



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/economy

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

Tecnoglass, LLC
3550 NW 49 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 "500Y" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W03-96**, titled "Series 500Y Alum Single Hung Window (L.M.I.)", sheets 1 through 8 of 8, dated 10/24/03, with revision **L** dated 08/20/26, 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, **Barranquilla, Colombia S.A.**, 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 and renews NOA No. 25-0613.06** and consists of this page 1, evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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




9/29/26

NOA No. 26-0910.06
Expiration Date: June 23, 2031
Approval Date: October 08, 2026
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

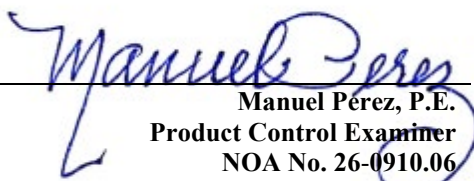
1. Manufacturer's die drawings and sections.
(Submitted under NOA's No. 07-0706.02 and 05-0519.02)
2. Drawing No. **W03-96**, titled "Series 500Y Alum Single Hung Window (L.M.I.)", sheets 1 through 8 of 8, dated 10/24/03, with revision **K** dated 09/11/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 23-0928.10)

B. TESTS

1. Test reports on: 1) Drop Load Test, per CPSC 16 CFR 1201, ANSI Z97.1 (400 Ft.Lb.) along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-5321**, dated 07/05/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 07-0706.02)
2. 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 Class A
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4521**, dated 02/18/05, signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-0519.02)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4353**, dated 01/18/05, signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-0519.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, dated 04/07/15 and updated on 02/16/18, to comply with FBC 6th Edition (2017), and updated on 11/20/20 to comply with FBC 7th Edition (2020), prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1202.08)
2. Glazing complies with **ASTM E 1300-09**


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0910.06
Expiration Date: June 23, 2031
Approval Date: October 08, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

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 June 11, 2025, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 25-0613.06)
2. Letter from consultant requesting a 1-year extension to allow time to perform verification test, dated June 11, 2025, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 25-0613.06)
3. Testing agreement letter, dated June 16, 2025, between Blackwater Technical Services, Inc. and E.S. Windows, LLC, issued by Blackwater and signed by Estefany Camargo, Business Operations Manager.
(Submitted under NOA No. 25-0613.06)
4. Asset purchase agreement dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC.
(Submitted under NOA No. 14-0923.05)
5. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. **12-0330.07**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
(Submitted under NOA No. 14-0923.05)
6. Department of State Certification of **TECNOGLASS, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/03/14 and signed by Ken Detzner, Secretary of State.
(Submitted under NOA No. 14-0923.05)
7. Laboratory compliance letter for Test Report No. **FTL-5321**, dated 07/05/07, issued by Fenestration Testing Laboratories, Inc., signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 07-0706.02)
8. Laboratory compliance letters for Test Reports No. **FTL-4521**, dated 01/18/05 and **FTL-4353**, dated 02/18/05, both issued by Fenestration Testing Laboratories, Inc., signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-0519.02)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0910.06
Expiration Date: June 23, 2031
Approval Date: October 08, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

G. OTHERS

1. Notice of Acceptance No. **23-0928.10**, issued to Tecnoglass, LLC, for their Series "500Y" Aluminum Single Hung Window – L.M.I., approved on 10/26/23 and expiring on 06/23/25.
2. This is a one-year approval, subjected to successful verification test, the final approval will be issued for a total of 5 years.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W03-96**, titled "Series 500Y Alum Single Hung Window (L.M.I.)", sheets 1 through 8 of 8, dated 10/24/03, with revision **L** dated 08/20/26, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Blackwater Technical Services, Inc., Test Report No. **BT-ESW-25-021**, dated 05/21/26, with Revision 1 dated 07/17/26, signed and sealed by Michael D. Caldwell, P.E.

C. CALCULATIONS

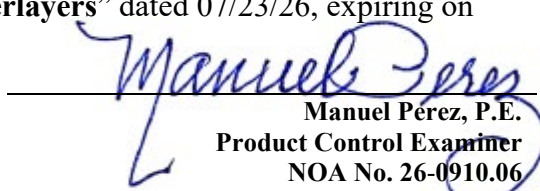
1. Anchor verification calculations and structural analysis, to comply with FBC 8th Edition (2023) and FBC 9th Edition (2026), dated 07/24/26, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E 1300-16**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **26-0625.02** issued to **Kuraray America, Inc.** for their "SentryGlas® (Clear and White) Glass Interlayers" dated 07/23/26, expiring on 07/04/28.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0910.06
Expiration Date: June 23, 2031
Approval Date: October 08, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

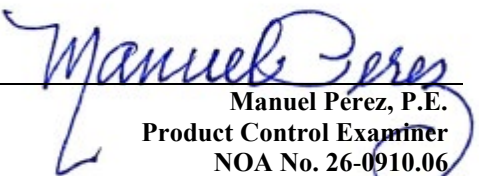
2. NEW EVIDENCE SUBMITTED (CONTINUED)

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, with **FBC 9th Edition (2026)**, inclusive special limitation use of anchors for saltwater environment to comply with chapter 17; and of no financial interest, dated August 18, 2026, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Proposal No. **25-0260** issued by the Product Control Section, dated March 20, 2026, signed by Manuel Perez, P.E.

G. OTHERS

1. Notice of Acceptance No. **25-0613.06**, issued to Tecnoglass, LLC, for their Series “500Y” Aluminum Single Hung Window – L.M.I., approved on 07/03/25 and expiring on 06/23/26.



Manuel Perez, P.E.

Product Control Examiner

NOA No. 26-0910.06

Expiration Date: June 23, 2031

Approval Date: October 08, 2026

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

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

SERIES 500Y ALUM SINGLE HUNG WINDOW (L.M.I.)

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF SINGLE HUNG WINDOW.

FOR SINGLE HUNG OVER FIXED WINDOW CHECK WINDOWALL CAPACITY FROM CHART ON SHEET 5 AND S.H. CAPACITY FROM CHART ON SHEET 2 LOWER VALUES FROM TWO CHARTS WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

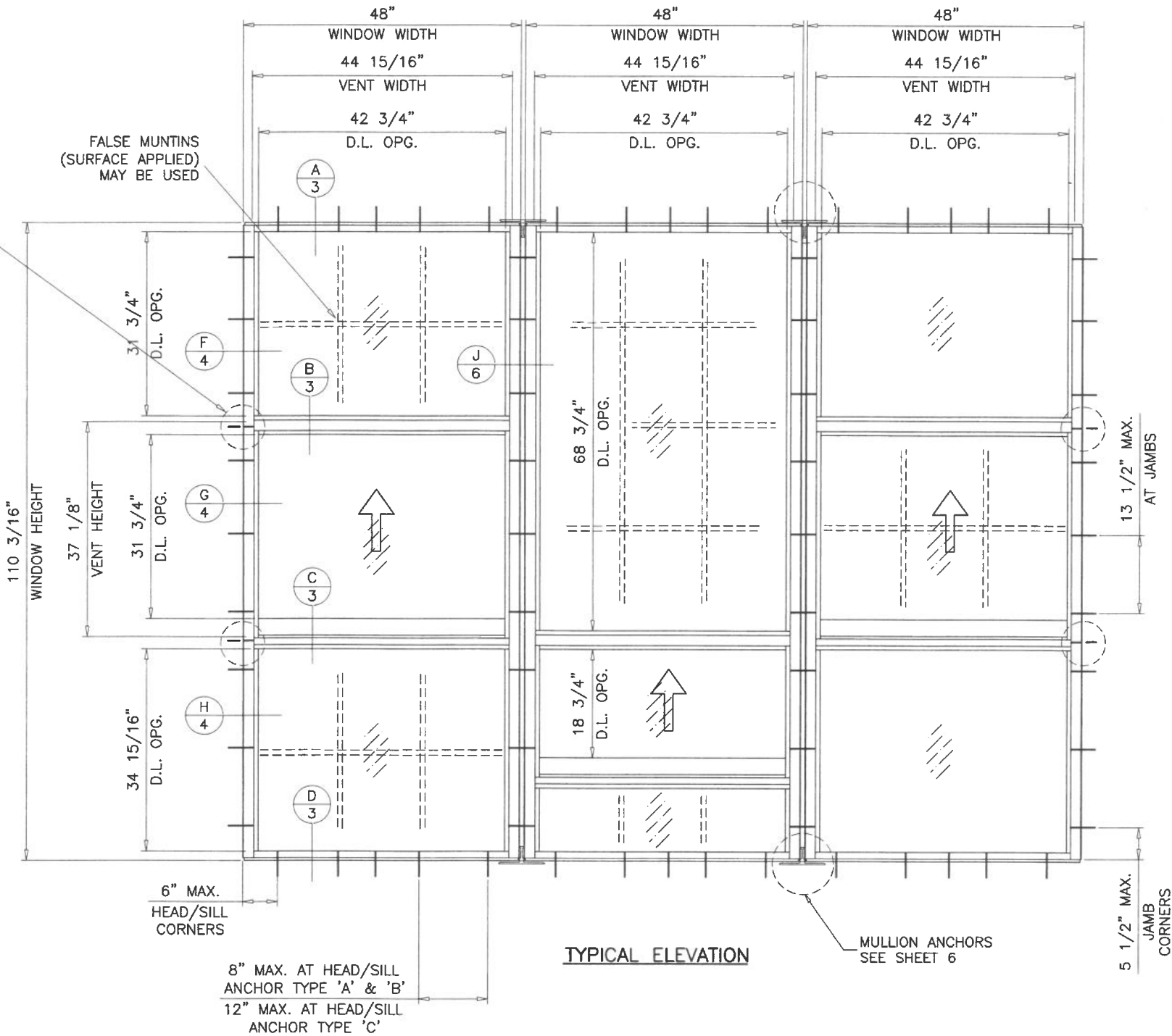
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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)'.

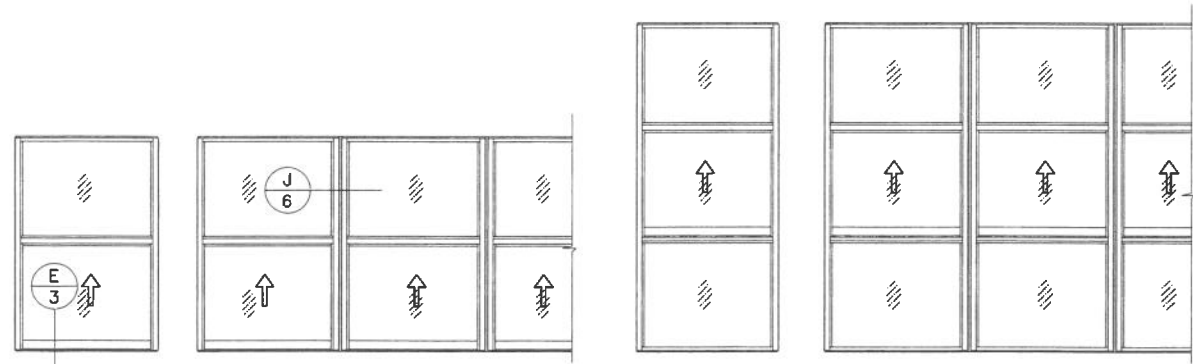
ADDL ANCHOR AT MTG. STLE ENDS REQD. FOR SHIMS EXCEEDING 1/4"

FALSE MUNTINS (SURFACE APPLIED) MAY BE USED



TYPICAL ELEVATION

MULLION ANCHORS SEE SHEET 6

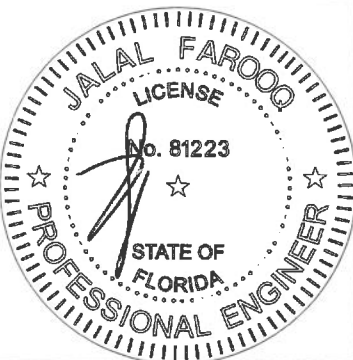


APPROVED CONFIGURATIONS

APPROVAL APPLIES TO INDIVIDUAL UNITS OF SINGLE HUNG WINDOWS OR SINGLE HUNG OVER FIXED WINDOWS. ALSO SIDE BY SIDE COMBINATIONS OF S.H. TO S.H. OR S.H./FIX. TO S.H./FIX. IN MODULES OF TWO OR MORE UNITS USING MULLIONS.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1. WITH MINIMUM SILL HEIGHT OF 36 IN. ABOVE WALKING SURFACE.

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **26-0910.06**
Expiration Date: **06/23/2031**
By: *Manuel Perez*
Miami-Dade Product Control
SEP 08 2026



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 500Y ALUM SINGLE HUNG WINDOW (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
H	04.08.15		UPDATED TO 2014 FBC
I	02.22.18		UPDATED TO 2017 FBC
J	11.20.20		UPDATED TO 2020 FBC
K	09.11.23		UPDATED TO 2023 FBC
L	08.20.26		UPDATED TO 2026 FBC

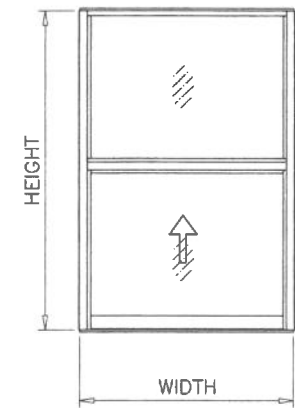
revisions:
date: 10-24-03
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W03-96
sheet 1 of 8

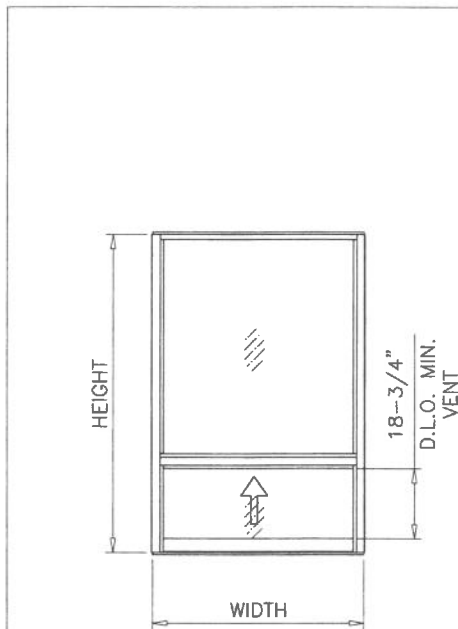
COMP-ANL-W03-96RC

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		3/8" MAX. SHIMS	
		GLASS TYPE 'A' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
36"	36"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"		89.7	116.6
66"		67.0	87.1
72"		51.3	66.7
36"	42"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"		77.9	101.3
66"		58.0	75.4
72"		44.4	57.7
36"	48"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		96.5	125.5
60"		69.2	90.0
66"		51.4	66.9
72"		39.3	51.1
36"	54"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		87.7	114.0
60"		62.7	81.5
66"		46.4	60.3
72"		35.3	45.9
36"	60"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		81.0	105.3
60"		57.6	74.8
66"		42.4	55.2
36"	66"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		75.8	98.5
60"		53.5	69.6
36"	72"	100.0	130.0
42"		100.0	130.0
48"		100.0	129.4
54"		71.7	93.2
36"	78"	100.0	130.0
42"		100.0	130.0
48"		100.0	126.7
54"		68.5	89.1

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		3/8" MAX. SHIMS	
		GLASS TYPE 'A' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
36"	84"	100.0	130.0
42"		100.0	130.0
48"		100.0	125.1
36"	89-1/4"	100.0	130.0
42"		100.0	130.0
48"		100.0	124.7
36"	90"	100.0	130.0
42"		100.0	130.0
36"	96"	100.0	130.0
42"		100.0	130.0

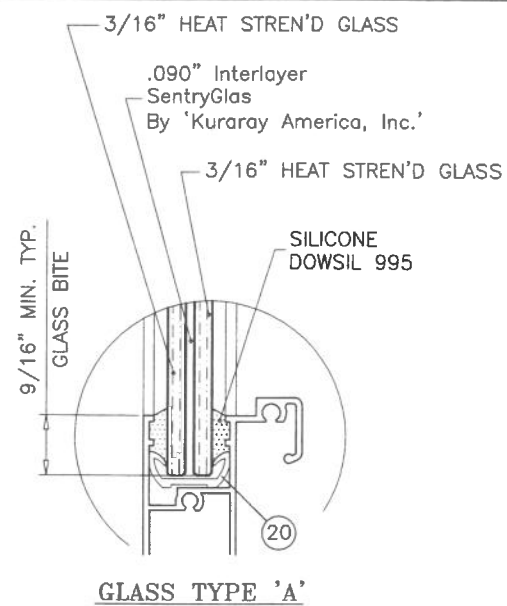


EQUAL LITES
SINGLE HUNG WINDOWS

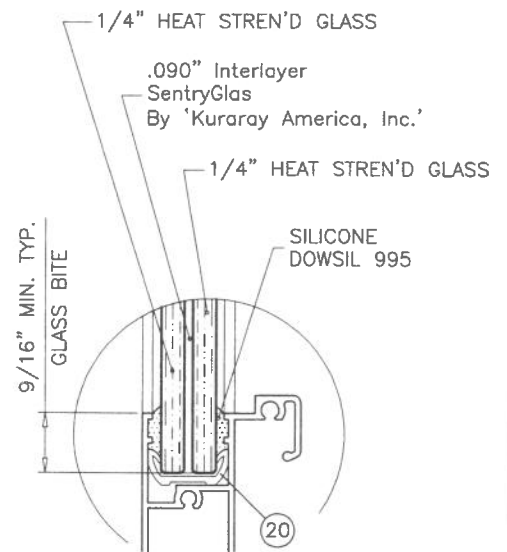


UNEQUAL LITES (ORIEL)
SINGLE HUNG WINDOWS

UNEQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF											
WINDOW DIMS.		3/8" MAX. SHIMS				1/4" MAX. SHIMS					
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'A'		GLASS TYPE 'B'			
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	48"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
48"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
54"		81.9	110.5	81.9	110.5	-	-	-	-	-	-
60"		58.7	79.3	58.7	79.3	-	-	-	-	-	-
66"		43.6	58.9	43.6	58.9	-	-	-	-	-	-
72"		33.3	45.0	33.3	45.0	-	-	-	-	-	-
36"	54"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
48"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
54"		74.9	101.1	74.9	101.1	-	-	-	-	-	-
60"		53.4	72.1	53.4	72.1	-	-	-	-	-	-
66"		39.5	53.3	39.5	53.3	-	-	-	-	-	-
72"		30.1	40.6	30.1	40.6	-	-	-	-	-	-
36"	60"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
48"		100.0	130.0	103.1	139.2	-	-	-	-	-	-
54"		70.1	94.7	70.1	94.7	-	-	-	-	-	-
60"		49.6	67.0	49.6	67.0	-	-	-	-	-	-
66"		36.5	49.3	36.5	49.3	-	-	-	-	-	-
72"		27.7	37.3	27.7	37.3	-	-	-	-	-	-
36"	66"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
48"		100.0	130.0	100.6	135.9	-	-	-	-	-	-
54"		67.1	90.5	67.1	90.5	-	-	-	-	-	-
60"		47.0	63.5	47.0	63.5	-	-	-	-	-	-
66"		34.3	46.3	34.3	46.3	-	-	-	-	-	-
72"		25.9	34.9	25.9	34.9	-	-	-	-	-	-
36"	72"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
48"		100.0	130.0	100.0	135.0	-	-	-	-	-	-
54"		65.4	88.2	65.4	88.2	-	-	-	-	-	-
60"		45.3	61.1	45.3	61.1	-	-	-	-	-	-
66"		-	-	32.8	44.2	-	-	-	-	-	-
36"	78"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
48"		100.0	128.4	100.0	128.4	100.0	130.0	100.0	135.0	-	-
54"		64.9	87.6	64.9	87.6	-	-	-	-	-	-
60"		-	-	44.3	59.8	-	-	-	-	-	-
36"	84"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	-	-	-	-	-	-
48"		100.0	130.0	100.0	130.8	-	-	100.0	135.0	-	-
54"		-	-	64.9	87.6	-	-	-	-	-	-
36"	89-1/4"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	134.3	-	-	106.7	140.0	-	-
48"		100.0	130.0	100.0	120.8	-	-	100.0	131.4	-	-
36"	90"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	132.9	-	-	106.7	140.0	-	-
48"		-	-	100.0	119.5	-	-	100.0	130.0	-	-
36"	96"	100.0	130.0	106.7	140.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	136.2	-	-	106.7	140.0	-	-
48"		-	-	100.0	122.1	-	-	100.0	135.0	-	-



GLASS TYPE 'A'

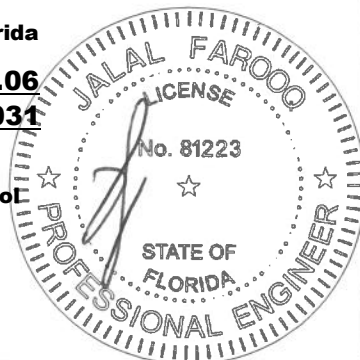


GLASS TYPE 'B'

GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 26-0910.06
Expiration Date: **06/23/2031**
By: *Manuel Perez*
Miami-Dade Product Control

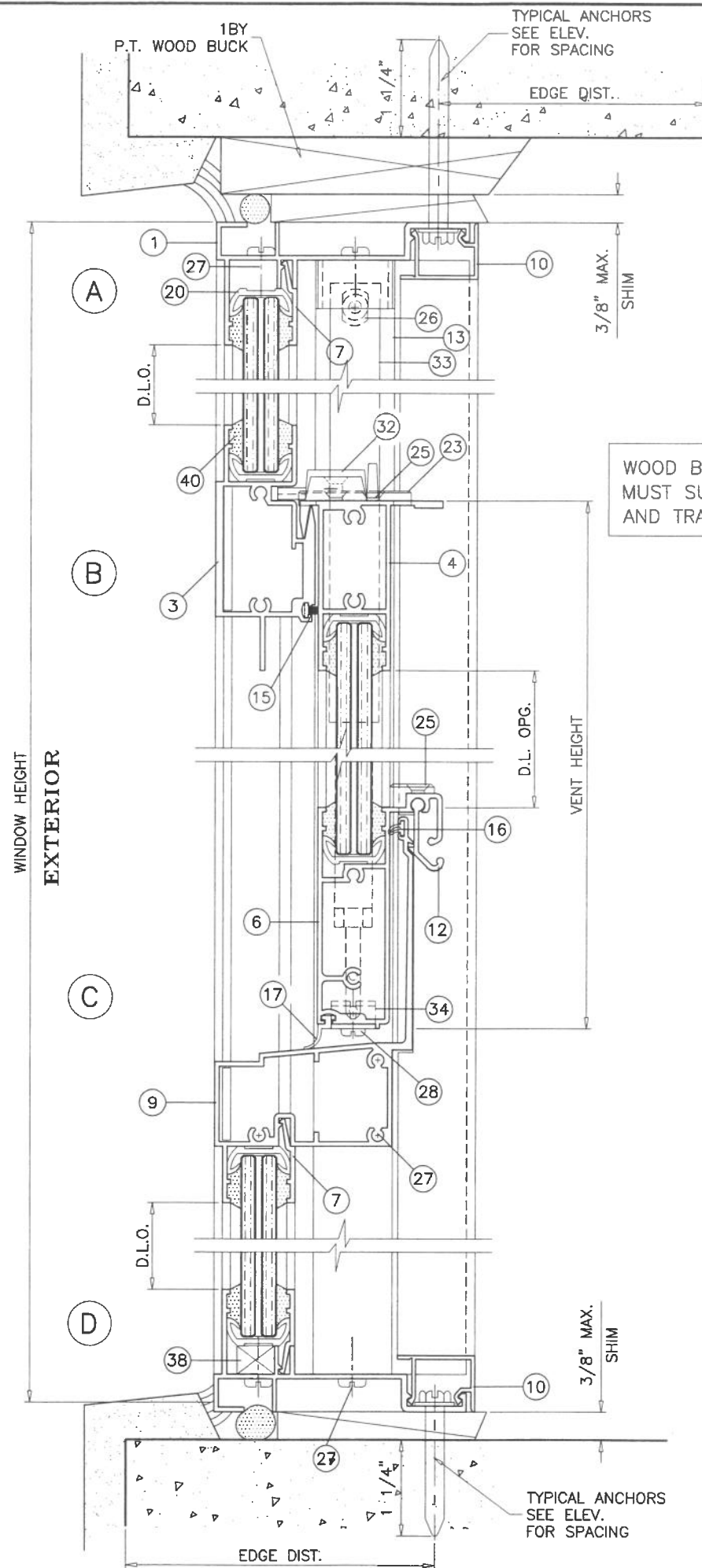


SEP 08 2026

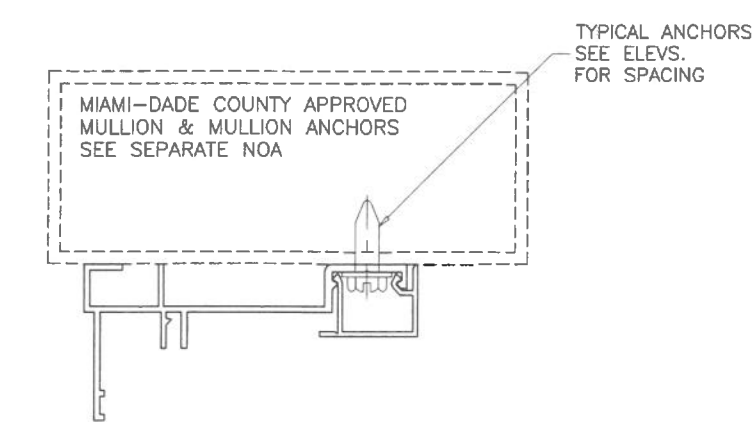
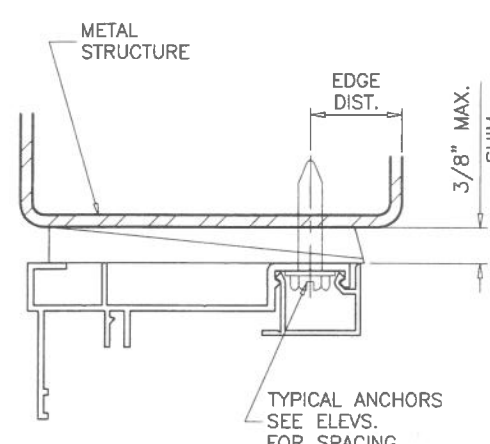
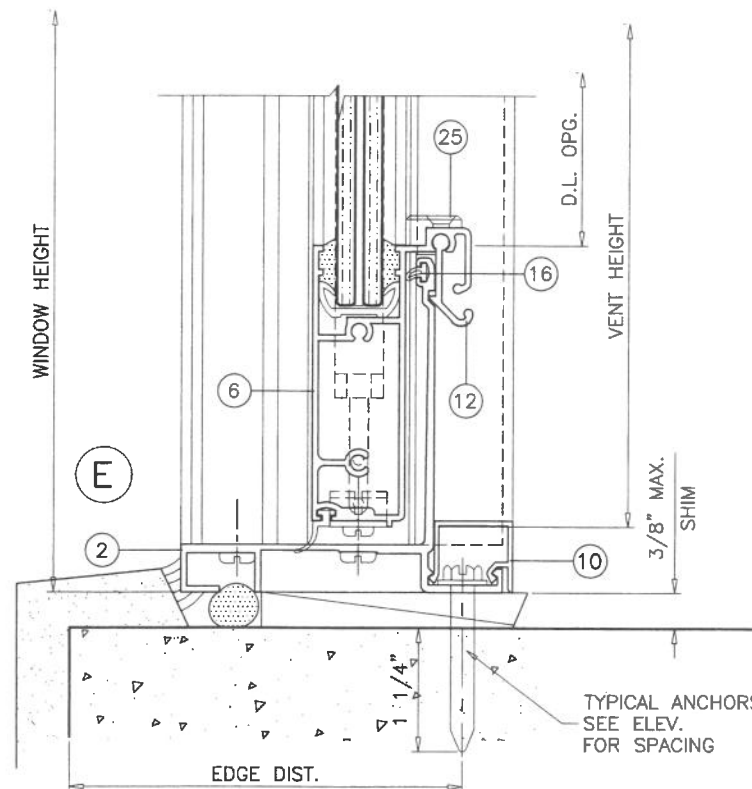
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES 500Y ALUM SINGLE HUNG WINDOW (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

Revisions:		by description	
no	date	no	description
H	04.08.15	I	UPDATED TO 2014 FBC
I	02.22.18	J	UPDATED TO 2017 FBC
J	11.20.20	K	UPDATED TO 2020 FBC
K	09.11.23	L	NO CHANGE THIS SHEET
L	08.20.26		UPDATED TO 2026 FBC
date: 10-24-03		scale: 1/2"=1'-0"	
dr. by: TARIQ		chk. by:	
drawing no.		W03-96	
sheet 2 of 8			



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



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
1/4" X 2-3/4" 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)

TYPE 'B' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
1/4" X 2-3/4" ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

TYPE 'C' - 1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS BY 'HILTI' (Fu=120 KSI, Fy=92 KSI)
1/4" DIA. TEKS SELECT OR 304/305/316 ST/ST SCREWS (Fu= 120 KSI, Fy=92 KSI)
 INTO F.B.C. 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. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

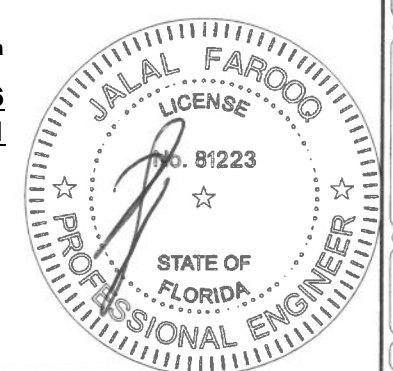
CRITICAL EDGE DISTANCE

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 = 1500 PSI MIN.

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH DOWSIL 795 SEALANT.

PRODUCT REVISED
 As complying with the Florida Building Code
NOA-No. 26-0910.06
Expiration Date: 06/23/2031
 By: *Manuel Perez*
 Miami-Dade Product Control
SEP 08 2026



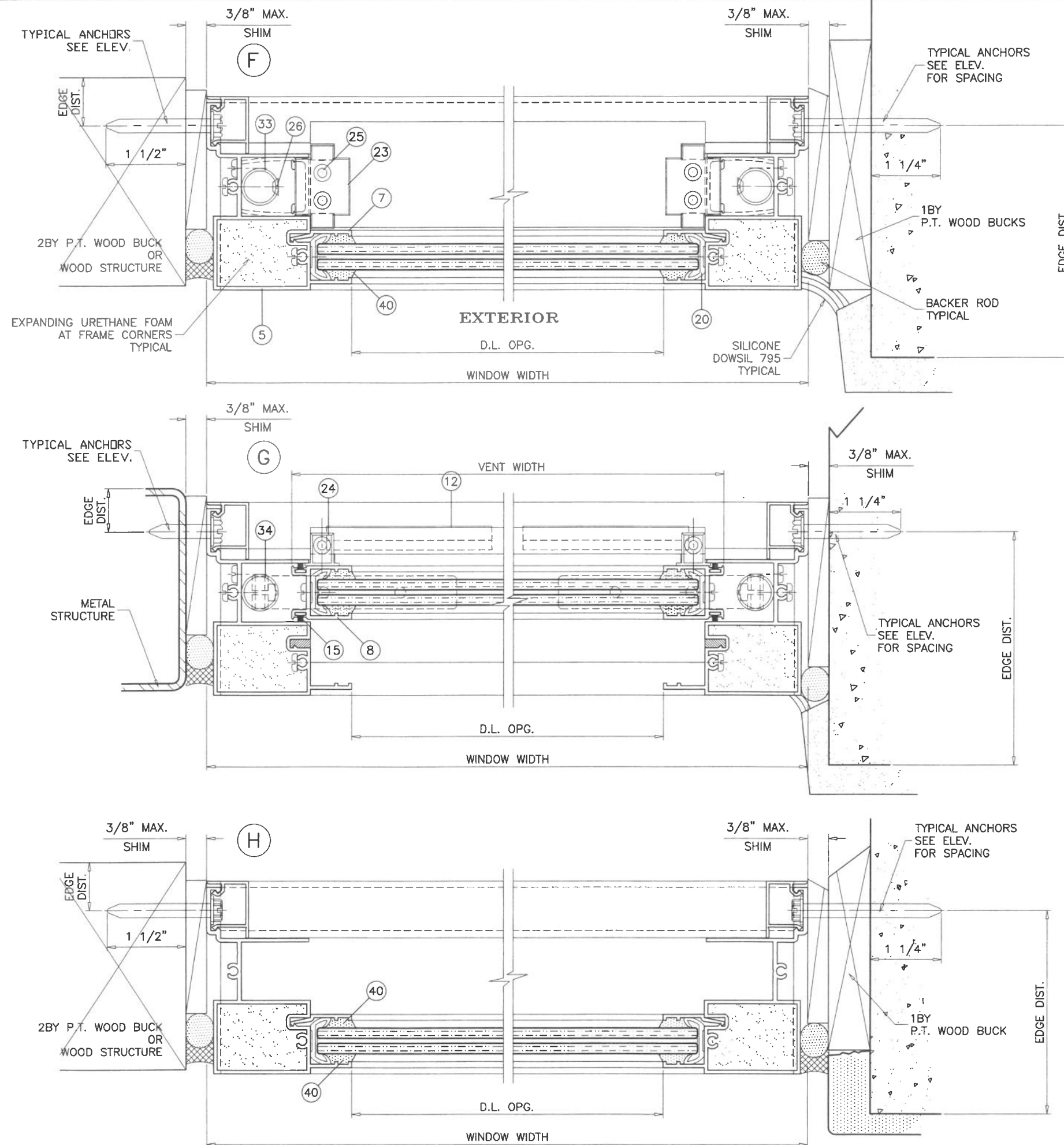
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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TECNOGLASS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

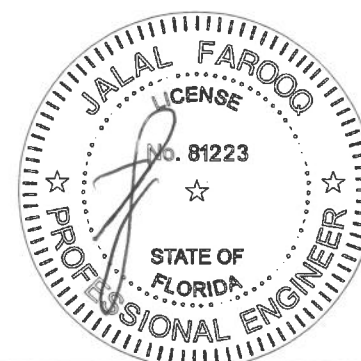
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no	date	by	description	
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date: 10-24-03
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 dr. by: TARIQ
 chk. by:

drawing no.
W03-96
 sheet 3 of 8



PRODUCT REVISED
 As complying with the Florida
 Building Code
 NOA-No. **26-0910.06**
 Expiration Date: **06/23/2031**
 By: *Manuel Peres*
 Miami-Dade Product Control
SEP 08 2026

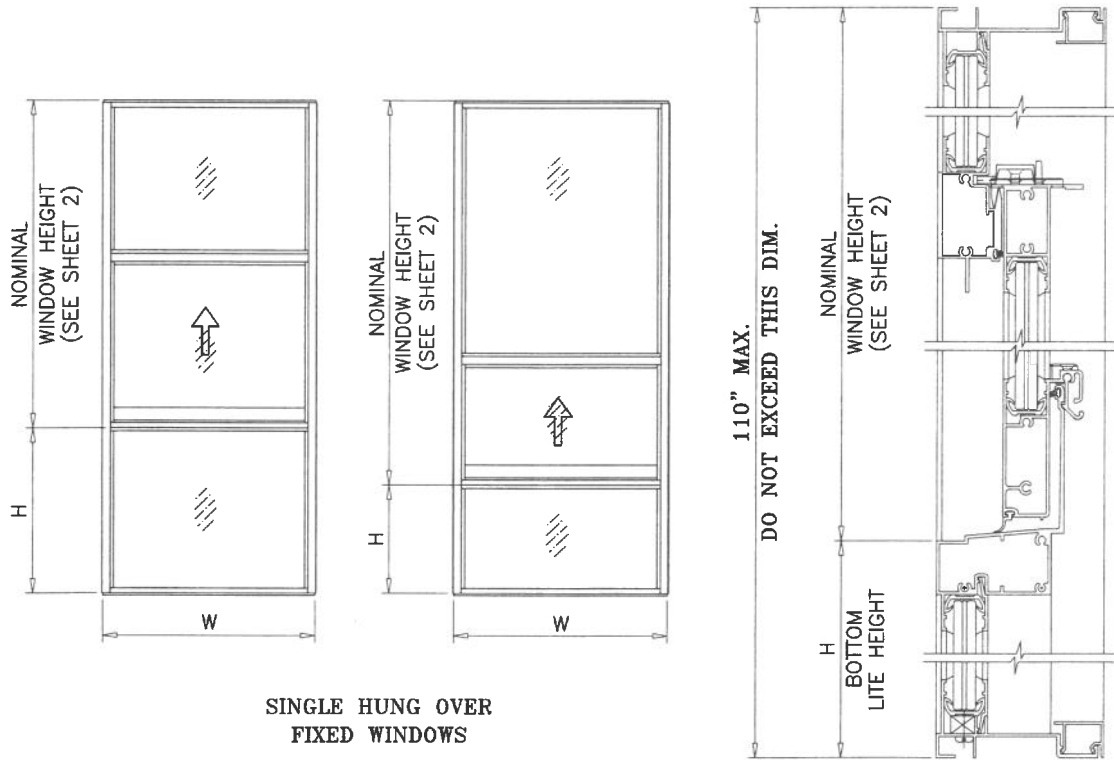


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AL-FAROOQ CORPORATION
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 COMP-ANL\W03-96RC

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date:	10-24-03	scale:	1/2" = 1"	dr. by:	TARIQ
chk. by:					
drawing no.	W03-96				
sheet	4 of 8				

WINDOWALL BOTTOM LITE CAPACITY			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		GLASS TYPE 'A' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
24"	38-3/8"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
24"	42"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0
42"		91.5	119.0
24"	48"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0



REFER TO SHEET 2 TO OBTAIN CAPACITY OF WINDOW PORTION FOR CONFIGURATION/GLASS USED.

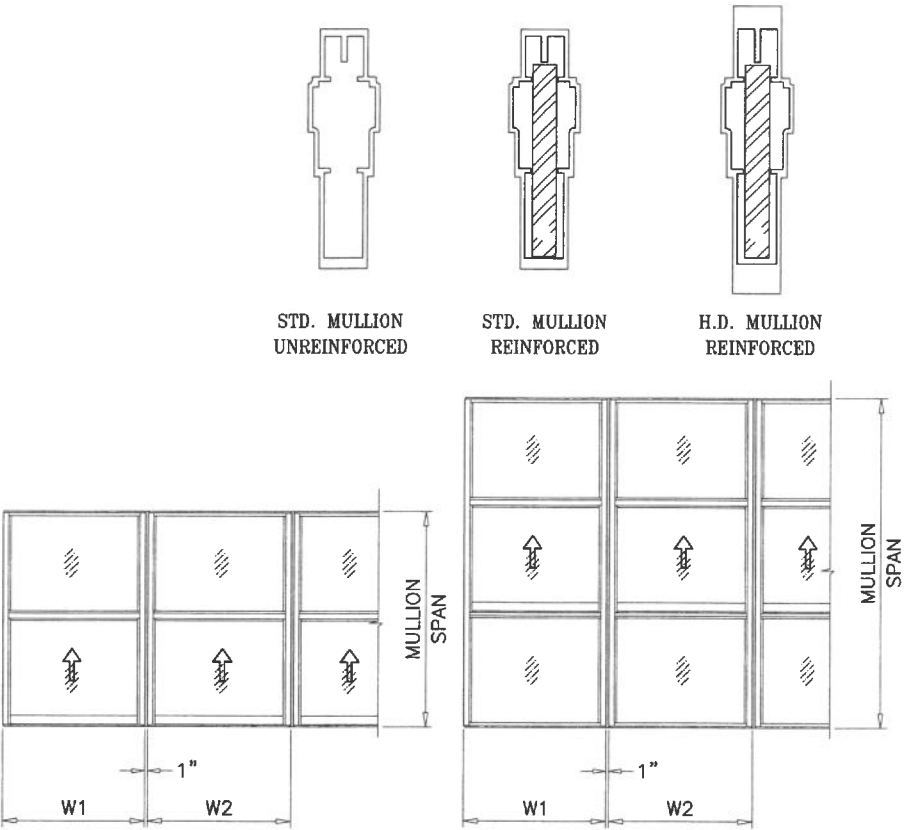
REFER TO CHART ABOVE TO OBTAIN CAPACITY OF BOTTOM LITE OF WINDOWALL.

REFER TO CHARTS AT RIGHT OF THIS PAGE TO OBTAIN MULLION CAPACITY.

USE LOWEST VALUES OF OPTIONS CONSULTED.

MULLION CAPACITY CHART - PSF			
WINDOW DIMS.		STD. MULLION UNREINFORCED	
WIDTH (W)	MULL SPAN	EXT.(+)	INT.(-)
36"	48"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"		100.0	130.0
66"		100.0	130.0
72"		100.0	130.0
36"	54"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"		100.0	130.0
36"	60"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
36"	66"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
48"		100.0	130.0
36"	72"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0

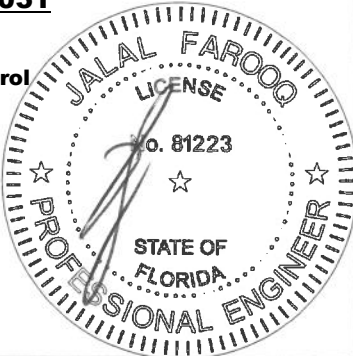
MULLION CAPACITY CHART - PSF					
WINDOW DIMS.		STD. MULLION REINFORCED		H.D. MULLION REINFORCED	
WIDTH (W)	MULL SPAN	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	66"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	72"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	78"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	84"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	90"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	96"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	108"	100.0	130.0	100.0	130.0
42"		100.0	118.4	100.0	130.0
48"		100.0	103.6	100.0	130.0
54"		100.0	116.6	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	110"	100.0	130.0	100.0	130.0
42"		100.0	114.1	100.0	130.0
48"		99.9	99.9	100.0	130.0



$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 3/4"$$

PRODUCT REVISED
 As complying with the Florida Building Code
NOA-No. 26-0910.06
Expiration Date: 06/23/2031
 By: *Manuel Torres*
 Miami-Dade Product Control

SEP 08 2026



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

COMP - ANL\W03-96RC

SERIES 500Y ALUM SINGLE HUNG WINDOW (L.M.I.)
TECNOGLASS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
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revisions:

no	date	by	description
H	04.08.15		UPDATED TO 2014 FBC
I	02.22.18		UPDATED TO 2017 FBC
J	11.20.20		UPDATED TO 2020 FBC
K	09.11.23		NO CHANGE THIS SHEET
L	08.20.26		NO CHANGE THIS SHEET

date: 10-24-03
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no. **W03-96**
 sheet 5 of 8

AL-FAROOQ CORPORATION
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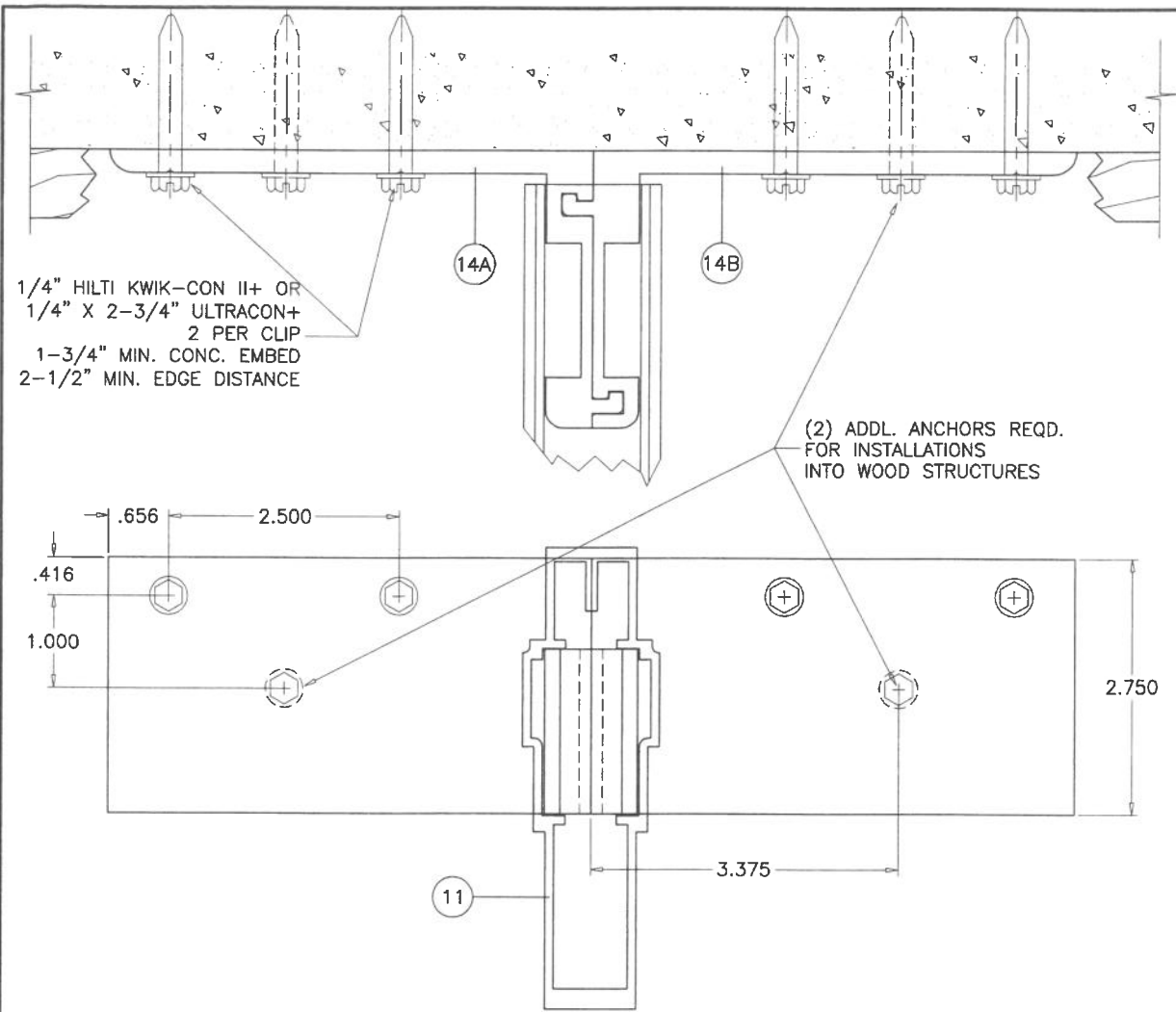
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revisions:

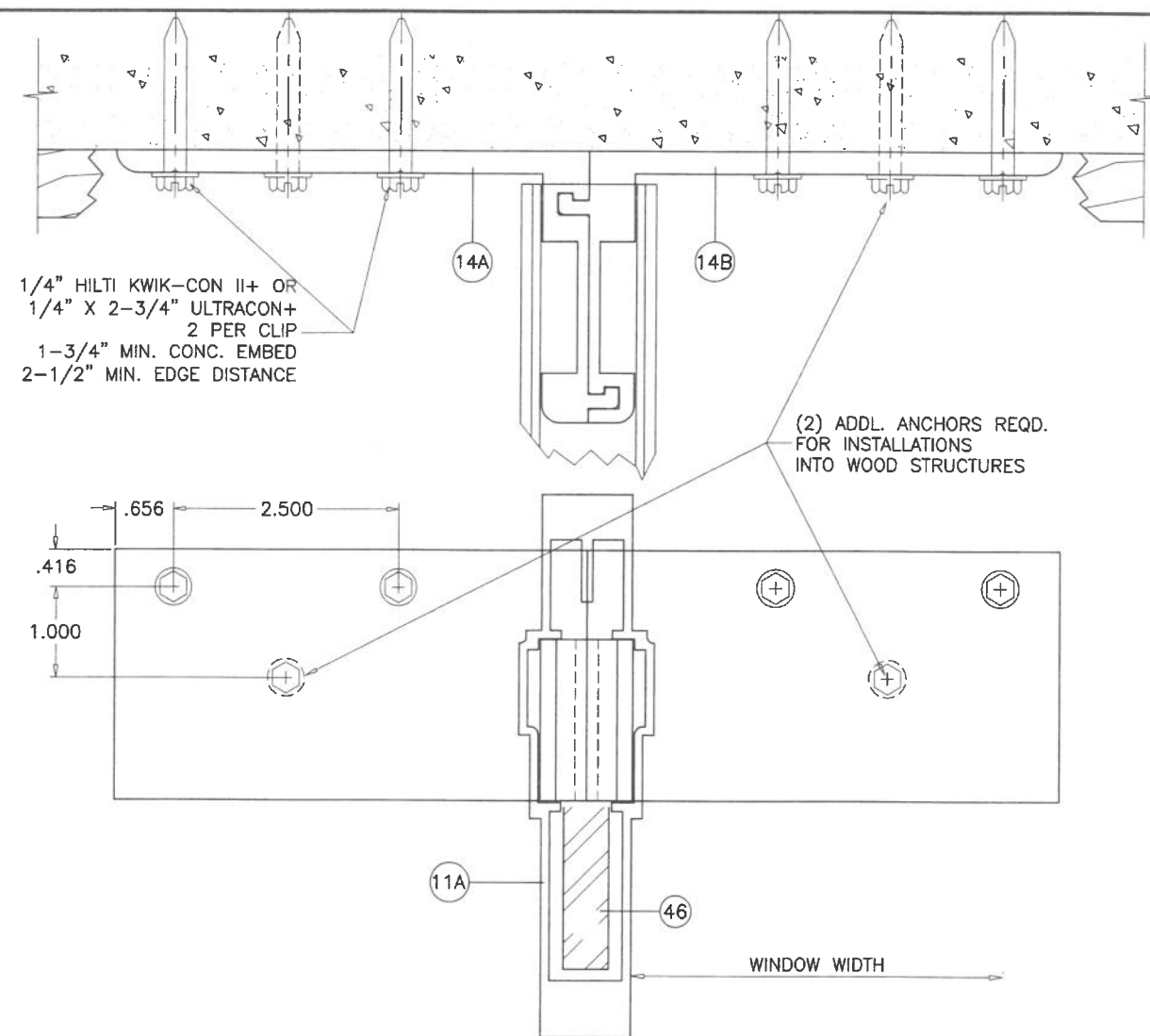
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 chk. by:

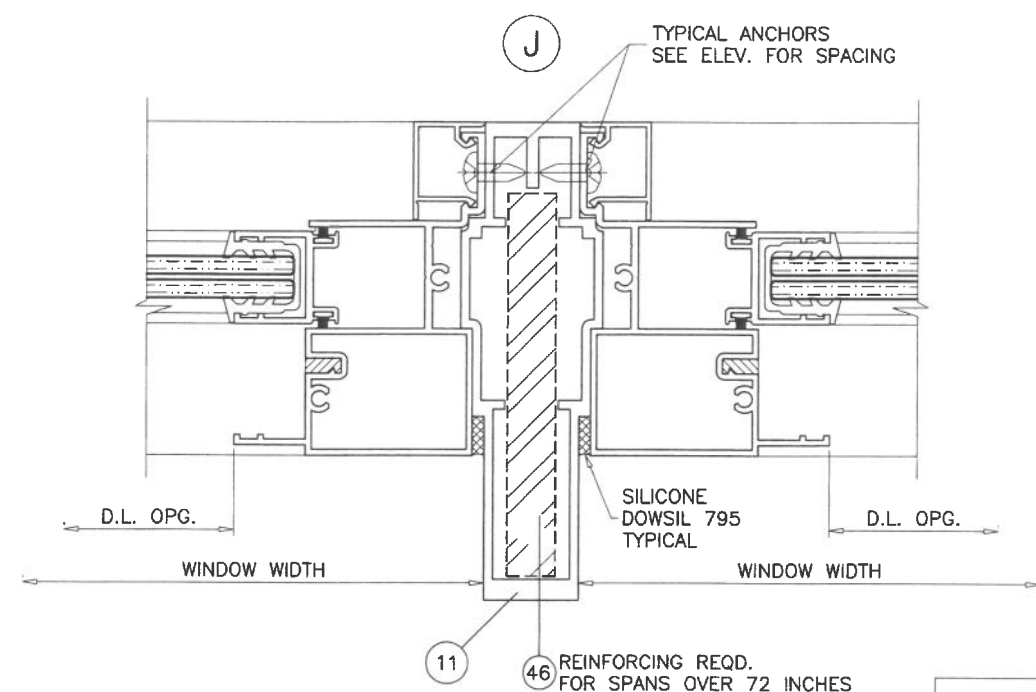
drawing no. **W03-96**
 sheet 5 of 8



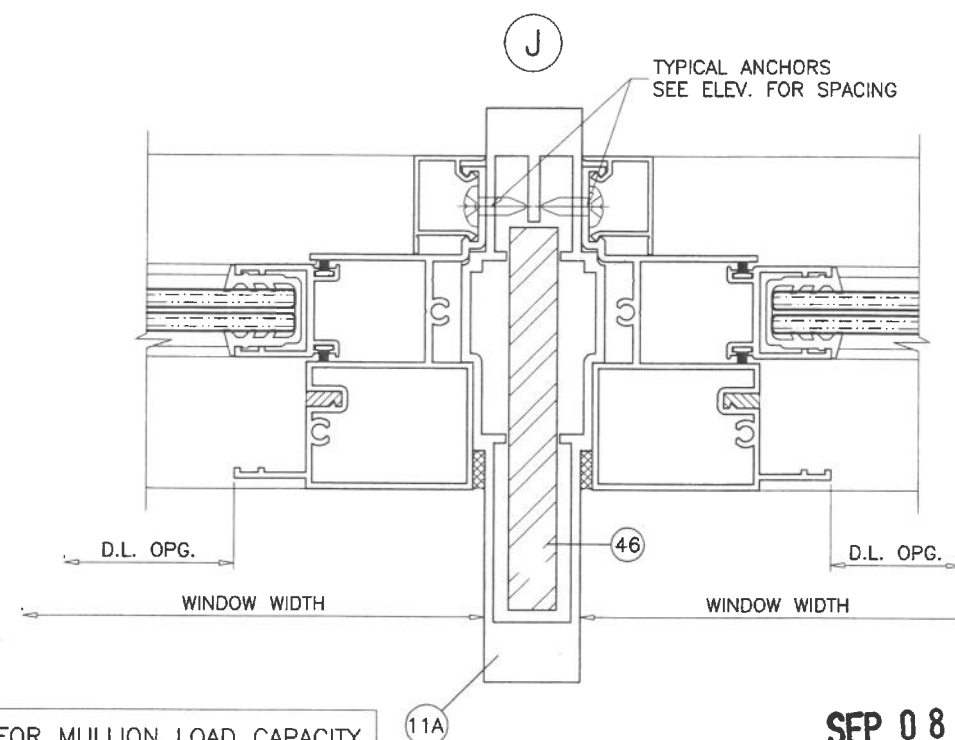
MULLION CONNECTION AT HEAD & SILL
OPTION 1



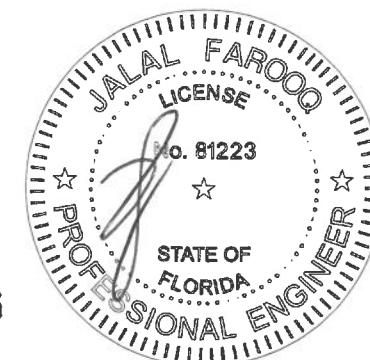
MULLION CONNECTION AT HEAD & SILL
OPTION 2



SEE CHARTS ON SHEET 5 FOR MULLION LOAD CAPACITY



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By: *Manuel Fern*
Miami-Dade Product Control



SEP 08 2026

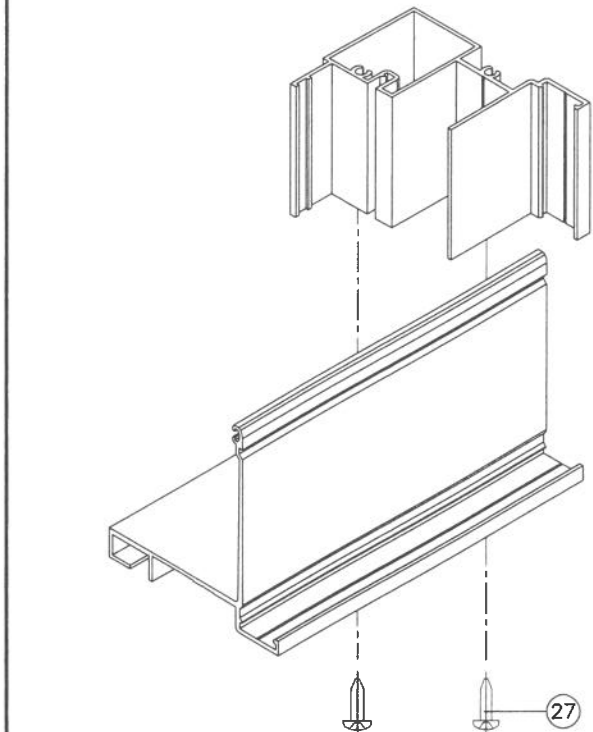
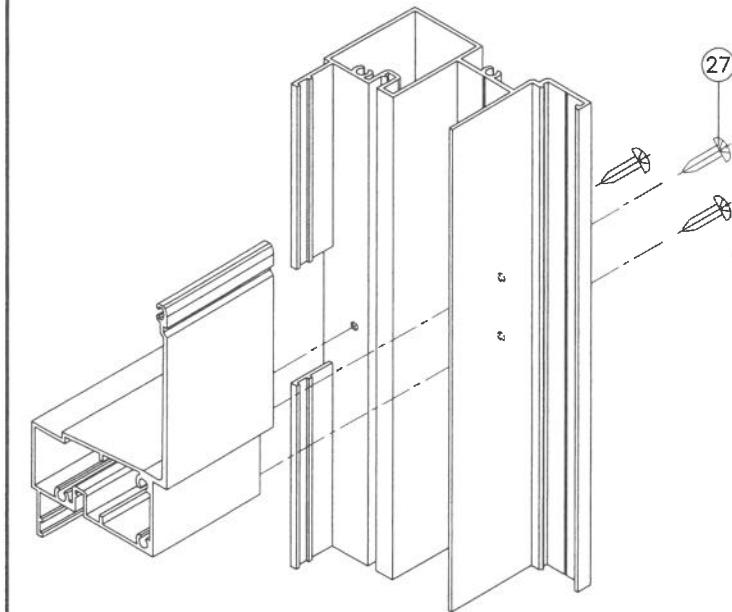
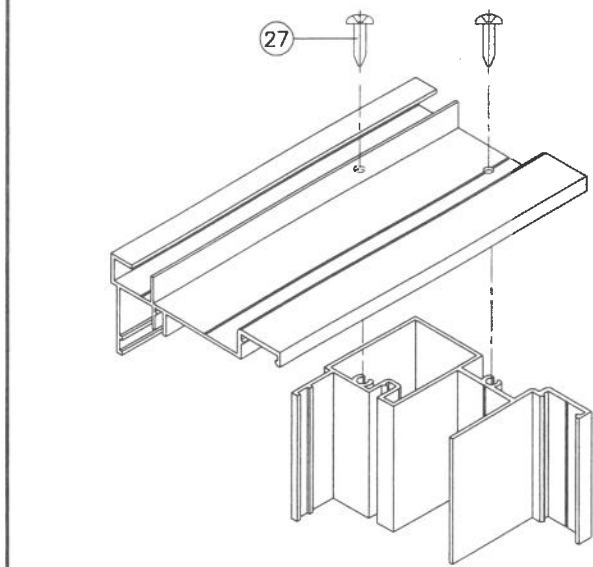
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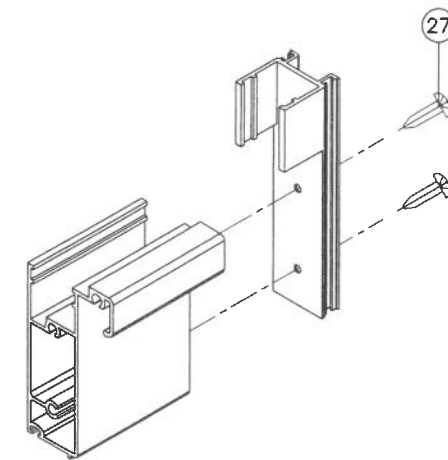
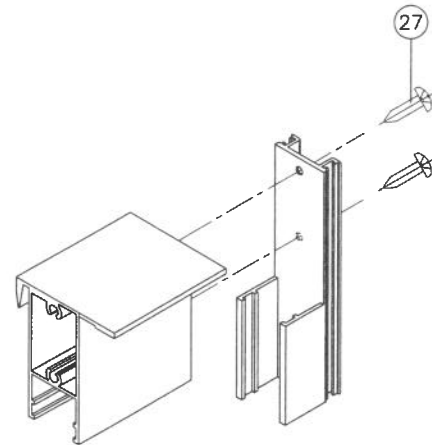
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dr. by:	TARIQ
chk. by:	

drawing no.	W03-96
sheet	6 of 8



FRAME CORNERS DETAIL

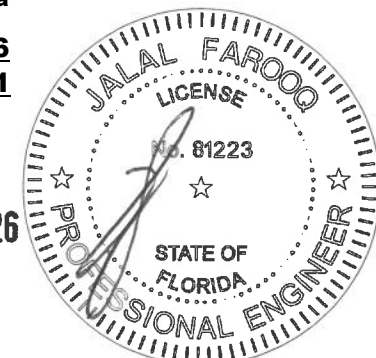


VENT CORNER DETAIL

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	500Y-001	AS REQD.	HEAD & FIXED SILL	6063-T6	AT FRAME
2	500Y-002	AS REQD.	FRAME SILL	6063-T6	AT FRAME
3	500Y-003	1	MEETING RAIL	6005-T5	AT FRAME
4	500Y-004	1	VENT TOP	6005-T5	SASH VENT
5	500Y-005	2	JAMB	6063-T6	AT FRAME
6	500Y-006A	1	VENT BOTTOM	6063-T6	SASH VENT
7	500Y-007	AS REQD.	GLAZING BEAD	6063-T6	AT FIXED GLASS
8	500Y-008	2	VENT SIDE	6063-T6	SASH VENT
9	500Y-009A	AS REQD.	SILL MEETING RAIL	6005-T5	AT FRAME
10	500Y-010	AS REQD.	TRACK COVER (OPTIONAL)	6063-T6	AT FRAME
11	500Y-023	AS REQD.	STD. MULLION	6063-T6	AT FRAME
11A	500Y-029	AS REQD.	H.D. MULLION	6063-T6	AT FRAME
12	500Y-012	2/VENT	HANDICAP FINGER LOCK	6063-T6	SASH VENT
13	500Y-013	1	VENT STOP	6063-T6	AT TOP OF FRAME
14A	500Y-024	AS REQD.	FEMALE ANCHOR CLIP	6063-T6	TOP & BOTTOM OF MULL
14B	500Y-025	AS REQD.	MALE ANCHOR CLIP	6063-T6	TOP & BOTTOM OF MULL
15	W33261NK	AS REQD.	WEATHERSTRIPPING PILE	-	AT VENT SIDE MEETING RAIL
16	WV-3189	AS REQD.	WEATHERSTRIPPING GASKET	VINYL	SILL & SILL MEETING RAIL
17	V-048	AS REQD.	WEATHERSTRIPPING GASKET	NEOPRENE	BOTTOM OF SASH VENT
20	V-051	AS REQD.	MARINE GLAZED GASKET	TPE	MELTPOINT, DUROMETER 75±5 SHORE A
23	P-012	2/ VENT	VENT TOP GUIDE PLASTIC M&M	NYLON	TOP OF SASH VENT
24	P-013	2/ VENT	VENT BOTTOM GUIDE PLASTIC M&M	NYLON	BOTTOM OF SASH VENT
25	-	AS REQD.	#8 X 3/8" LG. FH. SMS. ST/ST PHILLIPS	-	AT P-012, P-013 & PD-203
26	-	2	#8 X 1" LG. FH. SMS. ST/ST PHILLIPS	-	AT TOP OF BALANCE
27	-	AS REQD.	#10 X 1" LG. PH. SMS. ST/ST PHILLIPS	-	ASSEMBLY SCREWS
28	-	6	#10 X 3/4" LG. PH. SMS. ST/ST PHILLIPS	-	AT BALANCE CLIP
32	PD-203	2/ WDW	SASH LOCK	-	AT TOP OF SASH
33	-	2/ WDW	ULTRA-LIFT BALANCE #30	-	AT FRAME
34	-	2/ WDW	ULTRA-LIFT NON TILT BRACKET	-	-
38	-	-	3/8" X 1/2" X 4" LG.SETTING BLOCK3	NEOPRENE	-
40	DC-995	-	GLAZING COMPOUND	SILICONE	-
46	-	AS REQD.	1/2" X 4" X 104" LG. STEEL.	-	AT MULLION

PRODUCT REVISED
As complying with the Florida
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NOA-No. **26-0910.06**
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Miami-Dade Product Control

SEP 08 2026



revisions: no date by description

H	04.08.15		UPDATED TO 2014 FBC
I	02.22.18		UPDATED TO 2017 FBC
J	11.20.20		UPDATED TO 2020 FBC
K	09.11.23		NO CHANGE THIS SHEET
L	08.20.26		UPDATED TO 2026 FBC

date: 10-24-03

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.

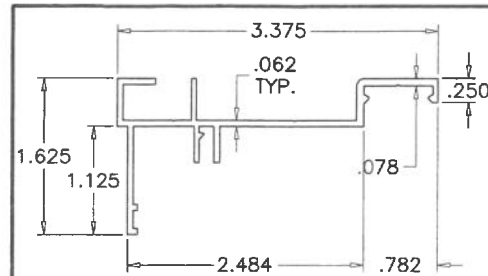
W03-96

sheet 7 of 8

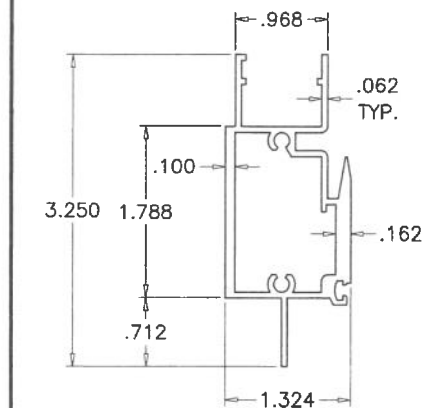
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 262-6978
FAX. (305) 262-6978

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

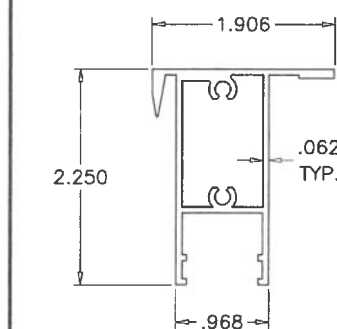
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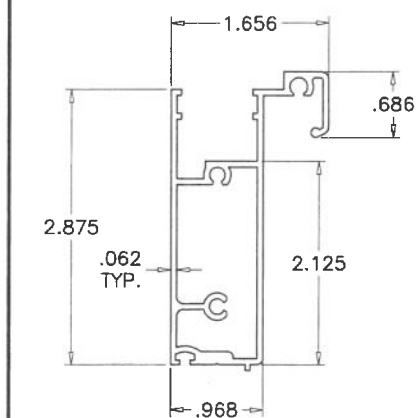
1 FRAME HEAD/FIXED SILL



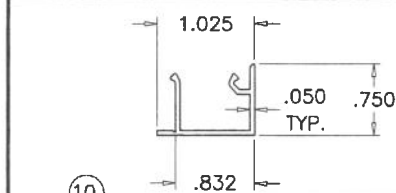
3 MEETING RAIL



4 VENT TOP RAIL

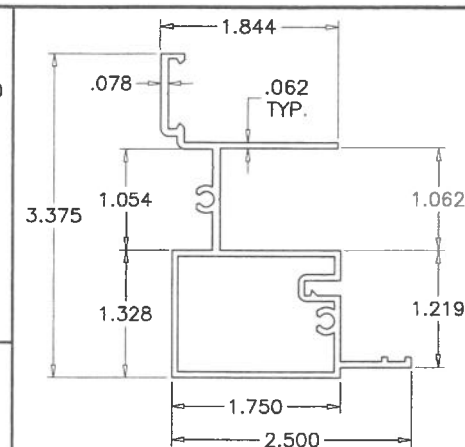


6 VENT BOTTOM RAIL

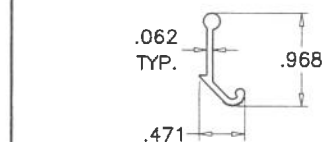


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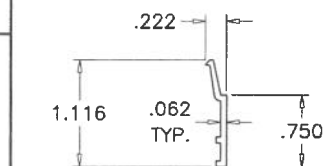
INSTALLATION TRACK COVER



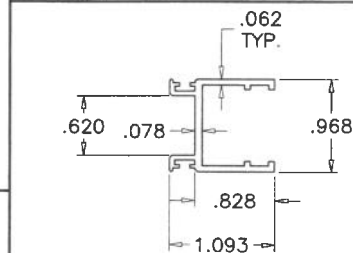
5 FRAME JAMB



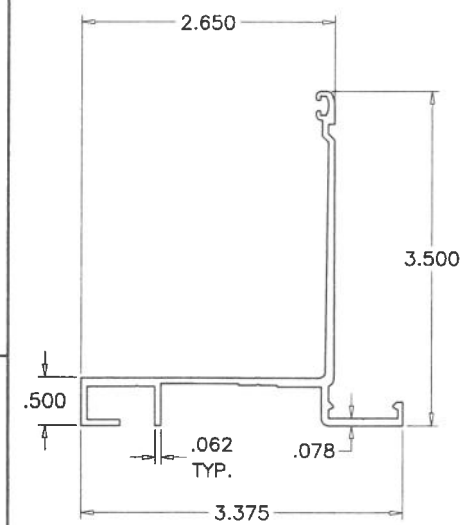
12 VENT LATCH



7 GLAZING BEAD

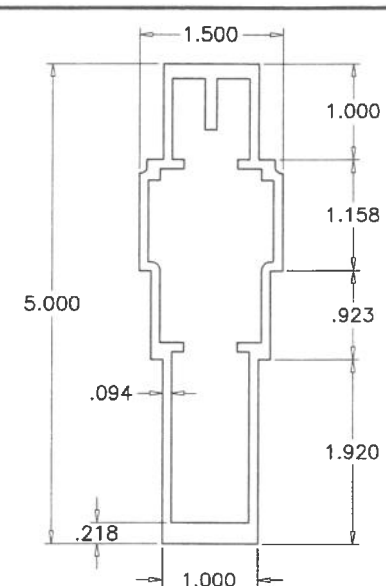


8 VENT SIDE RAIL

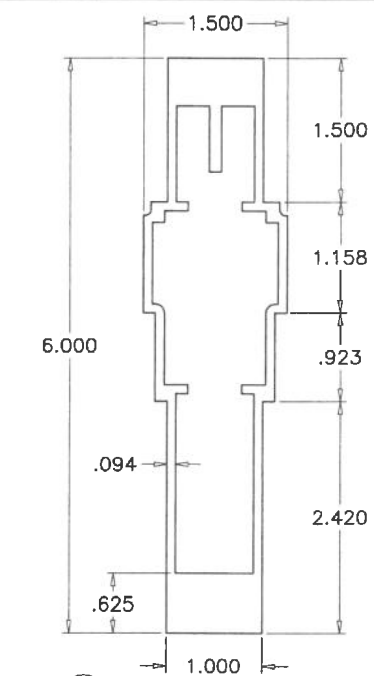


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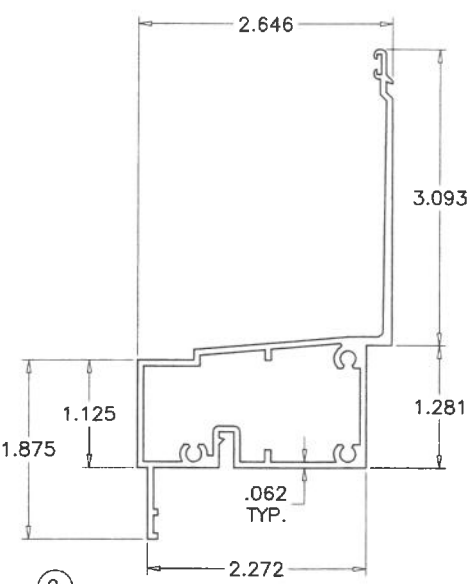
FRAME SILL



11 STD. MULLION

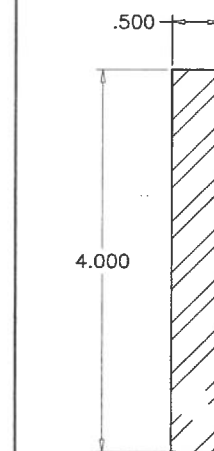


11A H.D. MULLION



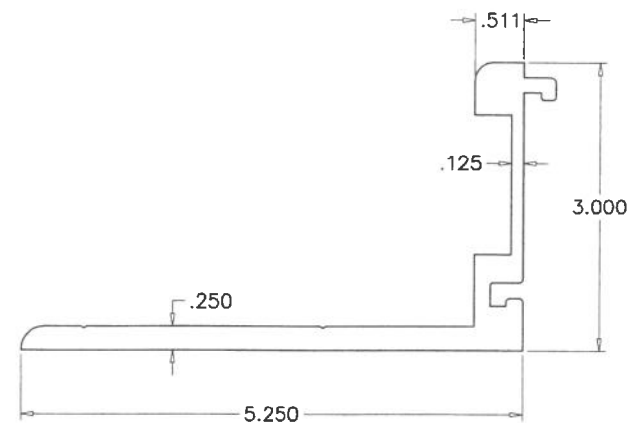
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SILL MTG. RAIL W/ FIXED BOTTOM



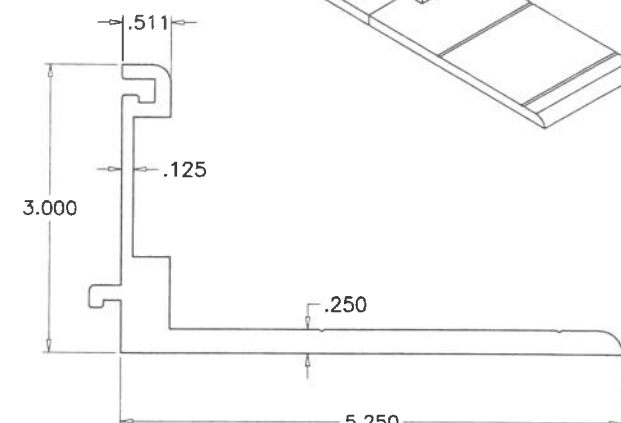
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MULLION REINF.



14A

FEMALE ANCHOR CLIP

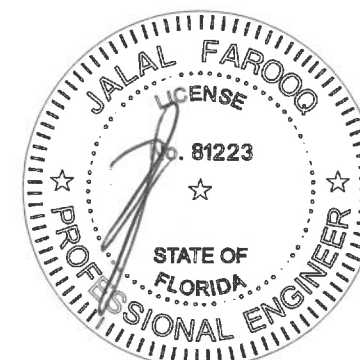


14B

MALE ANCHOR CLIP

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COMP-ANL\W03-96RC

SERIES 500Y ALUM SINGLE HUNG WINDOW (L.M.I.)

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sheet 8 of 8