



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

NOTICE OF ACCEPTANCE (NOA)

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

Labrador & Fundora Corp. dba V & V Windows
2355 W 4th Avenue
Hialeah, FL 33010-1454

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 "350" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **19-19D**, titled "Series-350 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/18/19, with revision **B** dated 07/14/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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.

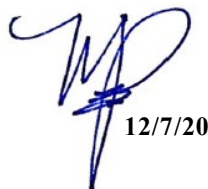
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 **revises NOA No. 19-0326.10** and 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.**




12/7/20

NOA No. 20-0929.13
Expiration Date: June 06, 2024
Approval Date: December 17, 2020
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 19-0326.10)
2. Drawing No. **19-19D**, titled "Series-350 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/18/19, with revision **A** dated 05/07/19, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 19-0326.10)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Safety Performance Test, (class A) per ANSI Z97.1
along with marked-up drawings and installation diagram of an aluminum fixed window, single and mulled, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1079**, dated 09/27/18, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 19-0326.10)

C. CALCULATIONS

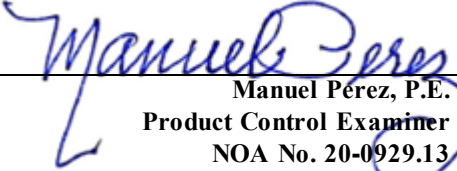
1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 01/16/19, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 19-0326.10)
2. Glazing complies with **ASTME1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.
2. Notice of Acceptance No. **17-0712.05** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 09/07/17, expiring on 05/21/21.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-0929.13
Expiration Date: June 06, 2024
Approval Date: December 17, 2020

Labrador & Fundora Corp. dba V & V Windows

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

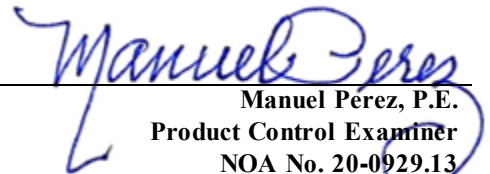
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

F. STATEMENTS

1. Statement letter of conformance to, of complying with **FBC 6th Edition (2017)** and of no financial interest, dated May 7, 2019, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Proposal No. **16-0476R** issued by Product Control Section, dated 05/23/16 and revised on 11/30/17, signed by Manuel Perez, P.E.

G. OTHERS

1. None


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0929.13

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Labrador & Fundora Corp. dba V & V Windows

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **19-19D**, titled “Series-350 Aluminum Fixed Wdw. (L.M.I.)”, sheets 1 through 7 of 7, dated 03/18/19, with revision **B** dated 07/14/20, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 01/16/19 and updated on 09/10/20 to comply with **FBC 7th Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

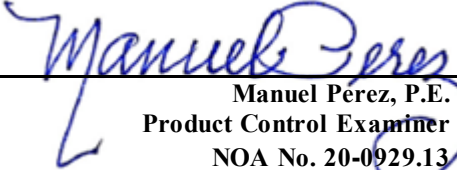
1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **20-0622.01** issued to **Eastman Chemical Company (MA)** for their “**Saflex PVB Clear and Color Glass Interlayers**” dated 08/06/20, expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, with **FBC 7th Edition (2020)** and of no financial interest, dated September 10, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **19-0326.10**, issued to Labrador & Fundora Corp. dba V & V Windows for their Series “350” Aluminum Fixed Window - L.M.I., approved on 06/06/19 and expiring on 06/06/24.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0929.13

Expiration Date: June 06, 2024
Approval Date: December 17, 2020

SERIES 350 ALUMINUM FIXED WINDOW WITH UNCLIPPED MULLION OPTIONS

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED CLIPPED MULLIONS IN BETWEEN.

FOR FIX./FIX. COMBINATIONS OF TWO OR MORE WINDOWS USING '1X3' AND '1X4' UNCLIPPED MULLION SEE CHART ON SHEET 6.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

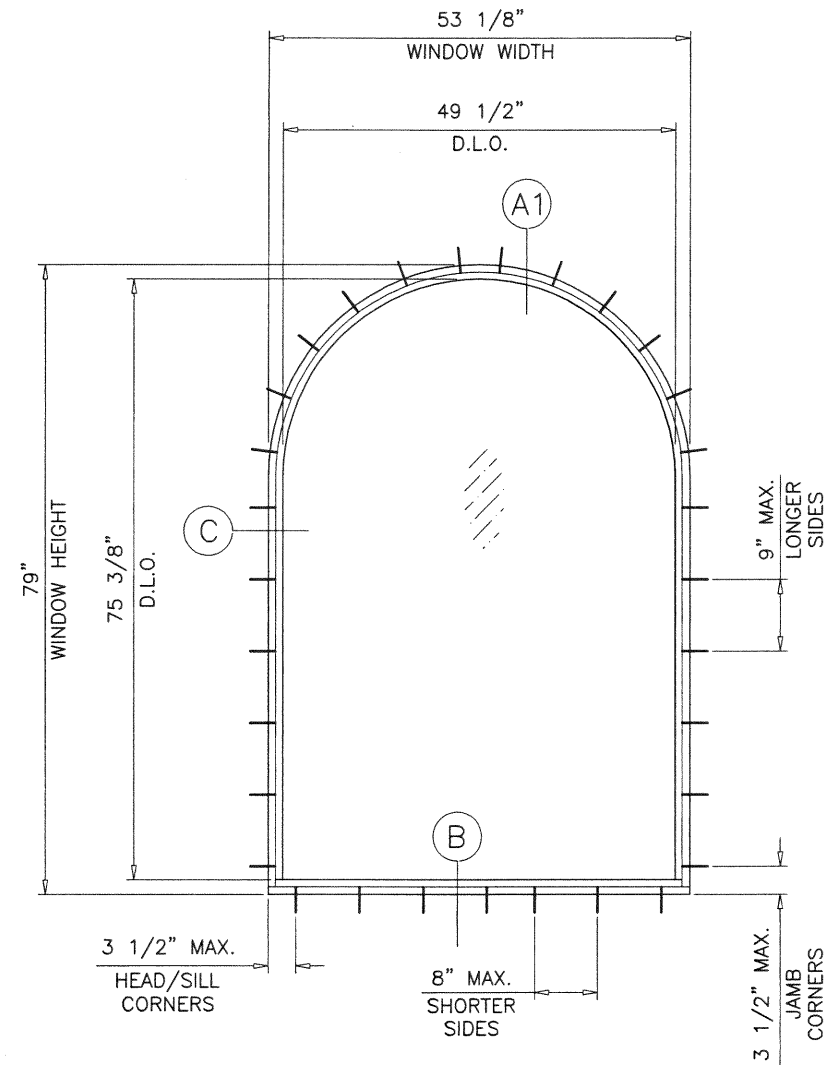
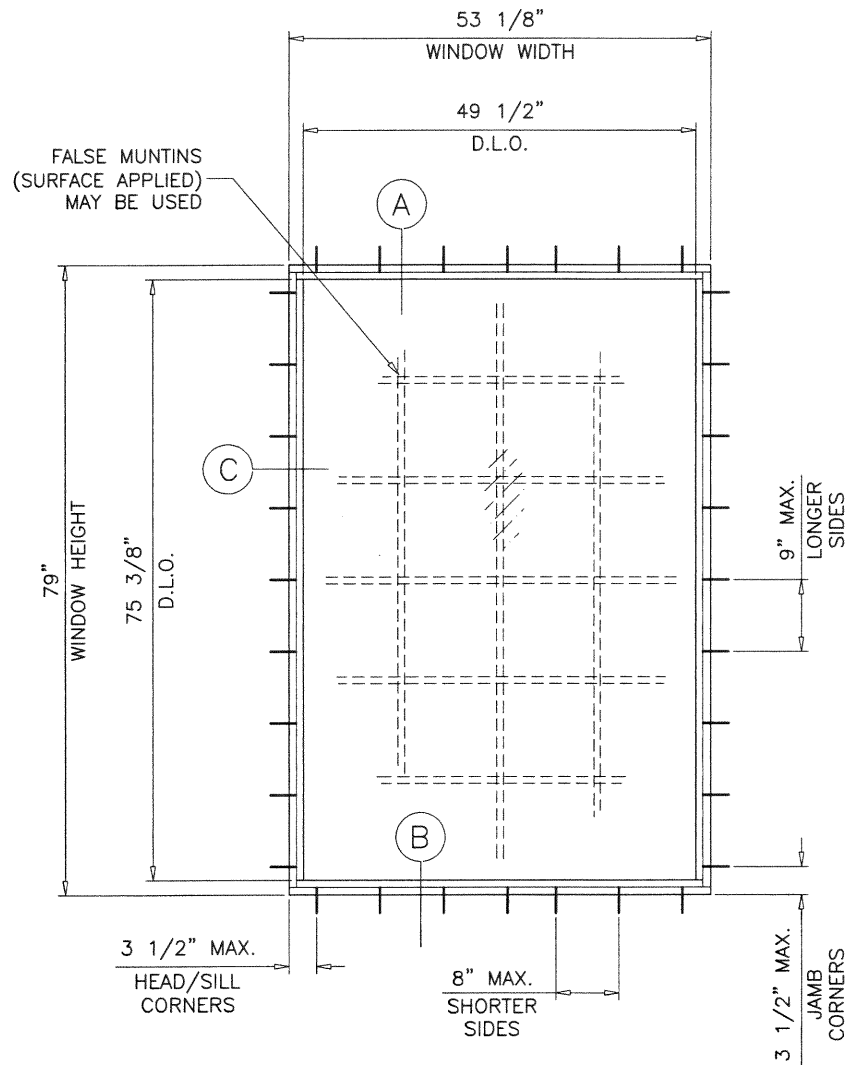
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

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

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



TYPICAL ELEVATIONS

GLASS D.L.O. DIMS.

D.L.O. HEIGHT = WINDOW HEIGHT - 3.625"

D.L.O. WIDTH = WINDOW WIDTH - 3.625"

WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

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

PRODUCT REVISED

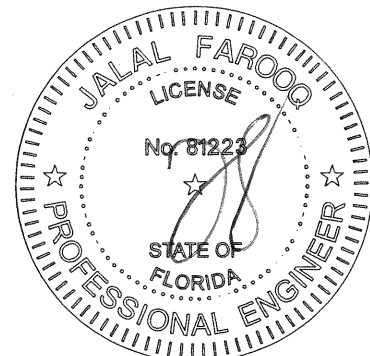
as complying with the Florida Building Code

NOA-No. **20-0929.13**

Expiration Date: **06/06/2024**

By: *Manuel Perez*

Miami-Dade Product Control



Sealed: 11/30/20

afc

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 19-19D-W

SERIES-350 ALUMINUM FIXED 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	B	05.07.19	07.14.20		NO CHANGE THIS SHEET
					UPDATED TO 2020 FBC

date: 03-18-19	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
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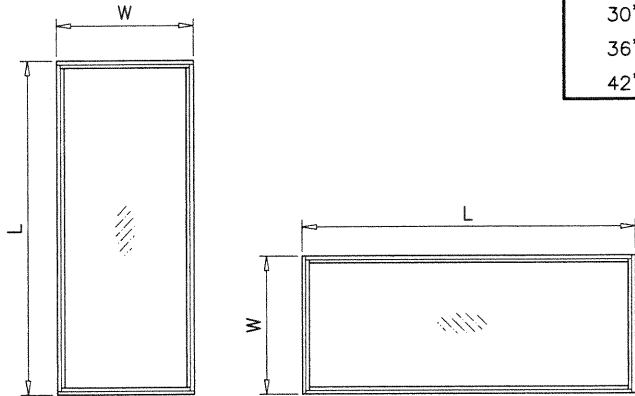
drawing no.

19-19D

sheet 1 of 7

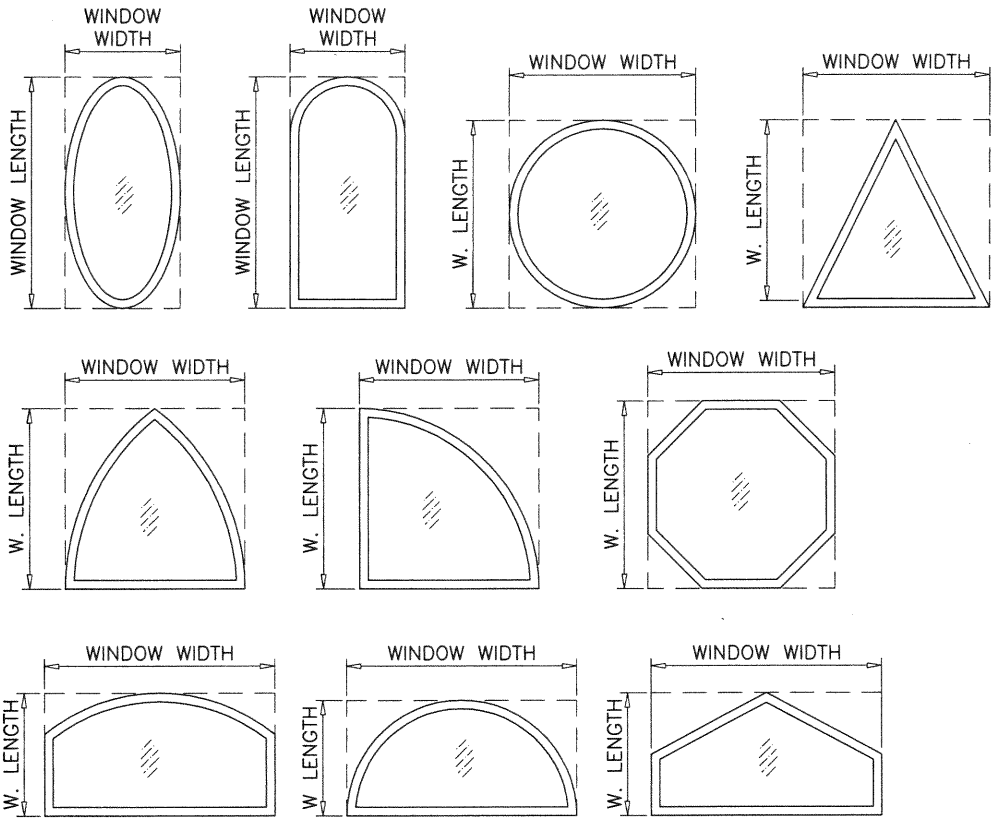
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi'	
WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
19-1/8"	63"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
53-1/8"		72.3	72.3	100.0	100.0
19-1/8"	76"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
53-1/8"		-	-	100.0	100.0
19-1/8"	79"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
53-1/8"		-	-	100.0	100.0
19-1/8"	84"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
19-1/8"	90"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
19-1/8"	96"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi'	
WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
30"	60"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5
30"	66"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5
30"	72"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
30"	78"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
30"	84"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
30"	90"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
30"	96"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0



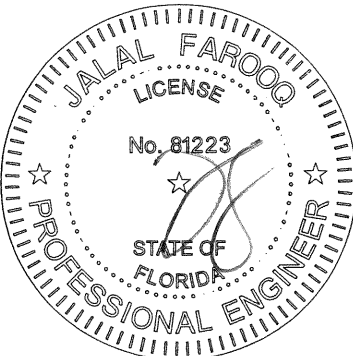
NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE
ORIENTED VERTICALLY OR HORIZONTALLY
AS SHOWN ABOVE.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE. OR SIMILAR CAN BE
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0929.13**
Expiration Date: **06/06/2024**
By: *Manuel Perez*
Miami-Dade Product Control



Sealed: 11/30/20

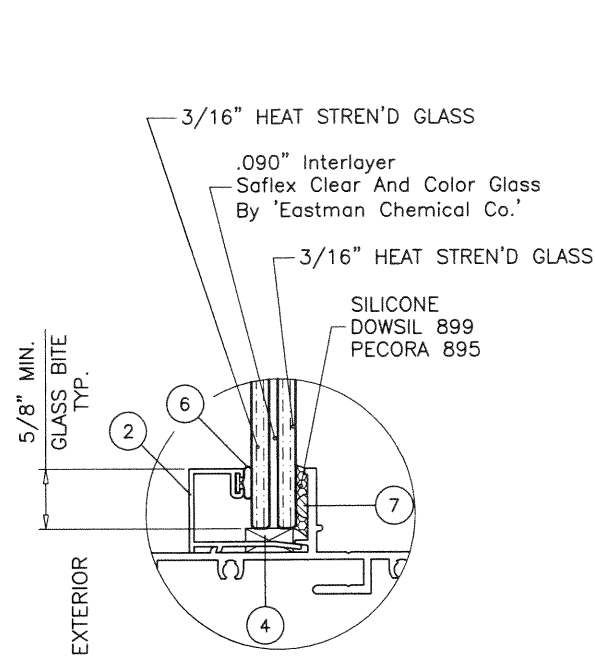
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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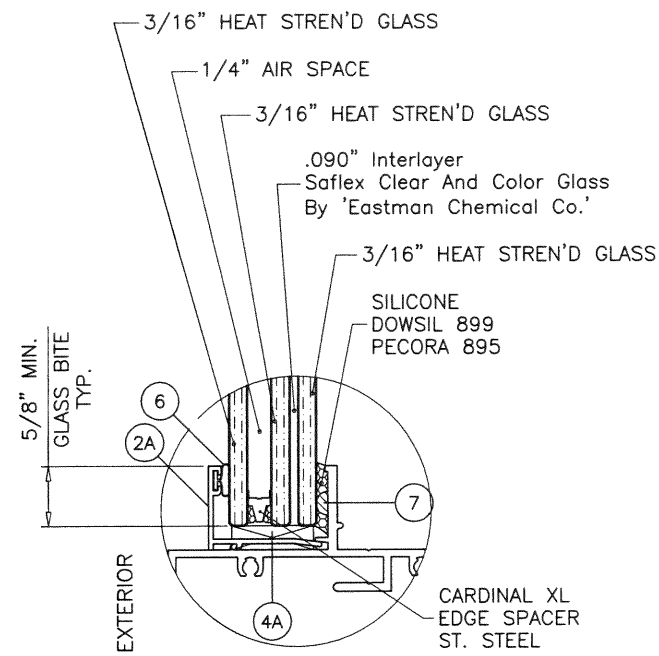
revisions:
no date by description
A 05.07.19 NO CHANGE THIS SHEET
B 07.14.20 EDITORIAL CHANGES

date: 03-18-19
scale: --
dr. by: TARIQ
chk. by:

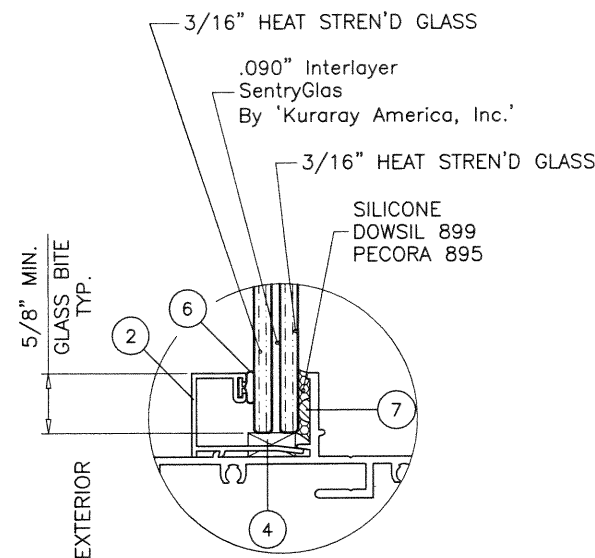
drawing no.
19-19D
sheet **2** of **7**



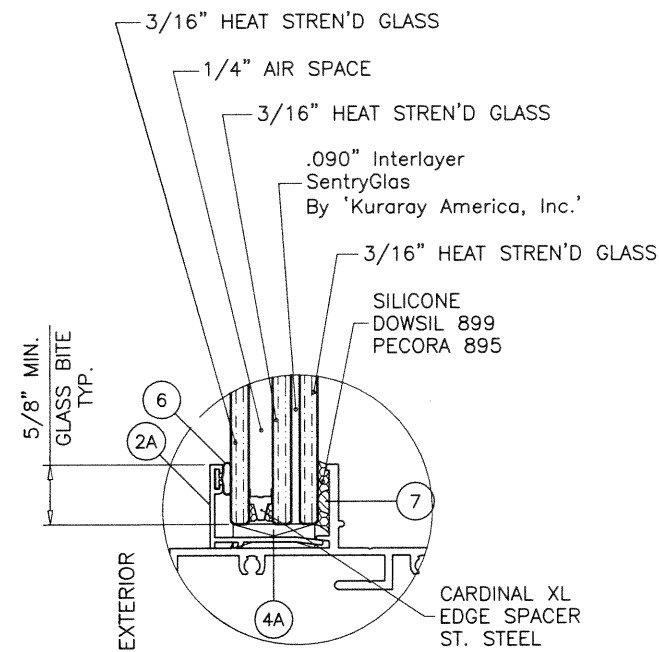
GLASS TYPE 'A'
7/16" OVERALL NOM.



GLASS TYPE 'Ai'
7/8" OVERALL NOM.

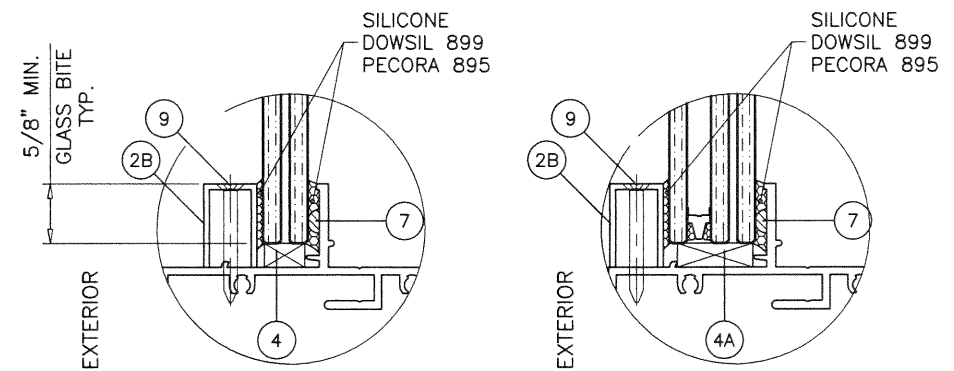


GLASS TYPE 'B'
7/16" OVERALL NOM.



GLASS TYPE 'Bi'
7/8" OVERALL NOM.

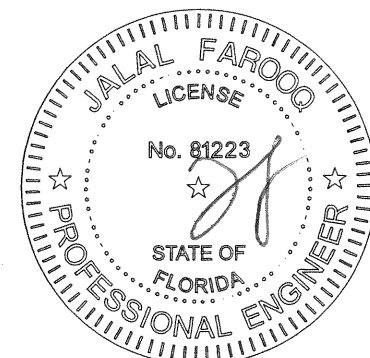
GLAZING OPTIONS



GLAZING DETAILS AT CIRCULAR FRAMES

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0929.13**
Expiration Date: **06/06/2024**
By: *Manuel Perez*
Miami-Dade Product Control

Sealed: 11/30/20



SERIES-350 ALUMINUM FIXED WDW. (L.M.I.)

Labrador & Fundora Corp.
dba-V & V Windows
2355 West 4th Ave.
Hialeah, FL 33010

TEL. (305) 888-4151

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revisions:

no	date	by	description
A	05.07.19	REV. PER RER COMMENTS	
B	07.14.20	EDITORIAL CHANGES	

date: 03-18-19

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

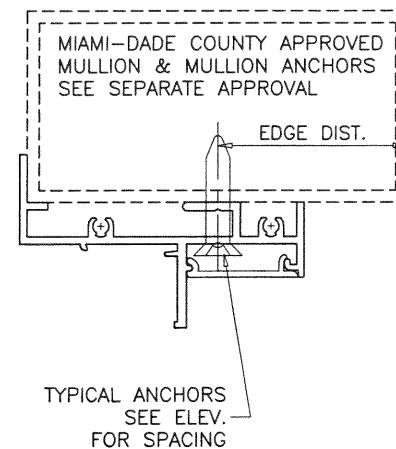
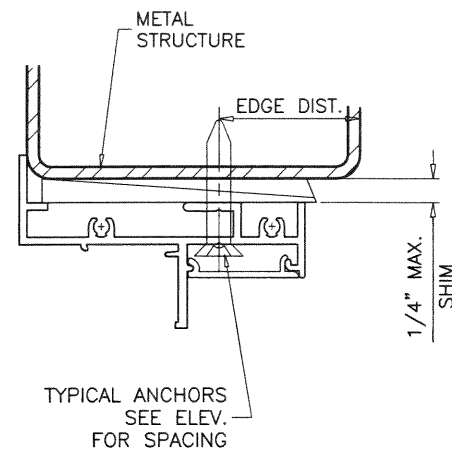
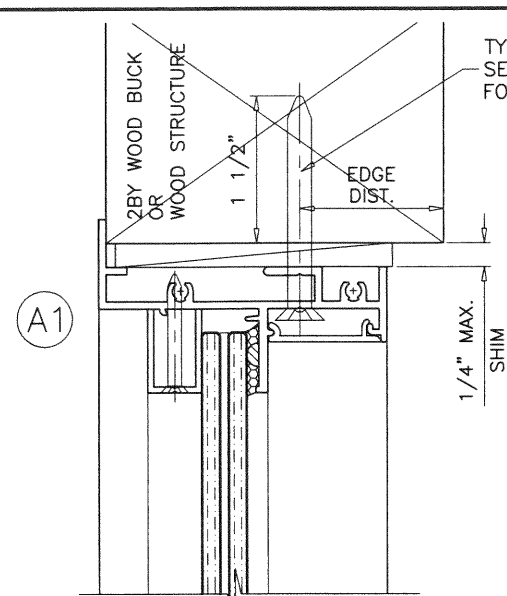
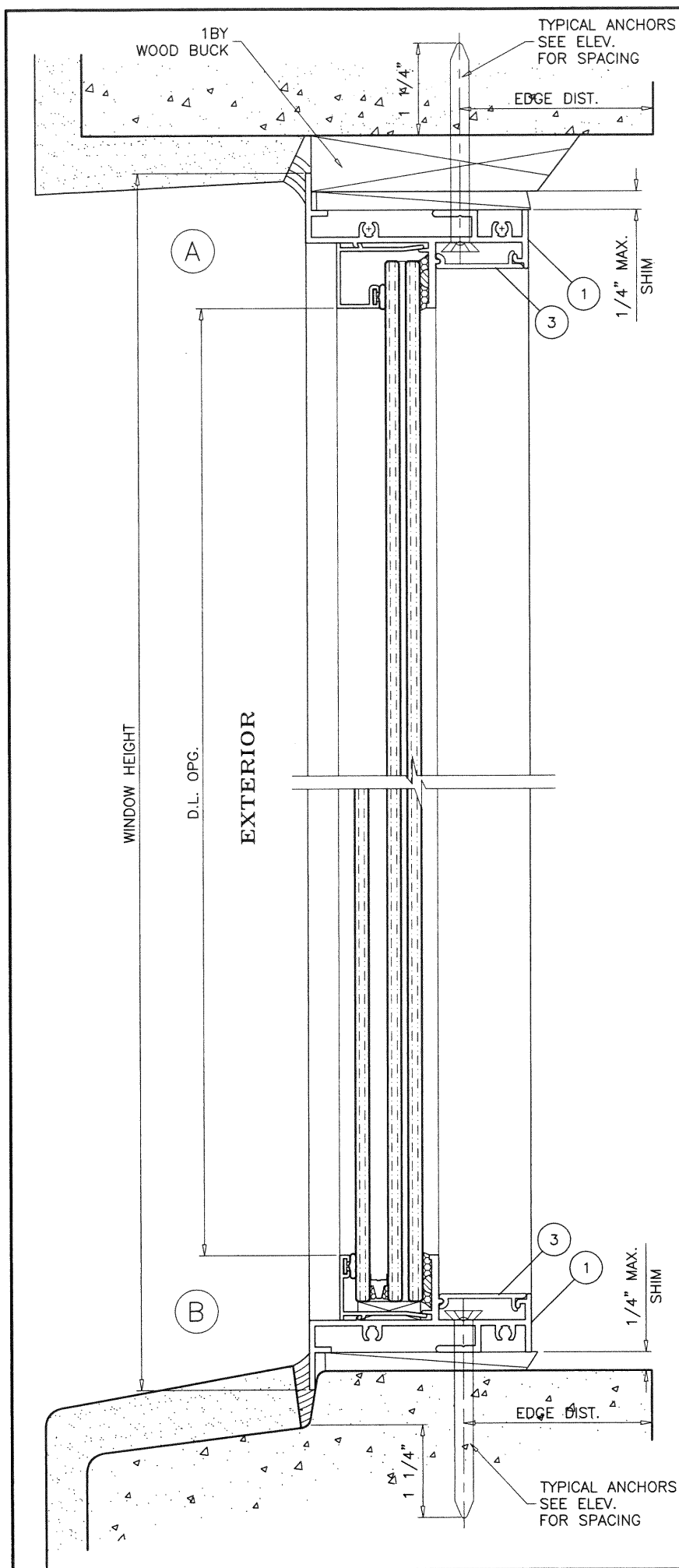
drawing no.

19-19D

sheet 3 of 7

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\19-19D-W



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY V&V WINDOWS 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' ($F_u=164$ KSI, $F_y=148$ 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
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO BLOCKS (JAMBS)

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

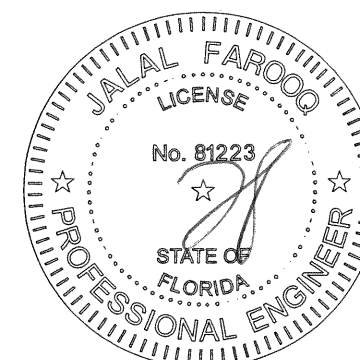
TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 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.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. **20-0929.13**
 Expiration Date: **06/06/2024**
 By: *Manuel Perez*
 Miami-Dade Product Control

Sealed: 11/30/20



SERIES-350 ALUMINUM FIXED WDW. (L.M.I.)

Labrador & Fundora Corp.
 dba-V & V Windows

2355 West 4th Ave.
 Hialeah, FL 33010

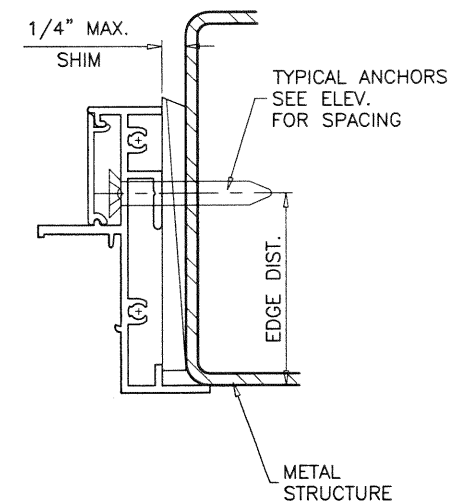
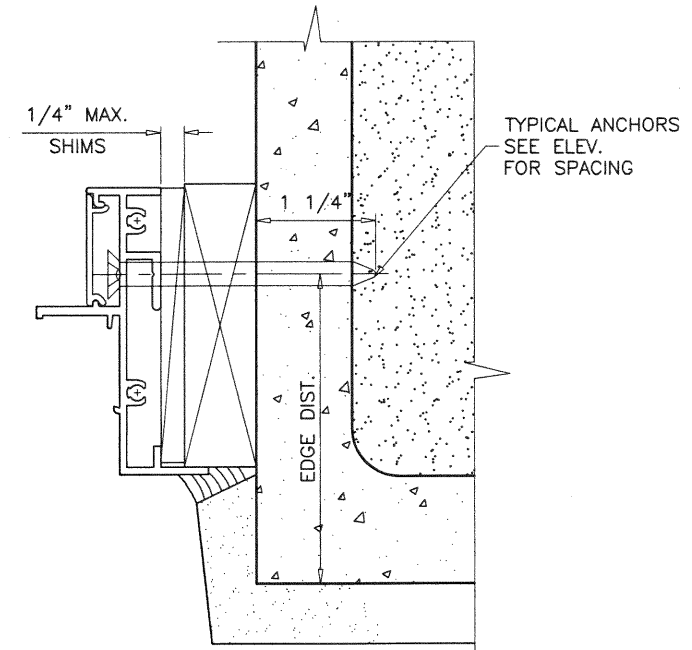
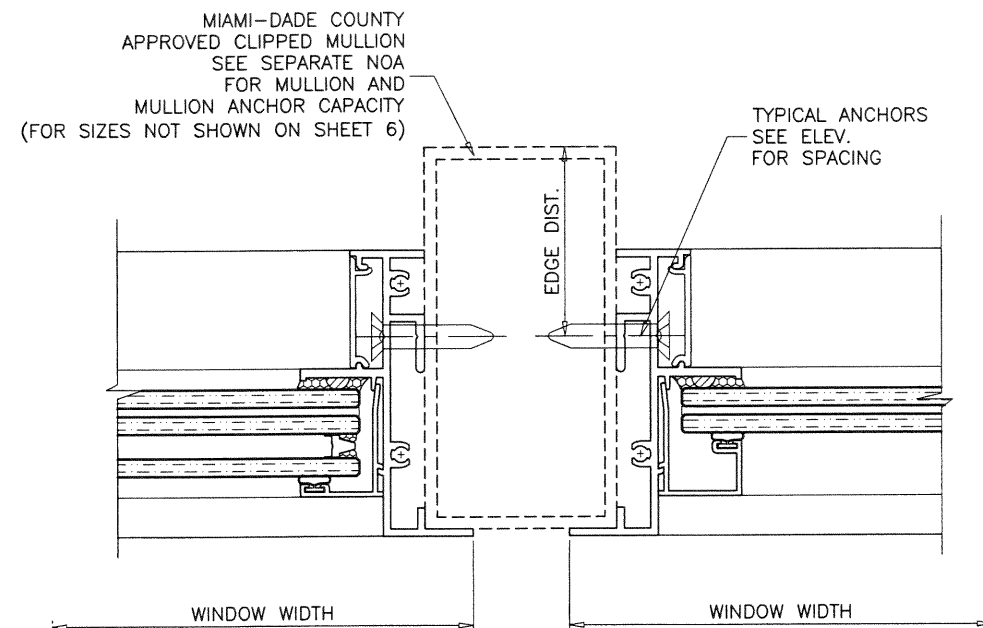
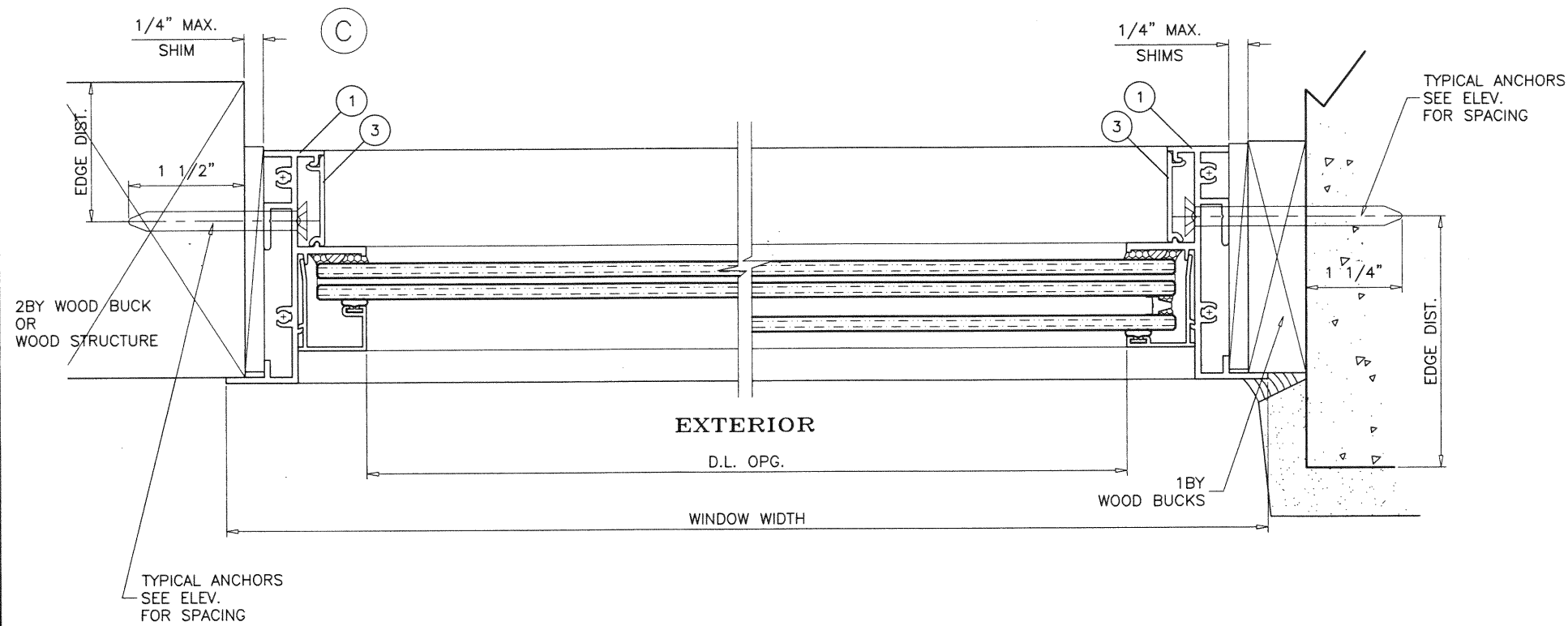
TEL. (305) 888-4151

FAX. (305) 888-1042

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

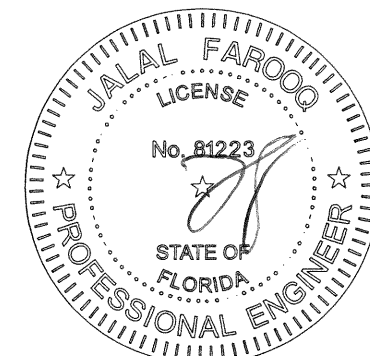
COMP-ANL\19-19D-VW

revisions:		date	by	description
no	date	by	description	
A	05.07.19		REV. PER COMMENTS	
B	07.14.20		UPDATED TO 2020 FBC	
date: 03-18-19		scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no.		19-19D		
sheet 4 of 7				



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COMP-ANL 19-19D-W

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dba-V & V Windows
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B	07.14.20	EDITORIAL CHANGES	

revisions:

date: 03-18-19

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

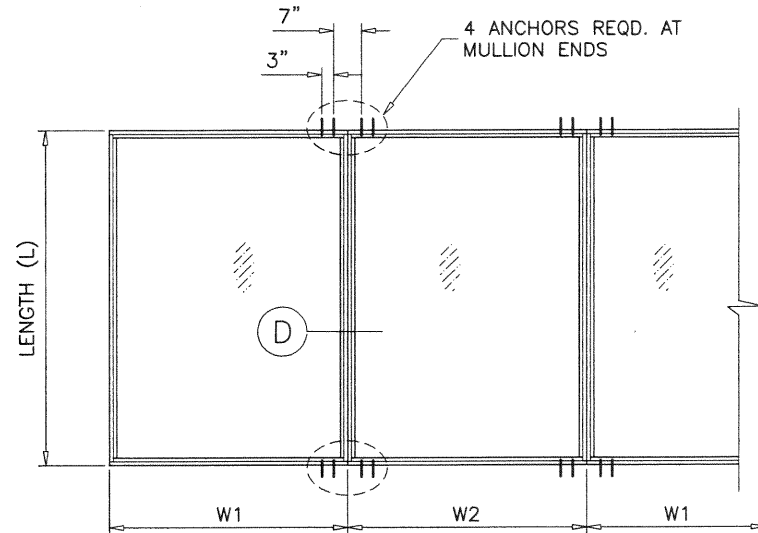
drawing no.
19-19D

sheet 5 of 7

MULLION LOAD CAPACITY - PSF					
WINDOW DIMS.		MULLION TYPE '1'		MULLION TYPE '2'	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	63"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
53-1/8"		80.0	80.0	100.0	100.0
19-1/8"	76"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		68.0	68.0	97.2	97.2
53-1/8"		-	-	91.0	91.0
19-1/8"	79"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		72.6	72.6	100.0	100.0
48"		59.7	59.7	88.6	88.6
53-1/8"		-	-	82.7	82.7
19-1/8"	84"	80.0	80.0	80.0	80.0
26-1/2"		80.0	80.0	80.0	80.0
37"		59.7	59.7	80.0	80.0
30"	60"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0
60"		80.0	80.0	100.0	100.0
30"	66"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0
60"		80.0	80.0	100.0	100.0
30"	72"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		76.5	76.5	100.0	100.0
30"	78"	80.0	80.0	100.0	100.0
36"		77.3	77.3	100.0	100.0
42"		68.5	68.5	100.0	100.0
48"		62.3	62.3	91.3	91.3
30"	84"	71.7	71.7	80.0	80.0
36"		61.1	61.1	80.0	80.0
42"		53.9	53.9	80.0	80.0
48"		48.8	48.8	76.7	76.7

NOTES:

- USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
- FOR FIXED WINDOW CAPACITY SEE SHEET 2.
- LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

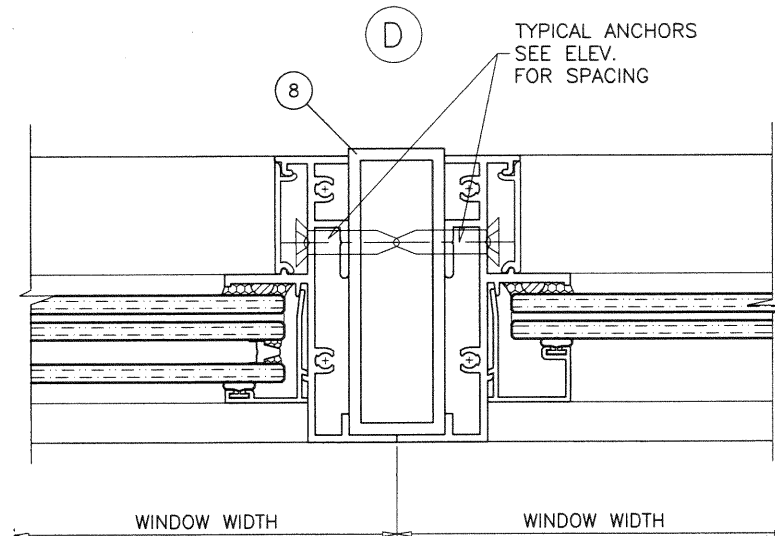


TYPICAL ELEVATIONS

SIDE BY SIDE WINDOWS

SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

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

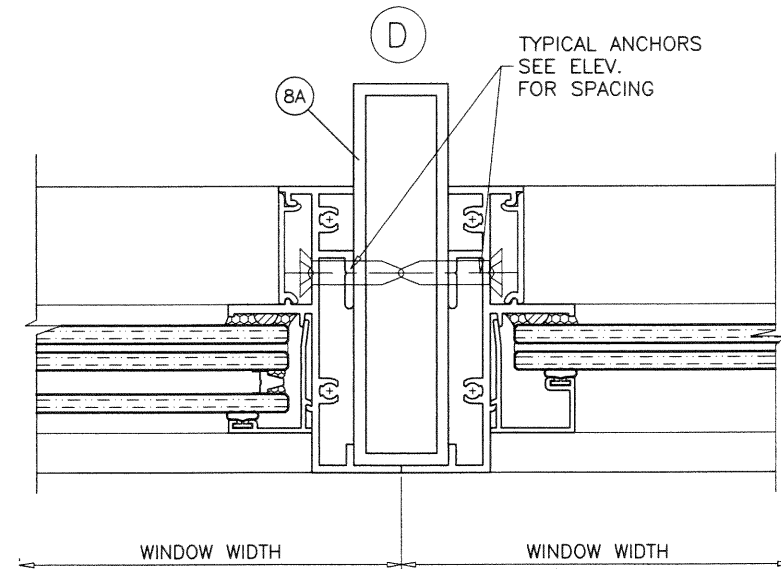


MULLION TYPE '1'

TOTAL PRPERTIES

Ix = 2.068 IN⁴

Sx = 1.312 IN³



MULLION TYPE '2'

TOTAL PRPERTIES

Ix = 3.155 IN⁴

Sx = 1.578 IN³

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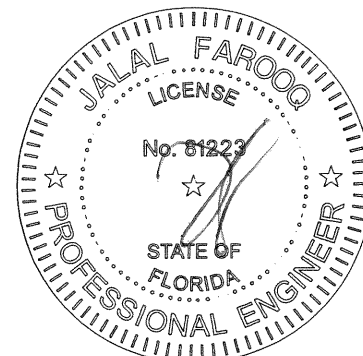
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By: Manuel Perez

Miami-Dade Product Control

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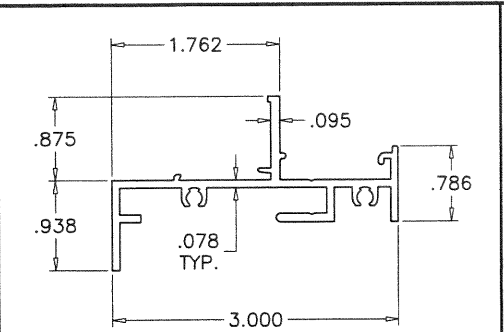
revisions:	no	date	by	description
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	B	07.14.20		EDITORIAL CHANGES

date: 03-18-19	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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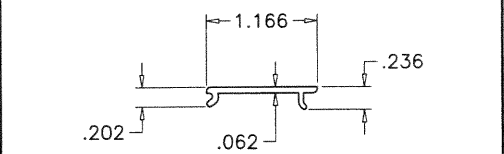
drawing no.

19-19D

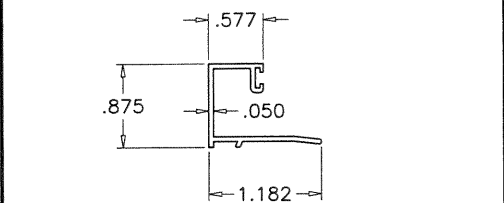
sheet 6 of 7



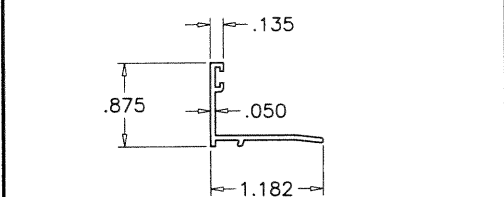
1 FRAME HEAD/SILL/JAMB



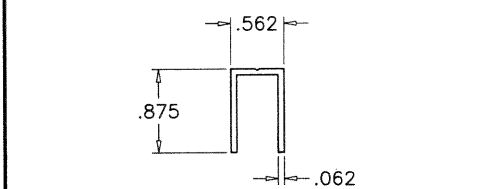
3 FRAME COVER



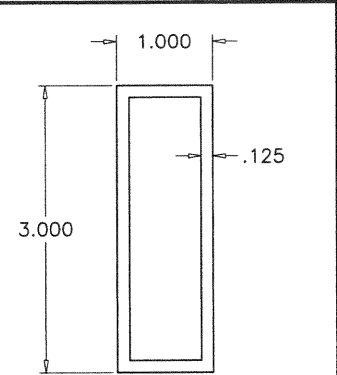
2 GLASS STOP (LAM. GLASS)



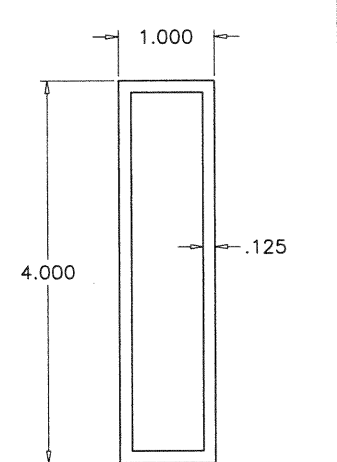
2A GLASS STOP (INSUL. LAM. GLASS)



2B GLASS STOP (CIRCULAR FRAMES)



8 TUBE MULLION



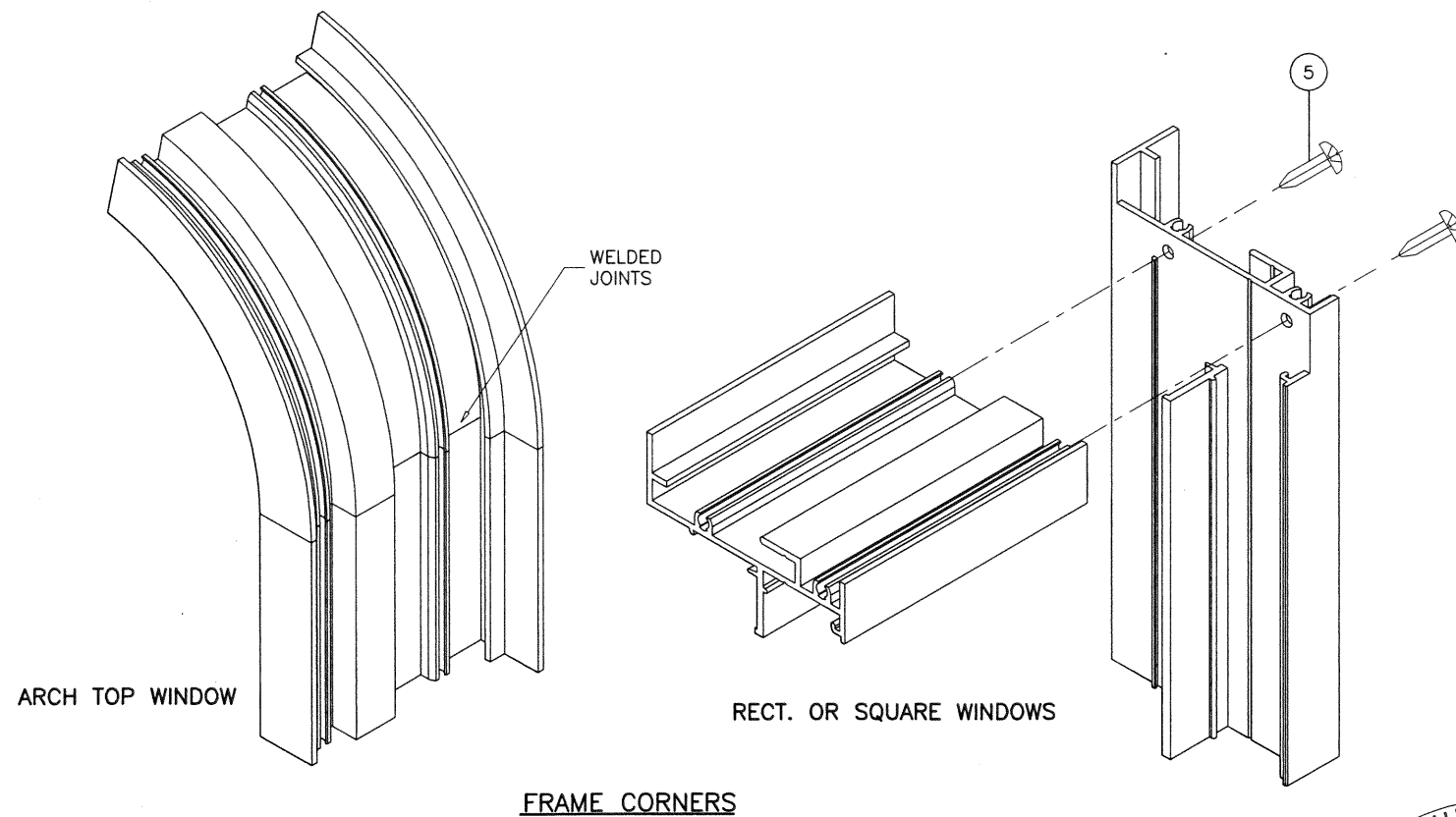
8A TUBE MULLION

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	V351	4/ WDW.	FRAME HEAD/SILL/JAMB	6063-T6	-
2	V352	4/ WDW.	GLAZING BEAD (LAM. GLASS)	6063-T5	-
2A	V353	4/ WDW.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T5	-
2B	V354	4/ WDW.	GLAZING BEAD (CIRCULAR FRAMES)	6063-T5	-
3	V404	AS REQD.	FRAME COVER	6063-T6	-
4	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 80±5 SHORE A
4A	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 80±5 SHORE A
5	#10 X 2"	AS REQD.	FRAME ASSEMBLY SCREWS	CRS	PH SMS
6	9146	AS REQD.	GLAZING GASKET	VINYL	CENTRAL PLASTICS, DUROMETER 65±5 SHORE A
7	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE, DUROMETER 65±5 SHORE A
8	-	AS REQD.	1X3 TUBE MULLION	6063-T6	-
8A	-	AS REQD.	1X4 TUBE MULLION	6063-T6	-
9	#8 X 1-1/4"	AS REQD.	GLAZING BEAD FASTENERS, AT 10" O.C.	CRS	FH SMS

SEALANT:

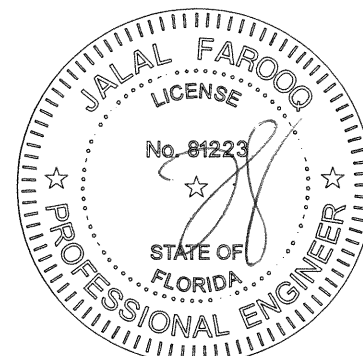
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH 'PECORA 1215' SEAM SEALER.

PARIMETER CAULKING 'DYMONIC FC POLYURETHANE' ON EXTERIOR ONLY.



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sheet 7 of 7				