



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

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 "500-Y" Aluminum Single Hung Window – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W03-111**, titled "Series 500Y Alum. Single Hung Window (S.M.I.)", sheets 1 through 10 of 10, dated 12/11/03, with revision **J** dated 11/20/20, 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: 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.

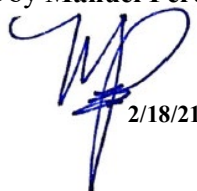
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 NOA No. 20-0310.18** 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.**




2/18/21

NOA No. 20-1202.09
Expiration Date: June 23, 2025
Approval Date: February 25, 2021
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

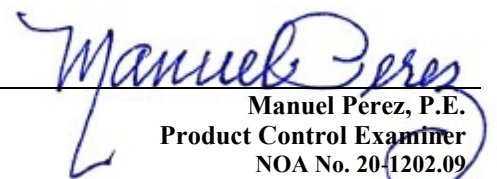
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA's No. 07-0706.07 and 05-0519.01)
2. Drawing No. **W03-111**, titled "Series 500Y Alum. Single Hung Window (S.M.I.)", sheets 1 through 10 of 10, dated 12/11/03, with revision **I** dated 02/22/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0725.09)

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) Small Missile Impact Test per FBC, TAS 201-94
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 single hung window, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-5988**, dated 08/31/09, signed and sealed by Julio E. Gonzalez, P.E.
(Submitted under NOA No. 07-0706.07)
2. Test report on: 1) Pendulum Impact Test, per CPSC 16 CFR 1201 Category II, 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. 07-0706.07)
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) Small 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 Fenestration Testing Laboratories, Inc., Test Report No. **FTL-4526** and **FTL-4352**, dated 02/18/05 and 01/10/05 respectively, both signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 05-0519.01)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1202.09
Expiration Date: June 23, 2025
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

B. TESTS (CONTINUED)

4. 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 Laboratories, Inc., Test Report No. **FTL-4268**, dated 01/10/05, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA No. 05-0519.01)

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)**, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0725.09)
2. Glazing complies with **ASTM E 1300-09**

D. QUALITY ASSURANCE

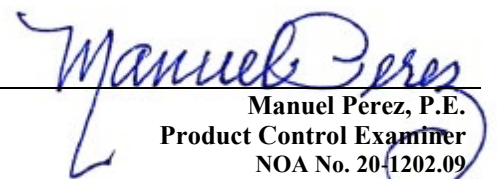
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

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. **19-0305.02** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 05/09/19, expiring on 07/08/24.
3. 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.

F. STATEMENTS

1. Notice of Acceptance No. **18-0725.09**, issued to Tecnoglass, LLC, for their Series "500-Y" Aluminum Single Hung Window – S.M.I., approved on 10/18/18 and expiring on 06/23/20.
(Submitted under NOA No. 20-0310.18)
2. 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. 14-0923.06)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1202.09
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Tecnoglass, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED


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

F. STATEMENTS (CONTINUED)

3. 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. 14-0923.06)
4. 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. 14-0923.06)
5. Laboratory compliance letters for Test Reports No.'s **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)

G. OTHERS

1. Notice of Acceptance No. **18-0725.09**, issued to Tecnoglass, LLC, for their Series "500-Y" Aluminum Single Hung Window – S.M.I., approved on 10/18/18 and expiring on 06/23/20.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1202.09
Expiration Date: June 23, 2025
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W03-111**, titled “Series 500Y Alum. Single Hung Window (S.M.I.)”, sheets 1 through 10 of 10, dated 12/11/03, with revision **J** dated 11/20/20, 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, 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.
2. Glazing complies with **ASTM E 1300-09**

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. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.
3. 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 November 20, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **20-0310.18**, issued to Tecnoglass, LLC, for their Series “500-Y” Aluminum Single Hung Window – S.M.I., approved on 05/07/20 and expiring on 06/23/25.


Manuel Perez, P.E.
Product Control Examiner
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THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR INSTALLATIONS UPTO 30 FT. OF GRADE. SHUTTERS NOT REQUIRED FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SERIES 500Y
ALUMINUM SINGLE HUNG WINDOW

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

FOR S.H. WINDOW CAPACITY SEE CHARTS ON SHEETS 3 & 4.

FOR WINDOWALL BOTTOM LITE CAPACITY SEE CHART ON SHEET 7.

FOR WINDOW MULLION CAPACITY SEE CHART ON SHEET 7.

LOWER DESIGN PRESSURES FROM CHARTS ABOVE WILL APPLY TO ENTIRE SYSTEM.

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.

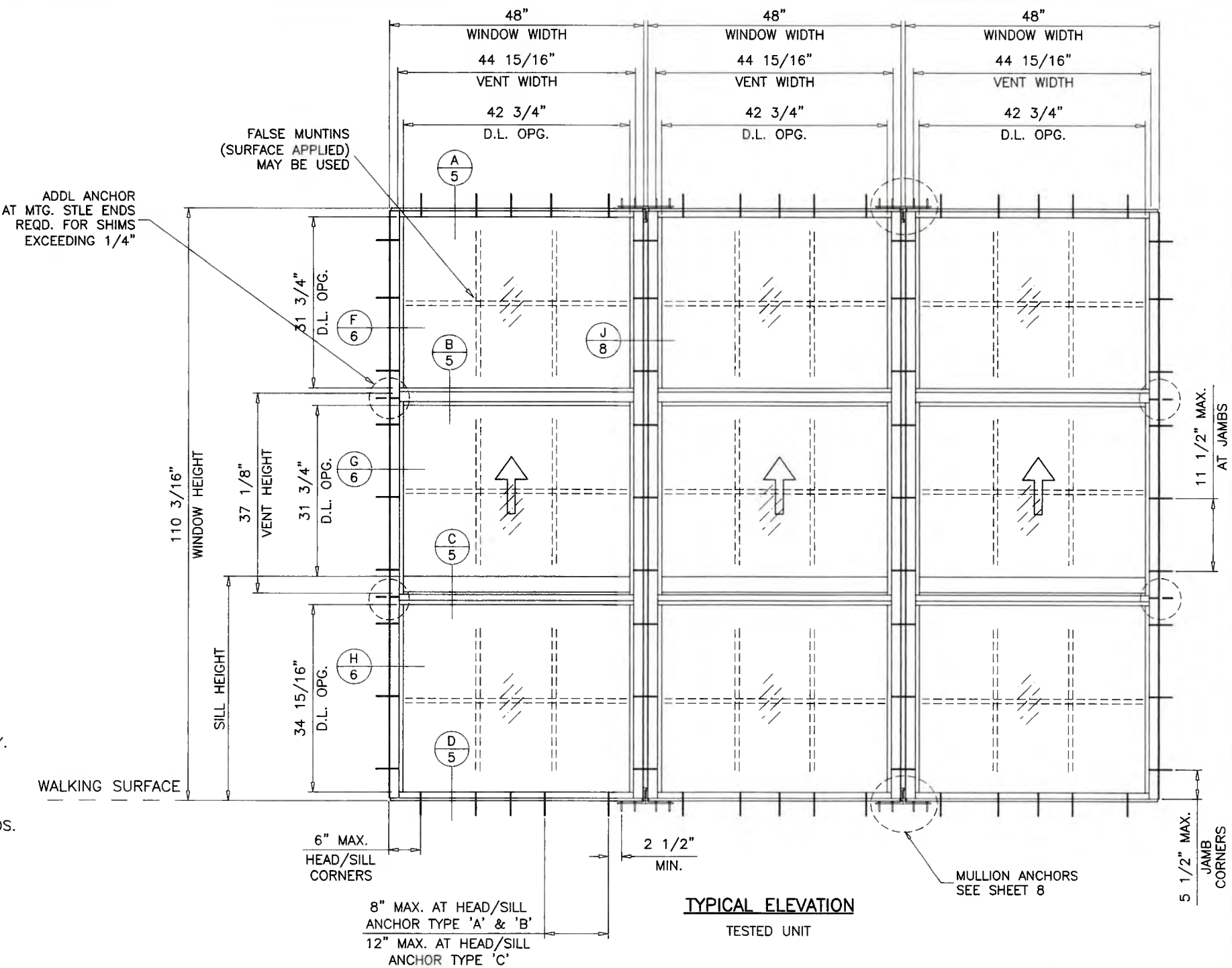
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

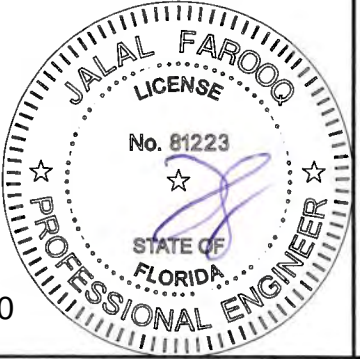
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



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

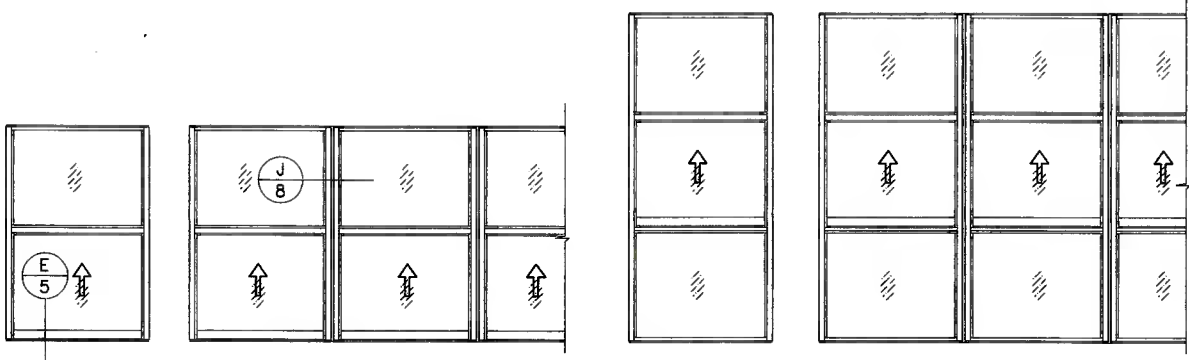
LAMINATED GLASS
SMALL MISSILE IMPACT

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1202.09
Expiration Date: 06/23/2025
By: *Manuel Perez*
Miami-Dade Product Control



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.



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-111RC

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

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

revisions:	no	date	by	description
	F	06.07.10	REV. PER BCCO COMMENTS	
	G	03.05.12	UPDATED TO 2010 FBC	
	H	04.08.15	UPDATED TO 2014 FBC	
	I	02.22.18	UPDATED TO 2017 FBC	
	J	11.20.20	UPDATED TO 2020 FBC	

date: 12-11-03

scale: 1/2"=1'-0"

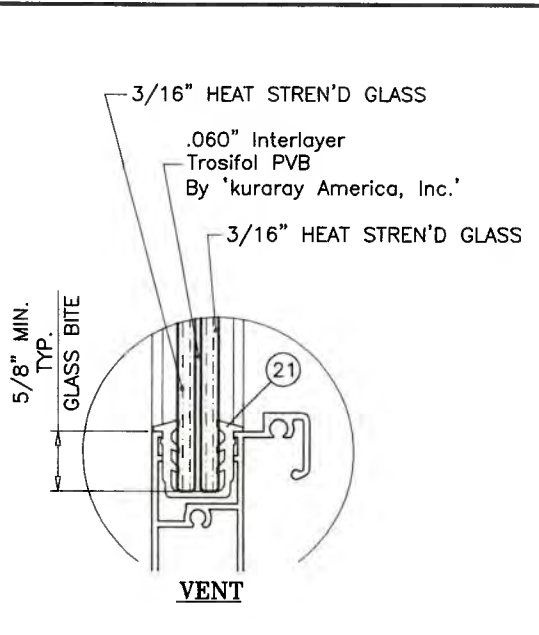
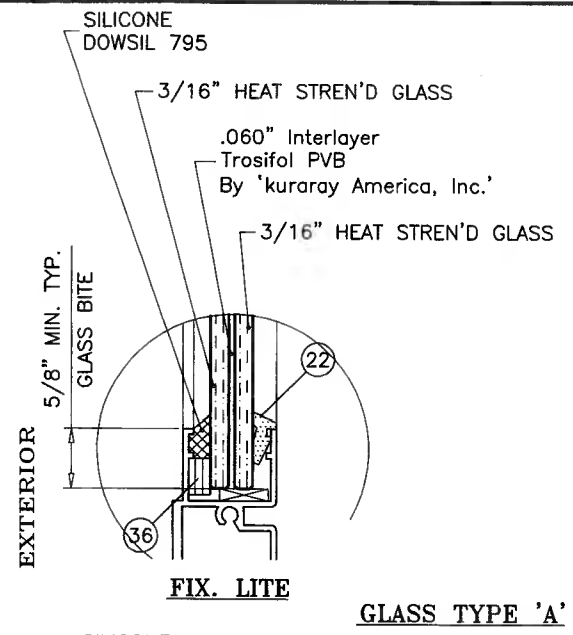
dr. by: TARIQ

chk. by:

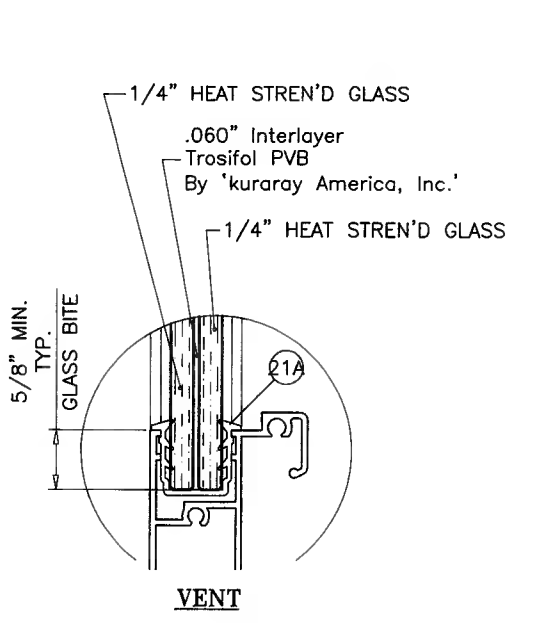
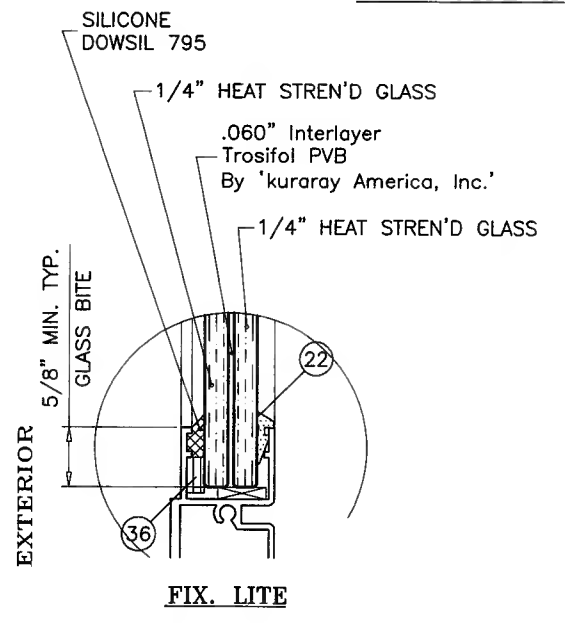
drawing no.

W03-111

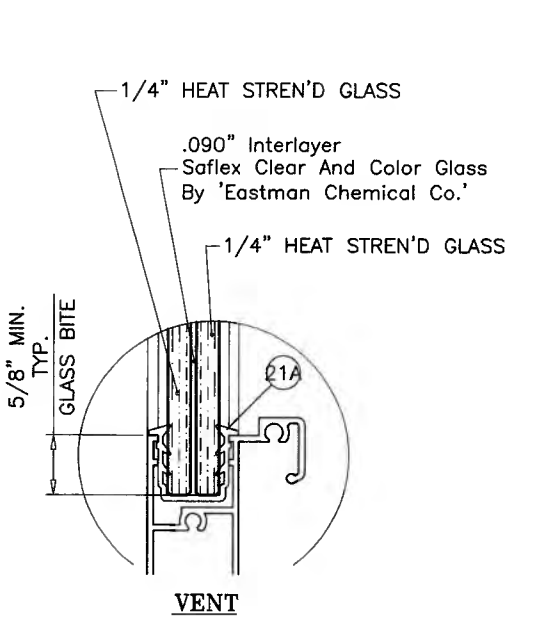
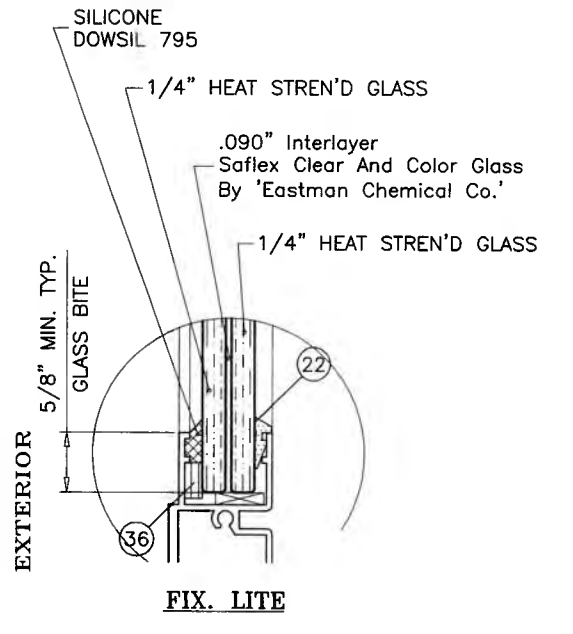
sheet 1 of 10



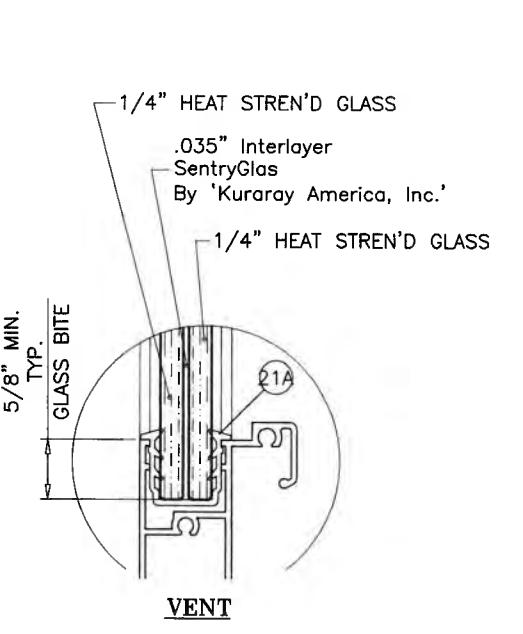
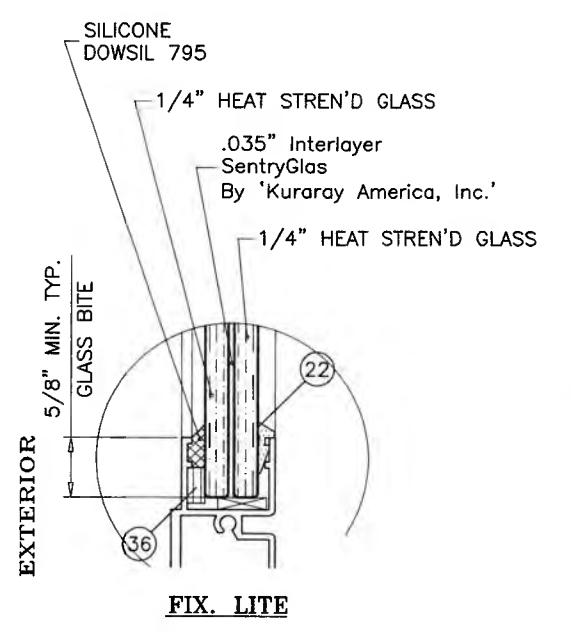
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GLASS TYPE 'B'



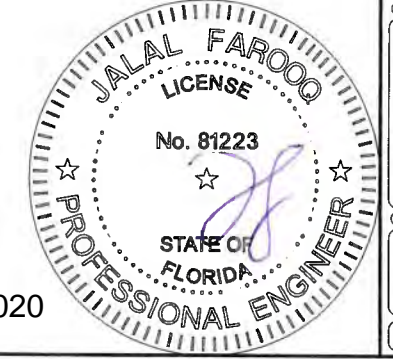
GLASS TYPE 'C'



GLASS TYPE 'D'

GLAZING OPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1202.09
Expiration Date: 06/23/2025
By: *Manuel Perez*
Miami-Dade Product Control



Sealed: 11/25/2020

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
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SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)
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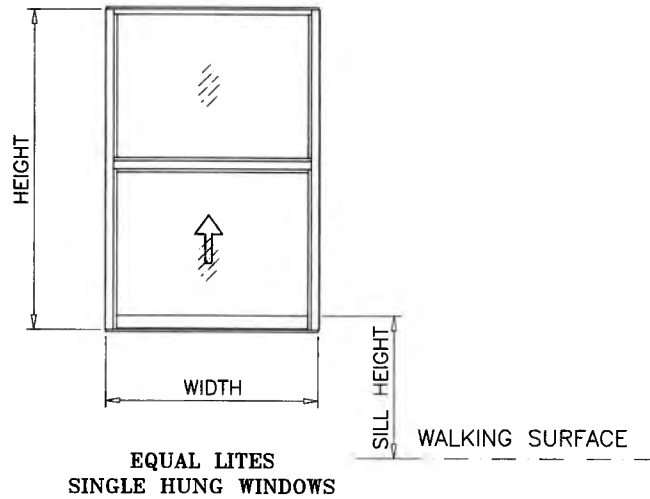
revisions:	no	date	by	description
	F	06.07.10		NO CHANGE THIS SHEET
	G	03.05.12		UPDATED TO 2010 FBC
	H	04.08.15		UPDATED TO 2014 FBC
	I	02.22.18		UPDATED TO 2017 FBC
	J	11.20.20		UPDATED TO 2020 FBC

date: 12-11-03	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
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drawing no.	W03-111
sheet	2 of 10

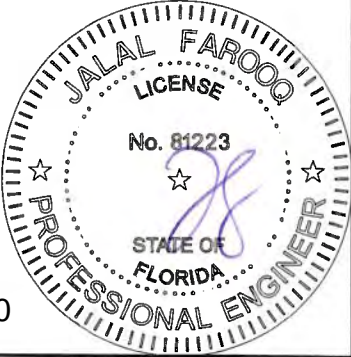
EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		3/8" MAX. SHIMS					
		GLASS TYPE 'A' & 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	36"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	130.0	100.0	140.0	100.0	130.0
54"		100.0	130.0	100.0	140.0	100.0	130.0
60"		89.7	116.6	89.7	116.6	83.3	108.3
66"		67.0	87.1	67.0	87.1	62.2	80.9
72"		51.3	66.7	51.3	66.7	47.7	62.0
36"	42"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	130.0	100.0	140.0	100.0	130.0
54"		100.0	130.0	100.0	140.0	100.0	130.0
60"		77.9	101.3	77.9	101.3	72.4	94.1
66"		58.0	75.4	58.0	75.4	53.9	70.1
72"		44.4	57.7	44.4	57.7	41.2	53.6
36"	48"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	130.0	100.0	140.0	100.0	130.0
54"		96.5	125.5	96.5	125.5	89.6	116.5
60"		69.2	90.0	69.2	90.0	64.3	83.6
66"		51.4	66.9	51.4	66.9	47.8	62.1
72"		39.3	51.1	39.3	51.1	36.5	47.4
36"	54"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	130.0	100.0	140.0	100.0	130.0
54"		87.7	114.0	87.7	114.0	81.5	105.9
60"		62.7	81.5	62.7	81.5	58.2	75.7
66"		46.4	60.3	46.4	60.3	-	-
72"		35.3	45.9	-	-	-	-
36"	60"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	130.0	100.0	140.0	100.0	130.0
54"		81.0	105.3	81.0	105.3	75.2	97.8
60"		57.6	74.8	57.6	74.8	-	-
66"	66"	42.4	55.2	-	-	-	-
36"		100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	130.0	100.0	133.7	100.0	130.0
54"		75.8	98.5	75.8	98.5	-	-
60"		53.5	69.6	-	-	-	-
36"	72"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	130.0	100.0	129.4	100.0	130.0
54"		71.7	93.2	-	-	-	-
36"	78"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	130.0	-	-	100.0	129.4
54"		68.5	89.1	-	-	-	-

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		3/8" MAX. SHIMS					
		GLASS TYPE 'A' & 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	84"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	100.0	140.0	100.0	130.0
48"		100.0	125.1	-	-	-	-
36"	89-1/4"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	-	-	100.0	130.0
48"		100.0	124.7	-	-	-	-
36"	90"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	-	-	100.0	130.0
36"	96"	100.0	130.0	100.0	140.0	100.0	130.0
42"		100.0	130.0	-	-	100.0	130.0



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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1202.09
Expiration Date: 06/23/2025
By: *Manuel Perez*
Miami-Dade Product Control



Sealed: 11/25/2020

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 (S.M.I.)

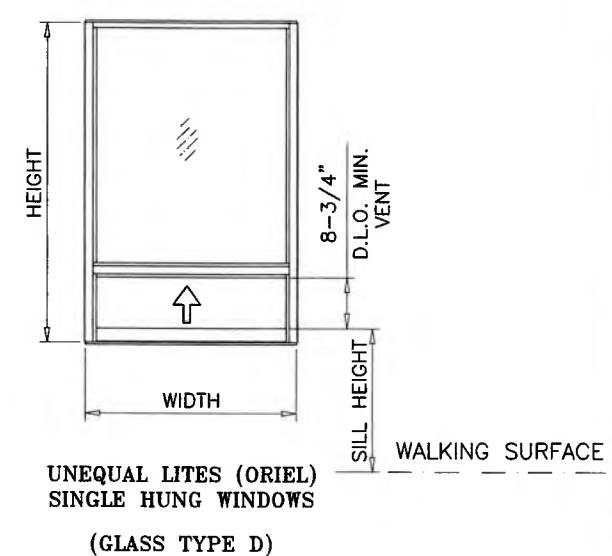
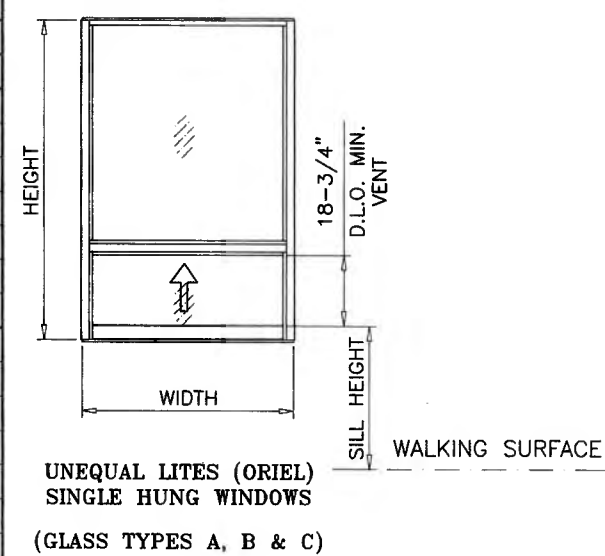
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
F	06.07.10		NO CHANGE THIS SHEET
G	03.05.12		NO CHANGE THIS SHEET
H	04.08.15		UPDATED TO 2014 FBC
I	02.22.18		UPDATED TO 2017 FBC
J	11.20.20		UPDATED TO 2020 FBC

date: 12-11-03	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
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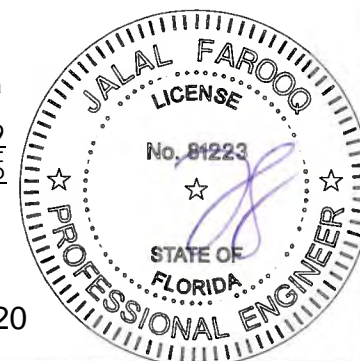
drawing no.
W03-111
sheet 3 of 10

UNEQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF													
WINDOW DIMS.		3/8" MAX. SHIMS						1/4" MAX. SHIMS					
		GLASS TYPE 'A' & 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A' & 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	48"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
48"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
54"		81.9	110.5	81.9	110.5	93.7	121.8	-	-	-	-	-	-
60"		58.7	79.3	58.7	79.3	66.7	86.7	-	-	-	-	-	-
66"		43.6	58.9	43.6	58.9	49.2	64.0	-	-	-	-	-	-
72"		33.3	45.0	33.3	45.0	37.4	48.6	-	-	-	-	-	-
36"	54"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
48"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
54"		74.9	101.1	74.9	101.1	87.9	114.3	-	-	-	-	-	-
60"		53.4	72.1	53.4	72.1	61.9	80.4	-	-	-	-	-	-
66"		39.5	53.3	39.5	53.3	-	-	-	-	-	-	-	-
72"		30.1	40.6	-	-	-	-	-	-	-	-	-	-
36"	60"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
48"		100.0	130.0	103.1	139.2	100.0	130.0	-	-	-	-	-	-
54"		70.1	94.7	70.1	94.7	84.4	109.7	-	-	-	-	-	-
60"		49.6	67.0	49.6	67.0	-	-	-	-	-	-	-	-
66"		36.5	49.3	-	-	-	-	-	-	-	-	-	-
72"		27.7	37.3	-	-	-	-	-	-	-	-	-	-
36"	66"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
48"		100.0	130.0	100.6	135.9	100.0	130.0	-	-	-	-	-	-
54"		67.1	90.5	67.1	90.5	-	-	-	-	-	-	-	-
60"		47.0	63.5	-	-	-	-	-	-	-	-	-	-
66"		34.3	46.3	-	-	-	-	-	-	-	-	-	-
72"		25.9	34.9	-	-	-	-	-	-	-	-	-	-
36"	72"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
48"		100.0	130.0	100.0	135.0	100.0	130.0	-	-	-	-	-	-
54"		65.4	88.2	-	-	-	-	-	-	-	-	-	-
60"		45.3	61.1	-	-	-	-	-	-	-	-	-	-
66"		32.8	44.2	-	-	-	-	-	-	-	-	-	-
36"	78"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
48"		100.0	128.4	100.0	128.4	-	-	100.0	130.0	100.0	135.0	-	-
54"		64.9	87.6	-	-	-	-	-	-	-	-	-	-
60"		44.3	59.8	-	-	-	-	-	-	-	-	-	-
36"	84"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
48"		100.0	130.0	-	-	-	-	-	-	-	-	-	-
54"		64.9	87.6	-	-	-	-	-	-	-	-	-	-
36"	89-1/4"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	-	-	100.0	129.1	-	-	-	-	100.0	130.0
48"		100.0	120.8	-	-	-	-	100.0	130.0	-	-	-	-
36"	90"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	-	-	100.0	127.8	-	-	-	-	100.0	130.0
48"		100.0	119.5	-	-	-	-	100.0	130.0	-	-	-	-
36"	96"	100.0	130.0	106.7	140.0	100.0	130.0	-	-	-	-	-	-
42"		100.0	130.0	-	-	100.0	130.0	-	-	-	-	-	-
48"		100.0	130.0	-	-	-	-	-	-	-	-	-	-



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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1202.09
Expiration Date: 06/23/2025
By: *Manuel Perez*
Miami-Dade Product Control



Sealed: 11/25/2020

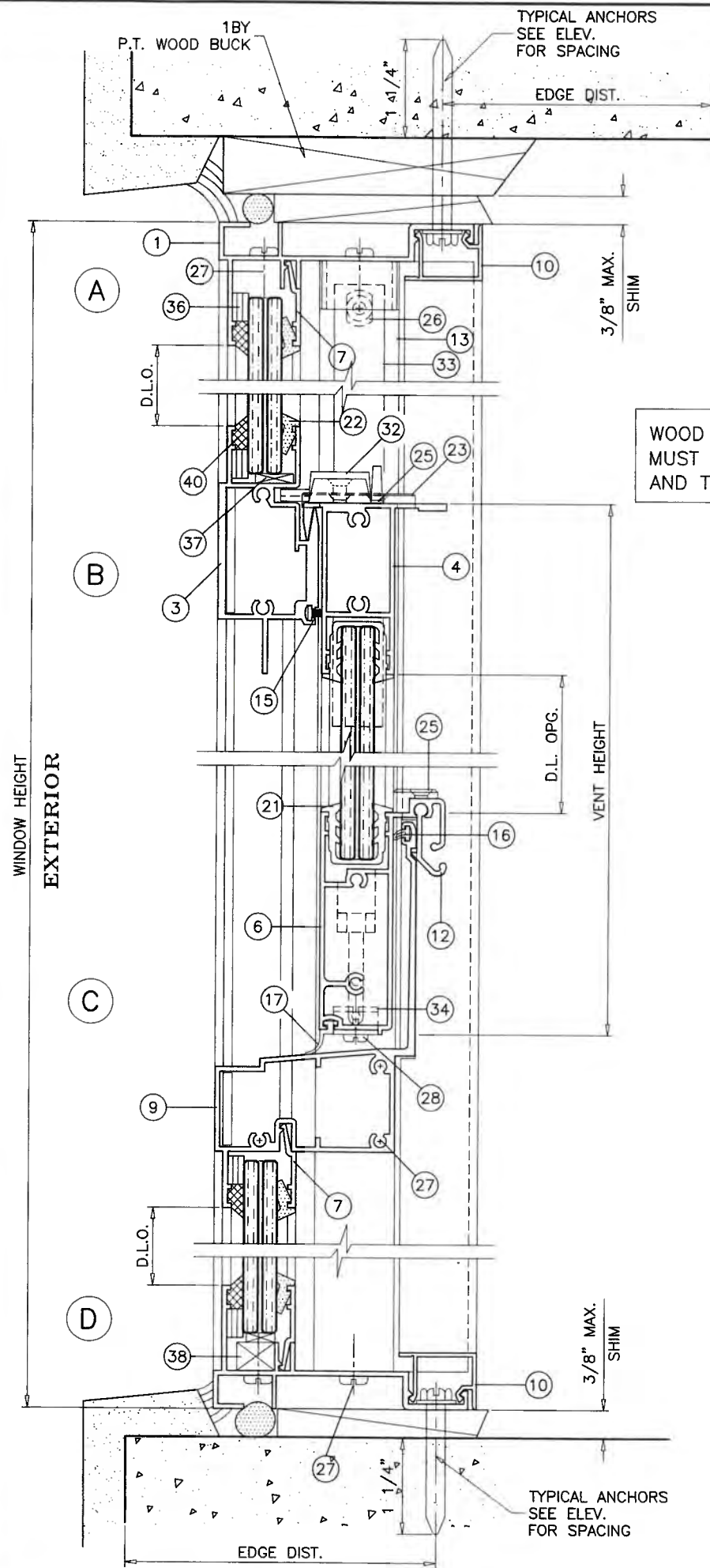
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL W03-111RC

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

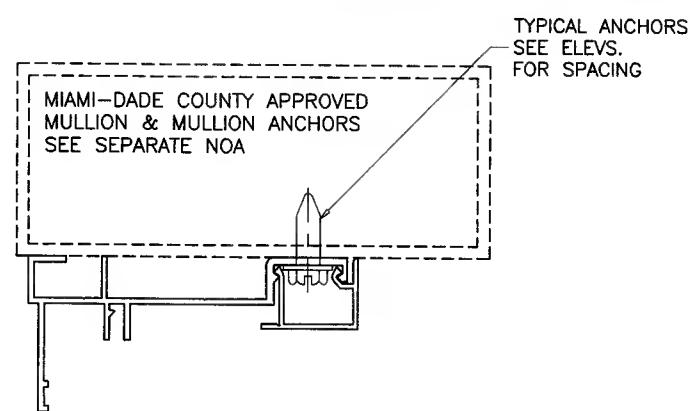
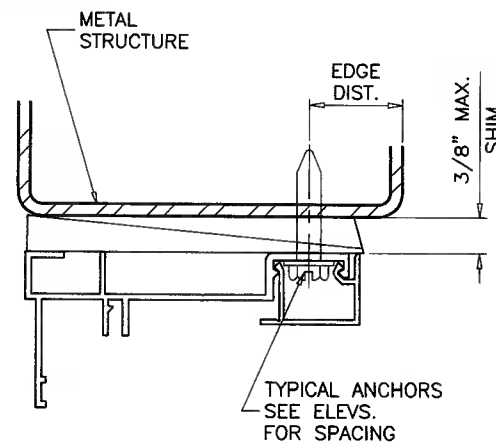
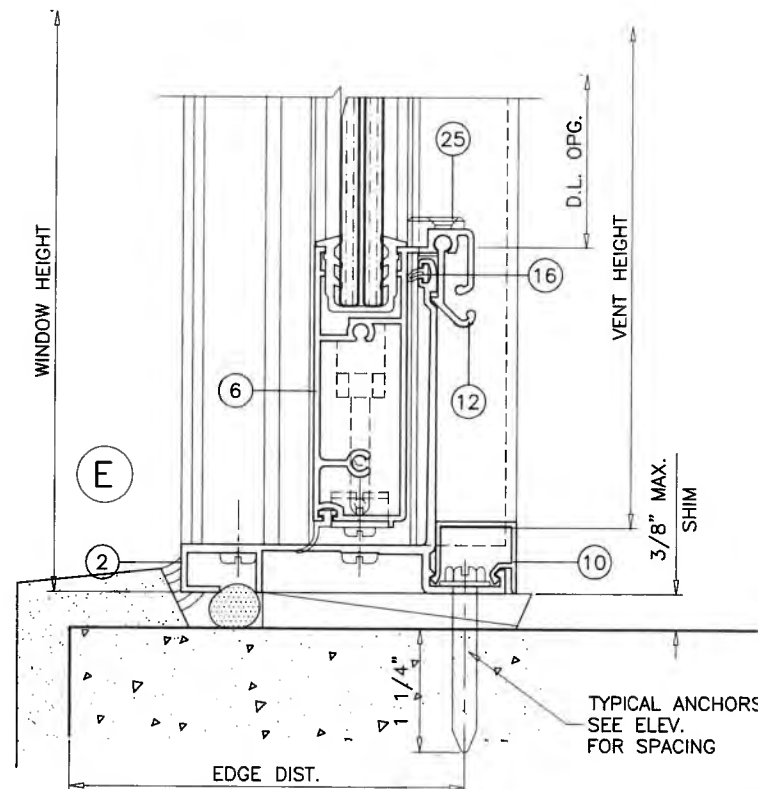
no.	date	by	description
F	06.07.10		NO CHANGE THIS SHEET
G	03.05.12		NO CHANGE THIS SHEET
H	04.08.15		UPDATED TO 2014 FBC
I	02.22.18		UPDATED TO 2017 FBC
J	11.20.20		UPDATED TO 2020 FBC

date: 12-11-03	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
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drawing no. W03-111	sheet 4 of 10
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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)
 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)
 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)
 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. (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.

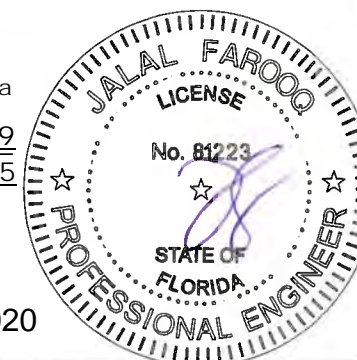
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 1500 PSI MIN.

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH DOWSIL 795 SEALANT.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 20-1202.09
 Expiration Date: 06/23/2025
 By: *Manuel Perez*
 Miami-Dade Product Control

Sealed: 11/25/2020



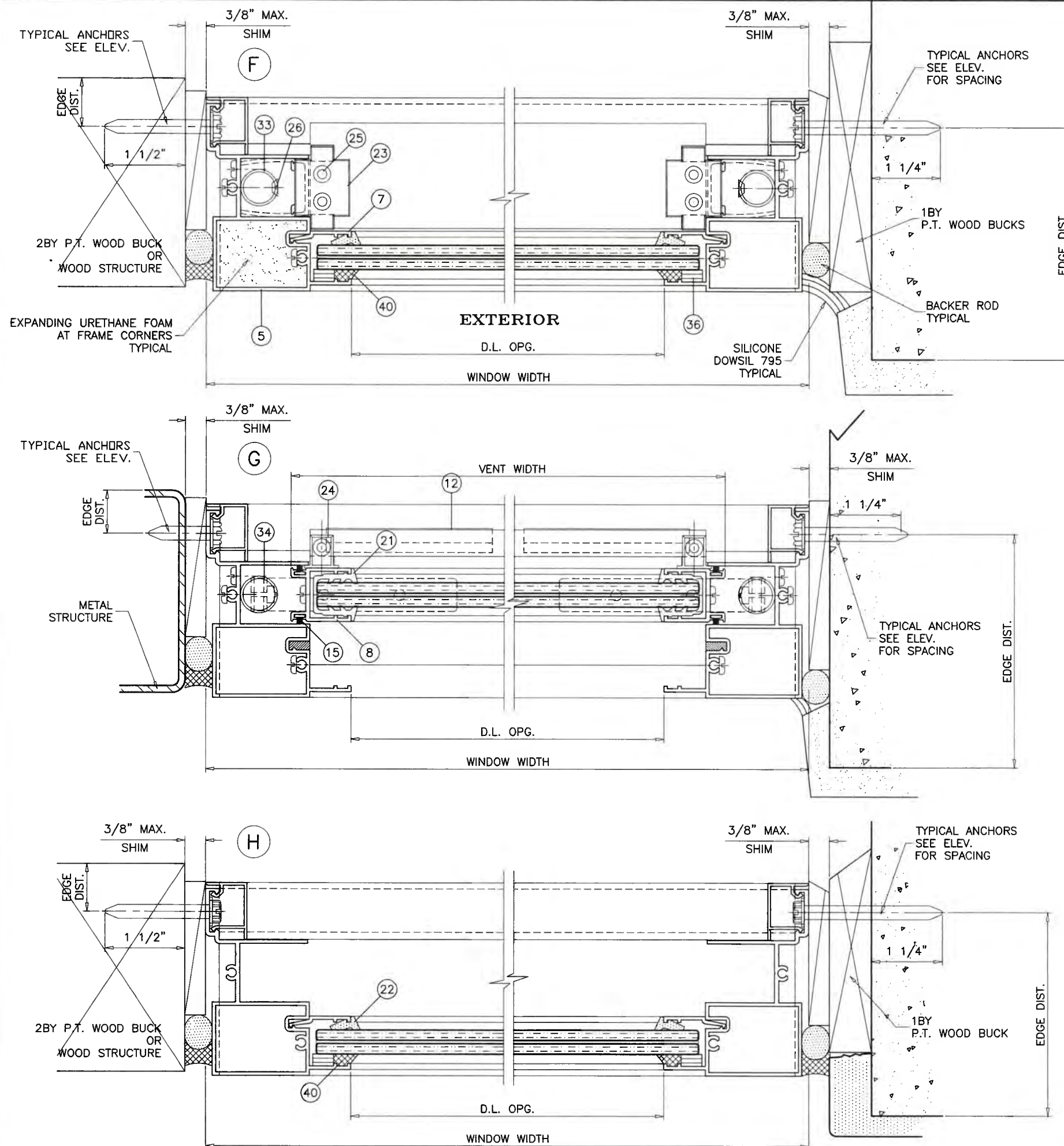
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 (C.A.N. 3538)

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

revisions:	no	date	by	description
	F	06.07.10	REV. PER BCCO	COMMENTS
	G	03.05.12	NO CHANGE	THIS SHEET
	H	04.08.15	UPDATED TO	2014 FBC
	I	02.22.18	UPDATED TO	2017 FBC
	J	11.20.20	UPDATED TO	2020 FBC

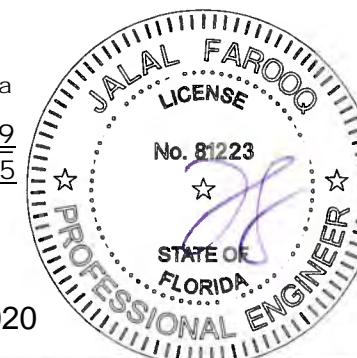
date: 12-11-03
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W03-111
 sheet 5 of 10



PRODUCT REVISED
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Building Code
NOA-No. 20-1202.09
Expiration Date: 06/23/2025
By: *Manuel Perez*
Miami-Dade Product Control

Sealed: 11/25/2020



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-111RC

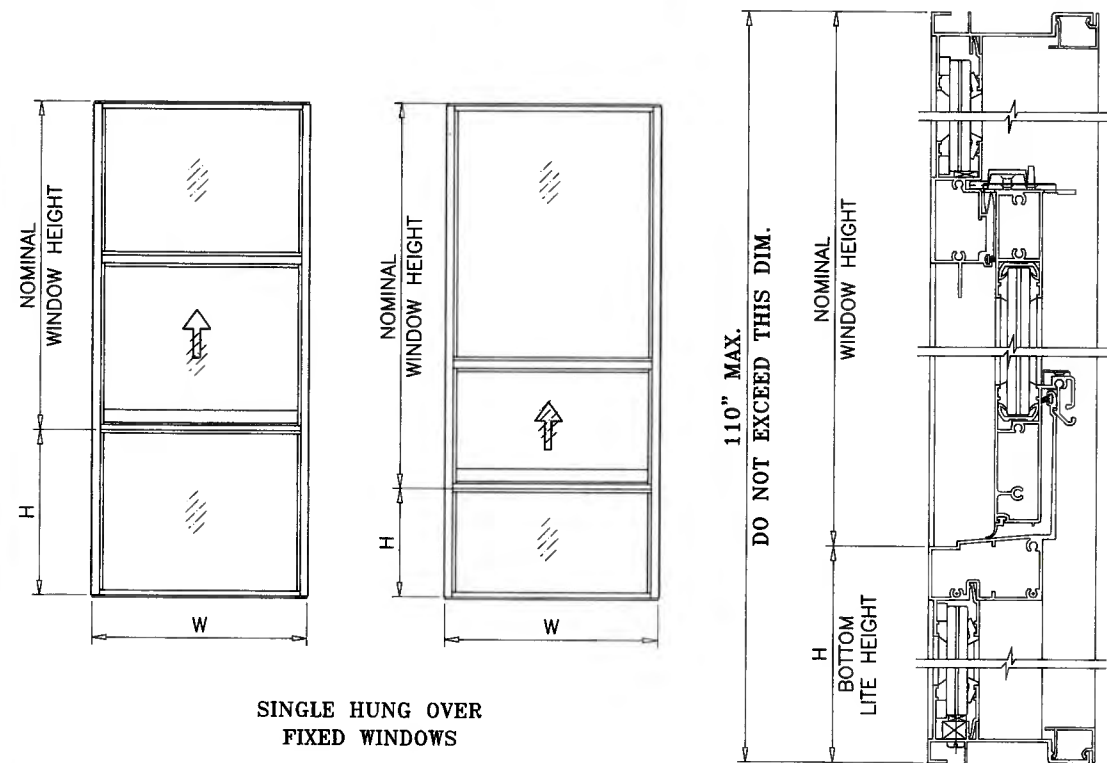
SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
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no	date	by	description
F	06.07.10	REV. PER BCCO	COMMENTS
G	03.05.12	NO CHANGE	THIS SHEET
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J	11.20.20	UPDATED TO	2020 FBC

date: 12-11-03
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W03-111
sheet 6 of 10

WINDOWALL BOTTOM LITE CAPACITY			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		GLASS TYPE 'A' 'B' 'C' & 'D'	
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
36"		100.0	130.0



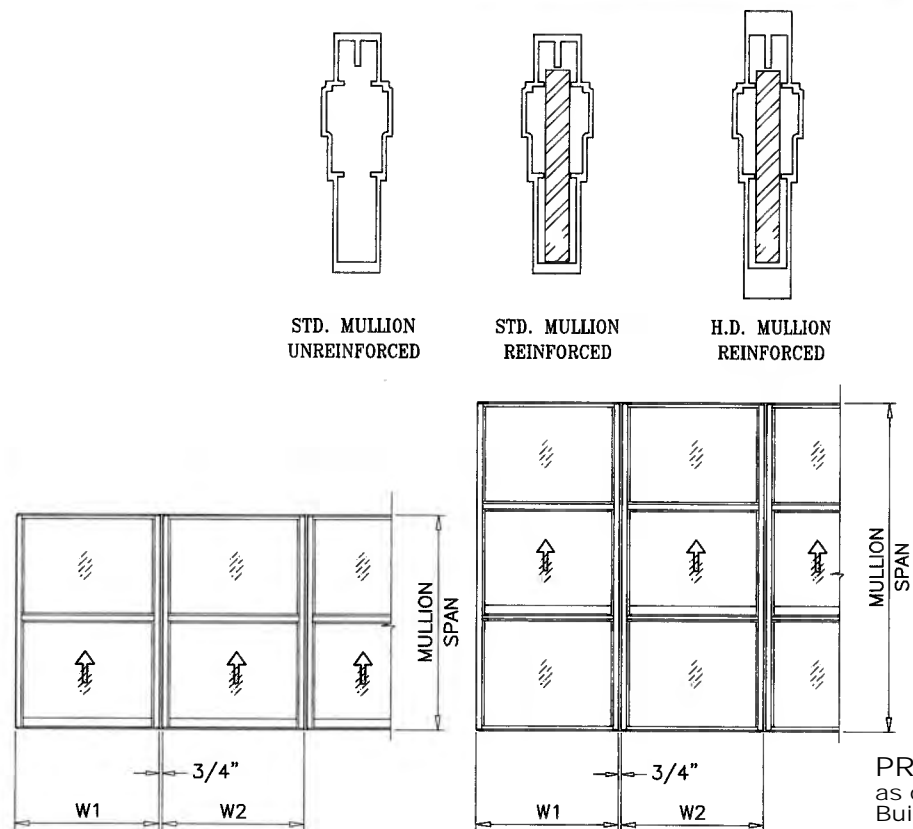
REFER TO SHEETS 3 & 4 TO OBTAIN CAPACITY OF WINDOW PORTION FOR CONFIGURATION/GLASS USED.

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.

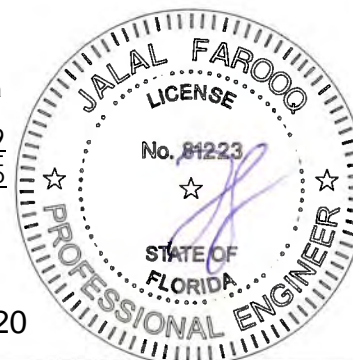
MULLION CAPACITY CHART - PSF			
WINDOW DIMS.		STD. MULLION UNREINFORCED	
WIDTH (W)	MULL SPAN	EXT.(+)	INT.(-)
36"	48"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"		100.0	130.0
66"		100.0	130.0
72"		100.0	130.0
36"	54"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0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



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

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
66"		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
66"		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
66"		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
66"		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
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
66"		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
48"		99.9	99.9	100.0	130.0

PRODUCT REVISED
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By: *Manuel Perez*
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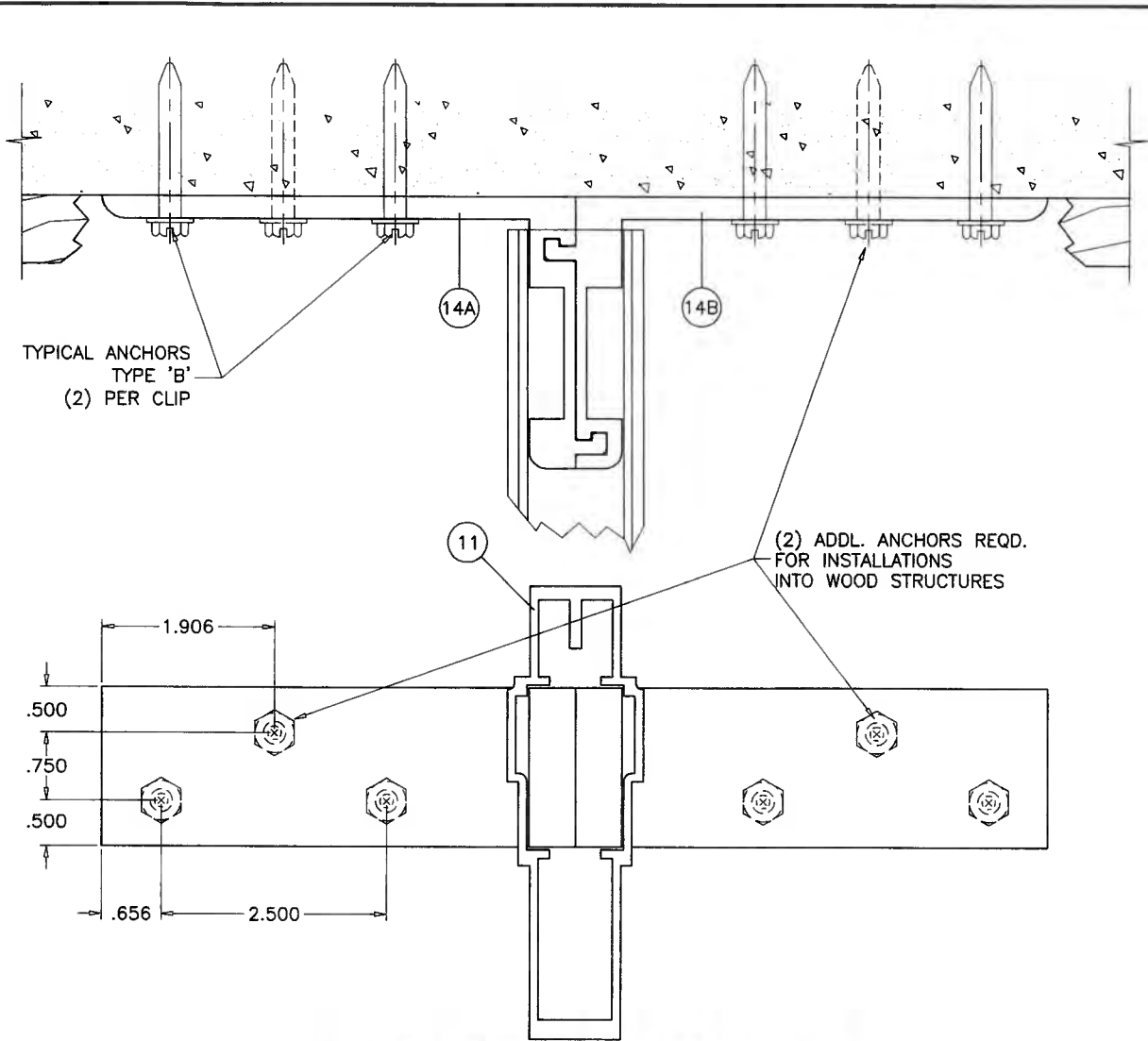
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G	03.05.12		NO CHANGE THIS SHEET
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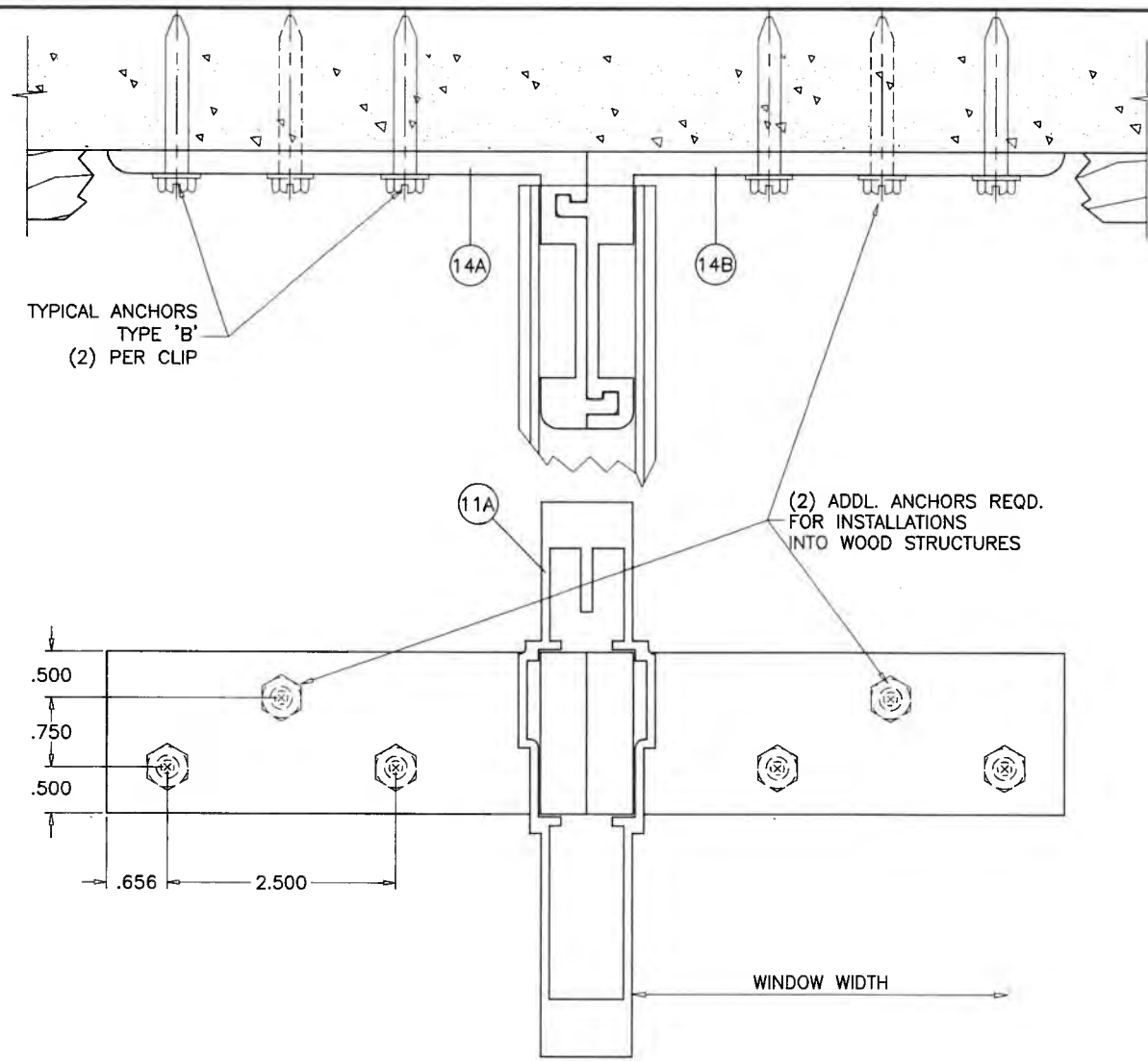
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chk. by:

drawing no.
W03-111
sheet 7 of 10

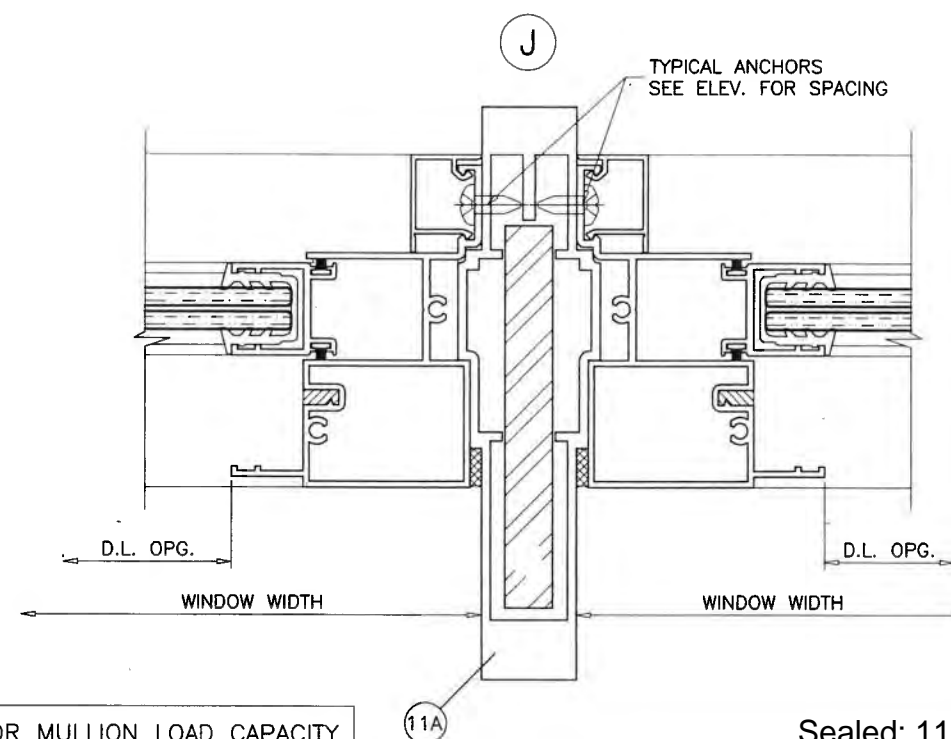
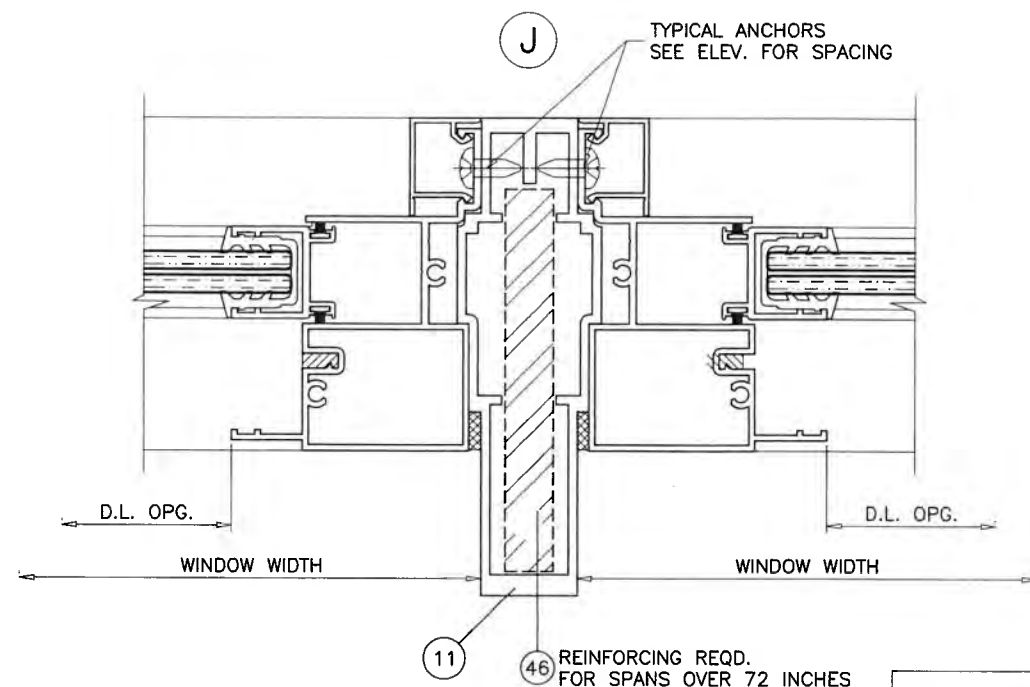
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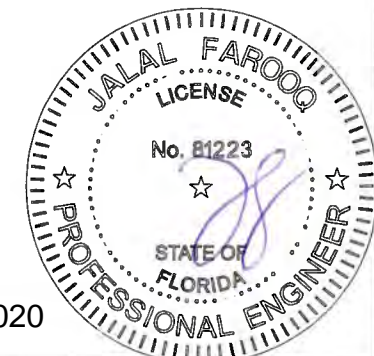
MULLION CONNECTION AT HEAD & SILL
OPTION 1



MULLION CONNECTION AT HEAD & SILL
OPTION 2



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as complying with the Florida
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By: *Manuel Perez*
Miami-Dade Product Control



SEE CHARTS ON SHEET 6 FOR MULLION LOAD CAPACITY

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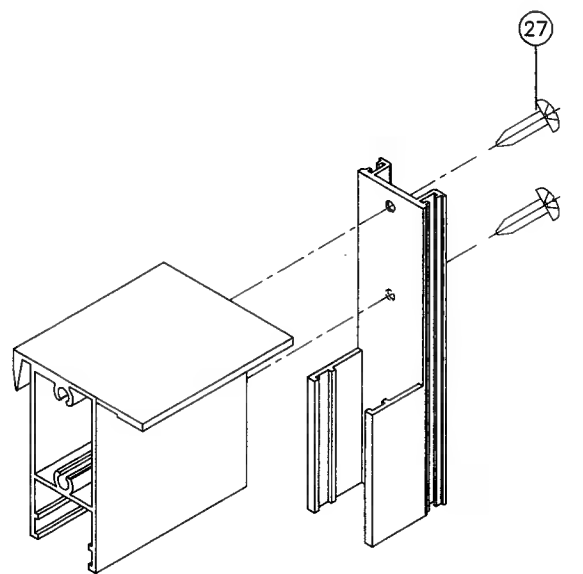
afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-111RC

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TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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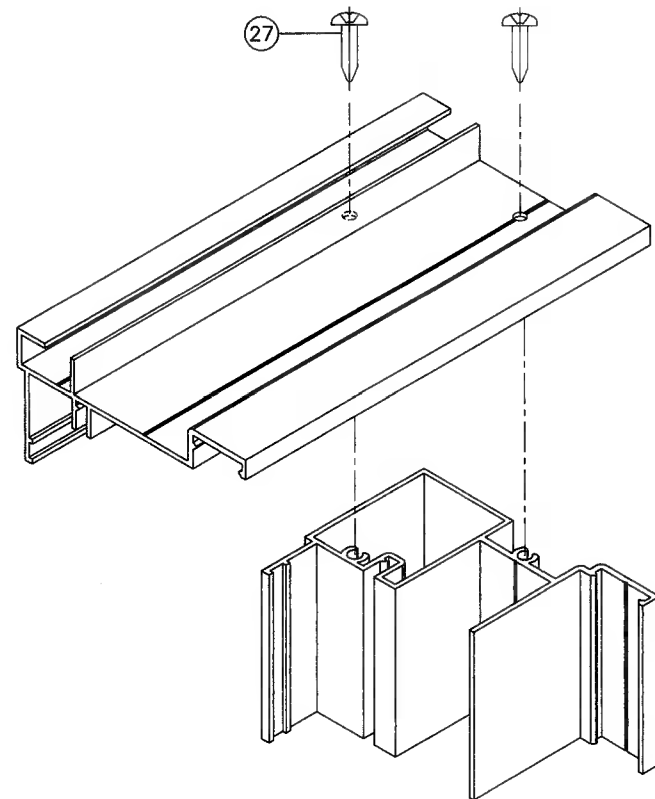
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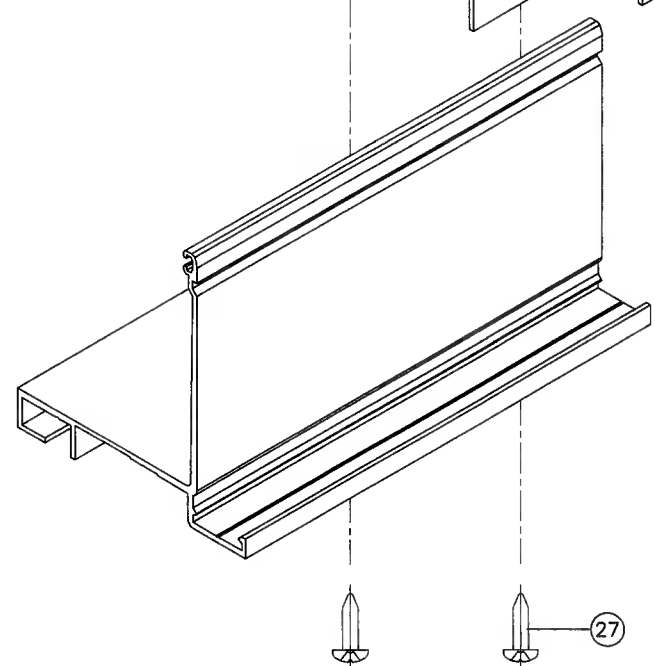
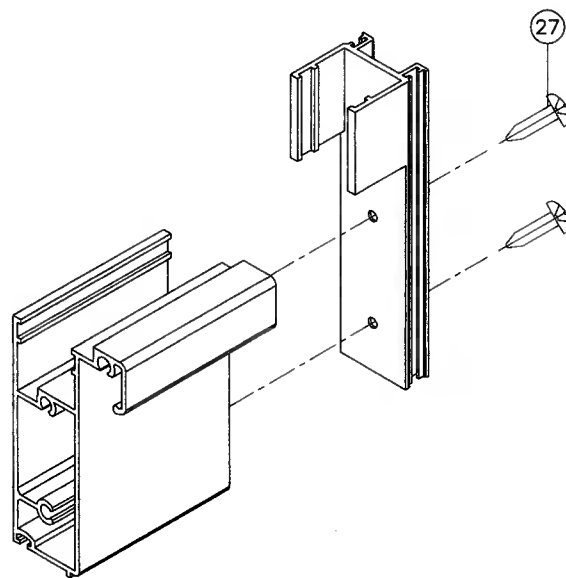
drawing no.
W03-111
sheet 8 of 10



VENT CORNER DETAIL

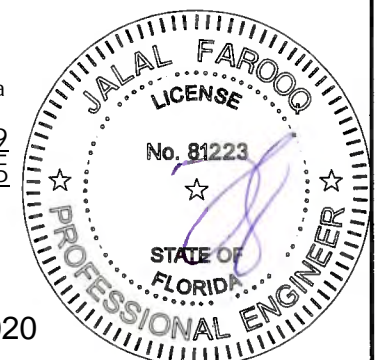


FRAME CORNERS DETAIL



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	-	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-006	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-009	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.	W'STRIPPING GASKET (DUROMETER 65 SHORE A)	VINYL	SILL & SILL MEETING RAIL
17	V-048	AS REQD.	W'STRIPPING GASKET (DUROMETER 60±5 SHORE A)	NEOPRENE	BOTTOM OF SASH VENT
21	V-052	-	GLAZING GASKET (DUROMETER 75 SHORE A)	VINYL	-
21A	V-049	-	GLAZING GASKET (DUROMETER 75 SHORE A)	VINYL	-
22	V-053	-	GLAZING WEDGE (DUROMETER 70±5 SHORE A)	VINYL	-
23	P-012	2/ VENT	VENT TOP GUIDE PLASTIC M&M (ROCKWELL R 110)	NYLON	TOP OF SASH VENT
24	P-013	2/ VENT	VENT BOTTOM GUIDE PLASTIC M&M (ROCKWELL R 110)	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
29	-	-	-	-	-
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	-	-
36	-	-	1/4" X 1/2" FOAM TAPE SINGLE FACE	-	-
37	-	-	1/8" X 1/2" X 4" LG. SETTING BLOCK	NEOPRENE	DUROMETER 85±5 SHORE A
38	-	-	3/8" X 1/2" X 4" LG. SETTING BLOCK	NEOPRENE	DUROMETER 85±5 SHORE A
40	DC-795	-	GLAZING COMPOUND	SILICONE	-
42	-	-	-	-	-
46	-	AS REQD.	1/2" X 4" X 104" LG. STEEL.	-	AT MULLION

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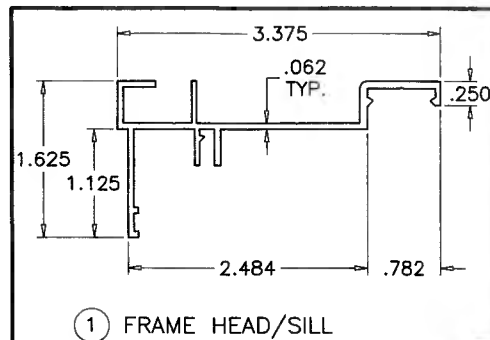
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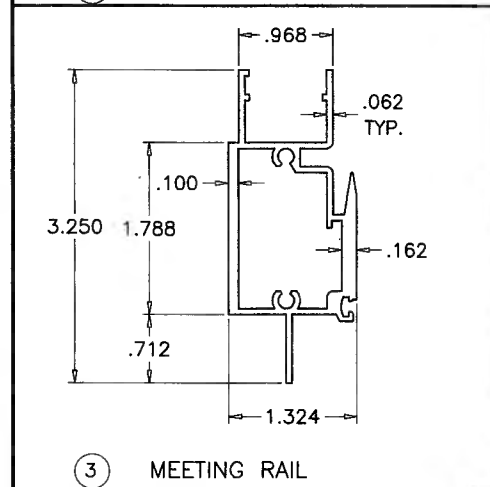
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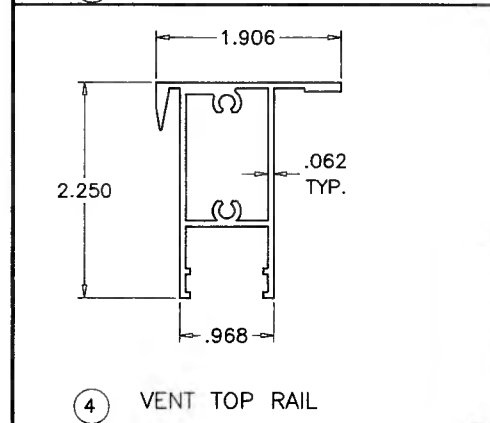
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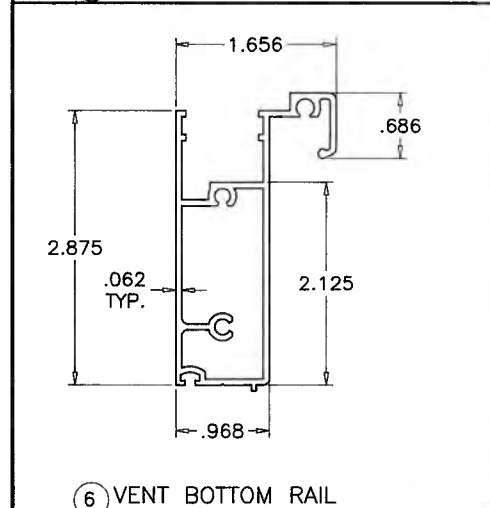
1 FRAME HEAD/SILL



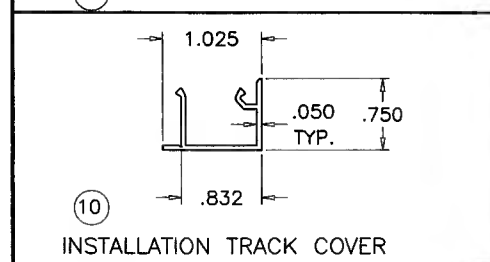
3 MEETING RAIL



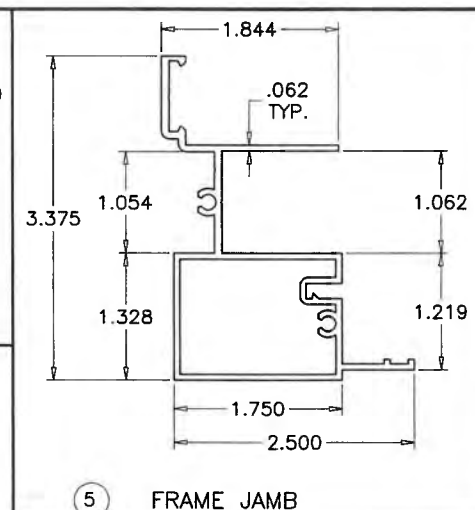
4 VENT TOP RAIL



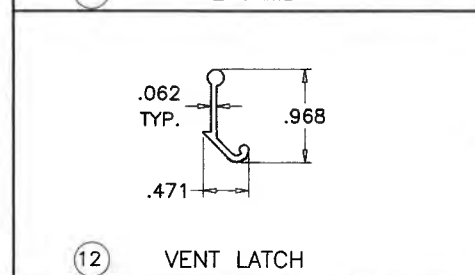
6 VENT BOTTOM RAIL



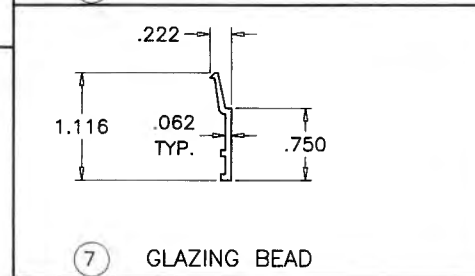
10 INSTALLATION TRACK COVER



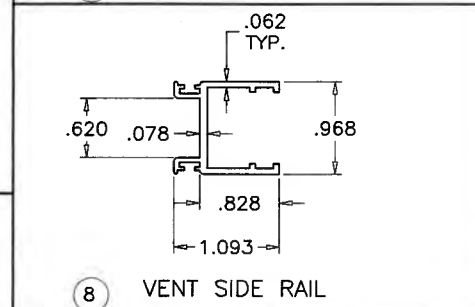
5 FRAME JAMB



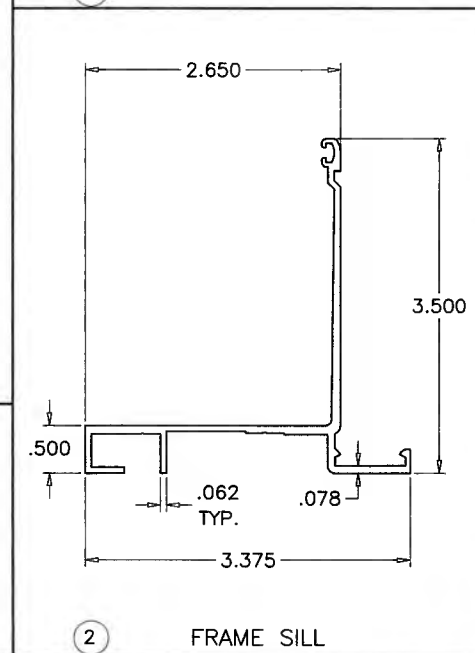
12 VENT LATCH



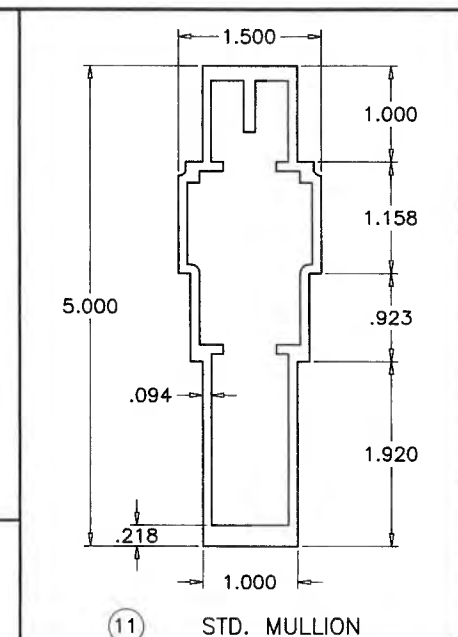
7 GLAZING BEAD



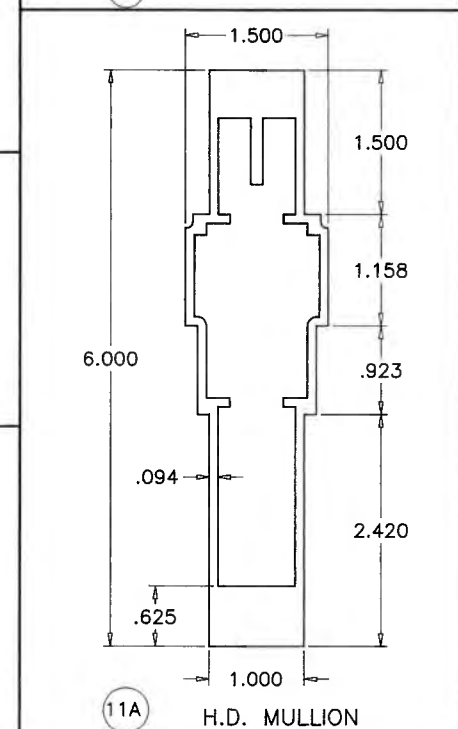
8 VENT SIDE RAIL



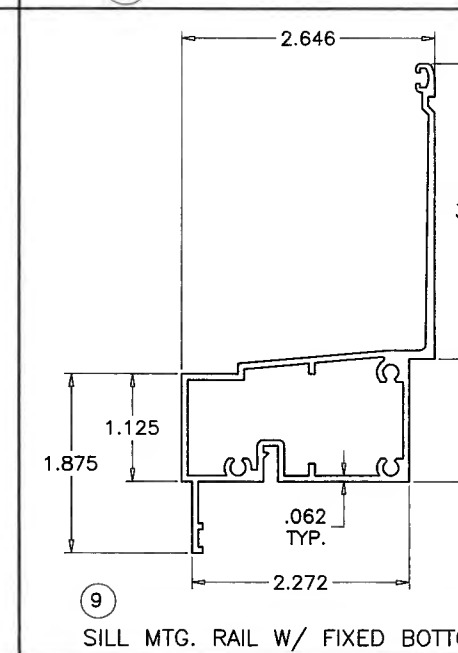
2 FRAME SILL



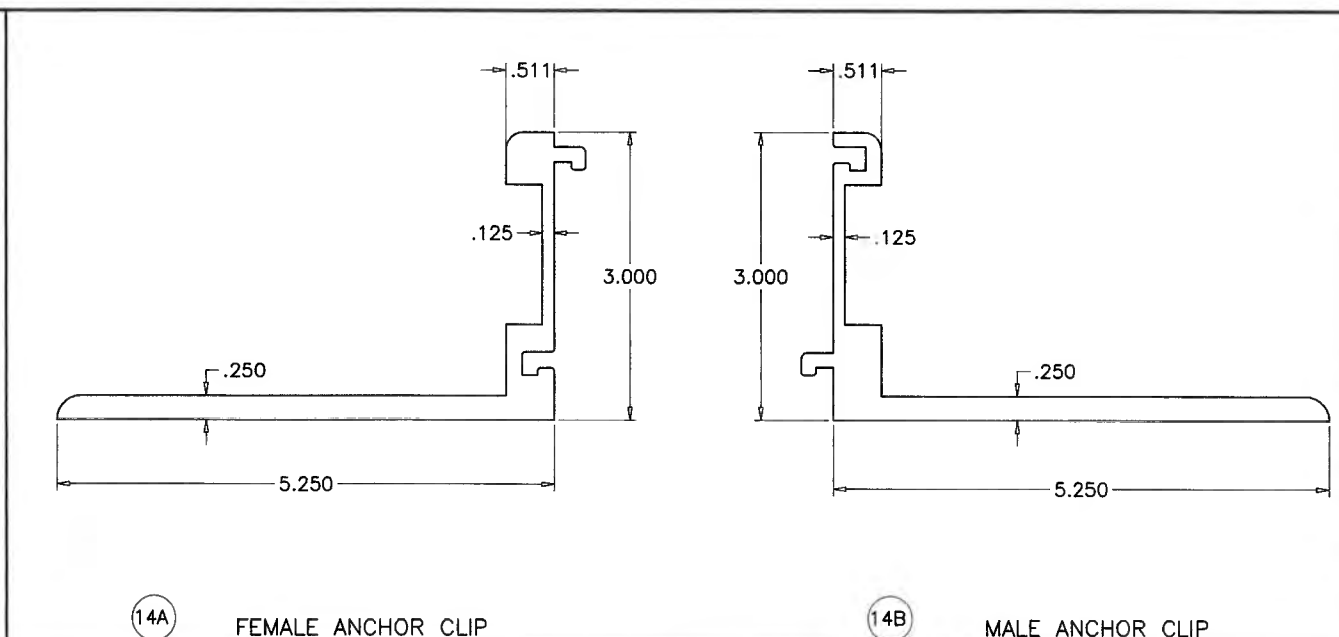
11 STD. MULLION



11A H.D. MULLION



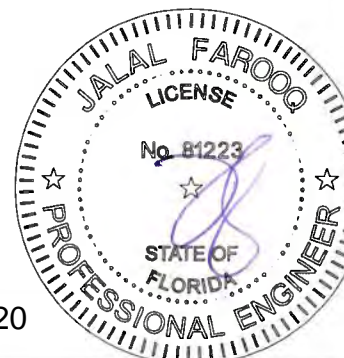
9 SILL MTG. RAIL W/ FIXED BOTTOM



14A FEMALE ANCHOR CLIP

14B MALE ANCHOR CLIP

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