

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

E.S. Windows, LLC 3550 NW 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 "6100" Aluminum Sliding Glass Doors (Dry glazed) w/ reinforcements-S.M.I.

APPROVAL DOCUMENT: Drawing No. **W12-33 Rev I**, titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1, 2, 3, 3.1, 3.2, 4, 5, 5.1, 6 through 12 of 12, prepared by Al-Farooq Corporation, dated JUN 19, 2012 and last revised on JUL 17, 2023, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant Limitations:

- 1. See Design Pressures (DP) Vs reinforcement & glazing options charts in sheets **3**, **3.1**, **3.2**, **4** & **5**. See approved configurations in sheet 2.
- 2. See anchors capacity charts in sheet 5 & 5.1. Lower DP shall control of the <u>charts</u> in sheets 3 thru 5.1.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Barranquilla,

Columbia, S.A. and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

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

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

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

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

This NOA **revises** NOA #**21-0628.15** consists of this page 1 and evidence pages E-1, E2, E-3, E-4 and E-5, as well as approval document mentioned above.

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



Ishaq 1. Chandes

NOA No. 23-0724.14 Expiration Date: September 05, 2024 Approval Date: September 14, 2023 Page 1

1. Evidence submitted under previous NOAs

A. DRAWINGS

- 1. Manufacture's die drawings and sections (see files below).
- 2. Drawing No. **W12-33 Rev E**, titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated JUN 19, 2012 and last revised on 03/08/16, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under files #14-0428.23/#13-1007.03/#13-0226.05/#12-0620.01/#09-1217.02)

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) 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 OX aluminum sliding glass door, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL** –**7572**, dated 11/03/13, signed and sealed by Marlin D. Brinson, P. E.

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

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

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

C. CALCULATIONS

- Anchor verification calculations and structural analysis, complying with FBC-2014(5th Edition), prepared by Al Farooq Corporation, dated AUG 13, 2015 and last revised on MAR 07, 2016, signed and sealed by Javad Ahmad, P.E.
- 2. Glazing complies w/ ASTME-1300-02, -04 & -09.

Ishaq I. Chands

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 23-0724.14 Expiration Date: September 05, 2024 Approval Date: September 14, 2023

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. NOA No. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the "Sentry Glass ® Interlayer", expiring on 07/4/17.
- 2. NOA No. **14-0916.10** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "Kuraray **Butacite PVB Interlayer**", expiring on 12/11/16.
- 3. Technical cut sheet data for EPDM, rubber compound by Solucionesencaucho, Columbia.

F. STATEMENTS

- 1. Statement letter of conformance to FBC 2014 (5th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 08/13/15, signed and sealed by Javad Ahmad, P.E.
- 2. Lab compliance as part of the above referenced test report.

Ishag 1. Chandes

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 23-0724.14 Expiration Date: September 05, 2024 Approval Date: September 14, 2023

2. Evidence submitted under previous approval.

A. DRAWINGS

 Drawing No. W12-33 titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1, 2, 3, 3.1, 4, 5, 5.1, 6 through 12 of 12, prepared by Al-Farooq Corporation, dated 06/19/12 with revision G dated on 03/09/18, 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) Small 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. NOA 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.
- 2. NOA No. **19-0305.02** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "Kuraray **Trosifol PVB Interlayer**", expiring on 07/08/24.

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 # 15-0430.03, expiring 06/14/2018.

Ishaq 1. Chandes

3. Evidence submitted.

A. DRAWINGS

1. Drawing No. **W12-33 Rev H**, titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1, 2, 3, 3.1, 3.2, 4, 5, 5.1, 6 through 12 of 12, prepared by Al-Farooq Corporation, dated JUN 19, 2012 and last revised on DEC 01, 2021, signed and sealed by Jalal Farooq, 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) Small 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 Blackwater Testing Lab, Inc., Test Report No. **BT-GMP-19-012**, dated 09/19/2019, signed and sealed by Constantin Bortes, P. E.

C. CALCULATIONS

1. Anchor verification calculations complying with FBC2020 (7th Edition), prepared by Al Farooq Corporation, dated 05/17/2021, 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. NOA 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.
- 2. NOA No. **19-0305.02** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "Kuraray **Trosifol PVB Interlayer**", expiring on 07/08/24.

F. STATEMENTS

- 1. Statement letter of conformance to **FBC** 7th **Edition (2020)** and of no financial interest, prepared by Al-Farooq Corporation, dated 05/17/2021, signed and sealed by Jalal Farooq, P.E.
- 2. Statement letter dated DEC 08, 2021 issued by GMP Consulting & Contractors, Inc. authorizing ES winows, Inc. use of test report BT-GMP-19-012, signed by Nicholas Abuchaibe, CFO.

G. OTHER

- 1. This NOA revises NOA # 16-1130.04, expiring 09/05/2024.
- 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. Reference Test report Bt-GMP-021.

4. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **W12-33 Rev I**, titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1, 2, 3, 3.1, 3.2, 4, 5, 5.1, 6 through 12 of 12, prepared by Al-Farooq Corporation, dated JUN 19, 2012 and last revised on JUL 17, 2023, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 20-0915.22 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 11/19/20, expiring on 07/08/24.
- 2. Notice of Acceptance No. 22-1116.01 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/15/22, expiring on 07/04/28.

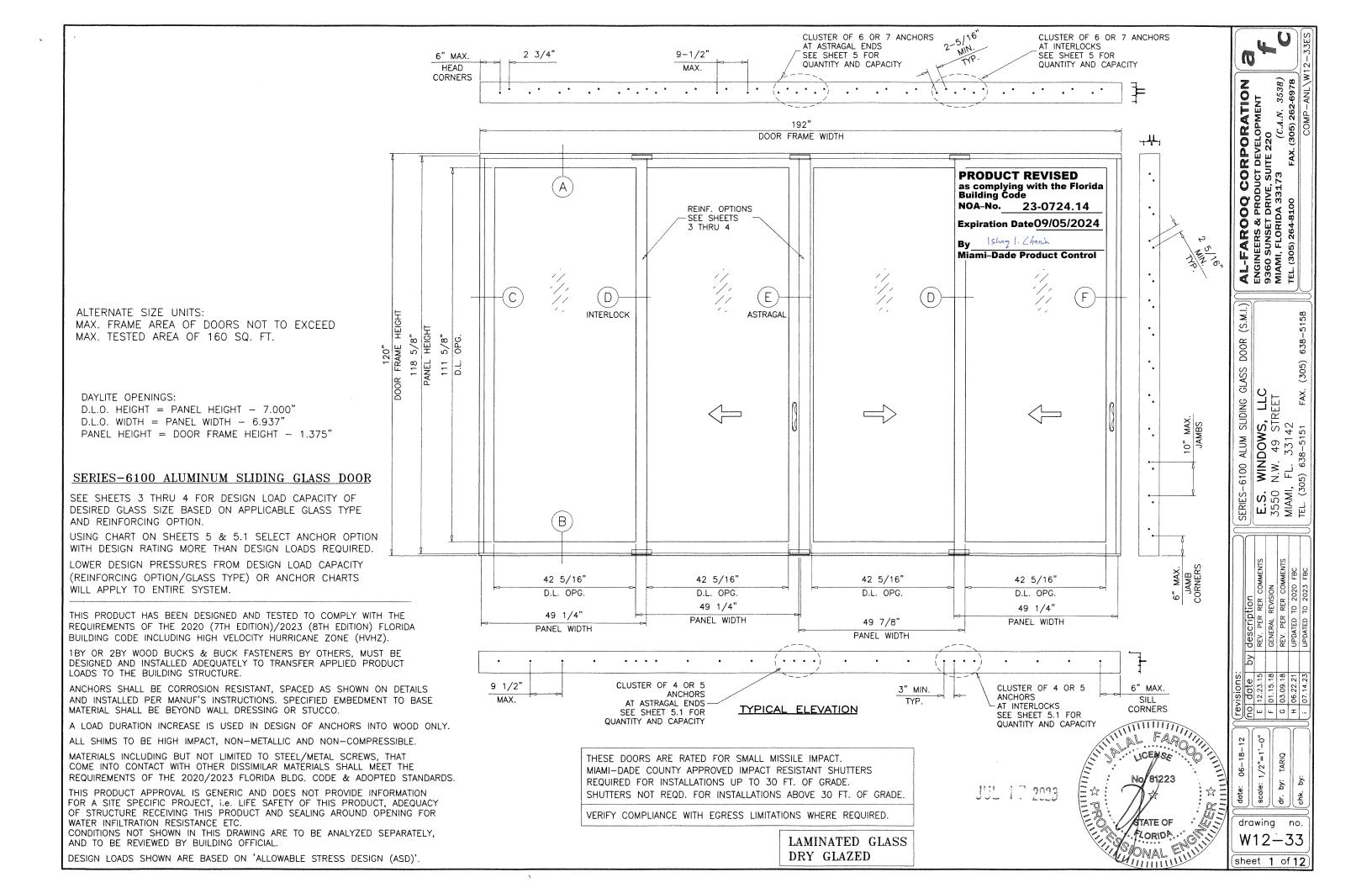
F. STATEMENTS

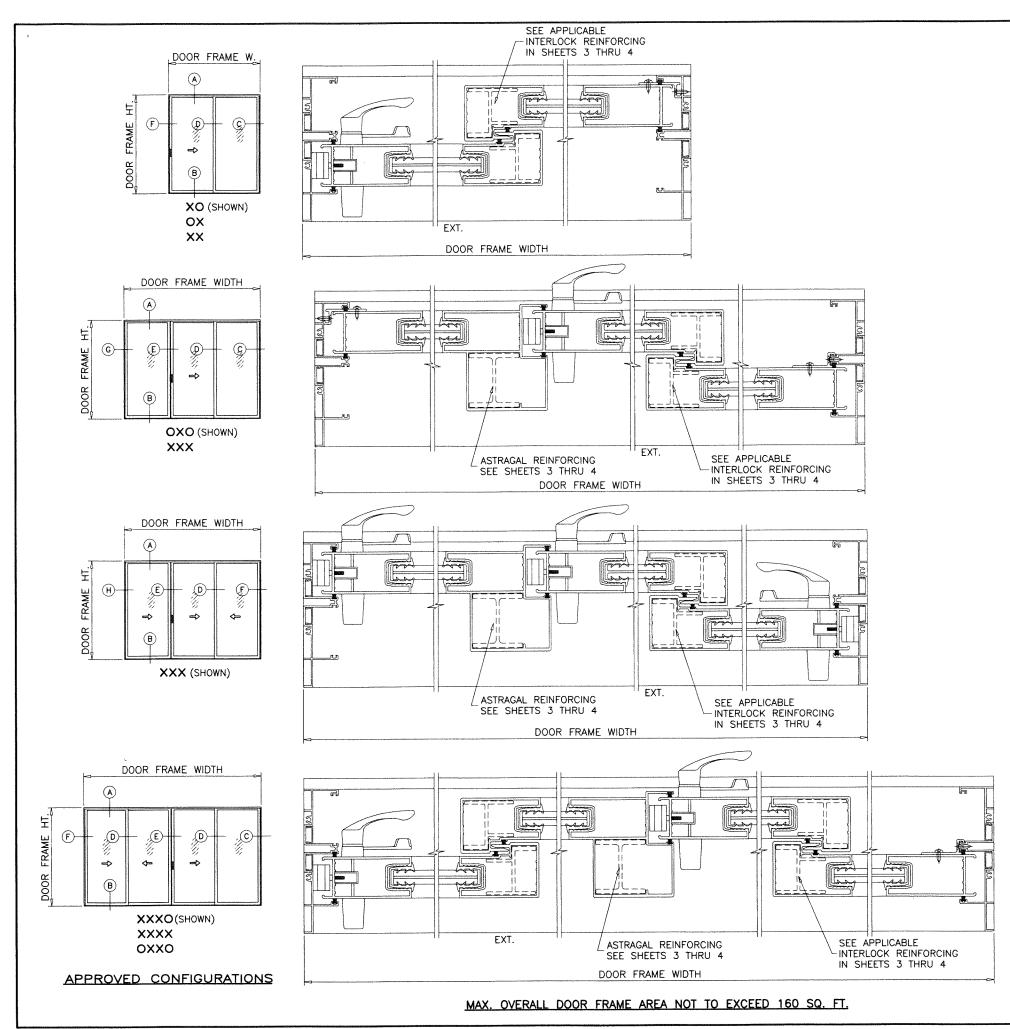
1. Statement letter of conformance to FBC 2023 (8th Edition), prepared by Al Farooq Corporation, dated 07/19/23, signed and sealed by Jalal Farooq, P.E.

G. OTHER

- 1. This NOA revises NOA # 21-0628.15 and updates to FBC 2023, expiring 09/05/24.
- 2. Distribution agreement between ES Windows, LLC (distributor) and Energia Solar, S.A, (manufacturer, dated 08/01/18, signed by MS. Carla Garcia (MGR) and Ms. Evelyn Deas (MGR) respectively (submitted under previous approvals).

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NOTE: SHEETS 5 & 5.1.

Expiration Date09/05/2024

By Ishag I. Chank Miami-Dade Product Control

JUL 17 2023

CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE SEE APPLICABLE DESIGN PRESSURE & SIZE IN SHEETS 3 THRU 4 AND ANCHOR INSTALLATION IN

> **PRODUCT REVISED** as complying with the Florida Building Code NOA-No. 23-0724.14

U 4 Q (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 AN COMP. (S.M.I.) -5158 DOOR 638-(305) SERIES-6100 ALUM SLIDING GLASS E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (
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 Rev. PER RER COMMENTS

 GENERAL REVISION

 Rev. PER RER COMMENTS

 UPDATED TO 2020 FBC

 NO CHANGE THIS SHEET

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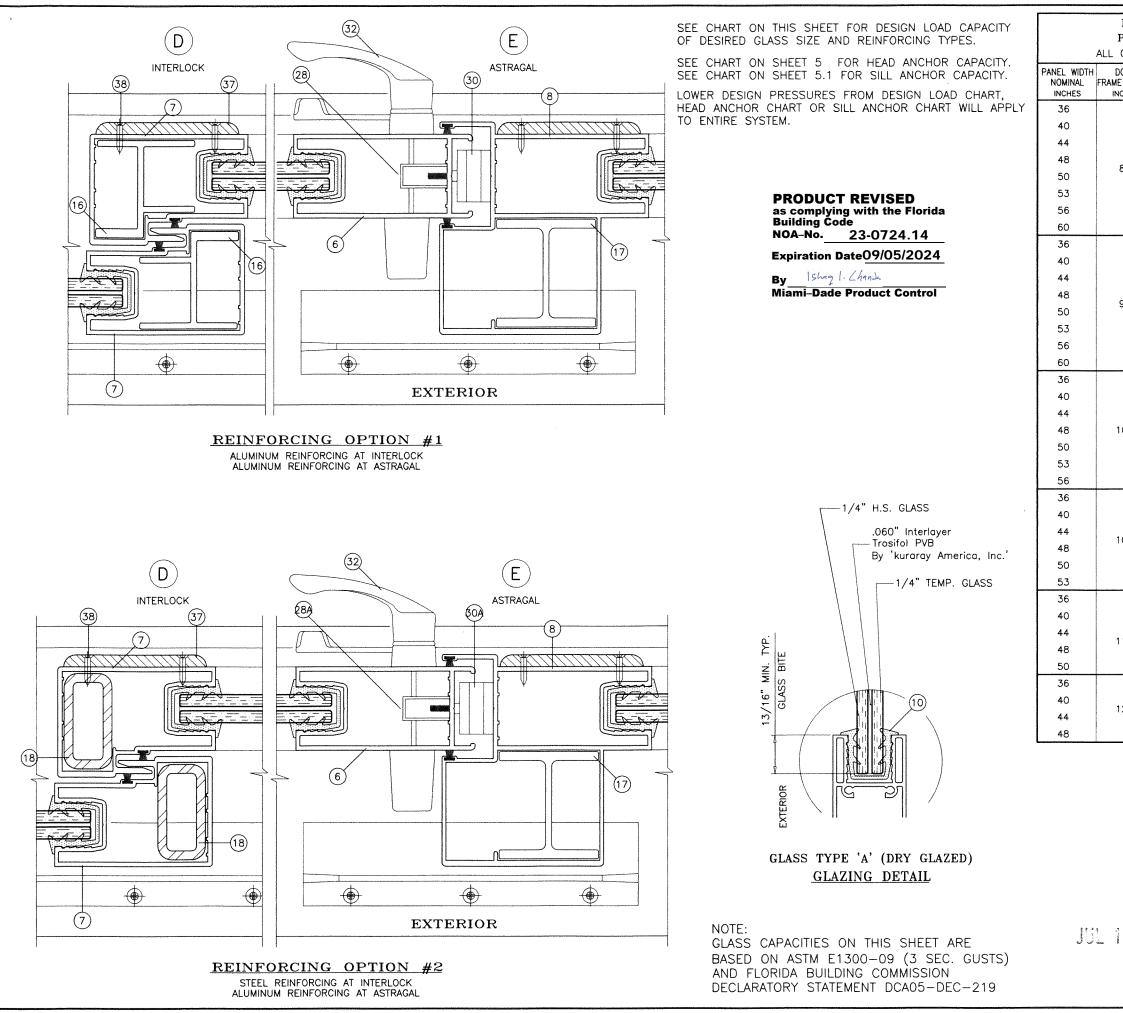
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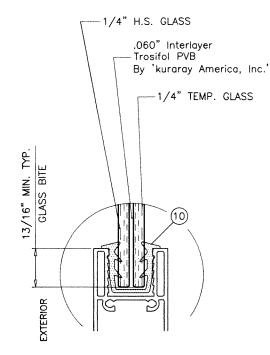
REINFORCING OPTION #1 ALUMINUM REINFORCING AT INTERLOCK SEE CHART ON THIS SHEET FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ON SHEET 5 FOR HEAD ANCHOR CAPACITY. SEE CHART ON SHEET 5.1 FOR SILL ANCHOR CAPACITY.

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

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0724.14 Expiration Date09/05/2024 'X0' OR '0X' DOORS ONLY

By Ishag I. Chank Miami-Dade Product Control



GLASS TYPE 'A' (DRY GLAZED) GLAZING DETAIL

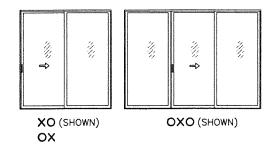
NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

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40 44 48 50 53 56 36 40 44 48 50 53 36 40 44 48 50 53 36 40 44 48 50 53 10 10 44 10 10 10 10 10 10 10 10 10 10		88.0	88.0	-51 (S.
44 48 50 53 56 36 40 44 48 50 53 36 40 44 48 50 53 36 40 44 48 50 53 10 10 10 10		110.0	110.0	SERIES-6100 ALUM SLIDING CLASS DOOR (S.M.I. E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158
48 50 53 56 36 40 44 48 50 53 36 40 44 48 50 53 36 40 44 48 50 53 36 40 44 48 50 53 10 10 10 10 10 10 10 10 10 10		110.0	110.0	DO
50 53 56 36 40 44 48 50 53 36 40 44 48 50 36 40 44 48 50 10 36 40 44 48 50 53 36 40 40 41 40 41 40 41 40 41 40 41 40 41 40 41 40 41 40 40 41 40 40 41 40 40 40 40 40 40 40 40 40 40		110.0	110.0	305
53 56 36 40 44 48 50 53 36 40 44 48 50 36 40 44 48 50 36 40 44 48 50 36 40 41	90	110.0	110.0	
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36 40 44 48 50 53 36 40 44 48 50 36 40 40 44 10		99.6	99.6	
40 44 48 50 53 36 40 44 48 50 36 40 40 44 10		94.3	94.3	5100 ALUM SLIDING WINDOWS, LL N.W. 49 STREE FL. 33142 5) 638-5151 F2
44 48 50 53 36 40 44 48 50 36 40 40 44 10		110.0	110.0	EERIES-6100 ALUM S E.S. WINDOWS 3550 N.W. 49 S MIAMI, FL. 33143 TEL. (305) 638-5151
48 50 53 36 40 44 48 50 36 40 40 10 44		110.0	110.0	0 ND ND 8
50 53 36 40 44 48 50 36 40 40 44	96	110.0	110.0	5) FL WI
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40 10 44 10		110.0	110.0	description GENERAL REVISION REV. PER RER COMMENTS UPDATED TO 2020 FBC
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	108-1/2	110.0	110.0	STID PER TED
		110.0	110.0	ENER EV.
	In State	AL FA	Rosini	06-18-12 06-18-12 no date by d 1/2" = 1" F 01.15.18 C 03.09.18 H 06.22.21 U U
023		516. 8122 ☆ STATE OF 		الله الله الله الله الله الله الله الله

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

SEE CHART ON SHEET 5 FOR HEAD ANCHOR CAPACITY. SEE CHART ON SHEET 5.1 FOR SILL ANCHOR CAPACITY.

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

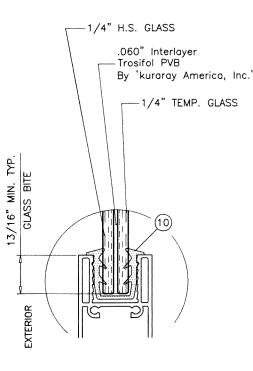


APPROVED CONFIGURATIONS

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-0724.14

Expiration Date09/05/2024

By Ishag I. Chanda Miami-Dade Product Control



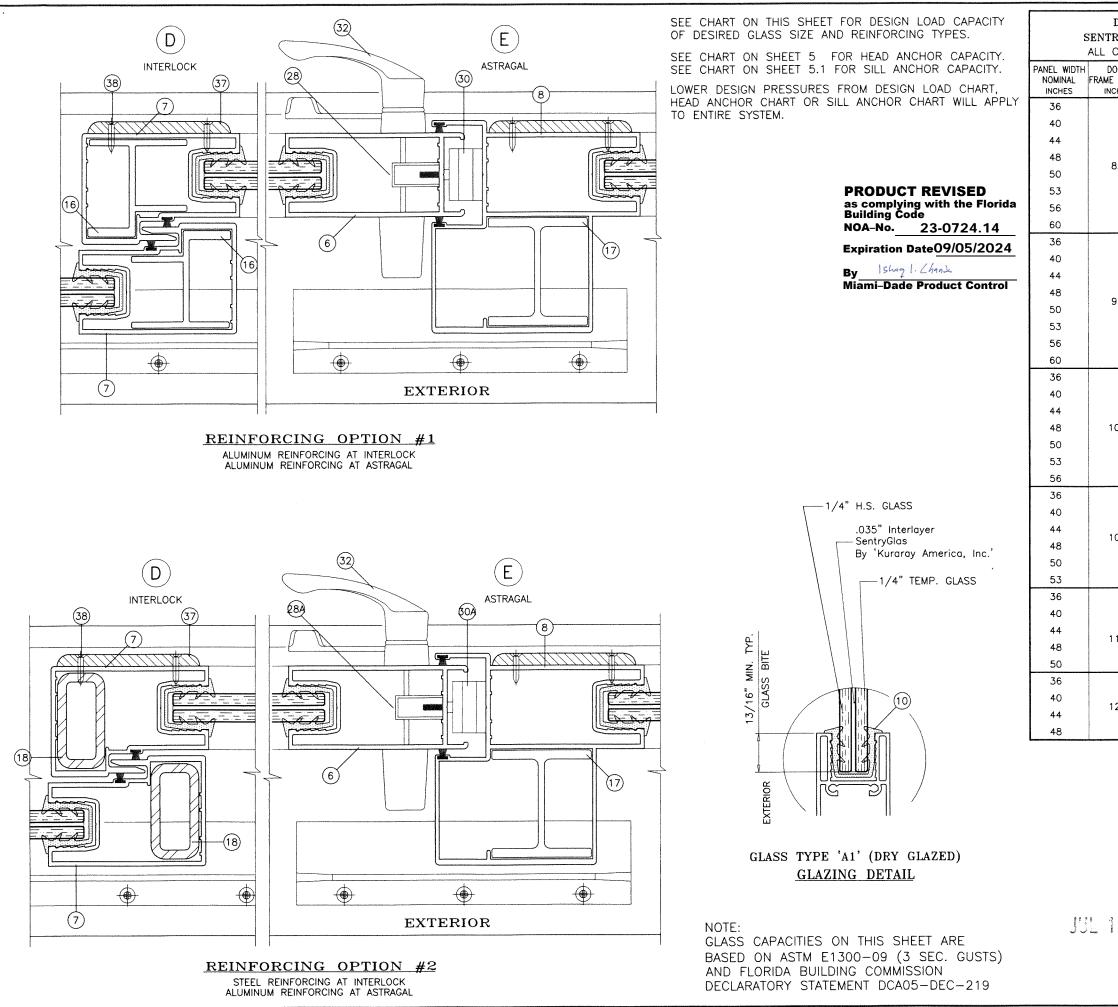
GLASS TYPE 'A' (DRY GLAZED) **GLAZING DETAIL**

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

32 E INTERLOCK ASTRAGAL **(8**) 60A (38) (37) $\overline{7}$ (18 (6)(17)(18) ۲ ۲ ۲ ۲ ۲ $\overline{\mathcal{O}}$ EXTERIOR

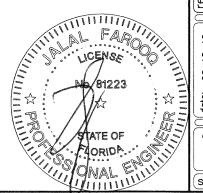
> **REINFORCING OPTION #2** STEEL REINFORCING AT INTERLOCK ALUMINUM REINFORCING AT ASTRAGAL

PACITY. YXO', 'OX' OR 'OXO' CONFIGURAT ACITY. PANEL WIDTH DOOR REINF. C HART, 36 85.0 L APPLY 36 85.0 40 85.0 85.0 44 85.0 85.0 44 85.0 85.0 44 85.0 85.0 44 85.0 81.6 53 77.0 56 72.9 60 68.0 85.0 85.0 44 85.0 85.0 81.6 53 77.0 56 72.9 60 68.0 85.0 85.0 44 85.0 85.0 85.0 44 85.0 85.0 85.0 50 50 81.6 53 77.0 56 72.9 60 68.0 85.0 50 81.6 53 77.0 85.0 85.0 85.0 85.0 85.0 85.0 14 40 85.0 85.0 81.6 50 50	OPTION #2	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 TEL. (305) 264-8100 COMP-ANL/W12-3358
ACITY. HART, L APPLY BO ACITY. HART, L APPLY ACITY. HART, L APPLY BO ACITY. HART, L APPLY BO ACITY. HART, L APPLY BO ACITY. ACITY. HART, INCHES BO ACITY. ACITY. HART, INCHES BC. ACITY. ACITY. HART, INCHES BC. ACITY. ACITY. HART, INCHES BC. ACITY.	INT. (-) 123.0 123.0 115.7 110.0 105.6 99.6 94.3 88.0 123.0	ORPO ICT DEVEL SUITE 220 73 (1 FAX. (3)
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L APPLY 36 85.0 40 85.0 44 88 50 81.6 53 77.0 56 72.9 60 68.0 36 85.0 40 85.0 40 85.0 40 85.0 40 85.0 40 85.0 44 85.0 44 85.0 48 96 85.0 81.6 53 77.0 56 72.9 60 68.0 81.6 53 77.0 56 85.0 81.6 53 77.0 56 85.0 81.6 50 88.0 85.0 81.6 50 88.0 85.0 81.6 85.0 85.0 85.0 81.6 85.0 85.0 85.0 81.6 77.0 85.0 81.6 77.0 85.0 81.6 77.0 85.0 81.6 77.0 85.0 81.6 77.0 85.0 81.6 77.0 85.0 81.6 77.0 85.0 81.6 77.0 85.0 81.6 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 85.0 81.6 77.0 77.	123.0 115.7 110.0 105.6 99.6 94.3 88.0 123.0	ORPO ICT DEVEL SUITE 220 73 (1 FAX. (3)
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56 72.9 60 68.0 Florida 36 85.0 .14 40 85.0 2024 44 85.0 50 50 81.6 53 77.0	99.6	
D 60 68.0 Florida 36 85.0 .14 40 85.0 2024 44 85.0 50 81.6 53	94.3	
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14 44 85.0 2024 48 102 85.0 50 81.6 53 77.0	123.0	538
2024 48 102 85.0 50 50 81.6 53 77.0	110.0	
50 81.6 53 77.0		ASS [
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56 /2.9	99.6	-6100 ALUM SLIDING WINDOWS, LL N.W. 49 STREE1 , FL. 33142 305) 638-5151 FA
	94.3	5100 ALUM SL WINDOWS, N.W. 49 ST FL. 33142 5) 638-5151
36 85.0	123.0	ALUM SI DOWS 49 ST 33142 8-5151
40 85.0	123.0	0 ALUM S NDOWS N. 49 S . 33145
44 108 85.0	110.0	5100 / WINE W.W. FL.
48 85.0	110.0	S-61(S. V 0 N. (305)
50 81.6	105.6	SERIES-6 E.S. 3550 1 MIAMI, TEL. (30
53 77.0	99.6	serie E.S 355 Miai Tel.
36 85.0	123.0	
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41-3/8 85.0	123.0	
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44 114 85.0	110.0	LIC SIH
48 85.0	110.0	otic
50 81.6	105.6	scription CHANGE THIS
36 85.0	110.0	description No CHANGE TH
40 120 85.0	110.0	
44 85.0	110.0	
48 85.0	110.0	1.23
		no date
ILCENSE NO,81223		: 06-18-12 e: 1/2" = 1" by: TARIO
JUL 1 7 2023 EX STATE OF	: ☆ =	date: scale: dr. by: chk. by
SONAL	RER.	drawing no.



RIGLAS	N LOAD CA	ED GLASS	PSF TYPE 'A1	3	Popment Opment C.A.N. 3538) 55) 262-6978 COMP-ANL/W12-3355 COMP-ANL/W12-3355
DOR	REINF. 0	SHOWN ON	l'	PTION #2	
HEIGHT		<u>_</u>			RPORATION DEVELOPMENT TE 220 (C.A.N. 3538) FAX. (305) 262-6978 COMP-ANL/V
HES	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EN 3
	85.0	100.0	85.0 85.0	140.0	A.N.
	85.0	100.0		140.0	
	85.0	100.0	85.0	140.0	
32	85.0	100.0	85.0	140.0	
	85.0	96.0	85.0	134.4	
	85.0	90.5	85.0	126.8	31. NO
	85.0	85.7	85.0	120.0	D R R O
	80.0	80.0	85.0	112.0	0 8 T 8 8
	85.0	100.0	85.0	140.0	Se Point R
	85.0	100.0	85.0	140.0	
	85.0 85.0	100.0	85.0 85.0	140.0	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 TEL. (305) 264-8100 COMP-ANLV
96		100.0 96.0			
	85.0		85.0 85.0	105.6 99.6	
	85.0	90.5	85.0		
	85.0	85.7	85.0	94.3	000R (S.M. 638-5158
	85.0	80.0	85.0	88.0	SERIES-6100 ALUM SLIDING GLASS DOOR (S.M. E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158
	85.0	100.0	85.0	110.0	00F 638
	85.0	100.0	85.0	110.0	5) D(
	85.0	100.0	85.0	110.0	IG GLASS I LC ET FAX. (305)
02	85.0	100.0	85.0	110.0	× O ^C
	85.0	96.0	85.0	105.6	
	85.0	90.5	85.0	99.6	SLIDING /S, LL STREET 42 51 FA
	80.0	80.0	85.0	94.3	5100 ALUM SLIE WINDOWS, N.W. 49 STF FL. 33142 5) 638-5151
	85.0	100.0	85.0	110.0	00 ALUM S INDOWS W. 49 S L. 33142 638-5151
	85.0	100.0	85.0	110.0	338 (3 · C
08	85.0	100.0	85.0	110.0	-6100 - WINI N.W. FL.
	85.0	100.0	85.0	110.0	305
	85.0	96.0	85.0	105.6	SERIES-61(E.S. W 3550 N. MIAMI, F TEL. (305)
	85.0	90.5	85.0	99.6	E H H H H H H H H H H H H H H H H H H H
	85.0	100.0	85.0	110.0	
	85.0	100.0	85.0	110.0	
14	85.0	100.0	85.0	110.0	v v
	85.0	96.0	85.0	110.0	OMMENT M OMMENT D FBC SHEET
	85.0	96.0	85.0	105.6	S SF F SOM
	85.0	100.0	85.0	110.0	THIS
20	85.0	100.0	85.0	110.0	SCTIDTION PER RER CC FERAL REVISION PER RER CC ATED TO 2020 CHANGE THIS
	85.0	96.2	85.0	110.0	
	85.0	90.0	85.0	110.0	
	85.0	90.0	* ,		B-12 Fevisions: no date by = 1" F 0.15.18 F 0.15.18 F 0.15.18 H 06.2221 H 06.2221
7 21	223		No. 81223 ☆ STATE OF		drawing no. W12-33 (sheet 4 of 12)

nennennennennennennennennennennennennen		2220-1929-1946-1947-1947-1947-1947-1947-1947-1947-1947	HE	EAD ANCHOR	LOAD CAPA	CITY – PSF		[HE	AD ANCHOR	LOAD CAPA	CITY - PSF	
TVDICA	L ANCHORS: SEE ELEV. FOR SPACING		1	ANCHOR	TYPE 'A'	ANCHOR 'B'	ANCHOR 'C'			ANCHOR	TYPE 'A'	ANCHOR 'B'	ANCHOR 'C'
IIFICA				6 ANCHORS	7 ANCHORS	6 ANCHORS	6 ANCHORS			6 ANCHORS	1	6 ANCHORS	6 ANCHORS
	— — — — AT HEAD — — — — — — — — — — — — — — — — — — —			AT MTG.	AT MTG.	AT MTG.	AT MTG.			AT MTG.	AT MTG.	AT MTG.	AT MTG. STILE ENDS
TYPE 'A'-	1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)		DOOR FRAME			EXT. (+)	STILE ENDS EXT. (+)	•	DOOR FRAME	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)
	INTO 2BY WOOD BUCKS OR WOOD STRUCTURES	PANEL WIDTI INCHES	H HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	INT. (-)	INT. (-)	PANEL WIDTH	INCHES	INT. (-)	INT. (-)	INT. (-)	INT. (-)
1	1-1/2" MIN. PENETRATION INTO WOOD	30		140.0	140.0	140.0	140.0	30		123.0	123.0	123.0	123.0
	THRU 1BY BUCKS INTO CONCRETE	36		140.0	140.0	140.0	140.0	36		123.0	123.0	123.0	123.0
	1-1/2" MIN. EMBED INTO CONCRETE	40		140.0	140.0	140.0	140.0	40		123.0	123.0	123.0	123.0
	,	42		140.0	140.0	140.0	140.0	42		110.0	110.0	110.0	110.0
TYPE 'B'-	1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)	44	82	140.0	140.0	140.0	140.0	44	108-1/2	108.5	110.0	110.0	110.0
1	DIRECTLY INTO CONCRETE	48		140.0	140.0	140.0	140.0	48		101.8	110.0	110.0	110.0
	1–1/2" MIN. EMBED	50		140.0	140.0	140.0	140.0	50		98.9	110.0	110.0	110.0
TYPE 'C'-	#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)	53		140.0	140.0	140.0	140.0	53		95.0	110.0	110.0	110.0
	INTO MIAMI-DADE COUNTY APPROVED MULLIONS	56		134.4	140.0	140.0	140.0	30		110.0	110.0	110.0	110.0
b.	OR	60		132.4	140.0	140.0	140.0	36		110.0	110.0	110.0	110.0
	INTO METAL STRUCTURES	30		140.0	140.0	140.0	140.0	40		109.8	110.0	110.0	110.0
	(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS	36		140.0	140.0	140.0	140.0	42	114	105.7	110.0	110.0	110.0
	ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)	40		140.0	140.0	140.0	140.0	44		102.0	110.0	110.0	110.0
	STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)	42		140.0	140.0	140.0	140.0	48		95.6	110.0	110.0	110.0
	(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)	44	84	140.0	140.0	140.0	140.0	50		92.8	108.3	110.0	110.0
Namestapyde i sawaarintatere aansa		48		140.0	140.0	140.0	140.0	30		110.0	110.0	110.0	110.0
	— — — — AT SILL — — — — — — — — — — — — — — — — — —	50		140.0	140.0	140.0	140.0	36		110.0	110.0	110.0	110.0
TYPE 'B'-	1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)	53		135.5	140.0	140.0	140.0	40	120	103.2	110.0	110.0	110.0
1	DIRECTLY INTO CONCRETE	56		131.7	140.0	140.0	140.0	42	120	99.3	110.0	110.0	110.0
	1-3/4" MIN. EMBED	60		127.5	140.0	140.0	140.0	44		95.8	110.0	110.0	110.0
L		30		140.0	140.0	140.0	140.0	48		89.6	104.6	110.0	110.0
	AT JAMBS	36		140.0	140.0	140.0	140.0						
TYPE 'A'-	1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)	40		140.0	140.0	140.0	140.0						
La constante de	INTO 2BY WOOD BUCKS OR WOOD STRUCTURES	42		140.0	140.0	140.0	140.0	PRO			rido		
0000000	1-1/2" MIN. PENETRATION INTO WOOD	44	90	138.0	140.0	140.0	140.0	Build	ing Code	ith the Flo	riua		
1	THRU 1BY BUCKS INTO CONC. OR BLOCKS	48		130.4	140.0	140.0	140.0	NOA-	-No. 23	3-0724.1	4		
	1-1/4" MIN. EMBED INTO CONC. OR BLOCKS	50		127.1	140.0	140.0	140.0	Expir	ation Date	09/05/20	24		
	,	53		122.7	140.0	140.0	140.0	Bv	Ishaq 1. Ch	iands			
TYPE 'B'-	1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)	56		118.9	138.8	140.0	140.0	Miam	i-Dade Pro	oduct Cont	rol		
1	DIRECTLY INTO CONC. OR BLOCKS	60		114.7	133.8	140.0	140.0						
	1-1/4" MIN. EMBED INTO CONC. OR BLOCKS	30		140.0	140.0	140.0	140.0						
TYPE 'C'-	#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)	36		140.0	140.0	140.0	140.0						
1	INTO MIAMI-DADE COUNTY APPROVED MULLIONS	40		135.9	140.0	140.0	140.0 140.0						
1	OR	42	0.0	131.1	140.0	140.0							LOAD CAPACIT
	INTO METAL STRUCTURES	44	96	126.8	140.0	140.0	140.0 140.0	OF DESI	RED GLASS	S SIZE ANI	D REINFOR	CING TYPE:	5.
	(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS	48		119.5	139.4	110.0	140.0					CAPACITY.	
	ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)	50		110.0	110.0	110.0	110.0					NCHOR CA	
	STEEL: $1/8$ " THK. MIN. (Fy = 36 KSI MIN.)	53 56		106.3	110.0	110.0	110.0					GN LOAD	
	(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)	58 60		104.3	110.0	110.0	110.0		RE SYSTEN		L ANCHUR	R CHART W	ILL APPLI
		30		123.0	123.0	123.0	123.0						
	DGE DISTANCES	36		123.0	123.0	123.0	123.0						
	CRETE = $2-1/2^{\circ}$ MIN. D STRUCTURE = 1 [°] MIN.	40		123.0	123.0	123.0	123.0						WIIIII.
	L STRUCTURE = $3/4$ " MIN.	40		110.0	110.0	110.0	110.0					AL IT	FARATIN
	HEAD OR JAMBS SG = 0.55 MIN.	44	102	110.0	110.0	110.0	110.0				,	(1) Altri	CENSA
	AT HEAD, SILL OR JAMBS I'C = 3000 PSI MIN.	48		110.0	110.0	110.0	110.0						
	LOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.	50		107.3	110.0	110.0	110.0					, i M	81223
		53		103.2	110.0	110.0	110.0					WI X	
								1		1 7 90	110 0	70: /	//~``iu



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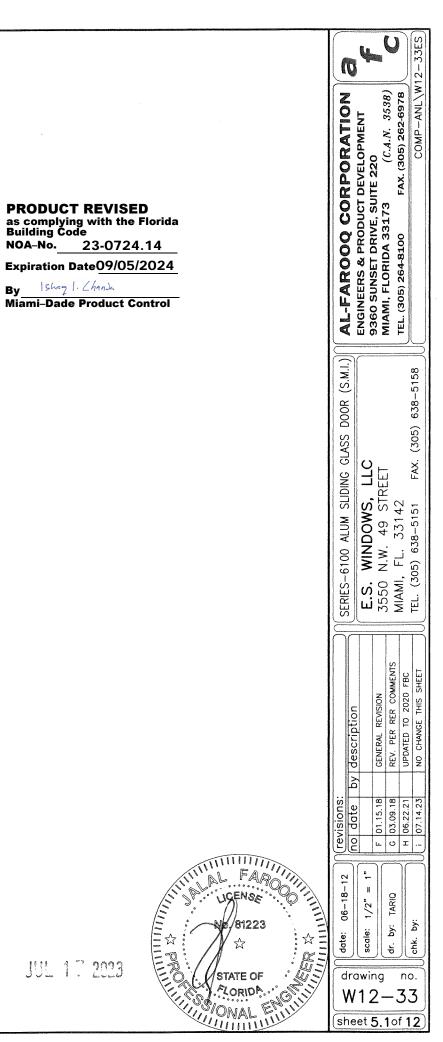
Instruction Imstruction Imstruction	SERIES-6100 ALUM SLIDING CLASS DOOR (S.M.I.) AL-FAROOQ CORPO E.S. WINDOWS, LLC ENGINEERS & PRODUCT DEVEL 3550 N.W. 49 STREET 9360 SUNSET DRIVE, SUITE 221 MIAMI, FL. 33142 TEL. (305) 638-5151
by description REV. PER RER COMMENTS GENERAL REVISION REV. PER RER COMMENTS UPDATED TO 2020 FBC NO CHANGE THIS SHEET	Image: Construction Image: Construction Imag
þ	Fevisions: no date by F 01.15.18 01.15.18 H 06.22.21 00.14.23

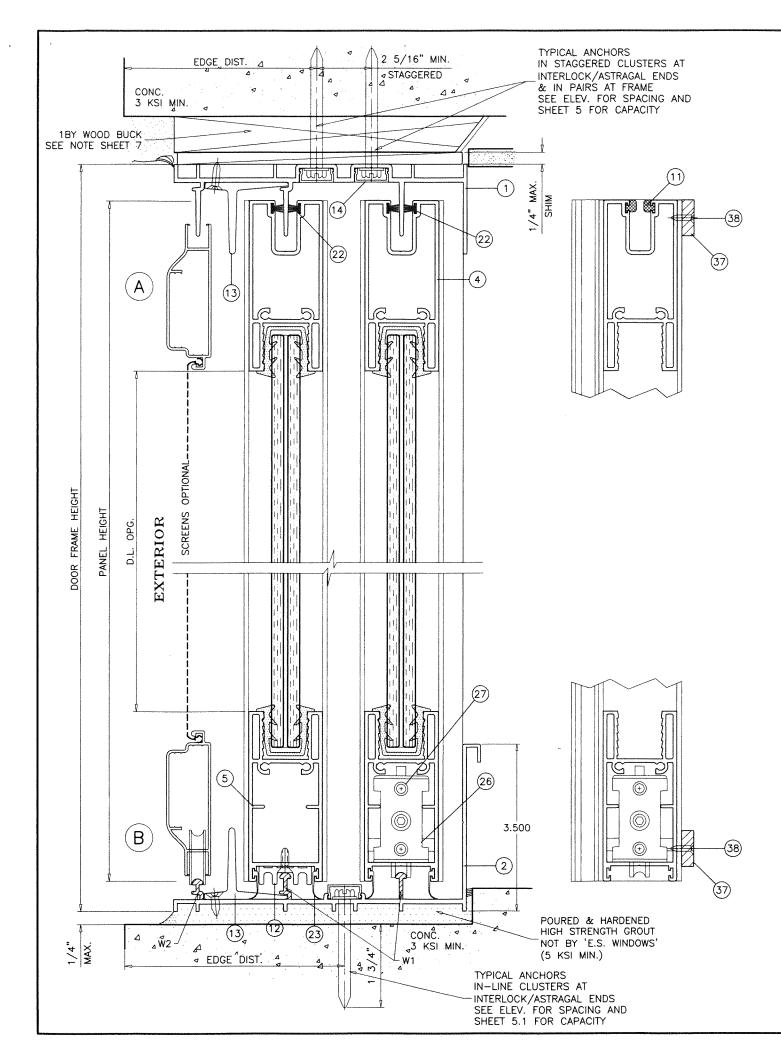
' SILL A	NCHOR LOA	D CAPACITY	– PSF	SILL	ANCHOR LOA	D CAPACITY	– PSF
		ANCHOR	TYPE 'B'			ANCHOR	TYPE 'B'
AVERAGE	DOOR FRAME	4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS	AVERAGE	DOOR FRAME	4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS
PANEL WIDTH INCHES	HEIGHT INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)	PANEL WIDTH INCHES	HEIGHT INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30		140.0	140.0	30		123.0	123.0
36		140.0	140.0	36		123.0	123.0
40		140.0	140.0	40		123.0	123.0
42		140.0	140.0	42	108-1/2	110.0	110.0
44	82	140.0	140.0	44	100-1/2	110.0	110.0
48		140.0	140.0	48		110.0	110.0
50		140.0	140.0	50		107.6	110.0
53		140.0	140.0	53		103.4	110.0
56		140.0	140.0	30		110.0	110.0
60		140.0	140.0	36		110.0	110.0
30		140.0	140.0	40		110.0	110.0
36		140.0	140.0	42	114	110.0	110.0
40		140.0	140.0	44		110.0	110.0
42		140.0	140.0	48		104.0	110.0
44	84	140.0	140.0	50		101.0	110.0
48		140.0	140.0	30		110.0	110.0
50		140.0	140.0	36		110.0	110.0
53		140.0	140.0	40	120	110.0	110.0
56		140.0	140.0	42	120	108.1	110.0
60		138.7	140.0	44		104.2	110.0
30		140.0	140.0	48		97.5	110.0
36		140.0	140.0				
40	1	140.0	140.0				
42		140.0	140.0				
44	90	140.0	140.0				
48		140.0	140.0				
50		138.2	140.0				
53		133.5	140.0				
56		129.4	140.0				
60		124.8	140.0				
30		140.0	140.0				
36		140.0	140.0				
40		140.0	140.0				
42		140.0	140.0				
44	96	138.0	140.0				
48		130.0	140.0				
50		110.0	110.0				
53		110.0	110.0				
56		110.0	110.0				
60		110.0	110.0				
30		123.0	123.0				
36		123.0	123.0				
40		123.0	123.0				
42	102	110.0	110.0				
44	,02	110.0	110.0				
48		110.0	110.0				9
50		110.0	110.0				(
53	<u> </u>	110.0	110.0	J			
							:

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

SEE CHART ABOVE FOR SILL ANCHOR CAPACITY. SEE CHART ON SHEET 5 FOR HEAD ANCHOR CAPACITY.

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



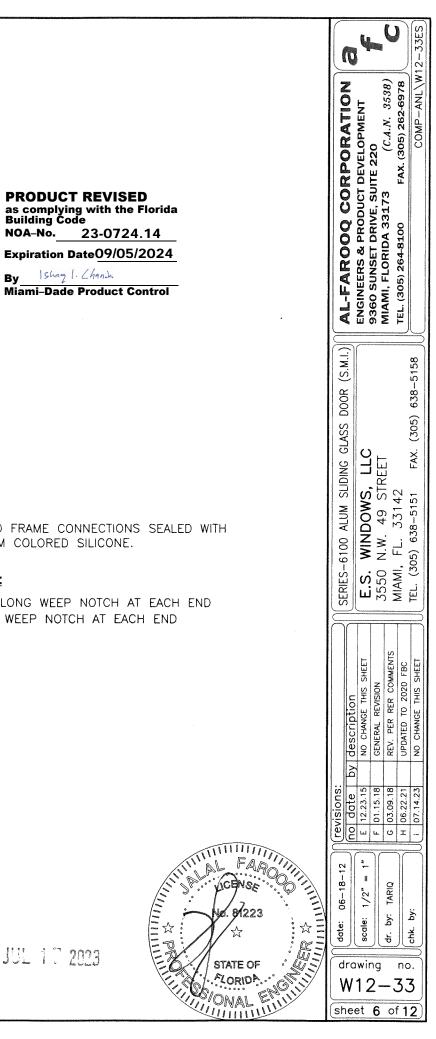


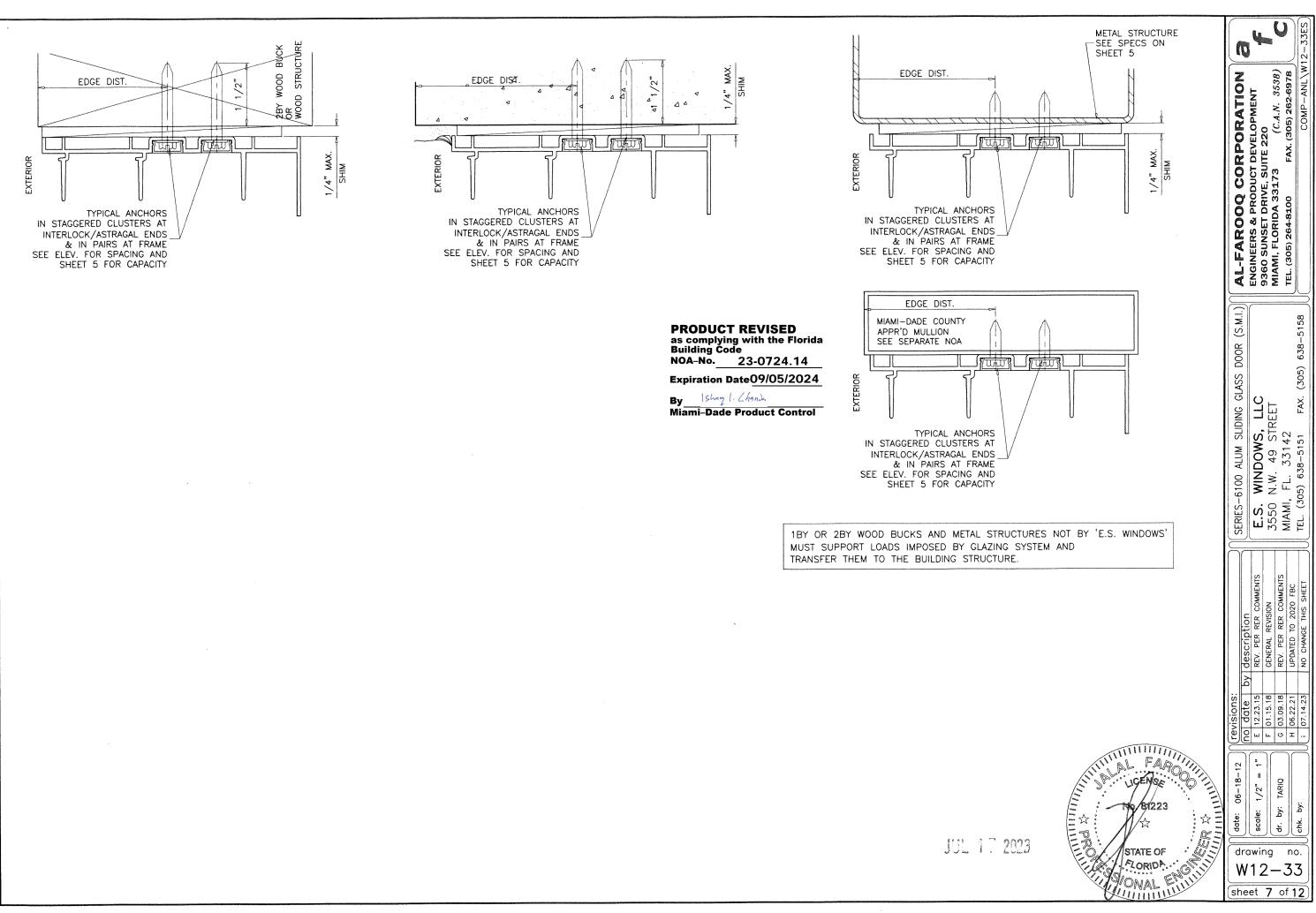
SEALANT:

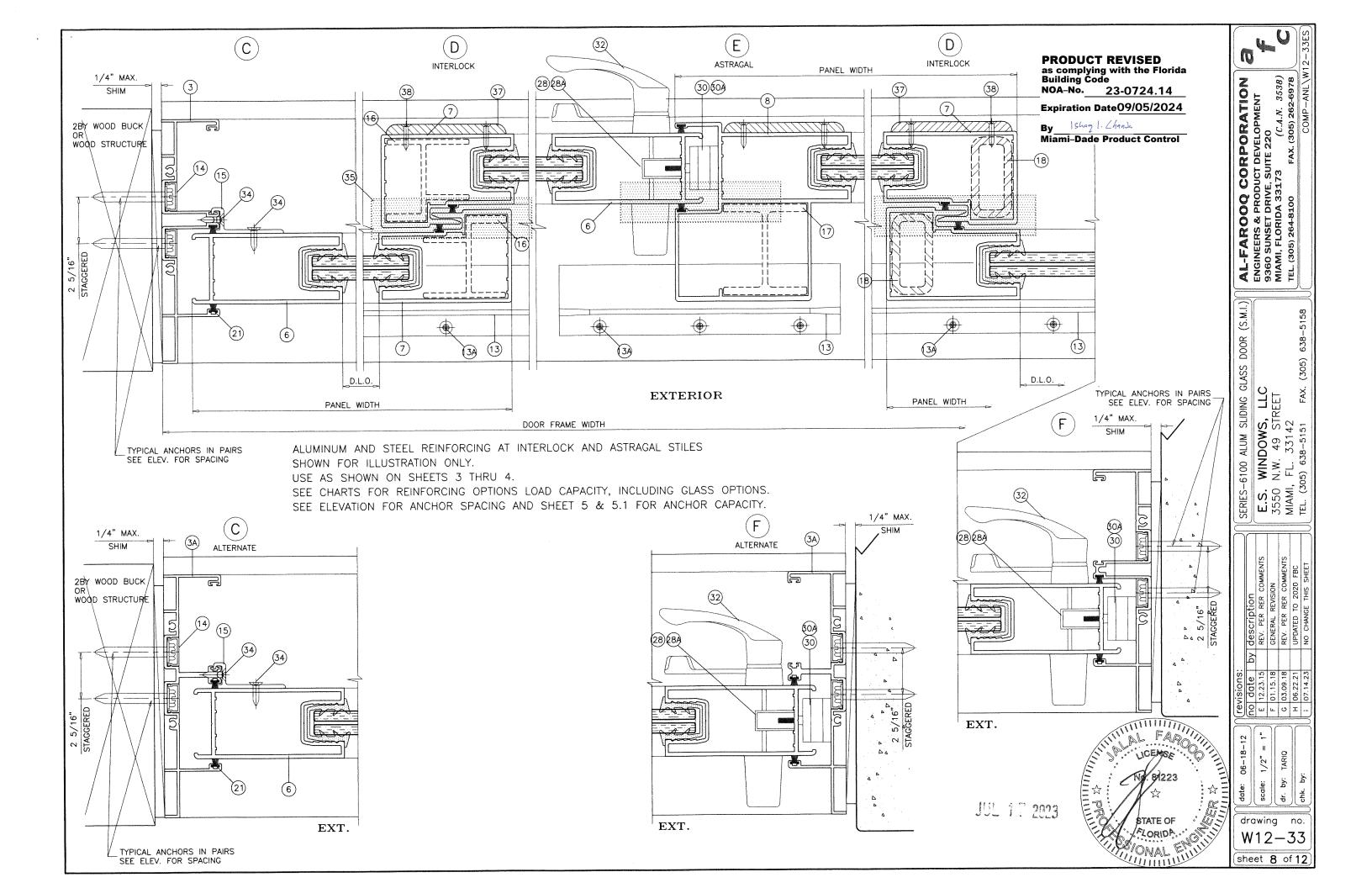
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

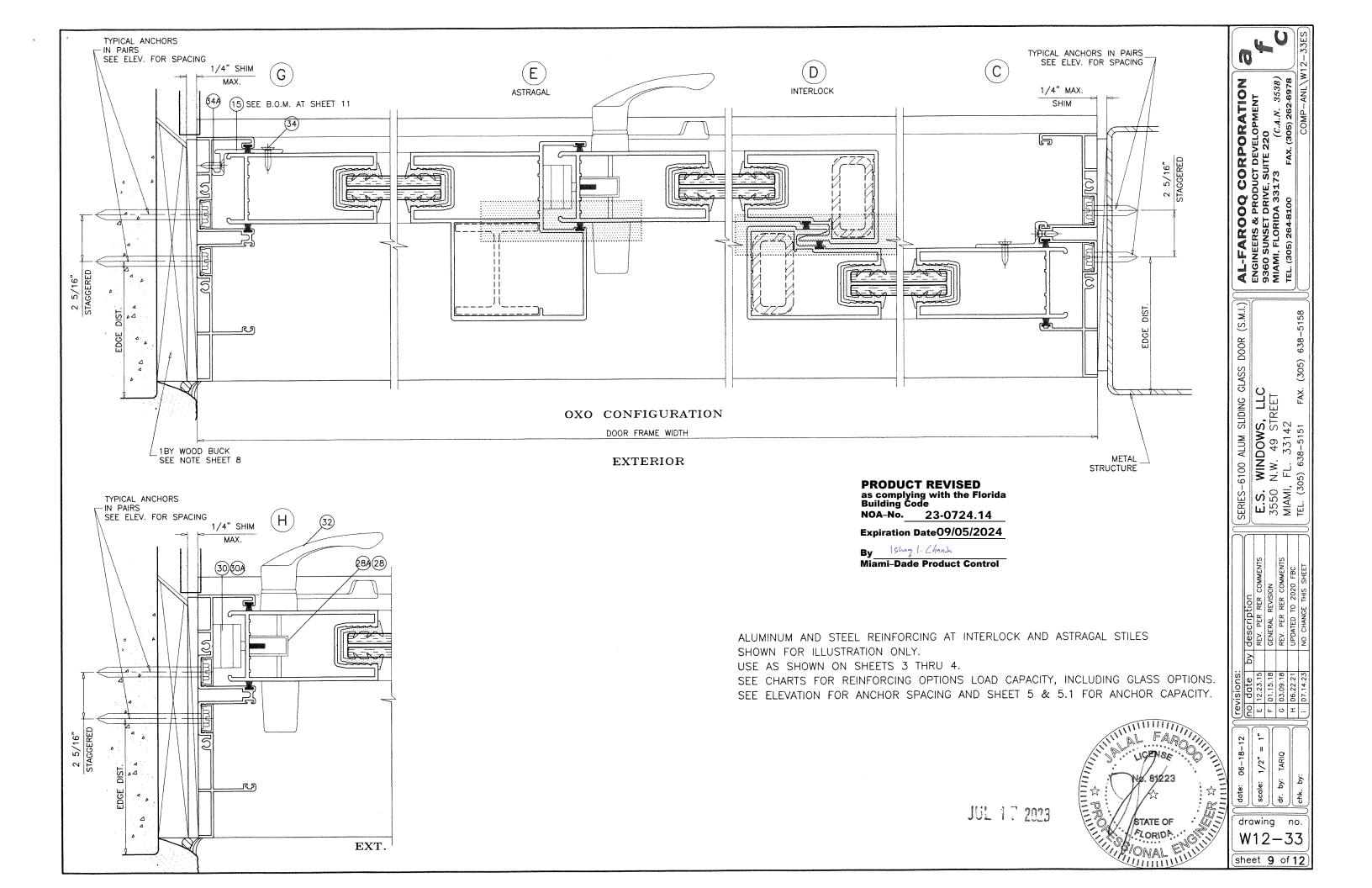
WEEPHOLES:

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









ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES6001	1	FRAME HEAD	6005-T5	_
2	ES6023	1	FRAME SILL - 3-1/2" HIGH	6005-T5	-
3	ES6003	2	FRAME JAMB	6063-T6	_
3A	ES6030	2	ALTERNATE FRAME JAMB	6063-T6	
4	ES-6000-040	2/ PANEL	TOP RAIL	6063-T6	-
5	ES-6000-041	2/ PANEL	BOTTOM RAIL	6063-T6	_
6	ES-6000-042	AS REQD.	LOCK STILE	6063-T6	-
7	ES-6000-043	AS REQD.	INTERLOCK	6063-T6	-
8	ES-6000-044	AS REQD.	FEMALE ASTRAGAL	6063-T6	-
10	27-564	4/ PANEL	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A
11	ES6016	4/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	LOCATED AT PANEL ENDS
12	ES6015	2/ PANEL	FIXED PANEL BOTTOM GUIDE	6063-T6	SECURE W/ (2) #8 X 3/4" FH SMS
13	ES6010	2/ PANEL	RETAINER CLIP, 8" LONG AT HEAD, 7" LONG AT SILL	6005-T5	AT MTG. RAIL HEAD & SILL ENDS
1 3A	#8 X 3/4"	3/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	FH SMS
14	ES6011	2/ JAMB	JAMB SCREW COVER	6063-T5	OPTIONAL
15	ES6014	3/ FIX. PANEL	FIXED PANEL CLIP, 4" LONG, AT 53" O.C.	6063-T6	AT 7" FROM EACH END AND AT MIDSPAN
16	ES6012	AS REQD.	INTERLOCK STIFFENER (LENGTH = PANEL HT. $-2-3/8$ ")	6063-T6	-
17	ES6013	AS REQD.	ASTRAGAL STIFFENER (LENGTH = PANEL HT. $-2-3/8$ ")	6063-T6	
18	1" X 2" X 3/16"	AS REQD.	STEEL TUBE REINFORCING (LENGTH = PANEL HT 2-3/8")	A36 STEEL	TO BE PAINTED
21	W222521K	AS REQD.	STILE & JAMB W'STRIPPING		ULTRAFAB
22	W223221K	AS REQD.	TOP RAIL PILE W'STRIPPING		ULTRAFAB
23	ES6027	AS REQD.	BOTTOM RAIL W'STRIPPING	EPDM	DUROMETER 75±4 SHORE A
24	#10 X 1-1/2" PH SMS	8/ PANEL	PANEL ASSY SCREWS	-	-
25	#10 X 1" PH SMS	2/ CORNER	FRAME ASSY SCREWS		
26		2/ MOV. PANEL	TANDEM ACETAL WHEEL IN METALLIC HOUSING	-	PABOSE
27	1/4-20 X 1-3/4" PH MS	1/ ROLLER	ROLLER INST. SCREWS		
28	2300-10SS		STD. MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	-
 28A	2468T-00		MULTI POINT MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	WITH 2448 TRIM PLATE
29	#10-24 X 3/8" PH MS	2/ LOCK	LOCK INSTALLATION SCREW	ST. STEEL	-
30	ES6017-1	1/ LOCK	LOCK KEEPER (STD. LOCK)	PLATED STEEL	AT 48-1/2" FROM BOTTOM
30A	2447-00	1/ LOCK	LOCK KEEPER (MULTI POINT LOCK)	ST. STEEL	AT 48-1/2" FROM BOTTOM
31	#10 X 5/8" PH SMS B	2/ LOCK	LOCK KEEPER MOUNT. SCREW (STD. LOCK)	ST. STEEL	-
31A	#8 X 3/4" FH SMS	1	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	#12 X 3/4"	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	FH SMS
35		AS REQD.	1"X4" LONG SELF ADHESIVE PILE PAD	WOOLPILE	AT HEAD AND SILL
37	ES6019	AS REQD.	RESTRAINING PLATE	NYLON	AT TOP & BOTT. INTERLOCKS & ASTRAGAL
38	#8 X 3/4" FH SMS	2/ PLATE	RESTRAINING PLATE FASTENER		

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

