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)

Gopi Glass Sales & Services Corp.
7450 NW 41st Street
Miami, FL 33166

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 "510" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W02-50**, titled "Series-510 Aluminum Fixed Window (L.M.I.)", sheets 1 through 4 of 4, dated 05/20/02, with revision **G** dated 12/28/20, 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. 18-0205.02** 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.**

MIAMI-DADE COUNTY APPROVED

4/8/21

NOA No. 21-0122.07
Expiration Date: February 20, 2023
Approval Date: April 15, 2021

Gopi Glass Sales & Services Corp.

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. 02-0826.03)

2. Drawing No **W02-50**, sheets 1 through 4 of 4, titled "Series-510 Aluminum Fixed Window", dated 05/20/02, with revision **F** dated 01/22/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0205.025)

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
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-9930**, dated 01/18/18, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 18-0205.02)

2. Test reports on: 1) Air Infiltration Test, per TAS 202-94
2) Uniform Static Air Pressure Test, Loading per TAS 202-94
3) Water Resistance Test, per TAS 202-94
along with marked-up drawings and installation diagram of a series 510 aluminum fixed window, prepared by Hurricane Engineering and Testing, Inc., Test Report No. **HETI-02-1211,** dated 03/04/02 signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA No. 02-0826.03)

3. Test reports on: 1) Large Missile Impact Test, SFBC PA 201-94
2) Cyclic Loading Test, per SFBC PA 203-94
along with marked-up drawings and installation diagram of a series 510 aluminum fixed window, prepared by Hurricane Engineering and Testing, Inc., Test Report No. **HETI-02-1145A** dated 03/05/02 signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA No. 02-0826.03)

4. Test reports on: 1) Large Missile Impact Test, SFBC PA 201-94
2) Cyclic Loading Test, per SFBC PA 203-94
along with marked-up drawings and installation diagram of a series 510 aluminum fixed window, prepared by Hurricane Engineering and Testing, Inc., Test Report No. **HETI-02-1145B** dated 04/30/02 signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA No. 02-0826.03)

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 21-0122.07
Expiration Date: February 20, 2023
Approval Date: April 15, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

B. TESTS (CONTINUED)

5. Test reports on: 1) Large Missile Impact Test, SFBC PA 201-94
2) Cyclic Loading Test, per SFBC PA 203-94
along with marked-up drawings and installation diagram of a series 510 aluminum fixed window, prepared by Hurricane Engineering and Testing, Inc., Test Report No. **HETI-02-1145C** dated 03/05/02 signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA No. 02-0826.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014),** dated June 12, 2014 and updated on January 18, 2018 to comply with **FBC 6th Edition (2017),** prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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. **12-1231.10** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 03/28/13, expiring on 05/21/16.

2. Notice of Acceptance No. **13-1126. 20** issued to **Allnex USA, Inc.** for their "**Uvekol S Laminated Glass Interlayer**", dated 02/20/14, expiring on 02/08/19.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017),** and of no financial interest, dated January 12, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0205.02)

2. Laboratory compliance letters for Test Reports No. **HETI-02-1211**, **HETI-02-1145A**, **HETI-02-1145B** and **HETI-02-1145C**, issued by Hurricane Engineering and Testing, Inc., dated 03/05/02 and 04/30/02, all signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA No. 02-0826.03)

G. OTHERS

1. Notice of Acceptance No. **14-0728.07**, issued to Gopi Glass Sales & Services Corp. for their Series "510" Aluminum Fixed Window – E.M.I., approved on 10/16/14 and expiring on 02/20/18.

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 21-0122.07
Expiration Date: February 20, 2023
Approval Date: April 15, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No **W02-50**, titled "Series-510 Aluminum Fixed Window", sheets 1 through 4 of 4, dated 05/20/02, with revision **G** dated 12/28/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 06/12/14, updated on 01/18/18 to comply with **FBC 6th Edition (2017)** and further updated on 11/27/20, 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. **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.

2. Notice of Acceptance No. **19-0221.01** issued to **Allnex USA, Inc.** for their "**Uvekol® S Laminated Glass Interlayer**", dated 03/28/19, expiring on 02/08/24.

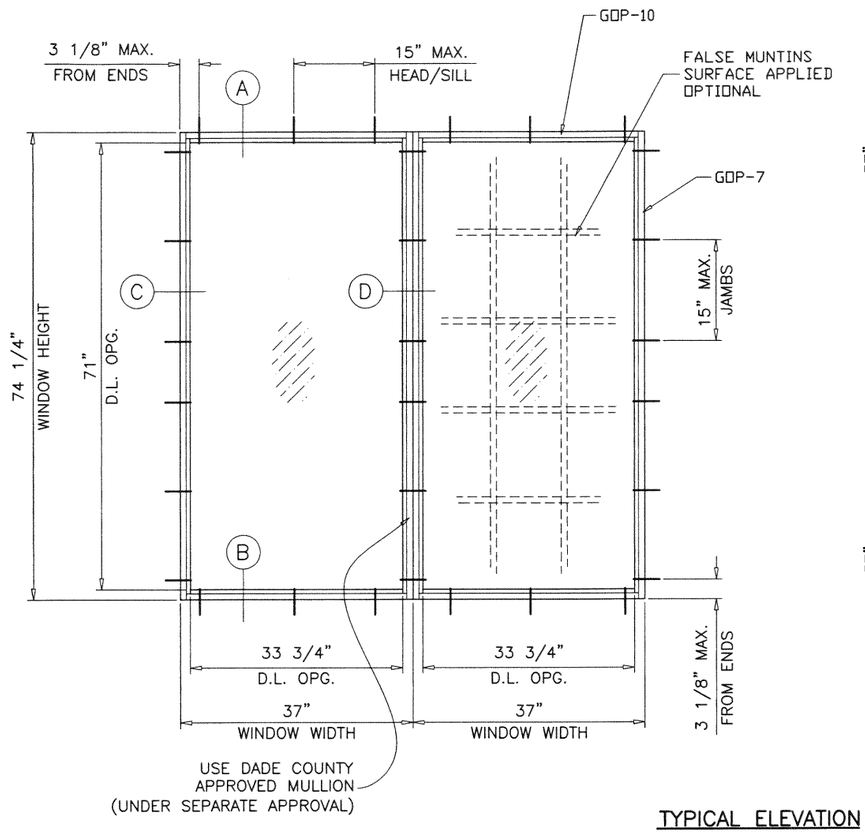
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017),** with **FBC 7th Edition (2020)** and of no financial interest, dated November 27, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

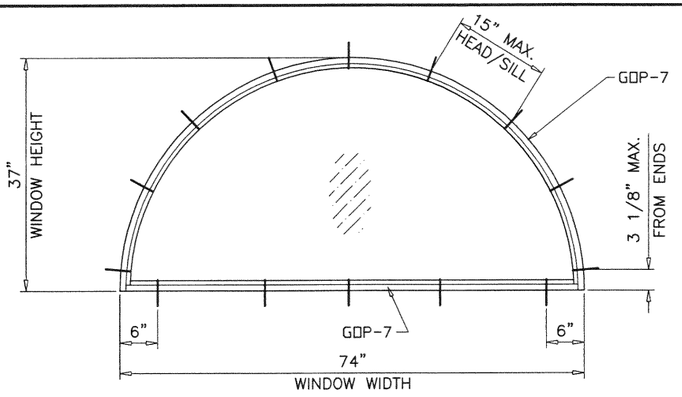
G. OTHERS

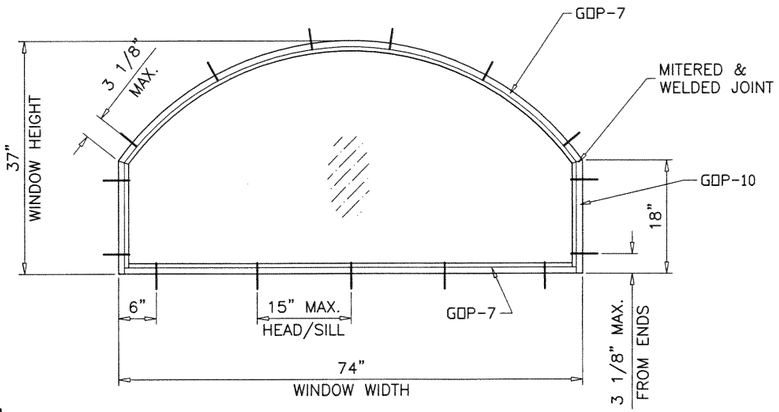
1. Notice of Acceptance No. **18-0205.02**, issued to Gopi Glass Sales & Services Corp. for their Series "510" Aluminum Fixed Window – L.M.I., approved on 03/29/18 and expiring on 02/20/23.

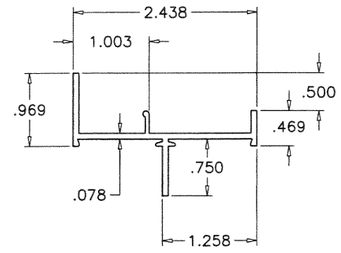
Manuel Perez, P.E.
Product Control Examiner
NOA No. 21-0122.07
Expiration Date: February 20, 2023
Approval Date: April 15, 2021



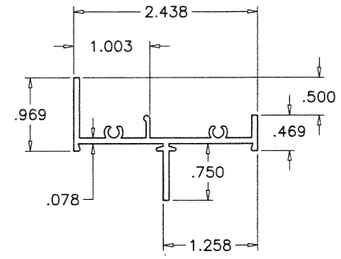
TYPICAL ELEVATION
TESTED UNITS



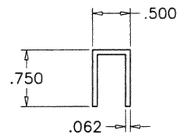




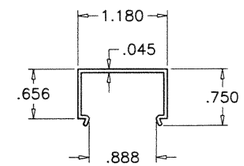
FRAME HEAD/SILL
GOP-10



FRAME JAMB
GOP-7



GLAZING STOP
GOP-9



COVER CHANNEL
GOP-8

SERIES-510 ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHART SHOWN ON SHEET 2.

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

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 21-0122.07
Expiration Date: 02/20/2023
By: Manuel Perez
Miami-Dade Product Control

JAN 11 2021

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173 FAX. (305) 262-6978
TEL. (305) 264-8100
COMP-ANL\W02-50GGC

SERIES-510 ALUMINUM FIXED WINDOW (L.M.I.)

Gopi Glass Sales & Services Corp.
7450 N.W. 41 STREET
MIAMI, FL. 33166
TEL. (305) 592-2089 FAX. (305) 477-0992

revisions:

no	date	by	description
C	10.16.09		UPDATED FOR 2007 FBC
D	02.21.12		UPDATED TO 2010 FBC
E	06.24.14		UPDATED TO 2014 FBC
F	01.22.18		UPDATED TO 2017 FBC
G	12.28.20		UPDATED TO 2020 FBC

date: 05-20-02
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

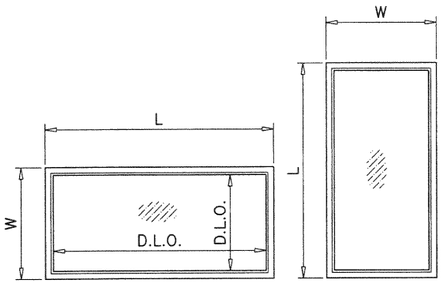
drawing no. W02-50

sheet 1 of 4

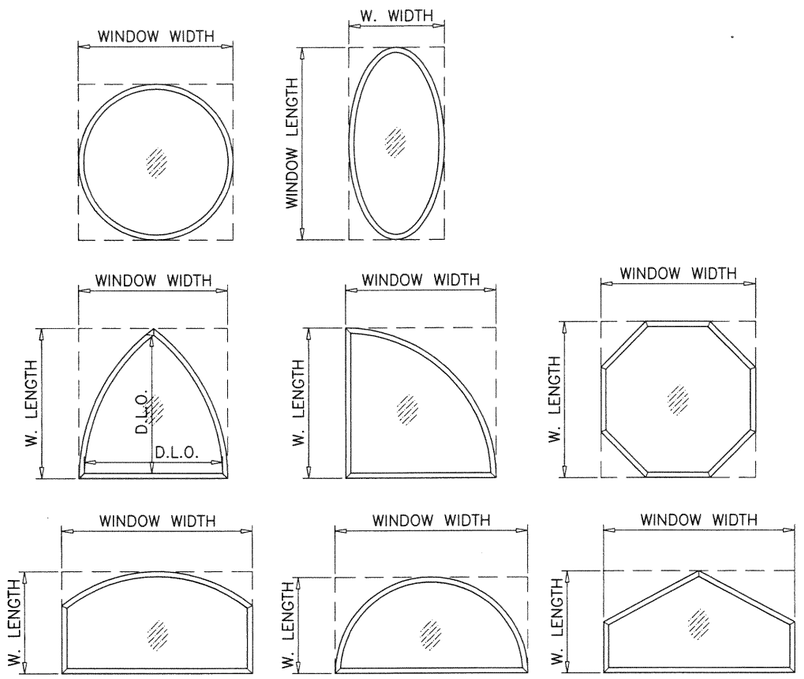
DESIGN LOAD CAPACITY – PSF

WINDOW DIMS.		GLASS TYPES 'A' & 'C'	
WIDTH	LENGTH	EXT. (+)	INT. (–)
18" (3)	36" (3)	71.0	71.0
24" (3)		71.0	71.0
30" (3)		71.0	71.0
36" (3)		71.0	71.0
42" (4)		71.0	71.0
18" (3)	48" (4)	71.0	71.0
24" (3)		71.0	71.0
30" (3)		71.0	71.0
36" (3)		71.0	71.0
42" (4)		63.0	63.0
18" (3)	60" (5)	71.0	71.0
24" (3)		71.0	71.0
30" (3)		71.0	71.0
36" (3)		71.0	71.0
42" (4)		63.0	63.0
18" (3)	72" (6)	71.0	71.0
24" (3)		71.0	71.0
30" (3)		71.0	71.0
36" (3)		71.0	71.0
18" (3)	84" (6)	71.0	71.0
24" (3)		71.0	71.0
30" (3)		71.0	71.0
18" (3)	96" (7)	71.0	71.0
24" (3)		71.0	71.0
19–1/8" (3)	26" (3)	71.0	71.0
26–1/2" (3)		71.0	71.0
37" (3)		71.0	71.0
48" (4)		71.0	71.0
53–1/8" (5)		71.0	71.0
19–1/8" (3)	38–3/8" (4)	71.0	71.0
26–1/2" (3)		71.0	71.0
37" (3)		71.0	71.0
48" (4)		68.9	68.9
53–1/8" (5)		68.9	68.9
19–1/8" (3)	50–5/8" (4)	71.0	71.0
26–1/2" (3)		71.0	71.0
37" (3)		71.0	71.0
48" (4)		55.1	55.1
53–1/8" (5)		52.2	52.2
19–1/8" (3)	57" (5)	71.0	71.0
26–1/2" (3)		71.0	71.0
37" (3)		71.0	71.0
48" (4)		55.1	55.1
19–1/8" (3)	63" (5)	71.0	71.0
26–1/2" (3)		71.0	71.0
37" (3)		71.0	71.0
19–1/8" (3)	74–1/4" (6)	71.0	71.0
26–1/2" (3)		71.0	71.0
37" (3)		71.0	71.0

NUMBERS IN PARENTHESIS INDICATE NUMBER OF ANCHORS REQD. PER SIDE.

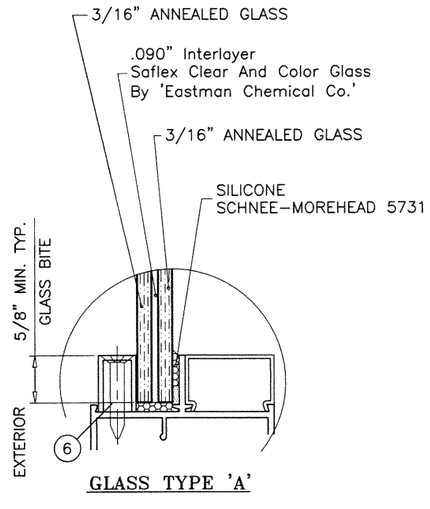


NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

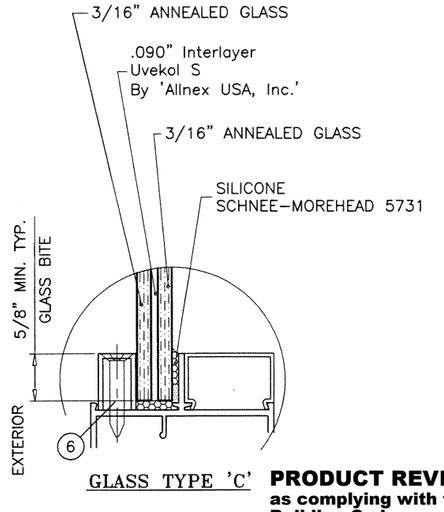


ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

D.L.O. = WIDTH OR HEIGHT – 3.25"



GLASS TYPE 'A'



GLASS TYPE 'C'

GLAZING OPTIONS

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 21-0122.07
Expiration Date: 02/20/2023
JAN 1 1 2021
By: Manuel Perez
Miami–Dade Product Control

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\W02–50GGC

SERIES–510 ALUMINUM FIXED WINDOW (L.M.I.)

Gopi Glass Sales & Services Corp.
7450 N.W. 41 STREET
MIAMI, FL. 33166
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no	date	by	description
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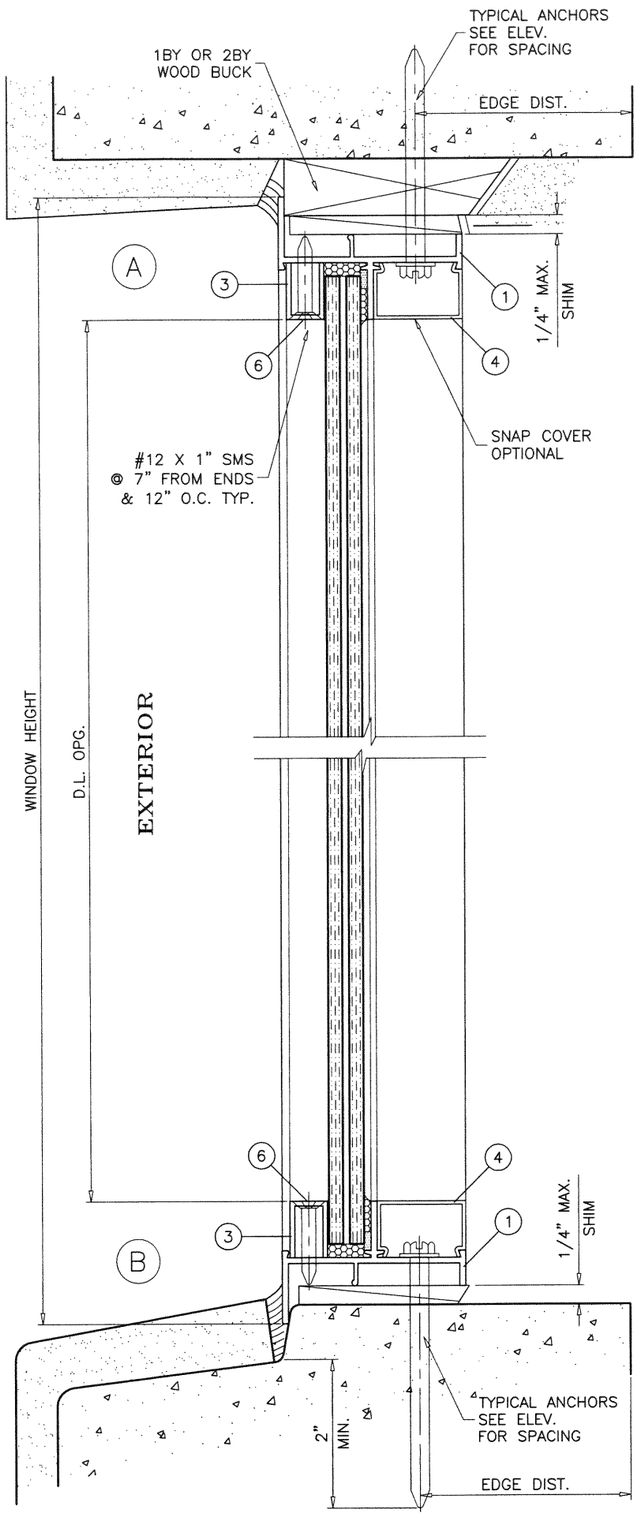
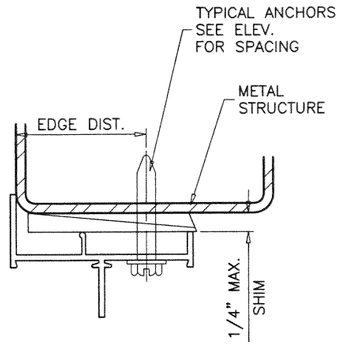
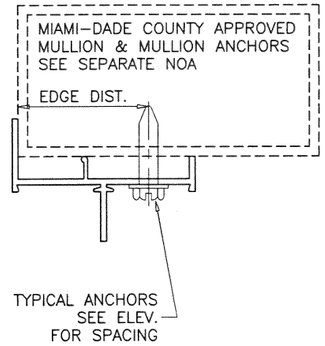
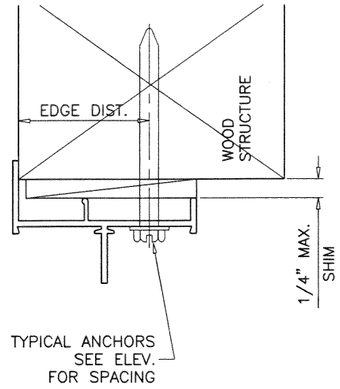
chk. by:

drawing no. W02–50









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

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE SEALANT.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY OR 2BY 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
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
2" MIN. EMBED INTO HOLLOW/FILLED BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

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. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

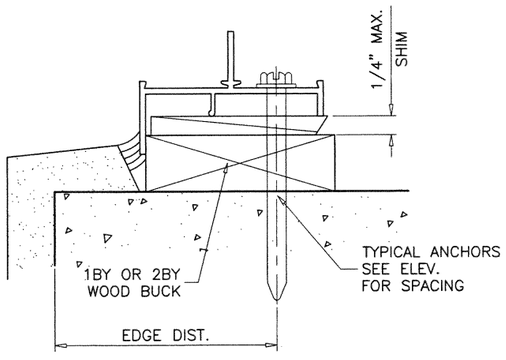
#12 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIMS)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (NO SHIMS)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL 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. 21-0122.07
Expiration Date: 02/20/2023 JAN 11 2021
By: Manuel Perez
Miami-Dade Product Control

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\W02-50GGC

SERIES-510 ALUMINUM FIXED WINDOW (L.M.I.)

Gopi Glass Sales & Services Corp.
7450 N.W. 41 STREET
MIAMI, FL. 33166
TEL. (305) 592-2089 FAX. (305) 477-0992

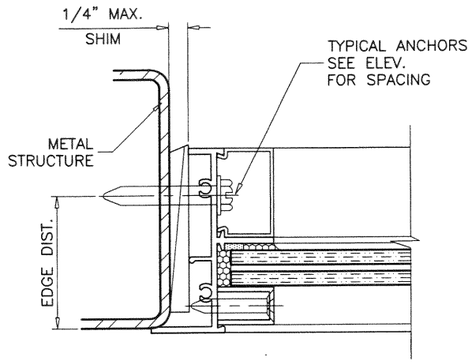
revisions:			
no	date	by	description
C	10.16.09		UPDATED FOR 2007 FBC
D	02.21.12		NO CHANGE THIS SHEET
E	06.24.14		UPDATED TO 2014 FBC
F	01.22.18		UPDATED TO 2017 FBC
G	12.28.20		UPDATED TO 2020 FBC

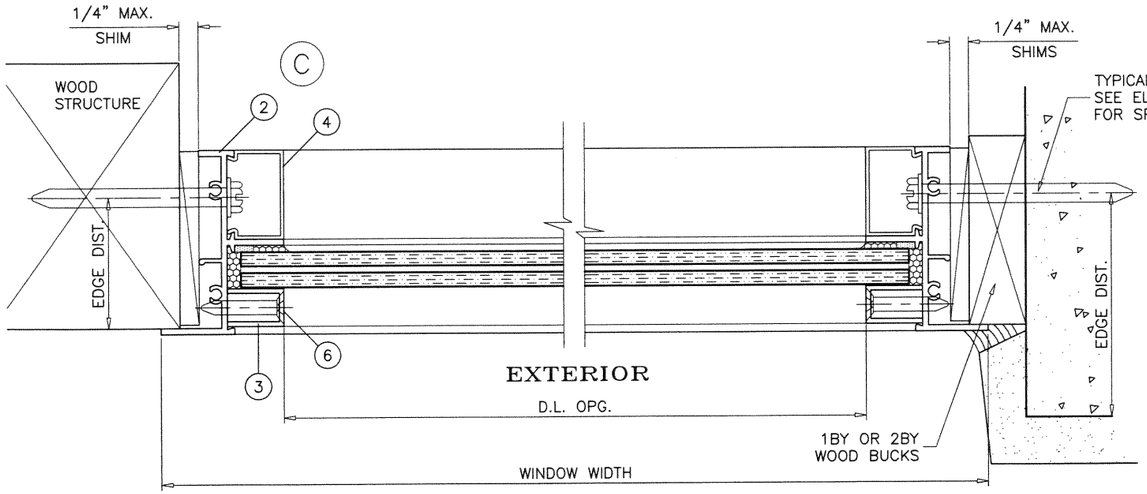
date: 05-20-02
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

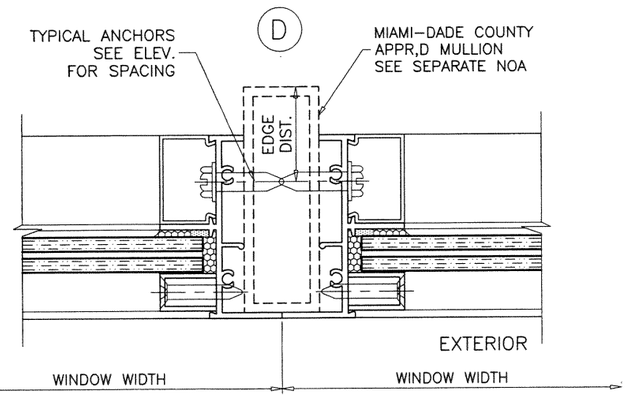
drawing no. W02-50

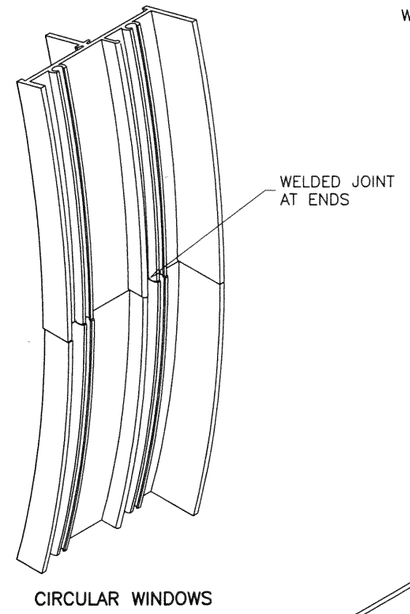
sheet 3 of 4

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	GOP-10	2	FRAME HEAD/SILL	6063-T5	-
2	GOP-7	2	FRAME JAMB	6063-T5	-
3	GOP-9	4	GLAZING BEAD	6063-T5	-
4	GOP-8	AS REQD.	COVER CHANNEL	6063-T5	OPTIONAL
5	#8 X 3/4"	2/ CORNER	ASSEMBLY SCREWS	-	P.H. PHILLIPS
6	#12 X 1"	AS REQD.	GLAZING BEAD SCREWS @ 7" FROM ENDS & 12" O.C.	-	F.H. SMS

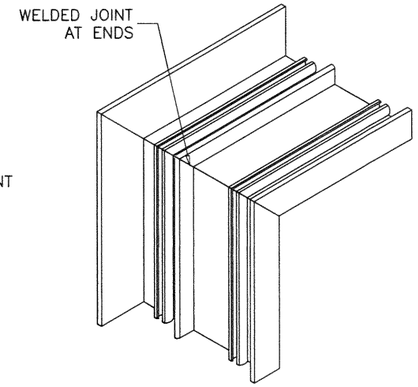




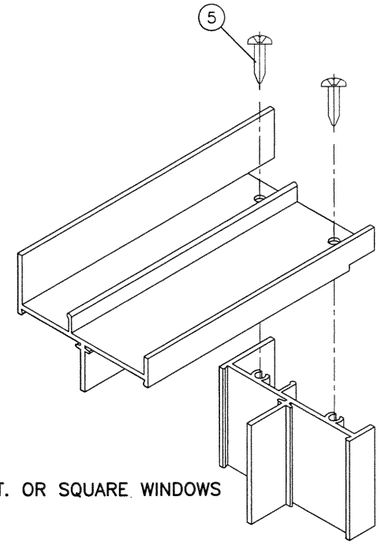




CIRCULAR WINDOWS



OPTIONAL CORNER



RECT. OR SQUARE WINDOWS

TYP. CORNER DETAILS

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