

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

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

PRODUCT CONTROL SECTION

www.miamidade.gov/economy

**MIAMI-DADE COUNTY** 

# NOTICE OF ACCEPTANCE (NOA)

ES Windows, LLC 3550 NW 49<sup>th</sup> Street Miami, FL 33142

#### SCOPE:

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

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

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

# **DESCRIPTION:** Series "EL400-10" Aluminum Sliding Glass Door - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **20-12D** Rev C, titled "ES-EL400-10" Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, prepared by Al-Farooq Corporation dated 09/11/20 and last revised on AUG 16, 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: Large and Small Missile Impact Resistant Limitations:

- 1. See Elevations in sheets 1, 2, 3, 4 and anchors requirements. See Header anchor capacity charts in sheet 6 and Glass capacity VS size in sheet 5. Overall Lower Design Pressure (DP) controls for entire assembly.
- 2. See sheets 7 thru 13 for various configurations, tracks, pockets, non-pockets and allowable frame area.
- 3. See Water Rating qualified Sill Riser and alternate Sill Riser in sheet 22.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla**, **Columbia**, **S.A.**, series, and the following statement: "Miami-Dade County Product Control Approved", unless otherwise 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 # **20-0427.11** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

Ishaq 1. Chands

NOA No. 21-0728.01 Expiration Date: July 20, 2022 Approval Date: October 28, 2021

Page 1

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approval.

# A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. W16-73, titled "ES-EL400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, dated 11/28/16, with revision A dated 07/12/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

#### B. TESTS

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

along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-009**, dated 06/15/17, signed and sealed by Constantin Bortes, P.E. with Letter of Clarification issued on 07/13/17, signed and sealed by Constantin Bortes, P.E.

# C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC-5<sup>th</sup> Edition (2014) and FBC-6<sup>th</sup> Edition (2017), dated 06/20/17 and revised on 07/13/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Glazing complies with **ASTM E1300-09**.
- 3. Analysis recommendation letter prepared by Al-Farooq Corporation dated AUG 03, 2020 for #10 screw boss for Extrusion parts # ES-EL-400-.001, -.002 and -.005, 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. 16-1117.01 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers", expiring on 07/08/19.
- 2. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their "Sentry Glass® (Clear and White) Glass Interlayer", expiring on 07/04/18.
- 3. Notice of Acceptance No. 15-1201.11 issued to Eastman Chemical Co. (MA) for their "Saflex Clear and Color Glass Interlayers", expiring on 05/21/21.
- 4. Notice of Acceptance No. 14-0423.15 issued to Eastman Chemical Co. (MA) for their "Saflex CP Saflex and Saflex HP Composite Glass Interlayers with PET Core", expiring on 11/11/18.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0728.01
Expiration Date: July 20, 2022
Approval Date: October 28, 2021

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC-5<sup>th</sup> Edition (2014) and FBC-6<sup>th</sup> Edition (2017) and No financial interest, dated 07/12/17, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Distributor Agreement signed by Carlos Garcia and by Evelyn Daes.
- 3. Laboratory compliance statement for Test Report No. **BT-ESW-17-009**, issued by Blackwater Testing, Inc., dated 06/15/17, signed and sealed by Dennis Duffy, CEO.
- 4. Proposal No. **16-1478** issued by the Product Control Section, dated 11/17/16, signed by Ishaq Chanda, P.E.
- 2. Evidence submitted under previous approval.

#### A. DRAWINGS

1. Drawing No. **20-12D** Rev **A** (former **W16-73** Rev **A**), titled "ES-EL400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, prepared by Al-Farooq Corporation dated 09/11/20, signed and sealed by Jalal Farooq, P.E.

#### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Forced Entry Test, per FBC, and TAS 202-94
  - 6) Large Missile Impact Test per FBC, TAS 201-94
  - 7) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 8) ANSI-Z97.1

along with marked-up drawings and installation diagram of aluminum sliding glass doors, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-19007**, dated 12/09/19, signed and sealed by Constantin Bortes, P.E.

# C CALCULATIONS

- Anchor verification calculations and structural analysis dated 09/11/20, complying with **FBC-7**<sup>th</sup> **Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- 2. Glazing complies with **ASTM E1300-09** and **-016**.

#### D. **OUALITY ASSURANCE**

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

#### E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 19-0305.02 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers", expiring on 07/08/24.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0728.01
Expiration Date: July 20, 2022

Approval Date: October 28, 2021

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# E. MATERIAL CERTIFICATIONS

- 2. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers", expiring on 07/04/23.
- 3. Notice of Acceptance No. **15-1201.11** issued to **Eastman Chemical Co. (MA)** for their "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/21.
- 4. Notice of Acceptance No. 18-0301.06 issued to Eastman Chemical Co. (MA) for their "Saflex CP Saflex and Saflex HP Composite Glass Interlayers with PET Core", expiring on 11/11/23.

#### F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC-7**<sup>th</sup> **Edition (2020)** and No financial interest, dated 09/11/20, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- 2. Test Lab Compliance statement, as part of test report.

# G. OTHER

- 1. This NOA revises NOA # 16-0617.02 and updates to FBC 2020 (7<sup>th</sup> Edition) expiring 07/20/22.
- 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.
- 3. RER Test proposals #19-1155 dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Ishaq I. Chands

# ES Windows, LLC

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New Evidence submitted.

#### A. DRAWINGS

1. Drawing No. **20-12D** Rev C, titled "ES-EL400-10" Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, prepared by Al-Farooq Corporation dated 09/11/20 and last revised on AUG 16, 2021, signed and sealed by Jalal Farooq, P.E.

#### B. TESTS

1. None.

#### **C** CALCULATIONS

- 1 Comparative structural section properties sill riser analysis, dated 07/07/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- 2. Glazing complies with **ASTM E1300-09** and **-016**.

# D. QUALITY ASSURANCE

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

#### E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** (former Solutia, Inc.) for the "Saflex: Saflex Clear & Color glass interlayer", expiring on 05/21/26.

#### F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC-7**<sup>th</sup> **Edition (2020)** and No financial interest, dated 07/07/21, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- 2. Test Lab Compliance statement, as part of test report.

#### G. OTHER

- 1. This NOA revises NOA No. 20-0427.11 and updates to FBC 2020 (7<sup>th</sup> Edition) expiring 07/20/22.
- 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.
- 3. Comparative Sectional properties analysis of sill Risers.

Ishaq I. Chands

Expiration Date 07/20/2022

By Shang I. Chank
Miami-Dade Product Control

DAYLITE OPENING WIDTH: PANEL WIDTH - 5.688"

DAYLITE OPENING HEIGHT: PANEL HEIGHT - 5.813"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.250"

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

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1. SAFEGUARD REQUIREMENTS TO BE VERIFIED.

# SERIES ES-EL400-10 ALUMINUM SLIDING GLASS DOOR

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.

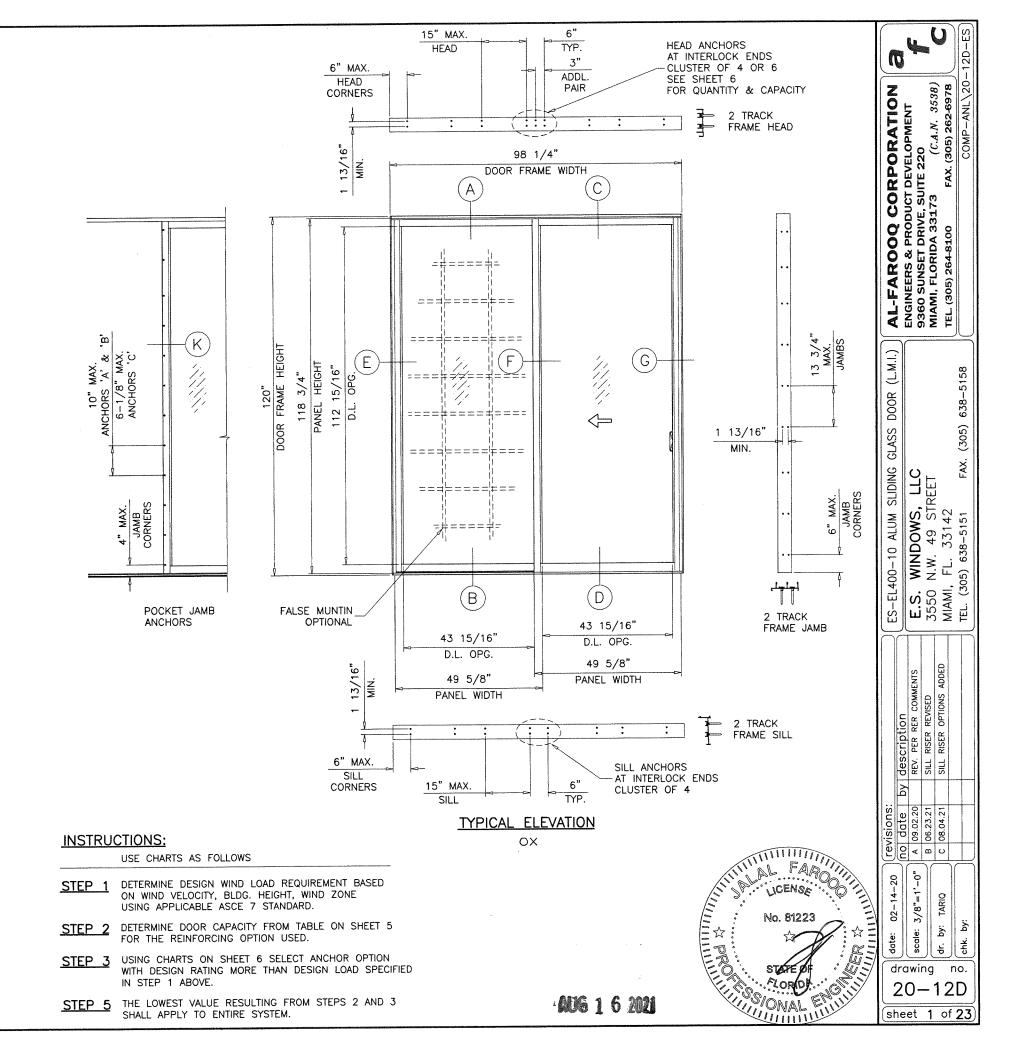
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

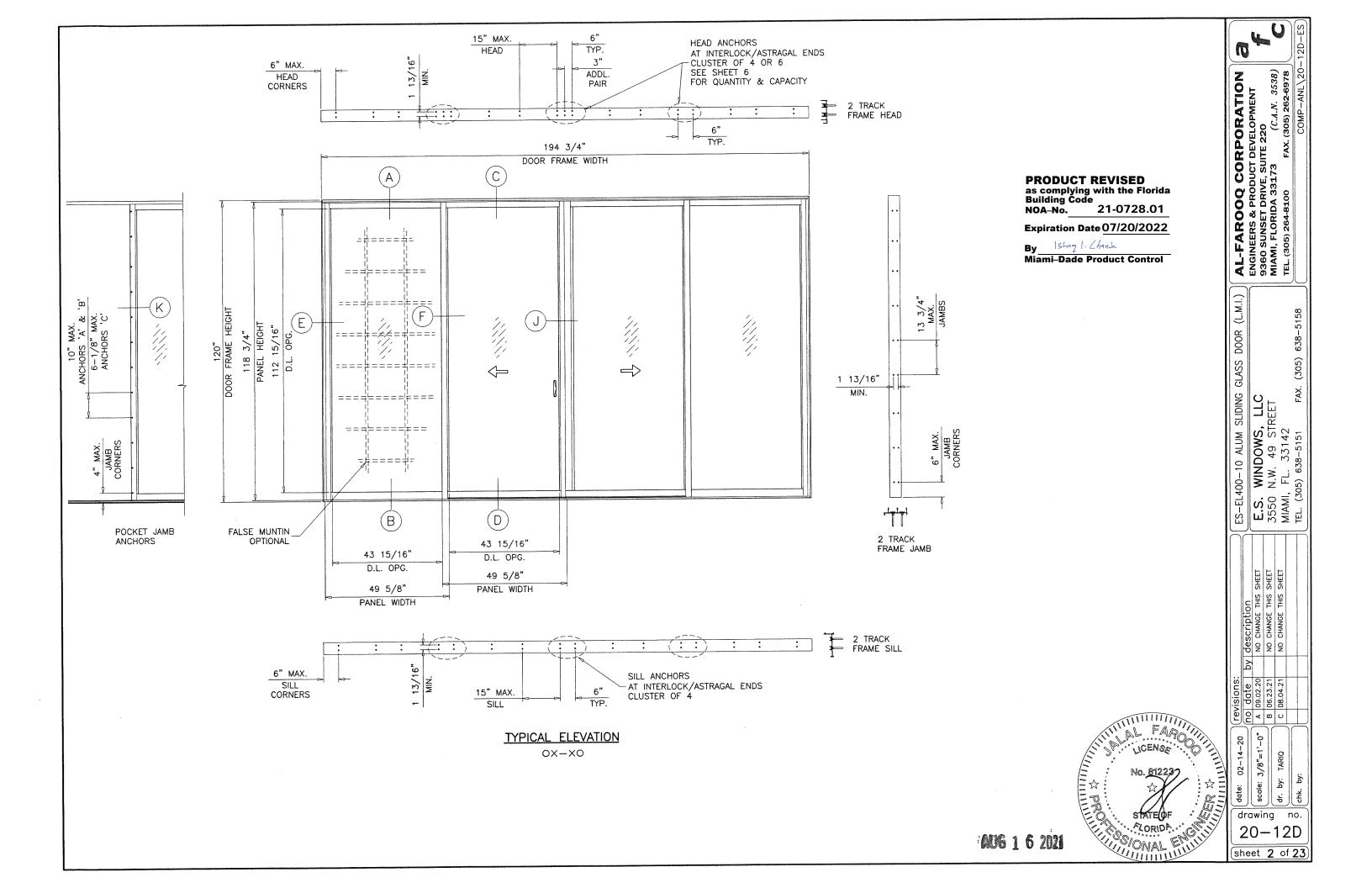
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

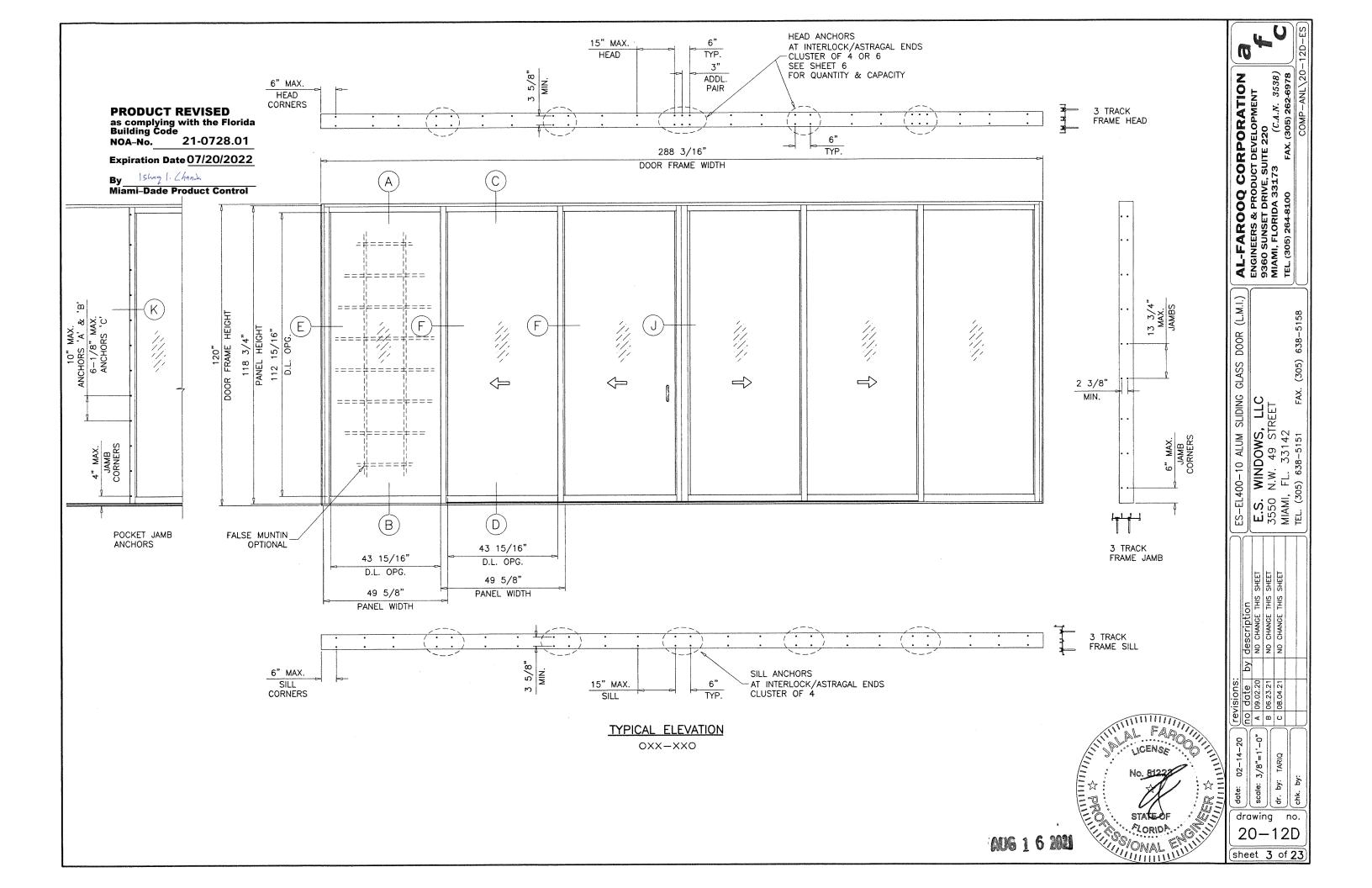
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

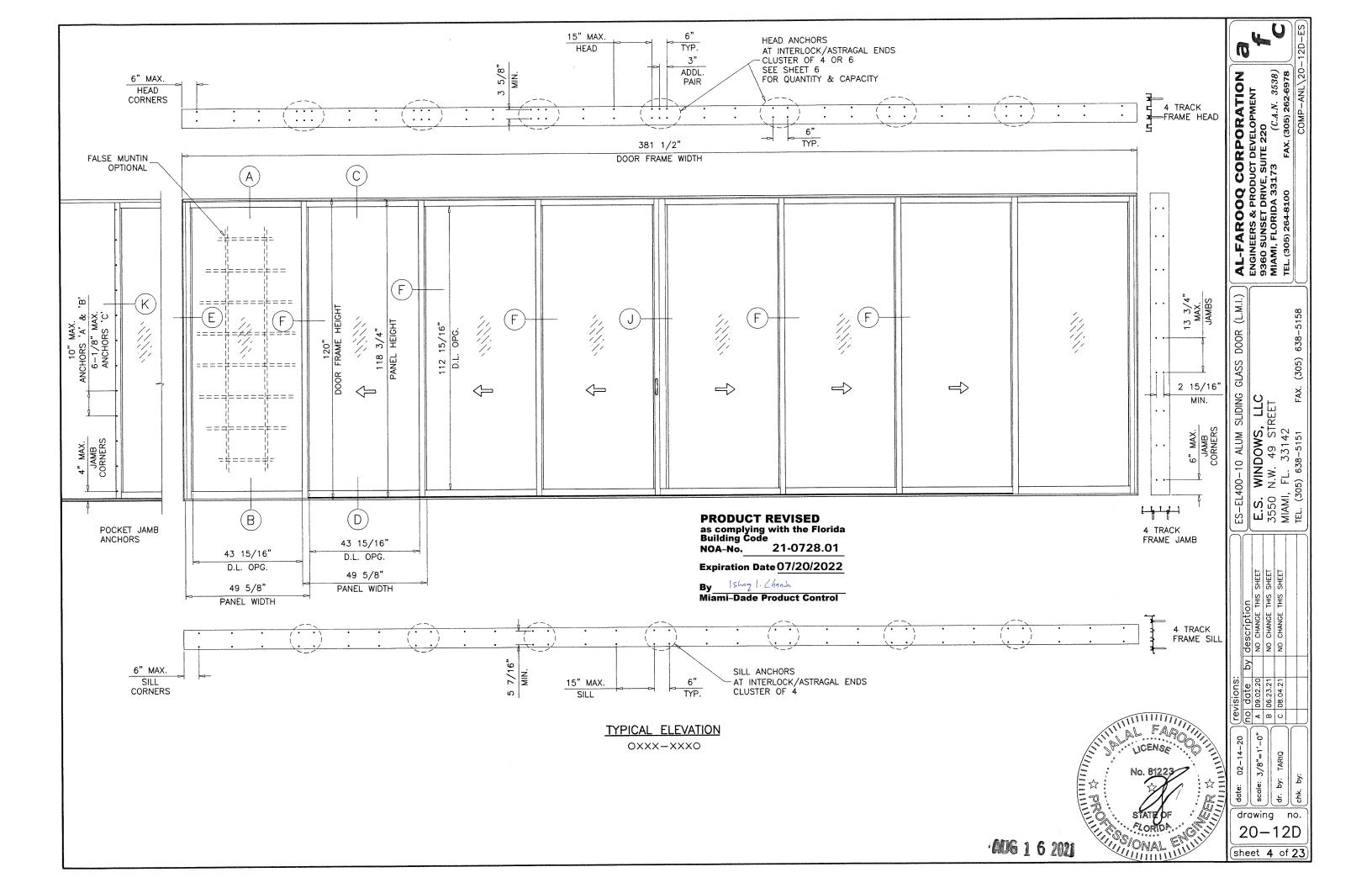
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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









| DESIG                 | N LOAD C   | APACITY                | - PSF   |  |
|-----------------------|--|------------------------|---------|--|
| AVERAGE               | DOOR FRAME   | GLASS TYPES 'A' & 'A1' |         |  |
| PANEL WIDTH<br>INCHES | HEIGHT<br>INCHES   | EXT.(+)                | INT.(-) |  |
| 30                    | INCHES   | 65.0                   | 65.0    |  |
| 36                    |  | 65.0                   | 65.0    |  |
| 42                    |  | 65.0                   | 65.0    |  |
| 48                    | 82   | 65.0                   | 65.0    |  |
| 54                    |  | 65.0                   | 65.0    |  |
| 60                    |  | 65.0                   | 65.0    |  |
| 30                    |  | 65.0                   | 65.0    |  |
| 36                    |  | 65.0                   | 65.0    |  |
| 42                    |  | 65.0                   | 65.0    |  |
| 48                    | 84   | 65.0                   | 65.0    |  |
| 54                    |  | 65.0                   | 65.0    |  |
| 60                    |  | 65.0                   | 65.0    |  |
| 30                    |  | 65.0                   | 65.0    |  |
| 36                    |  | 65.0                   | 65.0    |  |
| 42                    |  | 65.0                   | 65.0    |  |
| 42<br>48              | 90   | 65.0                   | 65.0    |  |
| 54                    |  | 65.0                   | 65.0    |  |
| 60                    |  | 65.0                   | 65.0    |  |
| 30                    |  | 65.0                   | 65.0    |  |
| 36                    |  | 65.0                   | 65.0    |  |
| 42                    |  | 65.0                   | 65.0    |  |
| 48                    | 96   | 65.0                   | 65.0    |  |
| 54                    |  | 65.0                   | 65.0    |  |
| 60                    |  | 65.0                   | 65.0    |  |
| 30                    |  | 65.0                   | 65.0    |  |
| 36                    | and the same of th | 65.0                   | 65.0    |  |
| 42                    | 102  | 65.0                   | 65.0    |  |
| 48                    | 102  | 65.0                   | 65.0    |  |
| 54                    |  | 57.8                   | 57.8    |  |
| 30                    |  | 65.0                   | 65.0    |  |
| 36                    |  | 65.0                   | 65.0    |  |
| 42                    | 108  | 65.0                   | 65.0    |  |
| 48                    |  | 65.0                   | 65.0    |  |
| 30                    |  | 65.0                   | 65.0    |  |
| 36                    | 114  | 65.0                   | 65.0    |  |
| 42                    |  | 65.0                   | 65.0    |  |
| 48                    |  | 65.0                   | 65.0    |  |
| 30                    |  | 65.0                   | 65.0    |  |
| 36                    | 120  | 65.0                   | 65.0    |  |
| 42                    |  | 65.0                   | 65.0    |  |
| 48                    |  | 65.0                   | 65.0    |  |

Expiration Date 07/20/2022

By | Shang | . Chanke
Miami-Dade Product Control

James SentryGlas

James SentryGlas

By 'Kuraray America, Inc.'

OR

OR

OR

James SentryGlas

By 'Kuraray America, Inc.'

OR

James SentryGlas

James Sentry

GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS

3/16" TEMP. GLASS

3/8" AIR SPACE

3/16" HEAT STREN'D. GLASS

.090" Interlayer
SentryGlas
By 'Kuraray America, Inc.'
OR
.075" Interlayer
Saflex CP With PET Core
By 'Eastman Chemical Co.'

3/16" HEAT STREN'D. GLASS

GLASS TYPE 'A1'
1" OVERALL INSUL. LAM. GLASS

# GLAZING OPTIONS

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

AVERAGE PANEL WIDTH =  $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$ 

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

NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219 SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

SEE CHART ON SHEET 6 FOR HEAD ANCHOR CAPACITY.

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



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33.173 (C.A.N. 3538)
TEL. (305) 264.8100 FAX. (305) 262-6978

COMP-ANL\20-1

ES-EL400-10 ALUM SLIDING GLASS DOOR (L E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-515

|                       |                  |                                    |                                    | HEAD ANCI                          | IOR LOAD CA                        | APACITY - P                        | SF                                 |                                    |                                    |                                    |  |
|-----------------------|------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|
|                       |                  | ANCHOR TYPES 'A' & 'B'             |                                    |                                    |                                    |                                    |                                    | ANCHOR TYPE 'C'                    |                                    |                                    |  |
|                       |                  | 1/4" MA                            | X. SHIM                            | 3/8" MA                            | X. SHIM                            | 1/2" MA                            | X. SHIM                            | 1/4" MAX. SHIM                     | 3/8" M                             | AX. SHIM                           |  |
| AVERAGE               | DOOR FRAME       | 4 ANCHORS<br>AT MTG.<br>STILE ENDS | 6 ANCHORS<br>AT MTG.<br>STILE ENDS | 4 ANCHORS<br>AT MTG.<br>STILE ENDS | 6 ANCHORS<br>AT MTG.<br>STILE ENDS | 4 ANCHORS<br>AT MTG.<br>STILE ENDS | 6 ANCHORS<br>AT MTG.<br>STILE ENDS | 4 ANCHORS<br>AT MTG.<br>STILE ENDS | 4 ANCHORS<br>AT MTG.<br>STILE ENDS | 6 ANCHORS<br>AT MTG.<br>STILE ENDS |  |
| PANEL WIDTH<br>INCHES | HEIGHT<br>INCHES | EXT. (+)<br>INT. (-)               | EXT. (+)<br>INT. (-)               | EXT. (+)<br>iNT. (-)               | EXT. (+)<br>INT. (–)               | EXT. (+)<br>INT. (–)               | EXT. (+)<br>INT. (-)               | EXT. (+)<br>INT. (-)               | EXT. (+)<br>INT. (-)               | EXT. (+)<br>INT. (-)               |  |
| 30                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 36                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 42                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 48                    | 82               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 62.6                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 54                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 55.6                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 60                    |                  | 65.0                               | 65.0                               | 64.4                               | 65.0                               | 50.1                               | 65.0                               | 65.0                               | 64.7                               | 65.0                               |  |
| 30                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 36                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 42                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 48                    | 84               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 61.1                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 54                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 54.3                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 60                    |                  | 65.0                               | 65.0                               | 62.9                               | 65.0                               | 48.9                               | 65.0                               | 65.0                               | 63.1                               | 65.0                               |  |
| 30                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 36                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 42                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 48                    | 90               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 57.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 54                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 50.7                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 60                    |                  | 65.0                               | 65.0                               | 58.7                               | 65.0                               | 45.6                               | 60.8                               | 65.0                               | 58.9                               | 65.0                               |  |
| 30                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 36                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 42                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 61.1                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 48                    | 96               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 53.5                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 54                    |                  | 65.0                               | 65.0                               | 61.1                               | 65.0                               | 47.5                               | 63.4                               | 65.0                               | 61.4                               | 65.0                               |  |
| 60                    |                  | 62.1                               | 65.0                               | 55.0                               | 65.0                               | 42.8                               | 57.0                               | 65.0                               | 55.2                               | 65.0                               |  |
| 30                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 36                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 42                    | 102              | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 57.5                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 48                    |                  | 65.0                               | 65.0                               | 64.7                               | 65.0                               | 50.3                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 54                    |                  | 64.9                               | 65.0                               | 57.5                               | 65.0                               | 44.7                               | 59.6                               | 65.0                               | 57.8                               | 65.0                               |  |
| 30                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 36                    | 400              | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 63.4                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 42                    | 108              | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 54.3                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 48                    |                  | 65.0                               | 65.0                               | 61.1                               | 65.0                               | 47.5                               | 63.4                               | 65.0                               | 61.4                               | 65.0                               |  |
| 30                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 36                    | 44.1             | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 60.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 42                    | 114              | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 51.5                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 48                    |                  | 65.0                               | 65.0                               | 57.9                               | 65.0                               | 45.0                               | 60.0                               | 65.0                               | 58.1                               | 65.0                               |  |
| 30                    |                  | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 36                    | 400              | 65.0                               | 65.0                               | 65.0                               | 65.0                               | 57.0                               | 65.0                               | 65.0                               | 65.0                               | 65.0                               |  |
| 42                    | 120              | 65.0                               | 65.0                               | 62.9                               | 65.0                               | 48.9                               | 65.0                               | 65.0                               | 63.1                               | 65.0                               |  |
| 48                    |                  | 62.1                               | 65.0                               | 55.0                               | 65.0                               | 42.8                               | 57.0                               | 65.0                               | 55.2                               | 65.0                               |  |

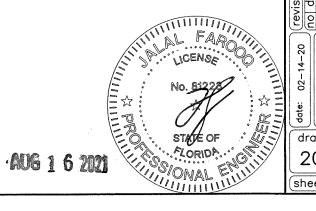
Expiration Date <u>07/20/2022</u>

By Shag I. Chank
Miami-Dade Product Control

SEE CHART ON SHEET 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.

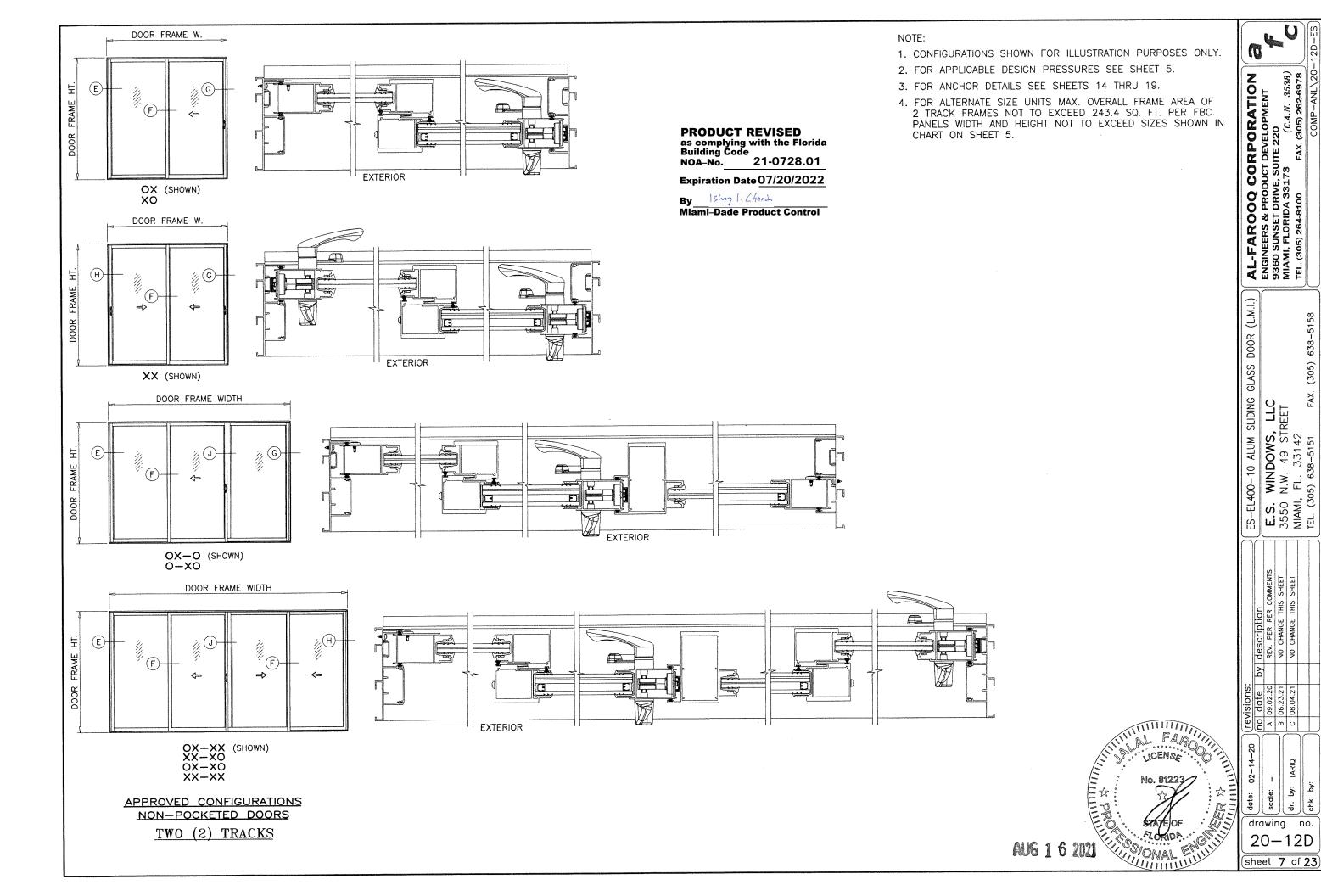
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

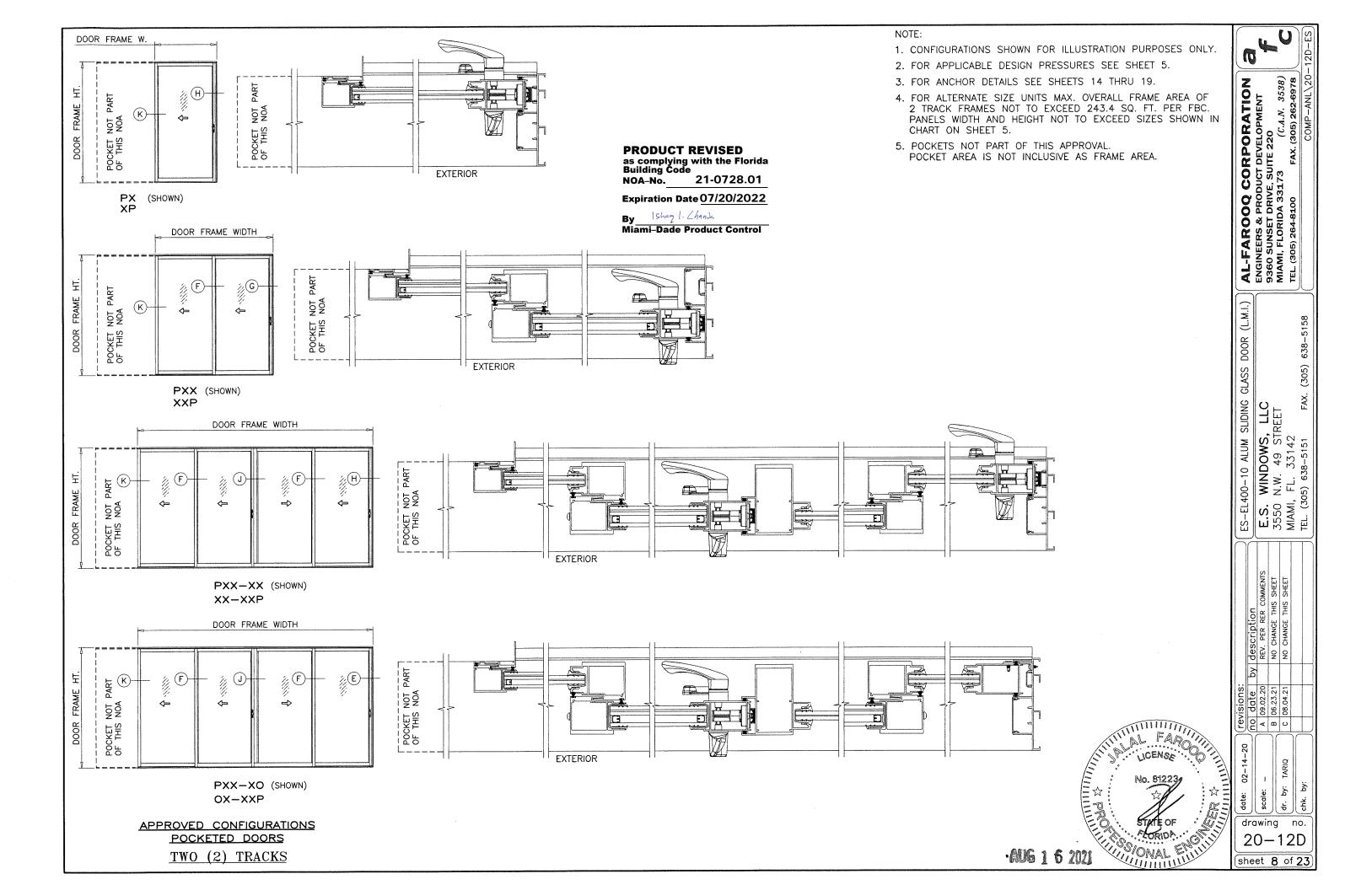


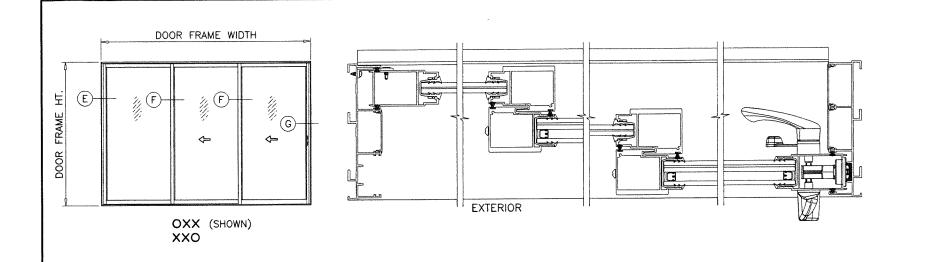
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158 drawing 20-12D sheet 6 of **23** 

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







#### NOTE:

- 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
- 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
- 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
- 4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 3 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

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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

(L.M.I.)

ES-EL400-10 ALUM SLIDING GLASS DOOR (L. 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5156

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revisions:
no date
A 09.02.20
B 06.23.21
C 08.04.21

drawing no.

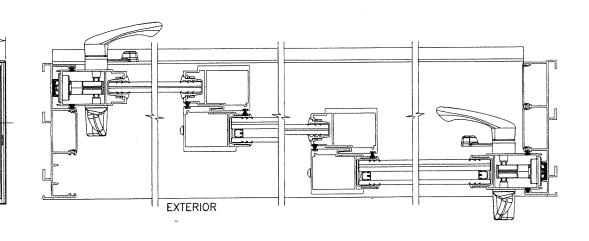
sheet 9 of 23

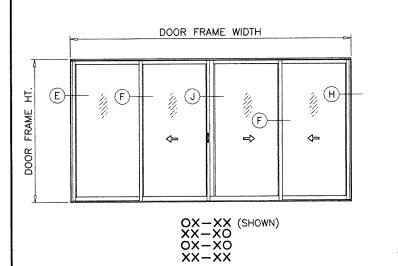
20-12D

PRODUCT REVISED
as complying with the Florida
Building Code 21-0728.01 NOA-No.

Expiration Date 07/20/2022

By Ishay 1. Chank Miami-Dade Product Control





DOOR FRAME WIDTH

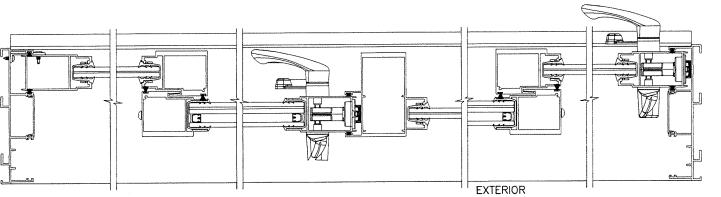
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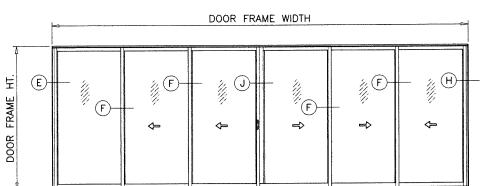
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DOOR FRAME



NON-POCKETED DOORS THREE (3) TRACKS

APPROVED CONFIGURATIONS



OXX-XXX (SHOWN) XXX-XXO OXX-XXO XXX-XXX

**PRODUCT REVISED** as complying with the Florida Building Code 21-0728.01

Expiration Date 07/20/2022

By Ishaq 1. Chank Miami-Dade Product Control NOTE:

**EXTERIOR** 

- 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
- 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
- 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
- 4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 3 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

AUG 1 6 2021

(C.A.N. 3538) FAX. (305) 262-6978

 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

 9360 SUNSET DRIVE, SUITE 220

 MIAMI, FLORIDA 33173
 (C.A.N. 3538)

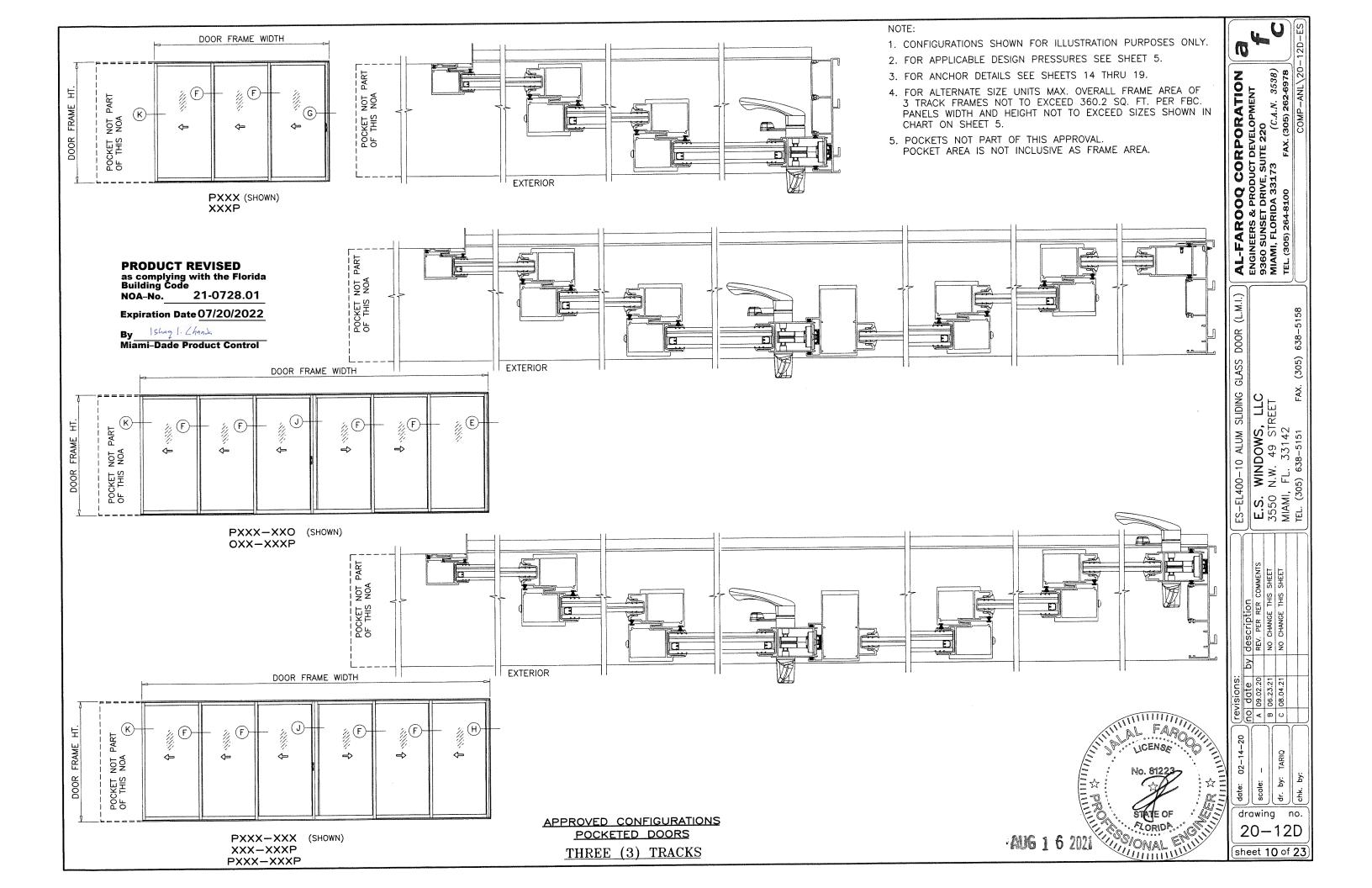
 TEL. (305) 264-8100
 FAX. (305) 262-6978

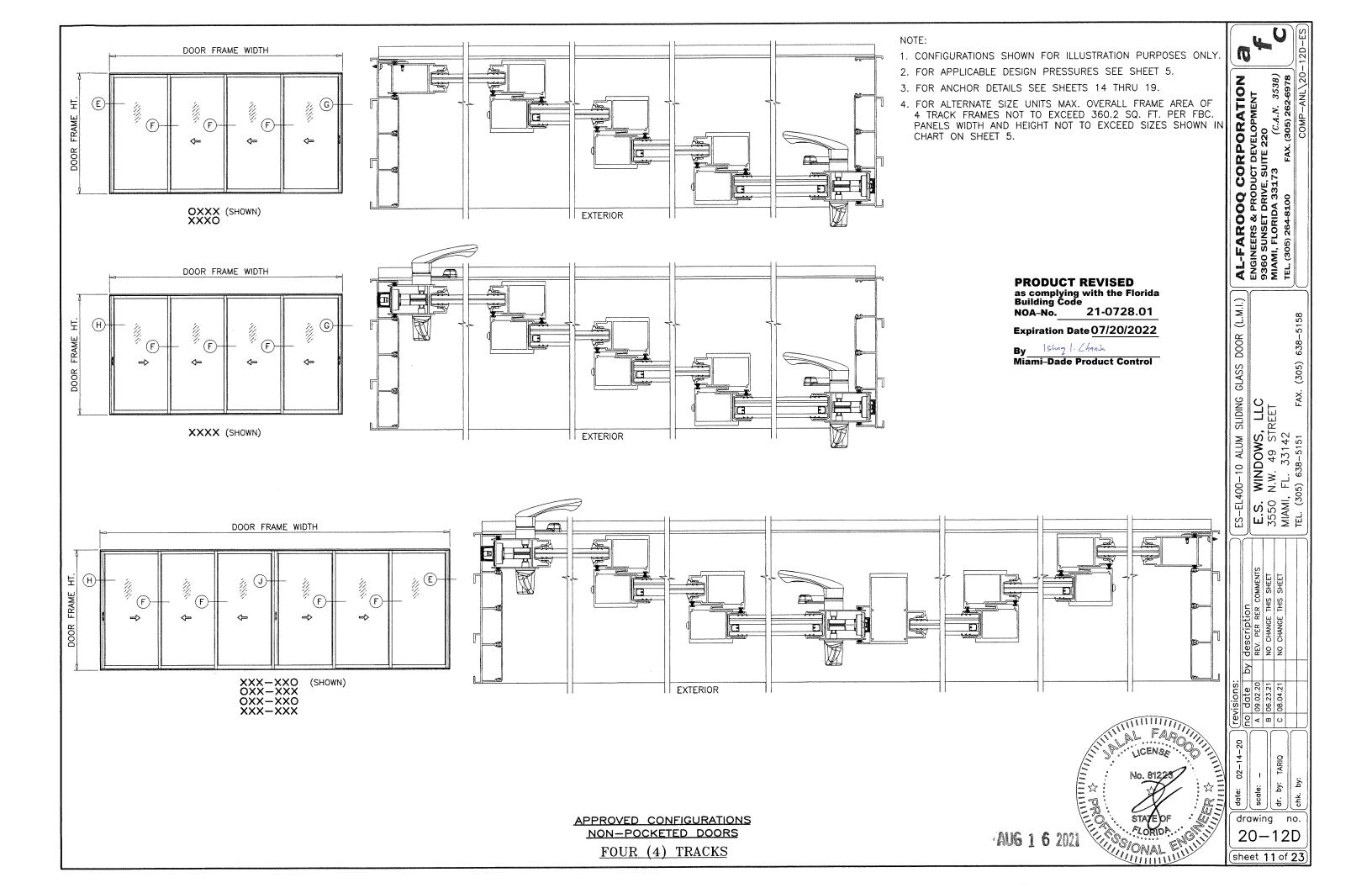
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638–5151 FAX.

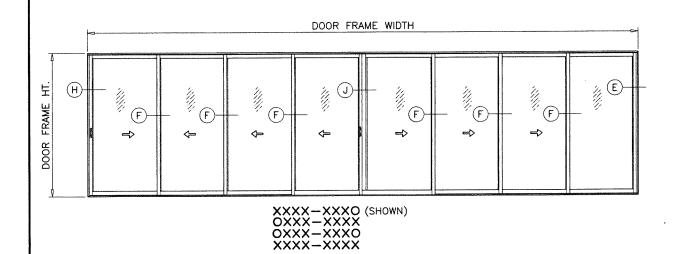
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

sheet 9.1of 23

APPROVED CONFIGURATIONS NON-POCKETED DOORS THREE (3) TRACKS







- 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
- 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
- 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
- 4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 4 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

Expiration Date 07/20/2022

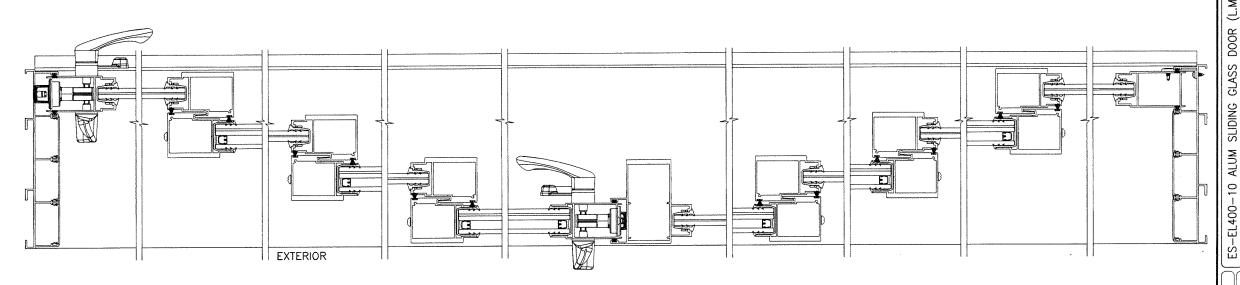
Ishaq 1. Chands Miami-Dade Product Control AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)

TEL. (305) 264-8100 FAX. (305) 262-6978

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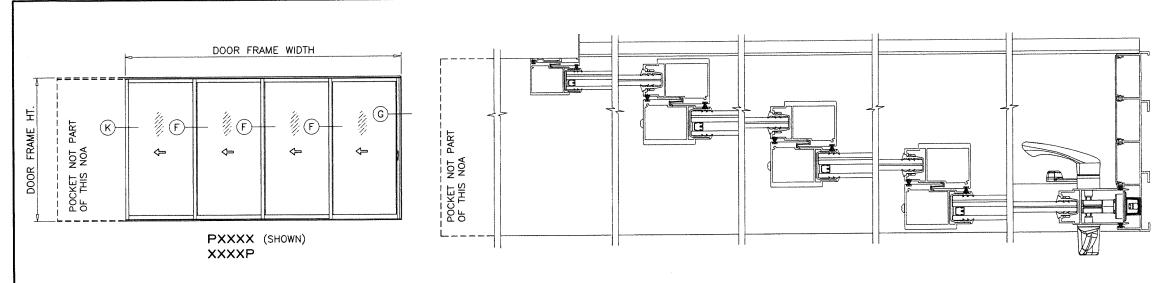
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638–5151 FAX.



revisions:
no date
A 09.02.20
B 06.23.21
C 08.04.21 20-12D sheet 11.1of23

AUG 1 6 2021

APPROVED CONFIGURATIONS NON-POCKETED DOORS FOUR (4) TRACKS



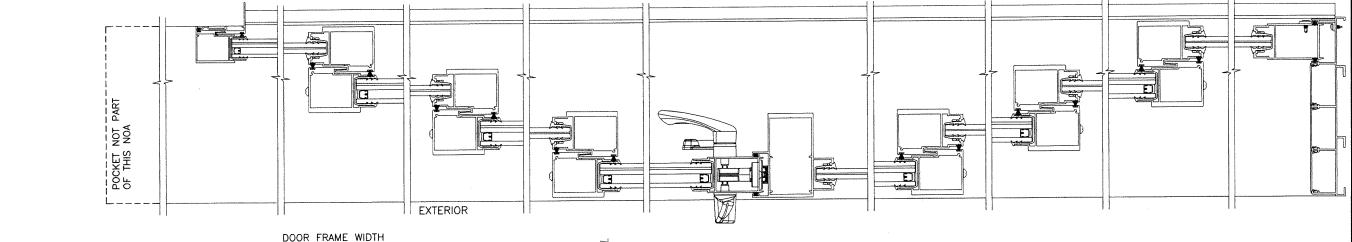
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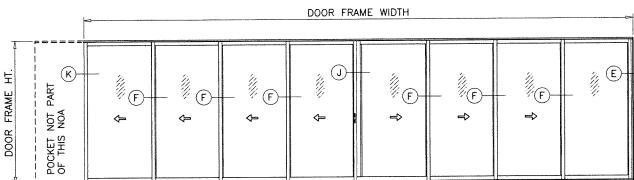
By Ishay 1. Chands

Miami-Dade Product Control

#### NOTE:

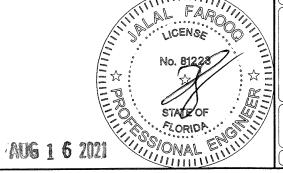
- 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
- 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
- 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
- 4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 4 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.
- 5. POCKETS NOT PART OF THIS APPROVAL. POCKET AREA IS NOT INCLUSIVE AS FRAME AREA.





PXXXX-XXXO (SHOWN) OXXX-XXXXP

> APPROVED CONFIGURATIONS POCKETED DOORS FOUR (4) TRACKS



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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

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

. WINDOWS, LLC ) N.W. 49 STREET II, FL. 33142 305) 638–5151 FAX.

E.S. V 3550 MIAMI, TEL. (308

sheet 12 of 23

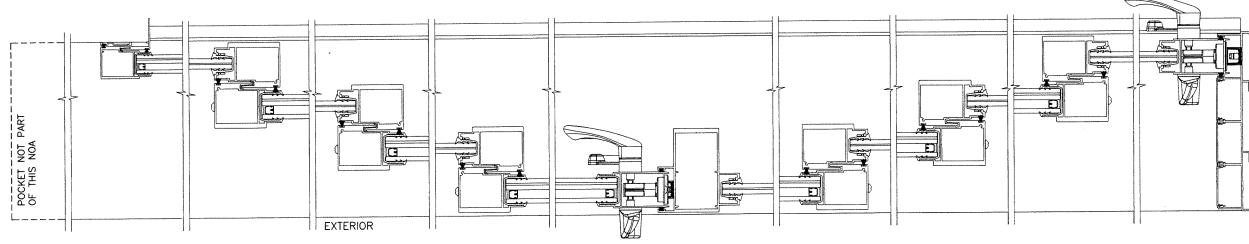
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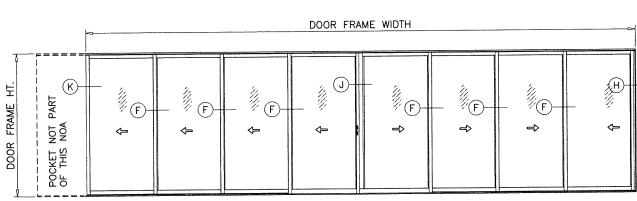
By Ishay 1. Chands

Miami-Dade Product Control

NOTE:

- 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
- 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
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- 4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 4 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.
- 5. POCKETS NOT PART OF THIS APPROVAL. POCKET AREA IS NOT INCLUSIVE AS FRAME AREA.





PXXXX-XXXX (SHOWN) XXXX-XXXXP PXXXX-XXXXP

APPROVED CONFIGURATIONS POCKETED DOORS FOUR (4) TRACKS

AUG 1 6 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

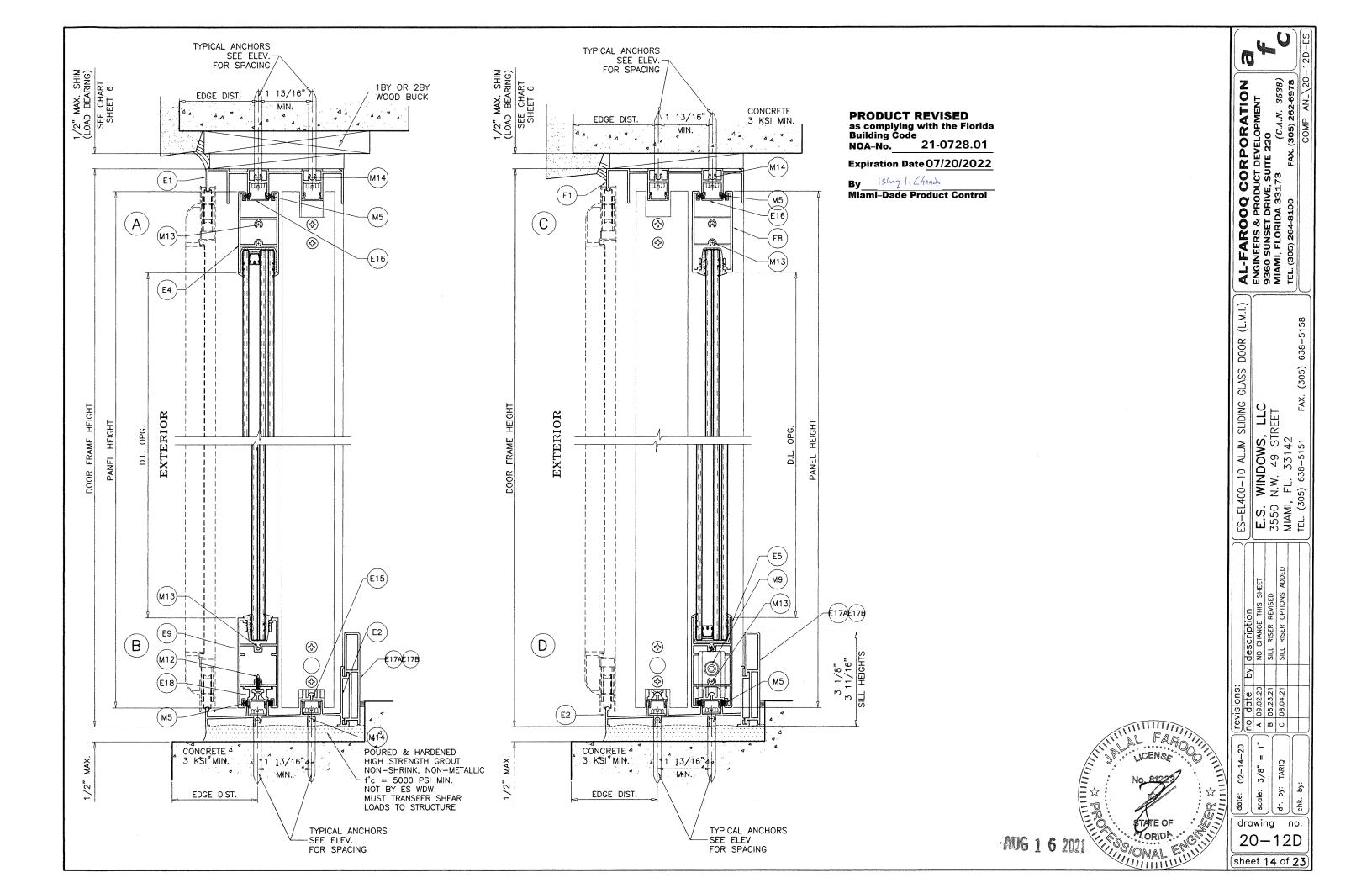
ES-EL400-10 ALUM SLIDING GLASS DG E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 63

by description
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A 09.02.20
B 06.23.21
C 08.04.21

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20-12D sheet **13** of **23** 



# TYPICAL ANCHORS: SEE ELEV. FOR SPACING

— AT HEAD

TYPE 'A'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO WOOD STRUCTURES 2" MIN. PENETRATION INTO WOOD THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE 1-3/4" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.

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

TYPE 'C'- 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS INTO METAL STRUCTURES (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

— AT JAMBS

TYPE 'A'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO WOOD STRUCTURES 2" MIN. PENETRATION INTO WOOD THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR FILLED BLOCK 1-3/4" MIN. EMBED INTO CONCRETE 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS

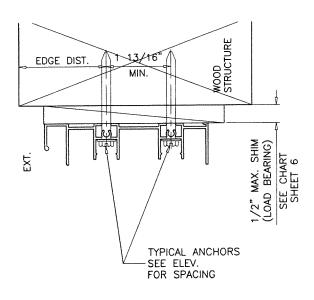
TYPE 'B'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS 2" MIN. EMBED INTO CONCRETE 2" MIN. EMBED INTO GROUT FILLED BLOCKS TYPE 'C'- 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS

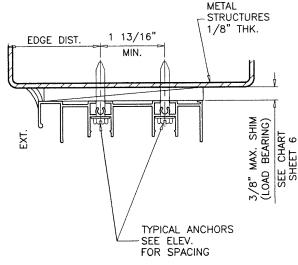
INTO METAL STRUCTURES (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#### ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN. (UNLESS SPECIFIED OTHERWISE) 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 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.





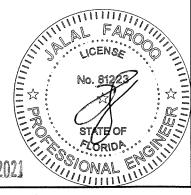
MIAMI-DADE COUNTY APPR'D MULLION SEE SEPARATE NOA TYPICAL ANCHORS SEE ELEV. FOR SPACING

**PRODUCT REVISED** as complying with the Florida Building Code NOA-No. 21-0728.01

Expiration Date 07/20/2022

Ishaq I. Chands Miami-Dade Product Control

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



CORPORATION

AL-FAROOQ ENGINEERS & PRO

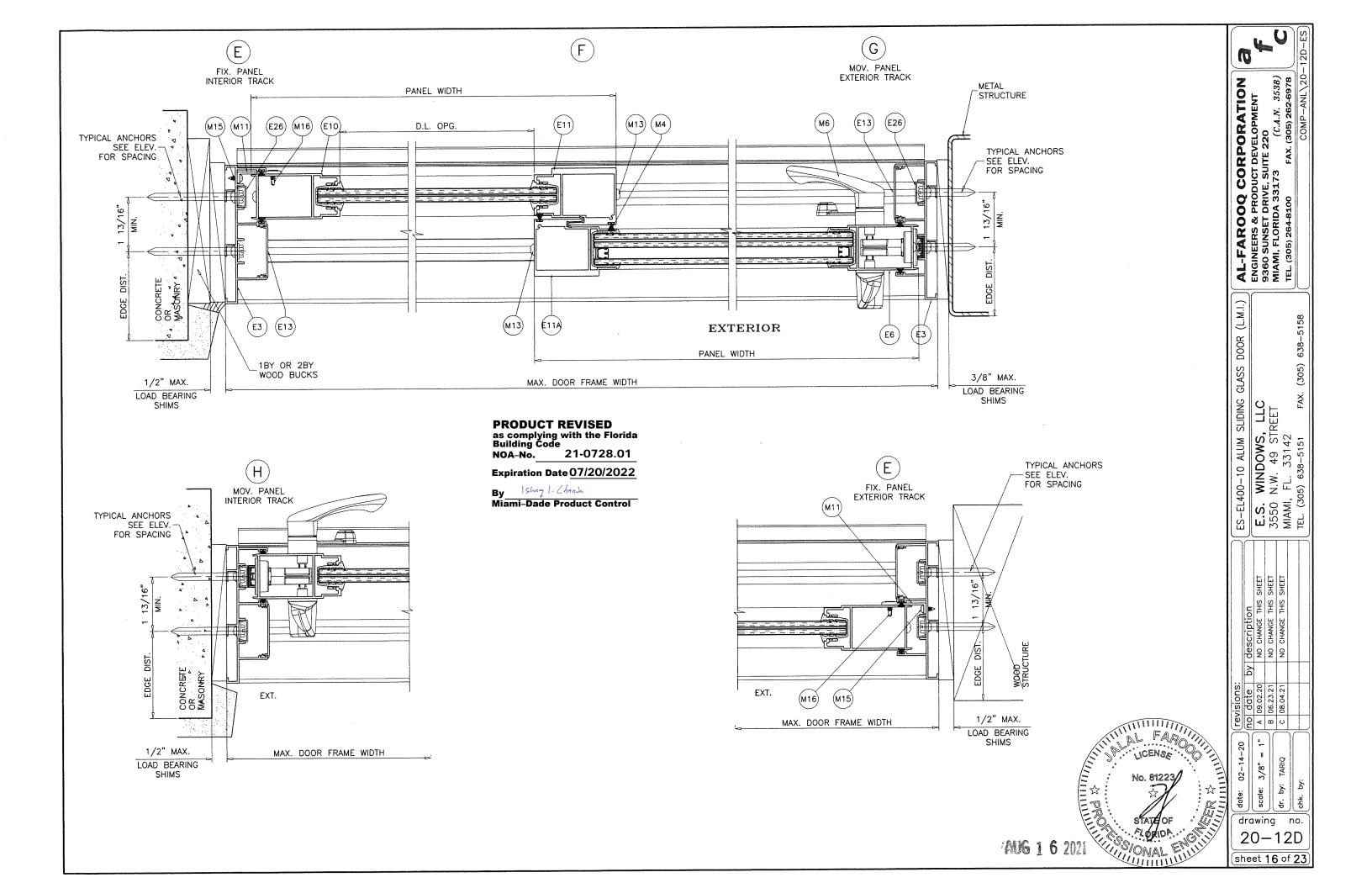
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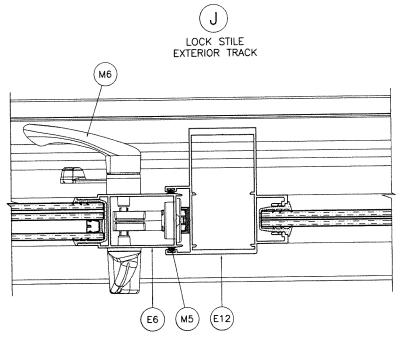
WINDOWS, LLC N.W. 49 STREET FL. 33142 (55) 638–5151 FAX

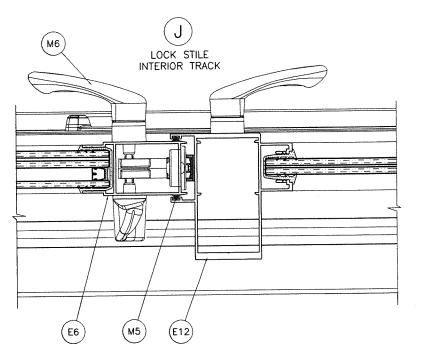
sheet 15 of 23

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AUG 1 6 2021



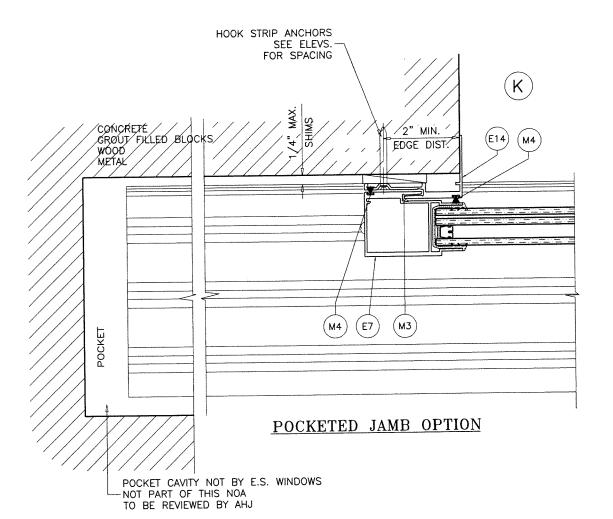




Expiration Date 07/20/2022

Ishaq I. Chands

Miami-Dade Product Control



# HOOK STRIP ANCHORS: SEE ELEV. FOR SPACING 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS 1-3/4" MIN. EMBED INTO CONCRETE 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS

#14 SMS (GRADE 2 CRS)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD

# #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO METAL STRUCTURES (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE ALUMINUM: 5/32" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

# TYPICAL EDGE DISTANCE

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



(C.A.N. 3538) FAX. (305) 262-6978

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

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A 09.02.20
B 06.23.21
C 08.04.21 No. 81225

No. 81225

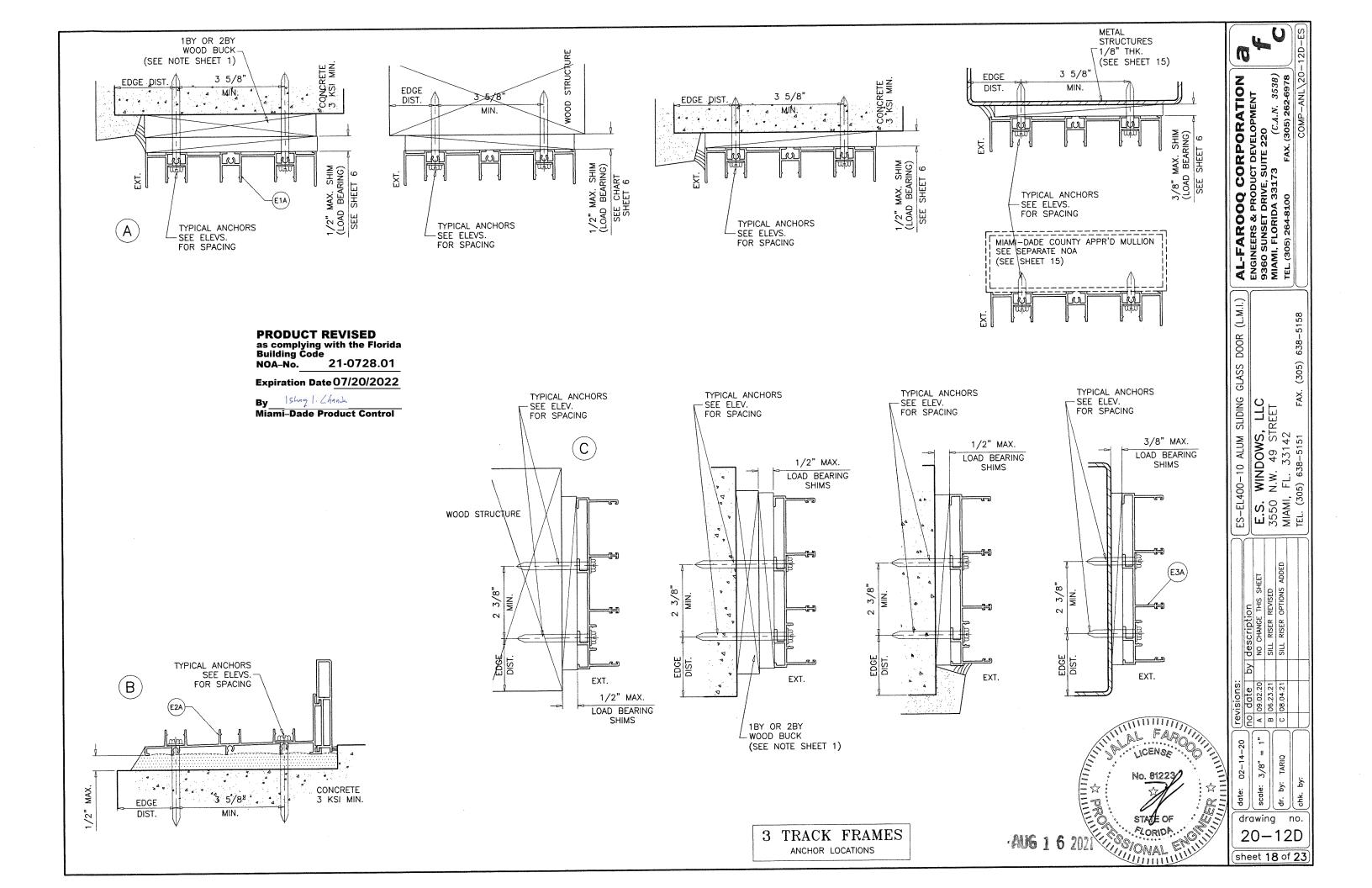
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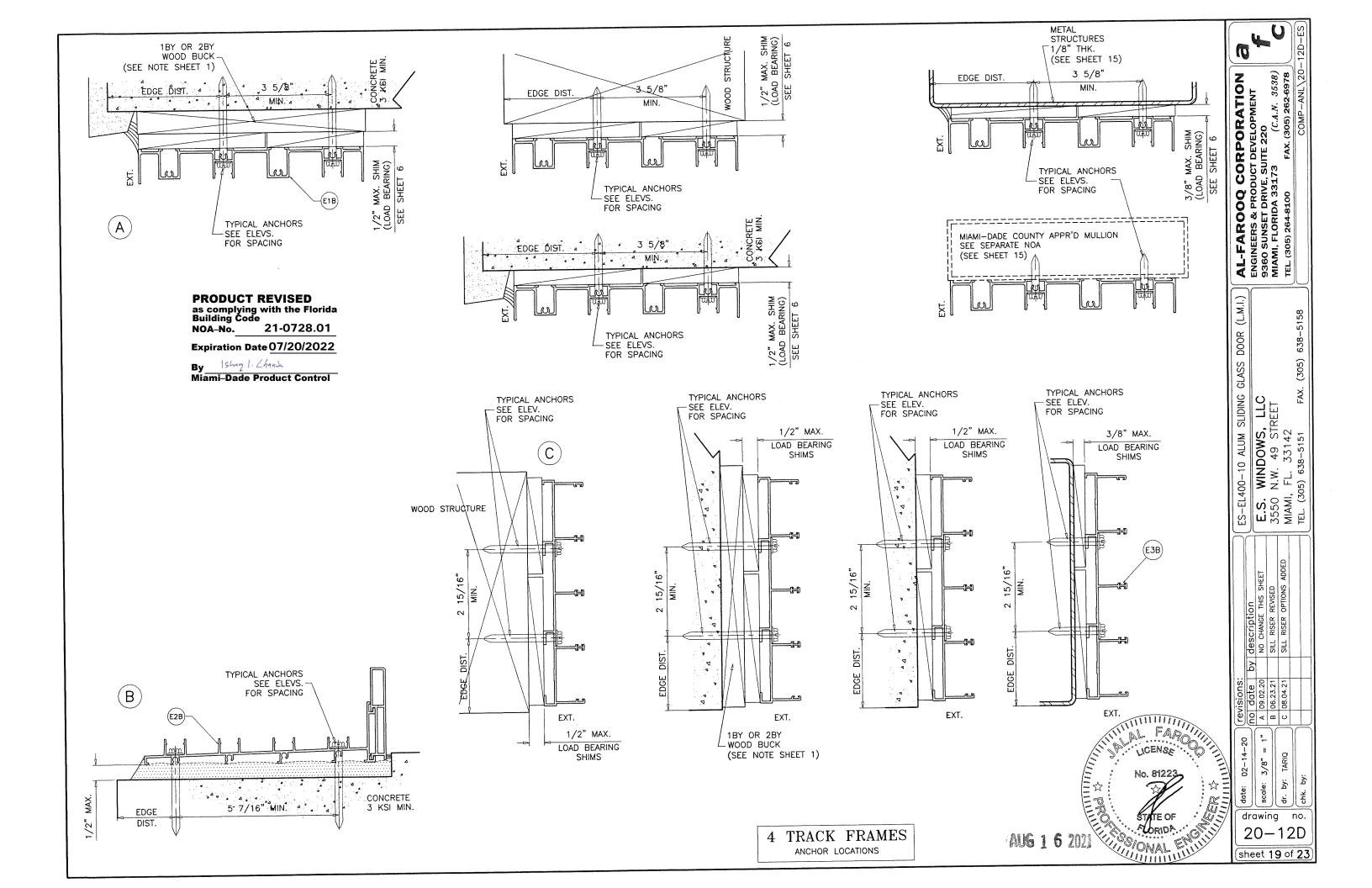
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sheet 17 of 23





| ITEM # | PART #          | REQD.    | DESCRIPTION                         | MATERIAL      | MANF./SUPPLIER/REMARKS |
|--------|-----------------|----------|-------------------------------------|---------------|------------------------|
| E1     | ES-EL400-001    | 1        | FRAME HEAD (2 TRACK)                | 6063-T6       | _                      |
| E1A    | ES-EL400-201    | AS REQD. | FRAME HEAD (3 TRACK)                | 6063-T6       | _                      |
| E1B    | ES-EL400-205    | AS REQD. | FRAME HEAD (4 TRACK)                | 6063-T6       | _                      |
| E2     | ES-EL400-002    | 1        | FRAME SILL (2 TRACK)                | 6063-T6       | _                      |
| E2A    | ES-EL400-202    | AS REQD. | FRAME SILL (3 TRACK)                | 6063-T6       | _                      |
| E2B    | ES-EL400-206    | AS REQD. | FRAME SILL (4 TRACK)                | 6063-T6       | _                      |
| E3     | ES-EL400-003    | 2        | FRAME JAMB (2 TRACK)                | 6063-T6       | _                      |
| E3A    | ES-EL400-203    | AS REQD. | FRAME JAMB (3 TRACK)                | 6063-T6       | _                      |
| E3B    | ES-EL400-207    | AS REQD. | FRAME JAMB (4 TRACK)                | 6063-T6       | _                      |
| E4     | ES-EL400-004    | 1/ PANEL | TOP RAIL (INSUL. LAM. GLASS)        | 6063-T6       |                        |
| E5     | ES-EL400-005    | 1/ PANEL | BOTTOM RAIL (INSUL. LAM. GLASS)     | 6063-T6       |                        |
| E6     | ES-EL400-006    | AS REQD. | JAMB STILE (INSUL. LAM. GLASS)      | 6063-T6       | _                      |
| E8     | ES-EL400-009    | 1/ PANEL | TOP RAIL (LAM. GLASS)               | 6063-T6       | _                      |
| E9     | ES-EL400-010    | 1/ PANEL | BOTTOM RAIL (LAM. GLASS)            | 6063-T6       | _                      |
| E10    | ES-EL400-011    | AS REQD. | JAMB STILE (LAM. GLASS)             | 6063-T6       | _                      |
| E11    | ES-EL400-030    | AS REQD. | INTERLOCK STILE (LAM. GLASS)        | 6063-T6       | _                      |
| E11A   | ES-EL400-031    | AS REQD. | INTERLOCK STILE (INSUL. LAM. GLASS) | 6063-T6       | _                      |
| E12    | ES-EL400-028    | AS REQD. | ASTRAGAL STILE (LAM. GLASS)         | 6063-T6       |                        |
| E12A   | ES-EL400-029    | AS REQD. | ASTRAGAL STILE (INSUL. LAM. GLASS)  | 6063-T6       | _                      |
| E13    | ES-EL400-014    | AS REQD. | JAMB COVER                          | 6063-T5       | -                      |
| E14    | ES-EL400-015    | AS REQD. | POCKET JAMB                         | 6063-T6       |                        |
| E15    | ES-EL400-016    | AS REQD. | SILL TRACK                          | 6063-T6       |                        |
| E16    | ES-EL400-017    | AS REQD. | HEAD COVER                          | 6063-T5       | -                      |
| E17A   | ES-2020-007     | AS REQD. | SILL RISER                          | 6063-T6       | _                      |
| E17B   | ES-2020-041     | AS REQD. | ALT. SILL RISER                     | 6063-T6       |                        |
| E18    | ES-EL400-020    | AS REQD. | FIXED PANEL BOTTOM GUIDE            | 6063-T6       | -                      |
| E26    | ES-6011         | AS REQD. | SCREW COVER                         | 6063-T6       | _                      |
|        |                 |          |                                     |               |                        |
| M1     | ES-EL400-G01    | 4/ PANEL | GLAZING GASKET (LAM. GLASS)         | SILICONE      | DUROMETER 70±3 SHORE A |
| M2     | ES-EL400-G02    | 4/ PANEL | GLAZING GASKET (INSUL. LAM. GLASS)  | SILICONE      | DUROMETER 70±3 SHORE A |
| М3     | ES2020-G04      | AS REQD. | INTERLOCK BUMPER                    | PVC           | DUROMETER 60±5 SHORE D |
| M4     | W33271NK        | AS REQD. | PILE W'STRIPPING (INTERLOCK)        | WOOL          |                        |
| M5     | W33181NK        | AS REQD. | PILE W'STRIPPING                    | WOOL          | _                      |
| М6     | PS01-0014       | AS REQD. | DOOR HANDLE                         | DIE CAST ALUM | TWO POINT HANDLE       |
| M7     | PS01-1015       | AS REQD. | STRIKE FOR MORTISE LOCK             | ST. STEEL     |                        |
| м8     | PS01-1036       | AS REQD. | MORTISE 2 POINT LOCK                | ST. STEEL     | _                      |
| М9     | GT-R34/3-01-A   | 2/ PANEL | ROLLER ASSEMBLY                     | ZAMAK         | _                      |
| M10    | 6844.1          | AS REQD. | BUMPER                              | ALUM/NYLON    | _                      |
| M11    | ES-EL400-FPI SL | AS REQD. | FIX. PANEL CLIP                     | ST. STEEL     | _                      |
| M12    | #8 X 3/4"       | AS REQD. | KEEPER FASTENERS                    | ST. STEEL     | P.H. SMS               |
| M13    | #10 X 1-1/4"    | AS REQD. | PANEL ASSEMBLY FASTENERS            | ST. STEEL     | P.H. SMS               |
| M14    | #10 X 1-1/2"    | AS REQD. | FRAME ASSEMBLY FASTENERS            | ST. STEEL     | P.H. SMS               |
| M15    | #6 X 3/8"       | AS REQD. | FIX. PANEL CLIP FASTENERS           | ST. STEEL     | P.H. SMS               |
| M16    | #8 X 1/2"       | AS REQD. | FIX. PANEL CLIP FASTENERS           | ST. STEEL     | F.H. SMS               |
| M18    | #10 X 1/2"      | AS REQD. | ROLLER FASTENERS                    | ST. STEEL     | P.H. SMS               |
| М19    | #10 X 1"        | AS REQD. | LOCK INSTALLATION FASTENERS         | ST. STEEL     | F.H. SMS               |
| M20    | #8 X 1/2"       | AS REQD. | HANDLE INSTALLATION FASTENERS       | ST. STEEL     | F.H. SMS               |
|        |                 |          |                                     |               |                        |

# SEALANT:

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

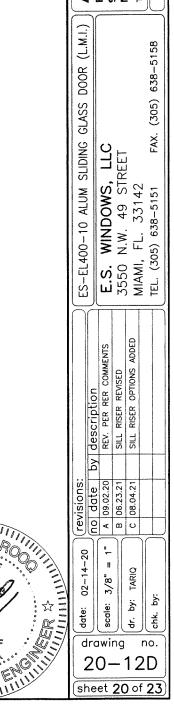
**PRODUCT REVISED** as complying with the Florida Building Code NOA-No. 21-0728.01

Expiration Date  $\underline{07/20/2022}$ 

By Shag I. Chank
Miami-Dade Product Control

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 44" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #8 X 1/2" FH SMS (M20) SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK 44" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #10 X 1" FH SMS SURFACE MOUNT METALLIC KEEPER AT 44" FROM BOTTOM FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH (3) #8 X 3/4" PH SMS (M12)



AUG 1 6 2021

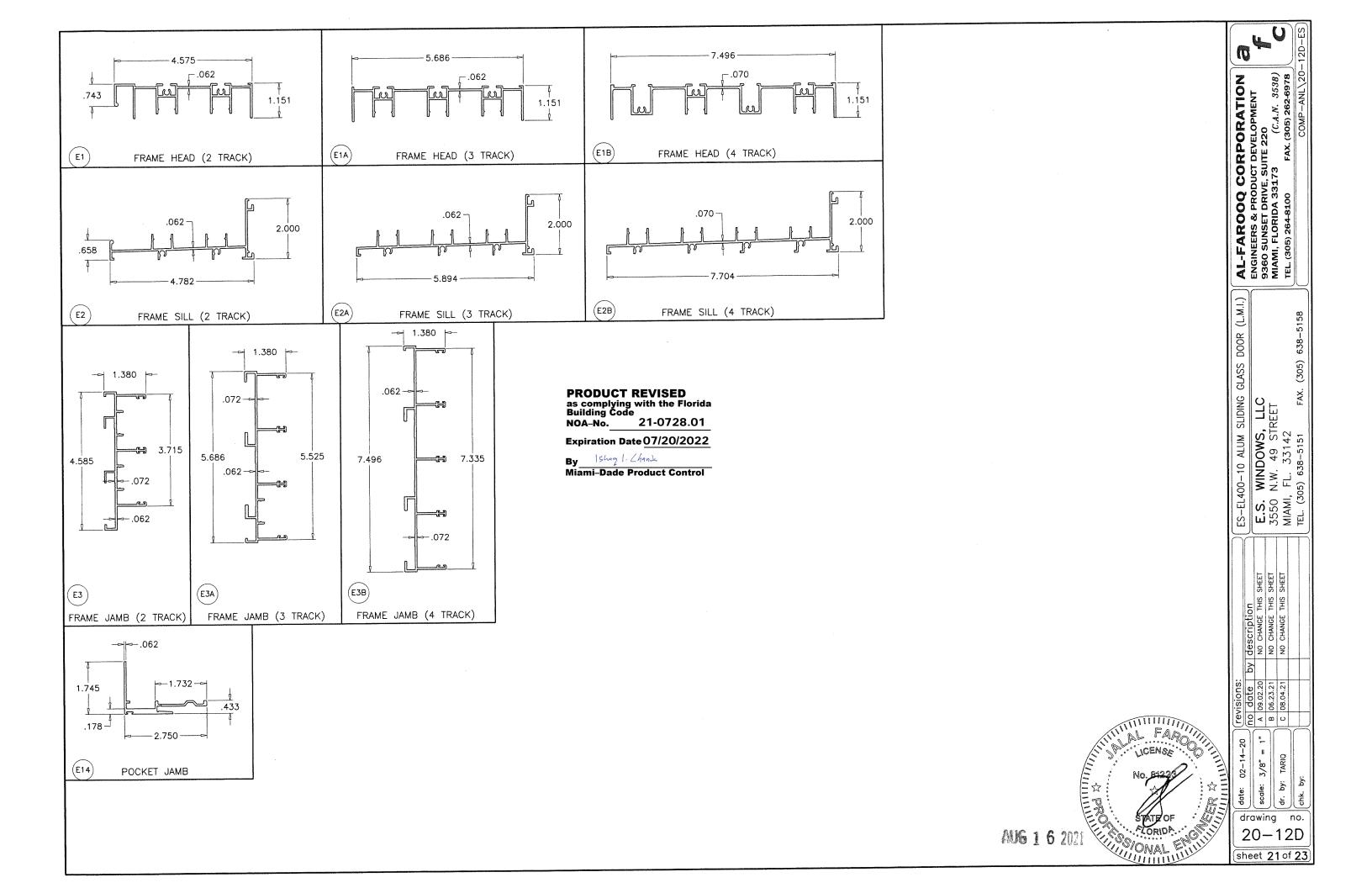
 AL-FAROOQ CORPORATION

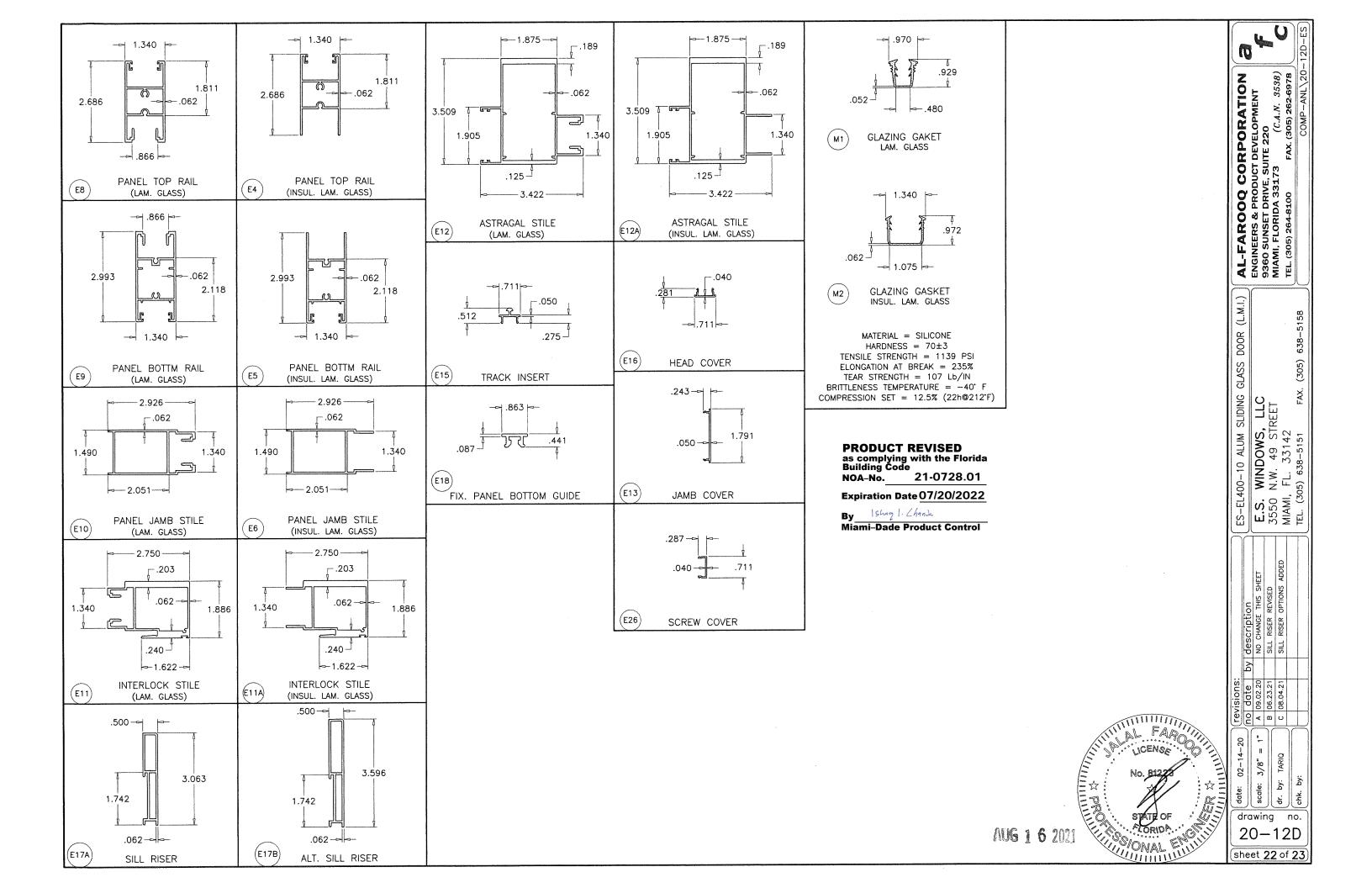
 ENGINEERS & PRODUCT DEVELOPMENT

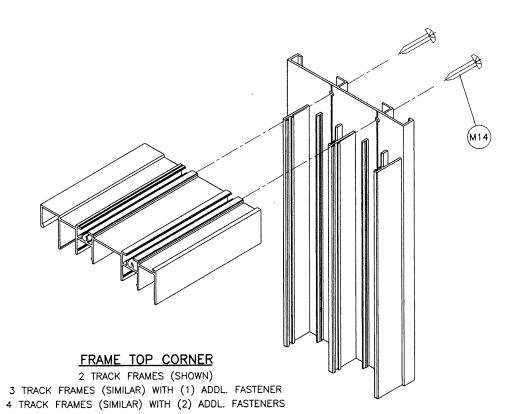
 9360 SUNSET DRIVE, SUITE 220

 MIAMI, FLORIDA 33173 (C.A.N. 3538)

 TEL. (305) 264-8100 FAX. (305) 262-6978

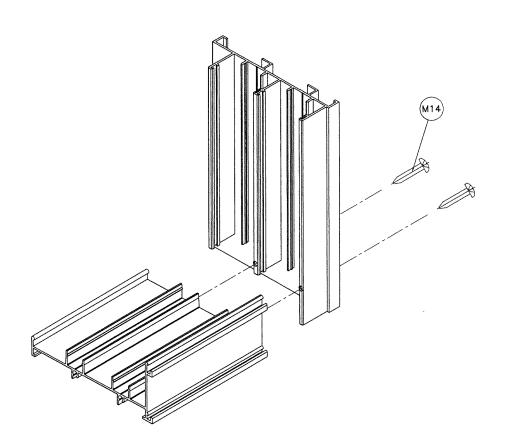






Expiration Date <u>07/20/2022</u>

By Shang I. Chank
Miami-Dade Product Control

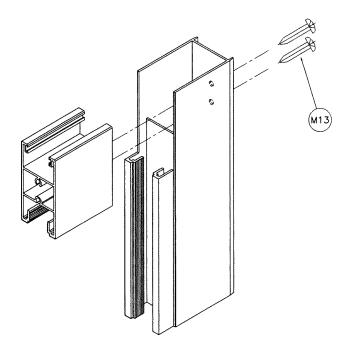


# FRAME BOTTOM CORNER

2 TRACK FRAMES (SHOWN)

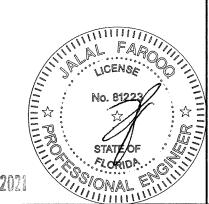
3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER

4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS



# PANEL TOP/BOTTOM CORNER

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



ES-EL400-10 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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