



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)

Labrador & Fundora Corp. dba V & V Windows
14150 NW 56th Court, Suite 600
Opa-Locka, FL 33054

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 “410” Aluminum Project Out Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **23-45D**, titled “Series-410 Aluminum Project Out Wdw. (L.M.I.)”, sheets 1 through 9 of 9, dated 10/03/23, with revision A dated 05/21/24, 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, city, state, 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.

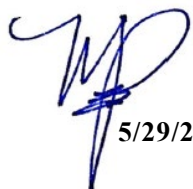
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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.**




 5/29/24

NOA No. 24-0425.03
Expiration Date: May 30, 2029
Approval Date: May 30, 2024
 Page 1

Labrador & Fundora Corp. dba V & V Windows

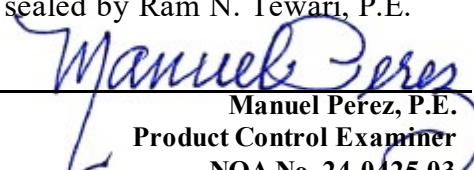
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 24-0425.03)
2. Drawing No. **23-45D**, titled "Series-410 Aluminum Project Out Wdw. (L.M.I.)", sheets 1 through 9 of 9, dated 10/03/23, with revision A dated 05/21/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. Test reports on: 1) Drop Load Test, per ANSI Z97.1, Class A, 400 ft-lb energy impact
2) Drop Load Test, per CPCS 16 CFR CHII Part 1201 (Class A)
along with marked-up drawings and installation diagram of an aluminum project-out window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-24-8151** (and **HETI-24-8152**), dated 05/17/24, signed and sealed by Ram N. Tewari, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum project-out window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-23-8042**, dated 10/11/23, signed and sealed by Ram N. Tewari, P.E.
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 2411.3.2.1, 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 an aluminum project-out window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-23-8044**, dated 10/11/23, signed and sealed by Ram N. Tewari, P.E.
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 2411.3.2.1, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Drop Load Test, per ANSI Z97.1, Class A, 400 ft-lb energy impact.
along with marked-up drawings and installation diagram of an aluminum project-out window with flush adapter, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-23-8075**, dated 10/11/23, signed and sealed by Ram N. Tewari, P.E.


Manuel Pérez, P.E.
Product Control Examiner
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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 8th Edition (2023) dated 04/22/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-16**

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.
2. Notice of Acceptance No. **23-0713.18** issued to **Eastman Chemical Company (MA)** for their “**Saflex® PVB Clear and Colored Interlayers for Laminated Glass**” dated 08/17/23, expiring on 05/21/2626.

F. STATEMENTS

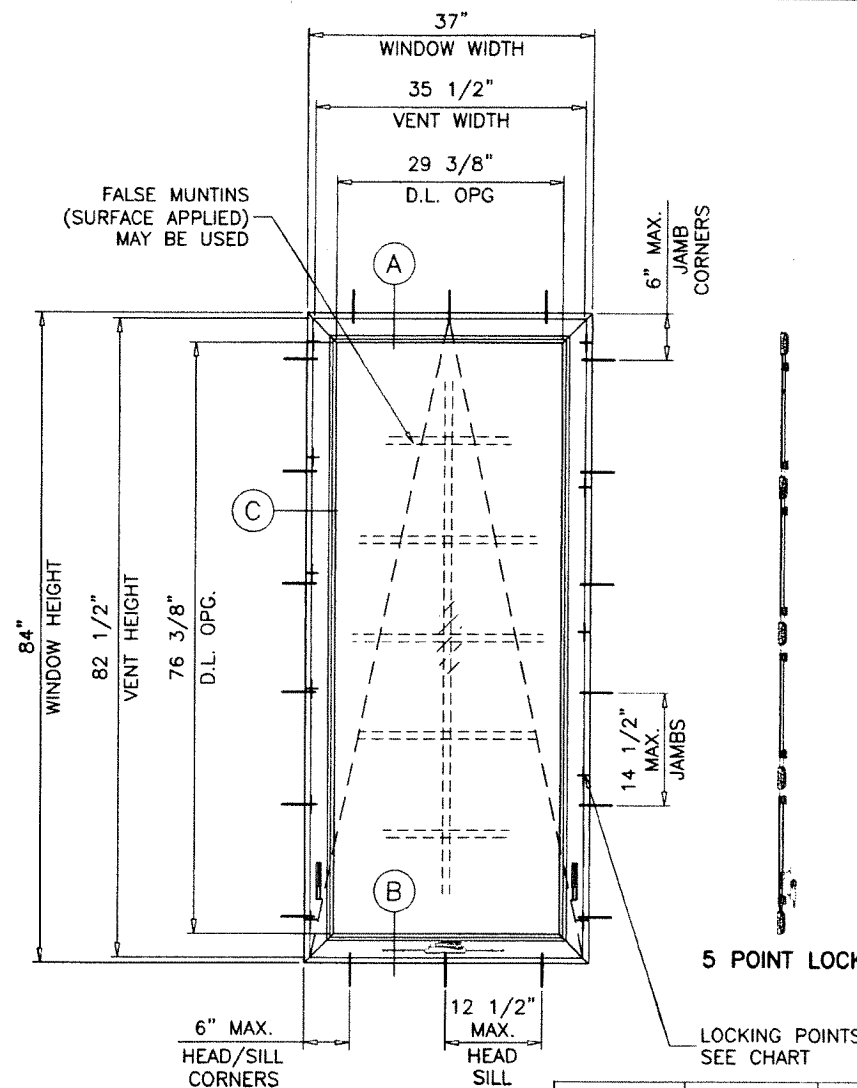
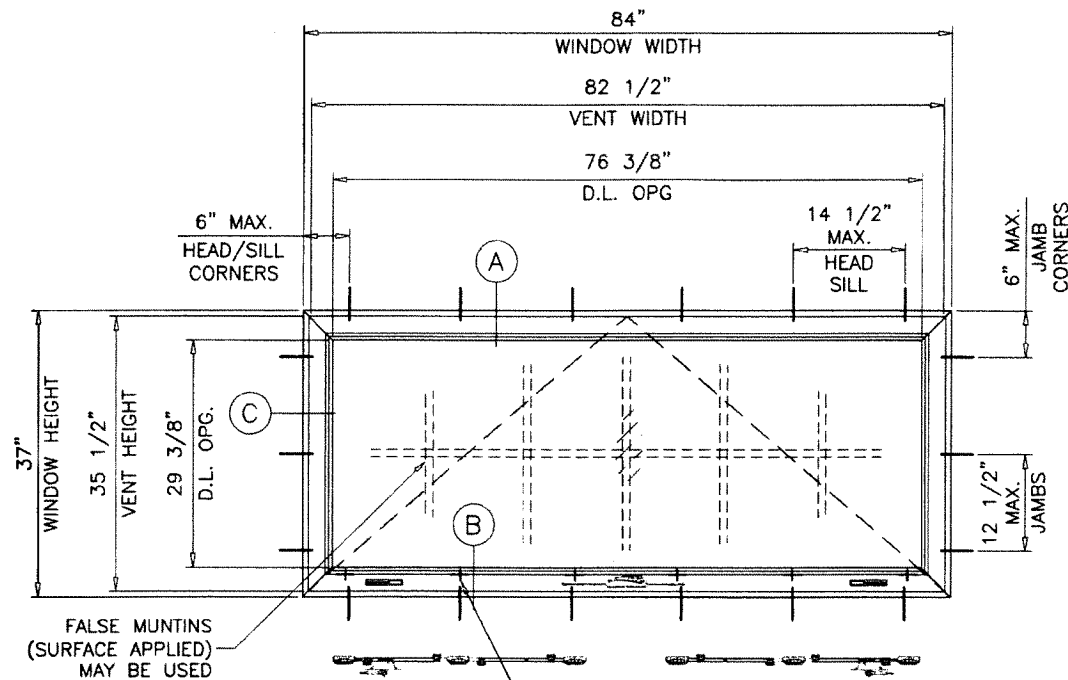
1. Statement letter of conformance, complying with **FBC 8th Edition (2023)** and of no financial interest, dated April 22, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Proposal No. **21-1411** issued by the Product Control Section, dated 11/24/21, signed by Manuel Perez, P.E., Product Control Examiner.

G. OTHERS

1. None.



Manuel Pérez, P.E.
Product Control Examiner
NOA No. 24-0425.03
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WDW. WIDTH UPTO	WDW. HEIGHT UPTO	NO. OF LOCK POINTS AT SASH	LOAD CAPACITY PSF
44"	37"	4	85.0
56"			85.0
66"	46"	6	72.1
67"			85.0
84"	37"		85.0

WDW. WIDTH UPTO	WDW. HEIGHT UPTO	NO. OF LOCK POINTS AT SASH	LOAD CAPACITY PSF
37"	28"	2	85.0
	34"	3	85.0
	40"		85.0
	46"		85.0
	52"	4	85.0
	58"		85.0
84"	5	85.0	

TYPICAL ELEVATIONS
TESTED UNITS

(4) LOCK GUIDES AT 6" O.C. INSIDE & OUTSIDE IN ALTERNATING DIRECTION ONLY FOR COMPLIANCE WITH ANSI Z97.1

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

GLASS TYPES 'G1L' & 'G1i' COMPLY WITH REQUIREMENTS OF ANSI Z97.1 (HUMAN IMPACT). SAFEGUARD REQUIREMENTS TO BE VERIFIED.

SERIES-410
ALUMINUM PROJECT-OUT AWNING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

APPROVAL APPLIES TO SINGLE AWNING UNITS AND SIDE BY SIDE COMBINATIONS OF AWNING/AWNING IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.

ALSO TOP & BOTTOM COMBINATIONS OF AWNING/AWNING OR FIXED/FIXED IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.

ALSO SIDE BY SIDE OR TOP AND BOTTOM COMBINATIONS OF AWNING WITH SERIES 450 FIXED WDW. IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION NOA 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.

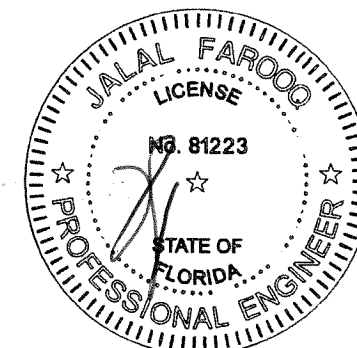
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

NOTE:
GLASS CAPACITIES 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. **24-0425.03**
Approval Date: **05/30/2024**
By: *Manuel Perez*
Miami-Dade Product Control

MAY 28 2024



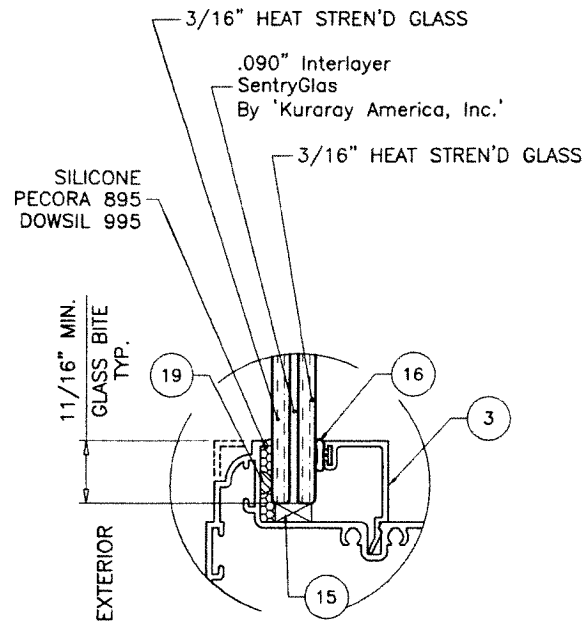
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538
COMP-ANL\23-45D-W

SERIES-410 ALUMINUM PROJECT OUT WDW. (L.M.I.)
Labrador & Fundora Corp.
dba-V & V Windows
2355 West 4th Ave.
Hialeah, FL 33010
TEL. (305) 888-4151 FAX. (305) 888-1042

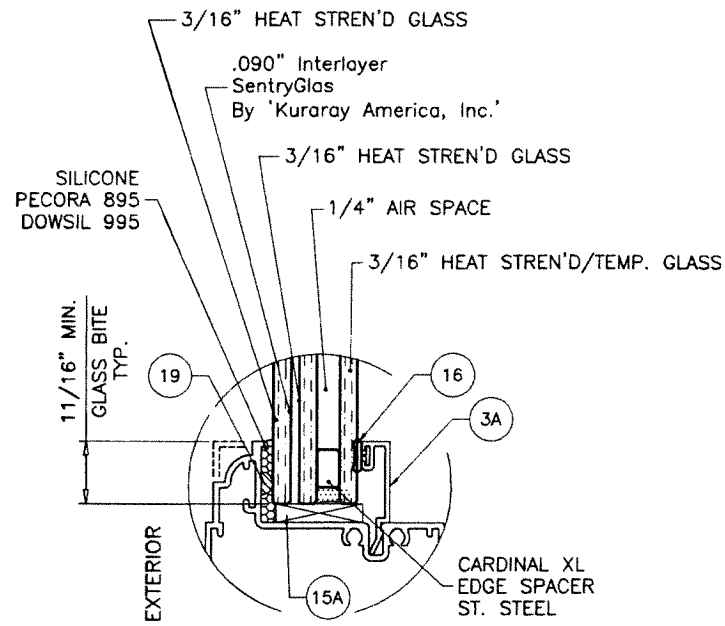
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chk. by:

drawing no.
23-45D
sheet 1 of 9

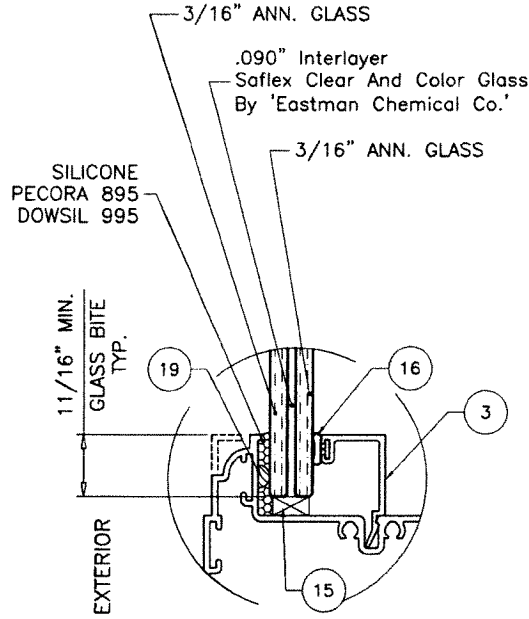


GLASS TYPE 'G1L'
7/16" OVERALL NOM.

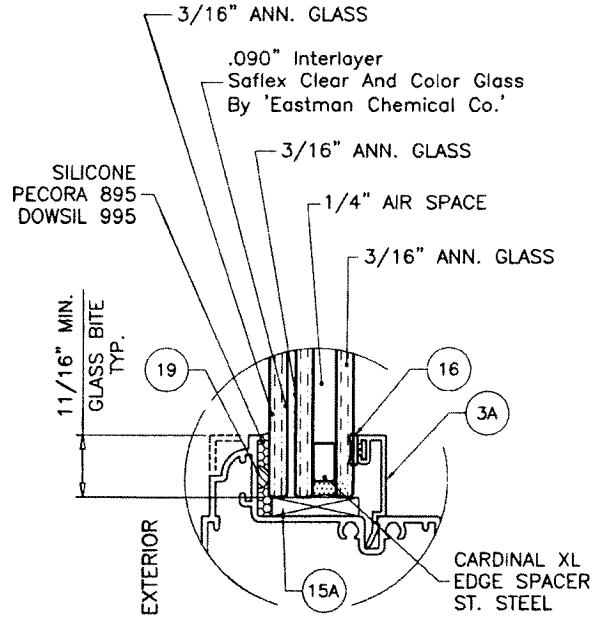


GLASS TYPE 'G1i'
1" OVERALL NOM.

GLASS TYPES 'G1L' & 'G1i'
MAXIMUM DESIGN LOAD RATING = + 85.0 PSF
(FOR SIZES SHOWN ON SHEET 1 OR SMALLER) - 85.0 PSF



GLASS TYPE 'G2L'
7/16" OVERALL NOM.

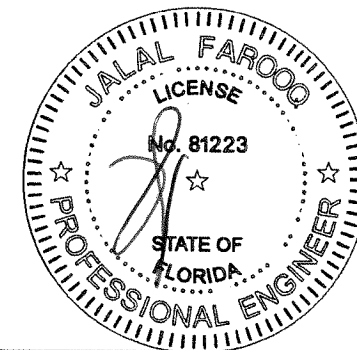


GLASS TYPE 'G2i'
1" OVERALL NOM.

GLASS TYPES 'G2L' & 'G2i'
MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
(FOR SIZES SHOWN ON SHEET 1 OR SMALLER) - 75.0 PSF

GLAZING OPTIONS

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Miami-Dade Product Control



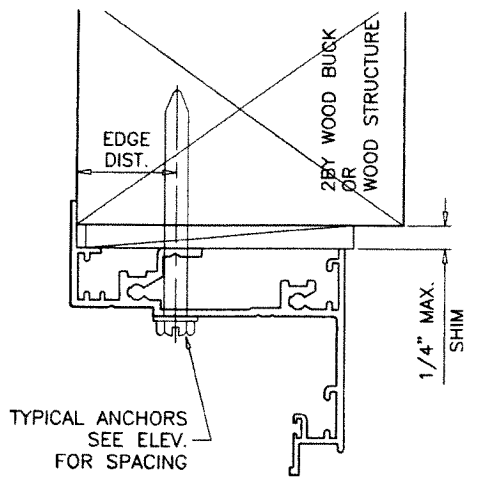
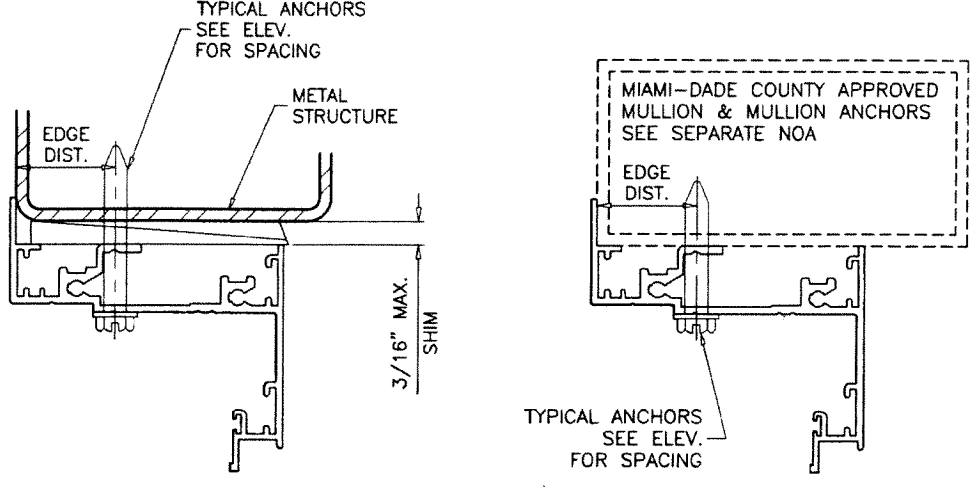
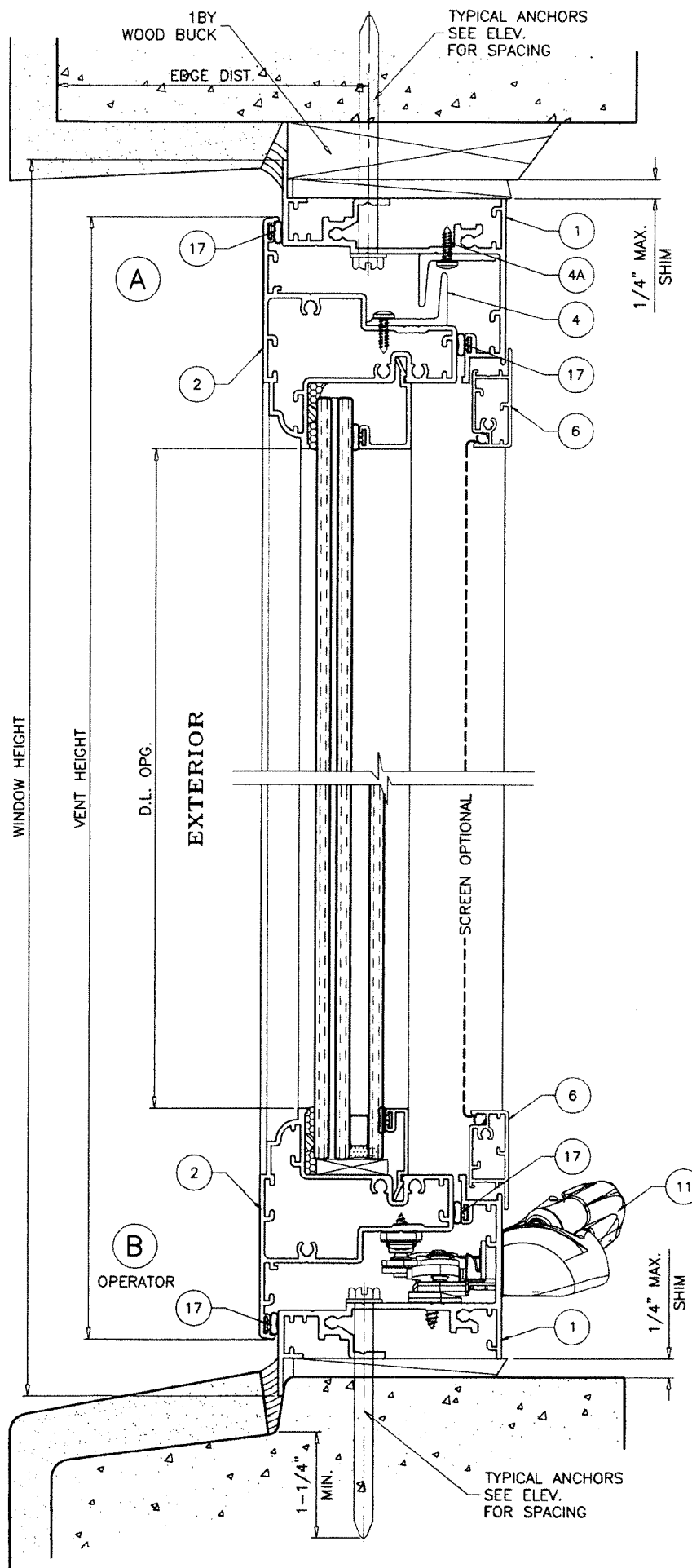
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
WWW.AFCENG.COM
TEL. (305) 264-8100
FBPE # 8538
COMP-ANL\23-45D-W

SERIES-410 ALUMINUM PROJECT OUT WDW. (L.M.I.)
Labrador & Fundora Corp.
dba-V & V Windows
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Hialeah, Fl. 33010
TEL. (305) 888-4151 FAX. (305) 888-1042

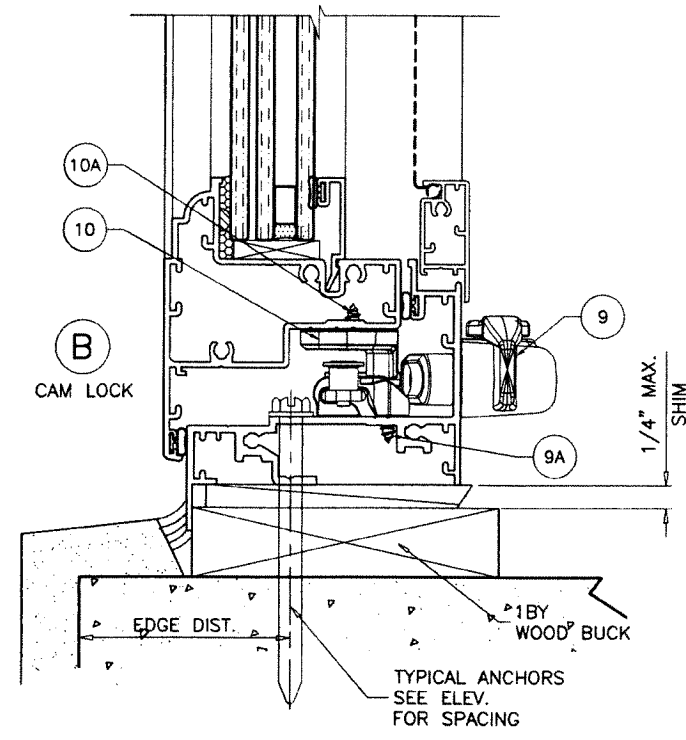
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chk. by:

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sheet 2 of 9



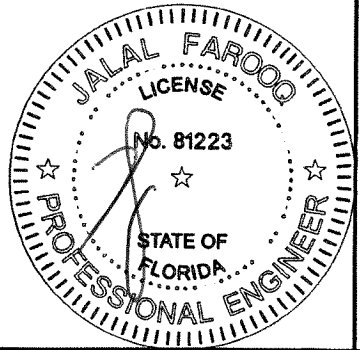
WOOD BUCKS AND METAL STRUCTURE NOT BY 'V & V WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
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 (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIM SPACE)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (NO SHIM SPACE)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
Ed = TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 WOOD AT HEAD, SILL 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.

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MAY 28 2024



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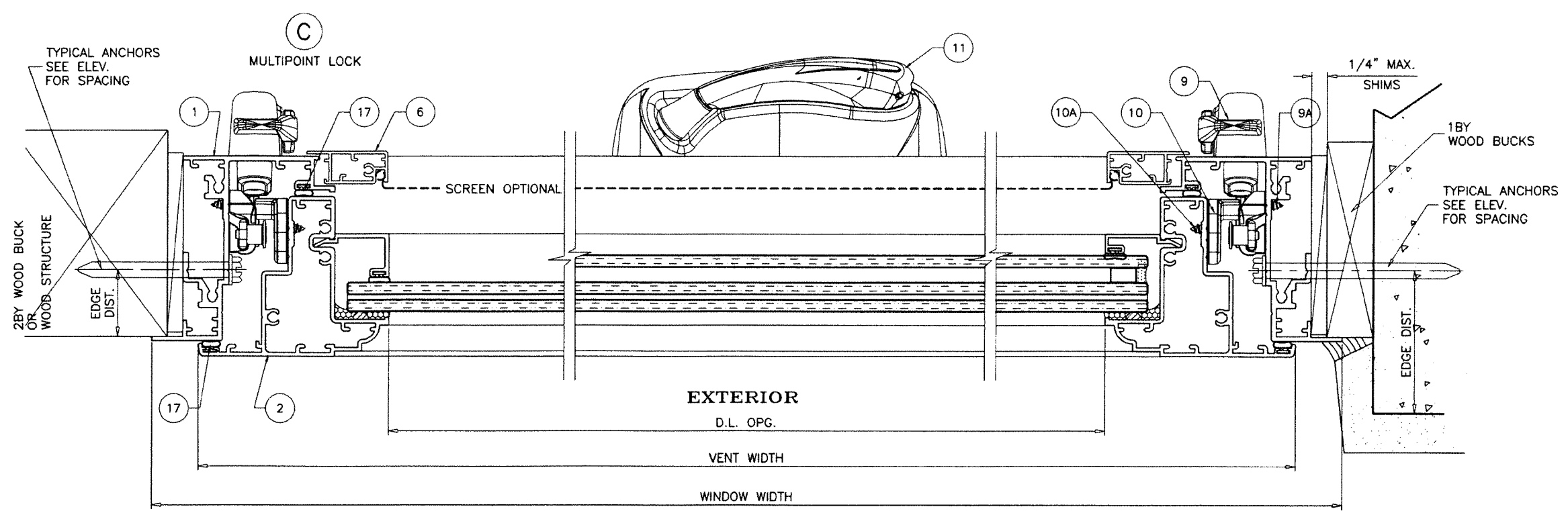
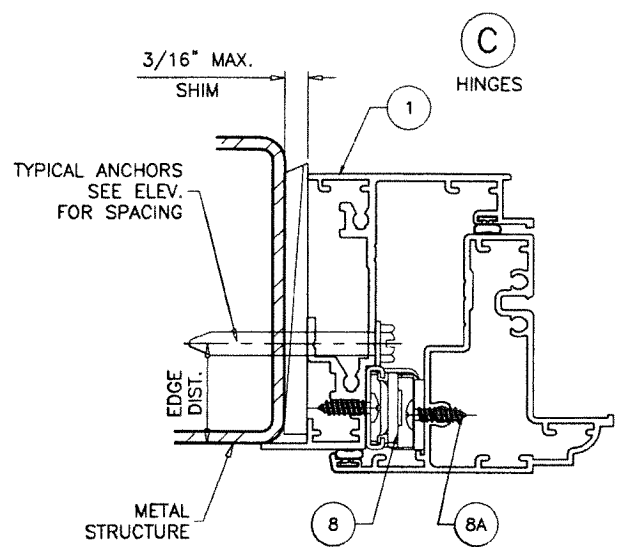
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 chk. by:

drawing no.
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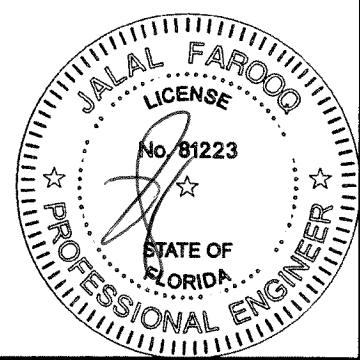
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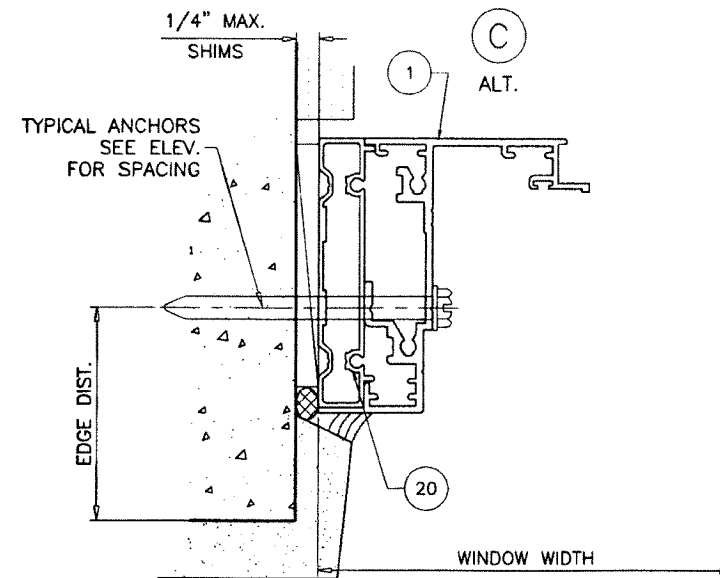
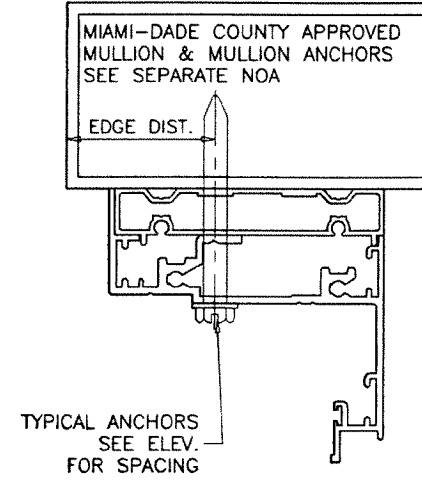
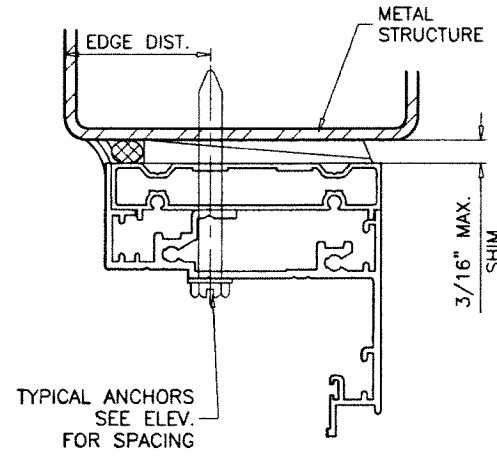
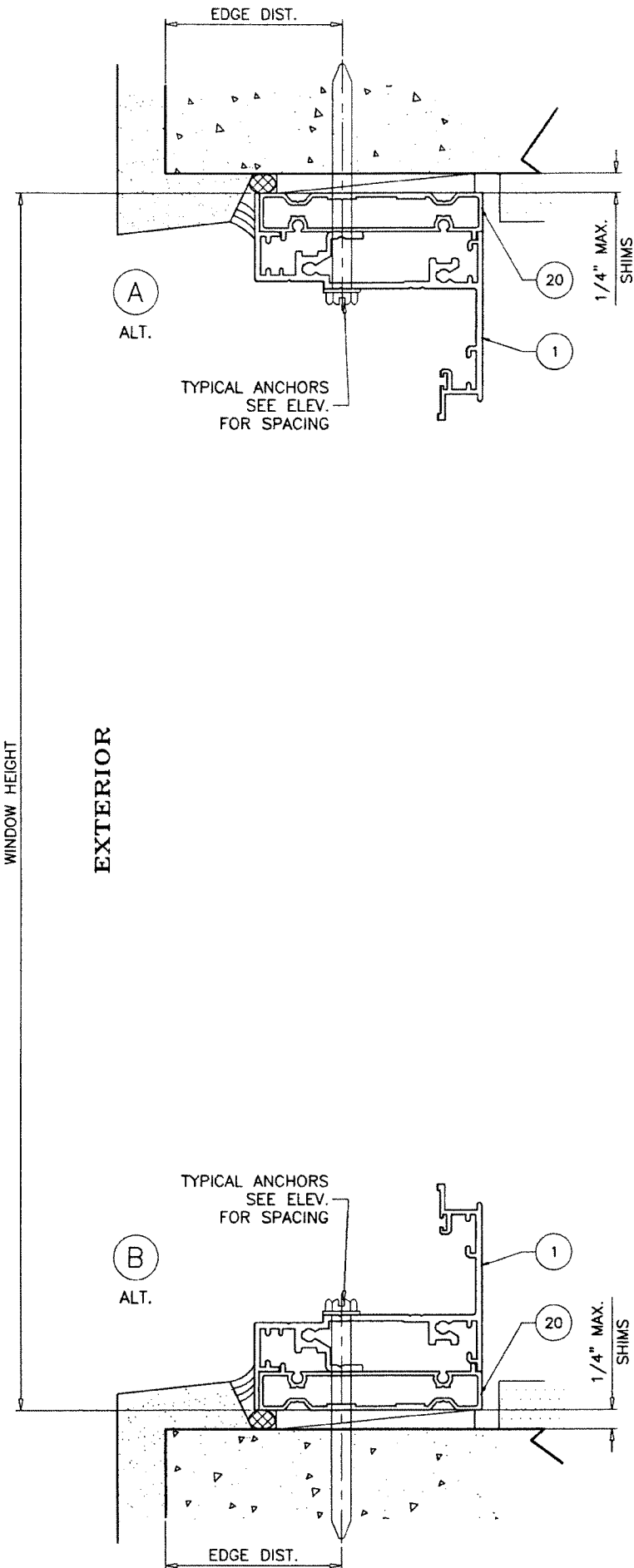
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 sheet 4 of 9

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WINDOW HEIGHT

EXTERIOR

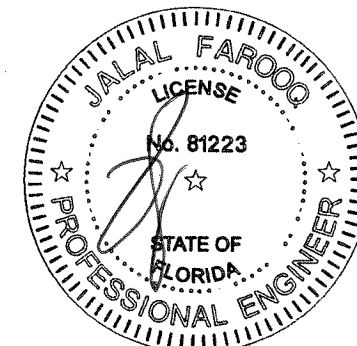


INSTALLATION DETAILS WITH FLUSH FRAME ADAPTERS

SEE SHEETS 3 & 4 FOR WINDOW DETAILS

MAY 28 2024

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 By: *Manuel Ferrer*
 Miami-Dade Product Control



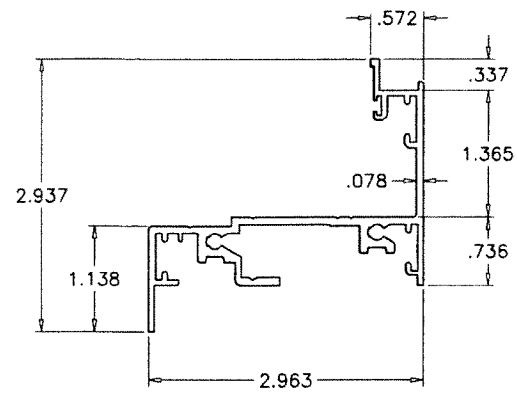
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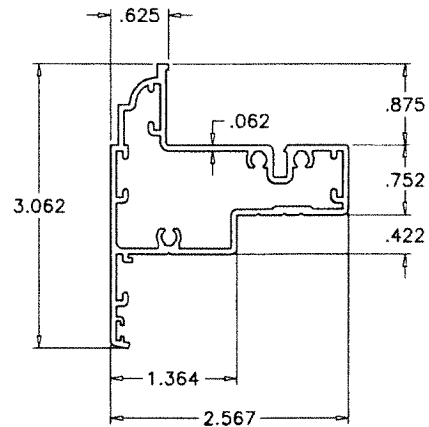
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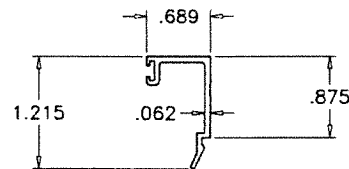
drawing no.
23-45D
 sheet 5 of 9



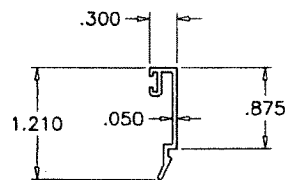
1 CASEMENT FRAME HEAD/SILL/JAMB



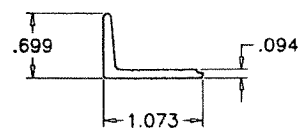
2 VENT



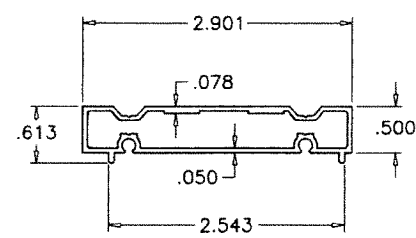
3 GLAZING BEAD (LAM. GLASS)



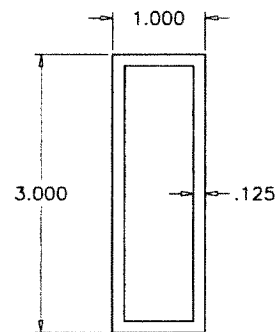
3A GLAZING BEAD (INSUL. LAM. GLASS)



4 FRAME & VENT SNUBBER



20 FLUSH FRAME ADAPTER



21 MULLION

LOCK OPTION #1:

(2) 3 POINT LOCK SYSTEM #CLO2 BY 'INTERLOCK' AT FRAME SILL
 LOCK OPERATOR #CLO2-0600 AT 9" FROM EACH JAMB
 FASTENED TO SILL WITH (2) #10 X 1/2" PPH SELF TAPPING SCREWS
 LOCK BAR SECURED TO JAMB WITH LOCK GUIDES #CLO2-2035-00E
 SPACED AT 6" O.C. MAX.
 EACH GUIDE FASTENED WITH (3) #8 X 1/2" PFH SELF TAPPING SCREWS

PLASTIC KEEPERS #CLO2-2046-030 AT VENT
 EACH FASTENED WITH (4) #8 X 1/2" PFH SELF TAPPING SCREWS

LOCK OPTION #2:

5 POINT LOCK SYSTEM #CLO2 BY 'INTERLOCK' AT FRAME JAMBS
 LOCK OPERATOR #CLO2-0600 AT 10" FROM SILL
 FASTENED TO JAMBS WITH (2) #10 X 1/2" PPH SELF TAPPING SCREWS
 LOCK BAR SECURED TO JAMB WITH LOCK GUIDES #CLO2-2035-00E
 SPACED AT 6" O.C. MAX.
 EACH GUIDE FASTENED WITH (3) #8 X 1/2" PFH SELF TAPPING SCREWS

PLASTIC KEEPERS #CLO2-2046-030 AT VENT
 EACH FASTENED WITH (4) #8 X 1/2" PFH SELF TAPPING SCREWS

HINGES:

5 BAR ST/ST HINGES #304CJ200-16AE BY 'SULLIVAN & ASSOC.'
 LOCATED AT FRAME JAMB AND VENT TOP CORNERS
 FASTENED WITH (2) #10 X 1/2" PPH SELF TAPPING SCREWS

OPERATOR:

'NOVA' AWNING OPERATOR #C011-152-02 BY 'INTERLOCK'
 LOCATED AT MIDSPAN OF FRAME SILL
 FASTENED WITH (6) #8 X 5/8" PFH SELF TAPPING SCREWS
 OPERATOR TRACK AT BOTTOM RAIL
 FASTENED WITH (3) #8 X 5/8" PFH SELF TAPPING SCREWS

SNUBBERS:

ALUMINUM SNUBBERS AT FRAME HEAD AND VENT TOP RAIL
 LOCATED AT 4" FROM EACH END
 FASTENED WITH #8 X 1/2" SMS AT 1-1/4" FROM EACH END
 AND 6" O.C. MAX.

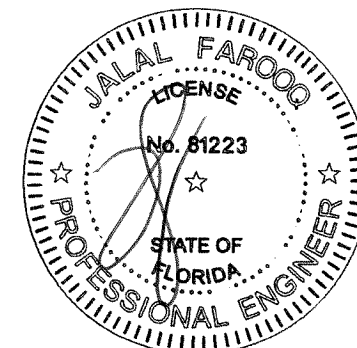
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	V401	4/ WDW.	FRAME HEAD/SILL/JAMB	6063-T6	-
2	V402	4/ WDW.	VENT	6063-T6	-
3	V405	4/ WDW.	GLAZING BEAD (LAM. GLASS)	6063-T5	-
3A	V406	4/ WDW.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T5	-
4	V407	AS REQD.	VENT AND FRAME SNUBBERS	6063-T6	LENGTH = FRAME WIDTH - 8"
4A	#8 X 1/2"	AS REQD.	SNUBBER MOUNTING SCREWS	ST. STEEL	PPH SMS
6	V409	AS REQD.	SCREEN	6063-T5	OPTIONAL
8	-	2	4 BAR HINGE AT TOP CORNERS	ST. STEEL	SULLIVAN & ASSOC.
8A	#10 X 1/2"	2/ HINGE	HINGE INSTALLATION SCREWS	ST. STEEL	PPH STS
9	-	1	FACE MOUNT MULTI POINT LOCK	ST. STEEL	INTERLOCK
9A	#8 X 1/2"	2/ LOCK	LOCK INSTALLATION SCREWS	ST. STEEL	THREAD FORMING SCREWS
10	-	1	LOCK KEEPER FACING LOCK	-	INTERLOCK
10A	#8 X 1/2"	2/ KEEPER	KEEPER INSTALLATION SCREWS	ST. STEEL	THREAD FORMING SCREWS
11	-	1	VENT OPERATOR	-	INTERLOCK
11A	#10 X 1/2"	6/ OPERATOR	OPERATOR INSTALLATION SCREWS	ST. STEEL	FH MS
11B	#10 X 1/2"	3/ TRACK	OPERATOR TRACK INSTALLATION SCREWS	ST. STEEL	FH MS
12	PJ540-SS	AS REQD.	CORNER KEY	ST. STEEL	SULLIVAN & ASSOC.
13	#10 X 1-1/4"	AS REQD.	FRAME AND VENT ASSEMBLY SCREWS	CRS	PH SMS
15	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 80±5 SHORE A
15A	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 80±5 SHORE A
16	-	AS REQD.	GLAZING GASKET	VINYL	CENTRAL PLASTICS, DUROMETER 65±5 SHORE A
17	9146	AS REQD.	FRAME & VENT W'STRIPPING	VINYL	CENTRAL PLASTICS, DUROMETER 65±5 SHORE A
19	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE, DUROMETER 65±5 SHORE A
20	V408	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
21	-	AS REQD.	TUBE MULLION	6063-T6	-

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH 'PECORA 1215' SEAM SEALER.

PRODUCT APPROVED
 As complying with the Florida Building Code
 NOA-No. **24-0425.03**
 Approval Date: **05/30/2024**
 By: *Manuel Perez*
 Miami-Dade Product Control

MAY 28 2024



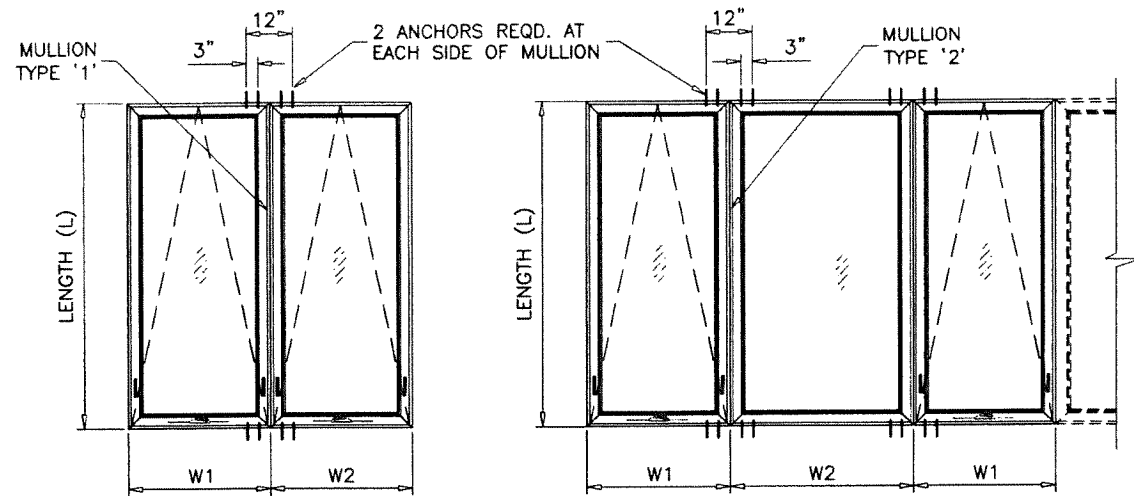
afC
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 WWW.AFCENG.COM
 COMP-ANL\23-45D-WV
 P/B/P/E #9538

SERIES-410 ALUMINUM PROJECT OUT WDW. (L.M.I.)
 Labrador & Fundora Corp.
 dba-V & V Windows
 2355 West 4th Ave.
 Hialeah, FL 33010
 TEL. (305) 888-4151 FAX. (305) 888-1042

revisions:
 no. date by description
 A 05.21.24 LOCK OPTION #1 GUIDES REV.

date: 10-03-23
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no. **23-45D**
 sheet 6 of 9



TYPICAL ELEVATIONS

SIDE BY SIDE WINDOWS

SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

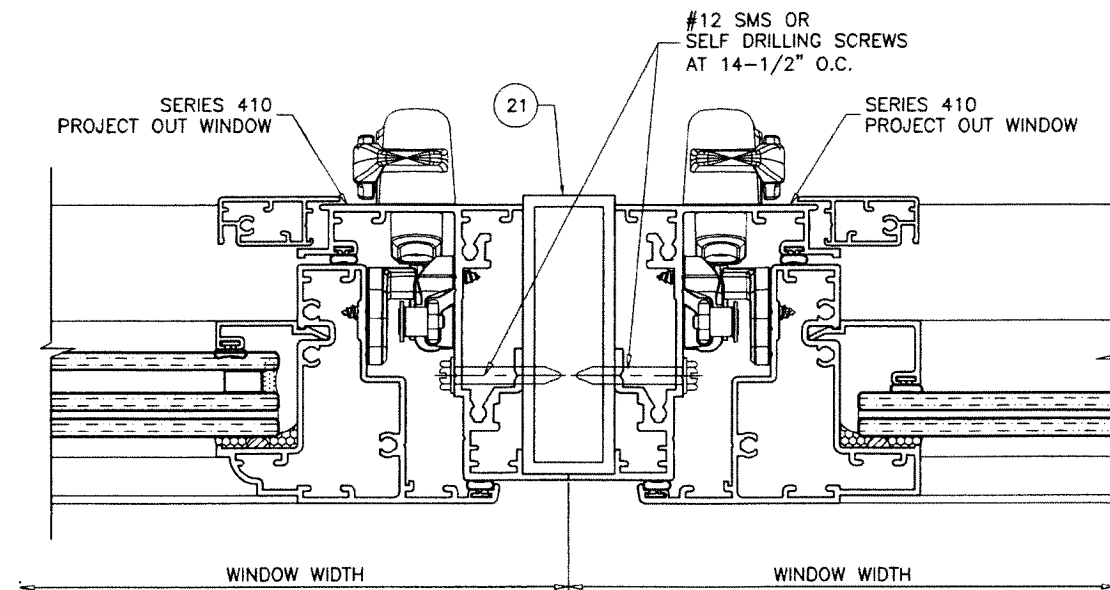
MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		MULLION TYPE '1'	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)
19-1/8"	80"	85.0	85.0
26-1/2"		85.0	85.0
37"		85.0	85.0
19-1/8"	84"	85.0	85.0
26-1/2"		85.0	85.0
37"		83.3	83.3
18"	84"	85.0	85.0
24"		85.0	85.0
30"		85.0	85.0
36"		85.0	85.0

MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		MULLION TYPE '2'	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)
31-3/4"	84"	85.0	85.0
37"		85.0	85.0
45-1/16"		85.0	85.0
48-1/2"		85.0	85.0
36"	84"	85.0	85.0
39"		85.0	85.0
42"		85.0	85.0
45"		85.0	85.0
48"		85.0	85.0

NOTES:

1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
2. FOR PROJECT OUT WINDOW CAPACITY SEE SHEET 1.
3. FOR FIXED WINDOWS CAPACITY SEE SEPARATE NOA.
4. LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.

UN-CLIPPED MULLIONS

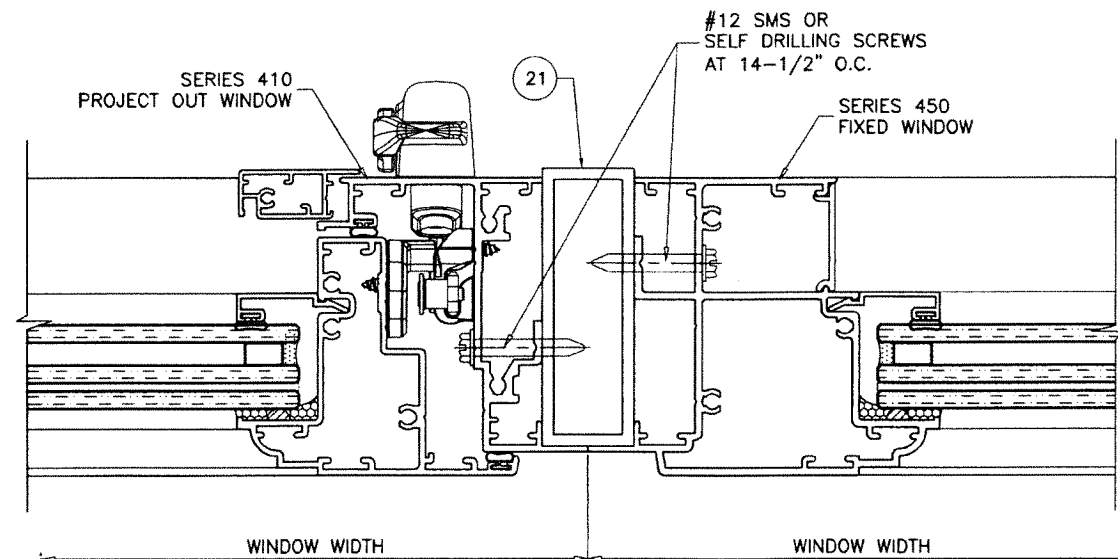


MULLION TYPE '1'

TOTAL PRPERTIES

Ix = 2.7522 IN⁴

Sx = 1.5718 IN³



MULLION TYPE '2'

TOTAL PRPERTIES

Ix = 3.4700 IN⁴

Sx = 1.9209 IN³

PRODUCT APPROVED

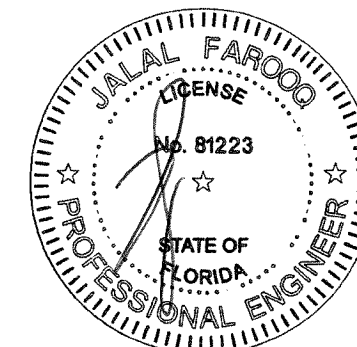
As complying with the Florida Building Code

NOA-No. **24-0425.03** MAY 28 2024

Approval Date: **05/30/2024**

By: *Manuel Perez*

Miami-Dade Product Control



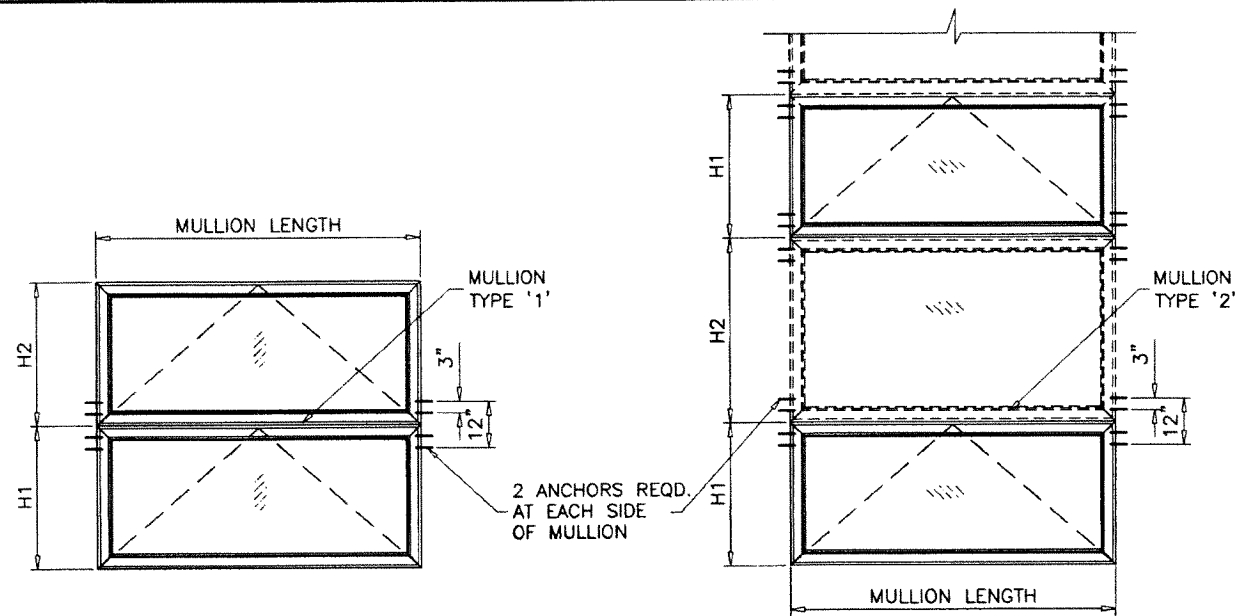
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AL-FAROOQ CORPORATION
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 FBPE #3538 COMP-ANL\23-45D-W

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revisions:	no	date	by	description
	A	05.21.24		NO CHANGE THIS SHEET

date: 10-03-23
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no. **23-45D**
 sheet 8 of 9



TYPICAL ELEVATIONS
SIDE BY SIDE WINDOWS
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

$$\text{HEIGHT (H)} = \frac{H1 + H2}{2}$$

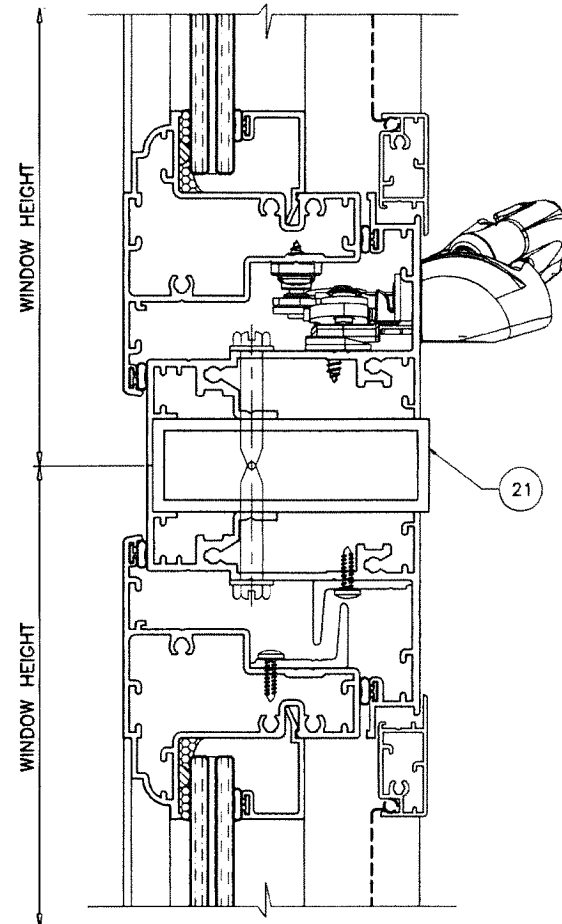
MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		MULLION TYPE '1'	
HEIGHT (H)	LENGTH (L)	EXT.(+)	INT.(-)
26"	80"	85.0	85.0
38-3/8"	80"	85.0	85.0
26"	84"	85.0	85.0
37"	84"	85.0	85.0
24"	84"	85.0	85.0
36"	84"	85.0	85.0

MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		MULLION TYPE '2'	
HEIGHT (H)	LENGTH (L)	EXT.(+)	INT.(-)
26"	80"	85.0	85.0
38-3/8"	80"	85.0	85.0
26"	84"	85.0	85.0
37"	84"	85.0	85.0
24"	84"	85.0	85.0
36"	84"	85.0	85.0

NOTES:

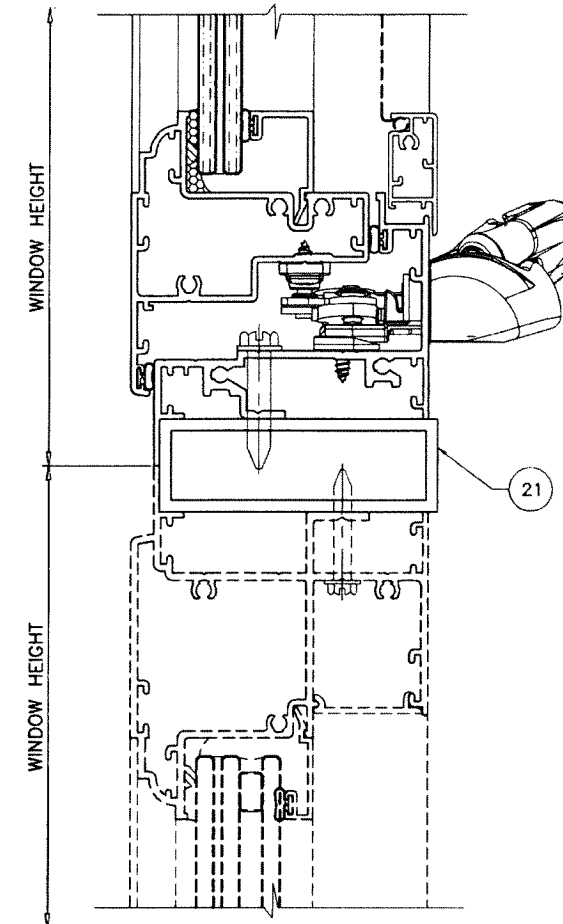
1. USE CHART ON THIS SHEET FOR TOP & BOTTOM CONNECTION CAPACITY OF WINDOW MULLION.
2. FOR PROJECT OUT WINDOW CAPACITY SEE SHEET 1.
3. FOR FIXED WINDOWS CAPACITY SEE SEPARATE NOA.
4. LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.

UN-CLIPPED MULLIONS



MULLION TYPE '1'

TOTAL PROPERTIES
Ix = 2.750 IN⁴
Sx = 1.683 IN³

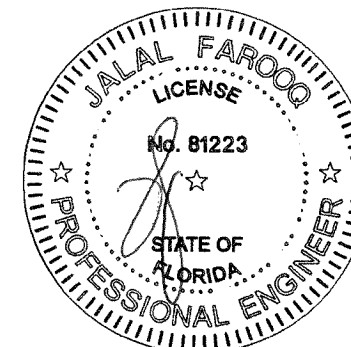


MULLION TYPE '2'

TOTAL PROPERTIES
Ix = 3.468 IN⁴
Sx = 2.054 IN³

PRODUCT APPROVED
As complying with the Florida Building Code
NOA-No. **24-0425.03**
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By: *Manuel Perez*
Miami-Dade Product Control

MAY 28 2024



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revisions:	no	date	by	description
	A	05.21.24		NO CHANGE THIS SHEET

date: 10-03-23
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dr. by: TARIO
chk. by:

drawing no.
23-45D
sheet 9 of 9