



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

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

E.S. Windows, LLC
3550 NW 49th 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 “ES-6100” Aluminum Horizontal Sliding Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **24-66D**, titled “Series-6100 Alum Sliding Glass Window (S.M.I)”, sheets 1, 2, 3, 3.1, 3.2, 4, 5, 5.1, 6 through 12 of 12, dated 09/30/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, model/series, and 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.

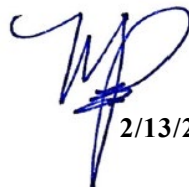
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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

The submitted documentation was reviewed by **Manuel Perez, P.E.**




 2/13/25

NOA No. 25-0128.04
Expiration Date: September 05, 2029
Approval Date: February 20, 2025
 Page 1

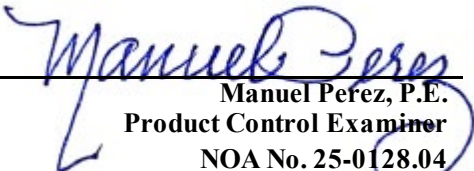
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 07-0828.08)
2. Drawing No. **24-66D**, titled "Series-6100 Alum Sliding Glass Window (S.M.I)", sheets 1, 2, 3, 3.1, 3.2, 4, 5, 5.1 and 6 through 12 of 12, dated 09/30/24, prepared by Al-Farooq Corporation, 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, and 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 09/19/19, signed and sealed by Constantin Bortes, P.E.
(Submitted under NOA No. 21-0628.15)
2. 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, and 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.
(Submitted under NOA No. 16-1130.04)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC, and 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.
(Submitted under NOA No. 13-1007.03)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-0128.04
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B. TESTS (CONTINUED)

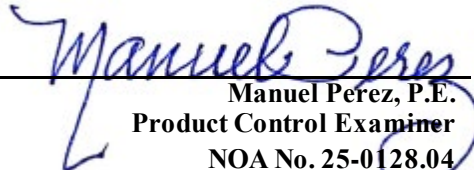
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC, and TAS 202-94
5) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
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**, dated 10/15/10 and **FTL-5669**, signed and sealed by Jorge A. Causo, P.E. and Michael Wenzel, P.E. respectively.
(Submitted under NOA No. 09-1217.02)
5. Test report No. **FTL-5076** has been revised by an addendum letter dated 07/10/07, issued by Fenestration Testing Lab, signed & sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 07-0828.08)
6. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum SGD, prepared by Fenestration Testing Laboratories, Test Reports No. **FTL-5076**, dated 02/22/07, **FTL-5157**, dated 02/14/07 and **FTL-5158**, dated 02/13/07, all signed and sealed by Michael Wenzel, P.E.
(Submitted under NOA No. 07-0411.12)

C. CALCULATIONS

1. Anchor verification calculations complying with FBC 8th Edition (2023), prepared by Al Farooq Corporation, dated October 10, 2024, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09**
(Submitted under NOA No. 21-0628.15)

D. QUALITY ASSURANCE

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


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E. MATERIAL CERTIFICATIONS

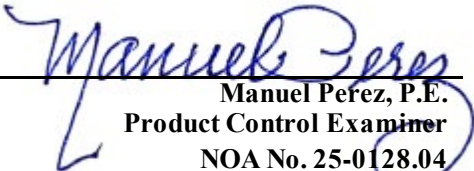
1. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 03/21/24, expiring on 07/08/29.
2. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28

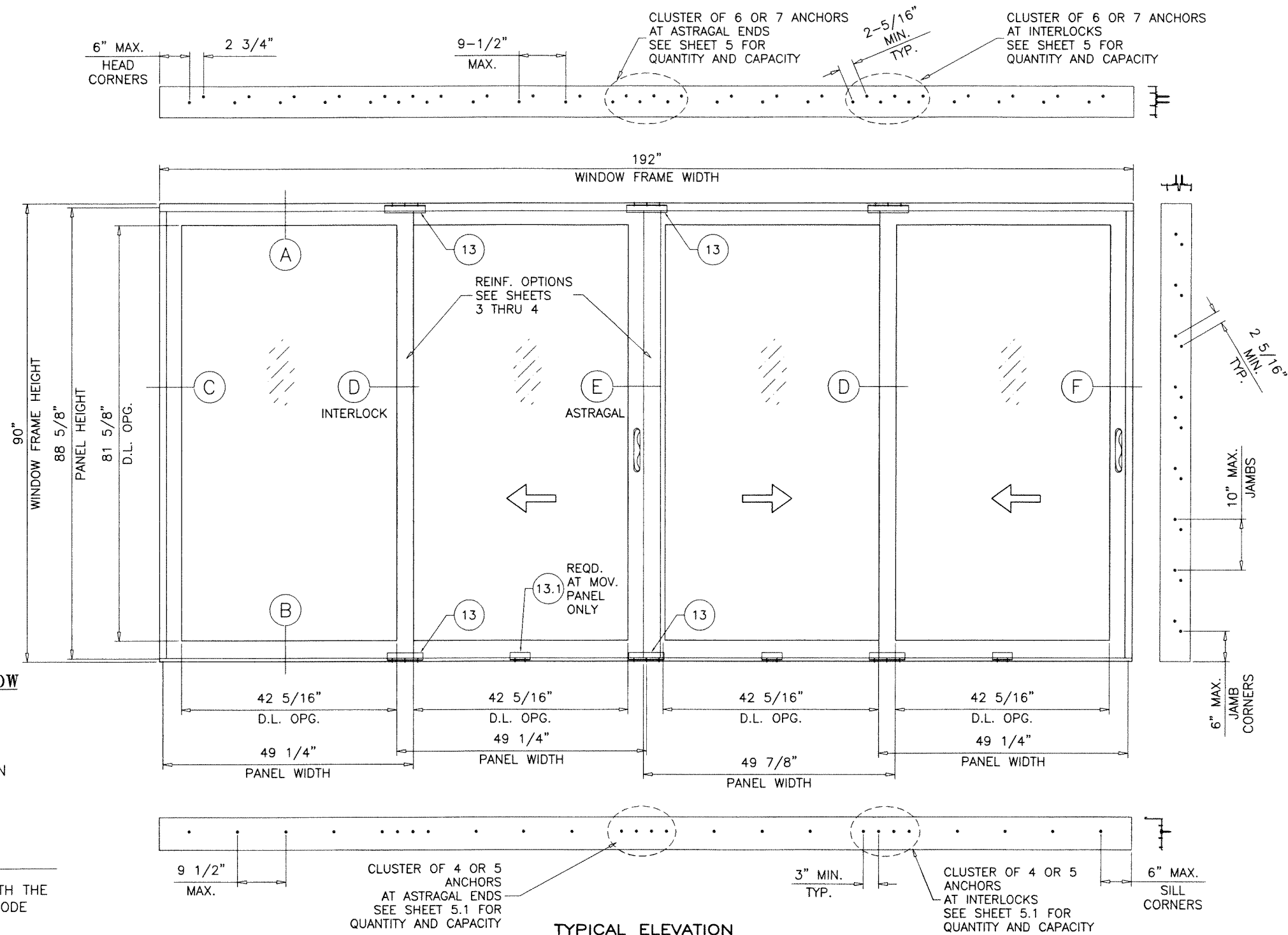
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, and of no financial interest, dated October 7, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Distributor Agreement between ES Windows, LLC Miami, Florida (distributor) and Energia Solar, S.A., Barranquilla, Columbia, S.A. (manufacturer), dated 08/01/18, signed by Ms. Carla Garcia (MGR) and Ms. Evelyn Deas (MGR) respectively. (original copy in various ES approved NOA(s) files).
(Submitted under NOA No. 24-0312.02)

G. OTHERS

1. Notice of Acceptance No. **24-0312.02**, issued to E.S. Windows, LLC for their Series “6100” Aluminum Sliding Glass Doors (Dry Glazed) w/ reinforcements - S.M.I., approved on 05/09/24 and expiring on 09/05/29.


Manuel Perez, P.E.
Product Control Examiner
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DAYLITE OPENINGS:
 D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
 D.L.O. WIDTH = PANEL WIDTH - 6.937"
 PANEL HEIGHT = WINDOW FRAME HEIGHT - 1.375"

SERIES-6100 ALUMINUM SLIDING GLASS WINDOW

SEE SHEETS 3 THRU 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE GLASS TYPE AND REINFORCING OPTION.

USING CHART ON SHEETS 5 & 5.1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH 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 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

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

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

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.
 VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

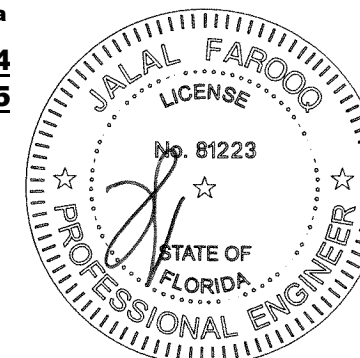
**LAMINATED GLASS
 DRY GLAZED**

PRODUCT APPROVED
 As complying with the Florida Building Code
 NOA-No. **25-0128.04**

Approval Date: **02/20/2025**

By: *Manuel Ferrer*
 Miami-Dade Product Control

OCT 18 2024



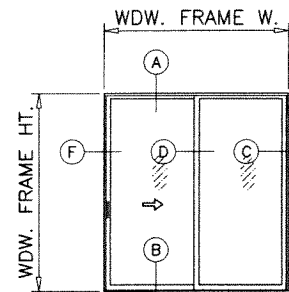
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL 24-66D-ES

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

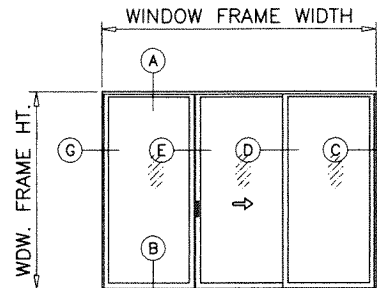
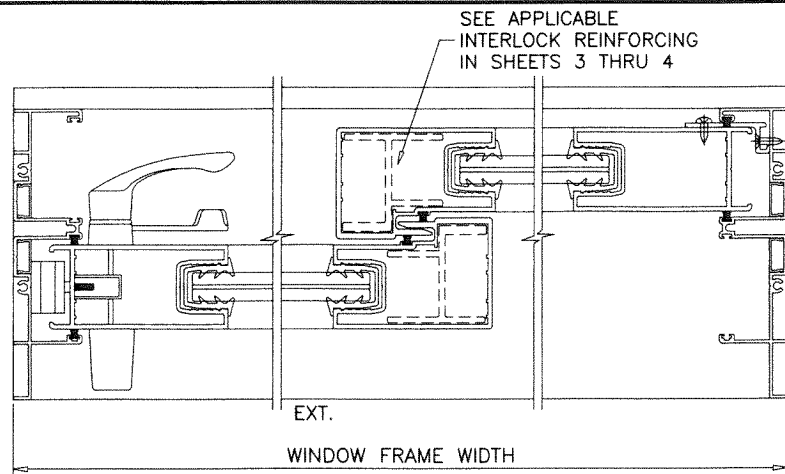
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 chk. by:

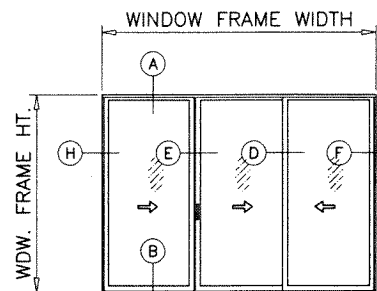
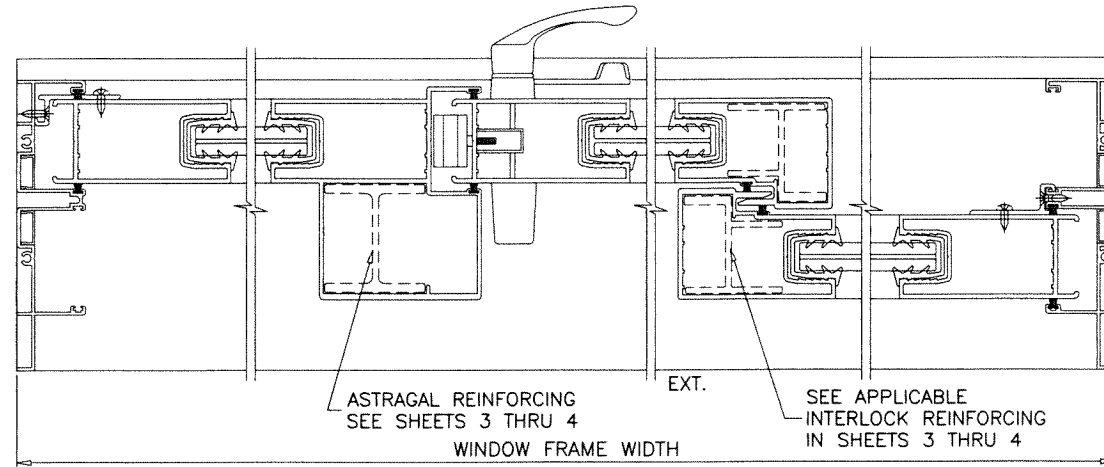
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 sheet 1 of 12



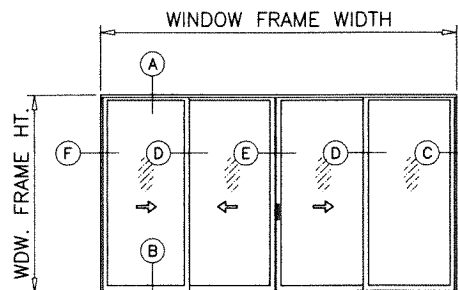
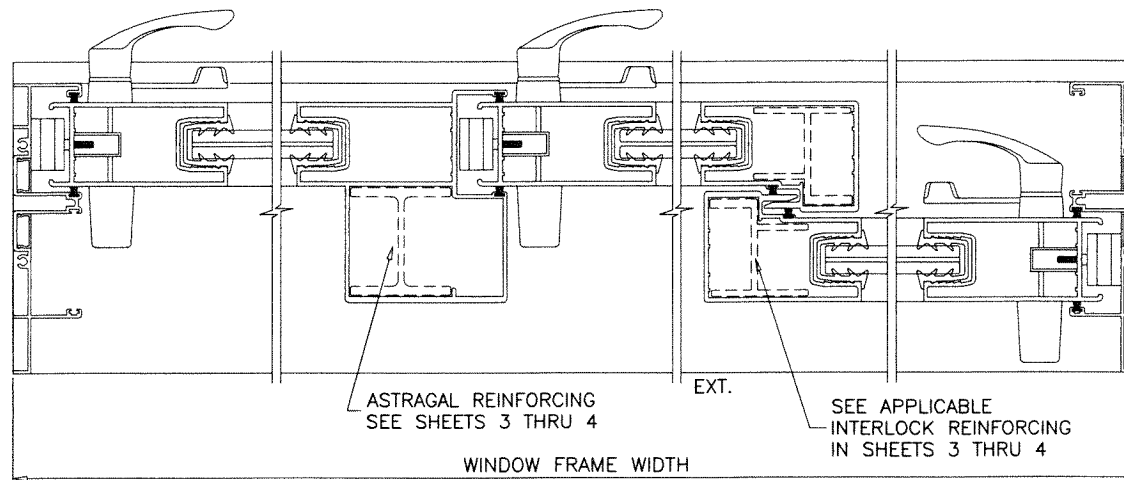
XO (SHOWN)
OX
XX



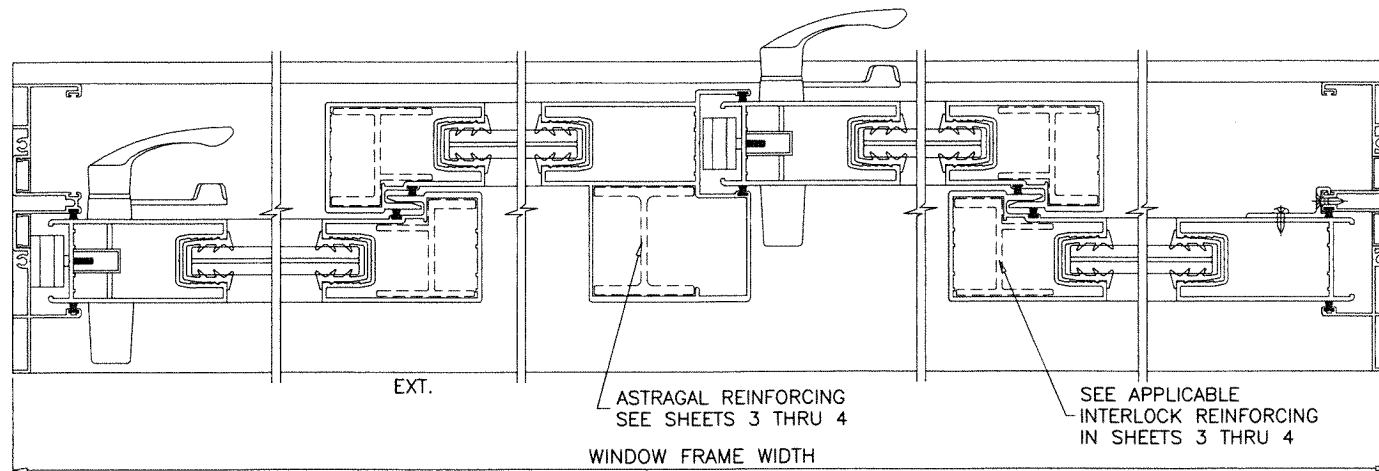
OXO (SHOWN)
XXX



XXX (SHOWN)



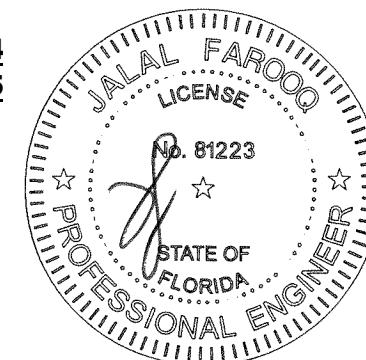
XXXX (SHOWN)
XXXX
OXXO



NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEETS 3 THRU 4 AND ANCHOR INSTALLATION IN
SHEETS 5 & 5.1.

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. **25-0128.04**
Approval Date: **02/20/2025**
By: *Manuel Ferrer*
Miami-Dade Product Control

OCT 18 2024



APPROVED CONFIGURATIONS

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

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

REVISIONS:
no. date by description

date: 09-30-24
scale: -
dr. by: TARIQ
chk. by:

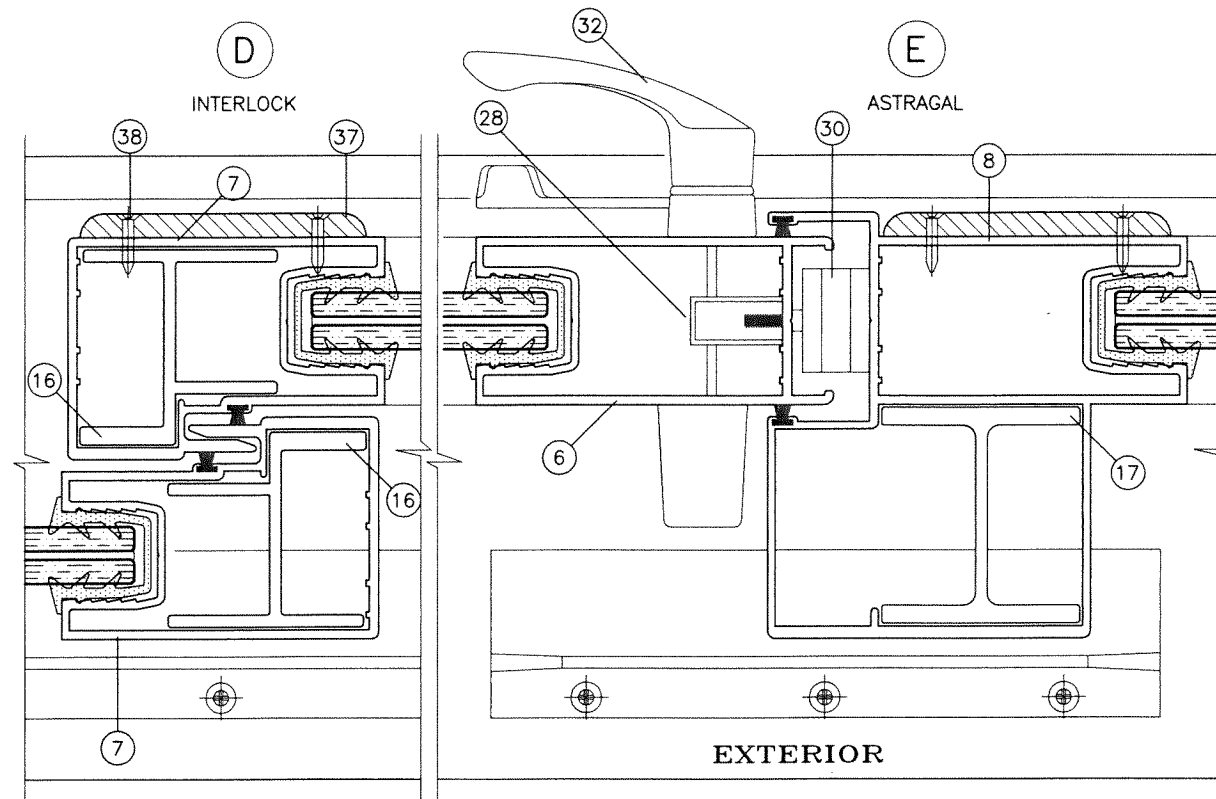
drawing no.
24-66D

sheet 2 of 12

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

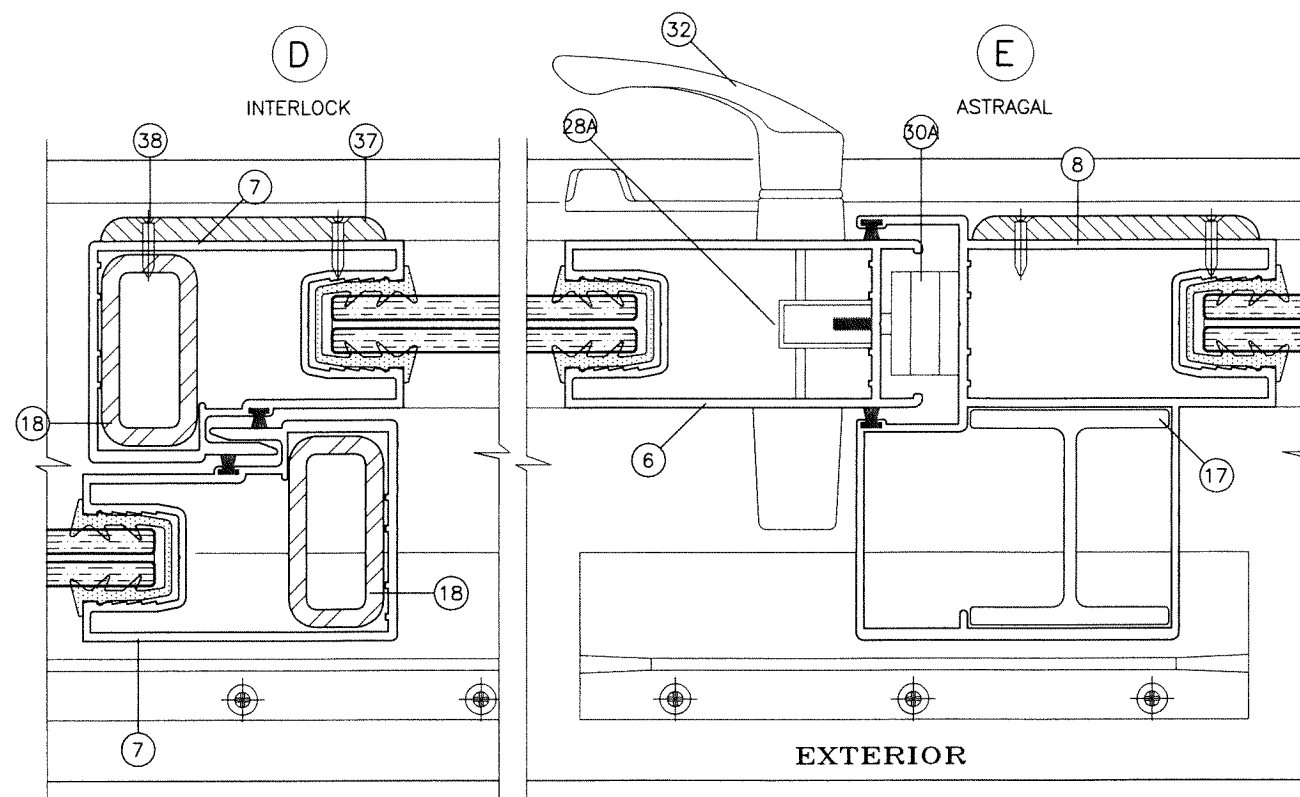


COMP-ANL\24-66D-ES



REINFORCING OPTION #1

ALUMINUM REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL



REINFORCING OPTION #2

STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

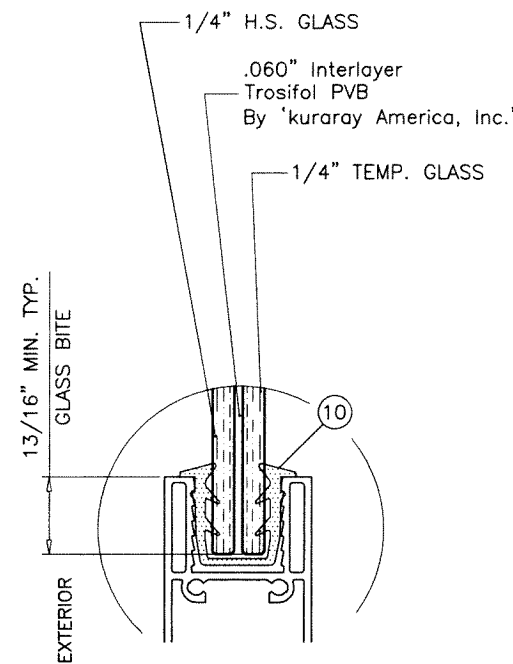
SEE CHART ON THIS SHEET FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

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.

DESIGN LOAD CAPACITY - PSF PVB LAMINATED GLASS TYPE 'A' ALL CONFIGURATIONS SHOWN ON SHEET 2					
PANEL WIDTH NOMINAL INCHES	WINDOW FRAME HEIGHT INCHES	REINF. OPTION #1		REINF. OPTION #2	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	140.0	85.0	110.0
40		85.0	140.0	85.0	110.0
44		85.0	140.0	85.0	110.0
48		85.0	140.0	85.0	110.0
50		85.0	134.4	81.6	105.6
53		81.6	126.8	77.0	99.6
56		72.9	120.0	72.9	94.3
60	68.0	112.0	68.0	88.0	
36	90	85.0	140.0	85.0	110.0
40		85.0	136.4	85.0	110.0
44		85.0	127.4	85.0	110.0
48		85.0	120.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
56		85.0	85.7	72.9	94.3
60	80.0	80.0	68.0	88.0	

NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH / NUMBER OF PANELS



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

PRODUCT APPROVED
As complying with the Florida
Building Code

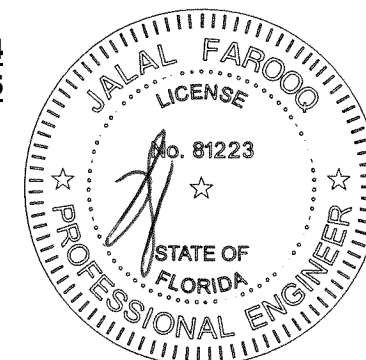
NOA-No. **25-0128.04**

Approval Date: **02/20/2025**

By: *Manuel Ferrer*

Miami-Dade Product Control

OCT 18 2024



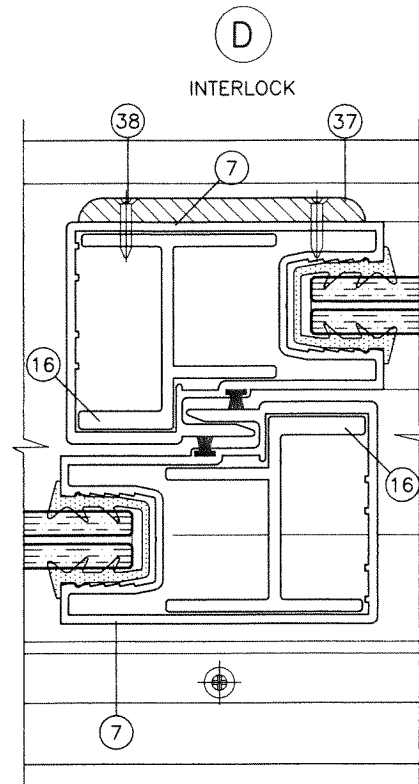
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AL-FAROOQ CORPORATION
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no	date	description

date: 09-30-24
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
24-66D
sheet 3 of 12

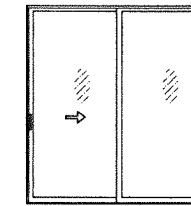


REINFORCING OPTION #1
ALUMINUM REINFORCING AT INTERLOCK

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.

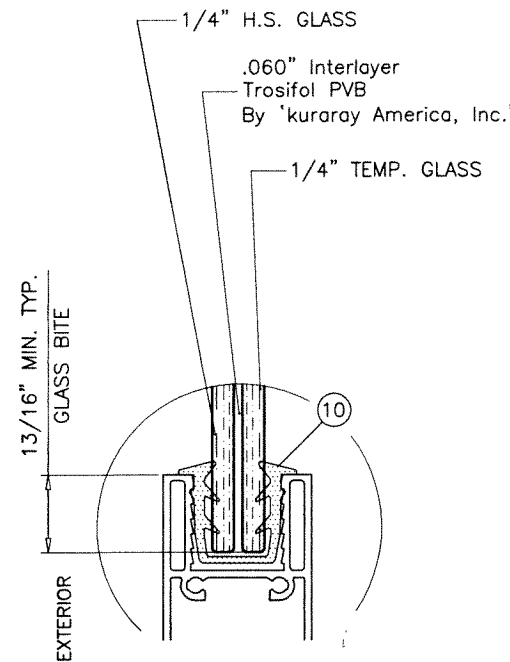
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART, HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



'XO' OR 'OX' DOORS ONLY

DESIGN LOAD CAPACITY - PSF PVB LAMINATED GLASS TYPE 'A' 'XO' OR 'OX' CONFIGURATIONS ONLY			
PANEL WIDTH NOMINAL INCHES	WINDOW FRAME HEIGHT INCHES	REINF. OPTION #1	
		EXT. (+)	INT. (-)
36	82	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
53		99.6	99.6
56	94.3	94.3	
60	88.0	88.0	
36	84	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
53		99.6	99.6
56	94.3	94.3	
60	88.0	88.0	
36	90	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
53		99.6	99.6
56	94.3	94.3	

$$\text{NOMINAL PANEL WIDTH} = \frac{\text{WINDOW FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

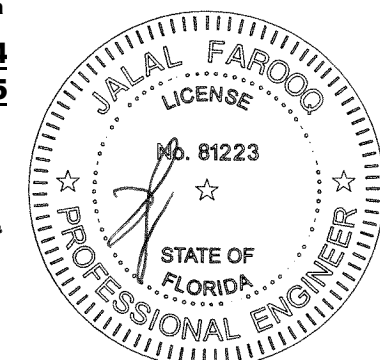


GLASS TYPE 'A' (DRY GLAZED)
GLAZING DETAIL

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

PRODUCT APPROVED
As complying with the Florida
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Approval Date: **02/20/2025**
By: *Manuel Torres*
Miami-Dade Product Control

OCT 18 2024



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

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

REVISIONS:
no. date by description

date: 09-30-24
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
24-66D

sheet **3.1** of **12**

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

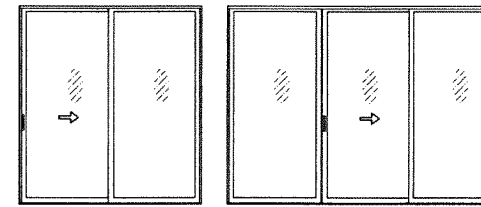
COMP-ANL\24-66D-ES

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.

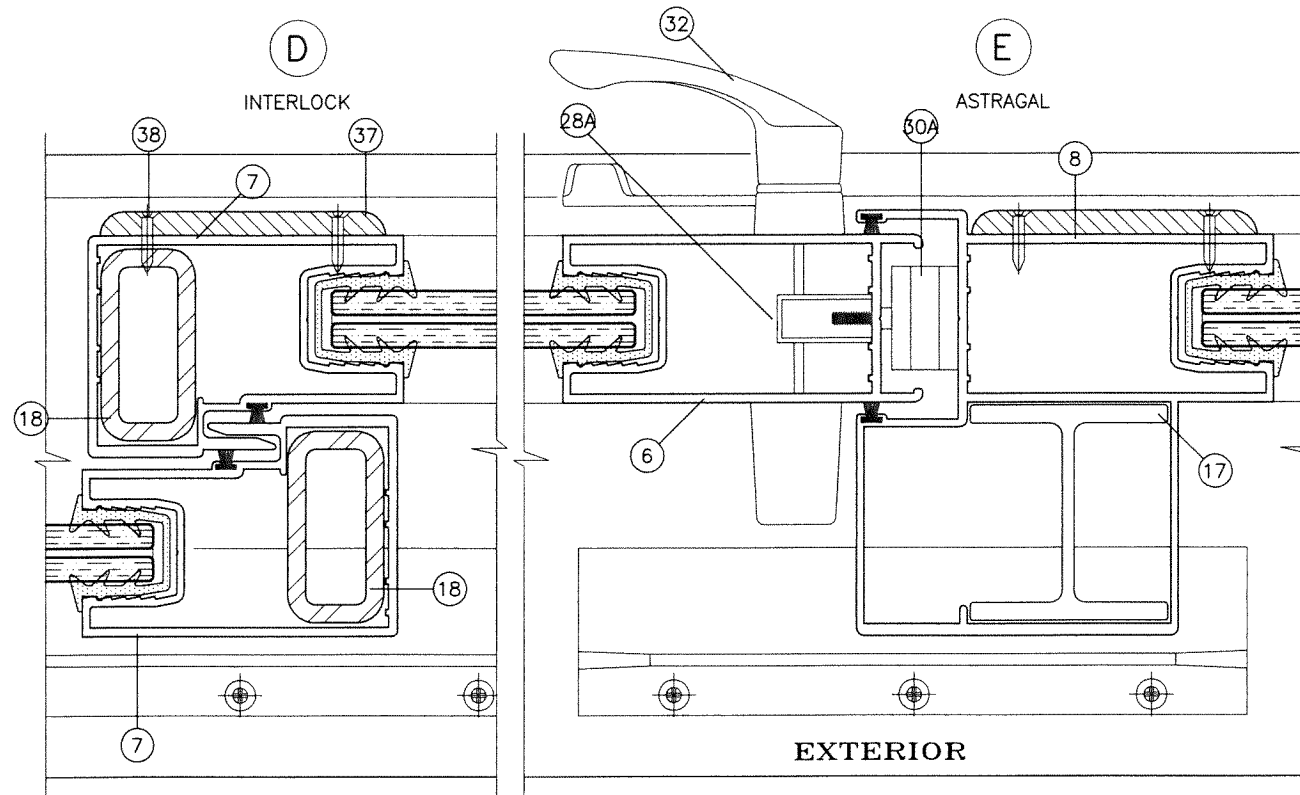
DESIGN LOAD CAPACITY - PSF PVB LAMINATED GLASS TYPE 'A' 'XO', 'OX' OR 'OXO' CONFIGURATIONS ONLY			
PANEL WIDTH NOMINAL INCHES	WINDOW FRAME HEIGHT INCHES	REINF. OPTION #2	
		EXT. (+)	INT. (-)
36	82	85.0	123.0
40		85.0	123.0
44		85.0	115.7
48		85.0	110.0
50		81.6	105.6
53		77.0	99.6
56	72.9	94.3	
60	68.0	88.0	
36	90	85.0	123.0
40		85.0	123.0
44		85.0	115.7
48		85.0	110.0
50		81.6	105.6
53		77.0	99.6
56	72.9	94.3	
60	68.0	88.0	



XO (SHOWN)
OX

OXO (SHOWN)

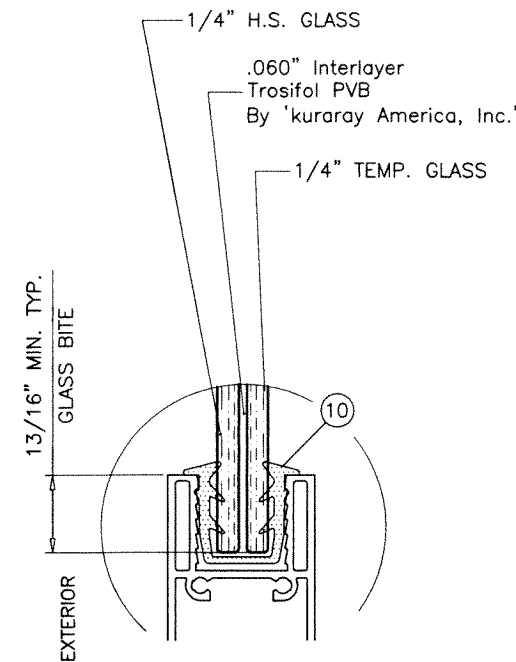
APPROVED CONFIGURATIONS



REINFORCING OPTION #2

STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

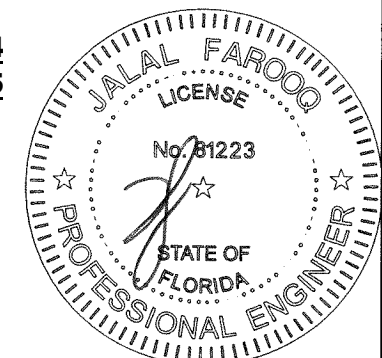
NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH / NUMBER OF PANELS



GLASS TYPE 'A' (DRY GLAZED)
GLAZING DETAIL

PRODUCT APPROVED
As complying with the Florida Building Code
NOA-No. **25-0128.04**
Approval Date: **02/20/2025**
By: *Manuel Ferrer*
Miami-Dade Product Control

OCT 18 2024

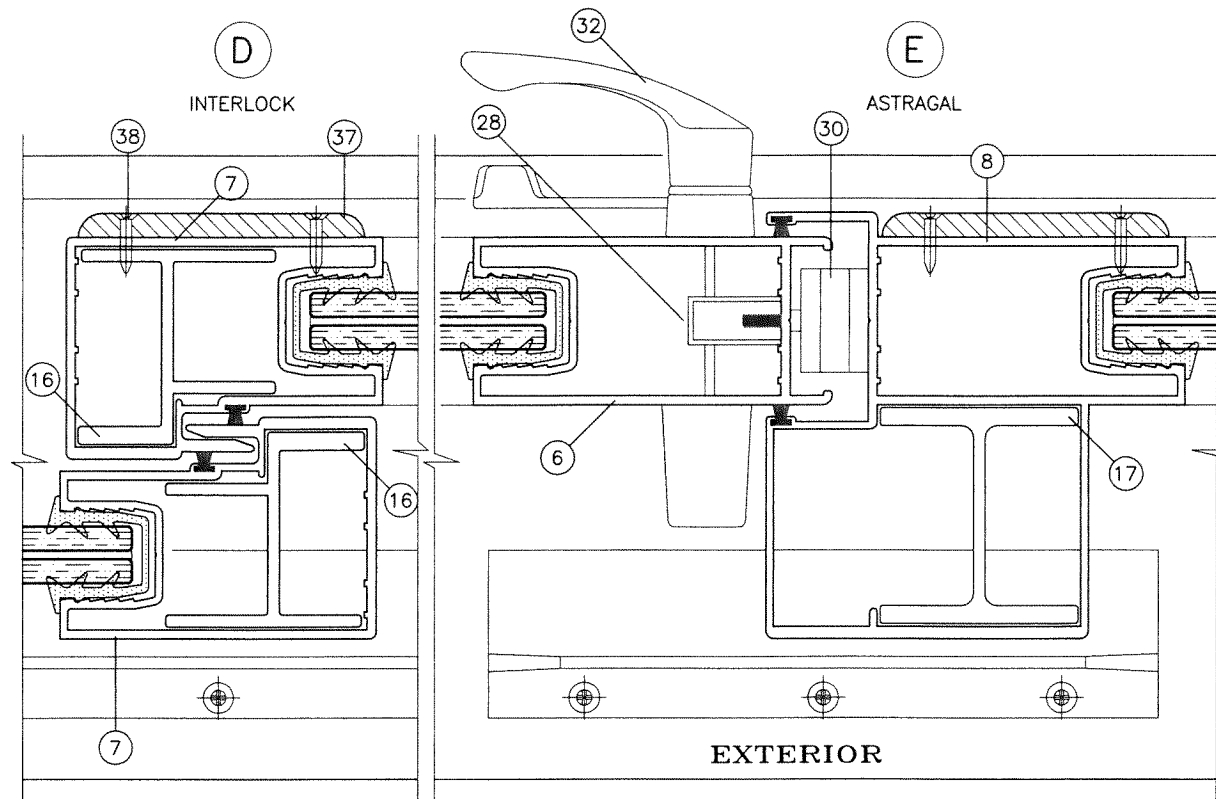


NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173 FAX. (305) 262-6978
TEL. (305) 264-8100 COMP-ANL 24-66D-ES

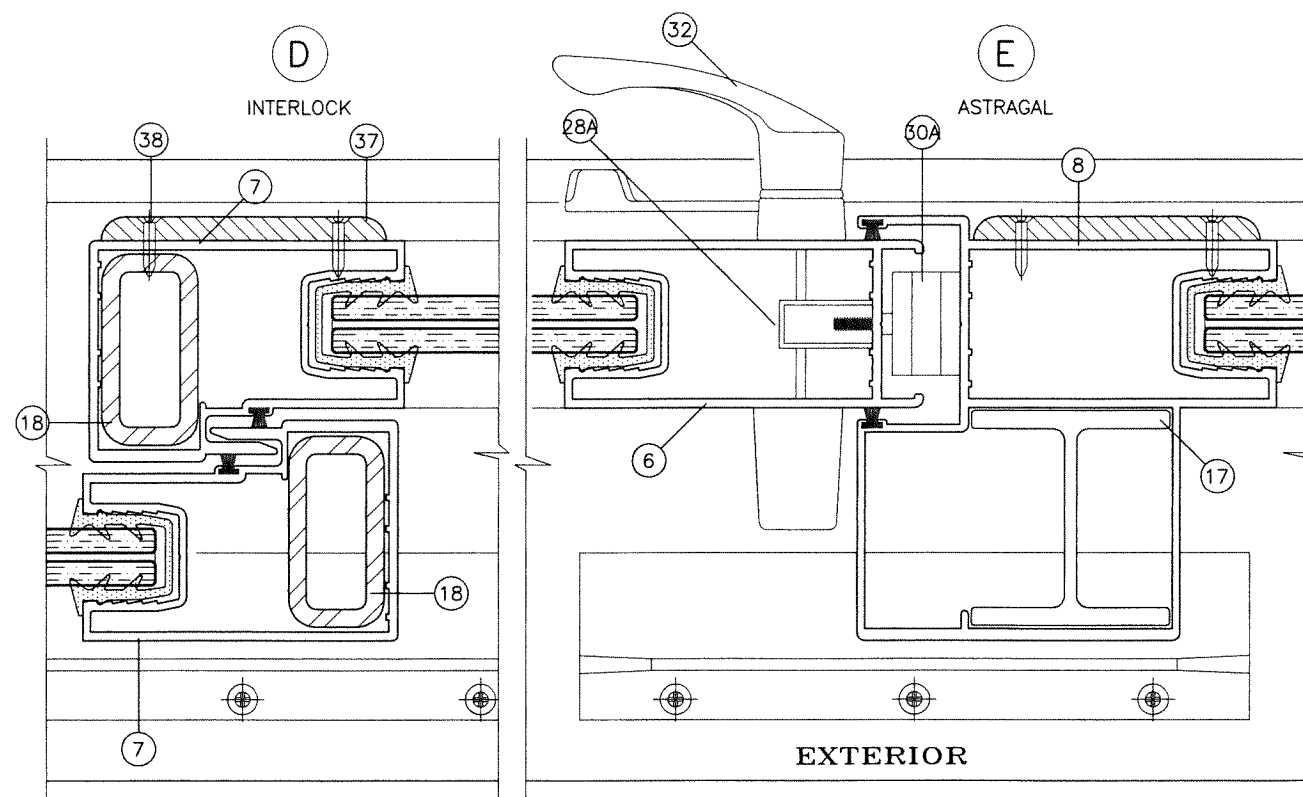
SERIES-6100 ALUM SLIDING GLASS WINDOW (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
date:	09-30-24	scale:	1/2" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	24-66D			
sheet	3.2 of 12			



REINFORCING OPTION #1

ALUMINUM REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL



REINFORCING OPTION #2

STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

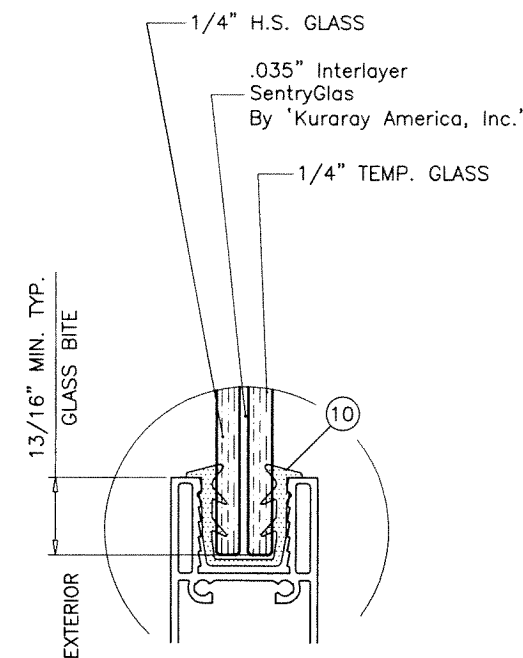
SEE CHART ON THIS SHEET FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

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.

DESIGN LOAD CAPACITY - PSF SENTRYGLAS LAMINATED GLASS TYPE 'A1' ALL CONFIGURATIONS SHOWN ON SHEET 2					
PANEL WIDTH NOMINAL INCHES	WINDOW FRAME HEIGHT INCHES	REINF. OPTION #1		REINF. OPTION #2	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	100.0	85.0	140.0
40		85.0	100.0	85.0	140.0
44		85.0	100.0	85.0	140.0
48		85.0	100.0	85.0	140.0
50		85.0	96.0	85.0	134.4
53		85.0	90.5	85.0	126.8
56		85.0	85.7	85.0	120.0
60		80.0	80.0	85.0	112.0
36	90	85.0	100.0	85.0	140.0
40		85.0	100.0	85.0	140.0
44		85.0	100.0	85.0	140.0
48		85.0	100.0	85.0	137.3
50		85.0	96.0	85.0	105.6
53		85.0	90.5	85.0	99.6
56		85.0	85.7	85.0	94.3
60		85.0	80.0	85.0	88.0

$$\text{NOMINAL PANEL WIDTH} = \frac{\text{WINDOW FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

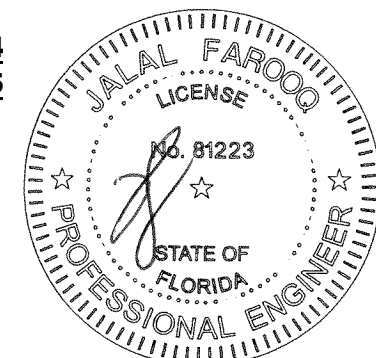


GLASS TYPE 'A1' (DRY GLAZED)
GLAZING DETAIL

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

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. **25-0128.04**
Approval Date: **02/20/2025**
By: *Manuel Ferrer*
Miami-Dade Product Control

OCT 18 2024



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AL-FAROOQ CORPORATION
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dr. by:	TARIQ	chk. by:		
drawing no.	24-66D			
sheet	4 of 12			

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

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

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

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

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

AT SILL

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

AT JAMBS

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

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

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

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

ANCHOR EDGE DISTANCES

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

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

HEAD ANCHOR LOAD CAPACITY - PSF					
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	ANCHOR TYPE 'A'		ANCHOR 'B'	ANCHOR 'C'
		6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0
40		140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0
44		140.0	140.0	140.0	140.0
48		140.0	140.0	140.0	140.0
50		140.0	140.0	140.0	140.0
53		140.0	140.0	140.0	140.0
56		134.4	140.0	140.0	140.0
60		132.4	140.0	140.0	140.0
30	84	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0
40		140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0
44		140.0	140.0	140.0	140.0
48		140.0	140.0	140.0	140.0
50		140.0	140.0	140.0	140.0
53		135.5	140.0	140.0	140.0
56		131.7	140.0	140.0	140.0
60		127.5	140.0	140.0	140.0
30	90	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0
40		140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0
44		138.0	140.0	140.0	140.0
48		130.4	140.0	140.0	140.0
50		127.1	140.0	140.0	140.0
53		122.7	140.0	140.0	140.0
56		118.9	138.8	140.0	140.0
60		114.7	133.8	140.0	140.0

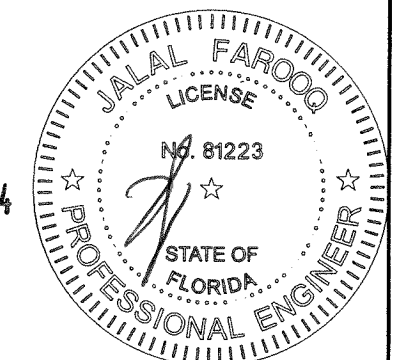
NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH / NUMBER OF PANELS

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

SEE CHART ABOVE 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 APPROVED
 As complying with the Florida Building Code
 NOA-No. **25-0128.04** **OCT 18 2024**
 Approval Date: **02/20/2025**
 By: *Manuel Perez*
 Miami-Dade Product Control



af c

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
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 COMP-ANL\24-66D-ES

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

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

revisions:	no	date	by	description

date: 09-30-24
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no. **24-66D**
 sheet 5 of 12

SILL ANCHOR LOAD CAPACITY - PSF			
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	ANCHOR TYPE 'B'	
		4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	140.0	140.0
36		140.0	140.0
40		140.0	140.0
42		140.0	140.0
44		140.0	140.0
48		140.0	140.0
50		140.0	140.0
53		140.0	140.0
56	140.0	140.0	
60	140.0	140.0	
30	84	140.0	140.0
36		140.0	140.0
40		140.0	140.0
42		140.0	140.0
44		140.0	140.0
48		140.0	140.0
50		140.0	140.0
53		140.0	140.0
56	140.0	140.0	
60	138.7	140.0	
30	90	140.0	140.0
36		140.0	140.0
40		140.0	140.0
42		140.0	140.0
44		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	

$$\text{NOMINAL PANEL WIDTH} = \frac{\text{WINDOW FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

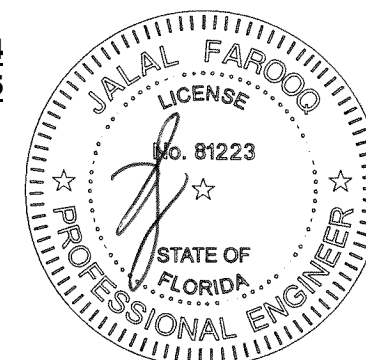
SEE CHART ON SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

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.

PRODUCT APPROVED
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Approval Date: **02/20/2025**
By: *Manuel Feroz*
Miami-Dade Product Control

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3550 N.W. 49 STREET
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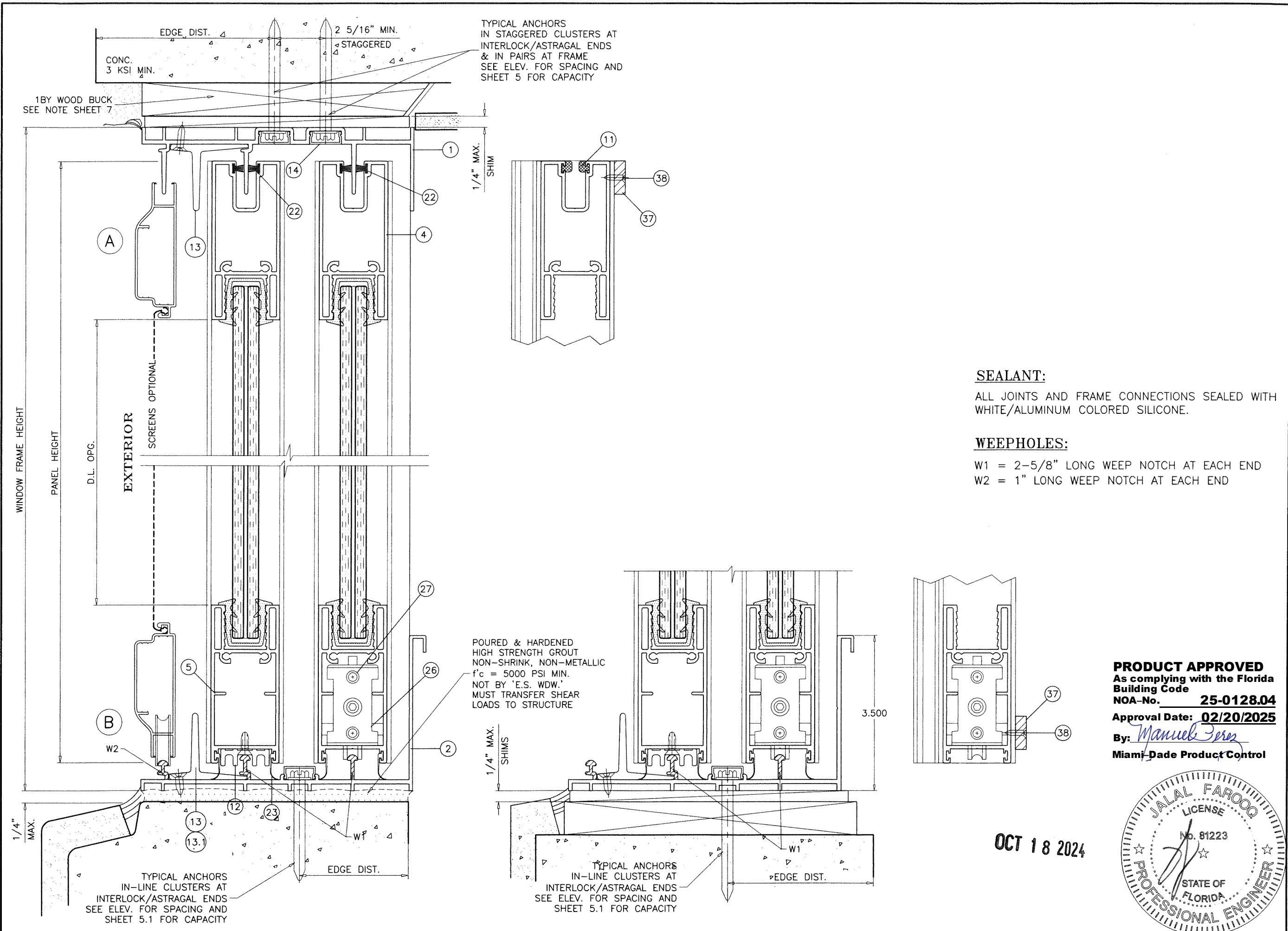
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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no	date	by	description

date: 09-30-24
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
24-66D
sheet 5.1 of 12

COMP-ANL\24-66D-ES



SEALANT:

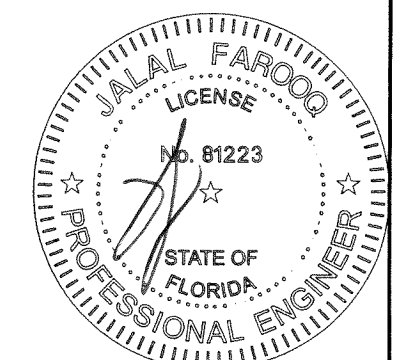
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:

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

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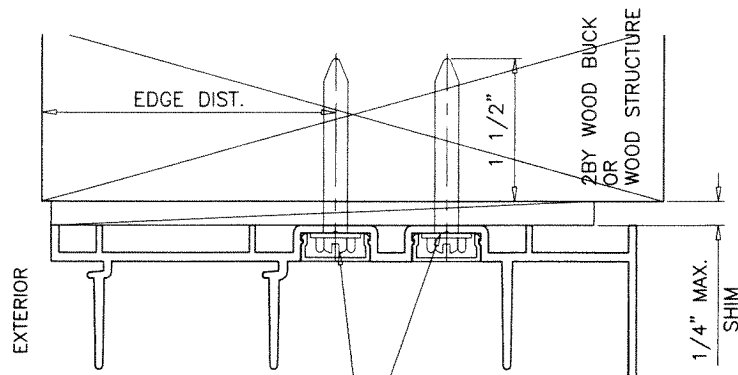
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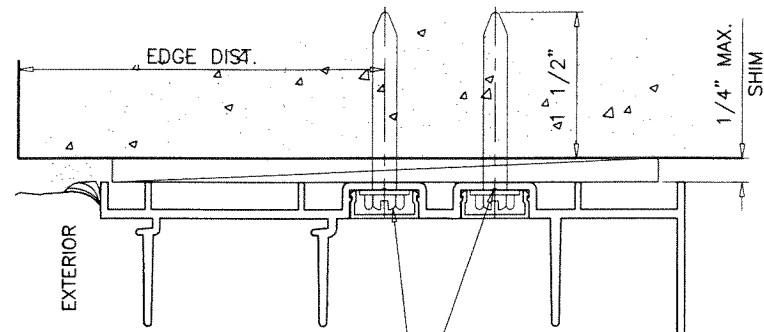
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 dr. by: TARIO
 chk. by:

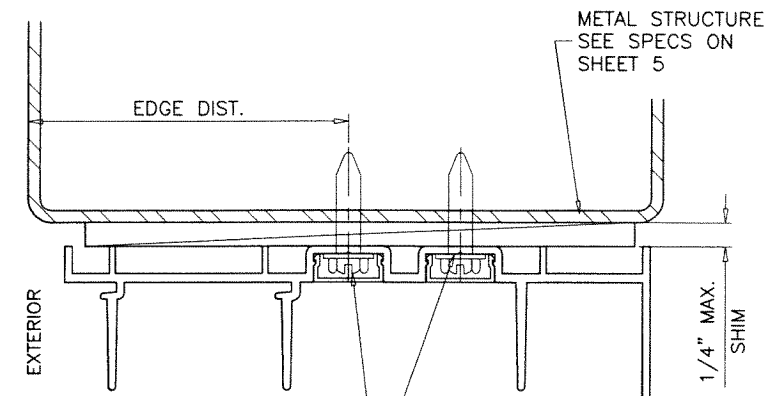
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 sheet 6 of 12



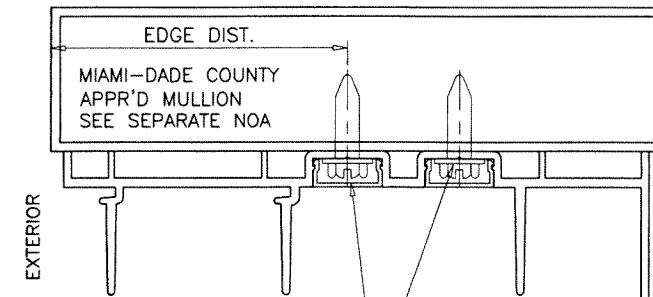
TYPICAL ANCHORS
IN STAGGERED CLUSTERS AT
INTERLOCK/ASTRAGAL ENDS
& IN PAIRS AT FRAME
SEE ELEV. FOR SPACING AND
SHEET 5 FOR CAPACITY



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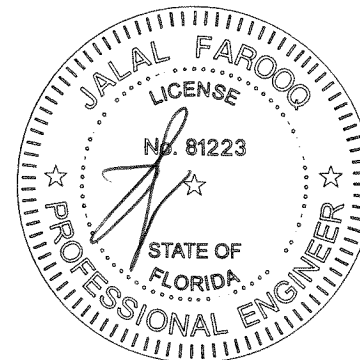
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TYPICAL ANCHORS
IN STAGGERED CLUSTERS AT
INTERLOCK/ASTRAGAL ENDS
& IN PAIRS AT FRAME
SEE ELEV. FOR SPACING AND
SHEET 5 FOR CAPACITY

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

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. **25-0128.04**
Approval Date: **02/20/2025**
By: *Manuel Feres*
Miami-Dade Product Control



OCT 18 2024

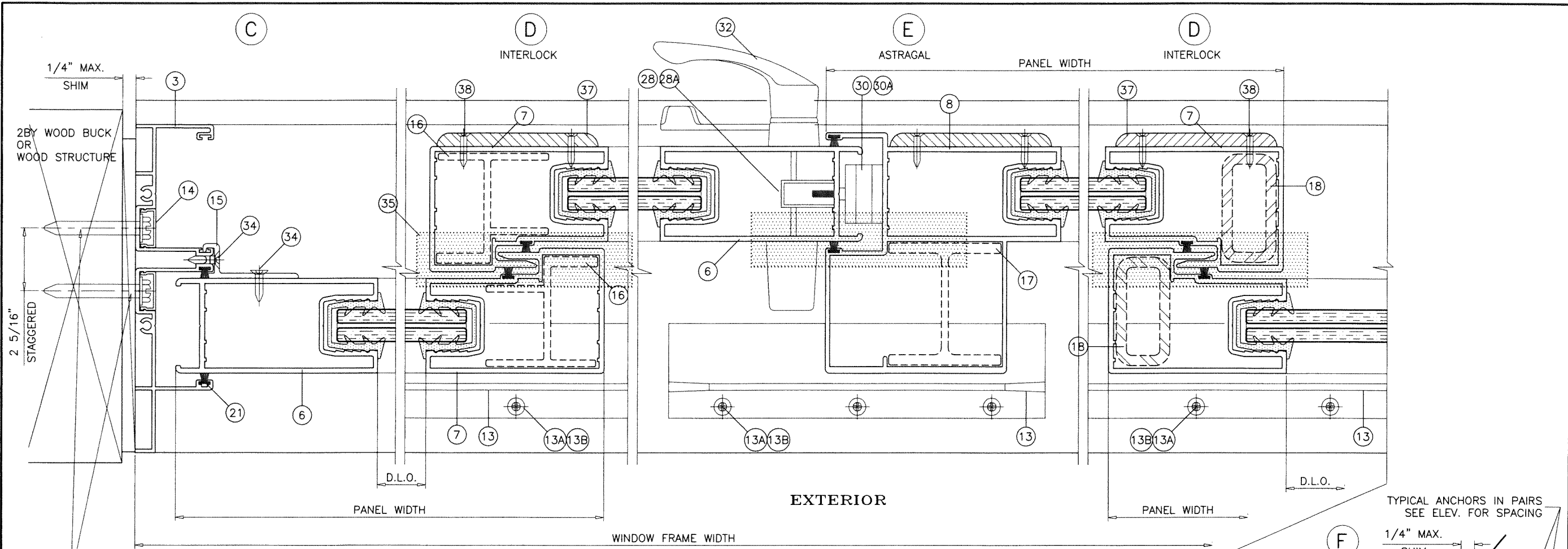
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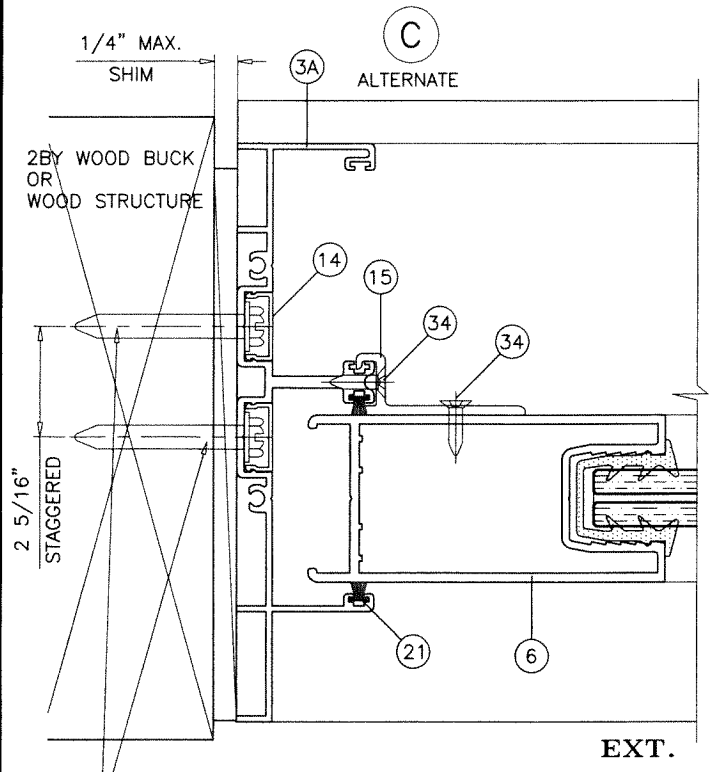
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sheet 7 of 12

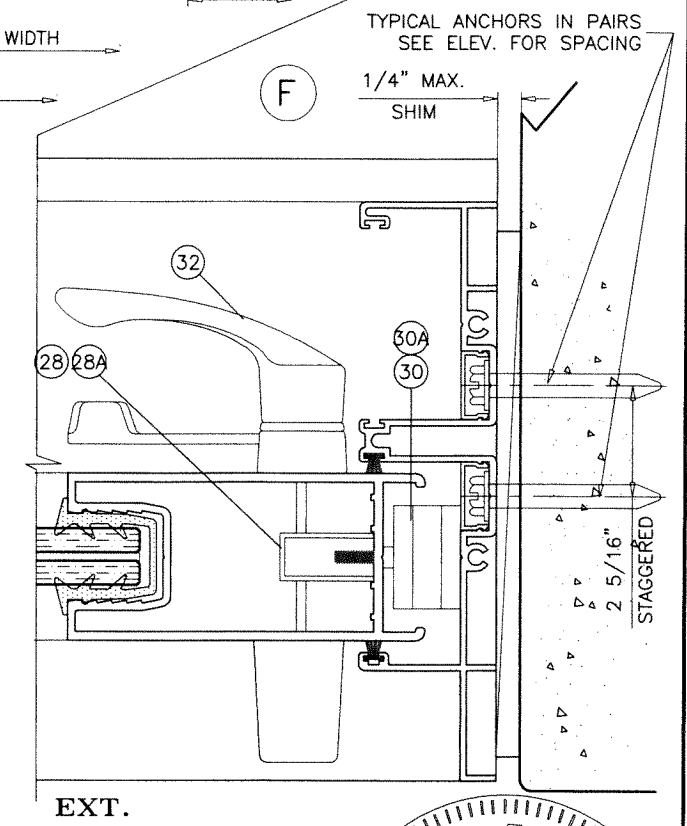
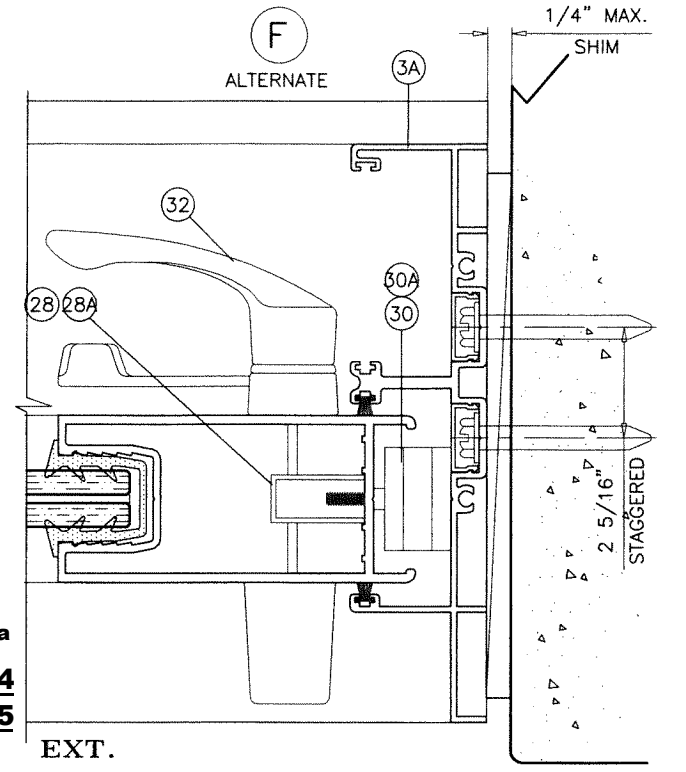


TYPICAL ANCHORS IN PAIRS
SEE ELEV. FOR SPACING

ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL STILES
SHOWN FOR ILLUSTRATION ONLY.
USE AS SHOWN ON SHEETS 3 THRU 4.
SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
SEE ELEVATION FOR ANCHOR SPACING AND SHEET 5 & 5.1 FOR ANCHOR CAPACITY.

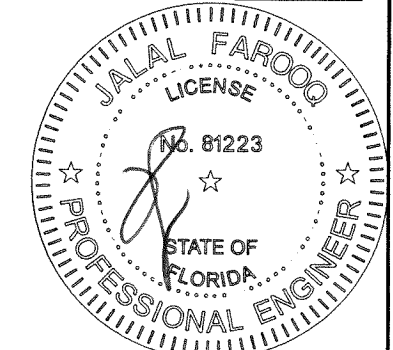


TYPICAL ANCHORS IN PAIRS
SEE ELEV. FOR SPACING



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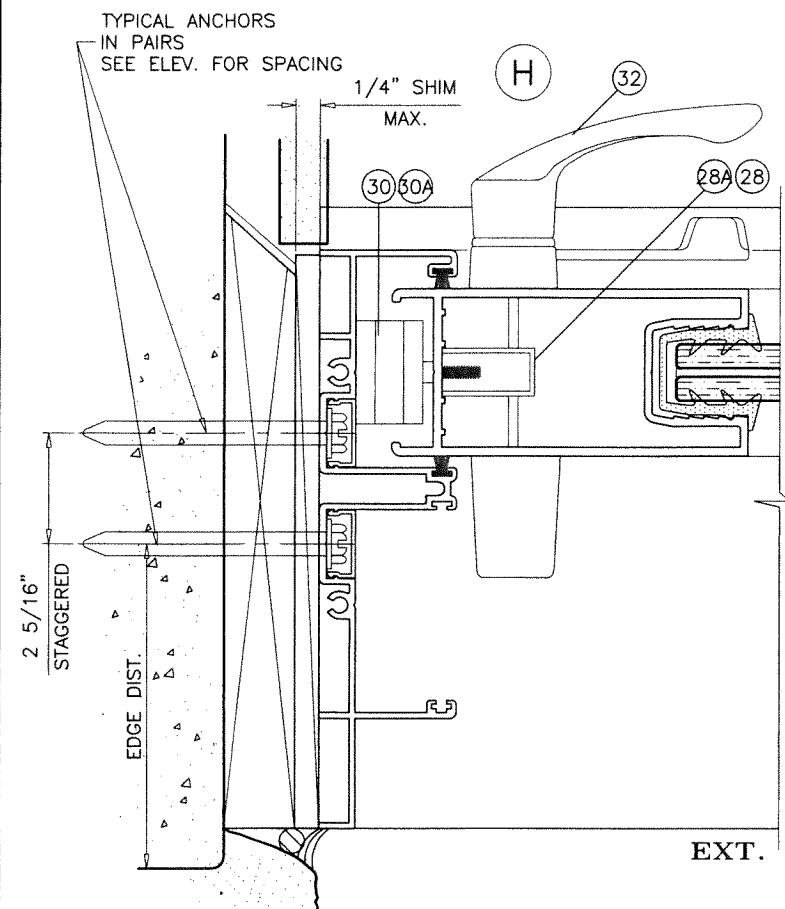
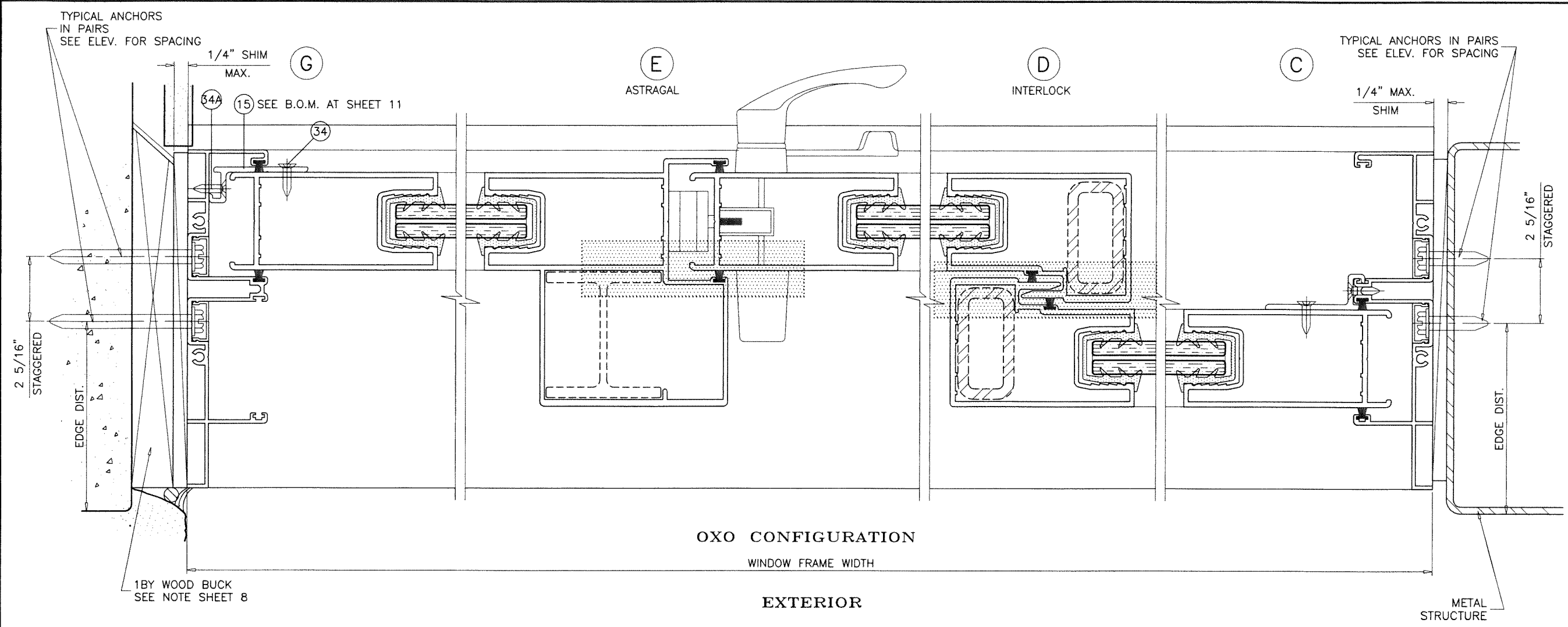
SERIES-6100 ALUM SLIDING GLASS WINDOW (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description

date: 09-30-24
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
24-66D

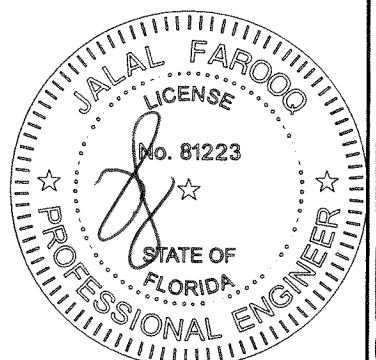
sheet 8 of 12



ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL STILES SHOWN FOR ILLUSTRATION ONLY.
 USE AS SHOWN ON SHEETS 3 THRU 4.
 SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
 SEE ELEVATION FOR ANCHOR SPACING AND SHEET 5 & 5.1 FOR ANCHOR CAPACITY.

PRODUCT APPROVED
 As complying with the Florida Building Code
 NOA-No. **25-0128.04**
 Approval Date: **02/20/2025**
 By: *Manuel Ferrer*
 Miami-Dade Product Control

OCT 18 2024



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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
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 sheet **9** of 12

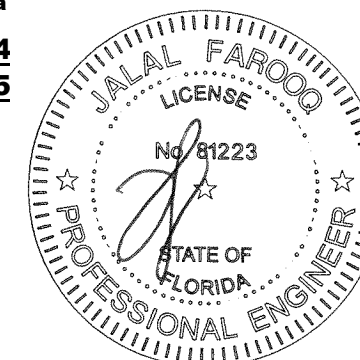
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES6001	1	FRAME HEAD	6005-T5	-
2	ES6023	1	FRAME SILL - 3-1/2" HIGH	6005-T5	-
3	ES6003	2	FRAME JAMB	6063-T6	-
3A	ES6030	2	ALTERNATE FRAME JAMB	6063-T6	-
4	ES-6000-040	2/ PANEL	TOP RAIL	6063-T6	-
5	ES-6000-041	2/ PANEL	BOTTOM RAIL	6063-T6	-
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
13.1	ES6010	1/ PANEL	MOVING PANEL RETAINER CLIP, 4" LONG AT SILL	6005-T5	AT MID WIDTH OF MOVING PANEL
13A	#8 X 3/4"	3/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	FH SMS
13B	#8 X 3/4"	2/ CLIP	MOV. PANEL 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	GTT-354/460-A	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	1/ MOV. PANEL	STD. MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	-
28A	2468T-00	1/ MOV. PANEL	MULTI POINT MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	WITH 2448 TRIM PLATE
29	#10-24 X 3/8" PH MS	2/ LOCK	LOCK INSTALLATION SCREW	ST. STEEL	-
30	ES6017-1	1/ LOCK	LOCK KEEPER (STD. LOCK)	PLATED STEEL	AT 48-1/2" FROM BOTTOM
30A	2447-00	1/ LOCK	LOCK KEEPER (MULTI POINT LOCK)	ST. STEEL	AT 48-1/2" FROM BOTTOM
31	#10 X 5/8" PH SMS B	2/ LOCK	LOCK KEEPER MOUNT. SCREW (STD. LOCK)	ST. STEEL	-
31A	#8 X 3/4" FH SMS	4/ LOCK	LOCK KEEPER MOUNT. SCREW (MULTI POINT LOCK)	ST. STEEL	-
32	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	-	(3) #6-32 X 1/2" FH MS, ST. STEEL
34	#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 WINDOWS WITH STEEL REINFORCING ONLY
ITEMS 28 AND 30 USED FOR ALL OTHER WINDOWS.

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. **25-0128.04**
Approval Date: **02/20/2025**
By: *Manuel Torres*
Miami-Dade Product Control

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AL-FAROOQ CORPORATION
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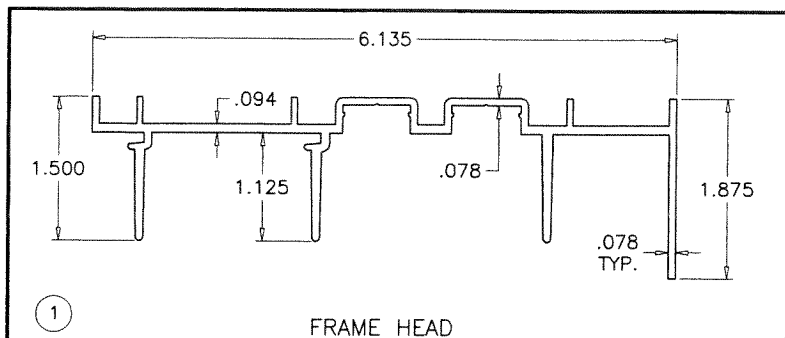
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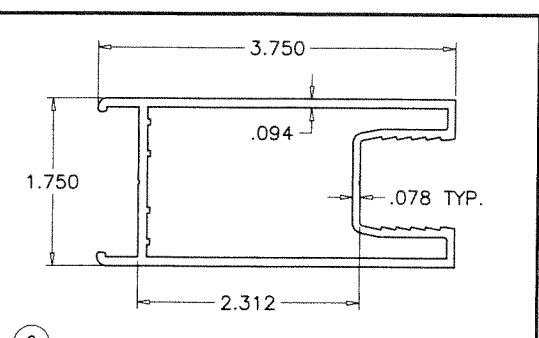
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no	date	by	description				

date: 09-30-24	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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sheet 10 of 12			

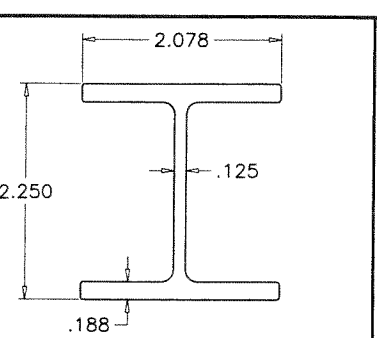
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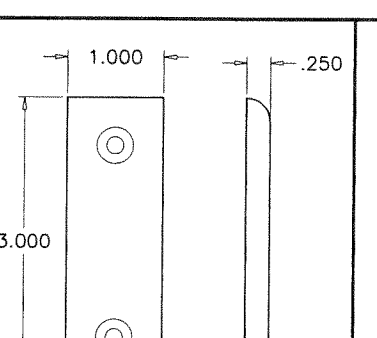
1 FRAME HEAD



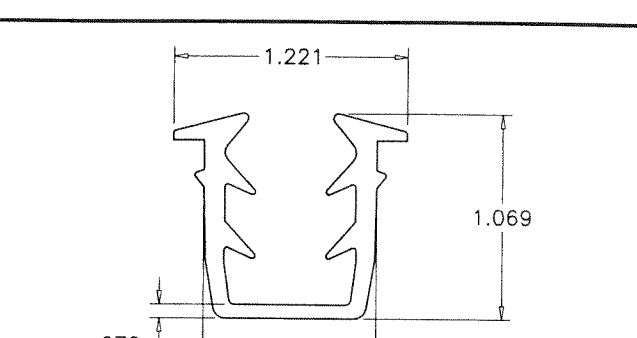
6 LOCK STILE



17 ASTRAGAL STIFFENER

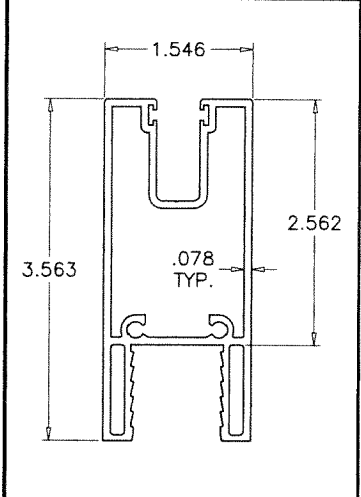


37 RESTRAINING PLATE

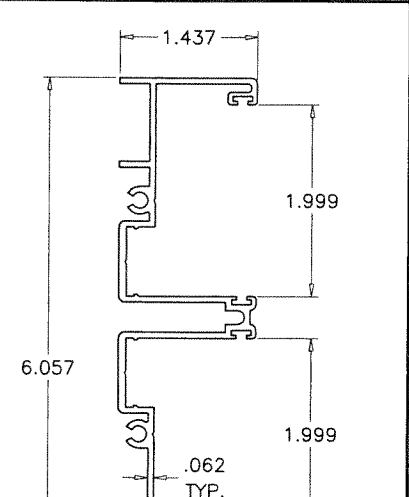


10 GLAZING GASKET
SCALE 1:1

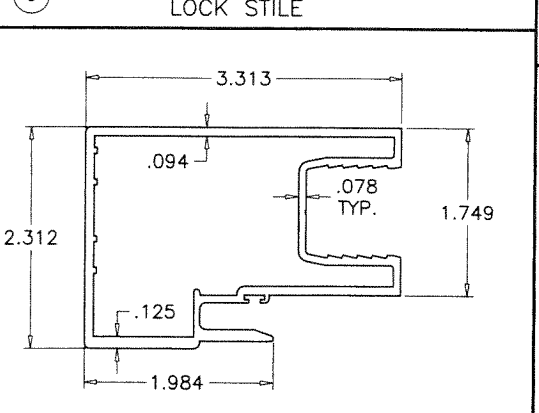
BASE POLYMER = EPDM RUBBER
 DENSITY = 10.26 Lbs/Gal
 HARDNESS = 70±5
 TENSILE STRENGTH = 905 PSI
 ELONGATION AT BREAK = 273%
 TEAR STRENGTH = 1.343 Kip/ft
 BRITTLENESS TEMPERATURE = -40° F
 COMPRESSION SET = 27% (22h@158°F)



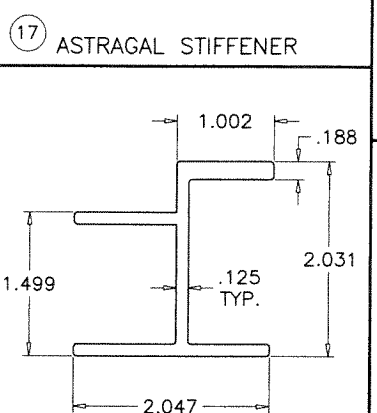
4 PANEL TOP RAIL



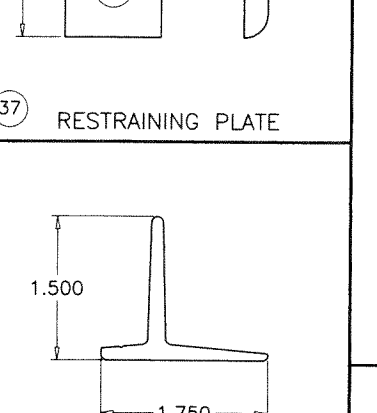
3 FRAME JAMB



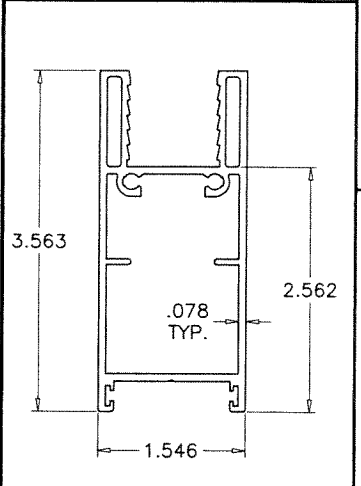
7 INTERLOCK STILE



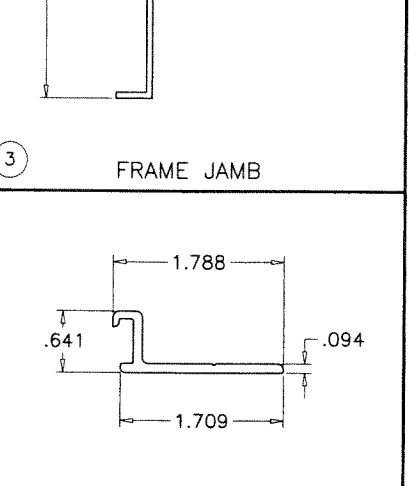
16 INTERLOCK STIFFENER



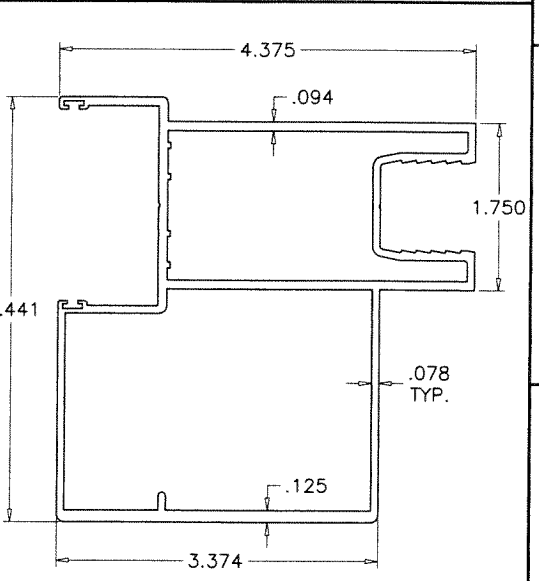
13 13.1 RETAINER CLIP



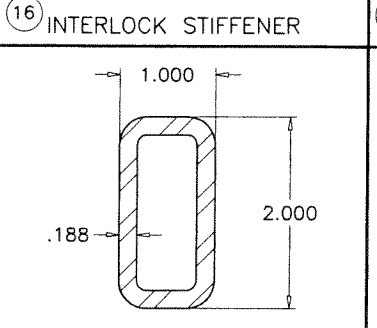
5 PANEL BOTTOM RAIL



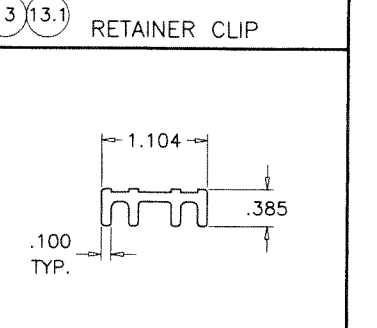
15 FIXED PANEL CLIP



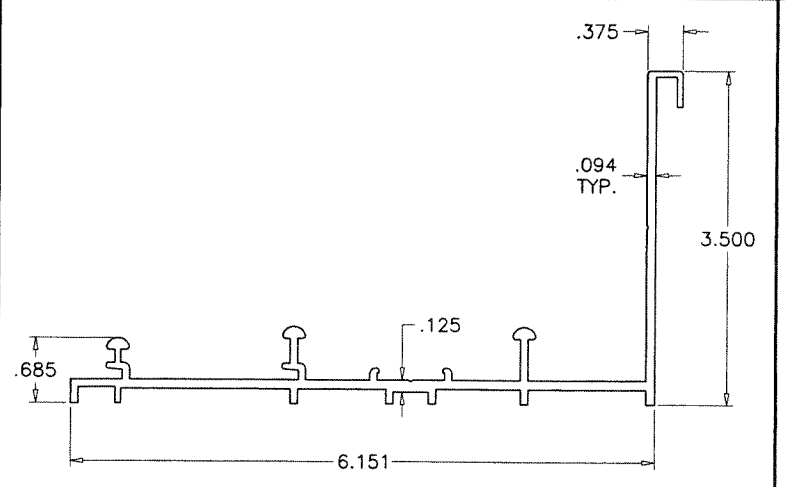
8 ASTRAGAL STILE



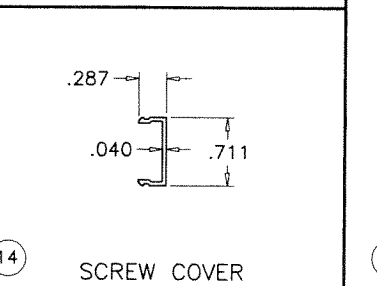
18 INTERLOCK REINFORCING



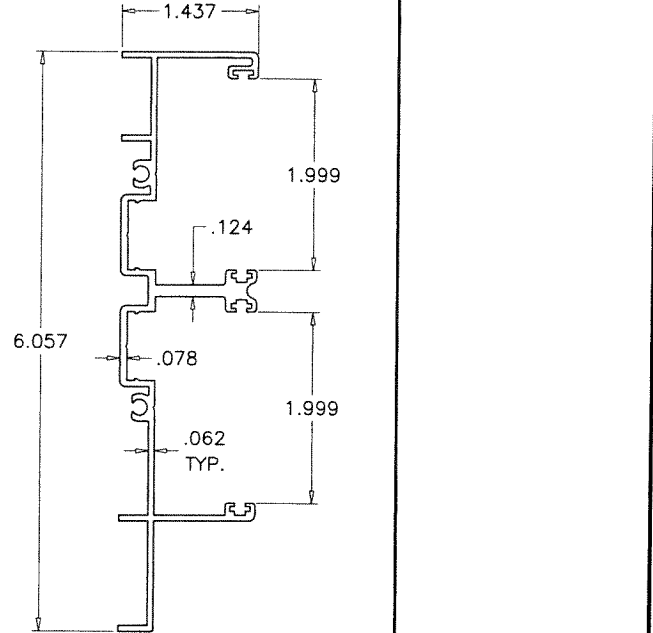
12 FIX. PANEL BOTTOM GUIDE



2 FRAME SILL



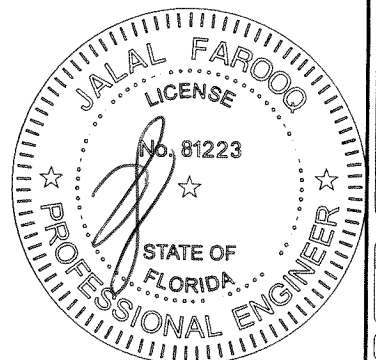
14 SCREW COVER



3A ALT. FRAME JAMB

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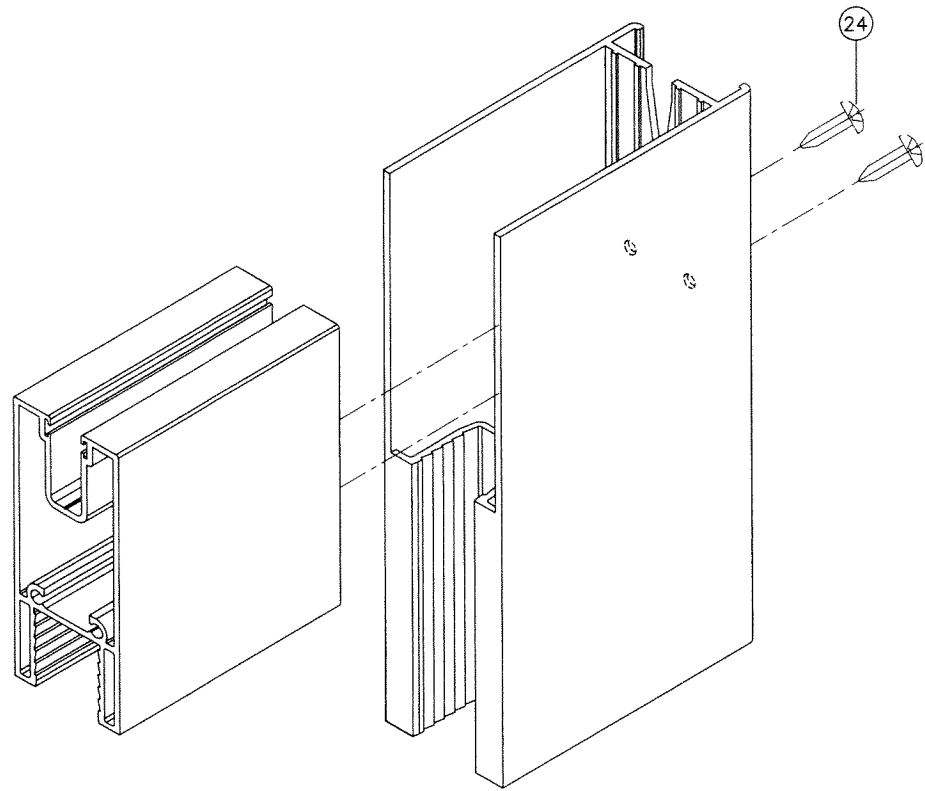
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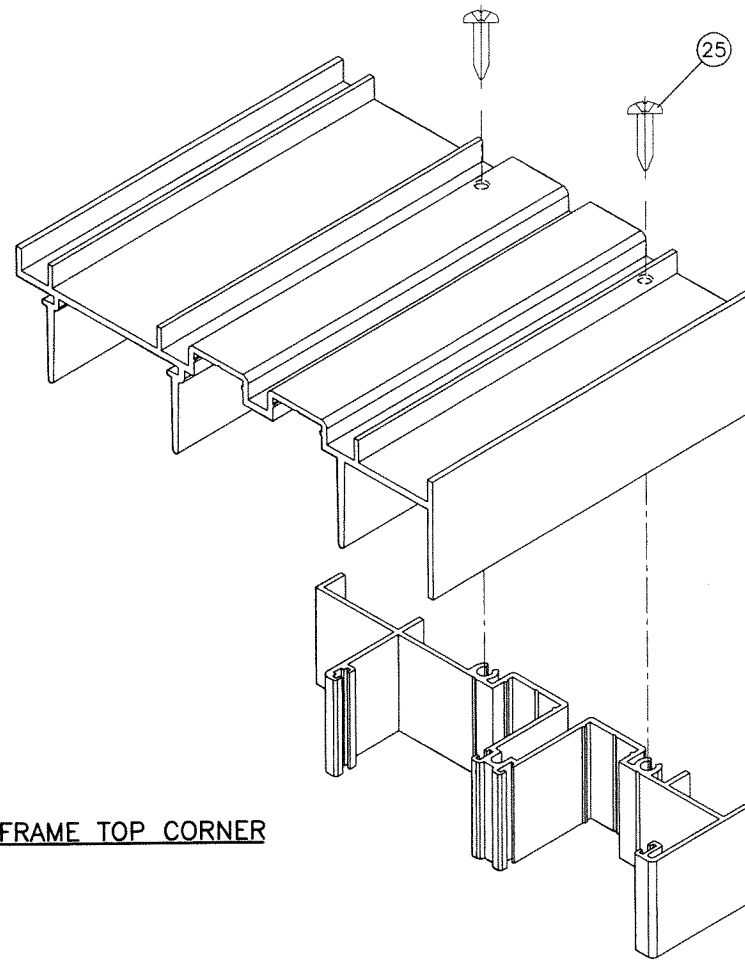
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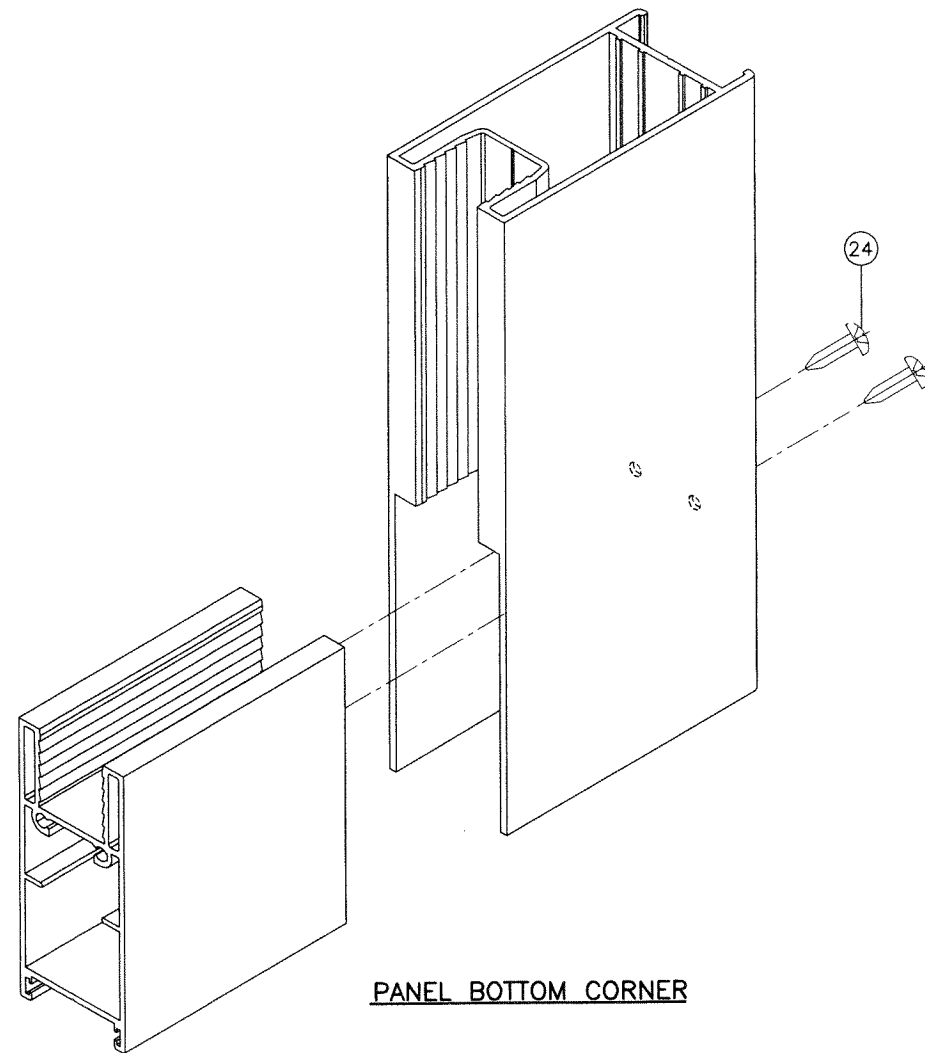
drawing no. **24-66D**
 sheet 11 of 12



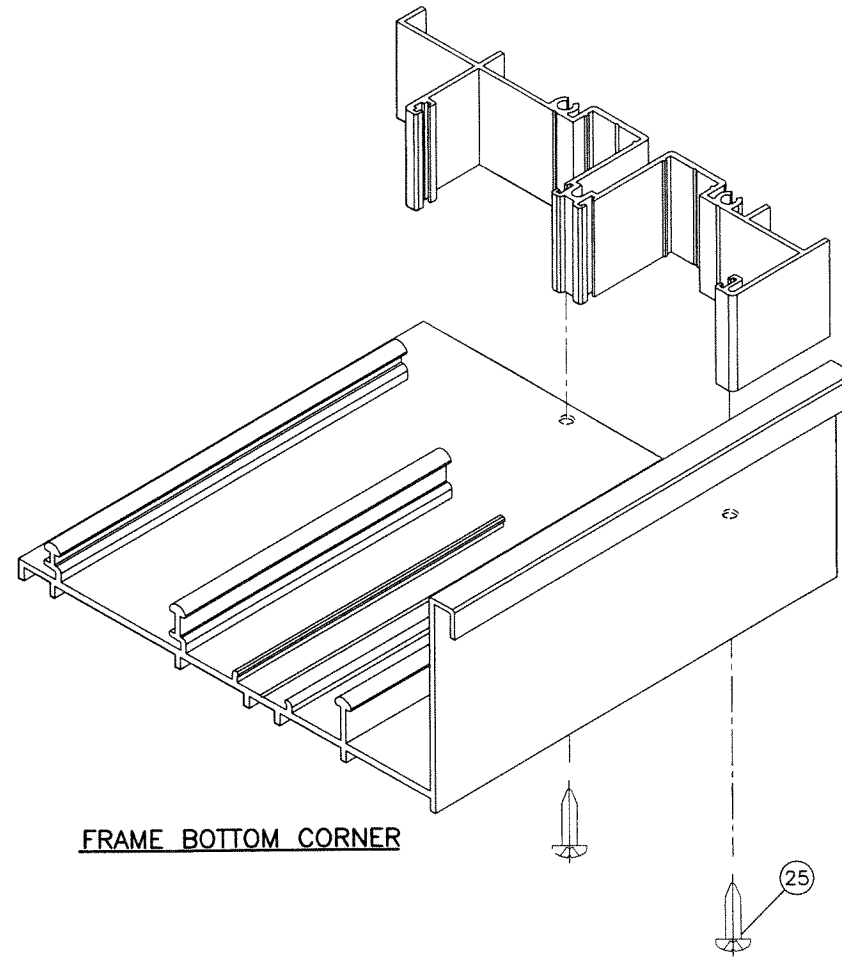
PANEL TOP CORNER



FRAME TOP CORNER

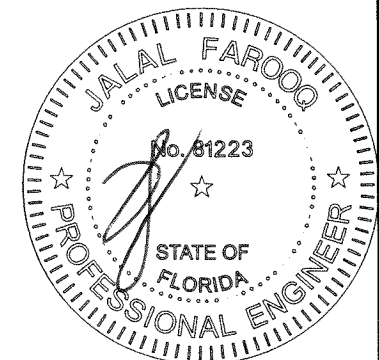


PANEL BOTTOM CORNER



FRAME BOTTOM CORNER

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