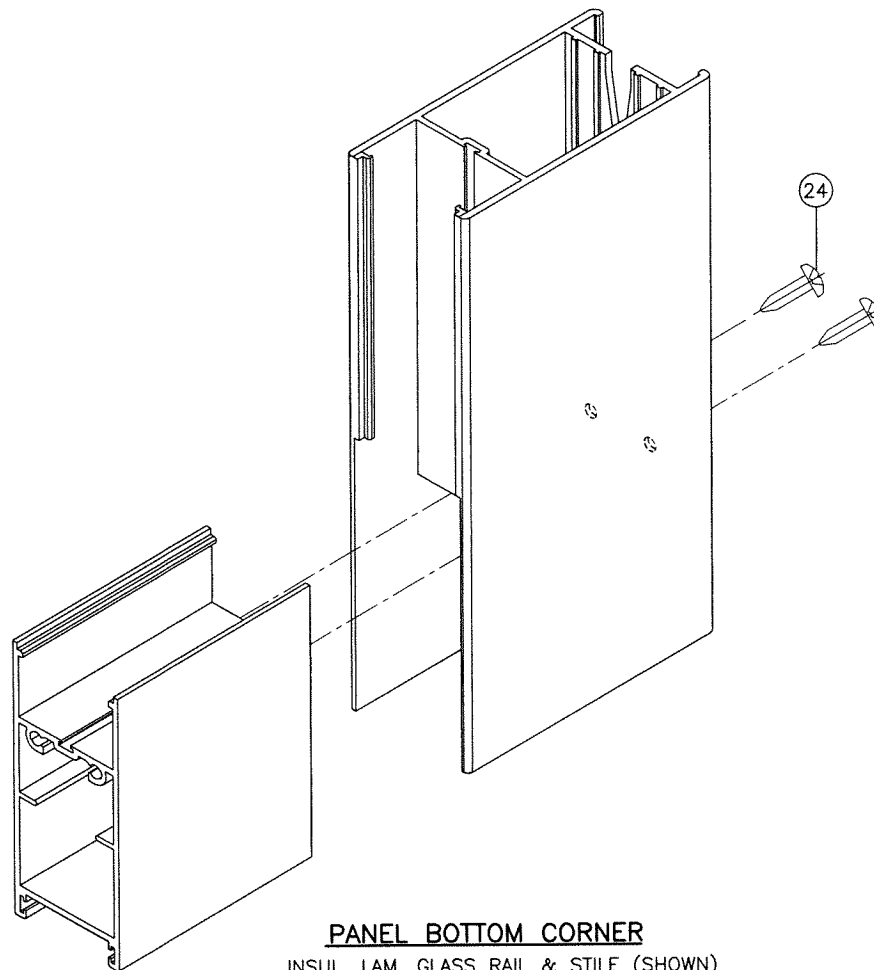
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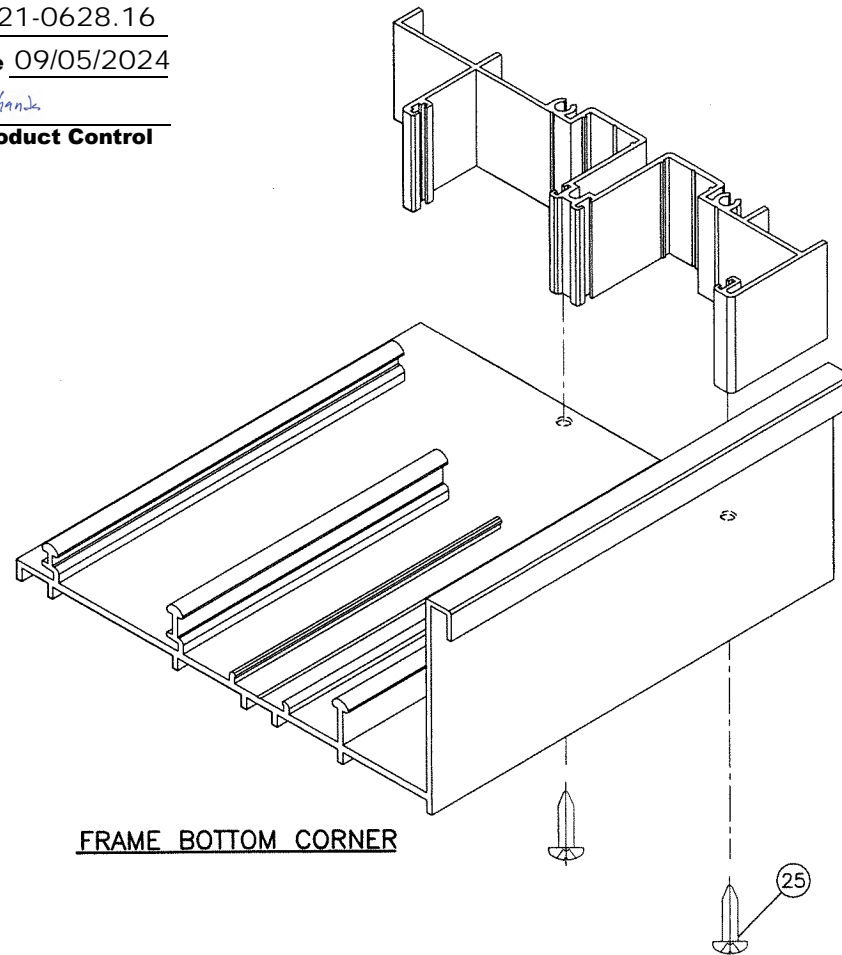
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INSUL. LAM. GLASS RAIL & STILE (SHOWN)
LAM. GLASS RAIL & STILE (SIMILAR)



FRAME TOP CORNER



PANEL BOTTOM CORNER
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LAM. GLASS RAIL & STILE (SIMILAR)

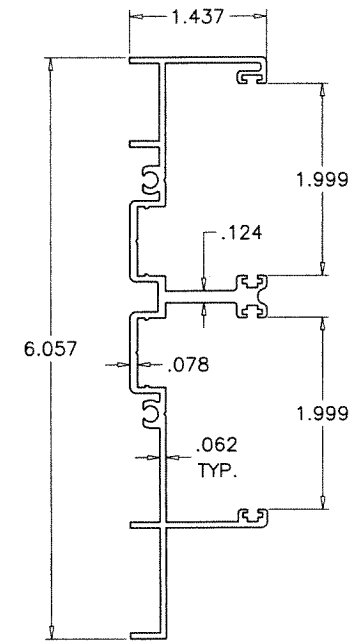


FRAME BOTTOM CORNER

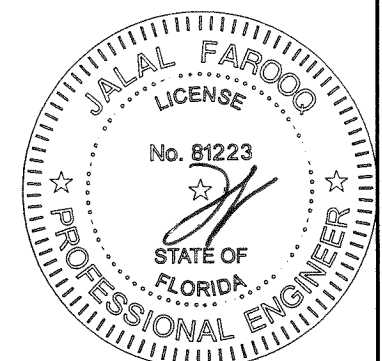
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3A

ALT. FRAME JAMB



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