



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-6000” Aluminum Horizontal Sliding Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **24-65D**, titled “Series-6000 Alum Sliding Glass Window (L.M.I)”, sheets 1 through 13 of 13, 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: Large and 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.

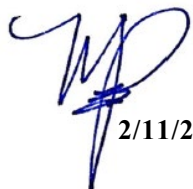
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 and E-2, as well as approval document mentioned above.

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




 2/11/25

NOA No. 25-0128.03
Expiration Date: September 05, 2029
Approval Date: February 20, 2025
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

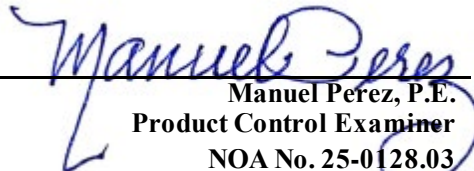
1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 11-0825.07)
2. Drawing No. **24-65D**, titled "Series-6000 Alum Sliding Glass Window (L.M.I)", sheets 1 through 13 of 13, dated 09/30/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

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) Forced Entry Test, per FBC, and TAS 202-94
4) Large 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 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. 16-1130.03)
2. Additional roller assembly qualification Test Report No. **FTL-7651** per TAS 201, 202 & 203-94
(Submitted under NOA No. 14-0408.01)
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) Forced Entry Test, per FBC, and TAS 202-94
5) Large 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 aluminum sliding glass doors, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL-6292** (samples **A-1, B-1, C-1, D-1 & E-1**), dated 08/15/11, signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 11-0825.07)

C. CALCULATIONS

1. Anchor verification calculations complying with FBC 8th Edition (2023), prepared by Al Farooq Corporation, dated October 7, 2024, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09**


Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-0128.03
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E.S. Windows, LLC

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D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

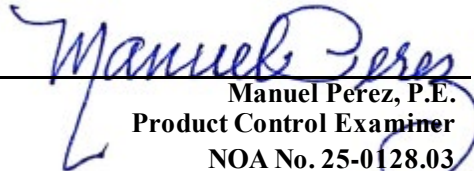
1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28.

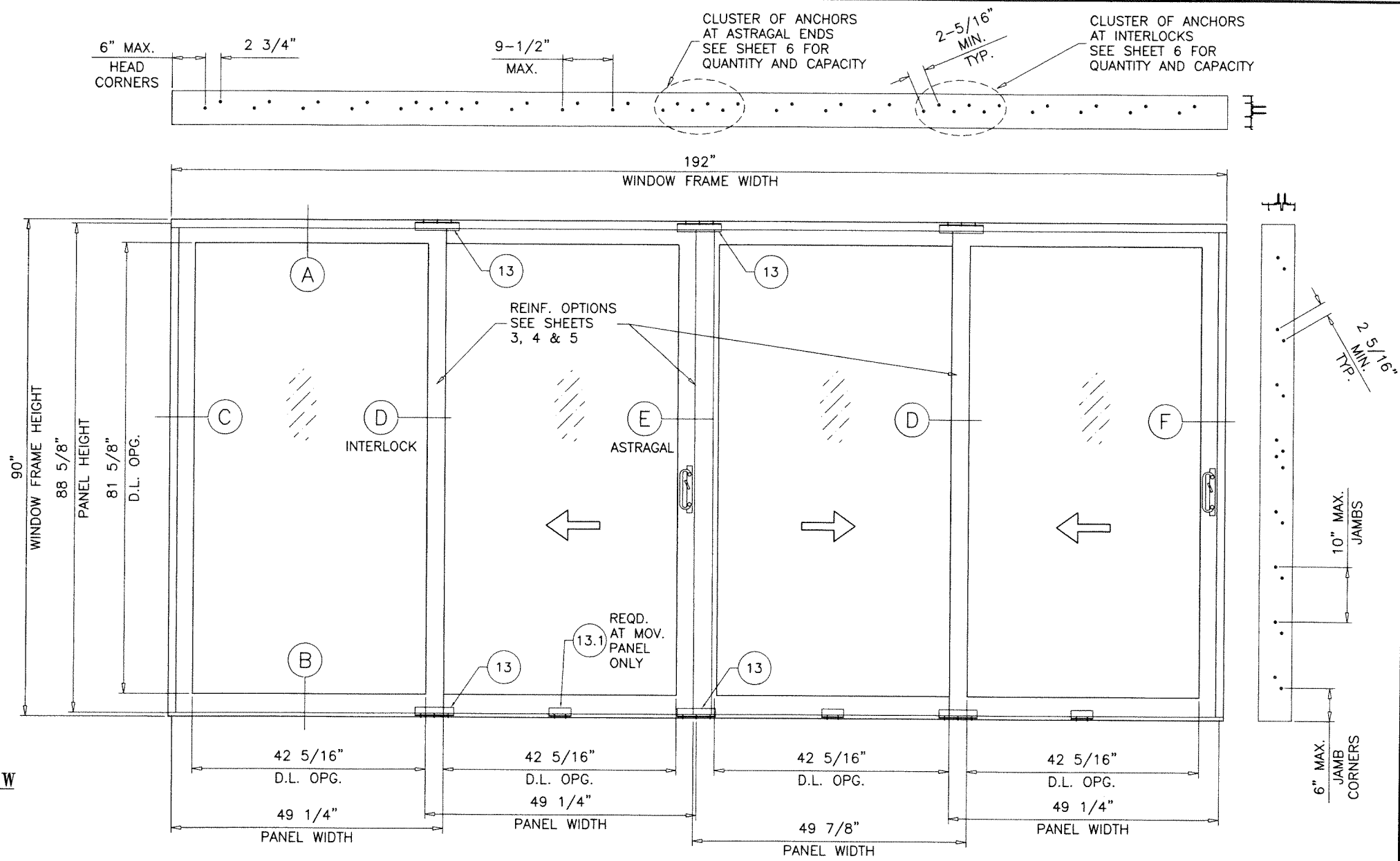
F. STATEMENTS

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) and E.S. Windows, LLC, 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. 24-0312.03)

G. OTHERS

1. Notice of Acceptance No. **24-0312.03**, issued to E.S. Windows, LLC for their Series “6000” Aluminum Sliding Glass Doors(2-Tracks) w/wo Reinforcements - L.M.I., approved on 05/09/24 and expiring on 09/05/29.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 25-0128.03
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DAYLITE OPENINGS:
 D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
 D.L.O. WIDTH = PANEL WIDTH - 6.937"
 PANEL HEIGHT = FRAME HEIGHT - 1.375"

SERIES-6000 ALUMINUM SLIDING GLASS WINDOW

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

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

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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.

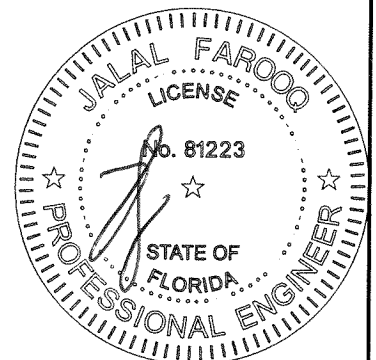
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

PRODUCT APPROVED
 As complying with the Florida Building Code
 NOA-No. **25-0128.03**
 Approval Date: **02/20/2025**
 By: *Manuel Perez*
 Miami-Dade Product Control
OCT 18 2024



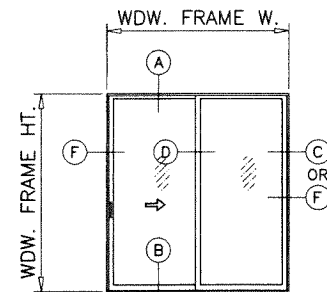
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 262-6978 FAX. (305) 262-6978
 TEL. (305) 264-8100

SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

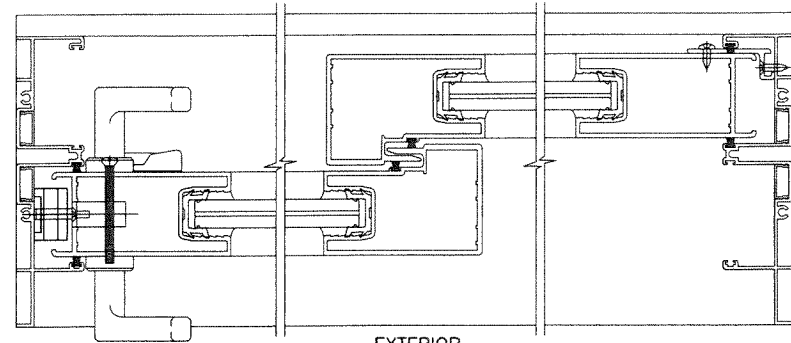
no.	date	description

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 dr. by: TARIQ
 chk. by:
 drawing no. **24-65D**
 sheet 1 of 13

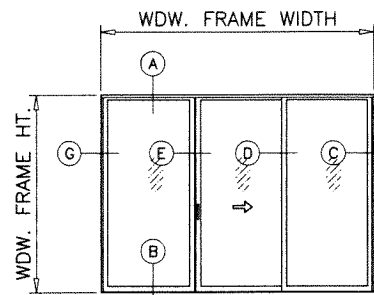
COMP-ANL 24-65D-ES



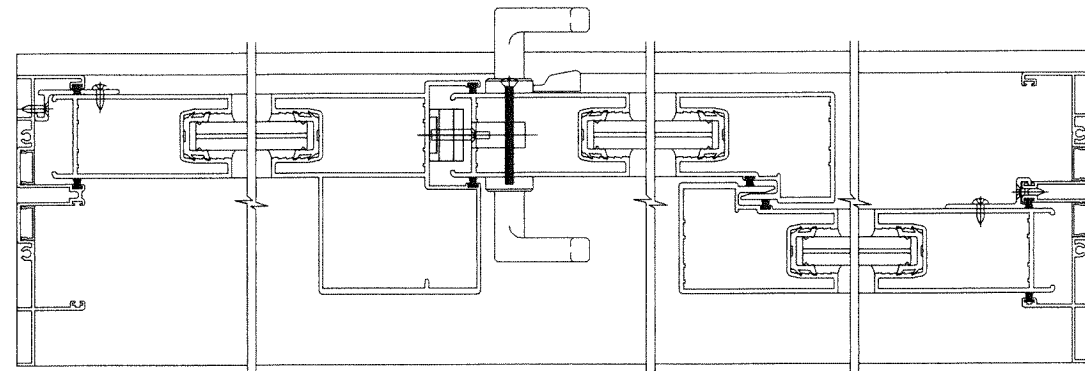
XO (SHOWN)
OX
XX



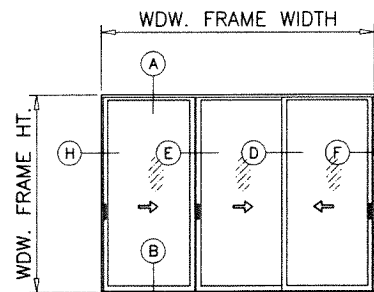
EXTERIOR



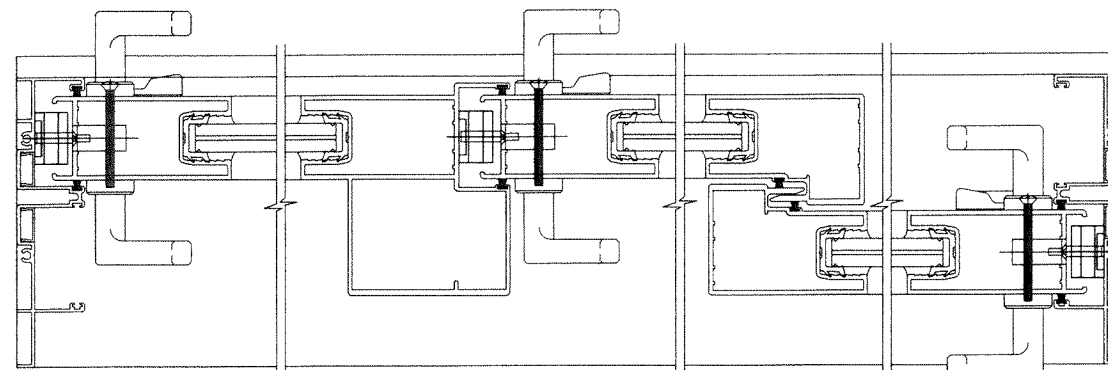
OXO (SHOWN)



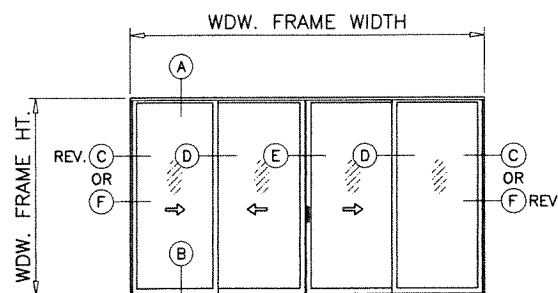
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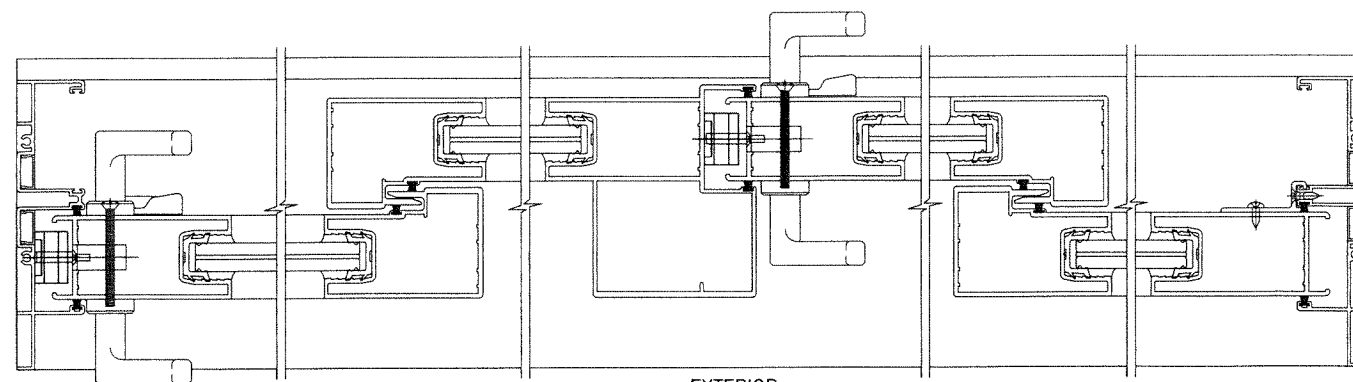
XXX (SHOWN)



EXTERIOR



XXXO (SHOWN)
XXXX
OXXO

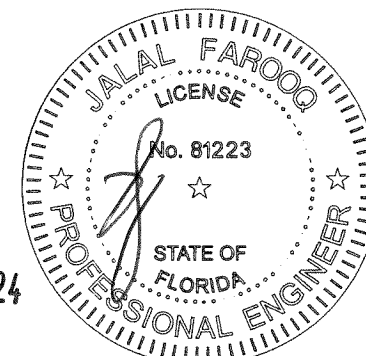


EXTERIOR

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

APPROVED CONFIGURATIONS

PRODUCT APPROVED
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COMP-ANL\24-65D-ES

SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)

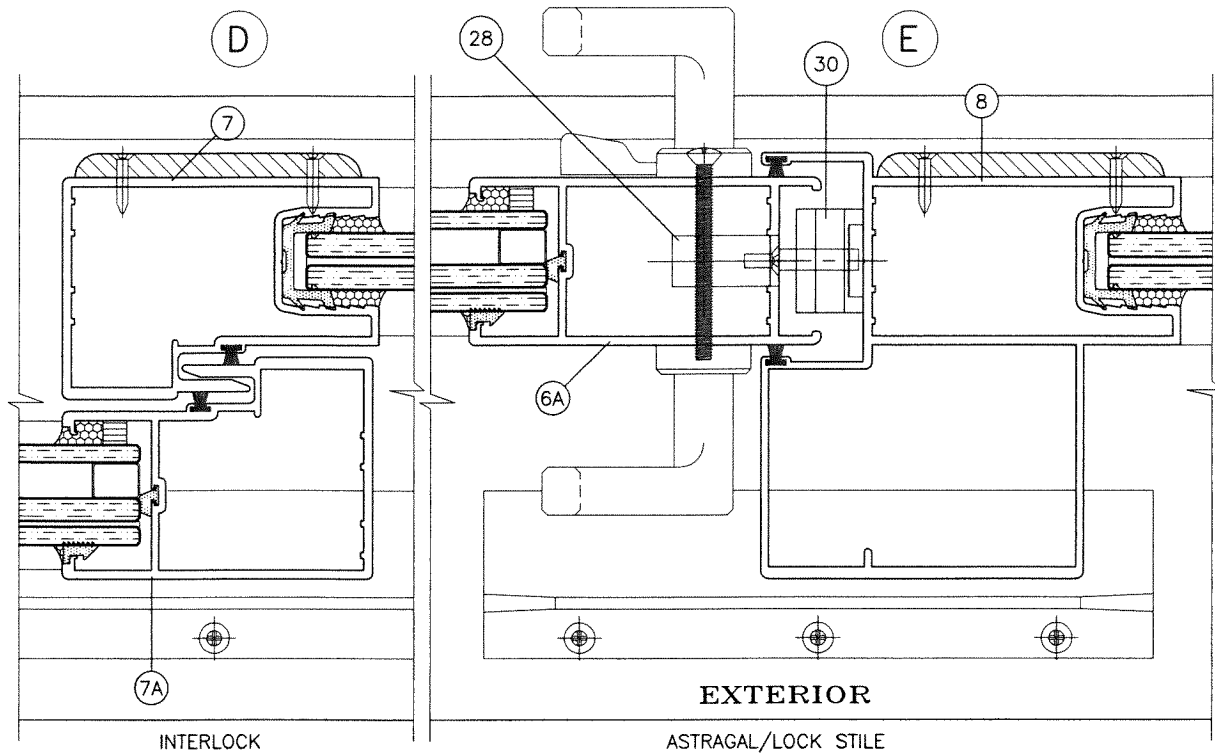
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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no	date	description

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

drawing no.
24-65D

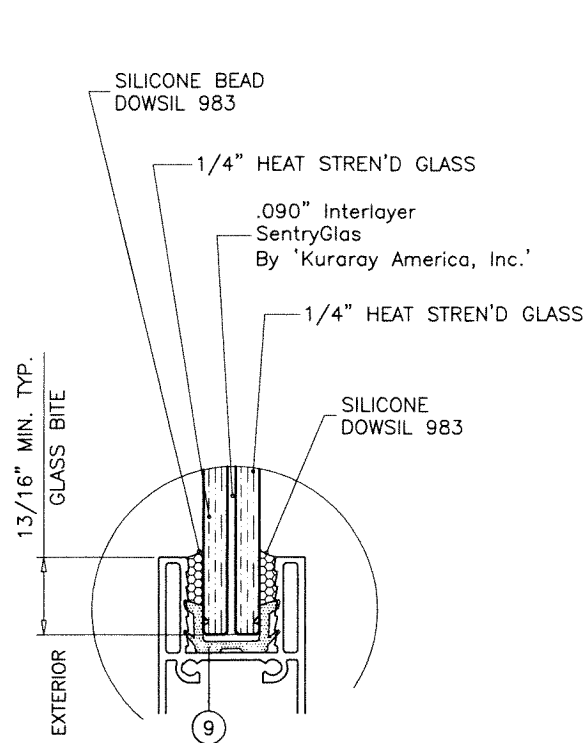
sheet 2 of 13



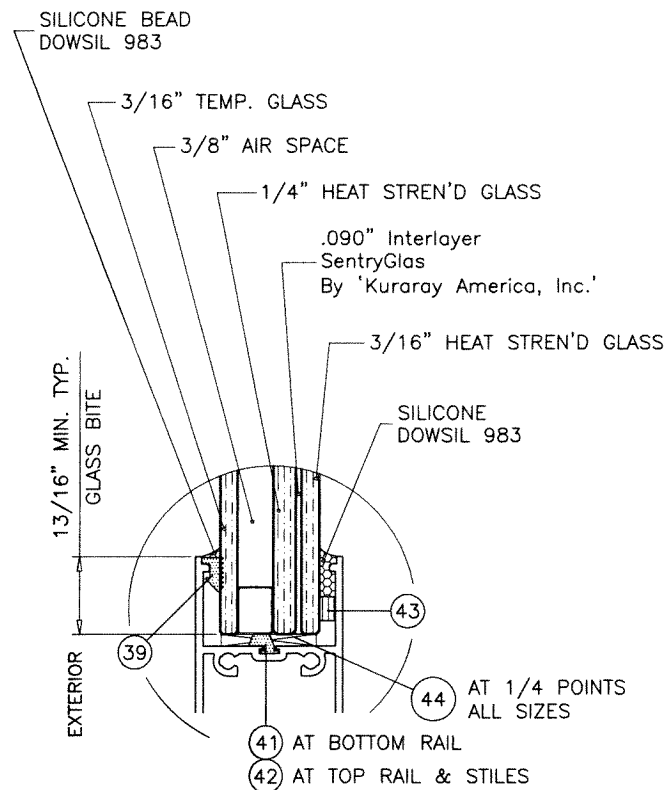
OPTION #1
WITHOUT REINFORCING

DESIGN LOAD CAPACITY - PSF WITHOUT REINFORCING					
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B' & 'B' REVERSE	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
44		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
53		67.9	67.9	67.9	67.9
60		60.0	60.0	60.0	60.0
30	90	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
44		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
53		67.9	67.9	67.9	67.9

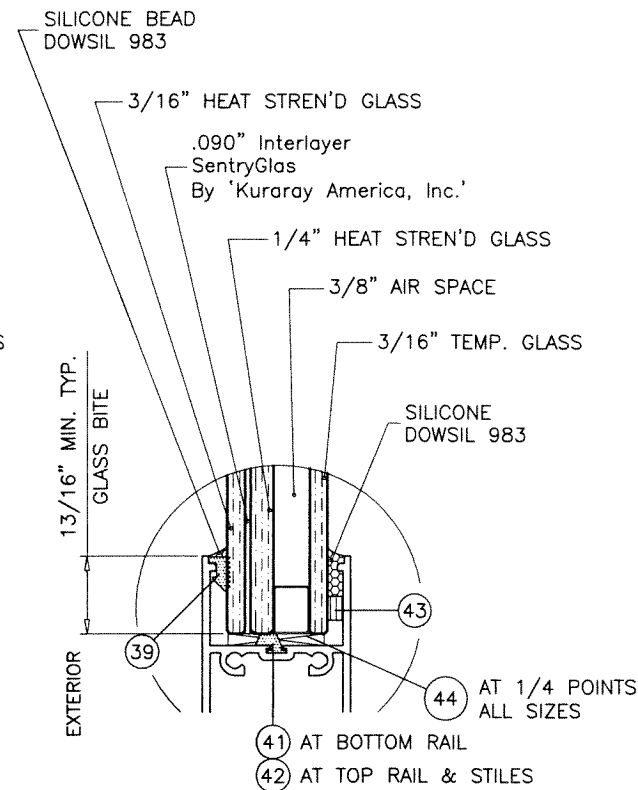
NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH
NUMBER OF PANELS



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



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



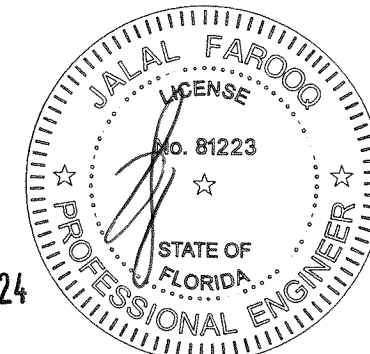
GLASS TYPE 'B' (REVERSE)
1" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

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

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

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. **25-0128.03**
Approval Date: **02/20/2025**
By: *Manuel Perez*
Miami-Dade Product Control



OCT 18 2024

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL 24-65D-ES

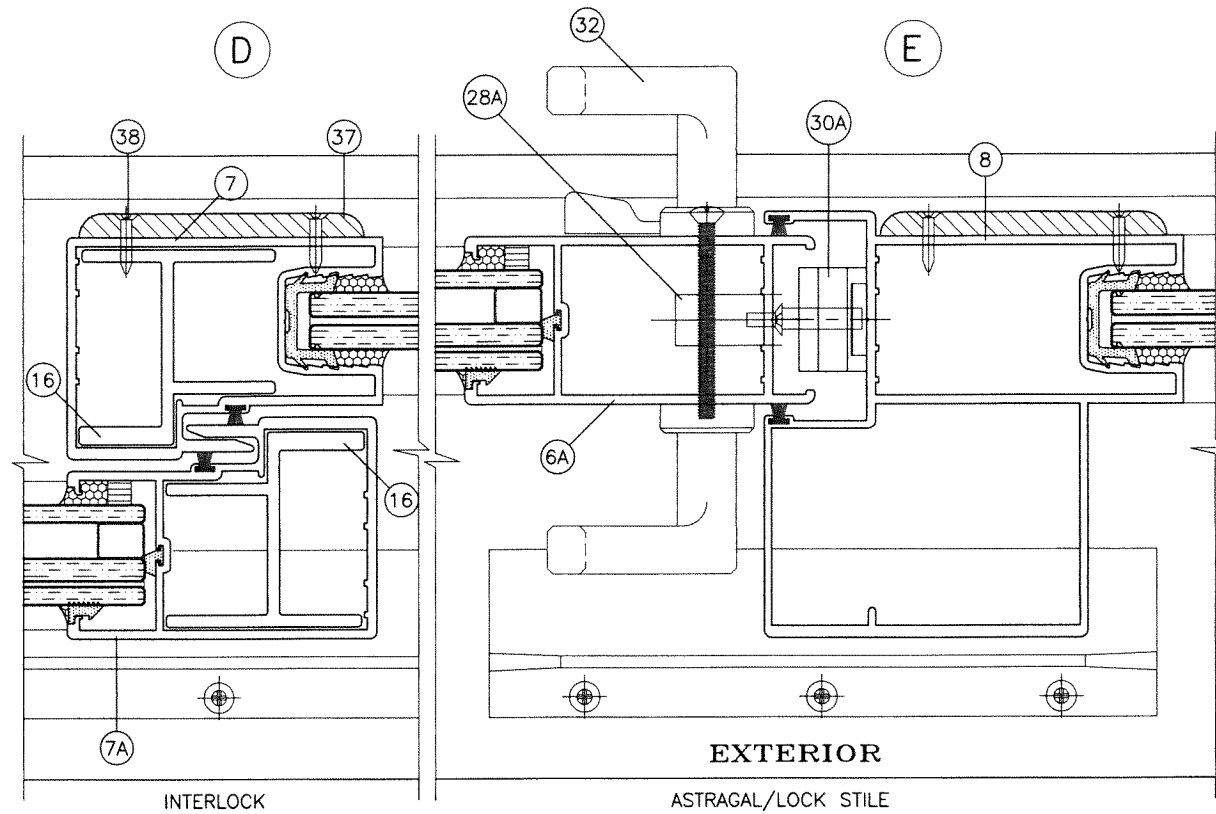
SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)
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revisions:
no date by description

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

drawing no.
24-65D

sheet 3 of 13



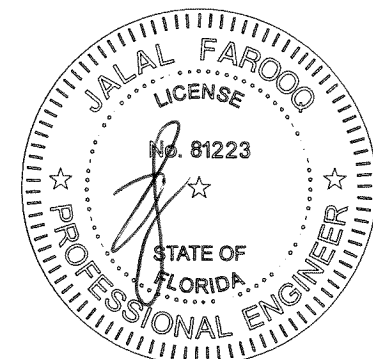
OPTION #2
ALUMINUM REINFORCING AT INTERLOCK

DESIGN LOAD CAPACITY - PSF REINFORCING AT INTERLOCK							
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'B' REVERSE	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	145.0	85.0	145.0	85.0	110.0
40		85.0	145.0	85.0	145.0	85.0	110.0
44		85.0	145.0	85.0	145.0	85.0	110.0
48		85.0	145.0	85.0	145.0	85.0	110.0
50		81.6	139.2	81.6	139.2	81.6	105.6
53		77.0	131.3	77.0	131.3	77.0	99.6
56		72.9	124.3	72.9	124.3	72.9	94.3
60		68.0	116.0	68.0	116.0	68.0	88.0
36	90	85.0	145.0	85.0	145.0	85.0	110.0
40		85.0	145.0	85.0	145.0	85.0	110.0
44		85.0	145.0	85.0	145.0	85.0	110.0
48		85.0	145.0	85.0	145.0	85.0	110.0
50		81.6	139.2	81.6	139.2	81.6	105.6
53		77.0	131.3	77.0	131.3	77.0	99.6
56		72.9	94.3	72.9	94.3	72.9	94.3
60		68.0	88.0	68.0	88.0	68.0	88.0

NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH
NUMBER OF PANELS

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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SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)
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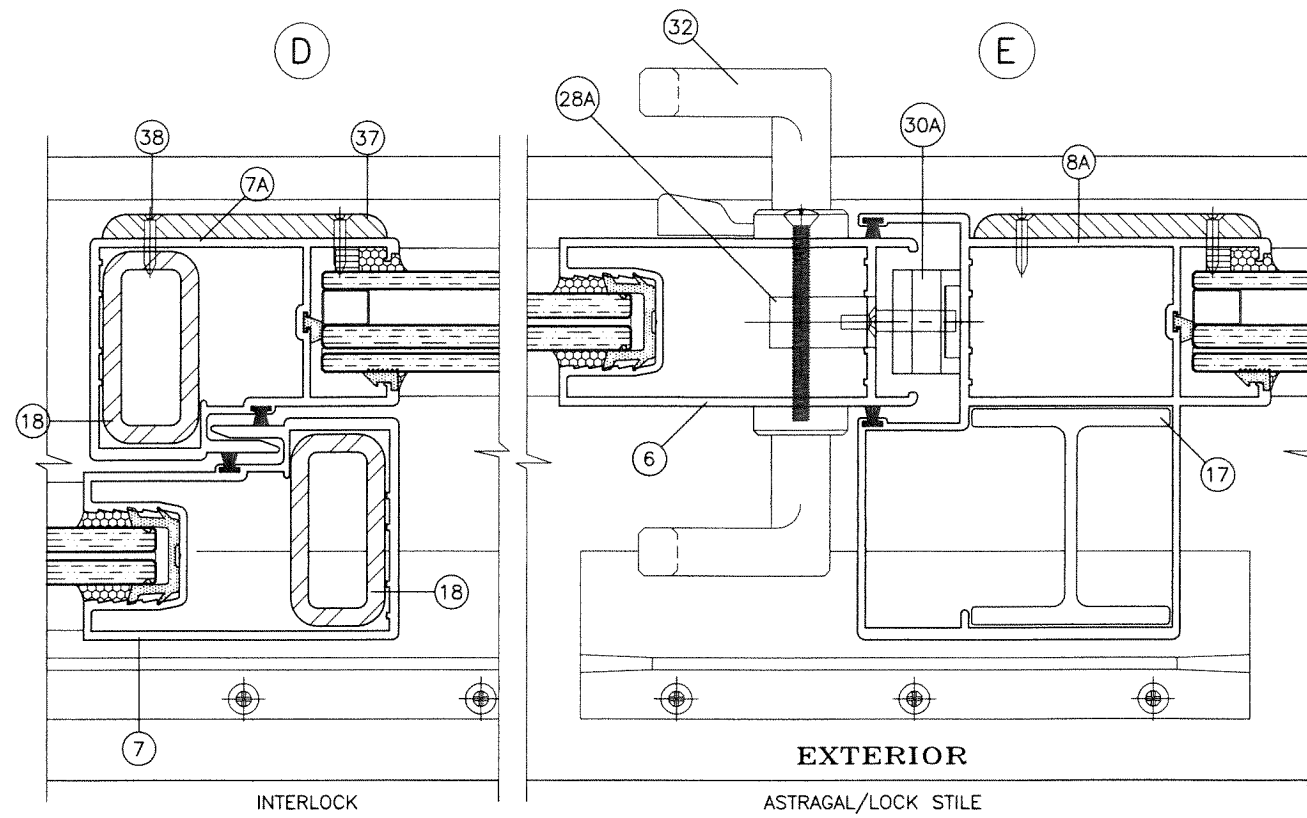
revisions:	no	date	by	description

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

drawing no.
24-65D

sheet 4 of 13

COMP-ANL\24-65D-ES



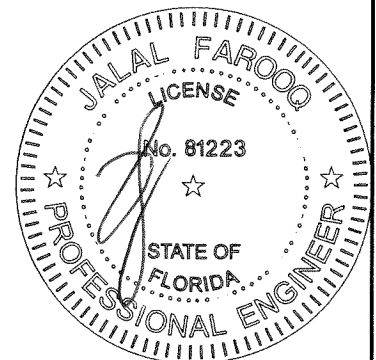
OPTION #3
 STEEL REINFORCING AT INTERLOCK
 ALUMINUM REINFORCING AT ASTRAGAL

DESIGN LOAD CAPACITY - PSF REINFORCING AT INTERLOCK & ASTRAGAL							
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'B' REVERSE	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	130.0	85.0	130.0	85.0	110.0
48		85.0	130.0	85.0	130.0	85.0	110.0
50		81.6	124.8	81.6	124.8	81.6	105.6
53		77.0	117.7	77.0	117.7	77.0	99.6
56		72.9	111.4	72.9	111.4	72.9	94.3
60		68.0	104.0	68.0	104.0	68.0	88.0
36	90	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	130.0	85.0	130.0	85.0	110.0
48		85.0	130.0	85.0	130.0	85.0	110.0
50		81.6	124.8	81.6	124.8	81.6	105.6
53		77.0	117.7	77.0	117.7	77.0	99.6
56		72.9	111.4	72.9	111.4	72.9	94.3
60		68.0	104.0	68.0	104.0	68.0	88.0


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

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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 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
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 COMP-ANL\24-65D-ES

SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)

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

no	date	description

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

drawing no.
24-65D

sheet 5 of 13

HEAD ANCHOR LOAD CAPACITY - PSF					
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	ANCHOR TYPE 'C'
		6 ANCHORS AT MTG. STYLE ENDS	7 ANCHORS AT MTG. STYLE ENDS	6 ANCHORS AT MTG. STYLE ENDS	6 ANCHORS AT MTG. STYLE ENDS
		INT. (-)	INT. (-)	INT. (-)	INT. (-)
30	82	145.0	145.0	145.0	145.0
36		145.0	145.0	145.0	145.0
40		145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0
44		145.0	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0
50		139.2	139.2	139.2	139.2
53		131.3	131.3	131.3	131.3
56		124.3	124.3	124.3	124.3
60		116.0	116.0	116.0	116.0
30	90	145.0	145.0	145.0	145.0
36		145.0	145.0	145.0	145.0
40		135.9	145.0	145.0	145.0
42		131.1	145.0	145.0	145.0
44		126.8	145.0	145.0	145.0
48		119.5	139.4	145.0	145.0
50		116.3	135.7	139.2	139.2
53		112.1	130.0	131.3	131.3
56		94.3	94.3	94.3	94.3
60		88.0	88.0	88.0	88.0

EXT.(+) Dp = 85 PSF MAX.

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

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

SILL ANCHOR LOAD CAPACITY - PSF				
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	ANCHOR TYPE 'B'		
		4 ANCHORS AT MTG. STYLE ENDS	5 ANCHORS AT MTG. STYLE ENDS	
		INT. (-)	INT. (-)	INT. (-)
30	82	145.0	145.0	
36		145.0	145.0	
40		145.0	145.0	
42		145.0	145.0	
44		145.0	145.0	
48		145.0	145.0	
50		139.2	139.2	
53		131.3	131.3	
56		124.3	124.3	
60		116.0	116.0	
30	90	145.0	145.0	
36		145.0	145.0	
40		145.0	145.0	
42		142.6	145.0	
44		138.0	145.0	
48		130.0	145.0	
50		126.6	139.2	
53		122.0	131.3	
56		94.3	94.3	
60		88.0	88.0	

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

— AT HEAD —

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

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

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

— AT SILL —

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

— AT JAMBS —

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

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

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

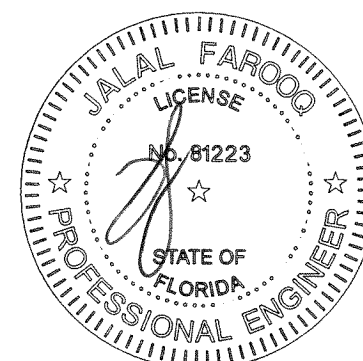
ANCHOR EDGE DISTANCES

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

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

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. **25-0128.03**
Approval Date: **02/20/2025**
By: *Manuel Perez*
Miami-Dade Product Control

OCT 18 2024



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. 3588

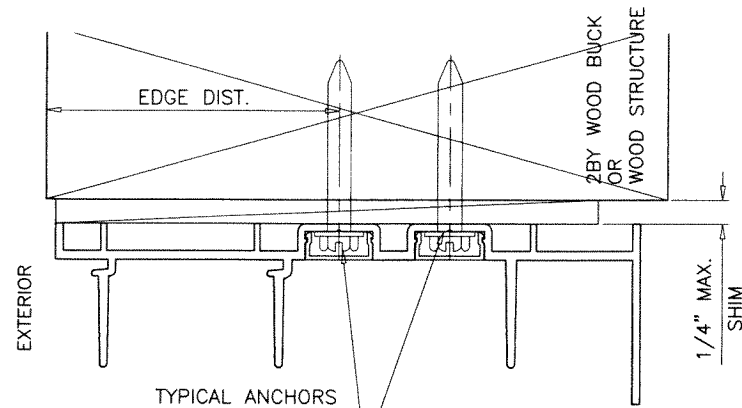
SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	description

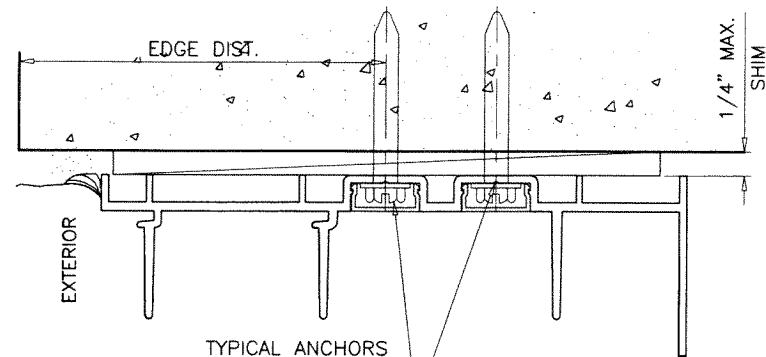
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chk. by:

drawing no.
24-65D
sheet 6 of 13

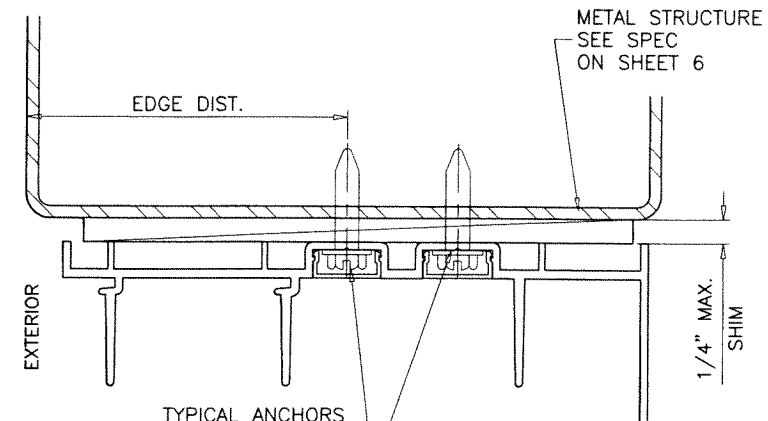
COMP-ANL 24-65D-ES



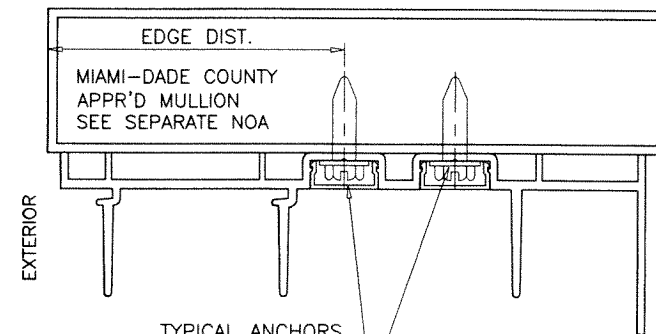
TYPICAL ANCHORS IN STAGGERED CLUSTERS AT INTERLOCK/ASTRAGAL ENDS & IN PAIRS AT FRAME SEE ELEV. FOR SPACING AND SHEET 6 FOR CAPACITY



TYPICAL ANCHORS IN STAGGERED CLUSTERS AT INTERLOCK/ASTRAGAL ENDS & IN PAIRS AT FRAME SEE ELEV. FOR SPACING AND SHEET 6 FOR CAPACITY



TYPICAL ANCHORS IN STAGGERED CLUSTERS AT INTERLOCK/ASTRAGAL ENDS & IN PAIRS AT FRAME SEE ELEV. FOR SPACING AND SHEET 6 FOR CAPACITY

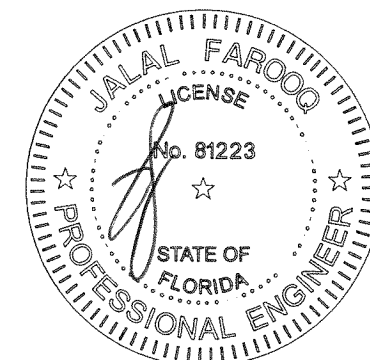


TYPICAL ANCHORS IN STAGGERED CLUSTERS AT INTERLOCK/ASTRAGAL ENDS & IN PAIRS AT FRAME SEE ELEV. FOR SPACING AND SHEET 6 FOR CAPACITY

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

PRODUCT APPROVED
 As complying with the Florida Building Code
 NOA-No. **25-0128.03**
 Approval Date: **02/20/2025**
 By: *Manuel Perez*
 Miami-Dade Product Control

OCT 18 2024



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)

SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

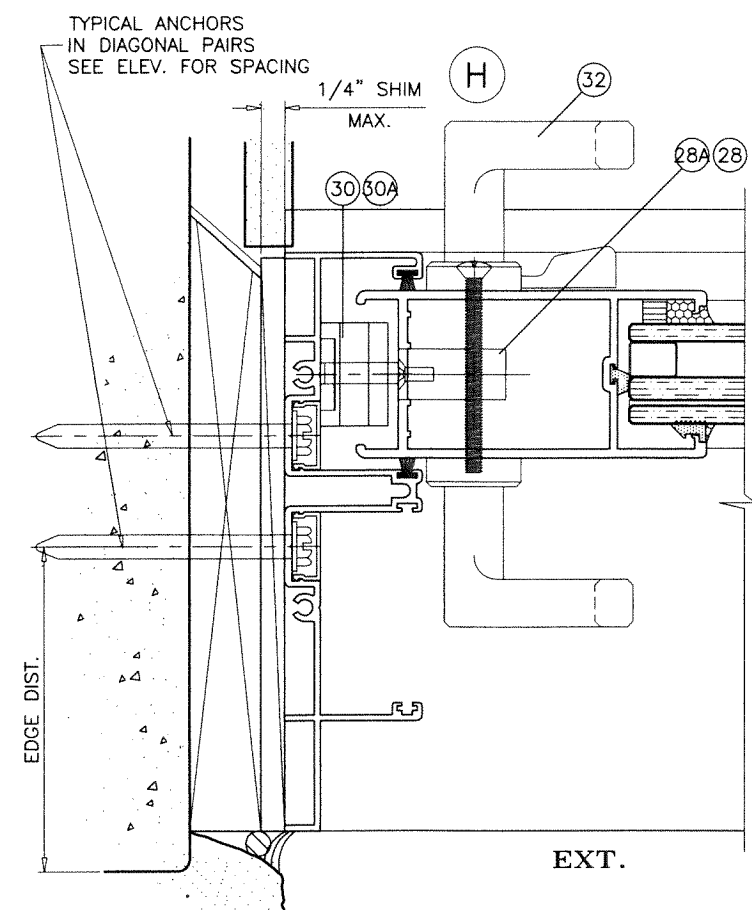
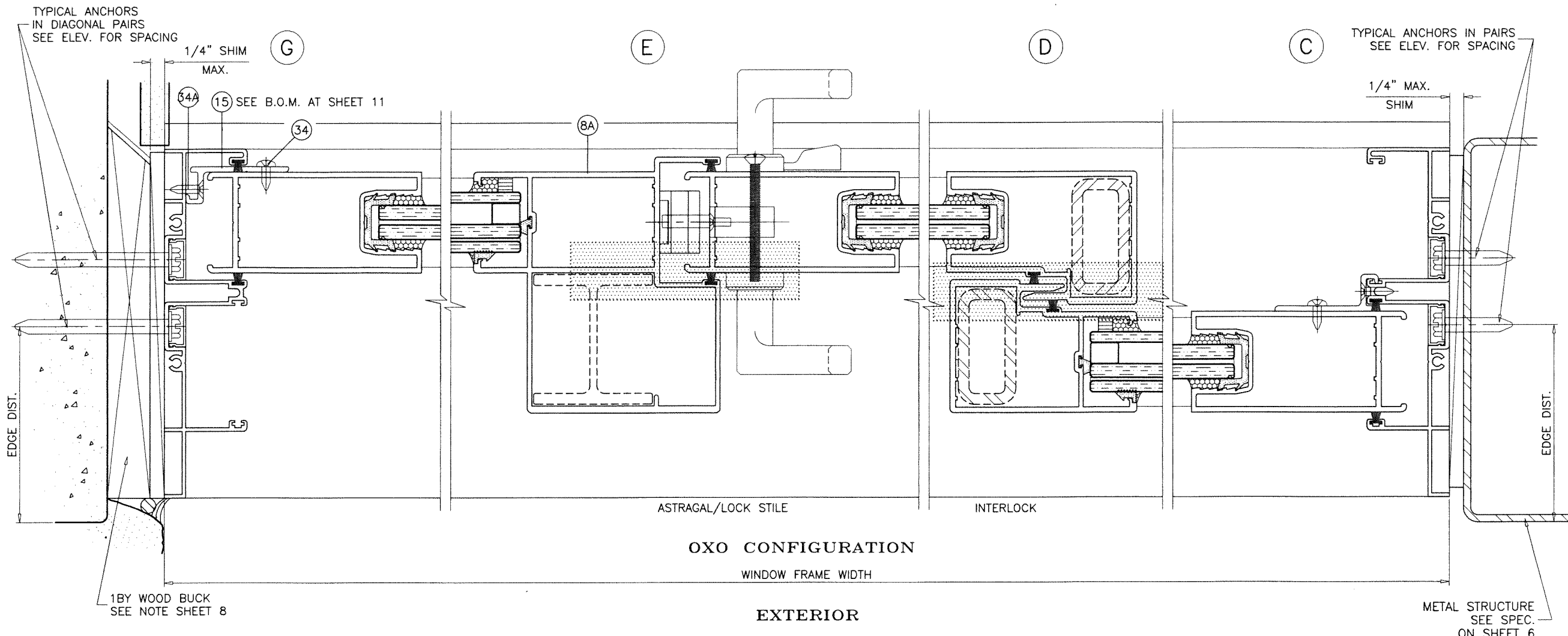
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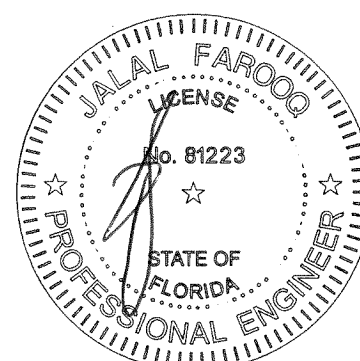
sheet **8** of **13**

COMP-ANL 24-65D-ES



ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL/LOCK STILES SHOWN FOR ILLUSTRATION ONLY. USE AS SHOWN ON SHEETS 4 & 5. SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS. SEE ELEVATION FOR ANCHOR SPACING AND SHEET 6 FOR ANCHOR CAPACITY.

PRODUCT APPROVED
 As complying with the Florida Building Code
 NOA-No. **25-0128.03**
 Approval Date: **02/20/2025**
 By: *Manuel Perez*
 Miami-Dade Product Control



OCT 18 2024

af c

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\24-65D-ES

SERIES-6000 ALUM SLIDING GLASS WINDOW (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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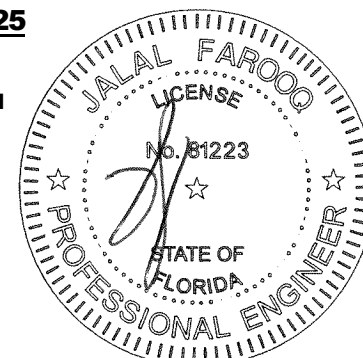
drawing no.
24-65D

sheet 10 of 13

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-6001	1	FRAME HEAD	6005-T5	-
2	ES-6023	1	FRAME SILL - 3-1/2"	6005-T5	-
3	ES-6003	2	FRAME JAMB	6063-T6	-
3A	ES6030	2	ALTERNATE FRAME JAMB	6063-T6	-
4	ES-6000-040	2/ PANEL	TOP RAIL (LAM. GLASS)	6063-T6	-
4A	ES-6004	2/ PANEL	TOP RAIL (INSUL. LAM. GLASS)	6063-T6	-
5	ES-6000-041	2/ PANEL	BOTTOM RAIL (LAM. GLASS)	6063-T6	-
5A	ES-6005	2/ PANEL	BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
6	ES-6000-042	AS REQD.	LOCK STILE (LAM. GLASS)	6063-T6	-
6A	ES-6006	AS REQD.	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
7	ES-6000-043	AS REQD.	INTERLOCK (LAM. GLASS)	6063-T6	-
7A	ES-6007	AS REQD.	INTERLOCK (INSUL. LAM. GLASS)	6063-T6	-
8	ES-6000-044	AS REQD.	FEMALE ASTRAGAL (LAM. GLASS)	6063-T6	-
8A	ES-6008	AS REQD.	FEMALE ASTRAGAL (INSUL. LAM. GLASS)	6063-T6	-
9	ES-6500-G01A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A.
11	ES-6016	4/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	LOCATED AT PANEL ENDS
12	ES-6015	2/ PANEL	FIXED PANEL BOTTOM CLIP , 7" LONG MIN.	6063-T6	SECURE W/ (2) #8 X 3/4" FH SMS
13	ES-6010	2/ PANEL	RETAINER CLIP, 6" LONG	6005-T5	AT MTG. RAIL HEAD & SILL ENDS
13.1	ES-6010	1/ PANEL	MOVING PANEL RETAINER CLIP, 4" LONG	6005-T5	AT MID WIDTH OF MOVING PANELS
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	ES-6011	2/ JAMB	JAMB SCREW COVER	6063-T5	OPTIONAL
15	ES-6014	AS REQD.	FIXED PANEL CLIP, 4" LONG	6063-T6	AT 20" FROM EACH END AND 27" O.C. MAX.
16	ES-6012	AS REQD.	INTERLOCK STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
17	ES-6013	AS REQD.	ASTRAGAL STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
18	1" X 2" X 3/16"	AS REQD.	STEEL TUBE REINFORCING (LENGTH = PANEL HT. - 2-3/8")	A36 STEEL	TO BE PAINTED
21	W222521K	AS REQD.	STILE & JAMB W'STRIPPING	-	ULTRAFAB
22	W223221K	AS REQD.	TOP RAIL PILE W'STRIPPING	-	ULTRAFAB
23	ES-6027	AS REQD.	BOTTOM RAIL W'STRIPPING	EPDM	DUROMETER 75±4 SHORE A
24	#10 X 1-1/2" PH SMS	8/ PANEL	PANEL ASSY SCREWS	-	-
25	#10 X 1" PH SMS	2/ CORNER	FRAME ASSY SCREWS	-	-
26	GTT-354/460-A	2/ MOV. PANEL	TANDEM ACETAL WHEELS IN METALLIC HOUSING	-	PABOSE
27	1/4-20 X 1-3/4" PH MS	2/ ROLLER	ROLLER INST. SCREWS	-	-
28	191056	1/ MOV. PANEL	STD. MORTISE LOCK, AT 40" FROM BOTTOM	ST. STEEL	INTERLOCK (ASSA ABLOY)
28A	191014	1/ MOV. PANEL	MULTI POINT MORTISE LOCK, AT 40" FROM BOTTOM	ST. STEEL	INTERLOCK (ASSA ABLOY)
29	#10-24 X 3/8" PH MS	2/ LOCK	LOCK INSTALLATION SCREW	ST. STEEL	-
30	191018	1/ LOCK	LOCK KEEPER (STD. LOCK), AT 48-1/2" FROM BOTTOM	PLATED STEEL	INTERLOCK (ASSA ABLOY)
30A	191040	1/ LOCK	LOCK KEEPER (MULTI POINT LOCK), AT 48-1/2" FROM BOTTOM	ST. STEEL	INTERLOCK (ASSA ABLOY)
31	#10 X 5/8" PH SMS B	2/ LOCK	LOCK KEEPER MOUNT. SCREW (STD. LOCK)	ST. STEEL	-
31A	#8 X 3/4" FH SMS	4/ LOCK	LOCK KEEPER MOUNT. SCREW (MULTI POINT LOCK)	ST. STEEL	-
32	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	-	(3) #6-32 X 1/2" FH MS, ST. STEEL
34	#10 X 3/4" PH SDS	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	-
34A	#10 X 3/4" PH SDS	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	-
35	-	AS REQD.	1"X4" LONG SELF ADHESIVE PILE PAD	WOOLPILE	AT HEAD AND SILL
37	ES-6019	AS REQD.	RESTRAINING PLATE	NYLON	AT TOP & BOTT. INTERLOCKS & ASTRAGAL
38	#8 X 3/4" FH SMS	2/ PLATE	RESTRAINING PLATE FASTENER	-	-
39	ES-4013	AS REQD.	GLAZING WEDGE	-	-
41	ES-4014	AS REQD.	BOTTOM RAIL GLASS STOP	EPDM	DUROMETER 68±4 SHORE A
42	ES-4018	AS REQD.	TOP RAIL & STILES GLASS STOP	EPDM	DUROMETER 75±4 SHORE A
43	-	AS REQD.	1/4" X 1/4" GLAZING TAPE	FOAM	-
44	-	2/ LITE	SETTING BLOCK, 1" X 1/8" X 2-1/2" LONG	EPDM	DUROMETER 80±5 SHORE A

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

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. **25-0128.03**
Approval Date: **02/20/2025**
By: *Manuel Perez*
Miami-Dade Product Control



OCT 18 2024

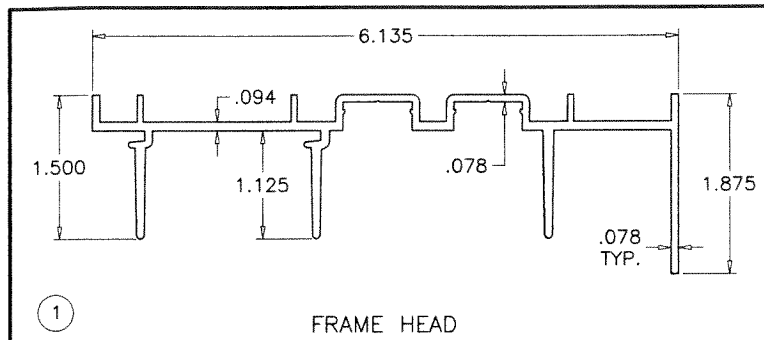
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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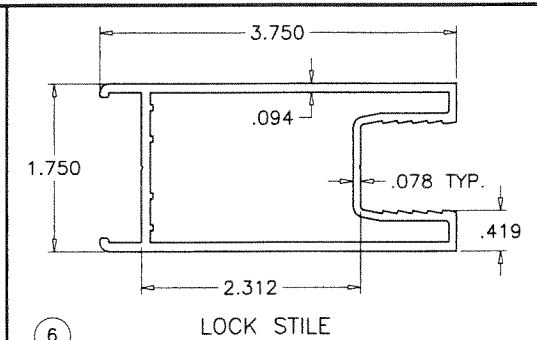
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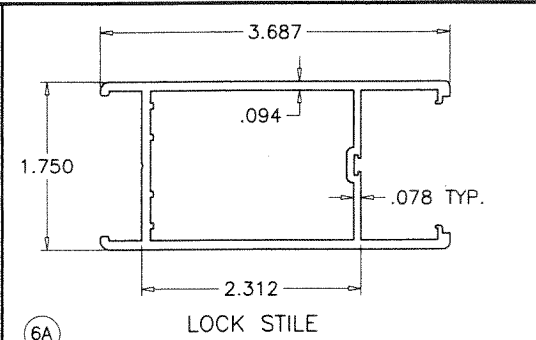
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24-65D
sheet 11 of 13



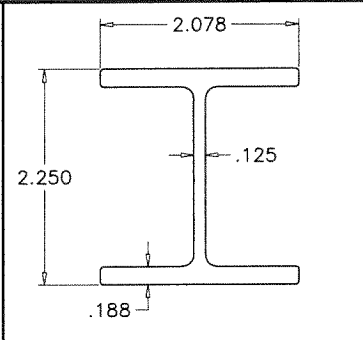
1 FRAME HEAD



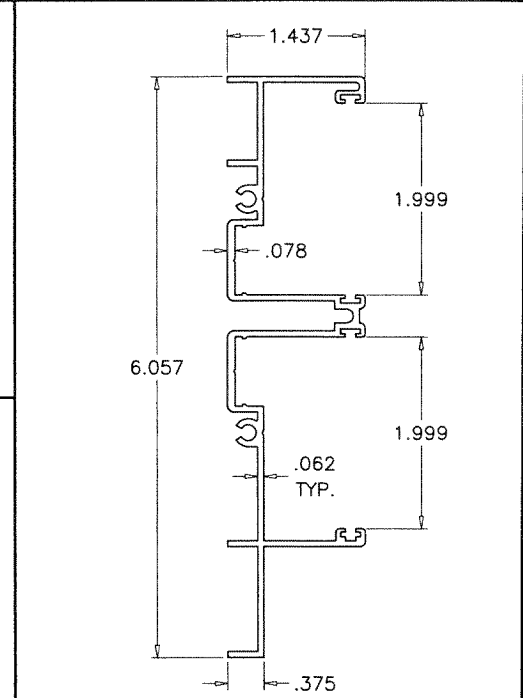
6 LOCK STILE (LAM. GLASS)



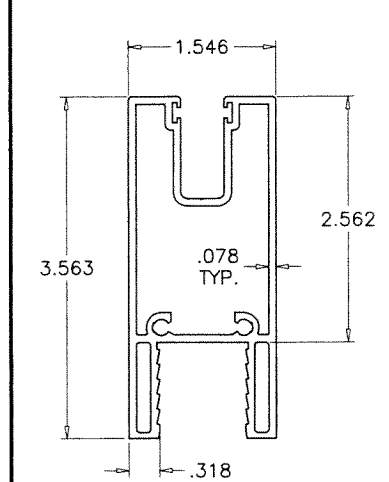
6A LOCK STILE (INSUL. LAM. GLASS)



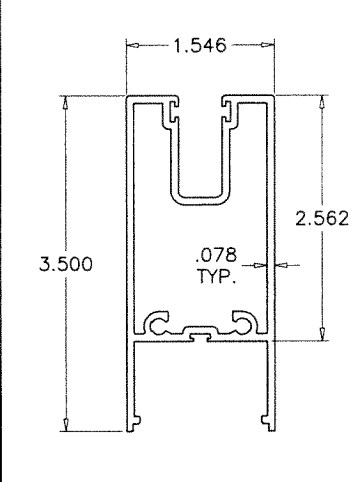
17 ASTRAGAL STIFFENER



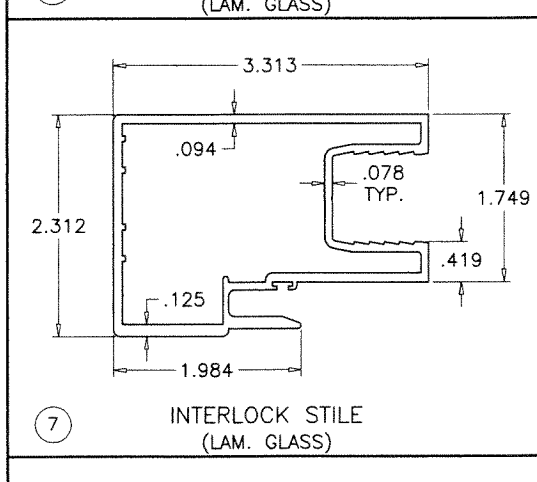
3 FRAME JAMB



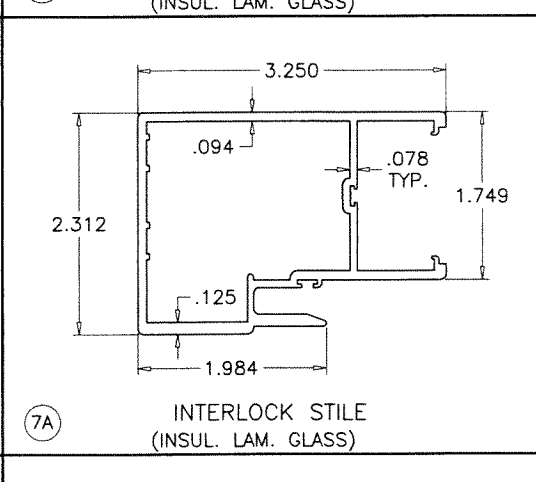
4 PANEL TOP RAIL (LAM. GLASS)



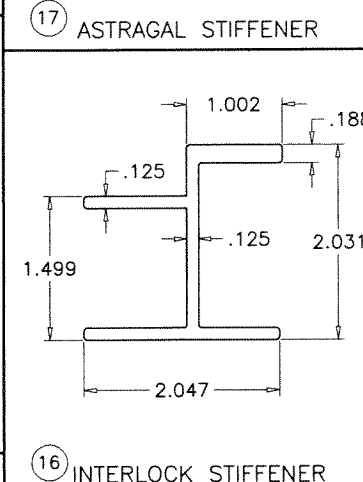
4A PANEL TOP RAIL (INSUL. LAM. GLASS)



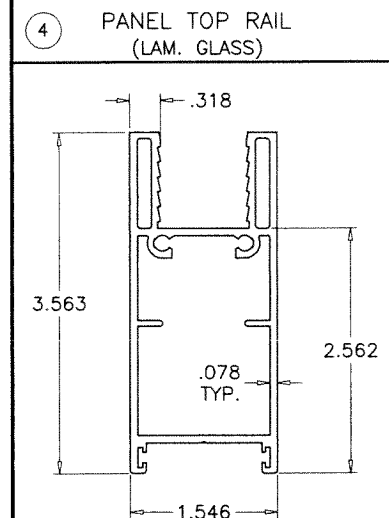
7 INTERLOCK STILE (LAM. GLASS)



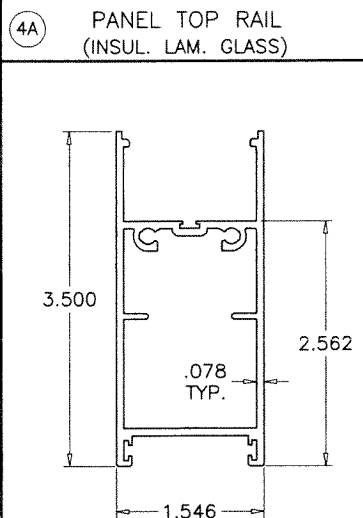
7A INTERLOCK STILE (INSUL. LAM. GLASS)



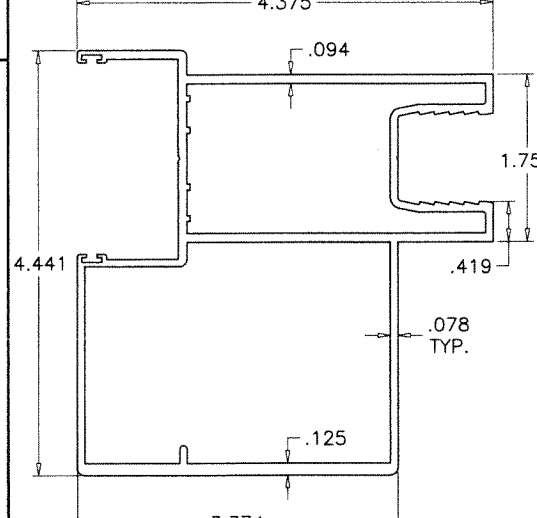
16 INTERLOCK STIFFENER



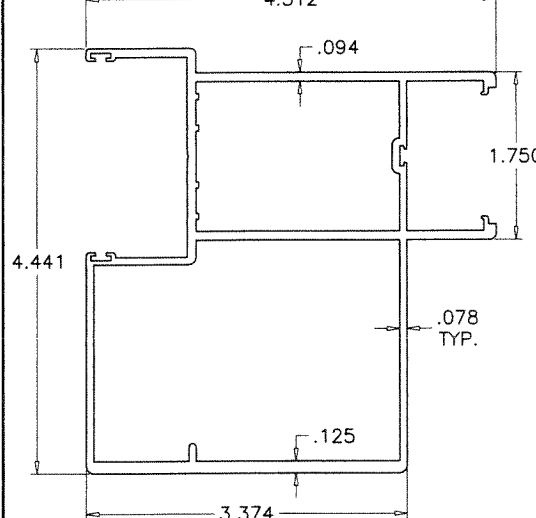
5 PANEL BOTTOM RAIL (LAM. GLASS)



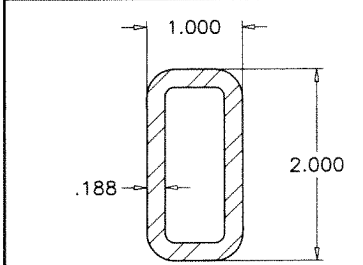
5A PANEL BOTTOM RAIL (INSUL. LAM. GLASS)



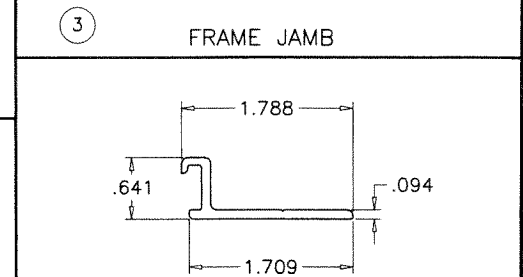
8 ASTRAGAL STILE (LAM. GLASS)



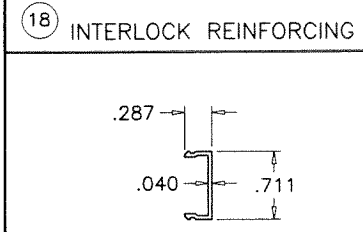
8A ASTRAGAL STILE (INSUL. LAM. GLASS)



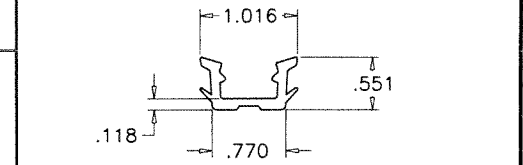
18 INTERLOCK REINFORCING



15 FIXED PANEL CLIP

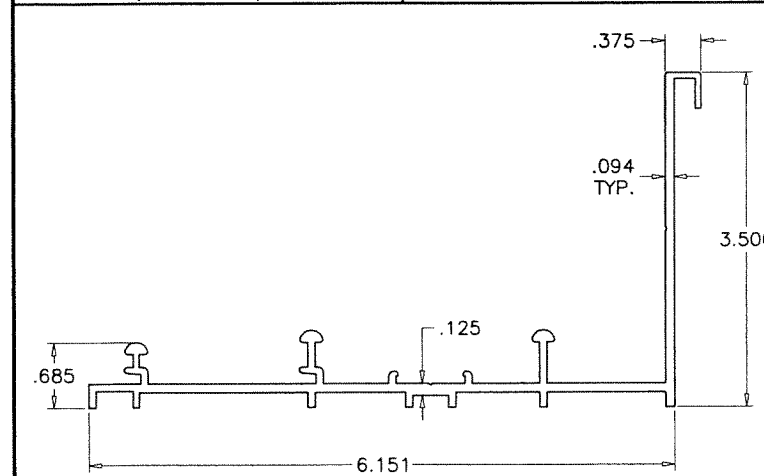


14 SCREW COVER

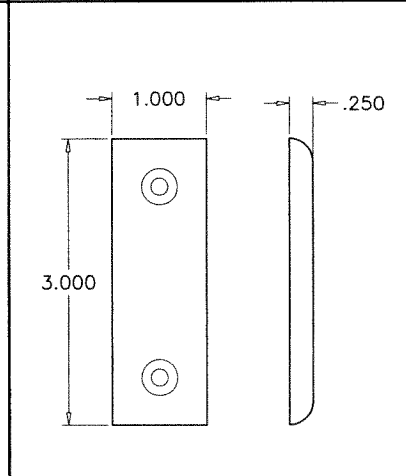


9 GLAZING GASKET (LAMINATED GLASS)

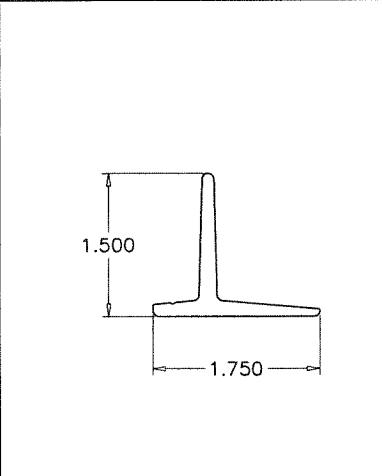
BASE POLYMER = EPDM RUBBER
 DENSITY = 10.26 Lbs/Gal
 HARDNESS = 70±5
 TENSILE STRENGTH = 905 PSI
 ELONGATION AT BREAK = 273%
 TEAR STRENGTH = 1.343 Kip/ft
 BRITTLINESS TEMPERATURE = -40° F
 COMPRESSION SET = 27% (22h@158°F)



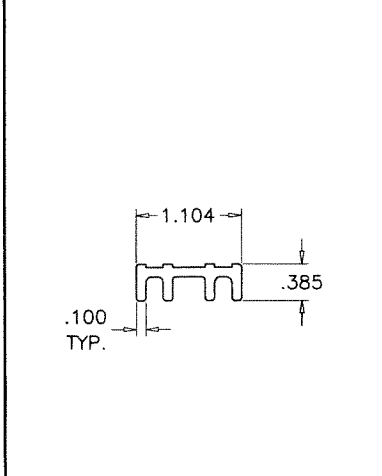
2 FRAME SILL



37 RESTRAINING PLATE

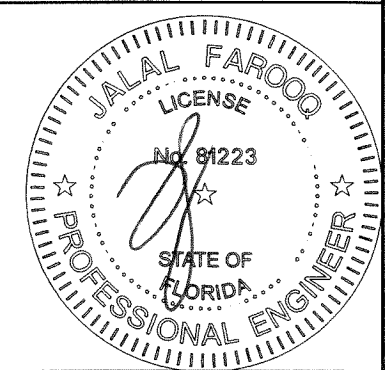


13 RETAINER CLIP



12 FIX. PANEL BOTTOM CLIP

PRODUCT APPROVED
 As complying with the Florida Building Code
 NOA-No. **25-0128.03**
 Approval Date: **02/20/2025**
 By: *Manuel Perez*
 Miami-Dade Product Control
OCT 18 2024



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

SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description

date: 09-30-24
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:
 drawing no. **24-65D**
 sheet 12 of 13

COMP-ANL\24-65D-ES

